

SAP Ariba

PUBLIC

Document Version: 2611_SP 0028 – 2026-11

SAP Integration Suite, Managed Gateway Configuration Guide

For buyers

© 2026 SAP SE or an SAP affiliate company. All rights reserved.

SAP

Content

SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Renamed as SAP Integration Suite, Managed Gateway. 9

SAP Integration Suite, Managed Gateway Configuration Guide. 10

Introduction. 11

Supported SAP Ariba Solutions. 12

Certification of SAP Integration Suite, Managed Gateway with SAP S/4HANA 2021. 13

Certification of SAP Integration Suite, Managed Gateway for SAP S/4HANA 2022. 14

Certification of SAP Integration Suite, Managed Gateway for SAP S/4HANA 2023. 15

Certification of SAP Integration Suite, Managed Gateway for SAP S/4HANA 2025. 16

High-Level Steps About Setting Up SAP Integration Suite, Managed Gateway 17

Overview of Integrating SAP ERP or SAP S/4HANA with SAP Ariba Solutions Using SAP Integration Suite, Managed Gateway. 20

Integrating Using a Middleware. 23

Supported Systems. 23

SAP ERP and SAP S/4HANA Systems. 23

Transport Layer Security. 24

SAP Process Integration Versions. 24

Add-On for SAP ERP and SAP S/4HANA 25

Software Components. 25

Supported Languages. 26

Setting Up API-Based Connections for Business Processes. 26

Configuring General Settings for Transaction Documents. 28

SAP Business Network 28

General Settings for SAP Business Network 28

SAP Ariba Procurement Solutions. 47

General Settings for SAP Ariba Procurement Solutions. 47

SAP Ariba Strategic Sourcing Suite 52

General Settings for SAP Ariba Strategic Sourcing Suite 52

Working with Master Data. 58

Common Settings to Import Master Data for All SAP Ariba Solutions. 58

Configuring External Commands for Operating System. 59

Configuring Ariba Incremental Extract Event. 61

Configuring Ariba Master Data Incremental Field Restrictions. 62

Configuring Ariba User HR Event Linkage. 63
Configuring Connection Parameters. 65
Maintaining System ID for Master Data. 66
Maintaining Date and Time Stamp for Master Data. 66
Importing Bill of Materials from SAP ERP to SAP Ariba Sourcing. 67
Importing Bill of Materials from SAP ERP or SAP S/4HANA to SAP Business Network 70
Maintaining User Profiles for User Master Data. 74
Maintaining Field Map for Master Data and Catalog Upload Request. 75
Scheduling a Job for Master Data Export. 76
Implementing BAdI for Master Data Export. 76
Exporting the Change Master to SAP Ariba. 79
Scheduling a Job for the Change Master. 80
Implementing BAdI for the Change Master. 80
Resending Master Data or Catalog Upload Request. 81
Maintaining Logical File Path for Master Data. 82
Importing Master Data for SAP Ariba Procurement Solutions 84
Maintaining Parameters for SAP Ariba Procurement Solutions 85
Maintaining Filters for SAP Ariba Procurement Solutions 91
Importing Master Data from SAP ERP to SAP Ariba Procurement Solutions 113
Maintaining Parameters to Import Payment Terms Master Data. 115
Importing Master Data for Catalogs. 116
Maintaining Parameters for Catalog Upload Requests. 120
Implementing BAdI for Catalog Upload Request. 123
Scheduling the Job for Catalog Upload Requests. 124
Monitoring the Status of Uploaded Catalog Files. 124
Creating a Dummy Asset Value. 125
Implementing BAdI for the Input Tax Code and the Withholding Tax Code Master Data Export. 125
Maintaining the Mapping of the Input Tax Code Details in SAP with the Relevant Tax Types in SAP Ariba. 126
Enhancing the Output Structures to Send Additional Input and Withholding Tax Code Information 127
Importing Master Data for SAP Ariba Sourcing and SAP Ariba Contracts. 128
Filters for SAP Ariba Sourcing and SAP Ariba Contracts. 128
Parameters for SAP Ariba Sourcing and SAP Ariba Contracts. 132
Maintaining the Mapping of Ariba Condition Types to SAP Condition Types for Purchase Info Records. 137
Importing Master Data from SAP ERP to SAP Ariba Sourcing and SAP Ariba Contracts 137
Implementing the BAdI for Purchase Info Records. 139
Maintaining Field Map for Master Data in SAP Ariba Sourcing and SAP Ariba Contracts. 140
Integrating SAP Retail with SAP Ariba Strategic Sourcing Suite. 141
Importing Master Data for More than One SAP Ariba Solution. 171
Maintaining Parameters. 171

Maintaining Filters. . . . 173
Configuring Supplier Data Integration with SAP Integration Suite, managed gateway 177
Configuring Supplier Data Integration. 177
Integration to Support Master Data Native Integration. . . . 205
Configuring End-Points to Integrate with MDNI. 206
Exporting Master Data to MDNI. 207
Configuring the Filter for Incremental Export of Master Data. . . . 208
Implementing BAdIs for MDNI. . . . 209
Configuring Master Data Native Integration Incremental Extract Events. 210
Configuring Master Data Native Integration Incremental Field Restrictions. 211
Configuring Ariba Event Linkages. 213
Configuring Ariba User HR Event Linkage. . . . 215
Maintaining User Profiles for User Master Data. . . . 217
Configuring the Interface to Export Product Master from SAP ERP to MDNI. . . . 217
Maintaining Parameters for Exporting Product Master to Master Data Native Integration. . . . 218
Maintaining Timestamp for Exporting Incremental Loads of Product Master Data. 219
Exporting Product Master from SAP ERP to MDNI. 220
Scheduling a Job for Product Master Export Using Master Data Native Integration. 222

Configuring Supported Transactions. . . . 223
Configuration of Transactions Supported by SAP Business Network. . . . 223
Outbound Transactions. . . . 223
Inbound Transactions. 334
Quality Management. . . . 379
Parameter Persistence for Supported SAP Business Network Transactions. 426
Configuration of Transactions Supported by SAP Ariba Procurement solutions 426
Contract. 427
ERP-Initiated Purchase Requisition. . . . 443
Work Order-Based Requisitions. 456
Purchase Order. 458
Advance Payment. . . . 470
Advance Payment Remittance. 471
Goods Receipt. 476
Export of Goods Receipts. . . . 478
Service Entry Sheet. 484
ERP-Initiated Service Entry Sheets. . . . 491
Invoice. . . . 496
Sending the Status of Canceled Invoices from the ERP System. . . . 499
Non-PO (FI) Invoice. 505
Payment Remittance. . . . 510
Stock. . . . 515
Derive Accounting Export. 527

Account Assignment Category N (Network). 528
Configuration of Transactions Supported by SAP Ariba Strategic Sourcing Suite. 534
Transactions for SAP Ariba Strategic Sourcing Suite. 535
Integration Support for SAP Ariba Spend Analysis. 548

Cross References Setup on SAP Integration Suite, Managed Gateway 557
Setting Up Cross References for SAP Business Network 557
Setting Up Cross References for SAP Ariba Quote Automation with SAP Business Network 564
Setting Up Cross-Reference Parameters for the FIInvoiceDetailRequest Document Type in SAP Integration Suite, Managed Gateway 566
Defining Values in the Lookup Table. 567
Defining UOM Cross-Reference. 568
Setting Up Cross References for SAP Ariba Procurement Solutions 569
Setting Up Cross-References for Stock Reservation. 571
Defining Values in the Lookup Table. 572
Assigning Realm ID to Your Projects. 573
Setting Up Cross References for SAP Ariba Sourcing and SAP Ariba Contracts. 574
Setting Up Cross References for QuoteRequest. 574
Setting Up Cross References for QuoteMessage. 575
Setting Up Cross References for Contracts. 581
Setting Up Cross References for Scheduling Agreements. 586
Setting Up Cross References for Integrating Retail Master Data. 587
Setting Up Fields in the Lookup Table. 588
Setting Up Cross Reference for Direct Integration to Meet Data Residency Requirements 593
Setting Up Cross References for Service Requisitions and Service Orders. 594

Customization. 596
Customization for Supported SAP Business Network Transactions. 596
Implementing BAdI for Supported Transactions. 597
Implementing the BAdI for Quality Notifications. 607
Customization for SAP Ariba Procurement Solutions 608
Implementing BAdI for Supported Transactions in SAP Ariba Procurement Solutions 608
Customization for SAP Ariba Strategic Sourcing Suite. 614
Implementing the BAdI for Contracts from SAP Ariba Contracts in SAP EHP3 and Lower. 614
Implementing the BAdI for Contracts from SAP Ariba Contracts in SAP EHP4 and Higher. 615
Implementing the BAdI for Purchase Orders from SAP Ariba Sourcing. 616
Implementing the BAdI to Customize Master Data. 617
Implementing the BAdI to Customize Material Master Data. 618
Implementing the BAdI for Scheduling Agreements from SAP Ariba Contracts. 619
About Enhancement to Extension Structures to Customize Transactions. 619

Using Test Central for Buyer Regression Testing. 627
Configuring Test Central. 627

Global Settings for Test Central. . . . 627
General Settings for SAP Business Network in Test Central. . . . 629
Configurations for Supported Transactions of SAP Business Network in Test Central. . . . 630
Managing Regression Test Suites. . . . 650
Creating a Regression Test Suite for an SAP Business Network Transaction. . . . 650
Viewing Regression Test Suites. . . . 654
Managing Test Cases in a Regression Test Suite. . . . 658
Replacing the Baseline XML File with the Target XML File for an Updated Test Case. . . . 658
Viewing the History of a Test Case Record. . . . 659
Rerunning a Test Suite from the Test Case Details View. . . . 659

Managing Custom Mappings. . . . 661
Creating Custom Mappings. . . . 661
Editing Custom Mappings. . . . 663
Adding Constants. . . . 664
Adding Target Variables. . . . 666
Adding Functions. . . . 668
Adding Conditions to Custom Mappings. . . . 673
Adding Multiple Extrinsic Nodes. . . . 679
Mapping More than One Source Element to a Target Element. . . . 680
Creating Elements with Children. . . . 680
Deleting Existing Elements. . . . 681
Creating a Target Node Set. . . . 682
Specifying the Parameters for Splitting the Lines in the Text Descriptions. . . . 682
Deploying the Mappings. . . . 683
Managing Versions of Mappings. . . . 684
Testing Custom Mappings. . . . 685
Deleting Mappings. . . . 686
Managing Custom Mappings with Custom Fields. . . . 686

Administering Custom Mapping. . . . 688
Viewing Available Custom Mapping Records. . . . 688
Managing the Deployment of Custom Mapping. . . . 688
Viewing Action Log. . . . 689
Managing Versions of Custom Mappings. . . . 690

Testing Document Transactions on SAP Integration Suite, Managed Gateway 691
Creating Test Script. . . . 691
Creating Test Script. . . . 691
Defining Master Characteristics. . . . 693
Defining Master Characteristics to Test Your Projects. . . . 693

Tracking and Validating Transaction Documents. . . . 694

About Tracking and Validating Transaction Documents. 694
Working with the Transaction Tracker. 694
Using Testing Tools. 697

Publishing a Project on SAP Integration Suite, Managed Gateway 701
About Project Deployment. 701
Scheduling and Activating the Project on the Production Environment. 701

Monitoring Messages and Troubleshooting Errors. 703
Monitoring Error Messages. 703
Monitoring Error Messages on SAP ERP. 704
Viewing IDoc Errors. 704
Viewing Errors Using the SOAMANAGER. 705
Monitoring the Inbound Retail Master Data in SAP Retail. 705
Forward Error Handling for Inbound Transactions. 706
About Forward Error Handling Support for Inbound Transactions. 706
Enabling the Forward Error Handling Feature. 708
Defining Software Components for PPO. 710
Assigning a Caller to a Business Process. 711
Defining Business Process for PPO. 713
Defining Object Types for PPO. 715
Assigning ECH to PPO. 716
Defining ECH Process Data. 718
Verifying the Configurations. 720
Configuring Error Messages. 721
Displaying and Editing Postprocessing Orders. 722
Sending Error Messages Automatically to SAP Ariba Buying and Invoicing for Specific Business Process. 724
Monitoring Transactions Using the SAP Application Interface Framework. 724
Implementing Business Configuration Set to Customize SAP Application Interface Framework 724
Customizing SAP Application Interface Framework to Generate Interface Name and Structure for IDocs to Integrate with SAP Ariba Solutions. 725
Sending the Status Update Request Messages for SAP Integration Suite, Managed Gateway Interfaces from SAP Application Interface Framework. 726
Customizing SAP Application Interface Framework to Integrate with SAP Retail Using SAP Integration Suite, Managed Gateway 726
Troubleshooting Errors. 727
SSL Handshake Overview. 727
General SSL Errors. 730

Exporting Business Data. 736

Managing Endpoints. 737

Adding an Endpoint. 738
Editing a Deployed Endpoint. 739
Deleting a Deployed Endpoint. 739

Configuring Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite. 741
Artifacts in the **Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite** Package. 743
Configuring the **Receive Transaction Documents** Artifact. 745
Configuring the **Send Transaction Documents** Artifact. 747
Configuring Artifacts for Inbound Documents. 748
Configuring Artifacts for Outbound Documents. 749

Configuring Guided Buying Capability with SAP Ariba Buying (2NV) or Guided Buying for Central Procurement with SAP Ariba Buying (3EN) Using SAP Integration Suite. 751
Configuring **SAP Ariba Buying to SAP S/4HANA Cloud Public Edition or SAP S/4HANA Combined Pass Through iFlow**. 752
Configuring **SAP S/4HANA Cloud Public Edition or SAP S/4HANA to SAP Ariba Buying Combined Pass Through iFlow**. 754
Configuring the **Purchase Requisition - Send Reservation Notification** Artifact. 755
Configuring Purchase Receipt Artifacts. 757

Configuring Lean Services. 759
Configuring the Interface Setup. 759
Configuring Lean Services Procurement Integration between SAP S/4HANA and SAP Business Network Commerce Automation using AddOn. 760
Prerequisites. 761
Restrictions. 771
Implementation. 771
Configuring Lean Services Integration between SAP S/4HANA and SAP Ariba Sourcing using SAP Integration Suite, Managed Gateway Add-On. 793
Configuring Filters for Purchase Requisition. 793

Using SAP S/4HANA Output Management Framework. 795
Creating a Service Group. 796
Editing and Activating a Service Group. 797
Maintaining Output Type and Service Group. 797
Maintaining the Output Type and Service Group Using SPRO. 799
Downloading and Editing the WSDL File. 800
Maintaining Output Parameter Determination. 805
Configuring SOAMANGER for Communication. 807

SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Renamed as SAP Integration Suite, Managed Gateway

SAP Integration Suite, managed Gateway for spend management and SAP Business Network is renamed as SAP Integration Suite, managed gateway. This change is effective from the SAP Ariba 2611 release and it does not affect the functionality of SAP Integration Suite, managed gateway for spend management and SAP Business Network. All the features of SAP Integration Suite, managed gateway for spend management and SAP Business Network continue to remain the same.

Changes to the User Interface

On the portal, the product is referred to using the new name, SAP Integration Suite, managed gateway. The new name is also used in the messages displayed to the customers within the product and in the documentation.

If you're using the add-on, the SPRO node under **Integration with Other SAP Components** is updated from **Managed Gateway for Spend&Network for Buyer** to **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer**.

> ⓘ Note
>
> Rebranding changes in the add-on are still in progress. Some labels on the UI may not reflect the rebranded name with the current release.

SAP Integration Suite, Managed Gateway Configuration Guide

This guide helps SAP Ariba buyer administrators perform the configurations required for integrating SAP ERP or SAP S/4HANA with SAP Business Network and SAP Ariba applications using SAP Integration Suite, managed gateway.

This guide applies to:

- SAP Business Network
- SAP Ariba Procurement solutions
- SAP Ariba strategic sourcing solutions

> **Note**
>
> This documentation applies to both SAP ERP and SAP S/4HANA. Unless otherwise specified, references to SAP ERP in this documentation also apply to SAP S/4HANA.

Related Guides

SAP Integration Suite, Managed Gateway Overview Guide

SAP Integration Suite, Managed Gateway Installation Guide

SAP Integration Suite, Managed Gateway Migration Guide

Introduction

You've decided to integrate your SAP ERP or SAP S/4HANA system with SAP Business Network and SAP Ariba solutions to efficiently manage supplier interactions across the spend management lifecycle. The SAP Integration Suite, managed gateway simplifies and accelerates the integration.

You need to install an add-on for SAP ERP or SAP S/4HANA system, which would allow your SAP system to communicate with SAP Business Network using SAP Integration Suite, managed gateway.

You can integrate single or multiple SAP ERP systems with SAP Business Network. The systems can be integrated directly using SAP Integration Suite, managed gateway or by using a middleware to route messages to SAP Integration Suite, managed gateway.

This guide is intended for administrators and provides configurations required on SAP ERP or SAP S/4HANA add-on, middleware, and SAP Integration Suite, managed gateway to integrate with SAP Business Network.

The following table provides information about related guides to help you with the integration:

Document	Location
SAP Integration Suite, managed gateway migration guide Contains all the details you need for migrating master data and configurations from SAP Ariba cloud integration adapter to SAP ERP or SAP S/4HANAadd-on.	SAP Integration Suite, Managed Gateway Migration Guide
SAP Integration Suite, managed gateway overview guide Contains all the details you need for an overview of the SAP Integration Suite, managed gateway solutions and supported transactions.	SAP Integration Suite, Managed Gateway Overview Guide

Supported SAP Ariba Solutions

SAP Integration Suite, managed gateway supports the following SAP Ariba cloud solutions with SAP ERP and SAP S/4HANA:

SAP Business Network	SAP Ariba Invoice Management
SAP Ariba Buying	SAP Ariba Buying and Invoicing
SAP Ariba Buying, multi-ERP edition	SAP Ariba Catalog
SAP Ariba Sourcing	SAP Ariba Contract Invoicing
SAP Ariba Collaborative Sourcing	SAP Ariba Strategic Sourcing Suite
SAP Business Network Commerce Automation	SAP Ariba Contracts
SAP Ariba Supplier Lifecycle and Performance	SAP Ariba Supplier Risk

SAP Ariba solutions and features not supported

SAP Integration Suite, managed gateway does not support the following:

- Integration with SAP Business Network
  - Payment remittance using payment integration toolkit
- Integration with SAP Ariba Procurement solutions
  - File channel transactional data integration for SAP Ariba Procurement solutions
  - Expense report
- Integration to support requisitions, blanket purchase orders, and blanket order invoices with limits
- Integration of SAP Ariba Strategic Sourcing Suite with the Fiori UI for RFQ/Quotation through SAP Integration Suite, managed gateway. If you are an existing customer using SAP S/4HANA on-premise, ensure that you do not send requests for quotations (RFQs) using the Fiori UI for RFQ/Quotation.

User interface fields not functional for features in SAP Integration Suite, managed gateway releases

- The following fields available on the user interface of SAP ERP or SAP S/4HANA system are not functional at this point of time:
  - **SAP Integration Suite, managed gateway 2008 (Q3 2020) release**
    - Support for bank statements or charge files to reconcile payments from SAP Business Network
      - The page, **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **General Settings-** > **Setup the Interface** > **Configure the Connections to Send Messages** contains the field, **Bank Charge Statements**.
      - The SAP Integration Suite, managed gateway portal contains the document type *BankChargeRequest*.
      - The page **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application**

Specific Settings > **Bank Statement or Charge File** > **Maintain Parameters for Bank Statement or Charge File** contains the field to maintain the parameter information.

- The page, **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Business Add-Ins(BAdI)** > **Bank Statement or Charge File** > **BAdIs for Bank Statement or Charge File** contains the changes for the BAdI for bank statement and charge files.

- **SAP Integration Suite, managed gateway December 2019 release**
  - The **Bank Master** integration is not supported and functional in SAP Ariba Supplier Lifecycle and Performance
    - The page **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Strategic Sourcing Suite Integration** > **General Settings-** > **Setup the Interface** contains the entries, **Bank Master** and **Update Bank Master**. The section, **Interface Setup for IDOC**, contains these fields in the list of outbound transactions.
    - The page **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Bank Master Integration** > **Assign Basic Type to Bank Master Idoc**
    - The page **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Schedule Job for Bank Master** contains the information about the background job to schedule the bank master data.
    - The page **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Bank Master Integration** > **Bank Master Distribution Model** displays the configuration for setting up the distribution model.
    - The page **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Enhancements** > **Business Add-Ins(BAdIs)** > **BAdIs for Bank Master Data** contains the changes for the bank master data BAdI.

Certification of SAP Integration Suite, Managed Gateway with SAP S/4HANA 2021

SAP Ariba certifies the integration between SAP S/4HANA 2021 and the following SAP Ariba solutions using SAP Integration Suite, managed gateway:

- SAP Business Network
- SAP Ariba Buying
- SAP Ariba Buying, multi-ERP edition
- SAP Ariba Sourcing
- SAP Ariba Collaborative Sourcing

- SAP Business Network Commerce Automation
- SAP Ariba Supplier Lifecycle and Performance
- SAP Ariba Invoice Management
- SAP Ariba Buying and Invoicing
- SAP Ariba Catalog
- SAP Ariba Contract Invoicing
- SAP Ariba Strategic Sourcing Suite
- SAP Ariba Contracts
- SAP Ariba Supply Chain Collaboration for Buyers

Starting, release SAP Integration Suite, managed gateway 2111,SAP Integration Suite, managed gateway supports integration with SAP S/4HANA 2021, using SAP Integration Suite, managed gateway add-on.

> **Note**
>
> (Optional) In some cases, when you run the events for transactions in SAP S/4HANA systems, you can face the following error, `RFC_NO_AUTHORIT` or `No RFC authorization for function module...`.
>
> This error occurs due to the missing standard SAP authorizations for events in transaction. You can resolve the error by adding the missing authorizations for the workflow user. However, SAP Ariba recommends that you apply the SAP Note 2798488 to resolve the errors.

Certification of SAP Integration Suite, Managed Gateway for SAP S/4HANA 2022

SAP Ariba certifies the integration between SAP S/4HANA 2022 and the following SAP Ariba solutions using SAP Integration Suite, managed gateway, add-on for SAP S/4HANA:

- SAP Business Network
- SAP Ariba Buying
- SAP Ariba Buying, multi-ERP edition
- SAP Ariba Sourcing
- SAP Ariba Collaborative Sourcing
- SAP Business Network Commerce Automation
- SAP Ariba Supplier Lifecycle and Performance
- SAP Ariba Invoice Management
- SAP Ariba Buying and Invoicing
- SAP Ariba Catalog
- SAP Ariba Contract Invoicing
- SAP Ariba Strategic Sourcing Suite
- SAP Ariba Contracts
- SAP Business Network for Supply Chain for Buyers

SAP Integration Suite, managed gateway, Release 2211 (Q4 2022), supports integration with SAP S/4HANA 2022, using SAP Integration Suite, managed gateway, add-on for SAP S/4HANA.

> **Note**
>
> (Optional) In some cases, when you run the events for transactions in SAP S/4HANA systems, you may encounter the error, `RFC_NO_AUTHORIT` or `No RFC authorization for function module`.
>
> This error occurs due to the missing standard SAP authorizations for events in transactions. You can resolve the error by adding the missing authorizations for the workflow user. However, SAP Ariba recommends that you apply the SAP Note 2798488 to resolve the error.

Certification of SAP Integration Suite, Managed Gateway for SAP S/4HANA 2023

SAP Ariba certifies the integration between SAP S/4HANA 2023 and the following SAP Ariba solutions using SAP Integration Suite, managed gateway, add-on for SAP S/4HANA:

- SAP Business Network
- SAP Ariba Buying
- SAP Ariba Buying, multi-ERP edition
- SAP Ariba Sourcing
- SAP Ariba Collaborative Sourcing
- SAP Business Network Commerce Automation
- SAP Ariba Supplier Lifecycle and Performance
- SAP Ariba Invoice Management
- SAP Ariba Buying and Invoicing
- SAP Ariba Catalog
- SAP Ariba Contract Invoicing
- SAP Ariba Strategic Sourcing Suite
- SAP Ariba Contracts
- SAP Business Network for Supply Chain for Buyers

SAP Integration Suite, managed gateway, Release 2311 (Q4 2023), supports integration with SAP S/4HANA 2023, using SAP Integration Suite, managed gateway, add-on for SAP S/4HANA.

(Optional) In some cases, when you run the events for transactions in SAP S/4HANA systems, you may encounter the error, `RFC_NO_AUTHORIT` or `No RFC authorization for function module`.

This error occurs due to the missing standard SAP authorizations for events in transactions. You can resolve the error by adding the missing authorizations for the workflow user. However, SAP Ariba recommends that you apply the SAP Note 2798488 to resolve the error.

Certification of SAP Integration Suite, Managed Gateway for SAP S/4HANA 2025

SAP Ariba certifies the integration between SAP S/4HANA 2025 and the following SAP Ariba solutions using SAP Integration Suite, managed gateway, add-on for SAP S/4HANA:

- SAP Business Network
- SAP Ariba Buying
- SAP Ariba Buying, multi-ERP edition
- SAP Ariba Sourcing
- SAP Ariba Collaborative Sourcing
- SAP Business Network Commerce Automation
- SAP Ariba Supplier Lifecycle and Performance
- SAP Ariba Invoice Management
- SAP Ariba Buying and Invoicing
- SAP Ariba Catalog
- SAP Ariba Contract Invoicing
- SAP Ariba Strategic Sourcing Suite
- SAP Ariba Contracts
- SAP Business Network for Supply Chain for Buyers

SAP Integration Suite, managed gateway, Release 2508 (Q3 2025, SP23), supports integration with SAP S/4HANA 2025, using SAP Integration Suite, managed gateway, add-on for SAP S/4HANA.

(Optional) In some cases, when you run the events for transactions in SAP S/4HANA systems, you may encounter the error, `RFC_NO_AUTHORIT` or `No RFC authorization for function module`.

This error occurs due to the missing standard SAP authorizations for events in transactions. You can resolve the error by adding the missing authorizations for the workflow user. However, SAP Ariba recommends that you apply the SAP Note 2798488 to resolve the error.

High-Level Steps About Setting Up SAP Integration Suite, Managed Gateway

The following steps provide an overview to setting up the SAP Integration Suite, managed gateway:

1. SAP Ariba recommends that you read the SAP Integration Suite, Managed Gateway Overview Guide for the prerequisites and limitations listed for the supported functionalities on SAP Integration Suite, managed gateway.
2. Install and set up SAP Integration Suite, managed gateway.

> ### Note
>
> Support Pack - Support Policy
>
> Starting with the SAP Ariba 2602 release, the service pack for the SAP Integration Suite, managed gateway add-on 1.0 is released four times a year: February, May, August, and November. This applies to SAP S/4HANA, SAP S/4HANA Cloud Private Edition, and SAP ECC. SAP provides support for all Add-On support packages released within the 12-month period preceding the most recent quarterly Add-On support package. Ensure that you refer to Product Availability Matrix (PAM) for information on the latest service pack.
>
> SAP will provide support for all Add-On support packages released within the 12-month period preceding the most recent quarterly Add-On support package.
>
> SAP Integration Suite, managed gateway has the following components. Each of the components has different service pack levels:
>
> | SAP ERP | SAP S/4HANA on-premise |
> |---|---|
> | ARBCI1 100 | ARBCI1 10S |
> | ARBCI2 100 | ARBCI2 10S |
> | ARBCIGR 100 | ARBCIGR 10S |
>
> You determine the current version for the support package based on the highest service pack level.
>
> SAP Ariba recommends that customers must always upgrade to the latest SP release that is available at GA (General Availability) / RTC (Released To customer). The new releases always include the new features, additional enhancements, and defect fixes and customers can benefits from them.
>
> Please see the SAP Note 2400737 (SAP Integration Suite, managed gateway Solutions for SAP: Supported SAP Product Versions) that contains additional information on the supported SAP product version.

- Download the components for SAP Integration Suite, managed gateway. If you are a new customer using SAP Integration Suite, managed gateway, see Downloading and Installing the Add-On for New Customers in SAP Integration Suite, Managed Gateway Installation Guide.
  If you are an existing customer using SAP Integration Suite, managed gateway, see Upgrade the Existing Add-On Installation for SAP Integration Suite, Managed Gateway Customers in SAP Integration Suite,

Managed Gateway Installation Guide. For more information, see Downloading and Installing the Add-On from SAP for Me in SAP Integration Suite, Managed Gateway Installation Guide

- After you install the components, configure your SAP Ariba application to access SAP Integration Suite, managed gateway. For more information, see the section on how to configure your SAP Ariba solution in SAP Integration Suite, Managed Gateway Installation Guide.
  If you have trouble signing in to SAP Integration Suite, managed gateway, have your Designated Support Contact log a service request. An SAP Ariba Support representative will follow up to complete the request.
- Define the authorizations for the SAP Ariba solutions you require. For more information, see Defining Authorizations in SAP Integration Suite, Managed Gateway Installation Guide.
- Set up the SAP Cloud Connector. See Configuring SAP Cloud Connector in SAP Integration Suite, Managed Gateway Installation Guide
- (Optional) Configure the SAP Integration Suite, managed gateway to use a middleware. See Integrating Using a Middleware.

  > **Note**
  >
  > The middleware that you're using must be compliant with the Server Name Indication (SNI) protocol. If the middleware is not SNI-compliant, you may experience errors when connecting to SAP Integration Suite, managed gateway. For more information, see KB0769369.

- Go to your SAP Ariba application and use your SAP Ariba user account to sign in to SAP Integration Suite, managed gateway . SAP Ariba does not allow you to sign in to SAP Integration Suite, managed gateway directly.
  SAP Integration Suite, managed gateway only supports the Test and Production landscapes.SAP Integration Suite, managed gateway does not support the Development (-D) landscape. As a result, you cannot connect directly from any of the SAP Ariba applications or using a network development (-D) account to SAP Integration Suite, managed gateway.
- Configure your SAP Ariba application to send and receive transaction documents from SAP Integration Suite, managed gateway. Ensure that you enable the required settings for each of the SAP Ariba applications. For more information about the prerequisites, see SAP Integration Suite, Managed Gateway Overview Guide.
- Set up the global settings to connect to the SAP Integration Suite, managed gateway. See Configuring Global Settings in SAP Integration Suite, Managed Gateway Installation Guide
- Create and set up projects on SAP Integration Suite, managed gateway. See Configuring a SAP Integration Suite, Managed Gateway Project for SAP Ariba Solutions in SAP Integration Suite, Managed Gateway Installation Guide
- Test the connection to the SAP Ariba solution.

3. Configure the time zone and its rules on your SAP ERP and SAP S/4HANA system. Use the transaction code **STZBC** to maintain the time zone and its rules. For example, maintain the time zone as **PST** and configure the time zone rules and format for it.

   > **Note**
   >
   > The **Time Zone** field supports only 3 characters.

4. Configure the SAP Integration Suite, managed gateway.
   - Configure general settings for transaction documents for the required SAP Ariba solutions. For more information, see Configuring General Settings for Transaction Documents [page 28].
   - Import master data for the required SAP Ariba solutions. For more information, see Working with Master Data [page 58].

- Configure transactions documents for the required SAP Ariba solutions. For more information, see Configuring Supported Transactions [page 223].
- Set up cross references on SAP Integration Suite, managed gateway for the required SAP Ariba solutions. For more information, see Cross References Setup on SAP Integration Suite, Managed Gateway [page 557].
- Test document transactions for the required SAP Ariba solutions. For more information, see Testing Document Transactions on SAP Integration Suite, Managed Gateway [page 691].
- Publish a project on SAP Integration Suite, managed gateway. For more information, see Publishing a Project on SAP Integration Suite, Managed Gateway [page 701].
- Manage customization for different transactions. For more information, see Customization [page 596].
- Monitor and manage errors for different transactions. For more information, see Monitoring Messages and Troubleshooting Errors [page 703].

5. If you are a customer and use multiple ERP systems, configure the end points in your buyer account on SAP Business Network. Ensure that you also specify the following POST URLs to receive the transaction documents through the POST method:
   - If you are using the Europe data center:
     - Specify `https://acig.ariba.com/http/receiveCXML` if you are using a production account.
     - Specify `https://testacig.ariba.com/http/receiveCXML` if you are using a test account.

   For more information about configuring end points on SAP Business Network, see SAP Business Network Buyer Administration Guide.
6. When you configure the system IDs for your test and production environments, specify unique system IDs for the test and production environments. Ensure that you do not specify the same system ID for both the test and production environments. SAP Integration Suite, managed gateway identifies the system ID as a unique identifier for each backend system.

   > **Note**
   >
   > - SAP Integration Suite, managed gateway only supports ASCII values. The supported ASCII values are alphabets (uppercase and lowercase), numbers (0 to 9), and special characters (<, >, ., ~, and _).
   > - A system ID can be associated with only one realm ID. If you have multiple backend systems and all the backend systems use the same integration method as a part of their connection setup, you can use custom mapping to route documents from the same realm ID to the required backend system.
   > - The system ID that you configure during project creation must match the system ID present in any documents sent from SAP ERP or SAP S/HANA to SAP Ariba solutions.

7. SAP Integration Suite, managed gateway only supports the SAP variant for integration with SAP Ariba solutions.
   SAP Ariba recommends that customers must use the SAP variant that SAP Integration Suite, managed gateway supports for a seamless and error-free integration.
8. If you are an existing buyer user using one of the following and want to use SAP Integration Suite, managed gateway, see SAP Integration Suite, Managed Gateway Migration Guide:
   - Ariba Network adapter for SAP NetWeaver for SAP Business Network
   - Ariba Network adapter for SAP NetWeaver for SAP Ariba strategic sourcing solutions
   - SAP ERP integrated for SAP Ariba Procurement solutions

Overview of Integrating SAP ERP or SAP S/4HANA with SAP Ariba Solutions Using SAP Integration Suite, Managed Gateway

To integrate SAP ERP or SAP S/4HANA with SAP Ariba solutions using SAP Integration Suite, managed gateway uses one of the following methods:

- Add-on based integration. This requires the installation of the following add-on:
  - SAP ERP:SAP Integration Suite, managed gateway, add-on for SAP ERP
  - SAP S/4HANA: SAP Integration Suite, managed gateway, add-on for SAP S/4HANA
- API-based integration. This is available using SAP S/4HANA APIs. With API-based integration, a hybrid integration scenario is also available involving both the add-on for SAP S/4HANA and the SAP S/4HANA APIs in coexistence mode.

> **Note**
>
> You can use various methods to secure data transfer from SAP Integration Suite, managed gateway to SAP ERP or SAP S/4HANA. The following are some of these methods:
>
> - SAP Cloud Platform cloud connector
> - SAP Process Integration and Process Orchestration
> - SAP Cloud Platform Integration

Add-On Based Integration

Following are the main components of the add-on based integration:

- SAP Integration Suite, managed gateway, add-on for SAP ERP: The add-on is installed on SAP ERP system. The add-on enables SAP ERP to communicate with SAP Business Network and SAP Ariba solutions through SAP Integration Suite, managed gateway.
- SAP Integration Suite, managed gateway, add-on for SAP S/4HANA: The add-on is installed on SAP S/4HANA system. The add-on enables SAP S/4HANA to communicate with SAP Business Network and SAP Ariba solutions through SAP Integration Suite, managed gateway.
- SAP Cloud Platform cloud connector (cloud connector): The cloud connector allows you to efficiently and securely transfer data between SAP Integration Suite, managed gateway and SAP ERP or SAP S/4HANA. The cloud connector is a software component to connect to cloud applications. For more details on the cloud connector, see Cloud Connector.
- SAP Integration Suite, managed gateway: The gateway allows you to map and transform the data. You can monitor the transactions between SAP ERP or SAP S/4HANA and SAP Business Network or SAP Ariba solutions.

The following table lists the steps that you must perform to integrate SAP ERP or SAP S/4HANA with SAP Business Network and SAP Ariba solutions using SAP Integration Suite, managed gateway:

Step	Environment	Description
Enable SAP Integration Suite, managed gateway	SAP Business Network or SAP Ariba solutions	Enable SAP Integration Suite, managed gateway setting on SAP Business Network and SAP Ariba solutions.
Download add-on and cloud connector	SAP ERP or SAP S/4HANA	You can download the following software from SAP Service Marketplace: • SAP Integration Suite, managed gateway, add-on for SAP ERP • SAP Integration Suite, managed gateway, add-on for SAP S/4HANA You can download SAP Cloud Platform cloud connector from SAP Development Tools page.
Install and configure cloud connector and add-on	SAP ERP or SAP S/4HANA	Install the cloud connector and the add-on for SAP ERP or SAP S/4HANA.
Configure time and time zone settings	SAP ERP or SAP S/4HANA	Configure the time, time zone setting, and formats on your SAP ERP and SAP S/4HANA system. Ensure that you have up-to-date SAP time zone settings installed in all clients. See OSS note 198411 for details about the installation and the latest content.
Configure global settings	SAP ERP or SAP S/4HANA	Maintain certificates, define RFC destination, and define port definition.
Send system details and SAP connectivity data to SAP Integration Suite, managed gateway	SAP ERP or SAP S/4HANA	Synchronize system details and SAP connectivity information with SAP Integration Suite, managed gateway.
Confirm SAP connectivity information	SAP Integration Suite, managed gateway	Create an integration project and ensure the ERP connection details are available on the settings page. If unavailable, configure the settings and create the connection.
Import master data	SAP ERP	Run the master data export program manually to import master data from SAP ERP to SAP Ariba SAP Ariba solutions.
Maintain application specific settings	SAP ERP or SAP S/4HANA	Set up the parameters for each transaction.
Specify cross-reference values	SAP Integration Suite, managed gateway	Enter the values for parameters that are mapped from SAP ERP or SAP S/4HANA.
Implement extensions and BAdIs	SAP ERP or SAP S/4HANA	Implement extensions and BAdIs for any customized transactions or parameters on SAP ERP or SAP S/4HANA.

Step	Environment	Description
Define custom mappings	SAP Integration Suite, managed gateway	To map any customized parameters on SAP ERP or SAP S/4HANA to SAP Integration Suite, managed gateway, use the Mapping Tool.
Review configuration	SAP Integration Suite, managed gateway	Double-check your project configuration before you launch it.
Test project	SAP Integration Suite, managed gateway	Create a test script for self-test and schedule the test.
Prepare for deployment	SAP Integration Suite, managed gateway	Schedule and activate the project on the production environment.

API-Based Integration

Administrators define the business subprocesses available for API-based connection, for the supported products. Currently, SAP Business Network, SAP Ariba Procurement solutions, and SAP Ariba strategic sourcing solutions as described at Integration with SAP Ariba are available for configuring subprocesses. End-users can choose which subprocesses to use for API-based connection. If no subprocesses are selected, the default connection mode uses the add-on.

Native SAP S/4HANA APIs for API-based integration to transact with SAP Ariba solutions without the need to install the add-on is available only to new customers using the SAP S/4HANA 2020 release or higher. You have the flexibility to use API-based integration where it is available. These specific Source-to-Pay subprocesses corresponding to the integrations with SAP Ariba solutions are supported for the following scope items:

- Guided Buying Capability with SAP Ariba Buying (2NV)
- Guided Buying for Central Procurement with SAP Ariba Buying (3EN) for SAP S/4HANA
- Automation of Source-to-Pay with SAP Business Network (42K)
- Contract Management with SAP Ariba Contracts (4AZ)
- Central Procurement with SAP Ariba Sourcing (4QN)
- Sourcing with SAP Ariba Sourcing (4BL)
- Contract for Central Procurement with SAP Ariba Contracts (4B0)

> **Note**
>
> - API-based integration scenarios are not necessarily equivalent to the add-on based integration scenarios, especially in the area of services. For example, MM-SRV versus lean services support.
> - If you use SAP Business Network for Supply Chain, use the add-on and not the scope item 42K.

For more information, see Setting Up API-Based Connections for Business Processes [page 26].

Supported Systems [page 23]

Setting Up API-Based Connections for Business Processes [page 26]

Integrating Using a Middleware

If you want to include a middleware in your integration landscape, you can do so by configuring the add-on to communicate with the middleware instead of directly communicating with SAP Integration Suite, managed gateway. For example, you can configure the add-on with SAP Process Integration and Process Orchestration to include them in your integration landscape as middleware. When you configure a middleware to your integration setup, all the documents are routed through the middleware to SAP Integration Suite, managed gateway. For these connection methods, you must choose HTTPS as the transport type. Also, SAP Cloud Platform cloud connector is not used in this landscape. For more information, see Integrating Using a Middleware in SAP Integration Suite, Managed Gateway Installation Guide.

Supported Systems

The following section lists the supported systems and the supported software in this release of SAP Integration Suite, managed gateway. For any feature-specific support information, see the corresponding section for the feature in SAP Integration Suite, Managed Gateway Overview Guide.

> **Note**
>
> If you have integrated SAP Business Network or SAP Ariba applications with SAP ERP or SAP S/4HANA using Ariba Network adapter for SAP NetWeaver version 9.0, 9.0 SP1, or 9.0 SP2, see SAP Notes Framework Notification 2400737 - Ariba Cloud Integration Solutions for SAP: Supported SAP Product Versions for additional information.

> **Note**
>
> Starting, SAP Integration Suite, managed gateway, Release 2008 (Q3 2020), SAP Integration Suite, managed gateway supports integration with SAP S/4HANA 2020, using either SAP Integration Suite, managed gateway add-on or the standard APIs (without the need for the SAP Integration Suite, managed gateway components) for certain business processes. For more information, see the Source-to-Pay Business Process documentation on the SAP Help Portal.

> **Note**
>
> SAP Integration Suite, managed gateway supports only Unicode systems. Currently, the supported encoding for data is UTF-8.

SAP ERP and SAP S/4HANA Systems

SAP Integration Suite, managed gateway supports the following versions of SAP ERP and SAP S/4HANA systems:

- **SAP ERP** (**SAP_BASIS 700 SP27** is the SAP Basis version for all the following SAP ERP versions)
  SAP EHP0 for SAP ERP 6.0 (SAP_APPL 600 SP22)
  SAP EHP2 for SAP ERP 6.0 (SAP_APPL 602 SP12)

SAP EHP3 for SAP ERP 6.0 (SAP_APPL 603 SP11)
SAP EHP4 for SAP ERP 6.0 (SAP_APPL 604 SP12)
SAP EHP5 for SAP ERP 6.0 (SAP_APPL 605 SP09)
SAP EHP6 for SAP ERP 6.0 with non-HANA database (SAP_APPL 606 SP05)
SAP EHP6 for SAP ERP 6.0 with HANA database (SAP_APPL 606 Minimum supported version)
SAP EHP7 for SAP ERP 6.0 (SAP_APPL 617 Minimum supported version)
SAP EHP8 for SAP ERP 6.0 (SAP_APPL 618 Minimum supported version)

> **Note**
>
> The minimum supported SAP ERP version for SAP Ariba Supplier Lifecycle and Performance is SAP EHP8 (SP12) for ERP 6.0.

- **SAP S/4HANA**
  - SAP S/4HANA, on-premise edition 1909
  - SAP S/4HANA, on-premise edition 1809
  - SAP S/4HANA, on-premise edition 1709
  - SAP S/4HANA, on-premise edition 1610
  - SAP S/4HANA, on-premise edition 2020
  - SAP S/4HANA, on-premise edition 2021
  - SAP S/4HANA, on-premise edition 2022
  - SAP S/4HANA, on-premise edition 2023
  - SAP S/4HANA, on-premise edition 2025

    > **Note**
    >
    > (Optional) For SAP S/4HANA, on-premise edition 2021, 2022, 2023, and 2025, in some cases, when you run the events for transactions in SAP S/4HANA systems, you may encounter the error, `RFC_NO_AUTHORIT` or `No RFC authorization for function module`.
    >
    > This error occurs due to the missing standard SAP authorizations for events in transactions. You can resolve the error by adding the missing authorizations for the workflow user. However, SAP Ariba recommends that you apply the SAP Note 2798488 to resolve the error.

Transport Layer Security

SAP Integration Suite, managed gateway requires the minimum Transport Layer Security version, TLS 1.2.

SAP Process Integration Versions

SAP Integration Suite, managed gateway supports the following SAP Process Integration versions:

- SAP Process Integration 7.1
- SAP Process Integration 7.3
- SAP Process Integration 7.4

- SAP Process Integration 7.5

Add-On for SAP ERP and SAP S/4HANA

SAP Integration Suite, managed gateway supports the following add-ons for your SAP ERP and SAP S/4HANA systems:

- **SAP ERP**
  SAP Integration Suite, managed gateway, add-on for SAP ERP
- **SAP S/4HANA**
  SAP Integration Suite, managed gateway, add-on for SAP S/4HANA

> ⓘ Note
>
> For supplier data integration with SAP MDG, see Install SAP Ariba CIG Add on in Integrating SAP MDG-S with SAP Ariba Supplier Lifecycle and Performance.
>
> The SAP Integration Suite, managed gateway, supports integration with the invoice status portal on SAP Business Network without any additional configuration. For more information on invoicing and payment remittance in SAP Business Network Commerce Automation, see Invoice Status Portal Configuration.

Software Components

Install the appropriate software component for your SAP ERP or SAP S/4HANA system:

- **SAP ERP**
  SAP Integration Suite, managed gateway 1.0, add-on for SAP ERP
  - SAP Integration Suite, managed gateway 1.0, add-on for SAP (ARBCI1 100)
    - If you are a customer using one of the following, use ARBCI1 100:
      - One or more of the SAP Ariba solutions
      - Customer using SAP ERP 6.0 EHP0 or higher
  - SAP Integration Suite, managed gateway for SAP ERP EHP4 to EHP8 V.1 (ARBCI2 100)
    - If you are a customer using one of the following, use ARBCI2 100:
      - Customer using SAP ERP 6.0 EHP 4 or higher
      - Customer using SAP Ariba Contracts, SAP Ariba Contract Invoicing, or SAP Ariba Strategic Sourcing Suite with service items
  - SAP Integration Suite, managed gateway for RETAIL. Version 1.0 (ARBCIGR 100) - Use for EHP 0 to EHP8

> ⓘ Note
>
> - Before you install the SAP Integration Suite, managed gateway for RETAIL. Version 1.0 (ARBCIGR 100) software component, you must install the following software packages:
>   - ARBCI1 100 SP01 (Software package specific to SAP Ariba)
>   - EA-RETAIL EHP0 SP22 (Enterprise software package)
> - Use ARBCI2 100 if you want to use SAP Ariba Sourcing or SAP Ariba Contracts

- SAP S/4HANA
  SAP Integration Suite, managed gateway 1.0, add-on for SAP S/4HANA
  - ARIBA CLOUD INT FOR S/4HANA 1.0 (ARBCI1 10S)
  - ARIBA CLOUD INT FOR S/4HANA 1.0 (ARBCI2 10S)
  - ARIBA CLOUD INT FOR S/4HANA 1.0 (ARBCIGR 10S)
  - Cloud Integration for S/4HANA (S4CI1 100)

Supported Languages

The add-ons for SAP ERP and SAP S/4HANA systems are available only in English.

Setting Up API-Based Connections for Business Processes

Context

Administrators define business processes that can be used to set up API-based connections.

Procedure

1. Create a new integration project.
2. In the **Connection** tab of the Project Wizard, choose to edit or add a new connection, and then choose **CloudConnector** in the **Transport Type** dropdown.

   This causes the **Document Type** field in the Connect to Backend System section to be grayed out, with the value set as ANY.
3. In the **Mappings** tab, choose a business process for API-based connection from the **Business Process** dropdown.

   The business process is added to the table with the following columns: **Business Process**, **Integration Type**, and **Action**. The Integration Type is always API. You can click the view button under the **Action** column to get a quick view of the document types associated with the business process.
4. Repeat step 3 to add more business processes to the table.
5. Save the settings and the project.

Results

The business processes chosen for API-based connection will use that integration mechanism. All other business processes will use the AddOn.

After the API-based connections for business processes are set up, users can use the mapping tool. Specifically, in SAP Integration Suite, managed gateway, when users choose **My Configuration** > **Mappings**, document types are visible even if SAP S/4HANA with version 2020 or above is configured as ERP in the basic data.

Configuring General Settings for Transaction Documents

This section describes general settings configuration for transactional documents for the following SAP Ariba solutions:

> **Note**
>
> In some cases, when you run the events for transactions in SAP S/4HANA, on-premise edition 2020, you may get an error, `RFC_NO_AUTHORIT` or `No RFC authorization for function module...`.
>
> This error occurs due to missing standard SAP authorizations for events in transaction. You can resolve the error by adding the missing authorizations for the workflow user. However, SAP Ariba recommends that you apply the SAP Note 2798488 to resolve the errors.

SAP Business Network [page 28]

SAP Ariba Procurement Solutions [page 47]

SAP Ariba Strategic Sourcing Suite [page 52]

SAP Business Network

General Settings for SAP Business Network [page 28]

General Settings for SAP Business Network

To create event linkage for proxy and port definition, perform the following tasks:

Setting Up the Interface [page 29]

Sending Document Status Update [page 34]

Enabling SAP Business Network for Supply Chain [page 40]

Enabling Vendors [page 40]

Maintaining Specific Vendors and Company Codes as Recipients of Transactions [page 41]

Enabling Conversion of Data to External Format [page 44]

Uploading Supplier Records to the Activate Additional Outbound Messages for Specific Vendors Table in the .csv Format [page 45]

Setting Up the Interface

Configuring the Connections to Send Messages [page 29]

Creating Partner Profile for House Bank [page 32]

Implementing the BAdI to Set Up the Interface [page 33]

Configuring the Connections to Send Messages

Context

This task is a one-time activity. For IDocs, the interface setup supports partner profile creation only for Partner Type LS (Logical System). If you want support for Partner Type LI (Vendor), create it using the transaction code **WE20**.

Prerequisites

- You need to register IDOC web service in ERP for the IDOC inbound documents to work. To register the service use the transaction code **SRTIDOC**.
- To maintain the logical system name for Payment Remittance Request, you must apply the SAP Note 1441799. Ensure to make the necessary source code changes and the assigned corrections mentioned in the SAP note, if you are a customer using:
  - SAP ERP 6.0 EHP1
  - SAP ERP 6.0 EHP2 and EHP3
  - SAP ERP 6.0 EHP7 and higher

To set up the interface for IDocs and proxies, perform the following steps:

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **General Settings** > **Setup the Interface** .
4. Click **IMG-Activity** for **Configure the Connections to Send Messages**.

   The **Interface Setup for SAP Business Network Integration** screen appears.

This screen consists of two main sections and lists all the supported transactions in each flow:

- **Interface Setup for IDoc** - Applicable to both SAP Integration Suite, managed gateway and middleware configuration.
- **Interface Setup for Web Service** - Applicable to SAP Integration Suite, managed gateway configuration.

5. You can either click **Select All** to select all listed transactions for both flows or select the transaction individually. Configure the Connections to Send Messages
6. Enter the following information for **Configure the Connections to Send Interface Setup for IDoc**:
   - **CI Gateway Logical System**: ARIBACIG, for example.

     > ⓘ Note
     >
     > Inbound documents are created under SAP's actual logical system.

   - Choose from the following options to set up IDOC for the outbound and inbound documents:
   - **Outbound transaction messages sent to SAP Integration Suite, managed gateway**
     - **ERP Initiated Invoice**
     - **Purchase Order**
     - **Order Inquiry**
     - **Schedule Agreement Release**
     - **Payment Request**
   - **Inbound transaction messages sent from SAP Integration Suite, managed gateway**
     - **Invoice**
     - **Order Confirmation**
7. Perform the following steps for **Interface Setup for Web Service**:
   a. > ⓘ Note
      >
      > SAP Integration Suite, managed gateway uses the Europe data center by default.

      To update your data center details, click the **Choose a data center** drop down, and then choose your data center.
   b. Select one of the following to indicate if the connection is to a production or test instance:
      - **Connect to SAP Integration Suite, managed gateway Production Instance**
      - **Connect to SAP Integration Suite, managed gateway Test Instance**
   c. Select one of the following types of authentication methods:
      - Select **User ID / Password** and enter authentication information to connect to SAP Integration Suite, managed gateway.
        - In the **User Name** text box, enter the P user ID that you activated while registering the SAP Ariba application with SAP Integration Suite, managed gateway.
        - Enter the password for the P user ID. The password you specify here should match the password you entered while registering the SAP Ariba application with SAP Integration Suite, managed gateway.
      - Select **X.509 SSL Client Certificate** and choose the **Certificate Name** (ARIBA, for example).
   d. The following fields appear if the **ENABLE_MIDDLEWARE** parameter is enabled in **Global Settings**. For more information about enabling this parameter, see Enabling Integration Through Middleware in SAP

Integration Suite, Managed Gateway Installation Guide. Enter the following values if you are using a middleware:

- **URL Host**: Enter the host URL for the middleware. For example, https://<host name:port number>.
- **Path Prefix**: Enter the path prefix for the middleware. For example, https://<hostname:port number>/<path prefix to the receiver document>.

Interface	Path Prefix of the Receiver
Idoc	`/cxf/receiveIDOC`
Proxy	`/cxf/receiveSOAP`
XI	`/cxf/receiveXI`

8. If you use a proxy server, enter the following:
   - Enter the HTTP proxy name in the **Name of Proxy Host** field. For example, proxy.abc.com.
   - Enter the port name in the **Port Number of Proxy Host** field. For example, 8080.
   - Enter the user name for the proxy server in the **User Name of Proxy Server** field. For example, <user name> registered for the proxy server.
   - Enter the password for the registered user name in the **Proxy User Password** field. For example, <password> for the registered user on the proxy server.

> **Note**
>
> - The Logical Port setting is overwritten each time you run the interface settings for outbound web services.
> - For payment remittance, you are required to manually create a partner profile of partner type B. For more information see, Creating Partner Profile for House Bank [page 32].
> - After you run the transaction, you can view the status of the transaction using the code **`SLG1`**, using the object: **`ARBCIG_INTERFACE`**, and subobject: **`IF_LOGS`**.

9. Choose from the following options to set up web services for the outbound and inbound documents:
   - **Outbound transaction messages sent to SAP Integration Suite, managed gateway**
     - **Document Status Update**
     - **Service Sheet Response**
     - **Remittance Cancellation**
     - **Invoice Status Update**
     - **Ship Notice Request**
     - **Quality Inspection Decision**
     - **Payment Proposal**
     - **Quality Notification**
     - **ERP-initiated Service Sheet**
     - **Product Activity Message**
     - **Requisition**
     - **Receipt Request**
     - **Quality Inspection Request**
   - **Inbound transaction messages sent from SAP Integration Suite, managed gateway**

- **Advance Ship Notice**
- **Liability Transfer**
- **Quality Inspection Result**
- **Component Acknowledgement**
- **Product Replenishment Message**
- **Order Confirmation Approval**
- **Component Consumption Request**
- **Remittance Advice**
- **Replenishment Order**
- **Credit Memo Cancel**
- **Service Sheet**
- **Document Status Update**
- **Quality Notification**

10. Click **Execute**.

Creating Partner Profile for House Bank

House banks are the banks through which companies deal all the payment transactions. Each house bank of a company code is represented by a bank ID in the SAP system, It is used for the purpose of payment programme, check deposit, automatic payment program (APP), and bank reconciliation.

Context

For payment remittance, you are required to manually create a partner profile of partner type B. To create a partner profile for house bank, perform the following steps:

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **General Settings** > **Set Up the Interface** .
4. Click **IMG-Activity** for **Create Partner Profile for House Bank**.

   The **Partner profiles** screen appears.

5. Click **Partner type B** and enter values for the following parameters:

   - **Partner No.**
   - **Partn.Type**

   On the **Post processing: permitted agent** tab:

   - **Ty.**
   - **Agent**
   - **Lang**
6. Click **Save**.

   The entered partner number is now listed under **Partner type B**.
7. Double-click the partner number listed under **Partner type B** and then click **Create outbound parameter**.

   The **Partner profiles: Outbound parameters** screen appears.
8. Enter the following information:

Message Type	Receiver port	Transfer IDoc immediately	Basic Type
PAYEXT	CIGPORT, for example	Select the option.	PEXR2001
REMADV	CIGPORT, for example	Select the option.	ARBCIG_REMADV

> **Note**
>
> The SAP Integration Suite, managed gateway does not support PEXR2001. To generate IDoc for REMADV without triggering IDoc for PEXR2001:
>
> 1. Run the transaction code **WE20**.
> 2. Navigate to **Partner Profile** > **Partner Type LI** and double-click the required vendor.
> 3. Double-click **PAYEXT** under **Outbound parmtrs**.
> 4. Under **Outbound Options**:
>   - Ensure **Pack. Size** is blank.
>   - Select **Collect IDocs** under **Output Mode**.
> 5. Click **Save**.

9. Check the **Cancel Processing After Syntax Error** option.
10. Click **Save**.

Implementing the BAdI to Set Up the Interface

Context

When setting up the interface, you can optionally implement the BAdI to modify any parameters. This BAdI is used for all the SAP Ariba solutions. The parameter **IP_SOLUTION** identifies the SAP Ariba solution. Based on the solution you require, choose one of the possible values in the **IP_SOLUTION** field:

- BUY - SAP Ariba Buying and Invoicing

- SRC - SAP Ariba Sourcing and SAP Ariba Contracts
- AN - SAP Business Network

To implement the BAdI, perform the following steps:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **General Settings** > **Set Up the Interface** > .
4. Click **IMG-Activity** for the **BAdIs for Setting Up the Interface**.

   The **Create Enhancement Implementation** popup appears.
5. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: `ARBCIG_AUTO_INTERFACE`
   - Implementation methods:
     - `CHANGE_MESSAGE_OUT`: To change message parameters for outbound IDocs
     - `CHANGE_MESSAGE_IN`: To change message parameters for inbound IDocs
     - `CHANGE_PARTNER_HEADER`: To change partner header for IDocs
     - `CHANGE_OUT_IDOC_IN`: To change outbound IDocs message control
     - `CHANGE_PROXY`: To change parameters when setting up service name or logical port for proxies

   > **Note**
   >
   > Ensure that you check the **IP_SOLUTION** parameter to identify the solution for which you are implementing the method.

Sending Document Status Update

Using the document status update, you can monitor status of all transaction that you send from your SAP ERP or SAP S/4HANA system through SAP Integration Suite, managed gateway to suppliers on SAP Business Network and send the document status update for transactions that you receive, to suppliers on SAP Business Network.

The following table lists the object, subobject, and interface to monitor the status of supported outbound transactions using the transaction code **SLG1**:

Transaction	Object	Subobject	Interface
Ship notice request	ARBCIG_NETWORK	SHPNOTICEREQ	DespatchedDeliveryNotification_Async_Out
FI-based ERP-initiated invoice	ARBCIG_NETWORK	ERPCC_INVOICE	ARBCIG_FIDCC2
Invoice status update	ARBCIG_NETWORK	ISU	InvoiceStatusUpdateReq_Async_Out
MM-based ERP-initiated invoice	ARBCIG_NETWORK	ERPCC_INVOICE	ARBCIG_GSVERF
Order enquiry	ARBCIG_NETWORK	ORDER_ENQUIRY	ARBCIG_ORDENQ
Payment proposal	ARBCIG_NETWORK	PAYMENT_PROPOSAL	PaymentProposalRequest_Async_Out
Payment remittance request	ARBCIG_NETWORK	REMITTANCE	ARBCIG_REMADV
Product activity message	ARBCIG_NETWORK	PRODUCT_ACTIVITY	ProductActivityMessage_Async_Out
Purchase order	ARBCIG_NETWORK	PURCHASE_ORDER	ARBCIG_ORDERS
Receipt request	ARBCIG_NETWORK	GOODS_RECEIPT	ReceiptDetailRequest_Async_Out
Scheduling agreement release	ARBCIG_NETWORK	SCHEDULE_AGREEMENT	ARBCIG_DELINS
Service sheet response	ARBCIG_NETWORK	SES_RESPONSE	ServiceEntrySheetResponse_Async_Out

The following table lists the object, subobject, and interface to monitor the status of supported inbound transactions using the transaction code **SLG1.**. You can also view the statuses of these transactions using **Transaction Tracker** in the SAP Integration Suite, managed gateway portal.

Transaction	Object	Subobject	Interface
Component acknowledgment	ARBCIG_NETWORK	COMP_ACK	ComponentAcknowledgeReq_Async_In
Component consumption request	ARBCIG_NETWORK	COMP_CONSUMPTION	ComponentConsumptionReq_Async_In
Credit memo	ARBCIG_NETWORK	INVOICE	CreditMemoAttachProcessReq_Async_In
Invoice	ARBCIG_NETWORK	INVOICE	ARBCIG_INVOIC

Transaction	Object	Subobject	Interface
Liability transfer	ARBCIG_NETWORK	LIABILITY_INV	LiabilityTransferRequest_Async_In
Order confirmation	ARBCIG_NETWORK	ORDER_CONFIRMATION	ARBCIG_ORDRSP
Product replenishment message	ARBCIG_NETWORK	PRODUCT_REPLENISHMEN	ProductReplenishmentRequest_Asyn_In
Remittance advice	ARBCIG_NETWORK	REMIT_ADVICE	RemittanceAdviceRequest_Async_In
Service sheet	ARBCIG_NETWORK	SES_CREATE	ServiceEntrySheetRequest_Async_In
Advance ship notice	ARBCIG_NETWORK	ADVSHPNOTI	DespatchedDeliveryNotification_Async_In

The following sections lists the task that you are required to perform to enable monitoring using the document status update.

Maintaining Parameters for Document Status Update [page 36]

Maintaining Date and Time to Send Document Status Update for Order Confirmation [page 38]

Scheduling Job for Order Confirmation Document Status Update [page 38]

Implementing the BAdI for Document Status Update [page 39]

Maintaining Parameters for Document Status Update

Context

To maintain the parameters required for document status update, perform the following steps:

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **General Settings** > **Document Status Update** .

4. Click **IMG-Activity** for **Maintain Parameters for Document Status Update**.

   The **Parameters - Document Status Update** screen appears.

5. Maintain the following parameters:

   Table 1: Parameters for Document Status Update

Parameter name	Description	Supported values
TRIGGER_SUR	To send the status update request for proxy documents	• **Variable Name**: TRIGGER_SUR • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable)
RESTRICT_SUCCESS_SUR	To prevent sending of success status update requests.	• **Variable Name**: RESTRICT_SUCCESS_SUR • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable)
IN_IDOC_ERROR_STATUS	To maintain the final error status code of Ariba inbound IDocs. Use this parameter to read the errored out Ariba inbound IDocs and send error status update.	• **Variable Name**: IN_IDOC_ERROR_STATUS • **Field Name**: Leave it blank • **Number**: 0000 You can maintain more than one IDOC error status code by incrementing the value in the **Number** field, as needed. • **Low**: Final error status code, for example 51.
IN_IDOC_SUCCESS_STATUS	To maintain the final success status code of Ariba inbound IDocs. Use this parameter to read the successful Ariba inbound IDocs and send the success status update.	• **Variable Name**: IN_IDOC_SUCCESS_STATUS • **Field Name**: Leave it blank • **Number**: 0000 You can maintain more than one IDOC success status code by incrementing the value in the **Number** field, as needed. • **Low**: 03 or 53, for example.
IN_IDOC_SENDER_PART_NO	To maintain the partner number of the sender of Ariba inbound IDocs.	• **Variable Name**: IN_IDOC_SENDER_PART_NO • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: NWCCLNT520, for an example.

Maintaining Date and Time to Send Document Status Update for Order Confirmation

Context

Maintain date and time to fetch the Order Confirmation information incrementally from the last fetched date and time. This is a one-time activity for new customers.

To maintain date and time to send document status update for Order Confirmation, perform the following steps:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **General Settings** > **Document Status Update** .
4. Click **IMG-Activity** for **Maintain Date-Time to send Doc. Stat. Upd. for OrderConfirmation**.
5. Click **New Entries**.

   The **New Entries: Overview of Added Entries** screen appears.
6. From the **Document Type** dropdown, choose **Document Status Update** and enter the date and time in the **Date** and **Time** field.
7. Click **Save**.

Scheduling Job for Order Confirmation Document Status Update

Context

To send document status update for order confirmation transactions, perform the following steps:

Procedure

1. Run the transaction code `SM36`.

   The **Define Background Job** appears.

2. Schedule the program for **ARBCIG_INBOUND_IDOC_SUR**.

> **Note**
>
> After you run the report, you can view the status of the report message status using the code **SLG1**, using the object: **ARBCIG_UTILITY**, and subobject; **DOCUMENTSTATUSUPDATE**
>
> .

Implementing the BAdI for Document Status Update

Context

To implement BAdIs for document status update, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **General Settings** > **Document Status Update** .
4. Click **IMG-Activity** for **BAdIs for Document Status Update**

   The **Create Enhancement Implementation** popup appears.
5. Implement the BAdI:
   - BAdI name: `ARBCIG_BADI_DOC_STAT_UPD`
   - Implementation methods:
     - `INBOUND_PRXY_PRE_PROCESSING`: To preprocess inbound document status update.
     - `OUTBOUND_PRXY_PRE_PROCESSING`: To preprocess outbound document status update.

   For more information about implementing a BAdI, see How to Implement a BAdI.

Enabling SAP Business Network for Supply Chain

Context

You are required to maintain the following parameter to enable SAP Business Network for Supply Chain for all supported transactions.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **General Settings** > **Enable SAP Ariba Supply Chain Collaboration**.
4. Click **IMG-Activity** for **Enable SAP Ariba Supply Chain Collaboration**.

   The **Parameters - SAP Ariba Supply Chain Collaboration** screen appears.
5. Maintain the following parameter:

   Table 2: Parameter to Enable SAP Business Network for Supply Chain

Parameter name	Description	Supported values
CSC_ENABLED	To enable SAP Business Network for Supply Chain for all supported transactions.	• **Variable Name**: CSC_ENABLED • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: X

Enabling Vendors

Context

You are required to maintain the vendors that are registered suppliers on SAP Business Network.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **General Settings** > **Enable Vendors**.
4. Click **IMG-Activity** for **Enable Vendors**.

   The **Change View "SAP Business Network Vendor Table": Details** screen appears.
5. Maintain the vendor and associated company code for each of the vendors you want to enable for SAP Business Network in the **Company Code** and **Vendor** fields. For example, **`1000`** and **`9010`**
   The list of vendors is displayed in the **Change View "SAP Business Network Vendor Table": Overview** screen.
6. To check if the vendor is enabled for Test Central, enter **`X`** in the **Test Central Vendor Flag** field.
7. Enter the **Comp Registration No** and **ClientID** of the vendor. For more information on maintaining the company registration number and the client ID for a vendor, see Maintaining the Company Registration Number and the Client ID for a Vendor [page 316].

Enabling PO Line Item Delete Indicator

> **Note**
>
> This functionality is not supported for service line item deletion and mixed purchase orders with service line items.

8. Enter **`X`** in the **Send PO Del Ind** field for the integrated supplier who should receive purchase order with the **Deleted** line items indicator.

Maintaining Specific Vendors and Company Codes as Recipients of Transactions

Context

This task enables you maintain specific vendors and company codes as recipients of supported transactions. For more information about the supported transactions listed here, see SAP Integration Suite, Managed Gateway Overview Guide.

You can maintain these specific suppliers in the `Activate Additional Outbound Messages for Specific Vendors` table (the `ARBCIG_OB_VENDOR` database table). Optionally, you can also maintain the company codes along with these vendors. Maintaining the company code enables you to send the product activity message for supplier managed inventory and forecast collaboration and the quality notification to the plants associated with that company code.

In the `Activate Additional Outbound Messages for Specific Vendors` table, you can maintain only a subset of the vendors that you have maintained in the `AN_VENDOR` table.

> **Note**
>
> If you have not maintained any vendors in the `Activate Additional Outbound Messages for Specific Vendors` table, the product activity message and the quality notification are created and sent for all the vendors in the `AN_VENDOR` table.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **General Settings** > **Maintain Vendor for the Outbound Transaction**.
4. Click **IMG-Activity** for **Maintain Vendor for the Outbound Transaction**.

   The **Change View "Activate Additional Outbound Messages for Specific Vendor"** screen appears.
5. In the **Activate Additional Outbound Messages for Specific Vendor** table, do the following and click **Save**:

   For product activity message:

   - In the **Vendor** field, enter the ID of one or more vendors to whom you want to send the product activity message.
   - In the **Message Type** field for each vendor, choose **Product Activity Message**.
   - In the **Company Code** field, optionally enter the company code to which the plants where you want to send the product activity message is associated.

   For quality notification:

   - In the **Vendor** field, enter the ID of one or more vendors to whom you want to send the quality notifications.
   - In the **Message Type** field for each vendor, choose **QLTYC QN Collaboration Vendor Check**.
   - In the **Company Code** field, optionally enter the company code to which the plants where you want to send the quality notifications are associated.

   For ERP service sheet entry response:

   - In the **Supplier** field, enter the ID of one or more suppliers to whom you want to send the ERP service sheet entry response.
   - In the **Message Type** field for each supplier, choose **ERPSES ERP Service Sheet Entry Response**.
   - In the **Company Code** field, optionally enter the company code to which the plants where you want to send the ERP service sheet entry response is associated.

   For invoice status update:

   - In the **Supplier** field, enter the ID of one or more suppliers to whom you want to send the invoice status update.
   - In the **Message Type** field for each supplier, choose **ISU Invoice Status Update**.

- In the **Company Code** field, optionally enter the company code to which the plants where you want to send the invoice status update are associated.

For outbound ship notice request:

- In the **Supplier** field, enter the ID of one or more suppliers to whom you want to send the ship notice request.
- In the **Message Type** field for each supplier, choose **OCSN Outbound Ship Notice Request**.
- In the **Company Code** field, optionally enter the company code to which the plants where you want to send the ship notice request are associated.

For payment proposal request:

- In the **Supplier** field, enter the ID of one or more suppliers to whom you want to send the payment proposal request.
- In the **Message Type** field for each supplier, choose **PAYP Payment Proposal**.
- In the **Company Code** field, optionally enter the company code to which the plants where you want to send the payment proposal request are associated.

For payment remittance cancel status update:

- In the **Supplier** field, enter the ID of one or more suppliers to whom you want to send the payment remittance cancel status update.
- In the **Message Type** field for each supplier, choose **REMITC Remittance Cancellation**.
- In the **Company Code** field, optionally enter the company code to which the plants where you want to send the payment remittance cancel status update are associated.

For payment remittance request:

- In the **Supplier** field, enter the ID of one or more suppliers to whom you want to send the payment remittance request.
- In the **Message Type** field for each supplier, choose **PAYRR Payment Remittance Request**.
- In the **Company Code** field, optionally enter the company code to which the plants where you want to send the payment remittance request are associated.

For purchase requisition:

- In the **Supplier** field, enter the ID of one or more suppliers to whom you want to send the requisition.
- In the **Message Type** field for each supplier, choose **PURREQ Purchase Requisition**.
- In the **Company Code** field, optionally enter the company code to which the plants where you want to send the requisition are associated.

For quality inspection request:

- In the **Supplier** field, enter the ID of one or more suppliers to whom you want to send the quality inspection request.
- In the **Message Type** field for each supplier, choose **QLTI Quality Inspection**.
- In the **Company Code** field, optionally enter the company code to which the plants where you want to send the quality inspection request are associated.

For receipt request:

- In the **Supplier** field, enter the ID of one or more suppliers to whom you want to send the receipt request.
- In the **Message Type** field for each supplier, choose **RCPT Receipt Request**.

- In the **Company Code** field, optionally enter the company code to which the plants where you want to send the receipt request are associated.

For service sheet response:

- In the **Supplier** field, enter the ID of one or more suppliers to whom you want to send the service sheet response.
- In the **Message Type** field for each supplier, choose **SESREP Service Entry Sheet Response**.
- In the **Company Code** field, optionally enter the company code to which the plants where you want to send the service sheet response are associated.

Enabling Conversion of Data to External Format

Context

Configure the following three parameters to enable the conversion of data format:

- ENABLE_EXTFORMAT_MASTERDATA
- ENABLE_EXTFORMAT_SUPPLIER_ONLY
- ENABLE_EXTFORMAT_ISO_UOM

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **General Settings**.
4. Click **IMG-Activity** for **External Format Conversion**.
5. Click **Modify** and enable the following parameters:

Parameter name	Description	Field
ENABLE_EXTFORMAT_MASTERDATA	Use this parameter to enable the conversion routine for the following fields: • Material • Item number • Document Number • G/L account • Asset • WBS Element • Cost center • Internal Order • Address number • Service Map Key • Parent Service Map key • Extrow . The conversion routine would convert the data to External format.	• **Variable Name**: ENABLE_EXTFORMAT_MASTERDATA • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: **X** (to enable) or leave it blank (to disable).
ENABLE_EXTFORMAT_SUPPLIER_ONLY	Use this parameter to enable the conversion routine for the outbound supplier or vendor information. By enabling this parameter, supplier information is sent without preceding zeroes.	• **Variable Name**: ENABLE_EXTFORMAT_SUPPLIER_ONLY • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: **X** (to enable) or leave it blank (to disable).
ENABLE_EXTFORMAT_ISO_UOM	Use this parameter to enable the conversion routine for the standardization of unit of measurement (UOM) for both inbound and outbound transactions. The conversion routine converts ISO UOM to commercial/internal UOM in the inbound transaction and commercial/internal UOM to ISO UOM in the outbound transaction.	• **Variable Name**: ENABLE_EXTFORMAT_ISO_UOM • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: **X** (to enable) or leave it blank (to disable).

6. Click **Save**.

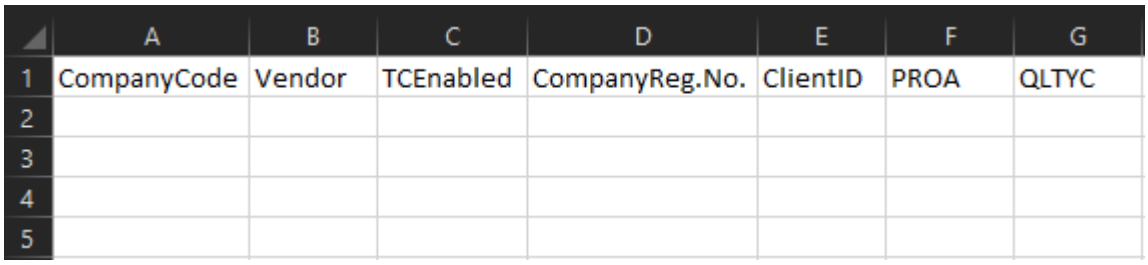
Uploading Supplier Records to the Activate Additional Outbound Messages for Specific Vendors Table in the .csv Format

Context

To upload the supplier records to the **Activate Additional Outbound Messages for Specific Vendors** table (the `ARBCIG_OB_VENDOR` database table) in the `.csv` format, run the transaction code `ARBCIG_AN_VENDOR_UPL`.

When you do this task, the data is uploaded to the **SAP Business Network Vendor Table** table (the ARBCIG_BN_VENDOR database table) as well.

On the **Mass Upload program to load data in Ariba Vendor and Outbound table** page, you can use the **Download the File** option to download the excel file that contains all the columns required for maintaining the supplier records to upload them to the ARBCIG_OB_VENDOR table. The following screenshot displays the columns in the excel sheet that you download from this page:



	A	B	C	D	E	F	G
1	CompanyCode	Vendor	TCEnabled	CompanyReg.No.	ClientID	PROA	QLTYC
2							
3							
4							
5							

The excel sheet that you download from this page contains all the columns used in the ARBCIG_BN_VENDOR table to maintain the supplier records. So, if you want to upload a few suppliers in the ARBCIG_BN_VENDOR table to the ARBCIG_OB_VENDOR table, you can first download the supplier records from the ARBCIG_BN_VENDOR table in the excel format, process the records as described in this topic, and upload them to the ARBCIG_OB_VENDOR table using the **Upload the File** option in the **Mass Upload program to load data in SAP Business Network Vendor and Outbound table** page.

After you download the excel sheet from this page, you must first save the excel file in the `.csv` format. You can upload the supplier details to the ARBCIG_OB_VENDOR table only in the `.csv` format. While maintaining the supplier records in the `.csv` file, you must ensure that:

- The first row of the `.csv` file contains the column headers such as CompanyCode, Vendor, TCEnabled, and so on.
- The option availabe in the **Custom** category of the **Number** tab in the **Format Cells** dialog box of the excel sheet is used to maintain the leading zeros in the numeric fields.
- The value **X** has been maintained in the **QLTYC** column of the excel sheet for each supplier record to upload it to the ARBCIG_OB_VENDOR table.

> **Note**
>
> It is recommended to run the ARBCIG_MASS_UPLOAD and ARBCIG_UPLOAD_AN_OB_VENDOR programs only in the dialog mode.

Procedure

1. Run the transaction code ARBCIG_AN_VENDOR_UPL.

   The **Mass Upload program to load data in SAP Business Network Vendor and Outbound table** page appears.
2. In the **Select the File** field, maintain the `.csv` filename that you want to download or upload on this page.
3. In the **Upload and Download options** section, choose **Download the File** to download the excel file that contains all the columns required for maintaining the supplier records to upload them to the ARBCIG_OB_VENDOR table.

After downloading the excel file, you must add the supplier records to the excel sheet and process them as described in this topic.

Alternatively, you can download the supplier records in the excel file from the `ARBCIG_BN_VENDOR` table and process them as described in this topic.

4. In the **Upload and Download options** section, choose **Upload the File** and click **Execute** to upload the processed supplier records to the `ARBCIG_OB_VENDOR` table in the `.csv` format. The data is uploaded to the `ARBCIG_BN_VENDOR` table as well.
   a. (Optional) Before you upload the processed supplier records to the `ARBCIG_OB_VENDOR` table, do the following:
      - In the **Test mode to Display entries** section, check **Test Mode** and click **Execute** to view the entries that you want to upload to the `ARBCIG_OB_VENDOR` table.
      - After verifying the entries, uncheck **Test Mode**.
   b. (Optional) When you upload the file to the `ARBCIG_OB_VENDOR` table, you can do one of the following in the **Select option to Save or Delete table** entries section:
      - Choose **Save Table entries** to save the table entries that you are uploading to the `ARBCIG_OB_VENDOR` and the `ARBCIG_BN_VENDOR` tables.
      - Choose **Delete Table entries** to remove the supplier records from the `ARBCIG_OB_VENDOR` and the `ARBCIG_BN_VENDOR` tables. You must ensure that the file that you upload contains only the supplier records that you want to remove.

SAP Ariba Procurement Solutions

General Settings for SAP Ariba Procurement Solutions [page 47]

General Settings for SAP Ariba Procurement Solutions

Configure the settings to connect to SAP Integration Suite, managed gateway for SAP Ariba Procurement solutions.

Setting Up the Interface [page 47]

Determining the Data Records to Be Exported to SAP Ariba Procurement Solutions [page 51]

Setting Up the Interface

Configuring the Connections to Send Messages [page 48]

Implementing the BAdI to Set Up the Interface [page 50]

Configuring the Connections to Send Messages

Context

Use this program to enable the flow of messages between SAP ERP and SAP Ariba Procurement solutions. This is a one-time activity, but you can rerun the program any time there is an update relevant to outbound web services.

You can view the status of the report using the Tcode `SLG1`, using the object `ARBCIG_INTERFACE` and subobject `IF_LOGS`

> ### Note
>
> If the parameter **ENABLE_PI_MIDDLEWARE** is enabled under **Integration with Other SAP Components > SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer > Global Settings > Enable Integration via Middleware**, you don't have to create connections using this activity for SAP Ariba Procurement solutions integration.

The Logical Port setting is overwritten each time you run the interface settings for outbound web services.

Perform the following steps to configure the connections to send messages:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components > SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer > SAP Ariba Procurement Integration > General Settings > Setup the Interface**
4. Click **IMG-Activity** for **Configure the connections to send messages**.

   The **Interface Setup Program for Ariba Procurement** screen appears.
5. You can either click **Select All** to select all the listed outbound and inbound messages or select the messages individually in Step 7.
6. Perform the following steps in the **Interface Setup for Web Service** section:
   a. > ### Note
      >
      > SAP Integration Suite, managed gateway uses the Europe data center by default.

      To update your data center details, click the **Choose a data center** drop down, and then choose your data center.

b. Select one of the following to indicate if the connection is to a production or test instance of SAP Integration Suite, managed gateway:
   - **Connect to SAP Integration Suite, managed gateway Production Instance**
   - **Connect to SAP Integration Suite, managed gateway Test Instance**

c. Select one of the following types of authentication methods:
   - Select **User ID / Password** and enter authentication information to connect to SAP Integration Suite, managed gateway.
   - Select **X.509 SSL Client Certificate** and choose the **Certificate Name** (`ARIBA`, for example).

d. The following fields appear if the parameter **ENABLE_MIDDLEWARE** is enabled in the **Global Settings**. For more information about enabling this parameter, see Enabling Integration Through Middleware in SAP Integration Suite, Managed Gateway Installation Guide. Enter the following values if you are using a middleware:
   - **URL Host**: Provide the middleware host URL.
   - **Path Prefix**: Provide the following path prefix for the interface that you are configuring:

Interface	Prefix
Proxy	`/cxf/receiveAddonSOAPForAriba`

e. If you use a proxy server, enter the following:
   - HTTP proxy name in the **Name of Proxy Host** field. For example, `proxy.abc.com`.
   - Port name in the **Port Number of Proxy Host** field. For example, `8080`.
   - User name for the proxy server in the **User Name of Proxy Server** field. For example, <`user name`> registered for the proxy server.
   - Password for the registered user name in the **Proxy User Password** field. For example, <`password`> for the registered user on the proxy server.

7. Choose from the following options to set up web services for the outbound and inbound documents:
   - **Outbound transaction messages sent to SAP Integration Suite, managed gateway**
     - **Master Data**
     - **ERP Response to Procurement**
     - **Catalog Upload Request**
     - **Response for Asset Requisition**
     - **Remittance Export**
     - **Ingest Stock Request**
     - **Advance Payment Remittance**
     - **ERP-initiated Purchase Requisition**
     - **ERP-initiated Service Sheet**
   - **Inbound transaction messages sent from SAP Integration Suite, managed gateway**
     - **Purchase Order Export**
     - **Purchase Order Change Export**
     - **Purchase Order Cancel Export**
     - **Purchase Order Close Status**
     - **Requisition Export Request**
     - **Procurement Response to ERP**

- **Derive Accounting Export**
- **Receipt Export Request**
- **Service Sheet Export Request**
- **Advance Payment Export Request**
- **Cancel Advance Payment Request**
- **Aggregate Requisition**
- **Payment Export Request**
- **Requisition Revert Request**
- **Stock Availability Request**
- **Stock Reservation Request**
- **Asset Creation**

  > **Note**
  >
  > If you are on SP28, implement the 3848276 to use the **Asset Creation** interface while integrating with SAP Ariba Buying.

- **Catalog Status Response**

8. Click **Execute**.

Implementing the BAdI to Set Up the Interface

Context

When setting up the interface, you can optionally implement the BAdI to modify any parameters. This BAdI is used for all the Ariba solutions. The parameter **IP_SOLUTION** indicates the solution for which the BAdI is configured. The possible values for **IP_SOLUTION** are:

- BUY - SAP Ariba Buying and Invoicing
- SRC - SAP Ariba Strategic Sourcing solutions
- AN - SAP Business Network

To implement the BAdI, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.

2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **General Settings** > **Setup the Interface**

4. Click **IMG-Activity** for **BAdIs for Setting Up the Interface**.

   The **Create Enhancement Implementation** popup appears.
5. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.

   - BAdI name: `ARBCIG_AUTO_INTERFACE`
   - Implementation methods:
     - `CHANGE_MESSAGE_OUT`: To change message parameters for outbound IDocs
     - `CHANGE_MESSAGE_IN`: To change message parameters for inbound IDocs
     - `CHANGE_PARTNER_HEADER`: To change partner header for IDocs
     - `CHANGE_OUT_IDOC_IN`: To change outbound IDocs message control
     - `CHANGE_PROXY`: To change parameters when setting up service name or logical port for proxies

> **Note**
>
> Check the **IP_SOLUTION** parameter to identify the solution for which you are implementing the method.

Determining the Data Records to Be Exported to SAP Ariba Procurement Solutions

Context

You can configure the timestamp to determine the data records to be exported to SAP Ariba Procurement solutions. SAP ERP exports the data records that are created after the date and time specified in the timestamp to SAP Ariba Procurement solutions. After you send the records based on the timestamp, the timestamp is updated to the time you ran the export program. You can configure the timestamp to export the data records for the following extracts:

- Advance payment remittance
- PO Close
- Remittance

If you do not configure a timestamp, SAP ERP sends all the available data records to SAP Ariba Procurement solutions.

Procedure

1. On the *SAP Easy Access* page, run the transaction code **SPRO**.

   The *Customizing: Execute Project* screen appears.
2. Click **SAP Reference IMG**.

   The *Display IMG* page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **General Settings**

4. Click **IMG-Activity** for **Maintain Timestamp**.

   The *Change View "Timestamp": Overview* page appears.
5. On the application toolbar, click **New Entries**.
6. In the *New Entries: Overview of Added Entries* table, enter the following details and click **Save**.

Field	Description
Extract	Choose the extract to export: • **Advance Payment Remittance export**- To export the advance payment remittance records. • **PO Close export** - To export the status of closed purchase orders. • **Remittance export** - To export the payment remittance data records. .
DateTime stamp	Enter the timestamp for the payment remittance extract in the `YYYYMMDDhhmmss` format. For example, 20180711090906.

SAP Ariba Strategic Sourcing Suite

General Settings for SAP Ariba Strategic Sourcing Suite [page 52]

General Settings for SAP Ariba Strategic Sourcing Suite

Configuring the Connections to SAP Integration Suite, Managed Gateway [page 52]

Implementing the BAdI to Set Up the Interface for SAP Ariba Strategic Sourcing Suite [page 56]

Configuring the Connections to SAP Integration Suite, Managed Gateway

Context

Configure and set up the connection to send and receive documents from SAP Integration Suite, managed gateway. Before you set up the connection, ensure that you set up the Receiver Port for the transaction documents in the **Global Settings** configuration. For more information, see Configuring Global Settings in SAP Integration Suite, Managed Gateway Installation Guide.

Set up the logical system for the partner type LS, user name, and password. You set this up the first time before you send and receive documents from your SAP ERP or SAP S/4HANA system to SAP Integration Suite, managed gateway. Maintain the partner profile at a logical system for partner type LI (Vendor) for all vendors using the transaction code `WE20`.

The settings you specify in the Interface Set up for IDOC section are applicable for SAP Integration Suite, managed gateway to send the documents directly or using the Process Integration. The settings you specify in the Interface Set up for Web Services are applicable to send transaction documents directly to the SAP Integration Suite, managed gateway.

> → Remember
>
> The settings you specify for the logical port are over written each time you run the interface settings for the outbound web services.

> ⓘ Note
>
> If you want to integrate retail master data with SAP Ariba Strategic Sourcing Suite, you must assign `ARBCIGR_ARTMAS` basic type to the ARTMAS message type for the outbound and the inbound parameters before you perform this task.
>
> For more information, see Assigning Basic Type to SAP Ariba ARTMAS IDOC [page 144]

Procedure

1. Run the transaction code `SPRO`.

   The Customizing: Execute Project page appears.
2. Click **SAP Reference IMG**.

   The Display IMG page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Strategic Sourcing Suite Integration** > **General Settings** > **Setup the Interface**
4. Click **Configure the connections to send messages**.

   The Interface Setup Program for SAP Ariba Strategic Sourcing appears.
5. Enter the logical system name in the **CI Gateway Logical system** field to send the documents from the SAP ERP or SAP S/4HANA system to SAP Integration Suite, managed gateway.

   > ⓘ Note
   >
   > If you are using multiple ERP systems, specify the system ID of the ERP system.
6. Choose from the following options to set up the IDOC for the outbound and inbound transaction documents:
   - **Outbound transaction messages sent to SAP Integration Suite, managed gateway**
     - **Quote Request**
     - **Characteristics**

    - **Characteristics Profile**
    - **Merch. Category and Hierarchy**
    - **Article Master**
    - **Article with Components**
    - **Article Master Response**
- **Inbound transaction messages sent from SAP Integration Suite, managed gateway**
    - **Article Master**
    - **Article with Components**

7. Choose from the following options to set up web services for the outbound and inbound documents:

- **Outbound transaction messages sent to SAP Integration Suite, managed gateway:**
    - **Master data**
    - **Ariba Sourcing Status Update**
    - **Ariba Contract Response**
    - **Purchase Info Record Confirm**
    - **Retail Master Data Delete**
    - **SLP Confirmation Out Request**
    - **SLP Outbound Request**
- **Inbound transaction messages sent from SAP Integration Suite, managed gateway:**
    - **Ariba Sourcing Contract**
    - **Ariba Sourcing Purchase Order**
    - **Ariba Sourcing Service Items**
    - **Purchase Info Rec**
    - **Scheduling Agreement**
    - **SLP Confirmation In Request**
    - **SLP Inbound Request**

> ### Note
>
> If you intend to connect multiple cloud systems to your SAP S/4HANA or SAP MDG system, do not use the option for automatic outbound creation. In the Interface Setup Program for SAP Ariba Strategic Sourcing view, do not select any of the checkboxes except for **SLP Inbound Request** and **SLP Confirmation In Request**. The inbound is then still created automatically. For the outbound creation, follow the steps described in the following document: https://www.sap.com/documents/2020/11/da716b37-bb7d-0010-87a3-c30de2ffd8ff.html (valid for S/4HANA releases, not MDG 9.2).

8. (Optional) You can also click **Select All** to select all the inbound and outbound document transactions.
9. > ### Note
   >
   > SAP Integration Suite, managed gateway uses the Europe data center by default.

   To update your data center details, click the **Choose a data center** drop down, and then choose your data center.
10. Do one of the following:
    - Click **Connect to SAP Integration Suite, managed gateway Production Instance** to connect to the production account.

- Click **Connect to SAP Integration Suite, managed gateway Test Instance** to connect to the test account.

11. Choose one of the following authentication methods:
    a. Click **User ID/Password**.
        - In the **User Name** text box, enter the P user ID that you activated while registering the SAP Ariba application with SAP Integration Suite, managed gateway.
        - Enter the password for the P user ID. The password you specify here should match the password you entered while registering the SAP Ariba application with SAP Integration Suite, managed gateway.

    b. Click **X.509 SSL Client Certificate**.
        - Select a certificate name in the **Certificate Name** field.

    c. The following fields appear if the **ENABLE_MIDDLEWARE** parameter is enabled in **Global Settings**. For more information about enabling this parameter, see Enabling Integration Through Middleware in SAP Integration Suite, Managed Gateway Installation Guide. Enter the following values if you are using a middleware:
        - **URL Host**: Enter the host URL for the middleware.
        - **Path Prefix**: Enter the path prefix for the middleware.

Interface	Prefix
Proxy	`/cxf/receiveAddonSOAPForAriba`

12. If you use a proxy server, enter the following:
    - Enter the HTTP proxy name in the **Name of Proxy Host** field. For example, proxy.abc.com.
    - Enter the port name in the **Port Number of Proxy Host** field. For example, 8080.
    - Enter the user name for the proxy server in the **User Name of Proxy Server** field. For example, <user name> registered for the proxy server.
    - Enter the password for the registered user name in the **Proxy User Password** field. For example, <password> for the registered user on the proxy server.
13. Click **Execute**.

Verifying the Assignment of Message Types to Partner Profile for Retail Master Data Integration [page 55]

Verifying the Assignment of Message Types to Partner Profile for Retail Master Data Integration

Context

After you setup the interface for integrating retail master data, the required message types are assigned to partner profiles. You can perform the following steps to verify the assignment of message types of the IDOCs used in retail master data integration:

> **Note**
>
> You must have assigned the `ARBCIGR_ARTMAS` basic type to the SAP Ariba ARTMAS IDOC before you assign ARTMAS message type to the partnet profile.
>
> For more information, see Assigning Basic Type to SAP Ariba ARTMAS IDOC [page 144]

Procedure

1. On the *SAP Easy Access* page, run the `we20` transaction.

   The *Partner Profiles* page appears.
2. On the left-side panel, under *Partner Profiles*, navigate to the *Partnet Type LS* folder and expand it.
3. Select the logical system that you have used for setting up the interface to configure the connections to SAP Integration Suite, managed gateway.
4. On the right-side panel, view the following:

   In the *Outb. Parameters* table, under *Message Type*, view following message types:

   - WMERCAT
   - CHRMAS
   - CLSMAS
   - ARTMAS
   - BOMMAT
   - ALEAUD

   In the *Inbound Parmtrs* table, under *Message Type*, view following message types:

   - ARTMAS
   - BOMMAT

Implementing the BAdI to Set Up the Interface for SAP Ariba Strategic Sourcing Suite

Context

Implement this BAdI to modify parameters for any of the SAP Ariba solutions. Use the SRC - Ariba Strategic Sourcing (SAP Ariba Sourcing and SAP Ariba Contracts) parameter in the **IP_SOLUTION** field.

Procedure

1. Run the transaction code **SPRO**.

   The Customizing: Execute Project page appears.
2. Click **SAP Reference IMG**.

   The Display IMG page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Strategic Sourcing Suite Integration** > **General Settings** > **Setup the Interface** > **Business Add-Ins (BAdIs)**

   The **Create Enhancement Implementation** dialog box appears.

4. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.

    - BAdI name: `ARBCIG_AUTO_INTERFACE`
    - Implementation methods:
        - `CHANGE_MESSAGE_OUT`: To change message parameters for outbound IDocs
        - `CHANGE_MESSAGE_IN`: To change message parameters for inbound IDocs
        - `CHANGE_PARTNER_HEADER`: To change partner header for IDocs
        - `CHANGE_OUT_IDOC_IN`: To change outbound IDocs message control
        - `CHANGE_PROXY`: To change parameters when setting up service name or logical port for proxies

Working with Master Data

Common Settings to Import Master Data for All SAP Ariba Solutions [page 58]

Importing Master Data for SAP Ariba Procurement Solutions [page 84]

Importing Master Data for SAP Ariba Sourcing and SAP Ariba Contracts [page 128]

Importing Master Data for More than One SAP Ariba Solution [page 171]

Configuring Supplier Data Integration with SAP Integration Suite, managed gateway [page 177]

Integration to Support Master Data Native Integration [page 205]

Common Settings to Import Master Data for All SAP Ariba Solutions

Configuring External Commands for Operating System [page 59]

Configuring Ariba Incremental Extract Event [page 61]

Configuring Ariba Master Data Incremental Field Restrictions [page 62]

Configuring Ariba User HR Event Linkage [page 63]

Configuring Connection Parameters [page 65]

Maintaining System ID for Master Data [page 66]

Maintaining Date and Time Stamp for Master Data [page 66]

Importing Bill of Materials from SAP ERP to SAP Ariba Sourcing [page 67]

Importing Bill of Materials from SAP ERP or SAP S/4HANA to SAP Business Network [page 70]

Maintaining User Profiles for User Master Data [page 74]

Maintaining Field Map for Master Data and Catalog Upload Request [page 75]

Scheduling a Job for Master Data Export [page 76]

Implementing BAdI for Master Data Export [page 76]

Exporting the Change Master to SAP Ariba [page 79]

Scheduling a Job for the Change Master [page 80]

Implementing BAdI for the Change Master [page 80]

Resending Master Data or Catalog Upload Request [page 81]

Maintaining Logical File Path for Master Data [page 82]

Configuring External Commands for Operating System

Configure the commands on SAP ERP or SAP S/4HANA and associate them with the operating system commands. This is a one-time activity and a mandatory configuration.

Context

To configure the external commands for operating system, perform the following steps:

Procedure

1. Create your own directory on the SAP ERP or SAP S/4HANA system and give the Read and Write permissions to the directory. For example, if you use Windows, you specify C:\Ariba. For Unix-based system, specify, /home/Ariba.
2. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
3. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
4. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **General Settings** > .
5. Click **IMG-Activity** for **Configure External Commands for Operating System**.

   The **External Operating System Commands** screen appears.
6. Click **Create**.

   The **External Commands** screen appears.
7. Maintain the following values for the operating system:

Command Name	Operating System	Operating System Command	Parameters for operating system command
ZSSPDIRCREATE	Windows NT	`cmd`	`/C mkdir ?`
ZSSPDIRCREATE	Linux, AIX	`mkdir`	`-p ?`
ZSSPDIRREMOVE	Windows NT	`cmd`	`/C rmdir /q /s ?`
ZSSPDIRREMOVE	Linux, AIX	`rm`	`-r ?`
ZSSPMOVE	Windows NT	`cmd`	`/C move ? ?`
ZSSPMOVE	Linux, AIX	`mv`	`?`

   For extra security, you can run the external commands of the application server's operating system in a designated directory. You can specify the application server path to this directory in the operating system

command. In the following table, see the examples for specifying the application server path to designated directories for Windows, Linux, and AIX:

Command Name	Operating System	Operating System Command	Parameters for operating system command
ZSSPDIRCREATE	Windows NT	`cmd`	`/C mkdir C:\Ariba?`
ZSSPDIRCREATE	Linux, AIX	`mkdir`	`-p /home/Ariba?`
ZSSPDIRREMOVE	Windows NT	`cmd`	`/C rmdir /q /s C:\Ariba?` **Note** If the **Archive Directory** is set in the Resending Master Data or Catalog Upload Request [page 81], maintain the rest of the file path, for example `(usr/sap/tmp)`.
ZSSPDIRREMOVE	Linux, AIX	`rm`	`-r /home/Ariba?` **Note** If the **Archive Directory** is set in the Resending Master Data or Catalog Upload Request [page 81], maintain the rest of the file path, for example `(usr/sap/tmp)`.
ZSSPMOVE	Windows NT	`cmd`	`/C move C:\Ariba? C:\Ariba?`
ZSSPMOVE	Linux, AIX	`mv`	`/home/Ariba? /home/Ariba?`

8. Check **Additional Parameter Allowed**.

> **Note**
>
> Maintain the parameters based on the operating system you use. It is not necessary to maintain the parameters for all the operating systems.

Configuring Ariba Incremental Extract Event

Configure the master data that you would like to export. This is a one-time activity and a mandatory configuration to run the incremental load for master data.

Context

To configure the incremental extract event, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **General Settings**.
4. Click **IMG-Activity** for **Configure Ariba Incremental Extract Event**.

   The **Ariba Incremental Extract Event Configuration** screen appears.
5. Choose the master data that you want to configure for incremental export.
6. Click **Execute**.

   The **Display logs** screen appears with the details of the configured master data extract events.

   > ### Note
   >
   > You can also see the details using the Tcode **SLG1** with the **ARBCIG_UTILITY** object and the **CONFIG** subobject.

Configuring Ariba Master Data Incremental Field Restrictions

You need to set up the field restrictions manually in the SWEC table.

Context

Perform the following steps to configure the incremental field restrictions for master data:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **General Settings** > .
4. Click **IMG-Activity** for **Ariba Master Data Incremental Field Restrictions**.

   The **Ariba Master Data Incremental Field Restrictions** screen appears.
5. Select a master data extract object. For example,

Incremental Export	Object	Object Type	Event (Change)	Event (Create)	Event (Delete)
ASSET	ANLA	ARBCIG1022	ASSETCHANGED		

> **Note**
>
> Make a note of the object type, event, and the action type (create, change, or delete) for the selected object.

6. Click **Execute**.

   The **Ariba Master Data Incremental Field Restrictions** screen appears with the details of the configured restrictions.

> **Note**
>
> For best results, configure the SWEC events and the field restrictions based on your scenario.

7. Press Ctrl+C to copy the content of the page. Note that the content is already selected.
8. Run the transaction code SWEC.

The **Change View "Events for Change Document": Overview** screen appears.

9. Locate the object with the same object type, event, and action type. For example,

Change Doc Object	Object Category	Business Object Type	Event	On Create	On Change	On Delete
ANLA	BOR Object Type	ARBCIG1022	ASSETCHANGED		X	

10. Select event line in change mode.
11. Double-click **Field Restrictions** folder in the left pane.

    The **Change View "Field Restrictions": Overview** screen appears.
12. Click **Condition Editor**.
13. If the direct text entry mode is not configured for your user interface, perform the following steps:
    - Click **Utilities** > **Settings**.
    - On the **Condition Editor: Personal Settings** page, select **Direct text entry (traditional mode)**.
    - Save the configuration.
14. Click **New rows** to include the content for field restriction.

    > **Note**
    >
    > Ensure that the number of rows you add is equal to the number of rows of content that you copied in Step 7.

15. Click column for **Expression 1** and paste the copied content for field restrictions.
16. Click **Back** and enter the **Transport Request** number.
17. Click **Save**.

Configuring Ariba User HR Event Linkage

Context

Perform the following steps to configure HR event linkages:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **General Settings** .
4. Click **IMG-Activity** for **Ariba User HR Event Linkage**.

   The **Change View HR-CA: Event Linkage for Customer: Overview** screen appears.
5. Click **New Entries** and enter the following information:

Object Type	Object Type Text	Infotype	Update operation	Sequence Number	Object Type	Function Module
P	Person	0001	INS	0	ARBCIG1065	ARBCIG_HRPM_CHANGE_DOCS
P	Person	0001	UPD	0	ARBCIG1065	ARBCIG_HRPM_CHANGE_DOCS
P	Person	0002	UPD	0	ARBCIGTNT	ARBCIG_HRPM_CHANGE_DOCS
P	Person	0105	DEL	0	ARBCIGEMPL	ARBCIG_HRPM_CHANGE_DOCS
P	Person	0105	INS	0	ARBCIGEMPL	ARBCIG_HRPM_CHANGE_DOCS
P	Person	0105	UPD	0	ARBCIGEMPL	ARBCIG_HRPM_CHANGE_DOCS

> **Note**
>
> If you get the following error message:
>
> `No Entry exists in T777IBO table`
>
> Maintain the following entry in the `T777IBO` table.

OT	Object type text	IT	Object type	Name
`P`	`Person`	`0001`	`ARBCIG1065`	Add a meaningful name.

6. Click **Next Entry** and enter the information for the next record.
7. Repeat steps 5 to 6 for all entries and click **Save**.

Configuring Connection Parameters

Context

Add the realms for each Ariba solution that can be used to process master data events.

> **Note**
>
> In this configuration task, you maintain the data in the `ARBCIG_AUTHPARAM` table. To use this table in a new SAP system landscape, you must maintain the data manually.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Connection Parameters** .
4. Click **IMG-Activity** for **Connection Parameters for Master Data**.

   The **Change View "Direct Connectivity Parameters": Overview** screen appears.
5. Click **New Entries** in the application toolbar to add new entries.
6. Enter the following details:
   - **Solution**: Select a solution name from the list.
   - **Realm**: Add a realm name.
   - **Par**: Select the checkbox if this is a parent realm.
   - **Wait Time**: Add time in seconds to wait to connect to the gateway.

     > **Note**
     >
     > Do not enter values for **Logical Port Name**.
7. Click **Save**.

Maintaining System ID for Master Data

Context

Maintain a unique identifier for the SAP vendor for your SAP Ariba Procurement solutions. You require this configuration only if you import master data for suppliers.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Maintain System ID for Master Data**.
4. Click **IMG-Activity** for **Maintain System ID for Master Data**.

   The **Change View "System ID For Customers": Overview** screen appears.
5. Click **New Entries** in the application toolbar to add new entries.
6. Enter the following details:
   - **System ID**: Enter the system ID of the vendor ERP system.
   - **Vendor**: Enter vendor code.
7. Click **Save**.

Maintaining Date and Time Stamp for Master Data

For an incremental extract of master data, maintain the date and time stamp.

Context

Follow these steps to set the date and time stamp for master data.

> **Note**
>
> In this configuration task, you maintain the data in the `ARBCIG_INCRDTTIM` table. To use this table in a new SAP system landscape, you must maintain the data manually.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Maintain Date Time Stamp for Master Data** .
4. Click **IMG-Activity** for **Maintain Date Time Stamp for Master Data**.

   The **Change View "Date and Time stamp for Master Data": Overview** screen appears.
5. Click **New Entries** in the application toolbar to add new entries.
6. Enter the following details:
   - **Extract**: Select an extract from the list.
   - **Realm**: Add a realm name.
   - **Date Time stamp**: Add date and time stamp in **`YYYYMMDDHHMMSS`** format.
   - **Variant**: (Optional) The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2.
   - **Partition**: (Optional) The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2.
7. Click **Save**.

Importing Bill of Materials from SAP ERP to SAP Ariba Sourcing

Procedure

1. Run the `ARBCIG_BOM_REPLICATE` program.

   The **Extract BoMs to SAP Ariba Solutions** screen opens.
2. Check **Test Mode** when you want to run the program and validate the contents in the .zip file. Enter the file path, where you want to download the .zip file.
3. In the section **Execution Mode**, choose one of the following:
   - **Full Load**: Imports all the BOMs that are available.
   - **Incremental Load**: Imports the BOMs that have been updated since the last BOM data extraction was done (not in `Test Mode`) from SAP ERP.

> ### Note
>
> The date range is not mandatory. The program extracts the from date and time from the last instance of the program run. The to date will be the current date and time.

4. Enter the values for **Variant** and **Partition** fields.
5. You can filter the BOMs by the following:

Filter	Descriptions
Material	Use this to filter by material
BoM Number	Use this to filter by BOM number
Plant	Use this to filter by plant
Usage	Use this to filter by usage
Alternative	Use this to filter by alternative BOMs

6. > ### Note
   >
   > **Parallel Processing** is not available in Test Mode.

   Check **Parallel Processing** to expedite the export of BOMs, when you have big list of BOMs to be exported. Enter the packet size.
7. Click **Execute**.
   - If you had checked **Test Mode**, the BOMs get downloaded in a .zip file on your SAP application server. The screen displays the number of BOMs, and the location (your SAP application server) of the .zip file downloaded.
   - If you did not check **Test Mode**, the `ARBCIG_BOM_REPLICATE` program exports the BOMs from SAP ERP to product sourcing via SAP Integration Suite, managed gateway.

Scheduling a Job for the Bill of Materials

Context

You can schedule a background job to run the task of importing the bill of materials.

Procedure

1. Run the transaction code `SM36`.

   The **Define Background Job** page appears.
2. Enter a name for the background job in the **Job name** field.
3. Specify the job class in the **Job name** field.
4. (Optional) Specify the server system in the **Exec. Target** field.

5. Specify the conditions for the scheduled job to run a full or incremental load.
6. Click **Step** and schedule the program `ARBCIG_BOM_REPLICATE` to import the bill of materials.
7. Save the changes.

> **Note**
>
> - You can also run the `ARBCIG_BOM_REPLICATE` program to import the bill of materials manually using the `ARBCIG_BOM_REPL`transaction code.

Implementing BAdI for Bill of Materials Export

Use BAdI to customize BOM fields.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Enhancements** > **Business Add-Ins(BAdIs)** > **BAdIs for Bill of Material** > .
4. Click **IMG-Activity** for **BAdIs for Bill of Material**.

   The **Implementations for BAdI ARBCIG_BOM_MASTERDATA** screen appears.
5. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: **ARBCIG_BOM_MASTERDATA**.
     Implement the method **PUBLISH_BILLOFMATERIALS** to customize the payload before exporting the BOM to product sourcing.

Importing Bill of Materials from SAP ERP or SAP S/4HANA to SAP Business Network

Perform the following steps to import bill of materials from SAP ERP or SAP S/4HANA to SAP Business Network.

Procedure

1. Run the `ARBCIG_BOM_REPLICATE` program or the transaction code `ARBCIG_BOM_REPL`.

   The **Extract BoMs to SAP Ariba Solutions** screen appears.
2. Check **Test Mode** if you want to run the program and validate the contents in the .zip file.
3. In the section **File path**, enter the file path, where you want to download the .zip file.
4. In the section **Solution**, choose SAP Business Network for exporting BOM from SAP ERP or SAP S/4HANA to SAP Business Network.
5. In the section **Execution Mode**, choose one of the following:
   - **Full Load**: Imports all the BOMs that are available.
   - **Incremental Load**: Imports the BOMs that have been updated into the `Date and Time stamp for Master Data` table since the last BOM data extraction (not in **Test Mode**) from SAP ERP or SAP S/4HANA.

   > ### Note
   >
   > The date range is not mandatory. However, if the date and time ranges are provided, the program extracts the BOM data based on these values.
6. You can use the following filters for BOMs:

Filter	Descriptions
Material	Use this to filter by material
BoM Number	Use this to filter by BOM number
Plant	Use this to filter by plant
Usage	Use this to filter by usage
Alternative	Use this to filter by alternative BOMs

   > ### Note
   >
   > For SAP Business Network, the last run `DateTime stamp` is not updated to the `Date and Time stamp for Master Data` table if you run the report with any one of the BOM filter values.
7. Check **Parallel Processing** to expedite the export of BOMs when you have a number of BOMs to be exported. Enter the packet size.

   > ### Note
   >
   > **Parallel Processing** is not available in **Test Mode**.

8. Click **Execute**.
    - If you have checked **Test Mode**, the BOMs get downloaded in a .zip file on your SAP application server. The screen displays the number of BOMs and the location (your SAP application server) to which the .zip file is downloaded.
    - If you did not check **Test Mode**, the `ARBCIG_BOM_REPLICATE` program exports the BOMs from SAP ERP to SAP Business Network through SAP Integration Suite, managed gateway.

Configuring the Interface to Import Bill of Materials from SAP ERP or SAP S/4HANA to SAP Business Network

Perform the following steps to configure the interface to import bill of materials from SAP ERP or SAP S/4HANA to SAP Business Network.

Procedure

1. Run the transaction code `SPRO`.

    The **Customizing: Execute Project** page appears.
2. Click **SAP Reference IMG**.

    The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **General Settings** > **Setup the Interface**
4. Click **IMG-Activity** for **Configure the Connections to Send Messages**.
5. Check the **BOM Replicate request** checkbox.

Implementing BAdi for Bill of Materials Export

Use BAdI to modify the content of BOM extraction data before initiating the BOM interface.

Procedure

1. Run the transaction code `SPRO`.

    The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

    The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Business Add-Ins(BAdIs)** > **Bill Of Material** > **BAdIs for Bill of Material** > .
4. Click **IMG-Activity** for **BAdIs for Bill of Material**.

   The **Implementations for BAdI ARBCIG_BOM_MASTERDATA** screen appears.
5. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: **ARBCIG_BOM_MASTERDATA**.
     Implement the method **PUBLISH_BILLOFMATERIALS** to modify the content of BOM extraction data before initiating the BOM interface.

Scheduling a Job for the Bill of Materials

Context

You can schedule a background job to run the task of importing the bill of materials.

Procedure

1. Run the transaction code `SM36`.

   The **Define Background Job** page appears.
2. Enter a name for the background job in the **Job name** field.
3. Specify the job class in the **Job name** field.
4. (Optional) Specify the server system in the **Exec. Target** field.
5. Specify the conditions for the scheduled job to run a full or incremental load.
6. Click **Step** and schedule the program `ARBCIG_BOM_REPLICATE` to import the bill of materials.
7. Save the changes.

> ⓘ Note
>
> - You can also run the `ARBCIG_BOM_REPLICATE` program to import the bill of materials manually using the `ARBCIG_BOM_REPL` transaction code.

Maintaining Date and Time Stamp for BOM

For an incremental extract of BOM data, maintain the date and time stamp.

Context

Follow these steps to set the date and time stamp for BOM.

> **Note**
>
> In this configuration task, you maintain the data in the `ARBCIG_INCRDTTIM` table. To use this table in a new SAP system landscape, you must maintain the data manually. This is a one-time activity prior to executing the incremental load for the first time.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Bill Of Material** > **Maintain Date Time Stamp for BOM**.
4. Click **IMG-Activity** for **Maintain Date Time Stamp for BOM**.

   The **Change View "Date and Time stamp for Master Data": Overview** screen appears.
5. Click **New Entries** in the application toolbar to add new entries.
6. Enter the following details:
   - **Extract**: Select an extract `'STUE' (BOM)` from the list.
   - **Realm**: Leave it blank.
   - **DateTime stamp**: Add date and time stamp in **`YYYYMMDDHHMMSS`** format.
   - **Variant**: Leave it blank.
   - **Partition**: Leave it blank.
7. Click **Save**.

Maintaining User Profiles for User Master Data

Configure the user roles mapped to each solution.

Context

This is required for user master data extraction. Maintain relevant roles applicable for Ariba solutions. You need to also maintain the realm information if you are an FPC-enabled customer.

> **Note**
>
> In this configuration task, you maintain the data in the `ARBCIG_USR_GRP` table. To use this table in a new SAP system landscape, you must transfer the data using a transport.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Maintain User Profiles for User Master Data** .
4. Click **IMG-Activity** for **Maintain User Profiles for User Master Data**.

   The **Change View "Table to hold the user roles mapped to groups": Overview** screen appears.
5. Click **New Entries** in the application toolbar to add new entries.
6. Enter the following details:
   - **Solution**: Select the solution name from the list.
   - **Role**: Select the user role to be mapped with the solution.
   - **Realm**: Add a realm name.
7. Click **Save**.

Maintaining Field Map for Master Data and Catalog Upload Request

Map the custom fields in SAP ERP to Ariba solution custom fields for master data and catalog extracts.

Context

This is an optional activity. Do not change the default values.

> **Note**
>
> In SAP ERP, the fields are always in upper case but in SAP Ariba solutions, it is in mixed case.

You can add new fields if you have defined custom fields in SAP Ariba solutions. For example, if you have added `Cus_JurisdictionCode` field for plant extract to SAP Ariba Procurement solutions and want to send the jurisdiction code from SAP ERP, you can enhance the structure `ARBCIG_PLANT` with the field `TXJCD` and maintain the below information in the table:

> **Note**
>
> In this configuration task, you maintain the data in the `ARBCIG_FIELDMAP` table. To use this table in a new SAP system landscape, you must transfer the data using a transport.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Enhancements**.
4. Click **IMG-Activity** for **Maintain Field Map for Master Data or Catalog Upload Request**.

   The **Change View "Maintain SAP to Buyer fields mapping": Overview** screen appears..
5. Click **New Entries** in the application toolbar to add new entries.
6. Enter the following details:
   - **Solution**: Select a solution from the list for which you are mapping the field.
   - **Structure**: Add a structure name. For example, `ARBCIG_BP_LANG_STR`
   - **Field SAP**: Add the SAP ERP field name that you want to map. For example, `BUDGETPDTX`
   - **Field Ariba**: Add the Ariba solution field name to which you want to map. For example, `Name`
7. Click **Save**.

Scheduling a Job for Master Data Export

You can schedule a job to export master data from SAP ERP to SAP Ariba solutions.

Context

Ensure that you have configured the `ARBCIG_MASTER_DATA_EXPORT` program before scheduling the export job. For more information, see the following topics:

- Importing Master Data from SAP ERP to SAP Ariba Procurement Solutions [page 113]
- Importing Master Data from SAP ERP to SAP Ariba Sourcing and SAP Ariba Contracts [page 137]

Follow the below steps to schedule job for master data.

Procedure

1. Run the transaction code `SM36`.

   The **Define Background Job** screen appears.
2. Schedule the Program `ARBCIG_MASTER_DATA_EXPORT`.

Implementing BAdI for Master Data Export

Maintain the BAdI **ARBCIG_MASTERDATA** for master data export.

Context

To maintain BAdI for master data export, perform the following steps:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Enhancements** > **Business Add-Ins(BAdIs)** > **Master Data Export** .
4. Click **IMG-Activity** for **Master Data Export**.

   The **Business Add-Ins: All Implementations for Definition MASTER_DATA** screen appears.
5. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: **ARBCIG_MASTERDATA**

   The following table lists methods that you can implement:

Method Name	Description
PUBLISH_COMPANYCODE	Publishes company code details after processing
PUBLISH_PLANT	Publishes Plant Details After Processing
PUBLISH_PREFILTER	Publishes Prefilter Details After Processing
PUBLISH_PURCHASE_GROUP	Publishes Purchase Group Details After Processing
PUBLISH_PURCHASE_ORGANIZATION	Publishes Purchase Organization Details After Processing
PUBLISH_ACCOUNT_CATEGORY	Publishes Account Category Details After Processing
PUBLISH_ASSET	Publishes Asset Details After Processing
PUBLISH_COST_CENTER	Publishes Cost Center Details After Processing
PUBLISH_GENERAL_LEDGER	Publishes General Ledger Details After Processing
PUBLISH_INTERNAL_ORDER	Publishes Internal Order Details After Processing
PUBLISH_WBS	Publishes WBS Details After Processing
PUBLISH_MATERIAL_GROUP	Publishes Material Group Details After Processing
PUBLISH_CURRENCY_CONVERSION	Publishes Currency Conversion Details After Processing
PUBLISH_PLANT_PURCHAGE_ORG	Publishes Plant Purchase Organization Details After Processing
PUBLISH_ACCOUNT_FIELD	Publishes Account Field Details After Processing
PUBLISH_VENDOR_ONLY	Publishes Vendor Only Details After Processing
PUBLISH_VENDOR	Publishes Vendor Details After Processing
PUBLISH_MINORITY_VENDOR	Publishes Minority Vendor Details After Processing
PUBLISH_TAX_CODE	Publishes Tax Code Details After Processing
PUBLISH_COST_CENTER_NAMES	Publishes Cost Center Names Details After Processing
PUBLISH_GENERAL_LEDGER__NAMES	Publishes General Ledger Names Details After Processing
PUBLISH_MATERIAL_GROUP_NAMES	Publishes Material Group Names Details After Processing
PUBLISH_TAX_CODE_NAMES	Publishes Tax Code Names Details After Processing
PUBLISH_ACCOUNT_CAT_NAMES	Publishes Account Category Names Details After Processing
PUBLISH_ADDITIONAL_DATA	Publishes File Path Details After Processing

Method Name	Description
PUBLISH_PAYMENT_TERMS	Publishes Terms of Payment details after processing
PUBLISH_USER_DATA	Publishes User Data
MODIFY_USER_DATA	Modify User Data
PUBLISH_USER_GROUP	Publishes User Data
PUBLISH_SUPPLIER_LOC	Publishes Supplier Location
PUBLISH_REMITTANCE_LOC	Publishes Remittance Location
PUBLISH_PAYMENT_TERM_LANG_PULL	Publishes Payment Terms Language Pull
PUBLISH_SUPPLIER_INCREMENT	Publishes Supplier Incremental
PUBLISH_ACCOUNTING_INFO	Publishes Accounting Info to Fieldglass
PUBLISH_FUND_INFO	Publishes Fund Information to Ariba
PUBLISH_FMAREA_INFO	Publishes FMArea Information to Ariba
PUBLISH_FUND_CTR_INFO	Publishes Funds Center Information to Ariba
PUBLISH_EARMARKED_INFO	Publishes Earmarked header information to Ariba
PUBLISH_ITEMEARMARKED_INFO	Publishes Earmarked Item information to Ariba
PUBLISH_COMMITMENT_INFO	Publishes Commitment Item Information to Ariba
PUBLISH_FUNCTAREA_INFO	Publishes Functional Area Information to Ariba
PUBLISH_GRANT_INFO	Publishes FM Grant Information to Ariba
PUBLISH_INCOTERMS	Customize Incoterms Export Information to Ariba
PUBLISH_BP_EXPORT	Publishes Budget Period Infoormation to Ariba
PUBLISH_COMMIT_LANG_INFO	Publishes Commitment language Information to Ariba
PUBLISH_FMAREA_LANG_INFO	Publishes FMArea language Information to Ariba
PUBLISH_GRANT_LANG_INFO	Publishes Grant language Information to Ariba
PUBLISH_FUNCTAREA_LANG_INFO	Publishes Functional Area language Information to Ariba
PUBLISH_FUNDCTR_LANG_INFO	Publishes Fund Center language Information to Ariba
PUBLISH_FUND_LANG_INFO	Publishes Fund language Information to Ariba
PUBLISH_BP_LANG_INFO	Publishes Budget Period language Information to Ariba
PUBLISH_MATERIALMASTER	Publishes Material master Information to Ariba
PUBLISH_ITEMCATEGORY	Publishes Item category Information to Ariba
UPDATE_WHERETAB	Customize where tab
PUBLISH_BILLOFMATERIALS	Publishes Bill Of Materails Information to Ariba
MODIFY_DATA_BEFORE_WRITE	Modify Master Data Before Exporting the File

Exporting the Change Master to SAP Ariba

Context

Run the transaction code `ARBCIG_CHANGE_MASTER` to access the **Export Change Master to SAP Ariba** report. You can use this report to export the change master in three modes - full mode, incremental mode, and custom mode.

The program allows you to fetch a group of engineering change orders that fulfill a specified criteria and export them to SAP Ariba Strategic Sourcing Suite. You can configure different types of filter criteria to export change master.

> ⓘ Note
>
> When exporting change master data export in incremental mode, the filter **Change number** is not supported.

Procedure

1. Run the transaction code `ARBCIG_CHANGE_MASTER`.

   The **Export Change Master to SAP Ariba** screen appears.
2. In the section **Execution Options**, perform the following:

   (Optional) To display data on screen, check **Display Data** and specify the number of records that you want to display on the change master export screen at a time in the field **Limit Display Records**.
3. In the section **Extraction Options**, perform one of the following and set filters as needed:
   - To export change master in full load, choose **Full Mode**.
   - To export change master in incremental load, choose **Incremental Mode**.
   - To export change master in custom mode, choose **Custom Mode**.
     (Optional) To specify a date and time range for export of change master in custom mode, check **Timestamp** and enter:
     - The start date and time from which the change master must be considered for export in the fields **From Date/From Time**.
     - The end date and time until which the change master must be considered for export in the fields **To Date/To Time**.

   > ⓘ Note
   >
   > When you use the custom mode, timestamp is not updated in the table **ARBCIG_INCRDTTIM**.
4. In the section **Packaging Options**, in the field for **Packet Size**, specify the packet size.
5. Click **Execute**.

   The **Display Logs** screen appears listing the log for change master export.

Scheduling a Job for the Change Master

Context

You can schedule a background job to run the task of exporting the change master.

Procedure

1. Run the transaction code `SM36`.

   The **Define Background Job** page appears.
2. Enter a name for the background job in the **Job name** field.
3. Specify the job class in the **Job name** field.
4. Click **Step** and schedule the program `ARBCIG_CHANGE_MASTER_EXPORT` to export the change master.
5. Save the changes.

> ### Note
>
> - You can also run the `ARBCIG_CHANGE_MASTER_EXPORT` program to export the change master manually using the transaction code `ARBCIG_CHANGE_MASTER`. For more information, see Exporting the Change Master to SAP Ariba [page 79].

Implementing BAdI for the Change Master

Use this BAdI to customize change master fields.

Context

You can use this BAdI to customize change master fields.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.

2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Enhancements** > **Business Add-Ins(BAdIs)** > **BAdIs for Change Master**.
4. Click **IMG-Activity** for **BAdIs for Change Master**.

   The **Implementations for BAdI Definition ARBCIG_CHANGE_REQUEST** screen appears.
5. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - Enhancement Spot: **ARBCIG_CHANGE_MASTER**
   - BAdI name: **ARBCIG_CHANGE_REQUEST**
     Implement the method **PUBLISH_CHANGEMASTER** to customize the payload before exporting the change master to product sourcing.

Resending Master Data or Catalog Upload Request

Context

If you want to resend the catalog upload request and master data except bill of materials to SAP Ariba solutions, you can do so using the master data activity **Resend Master Data or Catalog Upload Request**.

Perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration**.
4. Click **IMG-Activity** for **Resend Master Data or Catalog Upload Request**.

   The **Resend Batch Extracts to Managed Gateway for Spend&Network** screen appears.
5. Enter the following details:
   - **File Name**: Select the archived file.
   - **Variant**: Provide the variant if you want to resend the sourcing master data.
   - **Partition**: Provide the partition if you want to resend the sourcing master data.
6. (Optional) If you want to delete the archived files, enter the following details:

- **Archive Directory**: Select the directory where the files are archived. For example, `/archives/master`. Maintain the rest of the file path in Configuring External Commands for Operating System [page 59] using the `ZSSPDIRREMOVE` command.
- **Till Date**: Select a date. Archived files before this date would be removed.

7. Click **Execute**.

Maintaining Logical File Path for Master Data

Context

If you have opted for security code vulnerability analysis (CVA) check as a part of extended program check, you must maintain a logical file path in order to validate the dynamic file access for directory traversal risk. Maintaining the logical file path enables you to overcome the security check (SEC CODE 1104) and eliminate potential code injection risk.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **General Settings** > **Maintain Parameters** > **Logical File Path**.
4. Click **IMG-Activity** for **Logical File Path**.

   The **Parameters - Logical File Name for Master Data** screen appears.
5. Maintain the parameter **`ARBCIG_LOGICAL_FILE_NAME`**:

Parameter name	Description	Supported values
ARBCIG_LOGICAL_FILE_NAME	Applicable for SAP Ariba Cross Application solutions. This is an optional field. Maintain this parameter with logical file path name created in transaction **FILE** to enable file validation as a solution to directory traversal security check.	• **Variable Name**: ARBCIG_LOGICAL_FILE_NAME • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: Enter the logical file path name created in the transaction **FILE**. For example, **ARBCIG_LOGICAL_FILE_PATH**

6. Run the transaction code `FILE` and define the logical file path.

   The **Change View "Logical File Path Definition": Overview** screen appears.

   Click on **New Entries** and define the logical file path.

   If you get the warning message **Choose the key from the allowed namespace**, press **Enter** and continue with the following steps to create the entry in the `FILE` transaction.

Logical File Path	**ARBCIG_LOGICAL_FILE_PATH** (for example)
Name	**Logical file path** (for example)

7. Choose entry **ARBCIG_LOGICAL_FILE_PATH** from sub-dialog **Logical File Path Definition** and double-click on **Assignment of Physical Paths to Logical Path**.

   The **Change View "Assignment of Physical Paths to Logical Path": Details** screen appears. Maintain Physical path.

Logical path	**ARBCIG_LOGICAL_FILE_PATH**
Name	**Logical file path**
Syntax group	**UNIX All UNIX Platforms**
Physical path	**/temp/<FILENAME>** (for example)

8. Double-click **Logical File Name Definition** to maintain logical file name definition.

   This is the logical file name maintained in the field **Low** in step 5.

   The **Change View "Logical File Name Definition, Cross-Client": Overview** screen appears. Maintain logical file name definition.

Logical File	**ARBCIG_LOGICAL_FILE_NAME**
Name	**ARBCIG LOG FILE NAME**

9. Double-click the logical file name **ARBCIG_LOGICAL_FILE_NAME** to maintain the definition and provide logical path created in step 5 and 6.

   The **Change View "Logical File Name Definition, Cross-Client": Details** screen appears.

Log. File	**ARBCIG_LOGICAL_FILE_NAME**

Name	ARBCIG LOG FILE NAME
Physical file	Leave it blank
Data format	DIR
Applcat.area	BC
Logical path	ARBCIG_LOGICAL_FILE_PATH

Importing Master Data for SAP Ariba Procurement Solutions

Maintaining Parameters for SAP Ariba Procurement Solutions [page 85]

Maintaining Filters for SAP Ariba Procurement Solutions [page 91]

Importing Master Data from SAP ERP to SAP Ariba Procurement Solutions [page 113]

Maintaining Parameters to Import Payment Terms Master Data [page 115]

Importing Master Data for Catalogs [page 116]

Maintaining Parameters for Catalog Upload Requests [page 120]

Implementing BAdI for Catalog Upload Request [page 123]

Scheduling the Job for Catalog Upload Requests [page 124]

Monitoring the Status of Uploaded Catalog Files [page 124]

Creating a Dummy Asset Value [page 125]

Implementing BAdI for the Input Tax Code and the Withholding Tax Code Master Data Export [page 125]

Maintaining the Mapping of the Input Tax Code Details in SAP with the Relevant Tax Types in SAP Ariba [page 126]

Enhancing the Output Structures to Send Additional Input and Withholding Tax Code Information [page 127]

Maintaining Parameters for SAP Ariba Procurement Solutions

Maintain the required parameters for SAP Ariba Procurement solutions.

Context

To maintain parameters for SAP Ariba Procurement solutions, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **General Settings** > **Maintain Parameters** > **Procurement** .
4. Click **IMG-Activity**for **Procurement**.

   The **Parameters - Ariba Procurement Master Data** screen appears.
5. Maintain the following parameters:

Parameter name	Description	Supported values
BALANCE_SHEET_ACCOUNTS	Applicable for SAP Ariba Procurement solutions. This is an optional field. Set this parameter to enable General Ledger Export extract to pull and use balance sheet accounts.	• **Variable Name**: BALANCE_SHEET_ACCOUNTS • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Low**: Specify 'allow' to fetch the details or 'disallow' if you do not want to fetch. **Note** The values you enter is this field is case-sensitive.
CHANGELOG_RETENTION_DAYS	Applicable for SAP Ariba Procurement solutions. This is a mandatory field for exporting master data to multi-ERP-enabled systems. You need not maintain this parameter if you have a single ERP system. Set this parameter to specify the number of days you want SAP ERP to retain the change records log in the table `ARBCIG_CHANGEDOC`. When the configured retention period expires, SAP ERP clears the change log.	• **Variable Name**: CHANGELOG_RETENTION_DAYS • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Low**: Example - 10 •

Parameter name	Description	Supported values
CURR_CONV_BANK_RATE	Applicable for SAP Ariba Procurement solutions. It is mandatory to maintain one of these parameters: • CURR_CONV_BANK_RATE • CURR_CONV_EURO_RATE Set this parameter to maintain bank rate for currency conversion.	• **Variable Name**: CURR_CONV_BANK_RATE • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Low**: Specify "B" to maintain bank rate. Leave it blank if you want to specify Euro rate.
CURR_CONV_DAYS_PAST	Applicable for SAP Ariba Procurement solutions. This is an optional field to fetch historical currency conversion details. Specify the number of days old historical currency conversion information to fetch.	• **Variable Name**: CURR_CONV_DAYS_PAST • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Low**: Example, specify 10, to fetch ten days old information.
CURR_CONV_EURO_RATE	Applicable for SAP Ariba Procurement solutions. It is mandatory to maintain one of these parameters: • CURR_CONV_EURO_RATE • CURR_CONV_BANK_RATE Set this parameter to maintain euro rate for currency conversion.	• **Variable Name**: CURR_CONV_EURO_RATE • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Low**: Specify "Euro" to maintain Euro rate. Leave it blank if you want to specify bank rate.

Parameter name	Description	Supported values
INTERNAL_ORDER_AUART	Applicable for SAP Ariba Procurement solutions. This is an optional field. This parameter specifies the order type of internal orders. SAP ERP can use the internal orders to create a purchase order of the order types that is not specified in this parameter. If you do not specify a value for AUART, you can create purchase orders from any internal order in which the AUART field of the order master data (AUFK): • Is not equal to a space. • Is not marked for deletion (LOEKZ). • Is not already ordered or released.	• **Variable Name**: INTERNAL_ORDER_AUART • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Low**: For example, 0650.
RL_BANK_DETAIL	Applicable for SAP Ariba Procurement solutions. This is an optional field. Set this parameter to fetch the bank details of the supplier. If this is not maintained, bank related fields will be empty in the `RemittanceLocationConsolidated.csv`.	• **Variable Name**: RL_BANK_DETAIL • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Low**: Specify 'X' to fetch the bank details or leave it blank if you do not want to fetch.
RL_VENDOR_ADDRESS	Applicable for SAP Ariba Procurement solutions. This is an optional field. Set this parameter to fetch the remittance address of the supplier. The address would be updated in two csv file: 1. `SupplierLocationConsolidated.csv` 2. `RemittanceLocationConsolidated.csv`	• **Variable Name**: RL_VENDOR_ADDRESS • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Low**: Specify 'X' to fetch the details or leave it blank if you do not want to fetch.

Parameter name	Description	Supported values
SL_VENDOR_ADDRESS	Applicable for SAP Ariba Procurement solutions. This is an optional field. Set this parameter to get vendor address. The vendor address would be used in `SupplierLocationConsolidated.csv` export.	• **Variable Name**: SL_VENDOR_ADDRESS • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Low**: Specify 'X' to fetch the details or leave it blank if you do not want to fetch.
VENDOR_ONLY_COUNTPORGS	Applicable for SAP Ariba Procurement solutions. This is an optional field. This parameter provides a filter to extract the vendors that are assigned to at least one purchasing organization.	• **Variable Name**: VENDOR_ONLY_COUNTPORGS • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Low**: Leave a blank value so that the Master Data Export pulls details of all the vendors regardless of the association with any purchasing organization. Specify 'X' to export the vendors that are assigned to at least one purchasing organization.

Parameter name	Description	Supported values
WBS_USE_CPD_UPDAT	Applicable for SAP Ariba Procurement solutions. Enable this parameter to allow WBS element incremental load extract based on the timestamp value in the **CPD_UPDAT** field in the PRPS table. **Note** The **CPD_UPDAT** field stores the timestamp value only when the PFP business function related to CPM (Commercial Project Management) is switched on. For more information about maintaining the timestamp value, see the Knowledge Base Article 2825940).	• **Variable Name**: WBS_USE_CPD_UPDAT • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Low**: Specify 'X' to enable WBS element incremental extract based on the value in the **CPD_UPDAT** field in the PRPS table. Leave a blank value to extract data based on the date value available in the AEDAT and ERDAT fields in the PRPS table.
FM_ACCOUNT_FIELD_STATUS_ENABLE	Applicable for SAP Ariba Buying and Invoicing. Set this parameter to extract the maximum possible set of field-status combinations. This new parameter extends the combinations and fetches the respective account categories.	• **Variable Name**:FM_ACCOUNT_FIELD_STATUS_ENABLE • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Buying and Invoicing in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Buying and Invoicing in SAP ERP. For example, PREALM_2. • **Low**: Specify 'X' or leave it blank.

Parameter name	Description	Supported values
PUSH_WAITTIME	Applicable for SAP Ariba Buying and Invoicing and for the ARBCIG_MASTER_DATA_EXPORT program. This is an optional parameter. This parameter provides a wait time (in seconds) when exporting the master data in consecutive proxy calls using the **Batch** field on the selection screen. Specify the wait time in seconds that the program must wait between each export of the master data.	• **Variable Name**: PUSH_WAITTIME • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Buying and Invoicing in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Buying and Invoicing in SAP ERP. For example, PREALM_2. • **Low**: Specify the wait time in seconds. The default wait time of this field is 5 seconds. You can leave this field blank if you do not want to implement a specific wait time at the program level. Any specific numeric value maintained in this field will override the default value of 5 seconds.

Maintaining Filters for SAP Ariba Procurement Solutions

Configure selection criteria to filter the master data to export.

Context

You can filter using the following conditions:

- Equality and inclusion: where **Option** is `EQ` and **Sign** is `I`.
- Ranges and exclusion: where **Option** is `BT` and **Sign** is `E`.
- Patterns and comparisons: where **Option** is `CP` and **Sign** is `I` or `E`.

You can maintain the following filters for the input tax code and the withholding tax code master data:

- `TAX_CODE_EXPORT_V1`
- `TAX_COMP_EXPORT`
- `WHTAX_CODE_EXPORT`
- `WHTAX_COMP_EXPORT_T001WT`
- `WHTAX_COMP_EXPORT_T059Z`

To maintain filters for SAP Ariba Procurement solutions, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **General Settings** > **Maintain Filters** > **Procurement**.
4. Click **IMG-Activity** for **Procurement**.

   The **Prefilters - Ariba Procurement Master Data** screen appears.
5. Click **Modify**.
6. In the **Prefilters - Ariba Procurement Master Data** page, select the prefilter, enter the values as described in the following table, and click **Enter**.

Filter name	Description	Supported values
ACCOUNT_CATEGORY_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This parameter allows you to export the account categories from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the field names that need to be included in each master data export batch task for the account categories.	• **Variable Name**: ACCOUNT_CATEGORY_EXPORT • **Field Name**: Field name that designates the account assignment categories and their properties in the table T162K. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. For example the account category name. • **High**: Blank if the option is not BT.

Filter name	Description	Supported values
ACCOUNT_CAT_NAMES_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This parameter allows you to export the category names in multiple languages for account categories from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the languages that need to be included in each master data export batch task for account categories. This filter is applicable to the ARBCIG_MASTER_DATA_LANG_EXPORT report.	• **Variable Name**: ACCOUNT_CAT_NAMES_EXPORT • **Field Name**: Field name that designates the account assignment category multi-lingual names in the table T163I. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. For example, DE. • **High**: Blank if the option is not BT.
ACCOUNT_FIELD_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This parameter allows you to export the field status of account categories from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the field statuses that need to be included in each master data export batch task for the account categories.	• **Variable Name**: ACCOUNT_FIELD_EXPORT • **Field Name**: Field name that designates the account category and field status information in the table T162K. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. For example, the account category field status. • **High**: Blank if the option is not BT.

Filter name	Description	Supported values
ASSET_CLASS_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This parameter allows you to export the asset class details from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the details that need to be included in each master data export batch task for the assets.	• **Variable Name**: ASSET_CLASS_EXPORT • **Field Name**: Field name that designates the asset class information in the table ANKA. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. For example, the asset class detail. • **High**: Blank if the option is not BT.
ASSET_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This parameter allows you to export the asset class details from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the details that need to be included in each master data export batch task for the assets.	• **Variable Name**: ASSET_EXPORT • **Field Name**: Field name that designates the asset information in the table ANKA. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. For example, the asset detail. • **High**: Blank if the option is not BT.

Filter name	Description	Supported values
BP_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This pre-filter allows you to export the budget period from the SAP ERP or SAP S/4HANA toSAP Ariba Procurement solutions. Configure a selection criteria to filter the budget period to be included in each master data export batch task for the funds.	• **Variable Name**: BP_EXPORT • **Field Name**: Field name that designates the budget period in the table FMBUDGETPD. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.
BP_LANG_STR	Applicable for SAP Ariba Procurement solutions. This is an optional field. This pre-filter allows you to export the names in multiple languages for budget period from the SAP Ariba Procurement solutions. Configure a selection criteria to filter the languages to include in each master data export batch task for the funds. This filter is applicable to the ARBCIG_MASTER_DATA_LANG_EXPORT report.	• **Variable Name**: BP_LANG_STR • **Field Name**: Field name that designates the budget period in the table FMBUDGETPD. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.

Filter name	Description	Supported values
COMMITMENT_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This pre-filter allows you to export the committed item from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the committed item to include in each master data export batch task for the funds.	• **Variable Name**: COMMITMENT_EXPORT • **Field Name**: Field name that designates the committed items in the table **FMCI**. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.
COMMIT_LANG_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This pre-filter allows you to export the names in multiple languages for committed items from the SAP ERP or SAP S/4HANA toSAP Ariba Procurement solutions. Configure a selection criteria to filter the languages to include in each master data export batch task for the funds. This filter is applicable to the ARBCIG_MASTER_DATA_LANG_EXPORT report.	• **Variable Name**: COMMIT_LANG_EXPORT • **Field Name**: Field name that designates the committed items in the table **FMCI**. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.

Filter name	Description	Supported values
COST_CENTER_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. : Field name that designates the committed items in the tableThis parameter allows you to export the cost center details from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the details that need to be included in each master data export batch task for costs centers.	• **Variable Name**: COST_CENTER_EXPORT • **Field Name**: Field name that designates the cost center information in the table **CSKS**. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. For example, the cost center. • **High**: Blank if the option is not BT.
COST_CENTER_NAMES_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This parameter allows you to export the cost center names in multiple languages from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the languages that need to be included in each master data export batch task for the cost center names. Configure a selection criteria to filter the cost center multi-lingual names to export. This filter is applicable to the ARBCIG_MASTER_DATA_LANG_EXPORT report.	• **Variable Name**: COST_CENTER_NAMES_EXPORT • **Field Name**: Field name that designates the multi-lingual names for cost center in the table **CSKT**. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. For example, **CN**. • **High**: Blank if the option is not BT.

Filter name	Description	Supported values
CURRENCY_CONVERT_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This parameter allows you to export the currency conversion details from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the details that need to be included in each master data export batch task for the currency conversion.	• **Variable Name**: CURRENCY_CONVERT_EXPORT • **Field Name**: Field name that designates the currency conversion information in the table **TCURR**. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. For example, the currency conversion. • **High**: Blank if the option is not BT.

Filter name	Description	Supported values
EARMARKED_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This pre-filter allows you to export the earmarked funds from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the earmarked funds to include in each master data export batch task for the funds.	• **Variable Name**: EARMARKED_EXPORT • **Field Name**: Field name that designates the earmarked funds in the table **KBLK**. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. **Note** If you select date field, you must provide date value in the format **YYYYMMDD**. • **High**: Blank if the option is not BT.
FMAREA_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This pre-filter allows you to export the financial management areas from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the financial management areas to include in each master data export batch task for the funds.	• **Variable Name**: FMAREA_EXPORT • **Field Name**: Field name that designates the financial management areas in the table **FM01**. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.

Filter name	Description	Supported values
FMAREA_LANG_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This pre-filter allows you to export the names in multiple languages for financial management areas from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the languages to include in each master data export batch task for the funds. This filter is applicable to the ARBCIG_MASTER_DATA_LANG_EXPORT report.	• **Variable Name**:FMAREA_LANG_EXPORT • **Field Name**: Field name that designates the financial management areas in the table **FM01**. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.
FUNCTAREA_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This pre-filter allows you to export the functional area costs from the SAP Ariba Procurement solutions. Configure a selection criteria to filter the functional areas to include in each master data export batch task for the funds.	• **Variable Name**: FUNCTAREA_EXPORT • **Field Name**: Field name that designates the functional areas in the table **TFKB**. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.

Filter name	Description	Supported values
FUNCTAREA_LANG_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This pre-filter allows you to export the names in multiple languages for functional areas from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the languages to include in each master data export batch task for the funds. This filter is applicable to the ARBCIG_MASTER_DATA_LANG_EXPORT report.	• **Variable Name**:FUNCTAREA_LANG_EXPORT • **Field Name**: Field name that designates the functional areas in the table **TFKB**. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.
FUNDCTR_LANG_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This pre-filter allows you to export the names in multiple languages for fund center names from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the languages to include in each master data export batch task for the funds. This filter is applicable to the ARBCIG_MASTER_DATA_LANG_EXPORT report.	• **Variable Name**: FUNDCTR_LANG_EXPORT • **Field Name**: Field name that designates the fund center in the table **FMFCTR**. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.

Filter name	Description	Supported values
FUND_CENTER_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This pre-filter allows you to export the fund centers from the SAP ERP or SAP S/4HANA or SAP S/4HANA toSAP Ariba Procurement solutions. Configure a selection criteria to filter the fund centers in each master data export batch task for the funds.	• **Variable Name**: FUND_CENTER_EXPORT • **Field Name**: Field name that designates the fund center in the table FMFCTR. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.
FUND_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This pre-filter allows you to export the financial management areas from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the financial management areas in each master data export batch task for the funds	• **Variable Name**: FUND_EXPORT • **Field Name**: Field name that designates the fund in the table FMFINT. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.

Filter name	Description	Supported values
FUND_LANG_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This pre-filter allows you to export the financial management areas in multiple languages from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the languages to include in each master data export batch task for the funds. This filter is applicable to the ARBCIG_MASTER_DATA_LANG_EXPORT report.	• **Variable Name**: FUND_LANG_EXPORT • **Field Name**: Field name that designates the fund language in the table FMFINT. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.
GENERAL_LEDGER_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This variable allows you to export the general ledger details from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the details that need to be included in each master data export batch task for the general ledgers.	• **Variable Name**: GENERAL_LEDGER_EXPORT • **Field Name**: Field name that designates the general ledger information in the table SKB1. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. For example, the general ledger. • **High**: Blank if the option is not BT.

Filter name	Description	Supported values
GENRAL_LDGR_NAMES_EXPORT	Applicable for SAP Ariba solutions. This is an optional field. This parameter allows you to export the general ledger names in multiple languages from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the languages that need to be included in each master data export batch task for the general ledgers. This filter is applicable to the ARBCIG_MASTER_DATA_LANG_EXPORT report.	• **Variable Name**: GENRAL_LDGR_NAMES_EXPORT • **Field Name**: Field name that designates the general ledger names in the table SKAT. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. For example, **BR**. • **High**: Blank if the option is not BT
GRANT_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This pre-filter allows you to export fund grants from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the grants in each master data export batch task for the funds.	• **Variable Name**: GRANT_EXPORT • **Field Name**: Field name that designates the fund grants in the table GMGR. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.

Filter name	Description	Supported values
GRANT_LANG_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This pre-filter allows you to export the fund grant names in multiple languages from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the languages to include in each master data export batch task for the funds. This filter is applicable to the ARBCIG_MASTER_DATA_LANG_EXPORT report.	• **Variable Name**:GRANT_LANG_EXPORT • **Field Name**: Field name that designates the fund grants in the table GMGR. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.
INTERNAL_ORDER_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This parameter allows you to export the internal order details from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the details that need to be included in each master data export batch task for the internal orders.	• **Variable Name**: INTERNAL_ORDER_EXPORT • **Field Name**: Field name that designates the internal orders in the table AUFK. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. For example, the internal order. • **High**: Blank if the option is not BT.

Filter name	Description	Supported values
PAYMENT_TERM_NAME_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This parameter allows you to export the payment term names in multiple languages from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the languages that need to be included in each master data export batch task for the payment terms.	• **Variable Name**: PAYMENT_TERM_NAME_EXPORT • **Field Name**: Field name that designates the payment term names in the table TVZBT. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. For example, the payment term. • **High**: Blank if the option is not BT.
RL_PARTNER_TYPE	Applicable for SAP Ariba Procurement solutions. This is a mandatory parameter for supplier master data export. The value you set for this parameter indicates the remittance location. This filter allows you to fetch the remittance locations. Configure a selection criteria to filter the remittance locations that need to be included in each master data export batch task for the suppliers.	• **Variable Name**: RL_PARTNER_TYPE • **Field Name**: PARVW • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. For example, IP. • **High**: Blank if the option is not BT.

Filter name	Description	Supported values
SL_PARTNER_TYPE	Applicable for SAP Ariba Procurement solutions. This is a mandatory parameter for supplier master data export. The value you set for this parameter indicates the supplier location. This filter allows you to fetch the supplier locations. Configure a selection criteria to filter the supplier locations that need to be included in each master data export batch task for the suppliers.	• **Variable Name**: SL_PARTNER_TYPE • **Field Name**: PARVW • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. For example, **OA**. • **High**: Blank if the option is not BT.
STORAGE_LOCATION_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This parameter allows you to export the storage location details from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the details that need to be included in each master data export batch task for storage location.	• **Variable Name**: STORAGE_LOCATION_EXPORT • **Field Name**: Field name that designates the storage location information in the table T001L. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. For example, the storage location. • **High**: Blank if the option is not BT.

Filter name	Description	Supported values
TAX_CODE_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This parameter allows you to export the tax codes from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the tax codes that need to be included in each master data export batch task.	• **Variable Name**: TAX_CODE_EXPORT • **Field Name**: Field name that designates the tax codes in the table T007A. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.
TAX_CODE_EXPORT_V1	This is an optional filter that applies to SAP Ariba Procurement solutions. Enabling this parameter allows you to export input tax codes from SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criterion to filter the input tax codes extracted in each master data export batch task.	• **Variable Name**: TAX_CODE_EXPORT_V1 • **Field Name**: Field name that designates the input tax code in the table T007A. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you have set for the field. • **High**: Blank if the option is not BT.

Filter name	Description	Supported values
TAX_CODE_NAMES_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This parameter allows you to export the tax code names in multiple languages from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the languages that need to be included in each master data export batch task for the tax codes. This filter is applicable to the ARBCIG_MASTER_DATA_LANG_EXPORT report.	• **Variable Name**: TAX_CODE_NAMES_EXPORT • **Field Name**: Field name that designates the tax code names in the table **T007S**. • **Type**: Enter S as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. For example, **DE**. • **High**: Blank if the option is not BT.
TAX_COMP_EXPORT	This is an optional filter that applies to SAP Ariba Procurement solutions. Enabling this parameter allows you to export input tax codes from SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criterion to filter the input tax codes extracted in each master data export batch task.	• **Variable Name**: TAX_COMP_EXPORT • **Field Name**: Field name that designates the input tax code in the table **T683S**. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you have set for the field. • **High**: Blank if the option is not BT.

Filter name	Description	Supported values
USER_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This parameter allows you to export the user details from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the details that need to be included in each master data export batch task for the users.	• **Variable Name**: USER_EXPORT • **Field Name**: Field name that designates the user details in the table USR02. • • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.
USER_GROUP_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This parameter allows you to export the user group details from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the user groups that need to be included in each master data export batch task for the users.	• **Variable Name**: USER_GROUP_EXPORT • **Field Name**: Field name that designates the user group details in the table AGR_USERS. • • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.

Filter name	Description	Supported values
VENDOR_ONLY_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This parameter allows you to export the vendor details from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the details that need to be included in each master data export batch task for the vendors.	• **Variable Name**: VENDOR_ONLY_EXPORT • **Field Name**: Field name that designates the vendor details in the table LFA1. • • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.
WBS_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This parameter allows you to export the WBS details from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the details that need to be included in each master data export batch task for the WBS.	• **Variable Name**: WBS_EXPORT • **Field Name**: Field name that designates the WBS information in the table PRPS. • • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.

Filter name	Description	Supported values
WHTAX_CODE_EXPORT	This is an optional filter that applies to SAP Ariba Procurement solutions. Enabling this parameter allows you to export withholding tax types from SAP ERP or SAP S/4HANA or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criterion to filter the withholding tax types extracted in each master data export batch task.	• **Variable Name**: WHTAX_CODE_EXPORT • **Field Name**: Field name that designates the withholding tax types in the table T059P. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you have set for the field. • **High**: Blank if the option is not BT.
WHTAX_COMP_EXPORT_T001WT	This is an optional filter that applies to SAP Ariba Procurement solutions. Enabling this parameter allows you to export withholding tax types along with the respective company code information from SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criterion to filter the withholding tax types extracted in each master data export batch task.	• **Variable Name**: WHTAX_COMP_EXPORT_T001WT • **Field Name**: Field name that designates the withholding tax types associated with the respective company code in table T001WT. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you have set for the field. • **High**: Blank if the option is not BT.

Filter name	Description	Supported values
`WHTAX_COMP_EXPORT_T059Z`	This is an optional filter that applies to SAP Ariba Procurement solutions. Enabling this parameter allows you to export withholding tax code from SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criterion to filter the withholding tax code extracted in each master data export batch task.	• **Variable Name**: WHTAX_COMP_EXPORT_T059Z • **Field Name**: Field name that designates the withholding tax code in table `T059Z`. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you have set for the field. • **High**: Blank if the option is not BT.

Importing Master Data from SAP ERP to SAP Ariba Procurement Solutions

Context

You can run the `ARBCIG_MASTER_DATA_EXPORT` program on SAP ERP to import master data from SAP ERP to SAP Ariba Procurement solutions. Ensure that you have the necessary authorization to run the master data program.

Prerequisites

- Ensure that you have configured incremental extract event. For more information, see Configuring Ariba Incremental Extract Event [page 61].
- Ensure that you have selected **Master Data** in interface setup. For more information, see Configuring the Connections to Send Messages [page 48].
- Before you select **CostCenter** to import the cost center master data, you must uncheck the following in the **Lock** section under the **Control** tab on the **Change Cost Center: Indicators** page in SAP ERP:
  - **Actual revenues**
  - **Plan revenues**

  By default, **Actual revenues** and **Plan revenues** appear checked.

Procedure

1. Run the transaction code `SE38`.

   The **ABAP Editor: Initial Screen** appears.
2. In the **Program** field, enter the program name, `ARBCIG_MASTER_DATA_EXPORT`. Click **Execute**.

   The **Export All Master Data Required For On-Demand Application** page appears.
3. Select the **Test Run** option when you want to run the master data program and check the contents in the .csv file. The master data .csv file is downloaded on your SAP application server. Ensure that the application server directory exists with the necessary permissions before running the master data import.

   When you run the incremental load subsequently, the stage table `ARBCIG_CHANGEDOC` continues to store the previous extracted data for the first run using the **Test Run** option.

   Specify the directory path for downloading the files in the **Dir Path for file download** field.
4. In the **Solution** section, choose one of the following:

   - **Procure-to-Pay**: To import master data for SAP Ariba Buying and Invoicing customers.
   - **Procure-to-Order**: To import master data for SAP Ariba Buying customers. This option does not support downloading the remittance location of suppliers.
5. In the section **Load Options**, choose one of the following:

   - **Full Load**: Imports all the master data records that are available for the master data type.
   - **Incremental Load**: Imports the master data records that have been updated since the last master data export event from the SAP ERP system. Incremental load option imports only earmarked fund for funds management.
6. Specify the encoding in the **Encoding to be used**. The encoding and charset to convert the data in the CIF file. For example, UTF-8. This is a required field and is case-sensitive.
7. Enter a value in the **Variant** field. Specify the unique variant name for SAP Ariba Procurement solutions in your SAP ERP system. For example, VREALM_2.
8. Enter a value in the **Partition** field. Specify the unique site name for SAP Ariba Procurement solutions in your SAP ERP system. For example, PREALM_2.
9. Select **FPC Enabled** for multi-ERP enabled setup.
10. Enter a value in the **Site** field. Specify the name of the realm. You must enter the name of the realm that is configured in the customization tables such as `AUTHPARAM`, `USR_GRP`, `INCRDTTIM`, and so on.
11. If you have selected the **Full Load** option, check one or more of the following options:

    - **Plant**
    - **CompanyCode**
    - **PurchaseOrg**
    - **PlantPurchaseOrg**
    - **PurchaseGroup**
    - **Storage Location**
    - **CostCenter**
    - **InternalOrder**
    - **GeneralLedger**
    - **WBSElement**

- **Asset**
- **Asset Class**
- **AccountCategory**
- **AccCategoryFieldStatus**
- **ERPCommodityCode**
- **CurrencyConversion**
- **TaxCode**
- **Payment Terms**
- **Supplier related information**
- **User and user group related information**
- **Fund**
- **Funds Center**
- **FM Area**
- **Earmarked Fund**
- **Commitment Item**
- **Grant**
- **Functional Area**
- **Budget Period**
- **Input and Withholding TaxCode**

To view the **Funds Management Data** options, check **Enable Fund Management**. If you have selected the **Incremental Load** option, only the **Earmarked Fund** option is available for selection under **Funds Management Data** section.

12. Click **Execute** to import the selected master data.

> ⓘ Note
>
> To run the master data in different languages, run the `ARBCIG_MASTER_DATA_LANG_EXPORT` program.

Maintaining Parameters to Import Payment Terms Master Data

Context

Maintain the parameter, **ENHANCED_PAYMENT_TERMS** to import the additional payment terms. Ensure that you have also maintained the other prerequisites that the master data import requires. Use this parameter when you want to import master data for a payment term having different day limits with multiple discount percentage values and specific time periods.

When the master data program runs, the program check whether this parameter is maintained on the SAP ERP system. If you maintain this parameter, the master data program sends all the defined values for the day limit associated for the payment term to the SAP Ariba Procurement solutions.

If this parameter is left blank, the master data program does not check for the different day limits for the payment term.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data** > **General Settings** > **Maintain Parameters** > **Procurement** .
4. Click **SAP Reference IMG** for **Procurement**.

   The **Parameters - Ariba Procurement Master Data** screen appears.
5. Maintain the following parameter:

Parameter name	Description	Values to maintain
ENHANCED_PAYMENT_TERMS	Applicable to SAP Ariba Procurement solutions. This is a mandatory field to import the additional payment terms master data. If you maintain the parameter, the master data program sends all the defined values for the day limit associated for the payment term to the SAP Ariba Procurement solutions.	• **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: Leave it blank. • **Partition**: Leave it blank. • **Low**: Specify X when you want to include the additional payment terms while importing the payment terms master data.

Importing Master Data for Catalogs

Context

You can run the ARBCIG_BUYER_CATALOG_EXPORT program manually to import catalog master data to SAP Ariba Procurement solutions. Ensure that you have the necessary authorization to run the master data program.

Prerequisite

- Ensure that you have configured incremental extract event. For more information, see Configuring Ariba Incremental Extract Event [page 61].
- Ensure that you have selected **Catalog Upload Request** in interface setup. For more information, see Configuring the Connections to Send Messages [page 48].

Procedure

1. Run the transaction code `SE38`.
2. Run the `ARBCIG_BUYER_CATALOG_EXPORT` program.

   The **Buyer Catalog Export** page appears.
3. Enter the following details:

Field Name	Description
The following are the header fields in the catalog CIF file.	
Catalog Subscription Name	The catalog subscription name is a unique identifier in SAP Ariba for the catalog. Ensure that you do not change the existing name for the catalog subscription while running the full or incremental load. All new versions of the catalog continue to have the same catalog subscription name. **Note** You must ensure that you use the existing catalog subscription name for each incremental load you run for an existing catalog. Required field.
Currency	The default currency for unit prices for the items in the catalog. Default value: USD Required field.
Charset	The encoding and charset to convert the data in the CIF file. For example, UTF-8. Required field and is case-sensitive.
Code Format	The default commodity code system. You must specify the UNSPSC format. Required field.
Comments	The comments for the catalog.
SupplierId_Domain	The domain for the supplierID. Ensure that you specify the **SupplierId_Domain** that you maintain for the supplier on the SAP Ariba Procurement solutions. Example: SUPPLIERID_DOMAIN:DUNS Required field.
United Nations Unit of Measure	Select this option to send the catalog in the UNUOM format. Required field.

Field Name	Description
Variant	Specify the unique variant name for SAP Ariba Procurement solutions in your SAP ERP system. For example, VREALM_2.
Partition	Specify the unique site name for SAP Ariba Procurement solutions in your SAP ERP system. For example, PREALM_2.
Catalog Filters	Contains the following filters: • Plant • Purchase Organization • Supplier • Purchase Info Category • Material Group • Material Type • Language
Send Long Text	Selecting the checkbox enables you to send long text material descriptions up to 2500 characters. If you don't enable the checkbox, by default, you can only send short text material descriptions. **Note** • The long text is sent without formatting. • You can either send short text or long text. if you've selected the **Long Text** checkbox, ensure that you've maintained long text in all the required languages. • When you run the `ARBCIG_BUYER_CATALOG_REPORT` or `ARBCIG_BUYER_CATALOG_EXPORT` in incremental mode, it is mandatory that you mention the **Date** range. The **Date** field is available in the **Load Option** section.
Product Hierarchy OR Classification Code as Commodity Code	Contains two options: • **Product Hierarchy**: This option allows you to download the commodity code maintained in the product hierarchy field present in the basic data view of the material master on the SAP ERP system. . • **Classification Code**: Choose this option if you want to use the commodity code maintained in Classification view for the full or incremental load. If you use this option, you must also specify additional parameters.
Load Option	Contains the following options: • **Full Load**: Allows you to extract all the Purchase Information records and Materials Master records. You can run the full load more than one time. • **Update Catalog subscription**: Choose this option only when you want to update an existing catalog

Field Name	Description
	subscription entirely using the full load. Ensure that you do not use this option the first time to create a new catalog subscription. • **Incremental Load**: Allows you to extract only the changed or updated records. You can optionally specify the date from that you require the records to be extracted from the SAP ERP system.
Auto Publish	Allows you to automatically publish the catalog: • **True**: Choose this option to automatically publish the catalog. This is the default option. When you enable this option, the `CatalogUploadRequest` file contains the value "TRUE" in the **AutoPublish enabled** field. • **False**: Choose this option if you do not want to automatically publish the catalog. When you enable this option, the`CatalogUploadRequest` file contains a blank value in the **AutoPublish enabled** field.
Test Run	You can choose one of the following: • Select the **Test Run** option when you want to run the catalog and check the CIF file before it is sent to SAP Business Network. The CIF file is downloaded on your SAP application server. Ensure that the application server directory exists with the necessary permissions before running the catalog import. When you run the incremental load subsequently, the stage table `ARBCIG_DOCCHANGE` continues to store the previous extracted data for the first run using the **Test Run** option. The stage table `ARBCIG_DOCCHANGE` is cleared only after the catalog items are sent to SAP Business Network. Specify the directory path in the **Dir Path for file download** field. The Dir Path for file download `ARBCIG_BUYER_CATALOG_EXPORT` program validates the file path that you specify. A folder "Catalog" is automatically created to store the catalog file when you specify the **Test Run** option or send the files using mediated connectivity. • Do not select the **Test Run** option if you choose to upload the CIF file using the mediated connectivity. The file path for mediated connectivity must be maintained in the parameter `TEMP_DIRECTORY`. For more information, see Maintaining Parameters to Import Master Data for More than One SAP Ariba Solution [page 171].

Field Name	Description
	Note If the file path is invalid, the `ARBCIG_BUYER_CATALOG_EXPORT` program displays an error.
SAP Business Network Buyer ID	Specify the SAP Business Network ID of the buyer.
SAP Business Network Supplier ID	Specify the SAP Business Network ID of the supplier.
Email Notification to Buyer	Enter the email address of the buyer.

4. Click **Execute** to import the selected master data.

Maintaining Parameters for Catalog Upload Requests

Maintain the required parameters to upload catalogs from SAP ERP or SAP S/4HANA system.

Context

To maintain parameters for catalog upload requests, perform the following steps:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **General Settings** > **Maintain Parameters** > **Catalog Upload Request** .
4. Click **IMG-Activity** for **Catalog Upload Request**.

   The **Parameters - Catalog Upload Request** screen appears.
5. Maintain the following parameters:

Parameter name	Description	Supported values
BUYER_CAT_CLASS	Applicable for SAP Ariba Procurement solutions. It is mandatory to use this class if you use the commodity code maintained in the Classification view for the full or incremental load of the material master. The ARBCIG_BUYER_CATALOG_EXPORT program and the ARBCIG_BUYER_CATALOG_REPORT program display an error if you do not maintain this class when specifying the **Classification Code as Commodity Code** option.	• **Variable Name**: BUYER_CAT_CLASS • **Field Name**: Leave it blank • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Low**: For example: CL125.
BUYER_CAT_CLASS_TYPE	Applicable for SAP Ariba Procurement solutions. It is mandatory to use this class type if you use the commodity code maintained in the Classification view for the full or incremental load of the material master. The ARBCIG_BUYER_CATALOG_EXPORT program and the ARBCIG_BUYER_CATALOG_REPORT program display an error if you do not maintain this class when specifying the **Classification Code as Commodity Code** option.	• **Variable Name**: BUYER_CAT_CLASS_TYPE • **Field Name**: Leave it blank • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Low**: For example, 001.

Parameter name	Description	Supported values
BUYER_CAT_INT_CHAR_NO	Applicable for SAP Ariba Procurement solutions. This is a mandatory field, but not for test run. Maintain the Characteristics Name maintained in `CL01` transaction for the characteristic value that must be extracted as the commodity code maintained in the Classification view of the material master for a particular class type and class. Use or create a characteristic value of the CHAR data type. The `ARBCIG_BUYER_CATALOG_EXPORT` program and the `ARBCIG_BUYER_CATALOG_REPORT` program display an error if you do not maintain this parameter when specifying the **Classification Code as Commodity Code** option.	• **Variable Name**: BUYER_CAT_INT_CHAR_NO • **Field Name**: Leave it blank • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Low**: For example, CH0023
BUYER_CAT_OVERRIDE	Applicable for SAP Ariba Procurement solutions. This parameter is needed to override certain fields of the records in the `ARBCIG_CATLOGHST` table. It takes effect only for background job execution. If you do not maintain this parameter, a message is displayed in background job logs for the `ARBCIG_BUYER_CATALOG_REPORT` program. In the foreground, this parameter is ignored for the `ARBCIG_BUYER_CATALOG_REPORT` program.	• **Variable Name**: BUYER_CAT_OVERRIDE • **Field Name**: Leave it blank • **Variant**: The unique variant name for the SAP Ariba Buying solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Buying solutions in SAP ERP. For example, PREALM_2. • **Low**: 'X'

Implementing BAdI for Catalog Upload Request

Maintain the BAdI **ARBCIG_BUY_CATALOG_EXPORT**to enhance the catalog upload request.

Context

To maintain BAdI to enhace catalog upload request, perform the following steps:

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Enhancements** > **Business Add-Ins(BAdIs)** > **Catalog Upload Request**
4. Click **IMG-Activity** for **Catalog Upload Request**.

   The **Business Add-Ins: All Implementations for Definition Catalog Upload Request** screen appears..
5. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: **ARBCIG_BUY_CATALOG_EXPORT**

   The following table lists methods that you can implement:

Method Name	Description
MODIFY_PIR	To modify Purchase Info Record details.
MODIFY_MATERIAL	To modify Material Master details.
PUBLISH_CIF	To modify the extracted catalog information before it is published to SAP Integration Suite, managed gateway.

Scheduling the Job for Catalog Upload Requests

Schedule either the ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program to send catalog information to SAP Ariba Procurement solutions. The catalog information contains Material Master and Purchase Info records.

Context

The ARBCIG_BUYER_CATALOG_EXPORT program forwards catalog information to SAP Business Network before sending it to SAP Ariba Procurement solutions. Whereas, the ARBCIG_BUYER_CATALOG_REPORT program sends catalog information directly to SAP Ariba Procurement solutions, which improves system performance.

Procedure

1. Run the transaction code SM36.

   The **Define Background Job** screen appears.
2. Schedule the ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program.

Monitoring the Status of Uploaded Catalog Files

After you upload catalog files to SAP Ariba Procurement solutions, you can monitor their status in the SAP ERP systems.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Buyer Catalog Syndication Status Report**.
4. Click **IMG-Activity** for **Buyer Catalog Syndication Status Report**.

   The **Buyer Catalog Syndication Status Report** screen appears.
5. Specify the parameters to filter catalog files and execute the report.

   The report displays the status of uploaded catalog files.

You can cancel the upload of catalog files that are in the **Awaiting Response** status in the SAP ERP systems.

Creating a Dummy Asset Value

Context

An asset is required to create a purchase requisition. In the absence of a valid asset, you can use a dummy asset value to create a purchase requisition. You can process a change requisition later to update the asset details. For more information about supporting management of assets, see Integration to Support Management of Assets from SAP Ariba Procurement solutions in SAP Integration Suite, Managed Gateway Overview Guide.

Procedure

1. Run the transaction code `AS01`.

   The **Create Asset: Initial screen** page appears.
2. Enter the following information:
   - **Asset Class**: Asset class is the criterion for classifying fixed assets. Each asset must be assigned to one asset class. For example, 1000.
   - **Company Code**: Company code is a number code indicating an organizational unit within the accounting system. For example, 0001.
   - **Number of similar assets**: Number of similar assets that you want to create when you save an asset master record. For example, 1.
3. Click **Enter**.

   The **Create Asset: Master Data** page appears.
4. Navigate to the **General** tab and enter the following information:
   - **Description**: Enter a description to indicate that it is a dummy asset value. For example, Unspecified.
5. Click **Save**.

Implementing BAdI for the Input Tax Code and the Withholding Tax Code Master Data Export

Context

To import the input tax code and the withholding tax code master data, you can use the following methods in the BAdI, `ARBCIG_MASTERDATA`:

- PUBLISH_WHTAX_COMPONENT
- PUBLISH_WHTAX_CODE

- **PUBLISH_TAX_COMP**
- **PUBLISH_TAX_CODE_V1**

> **Note**
>
> For the tax code with the base amount type other than Net Amount or Gross Amount, you can use the `ARBCIG_MASTERDATA` BAdI to fill the **AppliedOn** field.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Enhancements** > **Business Add-Ins(BAdIs)** >.
4. Click **IMG-Activity** for **BAdIs for Master Data Export**.

   The **BAdI Implementations** page appears.
5. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: **ARBCIG_MASTERDATA**

   The following table lists methods that you can implement:

Method name	Description
`PUBLISH_WHTAX_COMPONENT`	Publish the withholding tax component details after processing.
`PUBLISH_WHTAX_CODE`	Publish withholding tax code details after processing.
`PUBLISH_TAX_COMP`	Customize tax components.
`PUBLISH_TAX_CODE_V1`	Publish tax code details after processing.

Maintaining the Mapping of the Input Tax Code Details in SAP with the Relevant Tax Types in SAP Ariba

Context

Maintain the mapping of the input tax code details (condition type, country, input tax code, and tax jurisdiction (if applicable)) in SAP with the relevant tax type in SAP Ariba.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Maintain Tax Type**.
4. Click **IMG-Activity** for **Maintain Tax Type**.
5. The **Change View "Maintain Tax Type": Overview** page appears.
6. Click **New Entries**.

   The **New Entries: Overview of Added Entries** page appears.
7. In the **Maintain Tax Type** table, enter the following entries and click **Enter**.

Field	Description
Condition Type	Enter the condition type in SAP for the input tax code.
Country Key	Enter the country key for the input tax code.
Tax Code	Enter the input tax code.
Tax Jurisdiction	Enter the tax jurisdiction, if applicable.
Tax Type	Enter the relevant tax type in SAP Ariba.

Enhancing the Output Structures to Send Additional Input and Withholding Tax Code Information

Context

To send additional information as part of the output structures for the input and the withholding tax code master data, you must follow the following general steps.

For more information about the input and the output structures for the input and the withholding tax codes, refer to Import Input Tax Code and Withholding Tax Code Master Data in SAP Integration Suite, Managed Gateway Overview Guide.

Procedure

1. Add the required additional fields in the following input structures to enable them to retrieve data from the database table:
   - For the input tax code, add fields in the `ARBCIG_TAX_CODE_V1` and/or the `ARBCIG_TAX_COMP` structure.

- For the withholding tax code, add fields in the `ARBCIG_WITHT_COMMON` structure.

2. To import the input tax code and the withholding tax code master data to the output structure, use the BAdI, `ARBCIG_MASTERDATA`.
3. Maintain the mapping of SAP tax code fields to relevant Ariba tax types in the **Maintain Tax Type** table, if required.
4. Run the program, `ARBCIG_MASTER_DATA_EXPORT` to import the input tax code and the withholding tax code master data to SAP Ariba Procurement solutions.

Importing Master Data for SAP Ariba Sourcing and SAP Ariba Contracts

This section provides information about importing master data for SAP Ariba Sourcing and SAP Ariba Contracts:

> **Note**
>
> When you use SAP S/4HANA, on-premise edition 2020 with SAP Ariba Contracts or SAP Ariba strategic sourcing solutions, ensure that you apply the SAP Note 2945140.

Filters for SAP Ariba Sourcing and SAP Ariba Contracts [page 128]

Parameters for SAP Ariba Sourcing and SAP Ariba Contracts [page 132]

Maintaining the Mapping of Ariba Condition Types to SAP Condition Types for Purchase Info Records [page 137]

Importing Master Data from SAP ERP to SAP Ariba Sourcing and SAP Ariba Contracts [page 137]

Implementing the BAdI for Purchase Info Records [page 139]

Maintaining Field Map for Master Data in SAP Ariba Sourcing and SAP Ariba Contracts [page 140]

Integrating SAP Retail with SAP Ariba Strategic Sourcing Suite [page 141]

Filters for SAP Ariba Sourcing and SAP Ariba Contracts

Maintaining Filters for SAP Ariba Sourcing and SAP Ariba Contracts [page 128]

Maintaining Filters for SAP Ariba Sourcing and SAP Ariba Contracts

Context

Maintain the following parameters to specify filters while importing material master from SAP ERP systems.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data** > **General Settings** > **Maintain Filters** > **Sourcing** >.
4. Click **SAP Reference IMG** for **Sourcing**.

   The **Prefilters - Ariba Sourcing Master Data** screen appears.
5. Maintain the following parameters:

Parameter name	Description	Values to maintain
INCOTERMS_EXPORT	Applicable for SAP Ariba Sourcing. This is an optional field. This parameter allows you to filter the Incoterms while exporting the master data from the SAP ERP to SAP Ariba Sourcing. Specify the field names that need to be included in each master data export batch task for the Incoterms. For example: ORTOB or INCO1	• **Field Name**: ORTOB or INCO1 • **Type**: Enter S as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Sourcing solution in SAP ERP. For example, VREALM_1. • **Partition**: The unique site name for the SAP Ariba Sourcing solution in SAP ERP. For example, PREALM_1. • **Sign**: Enter I. • **Option**: Enter EQ. • **Low**: Enter a value.
ITEMCATEGORY_EXPORT	Applicable for SAP Ariba Sourcing. This is an optional field. This parameter allows you to filter the item category while exporting the master data from the SAP ERP to SAP Ariba Sourcing. Specify the field names that you require. For example: EPSTP	• **Field Name**: Enter a value. • **Type**: Enter S as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Sourcing solution in SAP ERP. For example, VREALM_1. • **Partition**: The unique site name for the SAP Ariba Sourcing solution in SAP ERP. For example, PREALM_1. • **Sign**: Enter I.

Parameter name	Description	Values to maintain
		• **Option**: Enter EQ. • **Low**: Enter the field names.
MATERAL_GRP_NAMES_EXPORT	Applicable for SAP Ariba Sourcing. This parameter allows you to specify the filter to send material group description in a particular language. Specify the language code or the material group. This filter is applicable to the ARBCIG_MASTER_DATA_LANG_EXPORT report.	• **Field Name**: Enter a value. • **Type**: Enter S as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Sourcing solution in SAP ERP. For example, VREALM_1. • **Partition**: The unique site name for the SAP Ariba Sourcing solution in SAP ERP. For example, PREALM_1. • **Sign**: Enter I. • **Option**: Enter EQ. • **Low**: Enter the language code or the material group.
MATERIAL_LANG_EXPORT	Applicable for SAP Ariba Sourcing. This is an optional field for displaying the descriptions for the materials master data in different languages. Use this parameter to specify the language in which the material master data descriptions need to be displayed. Specify the ISO code for the language. The default language is set to English. For example: DE This filter is applicable for the ARBCIG_MASTER_DATA_LANG_EXPORT report.	• **Field Name**: Enter the field name that designates to Material Description in the MAKT table. • **Type**: Enter S as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Sourcing solution in SAP ERP. For example, VREALM_1. • **Partition**: The unique site name for the SAP Ariba Sourcing solution in SAP ERP. For example, PREALM_1. • **Sign**: Enter I. • **Option**: Enter EQ. • **Low**: Specify the language that needs to be included in each master data export batch task. For example, language code (A~SPRAS) with value DE.

Parameter name	Description	Values to maintain
MATERIAL_MASTER_EXPORT	Applicable for SAP Ariba Sourcing. This parameter allows you to export the material master data from SAP ERP to SAP Ariba Sourcing. Specify the required filters and run this program to export the material master data.	• **Field Name**: The field name that designates to the material ID in the table, MARA. • **Type**: Enter S as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Sourcing solution in SAP ERP. For example, VREALM_1. • **Partition**: The unique site name for the SAP Ariba Sourcing solution in SAP ERP. For example, PREALM_1. • **Sign**: Enter I. • **Option**: Enter EQ. • **Low**: Enter the required filters. For example, material ID from the table, MARA.
MATERIAL_ONLY_INFO	Applicable for SAP Ariba Sourcing. This is an optional parameter. This parameter allows you to filter the material information while exporting the master data from the SAP ERP to SAP Ariba Sourcing. Specify the material information.	• **Field Name**: Enter a value. • **Type**: Enter S as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Sourcing solution in SAP ERP. For example, VREALM_1. • **Partition**: The unique site name for the SAP Ariba Sourcing solution in SAP ERP. For example, PREALM_1. • **Sign**: Enter I. • **Option**: Enter EQ. • **Low**: Enter the material information that needs to be included in each master data export batch task.
PLANT_PURCHASE_EXPORT	Applicable for SAP Ariba Sourcing. This is an optional parameter. This parameter allows you to filter the plant and purchase organization information	• **Field Name**: Enter a value. • **Type**: Enter S as the selection category. • **Number**: 0000

Parameter name	Description	Values to maintain
	while exporting the master data from the SAP ERP to SAP Ariba Sourcing.	• **Variant**: The unique variant name for the SAP Ariba Sourcing solution in SAP ERP. For example, VREALM_1. • **Partition**: The unique site name for the SAP Ariba Sourcing solution in SAP ERP. For example, PREALM_1. • **Sign**: Enter I. • **Option**: Enter EQ. • **Low**: Enter the value for the plant or purchase organization.

Parameters for SAP Ariba Sourcing and SAP Ariba Contracts

Maintaining Parameters for SAP Ariba Sourcing and SAP Ariba Contracts [page 132]

Maintaining Parameters for Enabling the Integration of Pricing Scales with Purchase Info Records [page 136]

Maintaining Parameters for SAP Ariba Sourcing and SAP Ariba Contracts

Context

Maintain the following parameters to import material master from SAP ERP systems.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data** > **General Settings** > **Maintain Parameters** > **Sourcing**.

4. Click **SAP Reference IMG** for **Sourcing**.

   The **Parameters - Ariba Sourcing Master Data** screen appears.

5. Maintain the following parameters:

Parameter name	Description	Values to maintain
DC_WAITTIME	Applicable for SAP Ariba Sourcing. This is an optional field. This parameter allows you to specify the wait time between more than one master data export batch task. This is useful when you want to split the large master data export tasks in batches. Specify the wait time in seconds. The default value is one second. You must specify a value for this parameter if you have also configured the SPLIT_NOMREC parameter to split the master data export into multiple batches. For example, 5.	• **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Sourcing solution in SAP ERP. For example, VREALM_1. • **Partition**: The unique site name for the SAP Ariba Sourcing solution in SAP ERP. For example, PREALM_1. • **Low**: Enter the wait time in seconds. For example, 5.
EXTERNAL_SID	Applicable for SAP Ariba Sourcing. This is a mandatory field. This parameter allows you to specify the system ID name that you have defined in your SAP Ariba Sourcing system. The value you specify in this field must exactly match the value available on your SAP Ariba Sourcing system. Specify the system ID that you have maintained in the **Master Data Manager** > **External System Configuration** page on your SAP Ariba Sourcing system. For example, SAPERPSYSTEM1.	• **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Sourcing solution in SAP ERP. For example, VREALM_1. • **Partition**: The unique site name for the SAP Ariba Sourcing solution in SAP ERP. For example, PREALM_1. • **Low**: Enter the system ID of the SAP Ariba Sourcing system.
MATERIAL_ONLY_AML	Applicable for SAP Ariba Sourcing. This is an optional field. This parameter allows you to include the customized code for the **Material Type** field. If you have customized the code for the material type for	• **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Sourcing solution in SAP ERP. For example, VREALM_1.

Parameter name	Description	Values to maintain
	the **Manufacturer Parts**, maintain the parameter for the customized code. If you do not maintain the parameter with the customized code, the master data program uses the default value, HERS.	• **Partition**: The unique site name for the SAP Ariba Sourcing solution in SAP ERP. For example, PREALM_1. • **Low**: Enter the customized code for the material type for the **Manufacturer Parts**. For example, HERS.
SPLIT_NOMREC	Applicable for SAP Ariba Sourcing. This is an optional field. This parameter allows you to split the large master data export tasks in batches. Specify the number of records that needs to be included in each master data export batch task. You must specify a value for this parameter if you have also configured the DC_WAITTIME parameter and specified the time duration to wait in between one master data export task and the other. If you do not specify the number of records that must be included for each master data export task, the master data export program could take a considerably long time and could cause timeout errors. SAP Ariba recommends 40,000 as the maximum value of records you could include in a batch.	• **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Sourcing solution in SAP ERP. For example, VREALM_1. • **Partition**: The unique site name for the SAP Ariba Sourcing solution in SAP ERP. For example, PREALM_1. • **Low**: Enter the number of records that needs to be included in each master data export batch task.
MATERIAL_CLASSIFICATION	Applicable only for SAP Ariba Sourcing with Product sourcing. This is an optional field. This parameter allows you to include the *Classification* view for the material master. Set this parameter to X to import the values for the *Classification* view for the material master. When you do not set this parameter, the master data program does not	• **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Sourcing solution in SAP ERP. For example, VREALM_1. • **Partition**: The unique site name for the SAP Ariba Sourcing solution in SAP ERP. For example, PREALM_1.

Parameter name	Description	Values to maintain
	import the fields maintained in the *Classification* view.	• **Low**: Enter X to import the values for the *Classification* view for the material master. When you do not set this parameter, the master data program does not import the fields maintained in the *Classification* view.
ENABLE_CONV_MATERIAL_ONLY	Applicable to SAP Ariba Sourcing. This field is optional. This parameter allows you to specify the option to include or ignore the preceding zeros for a material number. When you set the value to X, the master data program ignores the preceding zeroes for the material number. If you do not specify this parameter, the master data program includes the preceding zeros for the material available in the material master when you run the master data program.	• **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Sourcing solution in SAP ERP. For example, VREALM_1. • **Partition**: The unique site name for the SAP Ariba Sourcing solution in SAP ERP. For example, PREALM_1. • **Low**: Enter X to ignore the preceding zeros for a material number. If you do not specify this parameter, the master data program includes the preceding zeros for the material available in the material master when you run the master data program.
IGNORE_PLANT_EXTN	Applicable to SAP Ariba Sourcing. This field is optional for the ARBCIG_MASTER_DATA_EXPORT program. This parameter enables you to extract all the material master information irrespective of the material being extended to a plant. Set the value to X to extract all materials with and without plant extensions. If you leave this field blank, only materials with plant extensions are extracted.	• **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Sourcing solution in SAP ERP. For example, VREALM_1. • **Partition**: The unique site name for the SAP Ariba Sourcing solution in SAP ERP. For example, PREALM_1. • **Low**: Enter X to extract all materials with and without plant extensions. If you leave this field blank, only materials with plant extensions are extracted.

Maintaining Parameters for Enabling the Integration of Pricing Scales with Purchase Info Records

Context

To maintain the parameters required for enabling the integration of pricing scales from SAP Ariba strategic sourcing solutions with the Purchase Info Records (PIR) in buyer's SAP ERP or SAP S/4HANA, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** page appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Purchase Info Records**
4. Click **IMG-Activity** for **Maintain Parameters**.
5. Maintain the following parameters:

   Table 3: Parameter for Enabling Pricing Scale Integration

Parameter Name	Description	Supported Values
ENABLE_SCALES_PIR	Use this parameter to enable the integration of scales from SAP Ariba strategic sourcing solutions with PIR. This parameter applies to the SAP ERP version EHP 7 and higher and all the supported versions of SAP S/4HANA.	• **Variable Name**: ENABLE_SCALES_PIR • **Field Name**: Leave it empty. • **Number**: 0000 • **Variant**: Enter the name of the variant. For example, VSAP. • **Partition**: Enter the name of the partition. For example, PSAP. • **Low**: Enter **X** to enable the integration of scales from SAP Ariba strategic sourcing solutions with PIR. Leave it blank to disable the integration of pricing scales. Disabling this feature will not prevent you from using the PIR integration.

Maintaining the Mapping of Ariba Condition Types to SAP Condition Types for Purchase Info Records

Context

To maintain the mapping of Ariba condition types to SAP condition types for Purchase Info Records (PIR), perform the following steps:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** page appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Purchase Info Records**
4. Click **IMG-Activity** for **Maintain Ariba Condition Types**.

   The **Change View "Mapping table for Ariba conditions in SAP": Overview** page appears.
5. On the application toolbar, click **New Entries**.

   The **New Entries: Details of Added Entries** page appears.
6. Enter the following details and click **Save**:

Field	Description
Ariba Solution	Choose the SAP Ariba strategic sourcing solutions integration name from the list.
Ariba condition Type	Enter the Ariba condition type. For example, DISCOUNT, GROSSAMOUNT, GROSSPRICE, and so on.n
SAP Condition Type	Enter the SAP condition type. For example, RA01, PBXX, PB00, and so on.

Importing Master Data from SAP ERP to SAP Ariba Sourcing and SAP Ariba Contracts

Context

You can run the `ARBCIG_MASTER_DATA_EXPORT` program manually to import master data from SAP ERP to SAP Ariba Sourcing and SAP Ariba Contracts. Ensure that you have the necessary authorization to run the master

data program. You can schedule a background job to run the task of importing the master data by running the transaction code `SM36`.

Procedure

1. Run the transaction code `SE38`.
2. Run the `ARBCIG_MASTER_DATA_EXPORT` program.

   The **Export All Master Data Required For On-Demand Application** page appears.
3. Choose **Sourcing and Contracts**.
4. Select the **Test Run** option when you want to run the master data program and check the contents in the .csv file. The master data .csv file is downloaded on your SAP application server. Ensure that the application server directory exists with the necessary permissions before running the master data import.

   When you run the incremental load subsequently, the stage table `ARBCIG_CHANGEDOC` continues to store the previous extracted data for the first run using the **Test Run** option.

   Specify the directory path in the **Dir Path for file download** field.
5. In the **Solution** section, choose **Sourcing and Contracts**.
6. In the section **Load Options**, choose one of the following:

   - **Full Load**: Imports all the master data records that are available for the master data type.
   - **Incremental Load**: Imports the master data records that have been updated since the last master data export event from the SAP ERP system. You can import material master data only using the incremental load option.
7. Specify the encoding in the **Encoding to be used**. The encoding and charset to convert the data in the CIF file. For example, UTF-8. This is a required field and is case-sensitive.
8. Enter a value in the **Variant** field. Specify the unique variant name for SAP Ariba Sourcing in your SAP ERP system. For example, VREALM_1.
9. Enter a value in the **Partition** field. Specify the unique site name for SAP Ariba Sourcing in your SAP ERP system. For example, PREALM_1.
10. If you have selected the **Full Load** option, check one or more of the following options:

    - **Plant**
    - **CompanyCode**
    - **PurchaseOrg**
    - **PlantPurchaseOrg**
    - **PurchaseGroup**
    - **Payment Terms**
    - **IncoTerms**
    - **Material Master**
    - **ItemCategory**
    - **ERPCommodityCode** (Material Group)

    If you have selected the **Incremental Load** option, only the **Material Master** option is available for selection. To import material master data in the incremental mode, check **Material Master**.

To resend the material master information again, enter the range values for material item. For more information, see Resending Master Data or Catalog Upload Request [page 81].

> → Tip
>
> Material master data contains large volume of information. For best performance, always set filters that specify the criteria based on which you can import smaller subsets.

11. Click the **Execute** button to import the selected master data.

Implementing the BAdI for Purchase Info Records

Context

You can implement the BAdI `ARBCIG_PURINFREC` to customize the fields in the purchase info records that are created from the SAP Ariba awards. This BAdI is called in the class `CL_ARBCIG_PURCHASEINFO_IMPL`.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Enhancements** > **Business Add-Ins(BAdIs)** > **BAdIs for Purchase Info Record**
4. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: `ARBCIG_PURINFREC`

   The following table lists methods that you can implement:

Method Name	Description
MAP_PIR	To map additional fields to a purchase info record.
MAP_PIR_CHANGE	To map the changes to the custom fields of a purchase info record.
POST_PROCESSING	To customize and send a confirmation to SAP Ariba after creating the purchase info record.
CONDITION_MAP	Conditions used to map additional fields to a purchase info record.
PRE_PROCESS_PIR	Pre-processing for the pricing scales in PIR creates/ changes (SAP EHP7 and higher versions).

Method Name	Description
POST_PROCESS_PIR	Post-processing for the pricing scales in PIR creates/ changes (SAP EHP7 and higher versions).

Maintaining Field Map for Master Data in SAP Ariba Sourcing and SAP Ariba Contracts

Context

You need to maintain the field map when you add new custom fields for the master data in the customized RFC structure. Maintain the field, its structure, and the corresponding SAP Ariba field name for the new field in the field map table. This table allows you to maintain the mapping between SAP ERP fields and SAP Ariba fields for SAP Ariba Sourcing or SAP Ariba Contracts. If you do not add this field, SAP Integration Suite, managed gateway displays the SAP field name on SAP Business Network, SAP Ariba Sourcing , and SAP Ariba Contracts.

Ensure that you do not change the default values.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data** > **Enhancements** > **Maintain Field Map for Master Data** >.
4. Click **IMG-Activity** for **Maintain Field Map for Master Data and Catalog Upload Request**.

   The **Change View "Table to maintain mapping of SAP to Buyer fields": Overview** screen appears.
5. Click **New Entries**.
6. Enter the following details:
   - **Solution**: Choose a solution.
   - **Structure**: Enter a structure name. For example, `ARBCIG_CONTRACTACCOUNTINGS`
   - **Field SAP**: Enter the SAP ERP field name that you want to map. For example, `QUANTITY`
   - **Field Ariba**: Enter the field name for the SAP Ariba solution you want to map. For example, `Quantity`
7. Click **Save**.

Integrating SAP Retail with SAP Ariba Strategic Sourcing Suite

This section provides information about integrating SAP Retail with SAP Ariba Strategic Sourcing Suite:

> **Note**
>
> When you use SAP S/4HANA, on-premise edition 2020 with SAP Retail with SAP Ariba strategic sourcing solutions, ensure that you apply the SAP Note 2907319.

Scheduling the Jobs for Retail Master Data Integration [page 141]

About Configuring Filters [page 142]

Configuring General Settings for Integrating SAP Retail with SAP Ariba Strategic Sourcing Suite [page 143]

About Integrating Characteristics and Characteristic Profiles or Configuration Class [page 149]

About Integrating Merchandise Category and Merchandise Hierarchy [page 155]

About Sending the Retail Master Data Deleted in SAP Retail to SAP Ariba Strategic Sourcing Suite [page 156]

About Sending Article Master Data to SAP Ariba Strategic Sourcing Suite [page 161]

Sending Retail Master Data from SAP Ariba Strategic Sourcing Suite to SAP Retail [page 166]

Scheduling the Jobs for Retail Master Data Integration

To facilitate the integration of retail master data, you must schedule the jobs described in this section.

Jobs to Be Scheduled for Sending Master Data in Full Load

The following table lists the program to be used for scheduling the jobs for sending master data in full load from SAP Retail to SAP Ariba Strategic Sourcing Suite:

Master data to be sent	Program for scheduling the job	Message type
Characteristics master data	RBDSECHR	CHRMAS
Characteristic profile or configuration class master data	RBDSECLF	CLSMAS
Merchandise category and merchandise hierarchy master data	ARBCIGR_RBDSEWGR	WMERCAT
Article master data (single, generic, and variant articles)	RBDSEART	ARTMAS

Master data to be sent	Program for scheduling the job	Message type
Article master data (structured article)	RBDSEART, ARBCIGR_RBDSEBOM	ARTMAS, BOMMAT

Jobs to Be Scheduled for Sending Master Data in Incremental Loads

The following table lists the program to be used for scheduling the jobs for sending master data in incremental loads from SAP Retail to SAP Ariba Strategic Sourcing Suite:

Master data to be sent	Program for scheduling the job	Message type
Characteristics master data	RBDMIDOC	CHRMAS
Characteristic profile or configuration class master data	RBDMIDOC	CLSMAS
Article master data using the ARBCIGR_BOMMAT IDoc	RBDMIDOC	BOMMAT
Article master data using the ARBCIGR_ARTMAS IDoc	RBDMIDOC_RETAIL	ARTMAS

Jobs to Be Scheduled for Sending Response to the Article Master Data Send in Using the ARTMAS and the BOMMAT Message Types

In SAP Retail, you must schedule the job to send responses to the inbound article master data from SAP Ariba Strategic Sourcing Suite to SAP Retail using the ARTMAS and the BOMMAT message types.

Description of the job to be scheduled	Program for scheduling the job	Message type
Response to the article master data send in from SAP Ariba Strategic Sourcing Suite to SAP Retail	RBDSTATE	ALEAUD

About Configuring Filters

You must mandatorily configure filters in SAP Retail to send a specific set of master data to SAP Ariba Strategic Sourcing Suite. The filters also help you determine the type of master data that you want to send. Use filters if you want to send a particular type of master data in bulk from SAP Retail to SAP Ariba Strategic Sourcing Suite.

For more information, see Configuring Filters for Determining a Specific Type of Master Data to Send to SAP Ariba Strategic Sourcing Suite [page 143]

Configuring Filters for Determining a Specific Type of Master Data to Send to SAP Ariba Strategic Sourcing Suite

Context

To configure filters for determining a specific type of master data to send to SAP Ariba Strategic Sourcing Suite, perform the following steps. You must mandatorily configure the filters.

Procedure

1. On the *SAP Easy Access* page, run the transaction code `BD64`.

   The *Display Distribution Model* page appears.
2. Click **Switch Between Display and Edit Mode**.

   The *Change Distribution Model* page appears.
3. In the *Distribution Model* column, under *Model Views*, navigate to **Receiver determination: no filter** related to retail master data.
4. Double-click **Receiver determination: no filter**.

   The *Filter Changed* page appears.
5. Click **Create Filter Group**.
6. Navigate to **Receiver Determination** > **Filter group** .
7. Double-click the following as required. On the *Edit List of Values* page, click **Insert Row**, enter the values required for filtering the master data, and click **Continue**.
   - **Material Category**
   - **Material Group**
   - **Material type**
   - **Plant**
8. Click **Save**.

Configuring General Settings for Integrating SAP Retail with SAP Ariba Strategic Sourcing Suite

The following sections describe how to maintain the parameters and implement the BAdIs for integrating SAP Retail with SAP Ariba Strategic Sourcing Suite.

Assigning Basic Type to SAP Ariba ARTMAS IDOC

Context

To assign ARBCIGR_ARTMAS basic type to the ARTMAS message type for the outbound and the inbound parameters, perform the following steps:

Procedure

1. On the *SAP Easy Access* screen, run the transaction code **SPRO**.

   The *Customizing: Execute Project* page appears.
2. Click **SAP Reference IMG**.

   The *Display IMG* page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **General Settings** > **Retail Integration** > **Assign Basic Type to SAP Ariba ARTMAS IDOC**.
4. Click **IMG-Activity** for **Assign Basic Type to SAP Ariba ARTMAS IDOC**.

   The *Display View "Output Types and Assignment to IDoc Types": Overview* page appears.
5. Click **Display --> Change**.

   The *Change View "Output Types and Assignment to IDoc Types": Overview* page appears.
6. Click **New Entries**.

   The *New Entries: Overview of Added Entries* page appears.
7. Enter the following details and click **Save**:
   - **Message Type**: ARTMAS
   - **Basic Type**: ARBCIGR_ARTMAS
   - **Extension**: Blank (No values)
   - **Release**: 700

Maintaining Parameters for Article Master Data Integration

Maintain the required parameters for integrating SAP Retail with SAP Ariba Strategic Sourcing Suite.

Context

To maintain parameters, perform the following steps:

Procedure

1. Run the transaction code `SPRO`.

   The *Customizing: Execute Project* page appears.
2. Click **SAP Reference IMG**.

   The *Display IMG* page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **General Settings** > **Maintain Parameters** > **SAP Retail Integration** .
4. Click **IMG-Activity** for SAP Retail Integration.

   The *Parameters - SAP Retail Integration* page appears.
5. Maintain the following parameters:

Parameter name	Description	Supported values
RETAIL_MASTER_ENABLED	Enable the `ARBCIGR_MASTER_DATA` implementation of the BAdI `IDOC_DATA_INSERT`. The `ARBCIGR_MASTER_DATA` implementation adds the details of the material category of article to the outbound `ARBCIGR_BOMMAT IDOC`. This implementation also triggers a customized IDOC acknowledging the article master data received from the SAP Ariba Strategic Sourcing Suite.	• *Variable Name*: ARTICLE_MASTER_ENABLED • *Selection cat.*: P • *Number*: `0` • *INCL/EXCL*: `I` • *Option*: EQ • *Selection value*: X

Parameter name	Description	Supported values
ARTICLE_INBOUND_ENABLED	Enable the `ARBCIGR_ARTICLE_MAPP` implementation of the BAdI `IDOC_DATA_MAPPER`. The `ARTICLE_INBOUND_ENABLED` parameter adds the usage details of the Bill of Materials to the inbound `ARBCIGR_BOMMAT IDOC`.	• *Variable Name*: ARTICLE_INBOUND_ENABLED • *Selection cat.*: P • *Number*: 0 • *INCL/EXCL*: I • *Option*: EQ • *Selection value*: X
ARTICLE_INARTICLE_ENABLED	Enable the `ARBCIGR_ARTICLE_MAPP` implementation of the BAdI `IDOC_DATA_MAPPER`. The `ARTICLE_INARTICLE_ENABLED` parameter checks whether the material type has internal or external number range and passes on the internal number article ID to IDOC if the material type is of internal number range. Otherwise it passes on external or sourcing ID to IDOC. If both the internal and the external number ranges are assigned, the internal number range will take precedence over the the external number range.	• *Variable Name*: ARTICLE_INARTICLE_ENABLED • *Selection cat.*: P • *Number*: 0 • *INCL/EXCL*: I • *Option*: EQ • *Selection value*: X

Implementing BAdI for Managing Retail IDOCs

Context

You can implement the BAdI `ARBCIGR_ARTICLE_MASTER` that applies to all retail IDOCs to do the following:

- Usage details of the bill of materials in the inbound `ARBCIGR_BOMMAT` IDOC
- Add additional information using the SAP Ariba extension IDOC segments
- Customize the acknowledgment of the article master data received from SAP Ariba Strategic Sourcing Suite

Procedure

1. Run the transaction code **SPRO**.

The *Customizing: Execute Project* page appears.

2. Click **SAP Reference IMG**.

   The *Display IMG* page appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Enhancements Business Add-Ins (BAdIs)** > **SAP Ariba Retail Integration** > .

   To know more details about the BAdI `ARBCIGR_ARTICLE_MASTER`, click the IMG activity documentation node of *BAdI for managing retail IDOCs*.

4. Implement the standard BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: `ARBCIGR_ARTICLE_MASTER`

   The following table lists the methods that you can implement:

Method name	Description
`ARIBA_CUSTOMIZE_RETAIL_IN`	To customize the usage details of the bill of materials in the inbound `ARBCIGR_BOMMAT` IDOC for the article master data.
`ARIBA_CUSTOMIZE_RETAIL_OUT`	To add or modify the data in the IDOC to be sent to SAP Ariba Strategic Sourcing solutions. This includes modifying SAP Ariba IDOC extension framework, modifying outbound IDOC, and acknowledging the receipt of articles from SAP Ariba Strategic Sourcing Suite.

Implementing BAdI for Customizing the Deleted Article Master Data Information

Context

You can implement the BAdI `ARBCIGR_SEND_RETAIL_DEL_MASTER` to customize the deleted characteristics and characteristic profile or configuration class to be sent to SAP Ariba Strategic Sourcing Suite.

Procedure

1. Run the transaction code `SPRO`.

   The *Customizing: Execute Project* page appears.

2. Click **SAP Reference IMG**.

   The *Display IMG* page appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Enhancements** > **Business Add-Ins (BAdIs)** > **SAP Ariba Retail Integration**.

   To know more details about the BAdI `ARBCIGR_SEND_RETAIL_DEL_MASTER`, click the **IMG activity documentation** node of *BAdI for Deleted Article Master Data Information*.
4. Implement the standard BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: `ARBCIGR_SEND_RETAIL_DEL_MASTER`

   The following table lists the methods that you can implement:

Method name	description
PRE_PROCESS	To modify the proxy data and restrict sending this data to SAP Ariba Strategic Sourcing Suite.
POST_PROCESS	To use or modify the proxy data and the application log data.

Implementing BAdI for Customizing the IDOC Segment for Merchandise Category and Merchandise Hierarchy

Context

You can implement the BAdI `ARBCIGR_MERCHCAT` to customize the IDOC segment for merchandise category and merchandise hierarchy.

Procedure

1. Run the transaction code `SPRO`.

   The *Customizing: Execute Project* page appears.
2. Click **SAP Reference IMG**.

   The *Display IMG* page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Enhancements** > **Business Add-Ins (BAdIs)** > **SAP Ariba Retail Integration**.

   To know more details about the BAdI `ARBCIGR_MERCHCAT`, click the **IMG activity documentation** node of *BAdI for Merchandise Category and Hierarchy*.
4. Implement the standard BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: `ARBCIGR_MERCHCAT`

The following table lists the method that you can implement:

Method Name	Description
ARIBA_CUSTOMIZE_MERCHCAT	To customize the IDOC segment for merchandise category and merchandise hierarchy.

About Integrating Characteristics and Characteristic Profiles or Configuration Class

You can use characteristics to provide more information about an article to the customers. Characteristics describe the articles in detail. You can assign one or more characteristics of the product at the level of merchandise category or at the level of merchandise hierarchy.

One or more characters together can form a characteristic profile or configuration class. You can assign a characteristics profile or configuration class to one or more merchandise categories.

To send characteristics and characteristic profile or configuration class master data from SAP Retail to SAP Ariba Strategic Sourcing Suite using SAP Integration Suite, managed gateway, the IDOC of the following message types are used:

Characteristics	CHRMAS
Characteristic profile or configuration class	CLSMAS

To integrate characteristics and characteristic profile or configuration class master data from SAP Retail to SAP Ariba Strategic Sourcing Suite in full load and in incremental loads, see:

- Integrating Characteristics and Characteristic Profile or Configuration Class Master Data in Full Load [page 149]
- Integrating Characteristics and Characteristic Profile or Configuration Class Master Data in Incremental Loads [page 152]

You can delete the characteristics and characteristic profile or configuration class master data in SAP Retail and send that information to SAP Ariba Strategic Sourcing Suite. For more information, see About Sending the Retail Master Data Deleted in SAP Retail to SAP Ariba Strategic Sourcing Suite [page 156].

Integrating Characteristics and Characteristic Profile or Configuration Class Master Data in Full Load

This section describes how to integrate characteristics and characteristic profile or configuration class master data in full load from SAP Retail to SAP Ariba Strategic Sourcing Suite using SAP Integration Suite, managed gateway.

- Integrating Characteristics Information as Master Data in Full Load [page 150]
- Integrating Characteristic Profile or Configuration Class Information as Master Data in Full Load [page 151]

To send characteristic profile information as master data in full load to SAP Ariba Strategic Sourcing Suite, you must mandatorily configure the filter group for the CLSMAS message type with the following filters:

- `MMS Class Type = 2`
- `Class Type = 300`

> **Note**
>
> Before you configure the filter group for the CLSMAS message type, you must configure the ALE Object type and assign it to the message type.

For more information, see Configuring Filters to Send Characteristic Profile or Configuration Class Master Data in Full Load Using CLSMAS IDOC [page 150]

Integrating Characteristics Information as Master Data in Full Load

Context

To send characteristics information as master data in full load to SAP Ariba Strategic Sourcing Suite, perform the following steps:

Procedure

1. On the *SAP Easy Access* page, run the transaction code `BD91`.

   The *Distribute All Characteristics via ALE* page appears.
2. Enter the name of the logical system assigned to SAP Integration Suite, managed gateway
3. On the **Program** menu, click **Execute in Background**.

Configuring Filters to Send Characteristic Profile or Configuration Class Master Data in Full Load Using CLSMAS IDOC

Prerequisites

You must configure the ALE Object type and assign it to the message type.

Context

SAP recommends configuring filters for sending characteristic profile or configuration class master data in full load using CLSMAS IDOC. Perform the following steps to do this configuration:

Procedure

1. On the *SAP Easy Access* page, run the transaction code `BD64`.

   The *Display Distribution Model* page appears.
2. Click **Switch Between Display and Edit Mode**.

   The *Change Distribution Model* page appears.
3. In the *Distribution Model* column, under *Model Views*, navigate to the CLSMAS message type related to retail master data.
4. Click **CLSMAS** > **No filter set** and Double-click **No filter set**.

   The *Change Filter* page appears.
5. Click *Create filter group*.
6. Navigate to **Data filtering** > **Filter group** and do the following:
   a. Double-click **MMS Class Type**. On the *Edit List of Values* page, click **Insert Row**, enter the value **2**, and click **Continue**.
   b. Double-click **Class Type**. On the *Edit List of Values* page, click **Insert Row**, enter the value **300**, and click **Continue**.
7. Click **Save**.

Integrating Characteristic Profile or Configuration Class Information as Master Data in Full Load

Prerequisites

- You must configure the ALE Object type and assign it to the message type CLSMAS
- You must configure the filter group for the CLSMAS message type with the following filters:
  - `MMS Class Type = 2` (for SAP ERP and SAP S/4 HANA)
  - `Class Type = 300` (for SAP ERP and SAP S/4 HANA)
- For more information, see Configuring Filters to Send Characteristic Profile or Configuration Class Master Data in Full Load Using CLSMAS IDOC [page 150]

Context

To send characteristic profile or configuration class information as master data in full load to SAP Ariba Strategic Sourcing Suite, perform the following steps:

Procedure

1. On the *SAP Easy Access* page, run the transaction code `BD92`.

   The *Distribute Classes via ALE: Send Direct* page appears.
2. Enter the following details of the characteristic profile or configuration class that you want to send to SAP Ariba Strategic Sourcing Suite. On the **Program** menu, click **Execute in Background**:

Field	Description
Class type	Enter **`026`** for running full load for characteristic profile. (For SAP ERP) Enter **`300`** for running full load for configuration class. (for SAP S/4 HANA)
Class	Enter ***** to send all characteristic profile or configuration class from SAP ERP or SAP S/HANA. To distribute characteristic profile or configuration class, specify their names.
Logical system	Enter the name of the logical system assigned to SAP Integration Suite, managed gateway.

Integrating Characteristics and Characteristic Profile or Configuration Class Master Data in Incremental Loads

Before you integrate characteristics and characteristic profile or configuration class master data in incremental loads from SAP Retail to SAP Ariba Strategic Sourcing Suite using SAP Integration Suite, managed gateway, you must perform the following tasks:

- Activating Change Pointers in General for All Message Types [page 153]
- Activating Change Pointers for Individual Message Types [page 153]

After you perform the prerequisite tasks, perform the following task to integrate characteristics and characteristic profile or configuration class master data in incremental load:

- Integrating Characteristics and Characteristics Profile or Configuration Class Information as Master Data in Incremental Loads [page 154]

Activating Change Pointers in General for All Message Types

Context

Perform general activation of the change pointers for all message types.

After you perform this task, you must activate the change pointers for each message type. Activating the change pointers for the message types is mandatory for integrating SAP Retail master data with SAP Ariba Strategic Sourcing Suite in incremental loads.

Procedure

1. On the *SAP Easy Access* page, run the transaction code `BD61`.

   The *Activate Change Pointers Generally* page appears.
2. Under *Activation status*, check **Change Pointers activated - generally** and click **Save**.

Activating Change Pointers for Individual Message Types

Context

To activate the change pointers for each message type, perform the following steps.

> **Note**
>
> Before you perform this task, you must activate the change pointers generally.

Procedure

1. On the *SAP Easy Access* page, run the transaction code `BD50`.

   The *Change View "Activate Change Pointers for Message Type": Overview* page appears.
2. In the *Activate Change Pointers for Message Type* table, check **activate** for the following message types and click **Save**:
   - WMERCAT
   - CHRMAS
   - CLSMAS
   - ARTMAS
   - BOMMAT

Integrating Characteristics and Characteristics Profile or Configuration Class Information as Master Data in Incremental Loads

Prerequisites

You must perform the following prerequisites:

- Activate change pointers generally
  For more information, see Activating Change Pointers in General for All Message Types [page 153]
- Activate change pointers for the message types `CHRMAS` and `CLSMAS` to enable generation of IDOCs for characteristics and characteristics profile or configuration class master data
  For more information, see Activating Change Pointers for Individual Message Types [page 153]

Context

To send characteristics and characteristics profile or configuration class information as master data in incremental loads to SAP Ariba Strategic Sourcing Suite, perform the following steps:

> ### Note
>
> This report supports sending incremental load that contains newly created or modified characteristics and characteristics profile or configuration class master data. This report does not support sending the master data that is deleted.
>
> For more information on sending the deleted characteristics and characteristics profile or configuration class master data, see the **About sending the retail master data deleted in SAP Retail to SAP Ariba Strategic Sourcing Suite** section in this guide.

Procedure

1. On the *SAP Easy Access* page, run the transaction code `BD21`.

   The *Creating IDoc Type from Change Pointers* page appears.
2. In the **Message Type** field, select each of the following message types. Perform **Step 3** - **Step 5** for each of them.
   - `CHRMAS`: For the modified characteristics data.
   - `CLSMAS`: For the modified characteristics profile or configuration class data.
3. On the **Goto** menu, click **Variants** > **Save As Variant**.

   The **Variant Attributes** page appears.
4. Do the following and click **Save**.
   1. In the **Variant Name** field, enter the name of the variant.
   2. In the **Descript.** field, enter the description for the variant.

3. Check **Only for Background Processing**.

5. Schedule the jobs for processing both of the variants in the background.

About Integrating Merchandise Category and Merchandise Hierarchy

Merchandise category is a logical grouping of the articles. A retail administrator can assign an article to a specific merchandise category across the retail company. A merchandise category is the basic component of a merchandise hierarchy. The retail administrator can assign a merchandise hierarchy in a retail company to one or more higher merchandise hierarchy levels. The merchandise hierarchy facilitates efficient management of merchandise categories.

To send merchandise category and merchandise hierarchy master data from SAP Retail to SAP Ariba Strategic Sourcing Suite using SAP Integration Suite, managed gateway, the IDOC of the message type WMERCAT is used.

> ⓘ Note
>
> You can integrate merchandise category or merchandise hierarchy information as master data from SAP Retail to SAP Ariba Strategic Sourcing Suite only in full load. Integrating merchandise category or merchandise hierarchy master data in incremental load is not supported.

For more information, see Integrating Merchandise Category or Merchandise Hierarchy Information as Master Data in Full Load [page 155].

You can also delete the merchandise category master data in SAP Retail and send this information to SAP Ariba Strategic Sourcing Suite. For more information, see About Sending the Retail Master Data Deleted in SAP Retail to SAP Ariba Strategic Sourcing Suite [page 156].

Integrating Merchandise Category or Merchandise Hierarchy Information as Master Data in Full Load

Context

To integrate merchandise category or merchandise hierarchy from SAP Retail to SAP Ariba Strategic Sourcing Suite, perform the following steps:

Procedure

1. On the *SAP Easy Access* page, run the transaction code `ARBCIGR_WAFS`.

   The **Direct Transfer of Material Group Hierarchies** page appears.

2. In the Logical system, enter the name of the logical system assigned to SAP Integration Suite, managed gateway.

3. Select each of the following and perform **Step 4** - **Step 6** for each of them.
    - Merchandise Category
    - Material Hierarchy
4. On the **Goto** menu, click **Variants** > **Save As Variant**.

    The **Variant Attributes** page appears.
5. Do the following and click **Save**.
    1. In the **Variant Name** field, enter the name of the variant.
    2. In the **Descript.** field, enter the description for the variant.
    3. Check **Only for Background Processing**.
6. Schedule the jobs for processing both of the variants in the background.

About Sending the Retail Master Data Deleted in SAP Retail to SAP Ariba Strategic Sourcing Suite

You can delete the following retail master data in SAP Retail and send that information to SAP Ariba Strategic Sourcing Suite:

- Characteristics
- Characteristics profile or configuration class
- Merchandise category

Before you send the information about the deleted master data from SAP Retail to SAP Ariba Strategic Sourcing Suite, you must ensure the following:

- The master data that you want to delete exists in SAP Ariba Strategic Sourcing Suite as well.
- Configure the following implicit enhancements to collect the deleted data in realtime:
    - Implicit enhancement for collecting the deleted characteristics master data. For more information, see Configuring Implicit Enhancement for Collecting the Deleted Characteristics Master Data [page 157]
    - Implicit enhancement for collecting the deleted characteristics profile or configuration class master data. For more information, see Configuring Implicit Enhancement for Collecting the Deleted Characteristic Profile or Configuration Class Master Data [page 158]
    - Implicit enhancement for collecting the deleted merchandise category master data. For more information, see Configuring Implicit Enhancement for Collecting the Deleted Merchandise Category Master Data [page 159]
- Configure an outbound proxy on the **Interface Setup Program for SAP Ariba Strategic Sourcing** page to send the deleted master data information to SAP Ariba Strategic Sourcing Suite
  To create this outbound proxy, check **Retail Master Data Delete** on the *Interface Setup Program for SAP Ariba Strategic Sourcing* screen.

The implicit enhancement that you configure collects the information about the deleted characteristic, characteristic profile or configuration class, and merchandise category master data. SAP Retail uses the proxy that you configure to send the information about the deleted master data to SAP Ariba Strategic Sourcing Suite. To trigger the proxy, you must run a report. For more information about how to run this report, see Sending the Information About the Retail Master Data Deleted in SAP Retail to SAP Ariba Strategic Sourcing Suite [page 160].

Configuring Implicit Enhancement for Collecting the Deleted Characteristics Master Data

Context

Configure the following implicit enhancement to collect the deleted characteristics master data.

> **Note**
>
> If you are on SAP S/4HANA 2020 FPS0 or later versions, or SAP ERP Ehp04 or later versions, do not configure this implicit enhancement. Install software component ARBCI2 and apply the SAP Note 2973031 to use the standard BAdIs in SAP S/4HANA.

Procedure

1. On the *SAP Easy Access* page, run the transaction code SE38.

   The *ABAP Editor: Initial Screen* appears.
2. In the **Program** field, enter **`LV00FF0T`** and click **Display**.
3. Click **Enhance** in the application toolbar.
4. Click **Edit** > **Enhancement Operations** > **Show Implicit Enhancement Options** . Create the enhancement at the beginning of the form *T185_LESEN*.
5. Right-click and select **Enhancement Implementation** > **Create** .

   The *Choose Type of Enhancement* popup appears.
6. Click **Code**.

   The *Select or Create Enhancement Implementation* page appears.
7. Click **Create Enhancement Implementation**.

   The **Create Enhancement Implementation** popup appears.
8. Enter a name and description for the enhancement and click **Create Enhancement**.
9. On the *Create Object Directory Entry* popup, specify your Z or Y package, press **Enter**, and save the package to a transport request.
10. On the *Select or Create Enhancement Implementation* popup, select the enhancement and click **Select Specified Enhancement Implementation**.
11. Enter the include: `INCLUDE ARBCIGR_DELETE_CHAR IF FOUND`.
12. Activate the enhancement and save it.

Configuring Implicit Enhancement for Collecting the Deleted Characteristic Profile or Configuration Class Master Data

Context

Configure the following implicit enhancement to collect the deleted characteristic profile or configuration class master data:

> **Note**
>
> If you are on SAP S/4HANA 2020 FPS0 or later versions, or SAP ERP Ehp04 or later versions, do not configure this implicit enhancement. Install software component ARBCI2 and apply the SAP Note 2973031 to use the standard BAdIs in SAP S/4HANA.

Procedure

1. On the *SAP Easy Access* page, run the transaction code SE38.

   The *ABAP Editor: Initial Screen* appears.
2. In the **Program** field, enter **LCLMOF2Z** and click **Display**.
3. Click **Enhance** in the application toolbar.
4. Click **Edit** > **Enhancement Operations** > **Show Implicit Enhancement Options** . Create the enhancement at the beginning of the form *VERWENDUNG_KLASSE*.
5. Right-click and select **Enhancement Implementation** > **Create** .

   The *Choose Type of Enhancement* popup appears.
6. Click **Code**.

   The *Select or Create Enhancement Implementation* page appears.
7. Click **Create Enhancement Implementation**.

   The **Create Enhancement Implementation** popup appears.
8. Enter a name and description for the enhancement and click **Create Enhancement**.
9. On the *Create Object Directory Entry* popup, specify your Z or Y package, press **Enter**, and save the package to a transport request.
10. On the *Select or Create Enhancement Implementation* popup, select the enhancement and click **Select Specified Enhancement Implementation**.
11. Enter the include: `INCLUDE ARBCIGR_DEL_CHARPROFILE_CLASS IF FOUND`.
12. Activate the enhancement and save it.

Configuring Implicit Enhancement for Collecting the Deleted Merchandise Category Master Data

Context

Configure the following implicit enhancement to collect the deleted merchandise category master data.

> **Note**
>
> You do not need to configure this implicit enhancement if you are on SAP S/4HANA 2020 FPS0 or later versions.
>
> You can apply the SAP Note 2991805 and SAP Note: 3011926 to use the standard BAdIs in SAP S/4HANA.

Procedure

1. On the *SAP Easy Access* page, run the transaction code `SE37`.

   The *Function Builder: Initial Screen* appears.
2. In the **Function Module** field, enter **`MERCHANDISE_GROUP_MODIFY`** and click **Display**.
3. Click **Enhance** in the application toolbar.
4. Click **Edit** > **Enhancement Operations** > **Show Implicit Enhancement Options**. Create the enhancement at the end of the function module *MERCHANDISE_GROUP_MODIFY*.
5. Right-click and select **Enhancement Operations** > **Create Implementation**.

   The *Choose Type of Enhancement* popup appears.
6. Click **Code**.

   The *Select or Create Enhancement Implementation* page appears.
7. Click **Create Enhancement Implementation**.

   The *Create Enhancement Implementation* popup appears.
8. Enter a name and description for the enhancement and click **Create Enhancement**.
9. On the *Create Object Directory Entry* popup, specify your Z or Y package, press Enter, and save the package to a transport request.
10. On the *Select or Create Enhancement Implementation* popup, select the enhancement and click **Select Specified Enhancement Implementation**.
11. Enter the include: `INCLUDE ARBCIGR_DELETE_MC IF FOUND.`
12. Activate the enhancement and save it.

Sending the Information About the Retail Master Data Deleted in SAP Retail to SAP Ariba Strategic Sourcing Suite

Context

This task helps synchronize the information about the deleted retail master data in SAP Retail and SAP Ariba Strategic Sourcing Suite.

To trigger the proxy that sends the information about the deleted master data to SAP Ariba Strategic Sourcing Suite, run the report as follows:

Procedure

1. On the *SAP Easy Access* page, run the transaction code `ARBCIGR_SND_DEL_MAST`.

   The *Sending Deleted Retail Master Data Information* page appears.
2. Under *Characteristics, Characteristics Profile/Configuration Class, Merchandise Category*, choose one of the following and click **Execute**.
   - **Send Deleted Retail Master Data Since Last Run**
   - **Send Specific, Deleted Retail Master Data**

   You can specify the range and processing criterion to send specific deleted master data information to SAP Ariba Strategic Sourcing Suite.

   Under *Range*, you can specify a range of deleted retail master data using the following.

   - Object ID
   - Object Type
   - Date
   - Time

   After you specify the range, you can choose one of the following processing criterion

   - **Send Newly Deleted Retail Master Data**
   - **Resend Deleted Retail Master Data**
   - **Send the Complete Deleted Master Data specified in the Range**

About Sending Article Master Data to SAP Ariba Strategic Sourcing Suite

The following table lists the six types of articles for which you can send master data from SAP Retail to SAP Ariba Strategic Sourcing Suite:

Article type	Description
Single article	Individual, stand-alone articles that customer can buy from a retail store.
Generic article	This type of article does not exist physically. The customer cannot buy them from a retail store. Generic articles are used for providing a reference to the variant article.
Variant article	This type of article also does not exist physically. Unlike a general article, a variant article is associated with one or more characteristics. For example, a shirt is a general article. A blue shirt of medium size is a variant article.
Sales set	A collection of a number of different single articles that you procure individually and sell together. For example, a fountain pen with two cartridges of ink is a sales set.
Prepack	A collection of single articles that you procure together and sell individually. For example, you can procure a collection of shoes that includes various sizes and colors and you can sell each pair as a single article.
Display set	A collection of single articles that you procure together and sell individually. However, unlike a prepack, you can sell only the components.

To send master data for these articles from SAP Retail to SAP Ariba Strategic Sourcing Suite using SAP Integration Suite, managed gateway, the IDOCs of the following message types are used:

Master data for articles	ARTMAS
Master data for components in a sales set, prepack, and a display set	BOMMAT

Initially, you can send single and structured article master data from SAP retail to SAP Ariba Strategic Sourcing Suite using full load. After the initial full load of article master data, you can use incremental loads to update the changes in the article master data in SAP Ariba Strategic Sourcing Suite

For more information, see:

- Integrating Simple Master Data from SAP Retail to SAP Ariba Strategic Sourcing Suite [page 162]
- Integrating Master Data of a Structured Article from SAP Retail to SAP Ariba Strategic Sourcing Suite [page 163]

> **Note**
>
> Before you send structured article master data from SAP Retail to SAP Ariba Strategic Sourcing Suite, you must configure the filtering of components. For more information, see Configuring Filters to Send Components Using BOMMAT IDOC [page 164]

Integrating Simple Master Data from SAP Retail to SAP Ariba Strategic Sourcing Suite

This section describes how to integrate simple master data in full load and in incremental load from SAP Retail to SAP Ariba Strategic Sourcing Suite using SAP Integration Suite, managed gateway. For more information, see:

- Integrating Simple Article Master Data in Full Load [page 162]
- Integrating Simple Article Master Data in Incremental Load [page 162]

Integrating Simple Article Master Data in Full Load

Context

Simple article master data includes single, generic, and variant master data. To integrate simple article master data in full load mode, perform the following steps:

Procedure

1. On the *SAP Easy Access* page, run the transaction code `ARBCIGR_SEART`.

   The *Send retail material* page appears.
2. In the **Logical System** field, enter the name of the logical system assigned to SAP Integration Suite, managed gateway.
3. Enter the details in the fields. On the **Program** menu, click **Execute in Background**.

Integrating Simple Article Master Data in Incremental Load

Prerequisites

You must perform the following prerequisites:

1. Activate change pointers generally
   For more information, see Activating Change Pointers in General for All Message Types [page 153]

2. Activate change pointers for the message types `ARTMAS` and `BOMMAT` to enable generation of IDOCs for articles and components.
   For more information, see Activating Change Pointers for Individual Message Types [page 153]

Context

To send simple article information as master data in incremental loads to SAP Ariba Strategic Sourcing Suite, perform the following steps:

Procedure

1. On the *SAP Easy Access* page, run the transaction code `ARBCIGR_AMDD`.

   The *Article Master Data Distribution (Packet Processing)* page appears.
2. To create a variant for the mesasge type ARTMAS, on the **Goto** menu, click **Variants** **Save As Variant** .

   The **Variant Attributes** page appears.
3. Do the following and click **Save**.
   1. In the **Variant Name** field, enter the name of the variant.
   2. In the **Descript.** field, enter the description for the variant.
   3. Check **Only for Background Processing**.
4. Schedule the jobs for processing both of the variants in the background.

Integrating Master Data of a Structured Article from SAP Retail to SAP Ariba Strategic Sourcing Suite

This section describes how to integrate master data of a structured article in full load and in incremental loads from SAP Retail to SAP Ariba Strategic Sourcing Suite using SAP Integration Suite, managed gateway. For more information, see:

- Integrating Master Data of Structured Articles in Full Load [page 164]
- Integrating Structured Article Master Data in Incremental Load [page 165]

Before you send the components of the structured retail article to SAP Ariba Strategic Sourcing Suite, you must configure the filter to send components using the BOMMAT IDOC. If you do not specify the master data types for which you want to associate components, BOMMAT IDOC sends all the available components (both material and article) to SAP Ariba Strategic Sourcing Suite each time you send components as part of the structured master data.

For more information, see Configuring Filters to Send Components Using BOMMAT IDOC [page 164]

Configuring Filters to Send Components Using BOMMAT IDOC

Context

To configure filters to send components using the BOMMAT IDOC, perform the following steps:

Procedure

1. On the *SAP Easy Access* page, run the transaction code `BD64`.

   The *Display Distribution Model* page appears.
2. Click **Switch Between Display and Edit Mode**.

   The *Change Distribution Model* page appears.
3. In the *Distribution Model* column, under *Model Views*, navigate to the BOMMAT message type related to retail master data.
4. Click **BOMMAT** > **No filter set** and double-click **No filter set**.

   The *Change Filter* page appears.
5. Click *Create filter group*.
6. Navigate to **Data filtering** > **Filter group** > **Material Category** and double-click **Material Category**.

   The *Edit List of Values* page appears.
7. Click **Insert Row** and enter values to add the following three article master data categories:

Value	Article master data category
10	Sales set
11	Prepack
12	Display set

8. Click **Save**.

Integrating Master Data of Structured Articles in Full Load

Context

The master data of structured articles is composed of multiple single articles that are structured as a single Bill of Material (BOM). This feature supports the integration of the master data of the following structured articles:

- Sales set
- Prepack
- Display set

To send the master data of a structured article from SAP Retail to SAP Ariba Strategic Sourcing Suite, both the ARTMAS and the BOMMAT IDOCs are required. The ARTMAS IDOC sends the data of single articles and the BOMMAT IDOC sends the data of the components.

> **Note**
>
> SAP recommends you to send the master data of the articles (ARBCIGR_SEART) before you send the master data of the components (RBCIGR_RBDSEBOM).

Procedure

1. On the *SAP Easy Access* page, run the transaction code ARBCIGR_SEART.

   The *Send retail material* page appears.
2. Enter the details of the material and click **Execute**.

   For more information, see the **How to integrate simple article master data in full load** section in this guide.
3. Navigate back to the *SAP Easy Access* page, and run the transaction code ARBCIGR_RBDSEBOM.

   The *SAP Ariba Full Load report for BOMMAT with packet size* page appears.
4. Ensure that the **Message Type** field displays BOMMAT. If not, enter the message type as BOMMAT.
5. In the **Logical System** field, enter the name of the logical system assigned to SAP Integration Suite, managed gateway.
6. Enter the details in the fields. On the **Program** menu, click **Execute in Background**.

Integrating Structured Article Master Data in Incremental Load

Prerequisites

You must do the following prerequisites:

1. Activate change pointers in general as described in the **How to activate change pointers generally** section
2. Activate change pointers for the message types ARTMAS and BOMMAT to enable generation of IDOCs for article and components as described in the **How to activate change pointers for message types** section.

Context

To send the structured article information as master data in incremental loads to SAP Ariba Strategic Sourcing Suite, perform the following steps:

Procedure

1. On the *SAP Easy Access* page, run the transaction code `ARBCIGR_AMDD`.

   The *Article Master Data Distribution (Packet Processing)* page appears.
2. Ensure that the **Message Type** field displays **ARTMAS**. If not, enter the message type as **`ARTMAS`**.
3. On the **Goto** menu, click **Variants** > **Save As Variant**.

   The **Variant Attributes** page appears.
4. Do the following and click **Save**.
   1. In the **Variant Name** field, enter the name of the variant.
   2. In the **Descript.** field, enter the description for the variant.
   3. Check **Only for Background Processing**.
5. Navigate back to the *SAP Easy Access* page, and run the transaction code `BD21`.

   The *Creating IDOC Type from Change Pointers* page appears.
6. In the **Message type** field, select `BOMMAT`. Perform **Step 3** - **Step 4** to save it as a variant.
7. Schedule the jobs for processing both the variants for ARTMAS and BOMMAT message types in the background.

Sending Retail Master Data from SAP Ariba Strategic Sourcing Suite to SAP Retail

On some occasions, you create articles in SAP Ariba Strategic Sourcing Suite and send the master data to SAP Retail. This feature supports the integration of the master data of single article, variant article, and display set article from SAP Ariba Strategic Sourcing Suite to SAP Retail.

For more information, refer to About Sending Retail Master Data from SAP Ariba Strategic Sourcing Suite to SAP Retail in SAP Integration Suite, Managed Gateway Overview Guide.

Sending Master Data of Single Article from SAP Ariba Strategic Sourcing Suite to SAP Retail [page 167]

Sending Master Data of Variant Article from SAP Ariba Strategic Sourcing Suite to SAP Retail [page 168]

Sending Master Data of Display Set Article from SAP Ariba Strategic Sourcing Suite to SAP Retail [page 169]

Sending Master Data of Single Article from SAP Ariba Strategic Sourcing Suite to SAP Retail

Context

To send master data of single article to SAP Retail, perform the following steps in SAP Ariba Strategic Sourcing Suite:

Procedure

1. On the SAP Ariba Strategic Sourcing Suite application, sign in to your realm as super user.
2. Navigate to the project that you have created for adding the single article.
3. In the projects page, under *Events*, click **Content**.
4. On the right-side panel, click **Add** > **Line Item** .

   The **Add Item** page appears.
5. Enter the following details and search for the single article that you want to update:

Field	Description
Name	Enter the name of the single article that you want to add.
Description	Enter a brief description about the single article that you want to add.
Category	Enter the merchandize category to which the single article belongs.

   A dialog box with the search result opens.
6. In the dialog box, click **Browse** and select the required merchandize hierarchy for the single article and click **OK**.
7. On the **Add Item** page, under **Item Terms**, enter the information in all the required fields and click **Done**.
8. On the **Content** page, click **Next**.
9. To add more single articles, repeat steps 4-8.
10. Go to the **Scenario** tab and click **Master Data Creation**.

Sending Master Data of Variant Article from SAP Ariba Strategic Sourcing Suite to SAP Retail

Prerequisites

A designated generic article must have sent from SAP Retail to SAP Ariba Strategic Sourcing Suite to give reference to the variant article master data.

Context

To send master data of variant article for a generic article sent from SAP Retail, perform the following steps in SAP Ariba Strategic Sourcing Suite:

Procedure

1. On the SAP Ariba Strategic Sourcing Suite application, sign in to your realm as super user.
2. Navigate to the project that you have created for adding the variant article for the generic article sent from SAP Retail.
3. In the projects page, under *Events*, click **Content**.
4. On the right-side panel, click **Add** > **Line Item** .

   The *Add Item* page appears.
5. Enter the following details and search for the variant article that you want to update:

Field	Description
Name	Enter the name of the variant article that you want to add.
Description	Enter a brief description about the variant article that y0u want to add.
Category	Enter the merchandize category to which the variant article belongs.

   A dialog box with the search result opens.
6. In the dialog box, click **Browse** and select the required merchandize hierarchy for the variant article and the referencing general artcile sent from SAP Retail and click **OK**.
7. On the *Add Item* page, under *Item Terms*, enter the information about the price, quantity, packaging and shipping costs characteristic value of the variant article, and the tax and click **Done**.
8. On the *Content* page of your project to add the variant article, view the details of the variant article that you have selected to add and click **Next**.
9. To add more variant articles, repeat steps 4-8.

10. Verify the information about all the variant articles that you have added and click **Update**.

Sending Master Data of Display Set Article from SAP Ariba Strategic Sourcing Suite to SAP Retail

Context

To send master data of display set article from SAP Ariba Strategic Sourcing Suite to SAP Retail, perform the following steps in SAP Ariba Strategic Sourcing Suite:

Procedure

1. On the SAP Ariba Strategic Sourcing Suite application, sign in to your realm as a buyer.
2. Navigate to the project that you have created for adding the display set article.
3. In the projects page, under events, click **Content**.
4. In the right-side panel, click **Add** > **Content from Article Master Data**.
5. In the **Add Content from Article Master Data** page, enter the following details and search` for the articles that you want to add to the display set:

Field	Description
Search box	Enter the article number, description, or merchandise category for search.
Plants	Enter the plant ID to perform the search based on plant.
Article Types	Enter the article type to perform the search based on the article type.

6. View the search results that are displayed in a table with the following details:

Field	Description
ID	Displays the article number or name of the display set.
Description	Displays the description with which article was created.
Type	Displays the type of article you have, single article, variant, generic, display set, and so on.
Category	Displays the merchandise category of the article.
Plant	Displays the Distribution Center (site) to which the article has been extended.
UOM	Displays the unit of measure of the material.
Ordering Unit	Displays any other UOM that you may have maintained as the ordering unit for the article.

Field	Description
Material Type	Displays the material type used to create the article is shown here.

To view the details of a display set, check the display set and in the **ID** column, click **Display**.

7. In the table, select an article (except a generic article) that you want to add to the display set and click **Copy**.

   In the *Content* screen of your project to create the display set, view the article that you added.

   > ⓘ Note
   >
   > In SAP Ariba Strategic Sourcing Suite, the structured article that you have created is known as Lot.

8. Click **Add** > **Lot**

   The *Add Lot* page appears.

   > ⓘ Note
   >
   > After receiving the retail master data that you sent from SAP Ariba Strategic Sourcing Suite to SAP Retail, you can view the LOT ID of the structured data in the Old material number (**OLD_MAT_NO**) field of the basic data in SAP Retail.

9. Enter the details of the lot.

   > ⓘ Note
   >
   > In the **Category** field, you must select the corresponding material group configured in SAP Retail. You must have also created a reference material for the material group in SAP Retail. The data is copied from this reference material to the new display set. If you have not created a material group and a corresponding reference material, the display set creation fails in SAP Retail.

   Perform the following substeps to select **Category** and key information in the **Lot Terms** field:

   a. Click the **Search** icon near **Category**. On the popup, search and select the material group and click **OK**.
   b. Under *Lot Terms*, in the dropdown list under *Ceiling/Initial* against *Item Category*, choose **Standard** and click **Done**.
   c. Under *Lot Terms*, in the dropdown list under *Ceiling/Initial* against *Plant*, choose a valid plant to which you want to extend the display set.

10. Click **Done**.

    In the *Content* page of your project to create the display set, view the newly added lot details.

11. Click the arrow near the name of your display set. In the submenu displayed, select **Add** > **Line Item**.
12. On the *Select Bucket Items* pop up, check the articles that you want to add to the display set and click **OK**.

    On the *Content* page of your project to create the display set, view the newly added articles.

13. For each item, specify the quantity and click **Next**.
14. Verify all the information that you have added and click **Publish**.

    The *Event Published* page appears.

15. Under *What would you like to do next?*, click **Monitor**.

    The page that lists the scenarios for your display set appears.

16. Under *Current Scenario*, click **Create** > **Manual Scenario**.

    The *Untitled Scenario* page appears.
17. In the *Award Proposal Details* tab, enter a name for the scenario and click **Master Data Creation**.

    The *Article Data Status* page appears.
18. Select the display set that you have created and click **Send Articles**.

Importing Master Data for More than One SAP Ariba Solution

Maintaining Parameters [page 171]

Maintaining Filters [page 173]

Maintaining Parameters

Maintaining Parameters to Import Master Data for More than One SAP Ariba Solution [page 171]

Maintaining Parameters to Import Master Data for More than One SAP Ariba Solution

Maintain the required parameters for more than one SAP Ariba solution.

Context

To maintain parameters for more than one SAP Ariba solution, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **General Settings** > **Maintain Parameters** > **Cross Application**.
4. Click **IMG-Activity** for **Cross Application**.

   The **Parameters - Cross Application Master Data** screen appears.
5. Maintain the following parameters:

Parameter name	Description	Supported values
CHANGEDOC_WAIT_TIMEINSEC	Applicable for SAP Ariba Procurement solutions and SAP Ariba Sourcing. Set this parameter to specify how long the object key will be locked by the Ariba Incremental Master Data Extracts program.	• **Variable Name**: CHANGEDOC_WAIT_TIMEINSEC • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions or SAP Ariba Sourcing in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions or SAP Ariba Sourcing in SAP ERP. For example, PREALM_2. • **Low**: Value in seconds.
LANGUAGE	Applicable for SAP Ariba Procurement solutions and SAP Ariba Sourcing. Set this parameter to display descriptions in languages other than English. Leave it blank to display the descriptions in English.	• **Variable Name**: LANGUAGE • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions or SAP Ariba Sourcing in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions or SAP Ariba Sourcing in SAP ERP. For example, PREALM_2. • **Low**: Example - DE
TEMP_DIRECTORY	Applicable for SAP Ariba Procurement solutions and SAP Ariba Sourcing. This is a mandatory field, but not for test run. Set this parameter to specify the temporary filepath in the application server to save CSV files. When you execute the master data, the CSV files are zipped and sent to SAP Ariba Procurement solutions from this location.	• **Variable Name**: TEMP_DIRECTORY • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions or SAP Ariba Sourcing in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions or SAP Ariba Sourcing in SAP ERP. For example, PREALM_2. • **Low**: Example - C:/users/Ariba

Maintaining Filters

Maintaining Filters to Import Master Data for More than One SAP Ariba Solution [page 173]

Maintaining Filters to Import Master Data for More than One SAP Ariba Solution

Configure a selection criteria to filter the master data to import for more than one SAP Ariba solution.

Context

You can filter using the following conditions:

- Equality and inclusion: where **Option** is `EQ` and **Sign** is `I`.
- Ranges and exclusion: where **Option** is `BT` and **Sign** is `E`.
- Patterns and comparisons: where **Option** is `CP` and **Sign** is `I` or `E`.

To maintain filters for more than one SAP Ariba solution, perform the following steps:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **General Settings** > **Maintain Filters** > **Cross Application** >.
4. Click **IMG-Activity** for **Cross Application**.

   The **Prefilters - Cross Application Master Data** screen appears.
5. Maintain the following filters:

Parameter name	Description	Supported values
COMPANY_CODE_EXPORT	Configure a selection criteria to filter the company codes to export.	• **Variable Name**: COMPANY_CODE_EXPORT • **Field Name**: Field name that designates the company code in the table `T001`. • **Type**: Enter S as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Sign**: Enter I. • **Option**: Enter EQ. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.
MATERIAL_GROUP_EXPORT	Configure a selection criteria to filter the material group to export.	• **Variable Name**: MATERIAL_GROUP_EXPORT • **Field Name**: Field name that designates the material group in the table `T023`. • **Type**: Enter S as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition** • : The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Sign**: Enter I. • **Option**: Enter EQ. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.

Parameter name	Description	Supported values
PAYMENT_TERMS	Configure a selection criteria to filter the payment terms.	• **Variable Name**: PAYMENT_TERMS • **Field Name**: Field name that designates the payment terms in the table `T052`. • **Type**: Enter S as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Sign**: Enter I. • **Option**: Enter EQ. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.
PLANT_EXPORT	Configure a selection criteria to filter the plant information to export.	• **Variable Name**: PLANT_EXPORT • **Field Name**: Field name that designates the plant information in the table `T001W`. • **Type**: Enter S as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Sign**: Enter I. • **Option**: Enter EQ. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.

Parameter name	Description	Supported values
PLANT_PURCHASE_EXPORT	Configure a selection criteria to filter the plant and purchase organization information to export.	• **Variable Name**: PLANT_PURCHASE_EXPORT • **Field Name**: Field name that designates the plant and purchase organization information in the table `T024W`. • **Type**: Enter S as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Sign**: Enter I. • **Option**: Enter EQ. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.
PURCHASE_GROUP_EXPORT	Configure a selection criteria to filter the purchase group information to export.	• **Variable Name**: PURCHASE_GROUP_EXPORT • **Field Name**: Field name that designates the purchase group information in the table `T024`. • **Type**: Enter S as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Sign**: Enter I. • **Option**: Enter EQ. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.

Parameter name	Description	Supported values
PURCHASE_ORG_EXPORT	Configure a selection criteria to filter the purchase organization information to export.	• **Variable Name**: PURCHASE_ORG_EXPORT • **Field Name**: Field name that designates the purchase organization information in the table `T024E`. • **Type**: Enter S as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Sign**: Enter I. • **Option**: Enter EQ. • **Low**: Enter the filter value for the criterion you set for field. • **High**: Blank if the option is not BT.

Configuring Supplier Data Integration with SAP Integration Suite, managed gateway

You can use SAP Integration Suite, managed gateway for supplier data integration with SAP Ariba sites that manage supplier data and integration in **SM Administration.**

The following solutions support this supplier data integration:

- SAP Ariba Supplier Lifecycle and Performance (bidirectional)
- SAP Ariba Supplier Information and Performance Management (new architecture) (bidirectional)
- SAP Ariba Supplier Risk (unidirectional replication of supplier data from the ERP system only)

Configuring Supplier Data Integration [page 177]

Configuring Supplier Data Integration

> **Note**
>
> Buyer administrators and template creators can integrate SAP Master Data Governance for Suppliers (MDG-S) and supported SAP Ariba solutions. For more information, refer to Integrating SAP MDG-S with SAP Ariba Supplier Lifecycle and Performance.

For supported versions of SAP ERP, SAP S/4HANA, and SAP Master Data Governance, see the section Prerequisites and Restrictions in SAP Integration Suite, Managed Gateway Overview Guide.

Configuring Supplier Data Integration in Your SAP Ariba Site [page 178]

Configuring SAP ERP [page 187]

Monitoring Errors in SAP ERP [page 204]

Integrating SAP Master Data Governance (MDG) with Ariba Supplier Lifecycle and Performance (SLP) without using Default Logical Port on SAP S/4HANA [page 205]

Related Information

Integrating SAP MDG-S with SAP Ariba Supplier Lifecycle and Performance
SAP Integration Suite, Managed Gateway Overview Guide
Integrating SAP Master Data Governance (MDG) with Ariba Supplier Lifecycle and Performance (SLP) without using Default Logical Port on SAP S/4HANA [page 205]

Configuring Supplier Data Integration in Your SAP Ariba Site

Setting Up Integration in Your SAP Ariba Site [page 178]

Setting Up Supplier Data Synchronization with SAP Ariba Supplier Management solutions to SAP ERP, SAP S/4HANA, or SAP Master Data Governance [page 181]

Defining a Replication Model for Supplier Data Replication in MDG [page 184]

Connecting ERP Vendor Fields to Supplier Management Questionnaires [page 186]

Setting Up Integration in Your SAP Ariba Site

Prerequisites

You must be a member of the **SM ERP Administrator** group to manage ERP integration settings in the **SM Administration** area.

Context

Integration configurations in **SM Administration** support either Basic authentication (using the P user ID and password) or certificate-based authentication for SAP Integration Suite, managed gateway integration.

For Basic authentication, SAP Integration Suite, managed gateway uses the P user ID and password to authenticate the connectivity between SAP Integration Suite, managed gateway and SAP Ariba. For more information about the

P user ID and password, see Enabling the SAP Integration Suite, Managed Gateway on SAP Ariba strategic sourcing solutions in SAP Integration Suite, Managed Gateway Installation Guide.

For certificate-based authentication, see Setting Up Mutual TLS Authentications for Supplier Data Integrations Using SAP Integration Suite, managed gateway [page 179].

Procedure

1. On the dashboard, Choose **Manage** > **SM Administration** .
2. Choose **ERP Integration**.
3. Expand the **Integration Type** area.
4. Choose *Managed Gateway for Spend&Network (Recommended)* in the **Select Integration Type** list.
5. Enter the system ID in the **ERP Business System ID** field. This value is the system ID of the external SAP ERP, SAP S/4HANA, or SAP MDG system with which you're integrating. SAP Ariba uses this system ID to send the supplier data to the corresponding ERP system. For example, ABCCLNT002 <logical system ID name>.

   > **Note**
   >
   > After an integration connection with external system is established, this field is automatically populated with the name the external system uses to identify your SAP Ariba site. In default configurations, this value is the SAP Ariba customer site name you set as the User ID in your integration method configuration, and you don't have to change that setting. However, if your SAP ERP, SAP S/4HANA, or SAP MDG-S configuration uses a custom naming scheme to identify external systems instead, you must specify the customer site name for your SAP Ariba site here. Ensure that the customer site name exactly matches the name SAP Ariba used to create your site. If you're unsure of your customer site name, contact an SAP Ariba representative.

6. Enter the system ID in the **SAP Ariba Business System ID** field. This value is the SAP Ariba site name. SAP Ariba uses this site name to send the supplier data to the receiving external system. For example, ABC-123 <customer site name>.
7. Choose **Save**.

Setting Up Mutual TLS Authentications for Supplier Data Integrations Using SAP Integration Suite, managed gateway

If you have a supplier data integration using SAP Integration Suite, managed gateway, you can use mutual TLS integration as an alternative to shared secret authentication.

Prerequisites

To create and manage mutual TLS authentication certificate configurations in your SAP Ariba application, you must be a member of the **Integration Manager** group.

Context

Procedure

1. In the SAP Integration Suite, managed gateway portal, download the keystore certificate from the **Resources** page
2. In your SAP Ariba application, follow the steps for configuring master data synchronization from the integrated ERP system, pasting in the downloaded keystore certificate.
3. In your SAP Ariba application, follow the steps for setting up a mutual TLS authentication certification, choosing the **CIG** value for the appropriate data center and environment as the application name and adding the client certificate.

Next Steps

When you update a certificate in the supplier management application, update the certificate in SAP Integration Suite, managed gateway within 24 hours. The supplier management application caches the previous certificate for 24 hours to provide a 1-day grace period for updates.

Configuring Mutual TLS for SAP Integration Suite

Configure mutual TLS authentication for inbound SOAP web service calls by importing a client certificate into the SAP Integration Suite keystore and configuring the Integration Flow (iFlow) to use the certificate for authentication.

Prerequisites

- Mutual authentication works with client certificates issued by any valid certificate authority (CA).
- Ensure that the valid client certificates are stored in the server's truststore.
- Ensure that the **SI-4219: Mutual TLS Authentication for Inbound WS calls** feature is enabled to configure mutual authentication when establishing a TLS connection for inbound SOAP web service channel calls.

Procedure

1. Navigate to **Monitor** > **Integrations and APIs**.
2. Open **Keystore**.

3. From the **Add** drop-down, select **Key Pair**.
4. In the **Alias** field, enter an alias for the key pair.
5. In the **File** field, upload the **.pfx** certificate file.
6. In the **Password** field, enter the password associated with the private key.
7. Click **Add**.
8. Navigate to **Design** > **Integrations and APIs** and open the **Integration Packages** that contain your iFlow.
9. In the iFlow, specify the SOAP Request endpoint URL for the certs1.ariba.com domain.

   For example:

   ```
   https//certs1.ariba.com/Buyer/soap/AMS-Sandbox-T/RequisitionImportPull
   ```

10. In the **Authentication** drop-down, select **Client Certificate**.
11. In the **Private Key Alias** field, enter the alias of the key pair that you imported into the keystore.
12. Save and deploy the iFlow.

Setting Up Supplier Data Synchronization with SAP Ariba Supplier Management solutions to SAP ERP, SAP S/4HANA, or SAP Master Data Governance

Setting Up Initial Supplier Data Synchronization to the ERP System [page 181]

Controlling the Ongoing Synchronization of Data from Suppliers in Mass Registration Waves [page 183]

Setting Up Initial Supplier Data Synchronization to the ERP System

You set up initial supplier data synchronization to the integrated ERP system by choosing manual or automatic synchronization and specifying the supplier status at which initial synchronization occurs.

Prerequisites

To set up initial supplier synchronization, you must be a member of the **SM ERP Administrator**.

To either automatically or manually synchronize suppliers based on qualification, your site must include one of the following configurations:

- At least one question in the external qualification questionnaire that is mapped to a vendor database field.
- A `vendor.supplierGenericCustomField.$(matrix.category)` default of `$(qualification.status)` set in `default_properties.csv`.

Initial synchronization settings are only applicable in SAP Ariba sites where bidirectional integration is supported.

Context

Automatic synchronization occurs automatically when the supplier reaches the specified status and is designed to synchronize all suppliers of that status in SAP Ariba Supplier Management solutions with SAP ERP, SAP S/4HANA, or SAP MDG-S.

With manual synchronization, when the supplier reaches the specified status, an ERP synchronization link appears in the **ERP data** detail area of the supplier's profile. A category manager or supplier manager clicks the link when they're ready to transact with the supplier. Otherwise, suppliers of that status are not synchronized with the integrated system.

Once the initial synchronization of new supplier data with the SAP ERP or SAP S/4HANA occurs, updates are automatically passed between SAP Ariba Supplier Management solutions and SAP ERP or SAP S/4HANA using SAP Integration Suite, managed gateway. If your SAP ERP or SAP S/4HANA system uses MDG (master data governance) workflows for approving changes to vendor records, you can require approval in MDG for changes to supplier profiles in SAP Ariba Supplier Management solutions..

> **Note**
>
> - Integration errors interrupt automatic synchronization. If there's an integration error during either initial automatic synchronization or synchronization of updates, after correcting the error, a category or supplier manager must manually synchronize the supplier to re-establish the connection.

Procedure

1. On the dashboard, choose **Manage** > **SM Administration** >.
2. Choose **ERP integration**.
3. In the **Initial supplier synchronization**, perform one of the following actions:
   - To automatically synchronize new suppliers when they reach a specific registration or qualification status, choose **Automatic synchronization**, then choose one of the following statuses:

Status	Description
When the supplier record is created in SM (Not invited).	The supplier request has been approved and the supplier is created in the SAP Ariba database, but the supplier hasn't been invited to register yet.
When a supplier is registered.	The supplier has a registration status of **Registered**.
When a supplier is qualified.	The supplier has an overall qualification status of **Qualified**.

   - To enable manual synchronization of new suppliers when they reach a specific registration or qualification status, choose **Manual synchronization**, then choose one of the following statuses:

Status	Description
Not Invited (initial supplier creation)	The supplier request has been approved and the supplier is created in the SAP Ariba database, but the supplier hasn't been invited to register yet.
Invited	The supplier has been invited to register or an internal registration has been started.
In Registration	Registration questionnaire submission is in progress.
Pending Approval	The approval flow for the registration has started and there's one final approval pending.
Registered	The supplier has a registration status of **Registered**.
Qualified	The supplier has an overall qualification status of **Qualified**.

4. Choose **Save**.

Related Information

Default_properties.csv

Controlling the Ongoing Synchronization of Data from Suppliers in Mass Registration Waves

You can specify when the registration data generated by mass registration waves is synchronized to an integrated system so that your organization can coordinate the processing of large numbers of registrations.

Prerequisites

You must be a member of the **SM ERP Administrator** group to set up supplier synchronization.

These settings are only applicable in SAP Ariba sites that include supplier registration projects.

Context

Mass registration invitations allow you to issue automatic registration invitations to large numbers of suppliers to bring them on board quickly. These mass registration invitations are organized into waves (groups) so that

your company can coordinate its supplier or category management resources to process a large number of registrations. To assist this coordination, you can specify when the registration data generated by a mass registration wave is synchronized to SAP ERP, SAP S/4HANA, or SAP MDG-S using an ongoing synchronization setting.

By default, once a supplier is initially synchronized with the integrated system, all updates, including registration data, are synchronized automatically as they occur and (if applicable) are approved in SAP Ariba Supplier Lifecycle and Performance. If you use the ongoing synchronization setting, the moment you apply the setting, SAP Ariba Supplier Lifecycle and Performance stops synchronizing suppliers in the specified wave to the integrated system on an ongoing basis. Instead, the next ongoing synchronization occurs on the date you specify. After that date, automatic ongoing synchronization starts again for the suppliers in the wave.

Procedure

1. On the dashboard, click **Manage** > **SM Administration**.
2. Click **ERP integration**.
3. In the **Ongoing supplier synchronization** area, choose the mass invitation wave for which you want to control synchronization from the dropdown menu.
4. Choose the date on which you want ongoing synchronization to start again for suppliers in the wave.
5. Click **Save**.

Defining a Replication Model for Supplier Data Replication in MDG

Procedure

1. **Define Data Replication Framework (DRF) Settings for Business Partner**
   1. Run transaction `DRFIMG` to open the *Data Replication-specific Customizing*.
   2. Open the Customizing activity **Define Technical Settings for Business Systems** under **Data Replication** > **Define Custom Settings for Data Replication** > **Define Technical Settings**.
   3. In the **Change View Define Bus. Systems, BOs**, choose **New Entries**.
   4. In the **Define Bus. Systems, BOs** table, enter the details for the new business system.

      > **Note**
      >
      > Make sure you enter the SAP Ariba site name that is maintained in SAP Ariba SLP under **Manage** > **SM Administration** > **ERP Integration** > **Integration Type** > **SAP Ariba Business System ID**.

   5. Save your entries, and leave this view open to continue with the next steps.
2. **Define SAP Ariba SLP Business System and Define Storage Settings for Data Replication**
   1. Select the row that contains the business system you just added, and double-click on **Define Bus. Systems, BOs** in the **Dialog Structure** on the left.

2. Choose **New Entries** and add **BO Type** `147` using the input help.
3. Select the row that contains the **BO Type** `147`, and double-click on **Define Bus. Systems, BOs, Communication Channel** in the **Dialog Structure** on the left.
4. Choose **New Entries**.
5. In the **Define Bus. Systems, BOs, Communication Channel** table, make the following entries, and save your settings:

Communication Channel	Key Harmonization	Update Key Mapping	Storage	Sup. Time Dependency	Create Process Template	Change Process Template	Reliable
Replication via Services	Key Mapping	*Deselect checkbox*	Staging Area	Not Defined	*Select a Consolidation Process Template.* *You can add templates either by activating a BC set, or by creating your own templates manually.*	*Do not use Consolidation Process Template*	*Select checkbox*

   With these settings, an automatic **consolidation process** is triggered when a new data record is **created**, while a **change request** process is triggered in central governance when a record is **changed**.

6. Save your entry.
7. Navigate back to the *Data Replication-specific Customizing*, or run transaction `DRFIMG` to open it.
8. Open the Customizing activity **Define Replication Models** under **Data Replication** > **Define Custom Settings for Data Replication**.
9. In the **Change View Define Replication Model**, choose **New Entries**.
10. In the **Define Replication Model** table, enter the details for the new replication model.
    For example, enter `SLP_BP` as the **Replication Model**, and `Business Partner SLP` as the **Description**.
    You can enter a number of **Log Days** to specify the log expiry time, for example, `50`.
11. Save your entries.
12. In the **Define Replication Model** table, select the row that contains the replication model you just created, and double-click on **Assign Outbound Implementation** in the **Dialog Structure** on the left.
13. Choose **New Entries** to define an **Outbound Implementation**, and enter the following values using the input help:
    - **Outbound Implementation**: 986_3 Outbound Impl. for BP/REL via Services
    - **Sequence**: 1
    - **Communication Channel**: Replication via Services
    - **Filter time**: Filter After Change Analysis
14. Select the row added and double-click on **Assign Target Systems for Repl. Model /Outb.Impl.** in the **Dialog Structure**.

15. In the **Assign Target Systems for Repl. Model/Outb.Impl.** table, choose **New Entries**, and use the input help to add the name of the business system you entered in step **1d** above.
16. Select the row that contains the business system you added, and choose **Assign Outbound Parameter** in the **Dialog Structure**. Choose **New Entry**, and enter the following values:
    - **Outb. Parameter**: `PACK_SIZE_BULK`
    - **Outb. Parameter Value**: 20 (example value; enter a value to meet your requirements)
17. Save your entries.
18. Return to the **Define Replication Model** view. Optionally, you can also add an expiration time for the log.
19. Save your replication model.
20. Select the newly created replication model, and choose **Activate** to activate it.

3. **Define Filter Criteria for Business Objects**
    1. Define Object Filters
        1. Run transaction `DRFF` to open the **Define Filter Criteria** screen. In the **Query by Replication Model - All Replication Models** table, select the row that contains the replication model you created in step **2j** (for example, `Business Partner SLP`), and select **Change**. In the **Filter Criteria to Include Business Objects** section, add the combination of roles and vendor account groups that are relevant for the replication of your Business Partner records to the SLP system.
        For example, add **BP Role** *is* **`FLVN00`**, and **Vendor Account Grp** *is* **`KRED`**.

Connecting ERP Vendor Fields to Supplier Management Questionnaires

SAP Ariba Supplier Management solutions use questionnaires to gather information about suppliers. You can connect the answers to those questions directly to fields in the SAP Ariba unified vendor database model through field mapping. The answers are then replicated to the corresponding fields in the integrated SAP system. Likewise, data replicated from the integrated SAP system is stored in corresponding fields in the SAP Ariba unified vendor model, and populated in mapped fields in SAP Ariba Supplier Management solutions questionnaires.

To map a question to a vendor database field, a template creator adds questions to a supplier form, questionnaire, or internal survey in one of the supplier management project templates and adds the vendor field to the **Supplier Field Mapping** field on the **Add Question** page. There are several field mapping values that are used only internally in SAP Ariba supplier management projects, but the majority of the values correspond directly to vendor field names in the SAP business partner model.

For information on how to map questionnaire answers to vendor database fields in supplier management project following the defined best practices, see Question Field Mapping in Supplier Management Setup and Administration Guide.

Related Information

Supplier Management Setup and Administration Guide

Configuring SAP ERP

Installing the SSL Certificate [page 187]

Configuring the Client Certificate for Certificate-Based Authentication [page 188]

Configuring SOAMANAGER to Support Key Mapping Between Multiple Vendor IDs [page 189]

Configuring SOAMANAGER to Support Standalone MDG [page 191]

Customizing the Fields for SAP Ariba Supplier Management solutions Without a Middleware [page 192]

Configuring SAP Process Integration [page 193]

Installing the SSL Certificate

Context

Install the SSL certificate to set up HTTPS connectivity using the proxies for SAP Integration Suite, managed gateway.

Procedure

1. Open your browser in Internet Explorer or Google Chrome and download the client certificate for the URL that you have configured in SOAMANAGER.
2. Click the Secure Lock indicator on the address bar and then click the **Connection** tab.
3. Click the **Certificate information** link to download the certificates for SAP Integration Suite, managed gateway. The Certificate dialog box appears.
4. Click the Details tab and then click **Copy to File**. The Certificate Export Wizard appears.
5. Follow the steps in the Certificate Export Wizard. Ensure that you select the **DER encoded binary X.509 (.CER)** option. This option is selected by default.
6. Specify the path where you want to store the certificates. Click **Finish**.
7. On your ERP system, go to STRUST and click **SSL Client SSL Client(Anonymous).**
8. Click the **Import Certificates** button and then choose the path where you exported the certificates.
9. Click **Allow** and then **Continue** to download the certificates.
10. Click **Add to Certificate List**.

    You will see a message that you have added the certificates successfully.

    > ### Note
    >
    > Ensure that you save the newly-added certificates. This notifies the ICM about the new certificates you have just imported.

11. After you have saved the entries in the STRUST, go to the transaction code `SMICM`.

12. On the **Administration** menu, click **ICM** > **Exit Soft** and then **Global**.
13. In the Internet Communication Manager dialog box, Do you really want to restart all ICM processes in the system?, click **Yes**.
14. On the **Administration** menu, click **ICM** > **Exit Hard** and then **Global**.
15. In the Internet Communication Manager dialog box, Do you really want to restart all ICM processes in the system?, click **Yes**

Configuring the Client Certificate for Certificate-Based Authentication

Context

Configure the certificates for SAP Integration Suite, managed gateway to authenticate the connections from SAP ERP to SAP Integration Suite, managed gateway. SAP Integration Suite, managed gateway supports the certificate-based authentication for sending outbound transactions only.

Procedure

1. Ensure that you have the client certificate procured from a trusted certificate authority accepted by SAP Ariba. For the list of trusted certificate authorities accepted by SAP Ariba, please refer to the SAP Note: 3179821.
2. Import the private key of the certificate into the SAP Business Site system by using the **Trust Manager** (transaction STRUST). You can only import certificates in the Personal Security Environment (PSE) format. Certificates in other formats must be converted to the PSE format. Use the command line tool **SAPGENPSE** to do the conversion. Install the **SAPGENPSE** tool with the SAP Cryptographic Library installation package.

   For example, to convert the P12 (Public-Key Cryptography Standards) format to PSE format, enter the following command line:

   ```
   sapgenpse import_p12 -v -r <root certificate> -p <Target PSE file><Source File>.
   ```

   1. Create a new Client Identity in the **Trust Manager**. Go to **Environment** > **SSL Client Identities**.
      - Enter **`ARIBA`** as the identity name and **`SAP Business Network Client`** as the description.
      - Save the entries.
   2. Import the private key of the certificate into the SAP Business Site system by using **Trust Manager** (transaction **STRUST**).
      - Select the newly-created ARIBA SSL Client ID and choose **PSE** > **Import** to import the PSE file.
      - Enter the password for the certificate if required.
      - To save, click **PSE** > **Save as** > **SSL Client**.
      - Enter **`ARIBA`** as the SSL Client.
      - Navigate to the **Own Certificate** group box on the **Trust Manager** screen, and double-click the certificate to add it to the certificate list. You can now see the newly-added certificate in the **Certificate List** of Trust Manager.
3. Import the root certificate into the SAP Business Site system by using Trust Manager as follows:

   1. Double-click the SSL Client Identity **ARIBA** that you have created.

2. Navigate to the **Certificate** group box and choose **Import certificate**. Click **Add to Certificate List** to add the imported certificate to the certificate list.

4. Use transaction `SMICM` to activate the changes and restart the Internet Communication Manager (ICM). Click **Administration** > **ICM** > **Restart** > **Yes**. For more information, go to the SAP documentation portal and search for the phrase **`Using the ICM Monitor`**.

Configuring SOAMANAGER to Support Key Mapping Between Multiple Vendor IDs

Context

Configure the `SOAMANAGER` to set up the connectivity to integrate SAP Ariba Supplier Management solutions with SAP ERP or SAP S/4HANA using SAP Integration Suite, managed gateway.

To set up the `SOAMANAGER` configuration for outbound services, repeat steps for all the proxies to send and receive supplier information.

Prerequisites

For information about supported SAP ERP and SAP S/4HANA systems, see Prerequisites and Restrictions in SAP Integration Suite, Managed Gateway Overview Guide.

Procedure

1. Go to transaction code **SOAMANAGER**.
2. In the Service Administration tab, click **Web Service Configuration**.
3. Specify the following **Search Criteria**:
   - In the **Search By** pull-down list, select `Consumer Proxy`.
   - Select **Contains** from the options.
   - Enter the first few characters of the proxy name that you want to search for and click **Search**.

   The list of proxies that match the specified criteria appears.
4. From the list of proxies, select the following outbound transaction:
   - `CO_KEY_MAP_RPLCTRQ` to send the key mapping information to identify the different vendor ID values with the corresponding ERP vendor ID and business part ID on the MDG system and SAP Ariba Supplier Management solutions.
5. From the **Configuration** tab, click **Create** and select **Manual Configuration**.
6. Under **General Configuration**, specify the following:
   - **Logical Port** name. For example, SupplierCIG.
   - **Description**
   - Check the **Logical Port is Default** field.
7. Click **Next**.

The **New Manual Configuration of Logical Port for Consumer Proxy <proxy name>** page appears. Perform the following steps for outbound transaction.

8. From the **Authentication Settings** section, select based on the mode of authentication.
   - To use the user name and password-based authentication, click the **User ID/Password**.
     - In the **User Name** text box, enter the P user ID that you activated while registering SAP Ariba Supplier Management solutions with SAP Integration Suite, managed gateway.
     - Enter the password for the P user ID. The password you specify here should match the password you entered while registering SAP Ariba Supplier Management solutions with SAP Integration Suite, managed gateway.
     - (Not required if you have already configured the certificate while configuring the SAP Ariba Supplier Management solutions) To use client-based authentication, click **X.509 SSL Client Certificate**.
       - In the **SSL Client PSE of transaction STRUST** field, specify the path to the SSL client certificate.
9. Click **Next**.

   The **Transport Bindings** page appears.
10. In the **Transport Bindings** page, specify the following:
    - **URL Access Path**:
      - If you are using a test instance, specify `/cxf/receiveERPMD`.
      - If you are using a production instance, specify `/cxf/receiveERPMD`.
    - **Computer Name of Access URL**:
      - If you are using the Europe data center:
        - Enter `testacig.ariba.com`
        - Enter `acig.ariba.com`, if you are using a production instance.
    - **Port Number of Access URL**: 443
    - **URL Protocol Information**: HTTPS
11. Click **Next**.
    The **SOAP Protocol** page appears.
12. In the **Reliable Messaging (Asynchr.)** section, specify the following:, if you are using a test instance.
    - **RM Protocol** to SAP `RM`.

      > **Note**
      >
      > SAP Ariba Supplier Management solutions integration with SAP ERP or SAP S/4HANA does not support `WS-RM`.
    - In the **Message ID (Synchronous)** section, choose `, if you areSuppress ID Transfer` in the **Message ID Protocol** list.
13. Click **Next**.
14. Click **Finish** to save the changes. Activate the changes.
15. Perform the following steps to configure the proxy for the inbound transaction:
16. Perform Step 3 to search for proxy `KEYMAPPINGBULKREPLICATECONFIRM` . The **Details of Consumer Proxy:<proxy name>** page for the selected proxy appears.
17. From the list of proxies, select the following inbound transaction:
    - `KEYMAPPINGBULKREPLICATECONFIRM` for the confirmation sent from SAP Ariba Supplier Management solutions to SAP ERP or SAP S/4HANA for the key mapping information received.

The **Details of Consumer Proxy:<proxy name>** page for the selected proxy appears. Ensure that you repeat the following steps with each of the proxy name and URL access path.

18. Click **Create Service**.
19. In the Service Information section, enter the following:
    - **Service Name**:
      - For `KEYMAPPINGBULKREPLICATECONFIRM`, enter **`keymappingbulkreplicateconfirm`**.
20. Click **Next**. The Provider Security page appears.
21. In the Transport Level Security section, click **SSL (https)**.
22. In the Message Level Security section, click **None**.
23. In the Transport Channel Authentication, choose **User ID/Password**.
24. Click **Next**. The SOAP Protocol page appears.
25. Enter the following values for the proxy `KEYMAPPINGBULKREPLICATECONFIRM`:
    - **Alternative Access URL**: `/sap/bc/srt/xip/arba/keymappingbulkreplicateconfirmation/<SAP ERP or SAP S/4HANA system clientID>`
    - **Calculated Access URL**: `/sap/bc/srt/xip/sap/keymappingbulkreplicateconfirm/<SAP ERP or SAP S/4HANA system clientID>/keymappingbulkreplicateconfirm/keymappingbulkreplicateconfirm`
    - **Calculated Protocol**: `HTTPS`
26. Click **Next**.
27. Click **Finish** to save and activate the changes.

> **Note**
>
> When you do a Web Service Ping, you might receive a “Web service ping failed (RC=500).” This is an expected behavior and does not indicate any error in the SOAMANAGER configuration.

Configuring SOAMANAGER to Support Standalone MDG

Context

If you are a customer using a standalone instance of SAP Master Data Governance (MDG) and SAP Integration Suite, managed gateway, you need to follow the procedure in the Integrating SAP MDG-S with SAP Ariba Supplier Lifecycle and Performance guide for supplier data integration with SAP Ariba Supplier Management solutions.

Customizing the Fields for SAP Ariba Supplier Management solutions Without a Middleware

Context

SAP Ariba Supplier Management solutions integration with SAP ERP, SAP S/4HANA, or SAP MDG supports extension of the business partner data structure to enable you to use custom fields to address your specific requirements. These extensions are only supported in solutions where bidirectional integration is supported.

> **Note**
>
> As a best practice, SAP Ariba doesn't recommend usage of custom generic fields as it requires additional customization in SAP ERP, SAP S/4HANA, or SAP MDG and custom implementation on a case-to-case project basis.

If you're a customer that doesn't use SAP Process Integration, SAP Process Orchestration, or a System Landscape Directory, perform the following steps to maintain the data types enhancements to customize the fields for SAP Ariba Supplier Management solutions.

Procedure

1. Run the transaction code, `SPXNGENAPPL`. Maintain the namespace for the Master Data Repository.
2. Create the Namespace *`http://ariba.com/xi/SupplierManagement`* and select *`Backend Metadata Repository`* as the **Generation Source**.
3. Run the transaction code, `SPROXY` to create the enhancement for SAP Ariba Supplier Management solutions.
4. Open the following service interfaces for the namespace *`http://sap.com/xi/SAP_BS_FND/MDG/Global2`* :
   - `BusinessPartnerSUITEBulkReplicateRequest_In`
   - `BusinessPartnerSUITEBulkReplicateRequest_Out`
5. Go to tab, **External view** in the SPROXY page.
6. Choose the following segments to be enhanced. Double-click each of the following ABAP Name to enhance the segment:

Segment Path and Name	ABAP Name
BusinessPartnerSUITEReplicateRequestMessage > **Business Partner**	MDG_BP_BPSUI-TERPLCT_REQ_BP
BusinessPartnerSUITEReplicateRequestMessage > **Business Partner** > **Supplier**	MDG_BP_BPSUI-TERPLCT_REQ_SUPLR
BusinessPartnerSUITEReplicateRequestMessage > **Business Partner** > **BankDetails**	MDG_BP_BPSUI-TERPLCT_REQ_BK_DET
BusinessPartnerSUITEReplicateRequestMessage > **Business Partner** > **Supplier** > **Accounting Information**	MDG_BP_BPSUI-TERPLRQ_ACCTG_INFO

The DDIC structure of the proxy structure appears.

7. Click the **Proxy Editor**. The Proxy screen appears.
8. Click **Create Enhancement**. The wizard, Enterprise Services: Create Data Type Enhancement appears.
9. Enter a name and description for the enhancement. For example, SLPBPExt.
10. Change the namespace from *http://sap.com/xi/SAP_BS_FND/MDG/Global2* to *http://ariba.com/xi/SupplierManagement*.
11. Click **Cont**. The Transport page appears.
12. Enter a package name for your customization in the **Package** field.
13. Enter a prefix value starting with Z* or Y* in the **Prefix** field.
14. Click **Cont**.
15. Click **Complete** to finish the wizard.
16. Choose **External view** in Data Type Enhancement screen.
17. Right-click on the name you newly created for the enhancement in Step 9.
18. Click **Add Element** to add an element with the name *GenericCustomField*.
19. Edit the value in **Max. Occurs** for the GenericCustomField from *1* to *Unbounded*.
20. Right-click on the value, *GenericCustomField* and choose **Select Existing global type** available under **Set Global Type Reference**. The Restrict Value Range window appears.
21. Choose the **ABAP Type**, *TABL* and the **ABAP Name** *ARBCIG_GENERIC_CUSTOM_FIELD*.
22. Click **OK**.
23. Choose the field, *ARBCIG_GENERIC_CUSTOM_FIELD* from the list.
24. Right-click on the name you newly created for the enhancement in Step 9.
25. Click **Add Attribute** to add an element with the name *genericCustomFieldListCompleteTransmissionIndicator*.
26. Right-click on the value, *genericCustomFieldListCompleteTransmissionIndicator* and choose **Select Existing global type** available under **Set Global Type Reference**. The Restrict Value Range window appears.
27. Choose the **ABAP Type**, *DTEL* and the **ABAP Name**, *ARBCIG_OPTIONAL_INDICAT*.
28. Click **OK**. The field, *ARBCIG_OPTIONAL_INDICAT* appears in the list.
29. Save the changes.
30. Activate the data type enhancement.
31. Repeat Step 5 to 30 for each of the following remaining segments:
    - *MDG_BP_BPSUITERPLCT_REQ_SUPLR (Supplier)*
    - *MDG_BP_BPSUITERPLCT_REQ_BK_DET (Bank)*
    - *MDG_BP_BPSUITERPLRQ_ACCTG_INFO (Accounting)*

Configuring SAP Process Integration

Maintaining Data Types Enhancements to Customize Fields for SAP Ariba Supplier Management solutions [page 194]

Data Type Enhancements to Customize Fields for SAP Ariba Supplier Management solutions [page 203]

Maintaining Data Types Enhancements to Customize Fields for SAP Ariba Supplier Management solutions

Context

SAP Ariba Supplier Management solutions integration with SAP ERP or SAP S/4HANA supports extension of the business partner data structure to enable you to use custom fields to address your specific requirements. Maintain the following data types. Before you create the data types, create the software component version (SWCV) for storing versions of data object definitions.

> ⓘ Note
>
> As a best practice, SAP Ariba doesn't recommend usage of custom generic fields as it requires additional customization in SAP ERP, SAP S/4HANA, or SAP MDG and custom implementation on a case-to-case project basis.

Procedure

1. Download the software component `ARBCI2 100` if you or `ARBCI2 10S`. For more information, see Downloading and Installing the Add-On from SAP for Me in SAP Integration Suite, Managed Gateway Installation Guide.
2. Create a custom software component version (SWCV) with a name in your System Landscape Directory (SLD).

   For information about supported versions of SAP ERP, SAP S/4HANA or SAP MDG for SAP Ariba Supplier Management solutions, see Prerequisites and Restrictions in SAP Integration Suite, Managed Gateway Overview Guide.
3. Define a dependent software component for `ARBCI2` and `SAP BS FOUNDATION`.
   - If you are using SAP ERP, choose `SAP BS FOUNDATION`.
   - If you are using SAP S/4HANA, choose one of the following:
     - Choose `S4CORE` for S/4HANA versions up to 1610.
     - Choose `S4FND` for S/4HANA version 1709 and higher.
4. Sign in to the **Integration Builder** and go to the **Enterprise Services Repository**.
5. Create the custom namespace in the newly created software component version, instead of the standard namespace `http://ariba.com/xi/SupplierManagement`.
6. Go to **Tools** > **Transfer Design Objects.** >.
7. Select the Source `ARBCI2 100` if you use SAP ERP or `ARBCI2 10S` if you use SAP S/4HANA. Then choose the target SWCV of your custom content and continue with the wizard.
8. In the **Select Objects** step, choose **Individual Objects** from the object drop-down list.
9. Choose **Add Single Object** and select **Data Type**.
10. Select the following objects:
    - `GenericCustomField`
    - `GenericCustomFieldDescription`

- `GenericCustomFieldMappingName`
- `GenericCustomFieldName`
- `GenericCustomFieldRestrictions`
- `GenericCustomFieldTitle`
- `GenericCustomFieldType`
- `InboundServiceName`
- `Inclusive`
- `LanguageCode`
- `NumberValue`
- `OPTIONAL_Indicator`
- `Pattern`

11. Create the following data type enhancements and their names to each of the corresponding data types:
    1. **Name**: `AribaAccountingInformationExtension`. Use to customize accounting information.
        - **Namespace**: Use the custom namespace created in step 5 [page 194].
        - **Software Component Version**: If you use SAP ERP, enter `ARBCI2 100` or enter `ARBCI2 10S` if you use SAP S/4HANA. Use the custom SWCV created in step 2 [page 194].
        - **Data Type Enhancement**: `BPSUITERplctReqAcctgInfo`
        - **Namespace**: `http://sap.com/xi/SAP_BS_FND/MDG/Global2`
        - **XML Namespace**: Use the custom namespace created in step 5 [page 194].
        Maintain the following values:

Name	Category	Type	Occurrence	Details
AribaAccountingInformationExtension	Data Type Enhancement			
genericCustomFieldListCompleteTransmissionIndicator	Attribute	OPTIONAL_Indicator	optional	
GenericCustomField	Element	GenericCustomField	0.unbounded	
name	Attribute	GenericCustomFieldName	optional	minLength="1", maxLength="30",pattern="[zZ]\w="
type	Attribute	GenericCustomFieldType	optional	enumeration=Code,Date,Decimal,Indicator,Text"
title	Attribute	GenericCustomFieldTitle	optional	maxLength="40"
description	Attribute	GenericCustomFieldDescription	optional	maxLength="100"
languageCode	Attribute	LanguageCode	optional	minLength="2",maxLength="9"

Name	Category	Type	Occurrence	Details
table	Attribute	GenericCustomFieldMappingName-	optional	maxLength="255"
field	Attribute	GenericCustomFieldMappingName-	optional	maxLength="255"
checkTable	Attribute	GenericCustomFieldMappingName-	optional	maxLength="255"
receiverTable	Attribute	GenericCustomFieldMappingName-	optional	maxLength="255"
receiverField	Attribute	GenericCustomFieldMappingName-	optional	maxLength="255"
receiverCheckTable	Attribute	GenericCustomFieldMappingName-	optional	maxLength="255"
maxLength	Attribute	NumberValue	optional	minInclusive="0",maxInclusive="999999999"
minLength	Attribute	NumberValue	optional	minInclusive="0",maxInclusive="999999999"
pattern	Attribute	Pattern	optional	
totalDigits	Attribute	NumberValue	optional	minInclusive="0",maxInclusive="999999999"
fractionDigits	Attribute	NumberValue	optional	minInclusive="0",maxInclusive="999999999"
maxInclusive	Attribute	Inclusive	optional	
minInclusive	Attribute	Inclusive	optional	
displayRestrictions	Attribute	GenericCustomFieldRestrictions	optional	
editRestrictions	Attribute	GenericCustomFieldRestrictions	optional	

2. **Name**: `AribaBankDetailsExtension`. Use to customize bank details.
   - **Namespace**: Use the custom namespace created in step 5 [page 194].
   - **Software Component Version**: If you use SAP ERP, enter `ARBCI2 100` or enter `ARBCI2 10S` if you use SAP S/4HANA. Use the custom SWCV created in step 2 [page 194].
   - **Data Type Enhancement**: `BPSUITERplctReqBkDets`

- **Namespace**: `http://sap.com/xi/SAP_BS_FND/MDG/Global2`
- **XML Namespace**: Use the custom namespace created in step 5 [page 194].
  Maintain the following values:

Name	Category	Type	Occurrence	Details
AribaBankDetailsExtension	Data Type Enhancement			
genericCustomFieldListCompleteTransmissionIndicator	Attribute	OPTIONAL_Indicator	optional	
GenericCustomField	Element	GenericCustomField	0.unbounded	
name	Attribute	GenericCustomFieldName	optional	minLength="1", maxLength="30",pattern="[zZ]\w="
type	Attribute	GenericCustomFieldType	optional	enumeration=Code,Date,Decimal,Indicator,Text"
title	Attribute	GenericCustomFieldTitle	optional	maxLength="40"
description	Attribute	GenericCustomFieldDescription	optional	maxLength="100"
languageCode	Attribute	LanguageCode	optional	minLength="2",maxLength="9"
table	Attribute	GenericCustomFieldMappingName-	optional	maxLength="255"
field	Attribute	GenericCustomFieldMappingName-	optional	maxLength="255"
checkTable	Attribute	GenericCustomFieldMappingName-	optional	maxLength="255"
receiverTable	Attribute	GenericCustomFieldMappingName-	optional	maxLength="255"
receiverField	Attribute	GenericCustomFieldMappingName-	optional	maxLength="255"
receiverCheckTable	Attribute	GenericCustomFieldMappingName-	optional	maxLength="255"
maxLength	Attribute	NumberValue	optional	minInclusive="0",maxInclusive="999999999"

Name	Category	Type	Occurrence	Details
minLength	Attribute	NumberValue	optional	minInclusive="0",maxInclusive="999999999"
pattern	Attribute	Pattern	optional	
totalDigits	Attribute	NumberValue	optional	minInclusive="0",maxInclusive="999999999"
fractionDigits	Attribute	NumberValue	optional	minInclusive="0",maxInclusive="999999999"
maxInclusive	Attribute	Inclusive	optional	
minInclusive	Attribute	Inclusive	optional	
displayRestrictions	Attribute	GenericCustomFieldRestrictions	optional	
editRestrictions	Attribute	GenericCustomFieldRestrictions	optional	

3. **Name**: `AribaBusinessPartnerExtension`. Use to customize business partner information.
   - **Namespace**: Use the custom namespace created in step 5 [page 194].
   - **Software Component Version**: If you use SAP ERP, enter `ARBCI2 100` or enter `ARBCI2 10S` if you use SAP S/4HANA. Use the custom SWCV created in step 2 [page 194].
   - **Data Type Enhancement**: `BPSUITERplctReqBP`
   - **Namespace**: `http://sap.com/xi/SAP_BS_FND/MDG/Global2`
   - **XML Namespace**: Use the custom namespace created in step 5 [page 194].

   Maintain the following values:

Name	Category	Type	Occurrence	Details
AribaBusinessPartnerExtension	Data Type Enhancement			
genericCustomFieldListCompleteTransmissionIndicator	Attribute	OPTIONAL_Indicator	optional	
GenericCustomField	Element	GenericCustomField	0.unbounded	
name	Attribute	GenericCustomFieldName	optional	minLength="1", maxLength="30",pattern="[zZ]\w="

Name	Category	Type	Occurrence	Details
type	Attribute	GenericCustomFieldType	optional	enumeration=Code,Date,Decimal,Indicator,Text"
title	Attribute	GenericCustomFieldTitle	optional	maxLength="40"
description	Attribute	GenericCustomFieldDescription	optional	maxLength="100"
languageCode	Attribute	LanguageCode	optional	minLength="2",maxLength="9"
table	Attribute	GenericCustomFieldMappingName-	optional	maxLength="255"
field	Attribute	GenericCustomFieldMappingName-	optional	maxLength="255"
checkTable	Attribute	GenericCustomFieldMappingName-	optional	maxLength="255"
receiverTable	Attribute	GenericCustomFieldMappingName-	optional	maxLength="255"
receiverField	Attribute	GenericCustomFieldMappingName-	optional	maxLength="255"
receiverCheckTable	Attribute	GenericCustomFieldMappingName-	optional	maxLength="255"
maxLength	Attribute	NumberValue	optional	minInclusive="0",maxInclusive="999999999"
minLength	Attribute	NumberValue	optional	minInclusive="0",maxInclusive="999999999"
pattern	Attribute	Pattern	optional	
totalDigits	Attribute	NumberValue	optional	minInclusive="0",maxInclusive="999999999"
fractionDigits	Attribute	NumberValue	optional	minInclusive="0",maxInclusive="999999999"
maxInclusive	Attribute	Inclusive	optional	
minInclusive	Attribute	Inclusive	optional	

Name	Category	Type	Occurrence	Details
displayRestrictions	Attribute	GenericCustomField Restrictions	optional	
editRestrictions	Attribute	GenericCustomField Restrictions	optional	

4. **Name**: `AribaSupplierExtension`. Use to customize supplier information in custom **Namespace** and custom SWCV.
   - **Namespace**: Use the custom namespace created in step 5 [page 194].
   - **Software Component Version**: If you use SAP ERP, enter `ARBCI2 100` or enter `ARBCI2 10S` if you use SAP S/4HANA. Use the custom SWCV created in step 2 [page 194].
   - **Data Type Enhancement**: `BPSUITERplctReqSuplr`
   - **Namespace**: `http://sap.com/xi/SAP_BS_FND/MDG/Global2`
   - **XML Namespace**: Use the custom namespace created in step 5 [page 194].
     Maintain the following values:

Name	Category	Type	Occurrence	Details
AribaSupplierExtension	Data Type Enhancement			
genericCustomFieldListCompleteTransmissionIndicator	Attribute	OPTIONAL_Indicator	optional	
GenericCustomField	Element	GenericCustomField	0.unbounded	
name	Attribute	GenericCustomFieldName	optional	minLength="1", maxLength="30",pattern="[zZ]\w="
type	Attribute	GenericCustomFieldType	optional	enumeration=Code, Date,Decimal,Indicator,Text"
title	Attribute	GenericCustomFieldTitle	optional	maxLength="40"
description	Attribute	GenericCustomFieldDescription	optional	maxLength="100"
languageCode	Attribute	LanguageCode	optional	minLength="2",maxLength="9"
table	Attribute	GenericCustomFieldMappingName-	optional	maxLength="255"
field	Attribute	GenericCustomFieldMappingName-	optional	maxLength="255"

Name	Category	Type	Occurrence	Details
checkTable	Attribute	GenericCustomField MappingName-	optional	maxLength="255"
receiverTable	Attribute	GenericCustomField MappingName-	optional	maxLength="255"
receiverField	Attribute	GenericCustomField MappingName-	optional	maxLength="255"
receiverCheckTable	Attribute	GenericCustomField MappingName-	optional	maxLength="255"
maxLength	Attribute	NumberValue	optional	minInclusive="0",maxInclusive="999999999"
minLength	Attribute	NumberValue	optional	minInclusive="0",maxInclusive="999999999"
pattern	Attribute	Pattern	optional	
totalDigits	Attribute	NumberValue	optional	minInclusive="0",maxInclusive="999999999"
fractionDigits	Attribute	NumberValue	optional	minInclusive="0",maxInclusive="999999999"
maxInclusive	Attribute	Inclusive	optional	
minInclusive	Attribute	Inclusive	optional	
displayRestrictions	Attribute	GenericCustomField Restrictions	optional	
editRestrictions	Attribute	GenericCustomField Restrictions	optional	

12. Save the changes.

> ⚠ Caution
>
> Ensure you are not activating the **Data Type Enhancement** changes.

13. Edit the **Data Type** `GenericCustomField` and modify the **Classification** from **Aggregated Data Type** to **Free-Style Data Type selecting**.
14. Save the changes.

> ⚠ Caution
>
> Ensure you are not activating the **Data Type** changes.

15. Edit the **Data Type Enhancement** `AribaSupplierExtension` created in step 11 [page 195] and add **Attribute** and **Element**.
    - Add **Attribute** `genericCustomFieldListCompleteTransmissionIndicator` and set **Type** as `OPTIONAL_Indicator`, and **Occurrence** as `optional` from search help.
    - Add **Element** `GenericCustomField` and set the **Type** to `GenericCustomField`, and **Occurrence** as `0..unbounded` from search help.
16. Save the changes.

> ⚠ Caution
>
> Ensure you are not activating the **Data Type Enhancement** changes.

17. Edit the **Data Type** `GenericCustomField` and modify the **Classification** from **Aggregated Data Type** to **Free-Style Data Type**.

> ⓘ Note
>
> The `GenericCustomField` is defined as a **Free-Style Data Type** in the `ARBCI2 PI XICONTENT tpz`, while `BPSUITERplctReqSuplr` uses an **Aggregated Data Type**. SAP PI does not support combining a **Free-Style Data Type** with an **Aggregated Data Type** due to compatibility limitations. To ensure successful integration, modify the classification of `GenericCustomField` to an **Aggregated Data Type** before adding enhancements, and change it back to **Free-Style Data Type**.

18. Save the changes.

> ⚠ Caution
>
> Ensure you are not activating the **Data Type** changes.

19. Activate the standard change lists from step 15 [page 202] and step 17 [page 202] simultaneously.
20. Generate the proxy in your SAP ERP or SAP S/4HANA system. Ensure that you prefix the proxy using Z*/Y*.

> ⓘ Note
>
> The developer access key is not required, as these changes are made within your custom **Namespace**.

21. To extend your business partner data to include the custom fields, implement the following BAdIs for the enhancement spot `MDG_SE_SPOT_BPBUPA`
    - `MDG_SE_BP_BULK_REPLRQ_OUT` to extend the business partner data and send the supplier information from SAP ERP or SAP S/4HANA to SAP Ariba Supplier Management solutions.
    - `MDG_SE_BP_BULK_REPLRQ_IN` to extend the business partner data and receive the supplier information from SAP Ariba Supplier Management solutions to SAP ERP or SAP S/4HANA.

Data Type Enhancements to Customize Fields for SAP Ariba Supplier Management solutions

> **Note**
>
> As a best practice, SAP Ariba doesn't recommend usage of custom generic fields as it requires additional customization in SAP ERP, SAP S/4HANA, or SAP MDG and custom implementation on a case-to-case project basis.

The following table contains details about the attributes for the data type enhancements that you can use to customize supplier data:

Name	Type	Description
name	GenericCustomFieldName	Name of the field. This is both the default display name and also the identifier for the field.
type	GenericCustomFieldType	General type of the field, selected from the `GenericCustomerFieldType` enumerated values. If it isn't specified or not recognized, the type defaults to `Text`.
title	GenericCustomFieldTitle	Display title of the field.
description	GenericCustomFieldDescription	Description of the field.
languageCode	LanguageCode	SAP Language code for the title and description of the field. If no value is specified, it defaults to `en`.
table	GenericCustomFieldMappingName-	Sender's table name where the value of the mapped field is stored.
field	GenericCustomFieldMappingName-	Sender's field name in the table where the value of the mapped field is stored.
checkTable	GenericCustomFieldMappingName-	Sender's name of the check table used to validate the code values.
receiverTable	GenericCustomFieldMappingName-	Receiver's table name, if any, where the value of the mapped field is stored. receiverTable and receiverField should appear together, or not at all.
receiverField	GenericCustomFieldMappingName-	Receiver's field name in the table where the value of this mapped field is stored. receiverTable and receiverField should appear together, or not at all.

Name	Type	Description
receiverCheckTable	GenericCustomFieldMappingName-	Receiver's name of the check table used to validate the code values.
maxLength	NumberValue	Maximum length of the value string in characters, for input validation, if type="Text".
minLength	NumberValue	Minimum length of the value string in characters, for input validation, if type="Text".
pattern	Pattern	A regular expression that must match valid input, if type="Text".
totalDigits	NumberValue	Maximum total digits, for input validation, if type="Decimal".
fractionDigits	NumberValue	Maximum digits in the fractional part, for input validation, if type="Decimal".
maxInclusive	Inclusive	Maximum decimal value, for input validation, if type="Decimal".
minInclusive	Inclusive	Minimum decimal value, for input validation, if type="Decimal".
displayRestrictions	GenericCustomFieldRestrictions	A comma-separated list of display contexts in which this field is displayed.
editRestrictions	GenericCustomFieldRestrictions	A comma-separated list of display contexts in which this field is editable.

Monitoring Errors in SAP ERP

Use the following transaction code to monitor errors that might occur during the inbound and outbound transaction between SAP ERP and SAP Integration Suite, managed gateway.

SRT_MONI

1. Go to transaction code `SRT_MONI`.
   The **SOA Runtime Tools** window appears.
2. Click **SOA Runtime Tools** > **Monitoring** > **Web Service Utilities: Message Monitor**.
   The **Web Service Utilities: Message Monitor** window appears.

3. Specify the filters and click the **Execute** icon.
   The **Web Service Utilities: Message Monitor** page lists the errors, if any.

Integrating SAP Master Data Governance (MDG) with Ariba Supplier Lifecycle and Performance (SLP) without using Default Logical Port on SAP S/4HANA

This document describes the steps required to set up the Business Partner integration from SAP S/4HANA to SAP Ariba Supplier Lifecycle and Performance (SLP) without making of the Default Logical Port in the outbound services. This is especially required if the SAP S/4HANA system is connected to more cloud applications such as SAP C4C or Fieldglass.

https://www.sap.com/documents/2020/11/da716b37-bb7d-0010-87a3-c30de2ffd8ff.html

Integration to Support Master Data Native Integration

Configuring End-Points to Integrate with MDNI [page 206]

Exporting Master Data to MDNI [page 207]

Configuring the Filter for Incremental Export of Master Data [page 208]

Implementing BAdIs for MDNI [page 209]

Configuring Master Data Native Integration Incremental Extract Events [page 210]

Configuring Master Data Native Integration Incremental Field Restrictions [page 211]

Configuring Ariba Event Linkages [page 213]

Configuring Ariba User HR Event Linkage [page 215]

Maintaining User Profiles for User Master Data [page 217]

Configuring the Interface to Export Product Master from SAP ERP to MDNI [page 217]

Maintaining Parameters for Exporting Product Master to Master Data Native Integration [page 218]

Maintaining Timestamp for Exporting Incremental Loads of Product Master Data [page 219]

Exporting Product Master from SAP ERP to MDNI [page 220]

Scheduling a Job for Product Master Export Using Master Data Native Integration [page 222]

Configuring End-Points to Integrate with MDNI

Context

Use this program to enable the flow of messages between SAP ERP and MDNI. This is a one-time activity, but you can rerun the program any time there is an update relevant to outbound web services.

You can view the status of the report using the Tcode `SLG1`, using the object `ARBCIG_INTERFACE` and subobject `IF_LOGS`

The Logical Port setting is overwritten each time you run the interface settings for outbound web services.

Perform the following steps to configure the connections to send messages:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Native Integration** > **Setup the Interface**
4. Click **IMG-Activity** for **Configure the Outbound Connections to send messages**.

   The **Interface Setup Program for SAP Ariba MDNI** screen appears.
5. Perform the following steps in the **Interface Setup for Web Service** section:
   a. Select a data center. (Prerequisite: Ensure that you have configured the corresponding RFC Destination)
   b. Select one of the following to indicate if the connection is to a production or test instance of SAP Integration Suite, managed gateway:
      - **Connect to SAP Integration Suite, managed gateway Production Instance**
      - **Connect to SAP Integration Suite, managed gateway Test Instance**
   c. Select one of the following types of authentication methods:
      - Select **User ID / Password** and enter authentication information to connect to SAP Integration Suite, managed gateway.
      - Select **X.509 SSL Client Certificate** and choose the **Certificate Name** (ARIBA, for example).
   d. If you use a proxy server, enter the following:
      - Enter the HTTP proxy name in the **Name of Proxy Host** field. For example, proxy.abc.com.
      - Enter the port name in the **Port Number of Proxy Host** field. For example, `8080`.
      - Enter the user name for the proxy server in the **User Name of Proxy Server** field. For example, <user name> registered for the proxy server.
      - Enter the password for the registered user name in the **Proxy User Password** field. For example, <password> for the registered user on the proxy server.
6. Choose from the following options to set up web services for the outbound data sent to SAP Integration Suite, managed gateway:

- **Company Code**
- **Cost Center**
- **Unit of Measurement**
- **Plant**
- **Asset/Asset Class**
- **Material Group**
- **Purchasing Organization**
- **GL Account**
- **Exchange Rate**
- **Purchasing Group**
- **Internal Order**
- **Currency**
- **Plant Purchasing Organization**
- **WBS Elements**
- **Tax Codes**
- **Payment Terms**
- **User**

7. Click **Execute**.

Exporting Master Data to MDNI

Prerequisites

- Ensure that the end-points are configured for SAP ERP to communicate with MDNI. For more information, see Configuring End-Points to Integrate with MDNI [page 206].
- Before exporting the following master data extracts, implement the corresponding SAP Notes:
  - Payment Term - Implement the SAP Note: 2690724.
  - General Ledger - Implement the SAP Note: 2868158.

Context

You can run the `ARBCIG_MDNI` area menu code on SAP ERP to export master data from SAP ERP to Master Data Native Integration. You can run both full load and incremental load export using the available extracts.

Procedure

1. Run the are menu code `ARBCIG_MDNI` on the **SAP Easy Access** page.

The **SAP Easy Access Master Data Native Integration Transactions** page appears. The page lists the master data objects that are available for export.

2. Double-click a master data object.

   The extract screen for the master data appears.

3. You can perform the following tasks on screen:
   - Click **Fields for selection** to filter the data exported in the master data extract.

     > ⓘ Note
     >
     > If you see **Active Filters**, click to see the filters that are set by default. SAP Ariba recommends not to delete the out-of-the-box filters,but you can add filters to it.

   - Click the **Get variant** icon to export master data from a specific SAP ERP system.
   - Check **Display Data** and click **Execute** to display the XML document of the master data extract.
4. Click **Execute** to export master data based on the selected criteria.

   The **Display logs** screen appears. You can check the status of the master data export. Message types are distinguished by colored icons (Stop for cancel, red for error, yellow for warning, green for information).

Configuring the Filter for Incremental Export of Master Data

Prerequisites

- Ensure that the end-points are configured for SAP ERP to communicate with MDNI. For more information, see Configuring End-Points to Integrate with MDNI [page 206].

Context

Incremental export is supported only for the following objects:

- WBS
- General Ledger
- User data

Ariba recommends not to delete any filters that are set by default.

Procedure

1. Run the transaction code `ARBCIG_MDNI`.

   The **SAP Easy Access Master Data Native Integration Transactions** screen appears. The screen lists the master data objects that are available for export.

2. Double-click the master data object for incremental export.

   The extract screen for the master data appears.
3. You can perform the following tasks on screen:
   - Click **Active Filters** to view the filters selected by default. You can add more filters to the master data extract.

     > ⓘ Note
     >
     > Ariba recommends not to delete any filters that are set by default.

   - Click **Get variant** and specify the variant to export master data from a specific SAP ERP system.
   - Check **Records since last run** and specify the date for incremental extract of the master data.
4. (Optional) Check **Display Data** and click **Execute** to display the XML document of the master data extract.

   The **Display logs** screen appears. You can check the status of the master data export. Message types are distinguished by colored icons (Stop for cancel, red for error, yellow for warning, green for information).
5. Click **Execute** to export master data based on the selected criteria.

Implementing BAdIs for MDNI

Context

The BAdI `ARBCIG_MDNI` allows buyers to customize the master data information before export. Use the following methods to enhance the BAdI.

Following table lists the methods that you can implement:

Table 4: Methods

Method Name	Description
`ENHANCE_COMPANYCODE`	Enhance company code details
`ENHANCE_PLANT`	Enhance plant details
`ENHANCE_PURORG`	Enhance purchase organization details
`ENHANCE_PLANTPURORG`	Enhance plant purchase organisation details
`ENHANCE_PURGROUP`	Enahance purchasing group
`ENHANCE_WBS`	Enhance WBS element
`ENHANCE_GL`	Enhance general ledger
`ENHANCE_ACCCAT`	Enhance account assignment category
`ENHANCE_CURRENCY`	Enhance currency
`ENHANCE_MATERIALGROUP`	Enhance material group
`ENHANCE_TAXCODE`	Enhance tax code
`ENHANCE_ASSET`	Enhance asset

Method Name	Description
ENAHNCE_PAYMENTTERMS	Enhance payment terms
ENHANCE_INTERNALORDER	Enhance internal order
ENHANCE_EXCHANGERATE	Enhance exchange rate
ENHANCE_COSTCENTER	Enhance cost center
ENHANCE_USER	Enhance user
ENHANCE_PRODUCTMASTER	Enhance product master data

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer**
4. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: ARBCIG_MDNI

Configuring Master Data Native Integration Incremental Extract Events

This is a one-time activity and a mandatory configuration to run the incremental load for master data.

Context

To configure the incremental extract event, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Native Integration** > **General Settings**.
4. Click **IMG-Activity** for **Configure Ariba Master Data Native Integration Extract Events**.

   The **Ariba Incremental Extract Event Configuration** screen appears.
5. Select **General Ledger** master data that you want to configure for incremental export.

   The buyer catalogue upload request is not part of MDNI.
6. Click **Execute**.

   The **Display logs** screen appears with the details of the master data extract events.

> ### Note
>
> You can also see the details using the Tcode **SLG1** with the **ARBCIG_UTILITY** object and the **CONFIG** subobject.

Configuring Master Data Native Integration Incremental Field Restrictions

You need to set up the field restrictions manually in the SWEC table.

Context

Perform the following steps to configure the incremental field restrictions for General Ledger master data:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Native Integration** > **General Settings**.
4. Click **IMG-Activity** for **Configure Ariba Master Data Native Integration Incremental Field Restrictions**.

   The **Ariba Field Restrictions** screen appears.
5. Select the general ledger master data extract object. For example,

Incremental Export	Object	Object Type	Event (Change)	Event (Create)	Event (Delete)
General Ledger	SACH	ARBCIG3006	CHANGEGL		
General Ledger	SACH	ARBCIG3006	DELETEGL		

> **Note**
>
> Make a note of the object type, event, and the action type (create, change, or delete) for the selected object.

6. Click **Execute**.

   The **Ariba Field Restrictions** screen appears with the details of the configured restrictions.
7. Press Ctrl+C to copy the content of the page. Note that the content is already selected.
8. Run the transaction code `SWEC`.

   The **Change View "Events for Change Document": Overview** screen appears.
9. Locate the object with the same object type, event, and action type. For example,

Change Doc Object	Object Category	Business Object Type	Event	On Create	On Change	On Delete
ANLA	BOR Object Type	ARBCIG1022	ASSETCHANGED		X	

10. Select event line in change mode.
11. Double-click **Field Restrictions** folder in the left pane.

    The **Change View "Field Restrictions": Overview** screen appears.
12. Click **Condition Editor**.
13. If the direct text entry mode is not configured for your user interface, perform the following steps:
    - Click **Utilities** > **Settings**.
    - On the **Condition Editor: Personal Settings** page, select **Direct text entry (traditional mode)**.
    - Save the configuration.
14. Click **New rows** to include the content for field restriction.

> **Note**
>
> Ensure that the number of rows you add is equal to the number of rows of content that you copied in Step 7.

15. Click column for **Expression 1** and paste the copied content for field restrictions.
16. Click **Back** and enter the **Transport Request** number.
17. Click **Save**.

Configuring Ariba Event Linkages

Link the incremental extract events with the corresponding function module.

Context

Perform the following steps to configure event linkages:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **General Settings**.
4. Click **IMG-Activity** for **Ariba Event Linkages**.

   The **Change View Event Type Linkages: Overview** screen appears.
5. Click **New Entries** and enter the following information:

Object Category	Object Type	Event	Receiver Type	Receiver Call	Class Name	Interface Name	Method Name
BOR Object Type	ARBCIG0012	COSTCENTERCHANGED	CHANGE	Method	CL_ARBCIG_CHANGEDOC	BI_EVENT_HANDLER_STATIC	ON_EVENT
BOR Object Type	ARBCIG0012	COSTCENTERCREATED	CREATE	Method	CL_ARBCIG_CHANGEDOC	BI_EVENT_HANDLER_STATIC	ON_EVENT
BOR Object Type	ARBCIG0012	COSTCENTERDELETED	DELETE	Method	CL_ARBCIG_CHANGEDOC	BI_EVENT_HANDLER_STATIC	ON_EVENT
BOR Object Type	ARBCIG1001	CREATED	CHANGE	Method	CL_ARBCIG_CHANGEDOC	BI_EVENT_HANDLER_STATIC	ON_EVENT
BOR Object Type	ARBCIG1006	CREATED	CREATE	Method	CL_ARBCIG_CHANGEDOC	BI_EVENT_HANDLER_STATIC	ON_EVENT

Object Category	Object Type	Event	Receiver Type	Receiver Call	Class Name	Interface Name	Method Name
BOR Object Type	ARBCIG1006	VIEWCREATED	CREATE	Method	CL_ARBCIG_CHANGEDOC	BI_EVENT_HANDLER_STATIC	ON_EVENT
BOR Object Type	ARBCIG1022	ASSETCHANGED	CHANGE	Method	CL_ARBCIG_CHANGEDOC	BI_EVENT_HANDLER_STATIC	ON_EVENT
BOR Object Type	ARBCIG1022	ASSETCREATED	CREATE	Method	CL_ARBCIG_CHANGEDOC	BI_EVENT_HANDLER_STATIC	ON_EVENT
BOR Object Type	ARBCIG1022	ASSETDELETED	DELETE	Method	CL_ARBCIG_CHANGEDOC	BI_EVENT_HANDLER_STATIC	ON_EVENT
BOR Object Type	ARBCIG3006	CHANGEGL	CHANGE	Method	CL_ARBCIG_CHANGEDOC	BI_EVENT_HANDLER_STATIC	ON_EVENT
BOR Object Type	ARBCIG3006	CREATEGL	CREATE	Method	CL_ARBCIG_CHANGEDOC	BI_EVENT_HANDLER_STATIC	ON_EVENT
BOR Object Type	ARBCIG3006	DELETEGL	DELETE	Method	CL_ARBCIG_CHANGEDOC	BI_EVENT_HANDLER_STATIC	ON_EVENT
BOR Object Type	ARBCIG3060	ONCREATE	CREATE	Method	CL_ARBCIG_CHANGEDOC	BI_EVENT_HANDLER_STATIC	ON_EVENT
BOR Object Type	ARBCIG3060	STATUSCHANGED	CHANGE	Method	CL_ARBCIG_CHANGEDOC	BI_EVENT_HANDLER_STATIC	ON_EVENT
BOR Object Type	ARBCIG3060	UPDATED	CHANGE	Method	CL_ARBCIG_CHANGEDOC	BI_EVENT_HANDLER_STATIC	ON_EVENT
BOR Object Type	ARBCIGLFA1	VENDORCHANGED	CHANGE	Method	CL_ARBCIG_CHANGEDOC	BI_EVENT_HANDLER_STATIC	ON_EVENT
BOR Object Type	ARBCIGLFA1	VENDORCREATED	CREATE	Method	CL_ARBCIG_CHANGEDOC	BI_EVENT_HANDLER_STATIC	ON_EVENT
BOR Object Type	ARBCIGLFA1	VENDORDELETED	DELETE	Method	CL_ARBCIG_CHANGEDOC	BI_EVENT_HANDLER_STATIC	ON_EVENT

Object Category	Object Type	Event	Receiver Type	Receiver Call	Class Name	Interface Name	Method Name
BOR Object Type	ARBCIGUSER	CLONED	USER_CHANGE	Method	CL_ARBCIG_CHANGEDOC	BI_EVENT_HANDLER_STATIC	ON_EVENT
BOR Object Type	ARBCIG1001	CREATED	CHANGECAT	Method	CL_ARBCIG_DOC_CHANGES	BI_EVENT_HANDLER_STATIC	ON_EVENT
BOR Object Type	ARBCIG1006	VIEWCREATED	CREATECAT	Method	CL_ARBCIG_DOC_CHANGES	BI_EVENT_HANDLER_STATIC	ON_EVENT
BOR Object Type	ARBCIG3003	STARTVEEKPLAMATNRDEL	CHANGECAT	Method	CL_ARBCIG_DOC_CHANGES	BI_EVENT_HANDLER_STATIC	ON_EVENT
BOR Object Type	ARBCIG3003	STARTVENDORMATNRDEL	CREATECAT	Method	CL_ARBCIG_DOC_CHANGES	BI_EVENT_HANDLER_STATIC	ON_EVENT
BOR Object Type	ARBCIG3060	STATUSCHANGED	CHANGECAT	Method	CL_ARBCIG_DOC_CHANGES	BI_EVENT_HANDLER_STATIC	ON_EVENT

6. Choose **`Using tRFC`** for **Event delivery**.
7. Check the **Linkage Activated** checkbox for all the entries.
8. Click **Next Entry** and enter the information for the next record.
9. Repeat steps 5 to 8 for all entries and click **Save**.

Configuring Ariba User HR Event Linkage

Context

Perform the following steps to configure HR event linkages for user master data:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Native Integration** > **Application Specific Settings** > **User** .
4. Click **IMG-Activity** for **SAP Ariba User HR Event Linkage**.

   The **Change View HR-CA: Event Linkage for Customer: Overview** screen appears.
5. Click **New Entries** and enter the following information:

Object Type	Object Type Text	Infotype	Update operation	Sequence Number	Object Type	Function Module
P	Person	0001	INS	0	ARBCIG1065	ARBCIG_HRPM_CHANGE_DOCS
P	Person	0001	UPD	0	ARBCIG1065	ARBCIG_HRPM_CHANGE_DOCS
P	Person	0002	UPD	0	ARBCIGTNT	ARBCIG_HRPM_CHANGE_DOCS
P	Person	0105	DEL	0	ARBCIGEMPL	ARBCIG_HRPM_CHANGE_DOCS
P	Person	0105	INS	0	ARBCIGEMPL	ARBCIG_HRPM_CHANGE_DOCS
P	Person	0105	UPD	0	ARBCIGEMPL	ARBCIG_HRPM_CHANGE_DOCS

> **Note**
>
> If you get the following error message:
>
> `No Entry exists in T777IBO table`
>
> Maintain the following entry in the `T777IBO` table.

OT	Object type text	IT	Object type	Name
`P`	`Person`	`0001`	`ARBCIG1065`	Add a meaningful name.

6. Click **Next Entry** and enter the information for the next record.
7. Repeat steps 5 to 6 for all entries and click **Save**.

Maintaining User Profiles for User Master Data

Configure the user roles mapped to each solution.

Context

This is required for user master data extraction. Maintain relevant roles applicable for SAP Ariba solutions.

> ⓘ Note
>
> In this configuration task, you maintain the data in the `ARBCIG_USR_GRP` table. To use this table in a new SAP system landscape, you must transfer the data using a transport.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Native Integration** > **Application Specific Settings** > **User** >.
4. Click **IMG-Activity** for **Maintain User Profiles for User Master Data**.

   The **Change View "Table to hold the user roles mapped to groups": Overview** screen appears.
5. Click **New Entries** in the application toolbar to add new entries.
6. Enter the following details:
   - **Solution**: Select the solution name from the list.
   - **Role**: Select the user role to be mapped with the solution.
   - **Realm**: Add a realm name.
7. Click **Save**.

Configuring the Interface to Export Product Master from SAP ERP to MDNI

Context

This section describes how to configure the interface to export product master from SAP ERP to MDNI.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** page appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Native Integration** > **General Settings** > **Setup the Interface**
4. Click **IMG Activity** for **Configure the Outbound Connection to send messages**.

   The **Interface Setup Program for SAP Ariba MDNI** page appears.
5. In the **Outbound messages sent to Managed Gateway for Spend&Network for Buyer** section, check the **Product Master** checkbox and click **Execute**.

Maintaining Parameters for Exporting Product Master to Master Data Native Integration

Context

To maintain the parameter required for setting the validity period to retain the changed material documents in the ARBCIG_CHANGEDOC table for exporting the product master to master data native integration (MDNI), perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** page appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Native Integration** > **Application Specific Settings** > **Product Master**
4. Click **IMG-Activity** for **Maintain Parameters**.

   The **Parameters - Product Master** page appears.
5. Maintain the following parameters:

Table 5: Parameter for Product Master Export to MDNI

Parameter Name	Description	Supported Values
CHANGEDOC_RETENTION_DAYS	Set the validity period to retain changed material documents in the ARBCIG_CHANGEDOC table. You do not need to maintain this parameter if you are not exporting product master to MDNI.	• **Variable Name**: CHANGEDOC_RETENTION_DAYS • **Field Name**: Leave it empty. • **Number**: 0000 • **Low**: Enter the validity period in days (for example, **2**) for which you want to retain the changed material documents in the ARBCIG_CHANGEDOC table.

Maintaining Timestamp for Exporting Incremental Loads of Product Master Data

Prerequisites

If you want to use the master data native integration report (ARBCIG_MDNI_PRODUCTMASTER) for exporting product master data, you must first maintain the parameter required for setting the validity period to retain the changed material documents in the ARBCIG_CHANGEDOC table.

For more information, see Maintaining Parameters for Exporting Product Master to Master Data Native Integration [page 218]

Context

To export product master data (material data), you can use the following reports:

- Master data export report (ARBCIG_MASTER_DATA_EXPORT)
- Product master export to master data native integration report (ARBCIG_MDNI_PRODUCTMASTER)

To export the product master data using the master data native integration report (ARBCIG_MDNI_PRODUCTMASTER), maintain the extract, **Product Master (Material Master - MDNI)** in the **Date and Time Stamp for Master Data** table.

To use both the reports (ARBCIG_MASTER_DATA_EXPORT and ARBCIG_MDNI_PRODUCTMASTER), maintain the extracts, **Material Data** and **Product Master (Material Master - MDNI)** in the **Date and Time Stamp for Master Data** table.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** page appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Native Integration** .
4. Click **IMG-Activity** for **Maintain Timestamp for Master Data Native Integration**.

   The **Change View "Date and Time stamp for Master Data": Overview** page appears.
5. Click **New Entries**.

   The **New Entries: Overview of Added Entries** page appears.
6. In the **Date and Time stamp for Master Data** table, do the following:
   - To export the product master data using the master data native integration report (ARBCIG_MDNI_PRODUCTMASTER), enter the following details and click **Save**:
     - **Extract**: Enter **Product Master (Material Master - MDNI)**.
     - **Realm**: Enter the realm name for the product master data.
     - **Date Time Stamp**: Enter the time stamp for the product master data.
   - To export the product master data using the master data native integration report (ARBCIG_MDNI_PRODUCTMASTER) and material master data using the master data export report (ARBCIG_MASTER_DATA_EXPORT), enter the following details and click **Save**:
     - **Extract**: Enter **Product Master (Material Master - MDNI)** for product master and **Material Data** for material master data.
     - **Variant**: (Optional) Enter the variant (for example, VSAP). This applies only to the export of material data using the ARBCIG_MASTER_DATA_EXPORT report. Do not use it if you are exporting master data to MDNI.
     - **Partition**: (Optional) Enter the variant (for example, PSAP). This applies only to the export of material data using the ARBCIG_MASTER_DATA_EXPORT report. Do not use it if you are exporting master data to MDNI.
     - **Realm**: (Optional) Enter the realm of the SAP Ariba application to which you are exporting the master data. This applies only to the export of material data using the ARBCIG_MASTER_DATA_EXPORT report. Do not use it if you are exporting master data to MDNI.
     - **Date Time Stamp**: Enter the time stamp for the product master export.

Exporting Product Master from SAP ERP to MDNI

Context

You can access the **Product Master Export to MDNI** report through the Area Menu. You can use this report to export the product master in two modes - full load and incremental load.

> **Note**
>
> MDNI can support the payload of the size upto 50 MB.

The **Product Master Export to MDNI** report helps you create filters for product master export. You can add filters from the following categories:

- Material Descriptions
- General Material Data
- Plant Data for Material

You can configure different types of filter criteria to export product master in batches for the full load export. Exporting product master in batches is helpful when you are dealing with a huge volume of data.

Procedure

1. Run the area menu code `ARBCIG_MDNI`.

   The **SAP Easy Access Master Data Native Integration Transactions** page appears.
2. Under **SAP Menu**, double-click **Product Master**.

   The **Product Master Export to MDNI** report appears.

   > **Note**
   >
   > The **Product Master Export to MDNI** report does not extract materials that are not associated with a plant.
3. To filter the product master for exporting to MDNI, click **Fields for Selection**.

   > **Note**
   >
   > If you see active filters, click to view the filters that are set by default. SAP Ariba recommends not to delete the out-of-the-box filters, but you can add filters to it.
4. In the **Execution Options** section, do the following:
   - Check **Display Data**.
   - In the **Limit Display Records** field specify the number of records that you can display on the product master export screen at a time.
5. In the **Extraction Options** section, do one of the following:
   - To export product master in full load, choose **Full Mode**.
   - To export product master in incremental load, choose **Incremental Mode**.
6. (Optional) Uncheck the **Display Data** checkbox in **Step 3** and do the following:
   - In the **Packaging Options** section, in the **Packet Size** field, enter the number of packets that you want to send in each package.
7. Click **Execute**.

Scheduling a Job for Product Master Export Using Master Data Native Integration

Prerequisites

Ensure that you have configured the `ARBCIG_MDNI_PRODUCTMASTER` program before scheduling the export job.

Context

You can schedule a job to export product master from SAP ERP to master data native interface (MDNI) using SAP Integration Suite, managed gateway.

Procedure

1. Run the transaction code `SM36`.

   The **Define Background Job** screen appears.
2. In the **Program** filed, enter, `ARBCIG_MDNI_PRODUCTMASTER`.
3. Schedule the program.

Configuring Supported Transactions

Configuration of Transactions Supported by SAP Business Network [page 223]

Configuration of Transactions Supported by SAP Ariba Procurement solutions [page 426]

Configuration of Transactions Supported by SAP Ariba Strategic Sourcing Suite [page 534]

Configuration of Transactions Supported by SAP Business Network

The following sections describe the configurations required on the SAP ERP or SAP S/4HANA add-on to map the transactions and messages to cXML and send it to SAP Business Network.

The following are SAP Business Network for Supply Chain specific transactions:

- Component Consumption Request
- Component Consumption Backflush
- Ship Notice Request
- Product Activity Message
- Product Replenishment Message
- Replenishment order

Outbound Transactions [page 223]

Inbound Transactions [page 334]

Quality Management [page 379]

Parameter Persistence for Supported SAP Business Network Transactions [page 426]

Outbound Transactions

SAP Integration Suite, managed gateway supports following outbound transactions from SAP ERP or SAP S/4HANA to SAP Business Network:

Purchase Requisition [page 224]

Purchase Order [page 227]

Stock Transport Order [page 243]

Scheduling Agreement Release [page 245]

Receipt Request [page 252]

Order Enquiry [page 258]

ERP-Initiated Invoice [page 264]

ERP-Initiated Service Entry Sheets [page 280]

Ship Notice Request [page 287]

Invoice Status Update [page 292]

Product Activity Message [page 298]

Payment Remittance [page 307]

Payment Remittance Batch [page 312]

Service Sheet Response [page 323]

Payment Proposal [page 328]

Purchase Requisition

For any prerequisites and limitations of the transaction, read Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide.

> **Note**
>
> Integration of Service Requisitions with SAP Business Network through SAP Integration Suite, managed gateway is not supported.

Integrating purchase requisitions with SAP Business Network requires the following configurations:

Exporting Purchase Requisition Data to SAP Business Network [page 224]

Maintaining Parameters and Prefilters for Requisition [page 225]

Maintaining Configuration Related to Requisition Export [page 227]

Exporting Purchase Requisition Data to SAP Business Network

Context

This program is used to send purchase requisitions to SAP Business Network from SAP ERP. New purchase requisitions are fetched from the EBAN table and the changed purchase requisitions since the last run date of the program are fetched from the CDHDR table. The last run date, last run time, and the latest purchase requisition data are updated in the ARBCIG_REQPARAM table.

Purchase requisition header details, item details, and accounting details are included in the export.

You can set additional filters for the export using the Maintain Parameters and Prefilters for Requisition node [page 225]. For example, you can maintain the purchase requisition document types.

Purchase requisitions with the following statuses are not exported:

- Closed

- Release not yet completely affected
- Partially completed requisitions

Procedure

1. Run the transaction code SE38.

   The **ABAP Editor: Initial Screen** appears.
2. Run the **ARBCIG_REQUISITION_EXPORT** program.

   The **Requisition Export through Proxy** screen shows the number of records that are exported.

Maintaining Parameters and Prefilters for Requisition

Context

To maintain parameters for requisition and to construct conditional searches of your SAP ERP and SAP S/4HANA tables according to the values of specified fields for requisitions on the table EBAN, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Purchase Requisition**.
4. Click **IMG-Activity** for **Maintain Prameters and Prefilters for Requisition**.

   The **Parameters - Requisition** screen appears.
5. Click **Modify**.
6. Maintain the following parameters:

Table 6: Parameters for Requisition

Parameter name	Description	Field
REQUISITION_EXPORT	If the requisition creator email address is not available, this email address is considered as requisition creator email address.	• **Variable Name**: REQUISITION_EXPORT • **Field Name**: DEFAULT_PREPARER_EMAILID • **Type**: P • **Number**: 0000 • **Sign**: I • **Option**: EQ • **Low**: `email id` • **High**: Leave it blank
REQUISITION_EXPORT	If the requester email address is not available, this email address is considered as requester email address.	• **Variable Name**: REQUISITION_EXPORT • **Field Name**: DEFAULT_REQUESTER_EMAILID • **Type**: P • **Number**: 0000 • **Sign**: I • **Option**: EQ • **Low**: `email id` • **High**: Leave it blank

7. Maintain the following prefilter information:

Table 7: Prefilter Information for Requisition

Parameter name	Description	Field
REQUISITION_EXPORT	To filter the requisitions fetched from EBAN table based on **Field Name**. The field name should be available in the EBAN table. **Field Name** is a required field.	• **Variable Name**: REQUISITION_EXPORT • **Field Name**: WERKS • **Type**: S • **Number**: 0000 • **Sign**: I or E • **Option**: For example, EQ or BT • **Low**: 0001 • **High**: Enter a high value.

Maintaining Configuration Related to Requisition Export

Context

In this customizing activity, you can define how documents that have been created or changed in SAP ERP or SAP S/4HANA are transferred to SAP Business Network.

> **Note**
>
> In this configuration task, you maintain the data in the `ARBCIG_REQPARAM` table. To use this table in a new SAP system landscape, you must maintain the data manually.

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Purchase Requisition** .
4. Click **IMG-Activity** for **Maintain Configuration Related to Requisition Export**.

   The **Change View: "Table to store Ariba Requisition Parameters": Overview** screen appears.
5. Enter the values for the following parameters:
   - **Order Type**: Specify the document type to fetch. For example, NB
   - **Purchase Requisition**: This is an optional field. Specify the requisition number to fetch. If you leave it blank, all the requisition for the document type would be fetched.
   - **Date** : This is an optional field. Specify the date from which the purchase requisition should be fetched. If you leave it blank, all the requisitions from that date for the specified requisition number would be fetched.
   - **Time**: This is an optional field. Specify the time from which the purchase requisition should be fetched for the mentioned date. If you leave it blank, all the requisitions from that date for the specified requisition number would be fetched.

Purchase Order

For any prerequisites and limitations of the transaction, read .Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide Integrating purchase orders with SAP Business Network requires the following configurations:

Configuring Purchase Order in SAP ERP and SAP S/4HANA [page 228]

Generating Work Order-based Service Orders [page 242]

Configuring Purchase Order in SAP ERP and SAP S/4HANA

The following sections describe the procedures to configure purchase orders in SAP ERP and SAP S/4HANA for integration with SAP Business Network:

Defining Message Output Control for Purchase Order [page 228]

Maintaining Parameters for Purchase Orders [page 230]

Configuring the Partner Roles for Multitier Purchase Orders [page 233]

Configuring Implicit Enhancements for Change and Cancel Orders [page 234]

Implementing a Customer Exit for Purchase Orders [page 235]

Maintaining the Parameter to Send Handling Units to SAP Business Network [page 236]

Controlling Sending Your Accounting Information to the Supplier [page 237]

Converting Dates on Transaction Documents to Plant-Specific Time Zone [page 238]

Sending Multiple Text Types to SAP Business Network [page 238]

Enabling BRFplus in SAP S/4HANA [page 239]

Selecting Print-Relevant Fields for Change Purchase Orders Output [page 240]

Blocking Purchase Order Line Items [page 241]

Closing Purchase Order Lines [page 242]

Defining Message Output Control for Purchase Order

Context

In this customizing activity, you can define how documents that were created or changed in SAP ERP or SAP S/4HANA are transferred to SAP Business Network.

Prerequisite

- Ensure that the partner type LS is available.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Purchase Order**.
4. Click **IMG-Activity** for **Define Message Output Control for Purchase Order**.

   The **Conditions for Output Control** screen appears.
5. Select application **EF** and click **Output types**.

   The **Display View "Output Types": Overview** screen appears.
6. Click **NEU**, for example, and click **Change**.

   The **Change View "Output Types": Overview** screen appears.
7. Double-click **NEU**, for example.

   The **Change View "Output Types": Details** screen appears.
8. On the **General Data** tab, for **Access sequence** choose **0001 DocType/PurchaseOrg/Vendor**.
9. On the **Default values** tab, create an entry as follows:
   - **Dispatch time**: `Send immediately (when saving the application)`
   - **Transmission Medium**: `EDI`
   - **Partner Function**: `LS`
10. Click **Save** and go back to the **Change View "Output Types": Overview** screen.
11. Click **NEU**, for example, and then double-click **Processing routines**

    The **Change View "Processing routines": Overview** screen appears.
12. In the **Processing routines** section, create an entry as follows:
    - **Transmission Medium**: `EDI`
    - **Program**: `RSNASTED`
    - **FORM routine**: `EDI_PROCESSING`
    - Save the entry.
13. Click **NEU**, for example, and then double-click **Partner Functions**.

    The **Display View "Partner functions": Overview** screen appears.
14. In the **Partner Functions** section, create an entry as follows:
    - **Medium**: `EDI`
    - **Function**: `LS`
    - **Name**: `Logical system`
15. Save the entry.
16. Select application **EF** and click **Condition records**.

    The **Output Types** popup appears.
17. Click **NEU**, for example, and then click **Condition records**.

    The **Key Combination** popup appears.
18. Maintain the required key combination for **Purchasing Output Detrmination: Doc.Type/Purch.Org/Vendor**:
    - **Purchasing Doc Type**: NB
    - **Purch. Organization**: To be entered by you.

19. Click **Execute**.

    The **Change Condition Records (Purchase order): Fast Change** screen appears.
20. In the **Condition recs.** section, maintain the following entries:
    - **Vendor**: For example, `100005`
    - **Function**: For example, `LS`.
    - **Partner**: For example, `0000100005`
    - **Medium**: For example, `EDI`
    - **Date/Time**: For example, `Send immediately (when saving the application)`.
    - **Language**: For example, `EN`.
21. Click **Save**.

Maintaining Parameters for Purchase Orders

Context

Buyers need to maintain the following parameters to send purchase orders or subcontracting purchase orders to suppliers. Buyers need to maintain parameters to send copies of subcontracting purchase orders to multiple contract manufacturer suppliers on SAP Business Network.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Purchase Order** >.
4. Click **IMG-Activity** for **Maintain Parameters for Purchase Order**.

   The **Parameters - Purchase Order** screen appears.
5. Maintain the following parameters:

Table 8: Parameters for Purchase Order

Parameter name	Description	Supported values
ORDER_ENABLED	Enable or disable the SAP Ariba provided enhancements for purchase order.	• **Variable Name**: ORDER_ENABLED • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable).
REGIO_DESC_ENABLED	Enable this parameter to populate Region / Regio description in the Idoc segment.	• **Variable Name**: REGIO_DESC_ENABLED • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable).
CSC_COPY_SUPPLIER_PARVW	Required for multitier purchase orders for SAP Business Network for Supply Chain. Use this parameter to send more than one copy of the multitier purchase order or receipt.	• **Variable Name**: CSC_COPY_SUPPLIER_PARVW • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: For example,YL.
DELIVER_TO_PARVW	Mention the partner function to fetch the partner details.	• **Variable Name**: DELIVER_TO_PARVW • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: YS or YL, for example. **Note** Ensure that you maintain the partner function for this parameter in the SAP internal format.

Parameter name	Description	Supported values
ARIBA_SRVMAPKEY	Required for service purchase orders that have service line number and use the service map key activated on the SAP ERP or SAP S/4HANA system. Configure this setting only if your service purchase orders transfer from SAP ERP or SAP S/4HANA to SAP Business Network fails. This usually occurs when the business function `LOG_MM_P2PSE_1` is not active on your SAP ERP or SAP S/4HANA system. You need to also implement the SAP Note 2372821 only if the standard field **SRVMAPKEY** is not activated on your SAP ERP or SAP S/4HANA system. The standard field **SRVMAPKEY** in the **SAP Table ESLL** stores RFQ `Item ID` information. The service map key is required to identify the line numbers for the service lines. If the **SRVMAPKEY** is not available, the `Item ID` does not populate the line numbers for the service lines correctly.	• **Variable Name**: ARIBA_SRVMAPKEY • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable).
PRINT_REL_CHK_ENABLED	Required to enable change purchase orders output based on print-relevant field settings.	• **Variable Name**: PRINT_REL_CHK_ENABLED • **Field Name**: Leave it empty • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable)

Configuring the Partner Roles for Multitier Purchase Orders

Context

Configure the partner roles to send purchase order copies to multiple contract manufacturer suppliers.

Procedure

1. Run the transaction code SPRO.
2. Click **SAP Reference IMG**.
3. Click the tree structure, **Materials Management** > **Purchasing** > **Partner Determination** > **Partner Roles** > **Define partner roles** .
4. Click **New Entries**.
5. Specify the following values:
    - **Funct**: Enter a value for partner role. For example, YS .
    - **Name**: Name of the supplier. For example, Copy Supplier.
    - **NoTpe** (Type of Partner No.): The partner type is an identifier indicating the kind of partner involved. For example, LI
    - **Unique**: Do not check
    - **Higher-Level Partner Role**: This is an optional field. You can specify the a higher-level role for a given partner role to send a copy to.
    - **Funct**: Enter a value for partner role. For example, YL.
    - **Name**: Name of the logistics provider. For example, Copy Logistics Provider.
    - **NoT** (Type of Partner No.): The partner type is an identifier indicating the kind of partner involved. LI
    - **Unique**: Do not check
    - **Higher-Level Partner Role**: This is an optional field. You can specify the a higher-level role for a given partner role to send a copy to.
6. Save the changes.
7. Go back to the **Display IMG** page.
8. Click the tree structure, **Materials Management** > **Purchasing** > **Partner Determination** > **Define Permissible Partner Roles per Account Group** .
9. Click **New Entries**.
10. Specify the following values:
    - **Funct**: Enter a value for the partner function. For example, YS.
    - **Group**: Enter the account group code. For example, 0001.
    - **Funct**: Enter a value for the partner function. For example, YL.
    - **Group**: Enter the account group code. For example, 0001.
11. Save the changes.

12. Go back to the **Display IMG** page.
13. Click the tree structure, **Materials Management** > **Purchasing** > **Partner Determination** > **Partner Settings in Vendor Master Record** > **Define Partner Schemas**.
14. Select the **Partner Schema** and then double click **Partner Functions in Procedure**.
15. Click **New Entries**. Ensure that you maintain the partner function value that you added in Step 10.
16. Save the changes.
17. Go back to the **Display IMG** page.
18. Click the tree structure, **Materials Management** > **Purchasing** > **Partner Determination** > **Partner Settings in Purchasing Documents** > **Define Partner Schemas**.
19. Select the **Partner Schema** and then double click **Partner Functions in Procedure**.
20. Click **New Entries**. Ensure that you maintain the partner function value that you added in Step 10.
21. Save the changes.

Configuring Implicit Enhancements for Change and Cancel Orders

Context

Configure implicit enhancements so that you can send change or cancel orders to SAP Business Network.

> **Note**
>
> You do not need to configure this implicit enhancement if you are on SAP S/4HANA 2020 FPS0 or later versions.
>
> You can apply the SAP Note 2991801 to use the standard BAdIs in SAP S/4HANA

Procedure

1. Run the transaction code `SE38`.

   The **ABAP Editor: Initial Screen** appears.
2. Enter `LEINMF0Q` for **Program** and click **Display**.
3. Click **Enhance** in the application toolbar.
4. Select **SAPLEINM** from the popup.
5. Click **Edit** > **Enhancement Operations** > **Show Implicit Enhancement Options** to display a line after the `lesen_beleg` form.
6. Right-click the line and select **Enhancement Implementation** > **Create**.
7. Click **Code** on the **Choose Type of Enhancement** popup to display **Select or Create Enhancement Implementation**.
8. Click **Create Enhancement Implementation**.

9. Enter a name and description for the enhancement and press **Enter**.
10. In the package popup, specify your Z or Y package, press **Enter**, and save the package to a transport request.
11. Enter the following include: **INCLUDE ARBCIG_ORDER_REQUEST_LEINMF0Q IF FOUND**.
12. Activate the enhancement and save it.

Implementing a Customer Exit for Purchase Orders

Context

The include `INCLUDE ARBCIG_ORDER_REQUEST_002` is called from the customer exit for outbound purchase orders.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Purchase Order** >.
4. Click **IMG-Activity** for **Implement Customer Exit for Purchase Order**.

   The **Project Management of SAP Enhancements** screen appears.
5. Create a new customer exit. For example, `ZMMIDOC`.
6. Click **Create**.
7. Click **Enhancement Assignments** and then enter the user exit name `MM06E001`.
8. Click **Enter**.
9. Go back and click **Components** and then double-click the enhancement name **EXIT_SAPLEINM_002**.
10. In the new screen that appears, double-click **INCLUDE ZXM06U02** and click **Enter**.
11. Enter the following include: **INCLUDE ARBCIG_ORDER_REQUEST_002 IF FOUND**.
12. Click **Activate**.
13. Go back and click **Components** and then double-click the enhancement name **EXIT_SAPLEINM_011**.
14. In the new screen that appears, double-click **INCLUDE ZXM06U33** and click **Enter**.
15. Enter the following include: **INCLUDE ARBCIG_ORDER_REQUEST_011 IF FOUND**.
16. Click **Activate**.
17. Go back and click **Components** and then double-click the enhancement name **EXIT_SAPLEINM_002**.
18. In the new screen that appears, double-click **INCLUDE ZXM06U02** and click **Enter**.

19. Enter the following include: **INCLUDE ARBCIG_PO_ITEM_LINEDEL_002 IF FOUND**. To view the purchase order with line items deleted in the **ARBCIG_ORDERS** IDoc, ensure that this include precedes the **INCLUDE ARBCIG_ORDER_REQUEST_002 IF FOUND** include.
20. Enter the following include: **INCLUDE ARBCIG_ORDER_REQUEST_002 IF FOUND**.
21. Click **Activate**.
22. Go back and activate the user exit also.

> **Note**
>
> If you get an error, refer to SAP Note 432357.

Maintaining the Parameter to Send Handling Units to SAP Business Network

Prerequisites

Ensure that you define the packaging material type, packaging material group, and assign the material group to the material type in `MM01` in `SPRO`. To do this, go to the transaction code `SPRO` and then go to, **SAP Customizing Implementation Guide** > **Logistics – General** > **Handling Unit Management** > **Basics setting** > **.** >.

Context

Starting SAP Integration Suite, managed gateway release 1.0_September 2019, buyers can configure handling units on the SAP ERP system to include the packaging information with handling units in purchase orders sent to suppliers on SAP Business Network. Additionally, buyers must also maintain the parameter, `HANDLING_UNITS` before sending the packaging information with handling units in purchase orders or subcontracting purchase orders. SAP Ariba requires you to maintain this parameter before you send the handling unit information to SAP Business Network.

Procedure

1. Run the transaction code `SPRO`.

   The Customizing: Execute Project page appears.
2. Click **SAP Reference IMG**.

   The Display IMG page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Purchase Order** > **Maintain Parameters for Purchase Order** > **.** >.

   The **Parameters - Purchase Order** page appears.

4. Maintain the following values:
    - **Variable Name**: Enter **HANDLING_UNITS**.
    - **Field Name**: Leave it blank.
    - **Number**: 0000
    - **Low**: Enter **X** to enable the parameter. When you enable the parameter, suppliers must enter the handling units in the ship notice they send SAP ERP from SAP Business Network.
      If the field is blank, SAP Integration Suite, managed gateway does not require suppliers to send the handling unit information in the ship notice from SAP Business Network.

Controlling Sending Your Accounting Information to the Supplier

Context

Use this activity to control sending your accounting and organization data to the supplier.

Procedure

1. Run the transaction code SPRO.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen opens.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Purchase Order** >.
4. Click **Mapping settings for Purchase Order/SA/SAR Outbound**.

   The **Display View "Further mapping settings for purchase orderoutbound" : O** screen opens.
5. Click **New Entries**.
6. In the table, maintain values for the following fields:
    - **Cocd** - Enter the company code.
    - **Do not Send Account Assignment Data** - Check the checkbox if you do not want to send your accounting data to the supplier.
    - **Do not Send Additional Data for SAP Ariba Invoice Management** - (For customers on SAP Ariba Invoice Management) Check the checkbox if you do not want to send the company code related data to the supplier.
7. Click **Save**.

Converting Dates on Transaction Documents to Plant-Specific Time Zone

Context

Use this activity to convert dates on outbound documents to plant-specific time zone, by enabling the `USE_PLANT_TIMEZONE` parameter.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen opens.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen opens.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **General Settings** > .
4. Click **IMG-Activity** for **Plant Specific Timezone Conversion**.

   The **Parameters - Plant Specific Time Zone Conversion** screen opens.
5. Click **Modify** and maintain the following values for the `USE_PLANT_TIMEZONE` parameter:
   - **Variable Name**: USE_PLANT_TIMEZONE
   - **Field Name**: Leave it blank.
   - **Number**: 0000
   - **Low**: **X** (to enable) or leave it blank (to disable).
6. Click **Save**.

Sending Multiple Text Types to SAP Business Network

Context

To send multiple text types in the comments section of SAP Business Network, you must maintain the text IDs of the text types for `OrderRequest` document type on the **Cross References** tab on the SAP Integration Suite, managed gateway portal.

Procedure

1. Sign in to SAP Integration Suite, managed gateway.
2. Click **Edit** for the project you want to add the cross-reference parameters to.
3. Navigate to the **Cross Reference** step.

   The **Cross Reference Configuration** screen appears.
4. Choose **OrderRequest** from the **Select Document Type** drop down box on the **Parameter** tab and click **Add**.

   The **OrderRequest** document type appears in the list.
5. Click the **Edit** icon to modify the parameter values for the `OrderRequest` document type.

   The following table lists the parameters and the values that you can enter for the `OrderRequest` document type.

Document type	Parameters	Description	Sample values
OrderRequest	PO HeaderTextID	This header level attribute for purchase order configured on your ERP system. The value is available in the `TTXID` table.	F01
	PO LineTextID	This line level attribute for purchase order configured on your ERP system. The value is available in the `TTXID` table.	F01
	PO DefaultLang	To maintain the default language when ERP or AN fail to send language details both for inbound and outbound messages.	en
	HeaderTextID SAR	This header level attribute for schedule agreement release configured on your ERP system. The value is available in the `TTXID` table.	L01
	SA LineTextID SAR	This line level attribute for schedule agreement release configured on your ERP system. The value is available in the `TTXID` table.	L01

6. Click **Save**.

Enabling BRFplus in SAP S/4HANA

Context

By default, SAP S/4HANA on-premise integrated with SAP Business Network through SAP Integration Suite, managed gateway uses the output management via message control (NAST) to configure the output parameters for the various transcation documents. To use BRFplus output management to configure the output parameters for transaction documents, you must enable BRFplus in the SAP S/4HANA on-premise systems.

> **Note**
>
> - You can use BRFplus only for purchase orders and scheduling agreements in the SAP S/4HANA on-premise systems.
> - SAP S/4HANA on-premise does not support BRFplus output management for scheduling agreement release document type. SAP S/4HANA on-premise supports BRFplus output management only for purchase order and scheduling agreement document types.

Procedure

1. Run the transaction code **SPRO**.

   The Customizing: Execute Project page appears.
2. Click **SAP Reference IMG**.

   The Display IMG page appears.
3. Navigate to **Integration with Other SAP Components** > **Business Network Integration** > **Integration with the SAP Business Network** > **Application-specific settings** > **Define Message Output Control** > **Method 2: User SAP S/4HANA-Based Output Management** > **Activate SAP S/4HANA-Based Output Management for Purchasing Documents**.
4. Click the **IMG - Activity** icon for **Activate SAP S/4HANA-Based Output Management for Purchasing Documents**.

   The Change View "Activation of New Output Management for Purchasing Documents": Overview page appears.
5. Select **[02] New output management is active** from the Mode dropdown menu.
6. Save the entry.

Selecting Print-Relevant Fields for Change Purchase Orders Output

Context

This task allows you to select the print-relevant fields that trigger the change purchase orders to SAP Integration Suite, managed gateway when you make any changes to purchase orders in SAP ERP or SAP S/4HANA.

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.

2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Materials Management** > **Purchasing** > **Messages** > **Fields Relevant to Printouts of Changes**.
4. Click **IMG-Activity** for **Fields Relevant to Printouts of Changes**.

   The **Change View "Print-Relevant Purchasing Document Changes": overview** screen appears.

5. Check or uncheck the required print-relevant field for purchase orders in the relevant column for purchase orders.

   Depending on the checked or unchecked print-relevant fields, change purchase orders are sent or not sent to SAP Integration Suite, managed gateway when any changes are made to those print-relevant fields in SAP ERP or SAP S/4HANA.

Blocking Purchase Order Line Items

This feature enables buyers to block line items in purchase orders by configuring the `ItemOut` indicator.

Context

Maintain values in the**`ARBCIG_MSG_ATTRS`** table to enable the feature.

1. Run the transaction code SM30.
2. In the **Table/View** field, enter **`ARBCIG_MSG_ATTRS`** and click **Maintain**.
3. Click **New Entries** and maintain the following values in the **New Entries: Overview of Added Entries** page:

Field	Value
Supplier	Select the supplier.
CoC	Select the company code.
Msg.Type	**PO**
Vndr attr	**BLCK**
Vendor specific attribute values	Maintain one of the following values: • **X**: To enable the feature • A blank value to disable the feature.

Closing Purchase Order Lines

This feature enables buyers to close line items in purchase orders by configuring the `DeliveryCompleted` indicator.

Context

Maintain values in the **`ARBCIG_MSG_ATTRS`** table.

1. Run the transaction code SM30.
2. In the **Table/View** field, enter **`ARBCIG_MSG_ATTRS`** and click **Maintain**.
3. Click **New Entries** and maintain the following values in the **New Entries: Overview of Added Entries** page:

Field	Value
Supplier	Select the supplier.
CoC	Select the company code.
Msg.Type	**PO**
Vndr attr	**CLMTYP**
Vendor specific attribute values	Maintain one of the following values: • **E**: For error or hard validation. • **W**: For warning or soft validation.

Generating Work Order-based Service Orders

Prerequisites

- Ensure that SAP Integration Suite, managed gateway is enabled and SAP Fieldglass is integrated with SAP S/4HANA Cloud Public Edition or SAP S/4HANA Cloud Private Edition through SAP Integration Suite, managed gateway.
- Ensure that you have an SAP Business Network project with a connection that includes the destination SAP S/4HANA system details.

Context

Statements of Work (SOW) from SAP Fieldglass to SAP S/4HANA are repliacted via the managed gateway in the 4R2 integration scenario. The SOW initiated in SAP Fieldglass is replicated as a purchase requisition in SAP

S/4HANA. When the purchase requisition is approved or rejected, a response is sent back to SAP Fieldglass. After the buyer and supplier collaborate on the SOW in SAP Fieldglass, the SOW is replicated as a purchase order in SAP S/4HANA. When the purchase order is approved, the purchase order is sent to SAP Business Network. When the purchase order is rejected, a response is sent back to SAP Fieldglass

Procedure

Set up the cross references for service requisitions and service orders. Please see Setting Up Cross References for Service Requisitions and Service Orders [page 594].

Results

You can use the following details to monitor the transaction in the **Transaction Tracker** of managed gateway. The **Transaction Tracker** provides information such as status of the transaction, document types, and sender and receiver information. For more information on the transaction tracker, refer to Transaction Tracker. For more information on searching for a transaction, refer to How to Specify Search Criteria for Transaction Records.

For Purchase Requisition	Source and Target Document
Request from SAP Fieldglass	`PurchaseRequisitionRequest`
Response from SAP S/4HANA Cloud Public Edition or SAP S/4HANA Cloud Private Edition	`PurchaseRequisitionResponse`

For Purchase Order	Source and Target Document
Request from SAP Fieldglass	`PurchaseOrderRequest`
Response (only error scenarios) from SAP Fieldglass	`PurchaseOrderResponse`

Stock Transport Order

For any prerequisites and limitations of the transaction, read Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide. Integrating stock transport order with SAP Business Network requires the following configurations:

- Creating a Requirement Routine for Stock Transport Order [page 244]

Creating a Requirement Routine for Stock Transport Order

Context

Create a requirement routine to control the the flow of outbound delivery created in reference to a stock transport order and to ensure the delivery notification is sent only to SAP Business Network during post goods issue for Fully Picked Quantity.

Procedure

1. On the **SAP Easy Access** screen, run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **SAP Ariba Supply Chain Collaboration** > **Ship Notice Request**.
4. Click **Create Requirement for Stock Transport Order**.

   The **Maintain: Requirements & Formulas** screen appears.
5. On the **Requirements** menu, click **Output Control**.

   The **Maintain: Requirements Output Control** screen appears.
6. In the **Maintain: Requirements Output Control** screen, navigate to the bottom and do the following:

Option	Description
Routine number	Enter a new or unused routine number. For example, 981.
Description	Enter the description of the new routine number. For example, STO.
Application	Enter **V2**.

7. Press **Enter**.

   The **Register Object** page appears. You must enter the access key on this page.

   > ⓘ Note
   >
   > Ensure that you generate the access key for the routine. To generate the access key, register the object in the SSCR (SAP Software Change Registration) by providing the object name.
8. Enter the access key for the object and click **Continue**.
9. In the **Maintain: Requirements Output Control** page, highlight the row for the routine details that you have just entered, click the routine number, and click **Source text** on the application toolbar.

   The **ABAP Editor: Change Include RV61B<Routine Number>** screen appears.

10. Place the cursor after `FORM KOBED_<Routine number>`, press **Enter** and enter `INCLUDE ARBCIG_STO_REQUIREMENT IF FOUND`.
11. Click **Save**.
12. Click **Program** > **Activate**.

Scheduling Agreement Release

For any prerequisites and limitations of the transaction, read Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide. Integrating scheduling agreement release with SAP Business Network requires the following configurations:

Scheduling Agreement Release Configuration in SAP ERP and SAP S/4HANA [page 245]

Scheduling Agreement Release Configuration in SAP ERP and SAP S/4HANA

The following sections describe the procedures to configure scheduling agreement release in SAP ERP and SAP S/4HANA for integration with SAP Business Network:

Defining Message Output Control for Scheduling Agreement [page 245]

Defining Message Output Control for Scheduling Agreement Release [page 247]

Maintaining Parameters for Scheduling Agreement Release [page 249]

Implementing a Customer Exit for Scheduling Agreement Releases [page 249]

Maintaining Parameters to Support Multiple Line Items in the Scheduling Agreement Release Document [page 250]

Implementing Enhancement for Multiline Scheduling Agreement Release [page 251]

Enabling BRFplus in SAP S/4HANA [page 252]

Defining Message Output Control for Scheduling Agreement

Context

In this customizing activity, you can define how documents that were created or changed in SAP ERP or SAP S/4HANA are transferred to SAP Business Network.

Procedure

1. Run the transaction code SPRO.

The **Customizing: Execute Project** screen appears.

2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Schedule Agreement Release**.
4. Click **IMG-Activity** for **Define Message Output Control for Scheduling Agreement**.

   The **Conditions for Output Control** screen appears.

5. Select application **EV** and click **Output types**.

   The **Display View "Output Types": Overview** screen appears.

6. Click **NEU**, for example, and click **Change**.

   The **Change View "Output Types": Overview** screen appears.

7. Double-click **NEU**, for example.

   The **Change View "Output Types": Details** screen appears.

8. On the **General Data** tab, for **Access sequence** choose an option, for example **0001 DocType/PurchaseOrg/Vendor**.
9. On the **Default values** tab, create an entry as follows:
   - **Dispatch time**: `Send immediately (when saving the application)`
   - **Transmission Medium**: `EDI`
   - **Partner Function**: `LS`
10. Click **Save** and go back to the **Change View "Output Types": Overview** screen.
11. Click **NEU** and double-click **Processing routines**.

    The **Change View "Processing routines": Overview** screen appears.

12. Click **New Entries** and enter the following:
    - **Medium**: `EDI`
    - **Program**: `RSNASTED`
    - **FORM routine**: `EDI_PROCESSING`
13. Click **Save** and go back to the **Change View "Processing routines": Overview** screen.
14. Double-click **Partner Functions** and click **New Entries** to create an entry as follows:
    - **Medium**: `EDI`
    - **Function**: `LS`
    - **Name**: `Logical system`
15. Save the entry and go back to **Conditions for Output Control** screen.
16. Select application **EV** and click **Condition records**.

    The **Output Types** popup appears.

17. Click **NEU**, for example, and then click **Condition records**.

    The **Key Combination** popup appears.

18. Maintain the required key combination for **Purchasing Output Detrmination: Doc.Type/Purch.Org/Vendor**:

- **Purchasing Doc Type**: For example, LP or LPA
- **Purch. Organization**: Enter customer-specific value.

19. Click **Execute**.

    The **Change Condition Records (Outline agreement): Fast Change** screen appears.

20. In the **Condition recs.** section, maintain the following entries:
    - **Vendor**: Enter customer-specific value. For example, 100000
    - **Name**: To be entered by you.
    - **Function**: Enter for example, `LS`.
    - **Partner**: Enter for example, 0000100000
    - **Medium**: Enter for example, `EDI`.
    - **Date/Time**: For example, `Send immediately (when saving the application)`.
    - **Language**: Enter customer-specific value. For example, `EN`.
21. Click **Save**.

Defining Message Output Control for Scheduling Agreement Release

Context

In this customizing activity, you can define how documents that were created or changed in SAP ERP or SAP S/4HANA are transferred to SAP Business Network.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.

2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Schedule Agreement Release**.
4. Click **IMG-Activity** for **Define Message Output Control for Scheduling Agreement Release**.

   The **Conditions for Output Control** screen appears.

5. Select application **EL** and click **Output types**.

   The **Display View "Output Types": Overview** screen appears.

6. Click **LPH1**, for example, and click **Change**.

   The **Change View "Output Types": Overview** screen appears.

7. Double-click **LPH1**, for example.

The **Change View "Output Types": Details** screen appears.

8. On the **General Data** tab, for **Access sequence** choose an option, for example **0001 DocType/PurchaseOrg/Vendor**.
9. On the **Default values** tab, create an entry as follows:
    - **Dispatch time**: `Send immediately (when saving the application)`
    - **Transmission Medium**: `EDI`
    - **Partner Function**: `LS`
10. Click **Save** and go back to the **Change View "Output Types": Overview** screen..
11. Click **LPH1** and then double-click **Processing routines**

    The **Display View "Processing routines": Overview** screen appears.
12. In the **Processing routines** section, create an entry as follows:
    - **Medium**: `EDI`
    - **Program**: `RSNASTED`
    - **FORM routine**: `EDI_PROCESSING`
13. Click **Save** and go back to the **Change View "Processing routines": Overview** screen.
14. Click **LPH1** and then double-click **Partner Functions**.

    The **Change View "Partner functions": Overview** screen appears.
15. In the **Partner Functions** section, create an entry as follows:
    - **Medium**: `EDI`
    - **Function**: `LS`
    - **Name**: `Logical system`
16. Save the entry and go back to **Conditions for Output Control** screen,
17. Select application **EL** and click **Condition records**.

    The **Output Types** popup appears.
18. Click **LPH1**, for example, and then click **Condition records**.

    The **Key Combination** popup appears.
19. Maintain the required key combination for **Purchasing Output Detrmination: Doc.Type/Purch.Org/Vendor**:
    - **Purchasing Doc Type**: For example, LP or LPA.
    - **Purch. Organization**: Enter customer-specific value.
20. Click **Execute**.

    The **"Change Condition Records (ForecastDlv schedule): Fast Change** appears.
21. Maintain the following information:
    - **Vendor**: For example, `100000`.
    - **Function**: For example, `LS`.
    - **Partner**: For example, `ARIBA`.
    - **Medium**: For example, `1`
    - **Date/Time**: For example, `4`
    - **Language**: For example, `DE`
22. Repeat steps 4 through 20 for **LPJ1** (JIT delivery schedule).

Maintaining Parameters for Scheduling Agreement Release

Context

To maintain the parameters required for scheduling agreement release, perform the following steps:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Schedule Agreement Release** > .
4. Click **IMG-Activity** for **Maintain Parameters for Scheduling Agreement Release**.

   The **Parameters - Scheduling Agreement Release** screen appears.
5. Maintain the following parameters:

   Table 9: Parameters for Scheduling Agreement Release

Parameter name	Description	Supported values
SAR_ENABLED	Enable or disable the Ariba provided enhancements for scheduling agreement release.	• **Variable Name**: SAR_ENABLED • **Field Name**: Leave it empty. • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable).

Implementing a Customer Exit for Scheduling Agreement Releases

Context

The function module `ARBCIG_SARELEASE` is called from a customer exit `MM06E001` - this is the user exit for EDI inbound and outbound purchasing documents. You must execute the following steps to implement a customer exit. This function module helps in picking up additional scheduling agreement release details.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Schedule Agreement Release**.
4. Click **IMG-Activity** for **Implement Customer Exit for Scheduling Agreement Releases**.

   The **Project Management of SAP Enhancements** screen appears.
5. Enter **Project** name. For example, ZSAR.
6. Click **Create** and press Enter.
7. Click **Enhancement assignments** and enter **Package** name.
8. Enter the user exit name `MM06E001`. Press Enter.
9. Go back and click **Components** and then double-click the following enhancement names:
   - For Forecast Schedule: **EXIT_SAPLEINM_019 INCLUDE ZXM06U59**
   - For JIT Schedule: **EXIT_SAPLEINM_020 INCLUDE ZXM06U60**
10. In the new screen that appears, double-click the appropriate include indicated in the previous step and click **Enter**.
11. Enter the following include:**INCLUDE ARBCIG_SA_RELEASE_59_60 IF FOUND**.
12. Click **Activate**.
13. Go back and activate the user exit also.

Maintaining Parameters to Support Multiple Line Items in the Scheduling Agreement Release Document

Context

To send multiple line items in a scheduling agreement release document, you must configure the message determination schema for scheduling agreement release.

Procedure

1. Run the transaction code SPRO.

2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Click the tree structure, **Materials Management** > **Purchasing** > **Messages** > **Output Control** > **Message Determination Schemas**.
4. Click **IMG-Activity** for **Define Message Schema for Scheduling Agreement Release/Expediter**.
5. Click **Assign Schema: SA Release/Expediter**.

   The **Change View "Assignment of Message Determination Schemas to Application"** screen appears.
6. Uncheck the **Rel.Msg** checkbox.
7. Click **Save**.

Implementing Enhancement for Multiline Scheduling Agreement Release

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Schedule Agreement Release**.
4. Click **IMG-Activity** for **Implement Implicite Enhancement for Multiline SAR**.

   The **Report Builder: Initial Screen** screen appears.
5. In the **Program** text box, enter `LEINMF4I` and click **Display**.
6. On the application toolbar, click **Enhance**.
7. Place the cursor on the **ENHANCEMENT-SECTION** statement and right-click.
8. Click on **Enhancement Operations** > **Create Implementation**.
9. Enter a name and description for the enhancement and press Enter.
10. In the package popup, specify your Z or Y package, press Enter, and save the package to a transport request.
11. Paste the following code: `INCLUDE ARBCIG_ADD_SAR_SCHED`.
12. Activate the enhancement.

Enabling BRFplus in SAP S/4HANA

Context

By default, SAP S/4HANA on-premise integrated with SAP Business Network through SAP Integration Suite, managed gateway uses the output management via message control (NAST) to configure the output parameters for the various transcation documents. To use BRFplus output management to configure the output parameters for transaction documents, you must enable BRFplus in the SAP S/4HANA on-premise systems.

> **Note**
>
> - You can use BRFplus only for purchase orders and scheduling agreements in the SAP S/4HANA on-premise systems.
> - SAP S/4HANA on-premise does not support BRFplus output management for scheduling agreement release document type. SAP S/4HANA on-premise supports BRFplus output management only for purchase order and scheduling agreement document types.

Procedure

1. Run the transaction code **SPRO**.

   The Customizing: Execute Project page appears.
2. Click **SAP Reference IMG**.

   The Display IMG page appears.
3. Navigate to **Integration with Other SAP Components** > **Business Network Integration** > **Integration with the SAP Business Network** > **Application-specific settings** > **Define Message Output Control** > **Method 2: User SAP S/4HANA-Based Output Management** > **Activate SAP S/4HANA-Based Output Management for Purchasing Documents**.
4. Click the **IMG - Activity** icon for **Activate SAP S/4HANA-Based Output Management for Purchasing Documents**.

   The Change View "Activation of New Output Management for Purchasing Documents": Overview page appears.
5. Select **[02] New output management is active** from the Mode dropdown menu.
6. Save the entry.

Receipt Request

For any prerequisites and limitations of the transaction, read Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide.

Receipt Request Configuration in SAP ERP and SAP S/4HANA [page 253]

Receipt Request Configuration in SAP ERP and SAP S/4HANA

The following sections describe the procedures to configure receipt request in SAP ERP and SAP S/4HANA for integration with SAP Business Network:

Defining Message Output Control for Returns and Corrections [page 253]

Maintaining Parameters for Receipt Requests on SAP Integration Suite, Managed Gateway SP 0001 Version [page 255]

Maintaining Parameters for Receipt Requests on SAP Integration Suite, Managed Gateway SP 0002 and Above Versions [page 256]

Activating the Collective Slip for Goods Receipt [page 257]

Maintaining Printer Default yalues for Returns and Corrections in Receipts [page 258]

Defining Message Output Control for Returns and Corrections

Context

In this customizing activity, you can define how documents that have been created or changed in SAP ERP or SAP S/4HANA are transferred to SAP Business Network.

Prerequisite

- Ensure that the output type `WE03` is available.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Receipt Request** >.
4. Click **IMG-Activity** for **Define Message Output Control for Returns and Corrections**.

   The **Conditions for Output Control** screen appears.
5. Click **ME** as the application type and click **Output Types**.

   The **Display View "Output Types": Overview** screen appears.

6. Switch to **Change** and double-click the output type: **WE03**.

   The **Change View "Output Types": Details** screen appears.
7. On the **General Data** tab, for **Access sequence** choose **0003 Trans.Type/Print Vers./Indic.**.
8. Click the tab **Default Values** and retain the following values in the tab:
   - **Despatch time:** 4 Send immediately (when saving the application)
   - **Transmission Medium:** 8 Special function
   - **Partner function:** LS
9. Save the entries and go back to the main screen.
10. From the main screen, choose **ME Inventory Management** and click **Output Types**.

    The **Display View "Output Types": Overview** screen appears.
11. Choose **WE03** and double-click **Processing routines** and enter the following values:
    - **Program**: ARBCIG_RECEIPT_PUBLISH
    - **FORM routine**: SEND_GOODSRECIPT_SAVED
12. Press **Enter**.
13. Save the entry.
14. Click **ME** as the application type and then click **Condition records**.
15. Double-click the **output type: WE03**.

    The **Change GR Note Vers.3 (WE03): Selection** screen appears.
16. Enter the following information:
    - **Trans./Event Type**: WE
    - **Print Version**: 3
    - **Print Item**: 1
17. Click **Execute**.

    The **Change Condition Records (GR Note Vers.3): Fast Change** screen appears.
18. Maintain the following parameters for the partner function:
    - **Print item**: Indicates whether a material document item can be printed with a certain movement type. The indicator also determines the type of GR or GI slip that is printed. For example, 3.
    - **Function**: The abbreviated form of the name that identifies the partner function. For example, LS.
    - **Partner**: The recipient of the output from the master record for the specified partner function. For example, 1000.
    - **Medium**: Specifies how the output will be produced. For example, 8 Special function or 1 Print output.
    - **Date/Time**: Specify the option to indicate the time when the message can be processed. For example, 4. To process the message later, you must use the report program RSNAST00 or a corresponding application function.
    - **Language**: Specify the language to display texts, enter texts, and print documents. For example, DE.
19. Select ME and click **Procedures**.
20. Select ME0001 and double-click **Control**.
21. Click **New Entries** and enter the following:
    - **Step**: For example, **10**
    - **Counter**: For example, **10**

- CTyp: `WE03`
- Requirement:
  1. `171` for individual slips or
  2. `173` for collective slips

22. Click **Save**.
23. Provide the Transport Request number if the application prompts for it.

Maintaining Parameters for Receipt Requests on SAP Integration Suite, Managed Gateway SP 0001 Version

Context

If you are on SAP Integration Suite, managed gateway SP 0001 version, perform the following steps to maintain the parameters required for receipt request:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Receipt Request** >.
4. Click **IMG-Activity** for **Maintain Parameters for Receipt Request**.

   The **Parameters - Receipt Request** screen appears.
5. Maintain the following parameters:

Table 10: Parameters for receipt request

Parameter name	Description	Supported Values
GOODSRECEIPT	Specify a movement type, for example one of the following : `101`, `103`, `104`. To specify another movement type, create the same variable and field name in another row and increment the Number value to `2`. For example, you currently have the value as `101`. To create the `103` movement type, create another row containing the same values, but increment the Number value to `2`.	• **Variable Name**: GOODSRECEIPT • **Field Name**: RECEIPT_MVT • **Number**: 0000 • **Low**: 101, 103, 104, for example
GOODSRECEIPT	Can be left blank or provide a movement type, for example `102`.	• **Variable Name**: GOODSRECEIPT • **Field Name**: RECEIPT_MVT_REVERSAL • **Number**: 0000 • **Low**: 102, for example.
GOODSRECEIPT	Specify a movement type, for example one of the following : `122`, `124`, or `161`, or can be left blank. To specify another movement type, create the same variable and field name in another row and increment the **Number** value to `2`. For example, you currently have the **Selection Value** as `122`. To create the movement type `124`, create another row containing the same values, but increment the **Number** value to `2`.	• **Variable Name**: GOODSRECEIPT • **Field Name**: RETURN_MVT • **Number**: 0000 • **Low**: 122, 124, 161, for example.
GOODSRECEIPT	Can be left blank or provide a movement type, for example `123`.	• **Variable Name**: GOODSRECEIPT • **Field Name**: RETURN_MVT_REVERSAL • **Number**: 0001 • **Low**: 123, for example.

Maintaining Parameters for Receipt Requests on SAP Integration Suite, Managed Gateway SP 0002 and Above Versions

Context

If you are on SAP Integration Suite, managed gateway SP 0002 or above version, perform the following steps to maintain the parameters required for receipt request:

> ⓘ Note
>
> If you have upgraded from SP 0001 version and use this program to maintain the parameters, the new configuration would take precedence over any existing parameter configuration.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Receipt Request** >.
4. Click **IMG-Activity** for **Maintain Parameters for Receipt Request**.

   The **Information** screen appears.
5. Click **Continue**

   The **Change View "Allowed ReceiptRequest Messages": Overview** screen appears.
6. Click **New Entries**.
7. Maintain the **Movement Type** and the **Stock Type**.

   For example, 101 movement type with unrestricted stock.
8. Click **Save**.

   The **Prompt for Customizing Request** screen appears.
9. Provide the transport number for the request in the **Request** field and click **Continue**.

Activating the Collective Slip for Goods Receipt

Context

A collective slip contain details of all the items in the material document. You can configure the parameters to activate the collective slip for goods receipt that you wish to send to suppliers.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Receipt Request** >.

4. Click **IMG-Activity** for **Configure User Profile Parameters to Activate Collective Slip after Receipt**.

   The **Maintain User Profile** screen appears.
5. In the **Parameters** tab, maintain the following values:
   - **Set/Get parameter ID**: NDR
   - **Parameter value**: X
   - **Short Description**: Print via output control in MM-Inventory management.
6. Save the changes.

Maintaining Printer Default yalues for Returns and Corrections in Receipts

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Receipt Request** >.
4. Click **IMG-Activity** for **Maintain Printer Default Values for Returns and Corrections in Receipts**.

   The **Change View "Print Parameters": Overview** screen appears.
5. Click **New Entries**.

   The **New Entries: Details of Added Entries** screen appears.
6. Enter the following values:
   - **Condition Type**: WE03
   - **Plant**: For example, 001
   - **Stor. Location**: For example, 001
   - **OutputDevice**: Select the printer of your location.
   - **Print immediately**: (Optional) Check the checkbox for the option.

Order Enquiry

For any prerequisites and limitations of the transaction, read Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide.

Order Enquiry Configuration in SAP ERP and SAP S/4HANA [page 259]

Order Enquiry Configuration in SAP ERP and SAP S/4HANA

The following sections describe the procedures to configure order enquiry in SAP ERP and SAP S/4HANA for integration with SAP Business Network:

Defining Message Output Control for Order Enquiry [page 259]

Maintaining Parameters for Order Enquiry [page 261]

Implementing a Customer Exit for Order Enquiry [page 263]

Defining Message Output Control for Order Enquiry

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Order Enquiry**.
4. Click **IMG-Activity** for **Define Message Output Control for Order Enquiry**.

   The **Conditions for Output Control** screen appears.
5. Select application **EF** and click **Output types**.

   The **Display View "Output Types": Overview** screen appears.
6. Switch to **Change** and double-click **MAHN (Dunning)**, for example.

   The **Change View "Output Types": Details** screen appears.
7. On the **General Data** tab, enter the following:
   - **Access sequence**: Choose an option, for example **0001 DocType/PurchaseOrg/Vendor**.
   - **Multiple issuing**: Check the checkbox.
8. On the **Default values** tab, create an entry as follows:
   - **Dispatch time**: `Send immediately (when saving the application)`
   - **Transmission Medium**: `EDI`
   - **Partner Function**: `LS`
9. Click **Save** and return to the **Conditions for Output Control** screen.
10. Select application **EF** and click **Condition records**.

    The **Output Types** popup appears.
11. Click **MAHN**, for example, and then click **Condition records**.

    The **Key Combination** popup appears.

12. Select **Purchasing Output Determination: Purch.Org/Vendor for EDI**.

    The **Change Dunning (MAHN): Selection** screen appears.
13. Maintain the **Purchase Organization** detail.
14. Click **Execute**.

    The **Change Condition Records (Dunning): Fast Change** screen appears.
15. In the **Condition recs.** section, maintain the following entries:
    - **Vendor**: Enter customer-specific value. For example, `100000`
    - **Name**: To be entered by you.
    - **Function**: Enter for example, `LS`.
    - **Partner**: Enter for example, `ARIBA`
    - **Medium**: Enter for example, `EDI`.
    - **Date/Time**: For example, `Send immediately (when saving the application)`.
    - **Language**: Enter customer-specific value. For example, `EN`.
16. Click **Save** and return to the **Conditions for Output Control** screen.
17. Select application **EF** and click **Output types**.

    The **Display View "Output Types": Overview** screen appears.Output types
18. Switch to **Change** and double-click **AUFB (Dunning ord confirm)**, for example.

    The **Change View "Output Types": Details** screen appears.
19. On the **General Data** tab, enter the following:
    - **Access sequence**: Choose an option, for example **0001 DocType/PurchaseOrg/Vendor**.
    - **Multiple issuing**: Check the checkbox.
20. On the **Default values** tab, create an entry as follows:
    - **Dispatch time**: `Send immediately (when saving the application)`
    - **Transmission Medium**: `EDI`
    - **Partner Function**: `LS`
21. Click **Save** and return to the **Conditions for Output Control** screen.
22. Select application **EF** and click **Condition records**.

    The **Output Types** popup appears.
23. Click **AUFB**, for example, and then click **Condition records**.

    The **Key Combination** popup appears.
24. Select **Purchasing Output Determination: Purch.Org/Vendor for EDI**.

    The **Change Dunning ord conf (AUFB): Selection** screen appears.
25. Maintain the **Purchase Organization** detail.
26. Click **Execute**.

    The **Change Condition Records (Dunning ord confirm): Fast Change** screen appears.
27. In the **Condition recs.** section, maintain the following entries:
    - **Vendor**: Enter customer-specific value. For example, 100000
    - **Name**: To be entered by you.
    - **Function**: Enter for example, `LS`.

- **Partner**: Enter for example, `ARIBA`
- **Medium**: Enter for example, `EDI`.
- **Date/Time**: For example, `Send immediately (when saving the application)`.
- **Language**: Enter customer-specific value. For example, `EN`.

Maintaining Parameters for Order Enquiry

Context

To maintain the parameters required for order enquiry, perform the following steps:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Order Enquiry**.
4. Click **IMG-Activity** for **Maintain Parameters for Order Enquiry**.

   The **Parameters - Order Enquiry** screen appears.
5. Maintain the following parameters:

   Table 11: Parameters for order enquiry

Parameter name	Description	Supported Values
ORDERENQUIRY_ENABLED	Enable or disable the Ariba provided enhancements for order enquiry.	• **Variable Name**: ORDERENQUIRY_ENABLED • **Field Name**: Leave it empty. • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable).

Parameter name	Description	Supported Values
ORDERENQUIRY	To send a reminder, with custom reminder text, to supplier seeking the order status. For example, delivery date in the purchase order is 10.07.2017 and the reminders are: • Reminder 1 - 2 days • Reminder 2 - 3 days • Reminder 3 - 4 days • If the supplier does not acknowledge the order until 12.07.2017 (10.07.2017 + 2 days), then the first reminder is sent to the supplier asking for the status • If the supplier does not acknowledge the order until 15.07.2017 (10.07.2017 + 5 days), then the second reminder is sent to the supplier asking for the status. • If the supplier does not acknowledge the order until 19.07.2017 (19.07.2017 + 9 days), then the third reminder is sent to the supplier asking for the status. To send the reminder text for each reminder: 1. Run the transaction code **SO10**. 2. Specify a **Text Name** of your choice. For example, **ZMM_DUNNING1**. 3. Specify **Text ID** as ST. 4. Specify **Language** of your choice. 5. Click **Create**. The **Change Standard Text** window appears 6. Enter the custom reminder text and save.	• **Variable Name**: ORDERENQUIRY • **Field Name**: DUNNING1 • **Number**: 0000 • **Low**: The text name specified in so10. For example, `ZMM_DUNNING1` • **Variable Name**: ORDERENQUIRY • **Field Name**: DUNNING2 • **Number**: 0000 • **Low**: The text name specified in so10. For example, `ZMM_DUNNING2` • **Variable Name**: ORDERENQUIRY • **Field Name**: DUNNING3 • **Number**: 0000 • **Low**: The text name specified in so10. For example, `ZMM_DUNNING3`

Parameter name	Description	Supported Values
ORDERENQUIRY	To send reminders based on the Confirmation Control key and Confirmation Control category maintained for the purchase order. To create a reminder for the purchase order, 1. Run the transaction code **SPRO** and navigate to **Material Management** > **Purchasing** > **Confirmations** > **Set Up Confirmation Control** 2. Specify the category for the Confirmation Control key 3. Enter the required value in the field **Monitoring Period for Confirmation** and choose the required option from the dropdown of the field **Reference Date for Vendor Confirmation Monitoring Period** 4. Create a purchase order and specify the Confirmation Control key	• **Variable Name**: ORDERENQUIRY • **Field Name**: PURCHASE_CONF_CATEGORY • **Number**: 0000 • **Low**: For example, **AB**.
ORDERENQUIRY	To send the reminder text for PURCHASE_CONF_CATEGORY: 1. Run the transaction code **SO10**. 2. Enter a **Text Name** of your choice. For example, **ZMM_DUNNING_OC**. 3. Specify **Text ID** as **ST**. 4. Specify **Language** of your choice. The **Change Standard Text** window appears 5. Click **Create**. 6. Enter the custom reminder text and save.	• **Variable Name**: ORDERENQUIRY • **Field Name**: DUNNING_OC • **Number**: 0000 • **Low**: The text name specified in so10. For example, ZMM_DUNNING_OC

Implementing a Customer Exit for Order Enquiry

Context

The function module ARBCIG_ORDER_ENQUIRY is called from a customer exit MM06E001 - this is the user exits for EDI inbound and outbound purchasing documents. You are required to execute the following steps to implement a customer exit. This function module helps in picking up order enquiry details.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Order Enquiry**.
4. Click **IMG-Activity** for **Implement Customer Exit for Order Enquiry**.

   The **Project Management of SAP Enhancements** screen appears.
5. Enter **Project** name. For example, `ZOR`.
6. Click **Create** and press Enter.
7. Click **Enhancement assignments** and enter **Package** name.
8. Enter the user exit name `MM06E001`. Press Enter.
9. Go back and click **Components** and then double-click the enhancement EXIT_SAPLEINM_002.
10. In the new screen that appears, double-click the INCLUDE ZXM06U02 and click **Enter**.
11. Enter the following include:**INCLUDE ARBCIG_ORDER_ENQUIRY IF FOUND**.
12. Click **Activate**.
13. Go back and activate the user exit also.

ERP-Initiated Invoice

For any prerequisites and limitations of the transaction, read Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide.

ERP-Initiated Invoice Configuration in SAP ERP and SAP S/4HANA [page 264]

ERP-Initiated Invoice Configuration in SAP ERP and SAP S/4HANA

The following sections describe the procedures to configure ERP-initiated invoices in SAP ERP and SAP S/4HANA for integration with SAP Business Network. You can configure an MM-based or FI-based ERP-initiated invoice, or both.

Enabling SAP ERP-Initiated Invoices on the Buyer's SAP ERP [page 265]

Maintaining Parameters for ERP-Initiated Invoice [page 265]

Mapping SAP Tax Codes to Tax Categories [page 266]

MM-Based ERP-Initiated Invoice Configuration [page 268]

FI-Based ERP-Initiated Invoice Configuration [page 273]

Enabling SAP ERP-Initiated Invoices on the Buyer's SAP ERP

Context

To use the SAP ERP-initiated invoices, you must first enable the evaluated receipt settlement (ERS) invoices on your SAP ERP system.

Procedure

1. On the **SAP Easy Access** screen, run the transaction code `xk02` or `mk02`.

   The **Change Vendor: Initial Screen** appears.
2. Under **Purchasing organization data**, check **Purchasing data** and click **Enter**.

   The **Change Vendor: Purchasing data** page appears.
3. Under **Control Data**, check **AutoEvalGRSetmt.Del.** and click **Enter**.

   The data is saved in SAP ERP.

Maintaining Parameters for ERP-Initiated Invoice

Context

To maintain the parameters required for ERP-initiated invoice, perform the following steps:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **ERP-Initiated Invoice**.
4. Click **IMG-Activity** for **Maintain Parameters for ERP-Initiated Invoice**.

   The **Parameters - ERP Initiated Invoice** screen appears.
5. Maintain the following parameters:

Table 12: Parameters for ERP-initiated invoice

Parameter name	Description	Supported values
INVOICE_OUTPUT_TYP	Stores the output type configured for MR application in NACE. If you maintain this parameter with the output type, then the ERP-initiated invoice function module generates GSVERF Idocs. If you do not maintain this parameter, then the ERP-initiated invoice function module uses the default output type as 'ERS' and generates GSVERF Idoc.	• **Variable Name**:INVOICE_OUTPUT_TYP • **Field Name**: Leave it empty. • **Number**: 0000 • **Low**: Enter low value
INVOICE_DOC_OPTION	To send the XBLNR – reference document number as the Invoice ID to SAP Business Network.	• **Variable Name**: INVOICE_DOC_OPTION • **Field Name**: Leave it empty. • **Number**: 0000 • **Low**: Enter low value
ERPCC_MM_INVOICE_ENABLED	Enable or disable the Ariba provided enhancements for MM invoices.	• **Variable Name**: ERPCC_MM_INVOICE_ENABLED • **Field Name**: Leave it empty. • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable).
ERPCC_CONS_INVOICE_ENABLED	Enable or disable the Ariba provided enhancements for invoices. This is for consignment invoice and a collaborative supply chain feature.	• **Variable Name**: ERPCC_CONS_INVOICE_ENABLED • **Field Name**: Leave it empty. • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable).

Mapping SAP Tax Codes to Tax Categories

Context

Maintain the tax code for a single tax category or a tax code with more than one tax category in the `ARBCIG_TAXCATMAP` table. When a tax code has more than one tax category, you are also required to maintain the tax code, tax jurisdiction code, and transaction key for each of the different tax categories. This is required to process tax for ERP-intiated invoices and payment proposals with additional tax information.

Run the transaction code FTXP to view the system settings for the tax code, tax jurisdiction, and transaction key. Ensure that the tax values you maintain in the ARBCIG_TAXCATMAP table is the same as available in the transaction code FTXP.

> **Note**
>
> In this configuration task, you maintain the data in the ARBCIG_TAXCATMAP table. To use this table in a new SAP system landscape, you must transfer the data using a transport.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **ERP-Initiated Invoice**.
4. Click **IMG-Activity** for **Map SAP Tax Codes to Tax Categories**.

   The **Change View "Ariba Tax code to Tax Category Map": Overview** screen appears.
5. Maintain the following values in the ARBCIG_TAXCATMAP table. Do one of the following:

   - If you want to maintain the tax code for a single tax category, specify the following values:
     - **Tax Code**: Enter the tax code for the tax category. For example, IJ.
     - **Description**: Enter the tax category for the tax code. For example, pst, gst.
   - If you want to maintain the tax code for more than one tax category, specify the following values:
     - **Tax Code**: Enter the tax code. For example, IJ.
     - **Tax Jurisdiction**: Enter the tax location. For example, CABC.
     - **Trs**: Enter the transaction key associated to the tax code and jurisdiction. For example, MW2.
     - **Vendor**: Enter the code for the vendor. For example, 100000.
     - **Country Code**: Enter the country/region code. For example, DE.
     - **Description**: Enter the tax category for the tax code. For example, pst, gst.

     > **Note**
     >
     > Ensure that you enter the value in the **Description** field in the lower case. SAP Business Network cannot process tax categories in the upper case.

Related Information

Implementing the Customer Exit for FI Invoice [page 277]

MM-Based ERP-Initiated Invoice Configuration

Defining Message Output Control for ERS Invoice and Invoicing Plan

Context

In this customizing activity, you can define how documents that were created or changed in SAP ERP or SAP S/4HANA are transferred to SAP Business Network.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **ERP-Initiated Invoice** > **MM-Based ERP-Initiated Invoice** .
4. Click **IMG-Activity** for **Define Message Output Control for ERS Invoice and Invoicing Plan**.

   The **Conditions for Output Control** screen appears.
5. Select application **MR** and click **Output types**.

   The **Display View "Output Types": Overview** screen appears.
6. Click **Change** and then double-click **ERS**.

   The **Change View "Output Types": Overview** screen appears.
7. On the **General Data** tab, for **Access sequence** choose **0002 CCode+Vend, CCode**.
8. On the **Default values** tab, create an entry as follows:
   - **Dispatch time**: `Send immediately (when saving the application)`
   - **Transmission Medium**: `EDI`
   - **Partner Function**: `LS`
9. Click **ERS** and then double-click **Processing routines**

   The **Display View "Processing routines": Overview** screen appears.
10. In the **Processing routines** section, create an entry as follows:
    - **Transmission Medium**: `EDI`
    - **Program**: `RSNASTED`
    - **FORM routine**: `EDI_PROCESSING`

- Save the entry.

11. Click **ERS** and then double-click **Partner Functions**.

    The **Display View "Partner functions": Overview** screen appears.

12. In the **Partner Functions** section, create an entry as follows:
    - **Medium**: `EDI`
    - **Function**: `LS`
    - **Name**: `Logical system`
13. Save the entry.
14. Select application **MR** and then click **Condition records**.

    The **Output Types** popup appears.

15. Click **ERS** and then click **Condition records**.

    The **Key Combination** popup appears.

16. Maintain the required key combination for **CoCode, Vendor**.
    - **Company Code**:
    - **Vendor**:
17. Click **Execute**.
18. Repeat steps 4 through 17 for **INS** and **KON6** (for customers who want to user consignment settlement).

    > ⓘ Note
    >
    > In step 7, for **Access sequence** for **INS** and **KON6**, choose **0004 Comp. Code+Invoicing Party, CC**.

19. Maintain information such as vendor id, vendor name, function, partner, medium, date, and language.
20. Click **INS** and click **Condition records**.

    The **Key Combination** popup appears.

21. Maintain the required key combination for **CoCode, Invoicing**.
    - **Company Code**:
    - **Invoicing Party**:
22. Click **Execute**.
23. Maintain information such as invoicing party, function, partner, medium, date, and language.
24. Click **KON6** and click **Condition records**.

    The **Key Combination** popup appears.

25. Maintain the required key combination for **CoCode, Invoicing**.
    - **Company Code**:
    - **Invoicing Party**:
26. Click **Execute**.
27. Maintain information such as invoicing party, function, partner, medium, date, and language.

Implementing the Customer Exit for MM Invoices

Context

Implement customer exits to make specific integration requirements to the transmission of MM invoices.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **ERP-Initiated Invoice** > **MM-Based ERP-Initiated Invoice**.
4. Click **IMG-Activity** for **Implement the Customer Exit for MM Invoices**.

   The **Project Management of SAP Enhancements** screen appears.
5. Enter a name in the **Project** field. For example, **`ZSUSMM1`** and click **Create**.
6. Enter a description in the **Short Text** field.
7. Click **Enhancement assignments**.

   The **Create Object Directory Entry** screen appears.
8. Enter the following values:
   - **Object**: `R3IR CMOD ZSUSMM1`
   - **Package**: Enter a name.
9. Save the changes.
10. Enter **`MRMN0001`** in the **Enhancement** text box and then click **Enter**.
11. Click **Components**.
12. Double-click **EXIT_SAPLMRMN_001**.
13. Double-click **INCLUDE ZXMRNU01** in the **Function Builder: Display EXIT_SAPLMRMN_001** page.
14. Enter the following include:

    ```
    INCLUDE ARBCIG_INCL_INVOICE_GET_DETAIL IF FOUND
    ```
15. Save the entries.
16. Click the **Activate** button to go back to the **CMOD** screen.
17. Activate the customer exit in the **CMOD** screen.
18. Save the entries.

Maintaining Requirements for Logistic Invoices

Context

Configure the NACE setting to send the MIRO invoices using the IDOC.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **ERP-Initiated Invoice** > **MM-Based ERP-Initiated Invoice**.
4. Click **IMG-Activity** for **Maintain Requirements for Logistic Invoices**.

   The **Conditions for Output Control** screen appears.
5. Select application **MR** and then click **Procedures**.

   The **Change View "Procedures": Overview** page appears.
6. Click **MR0002** procedure in the **Procedures** table and then double-click the **Control** folder dialog structure.
7. Add the following sample entries in the **Reference Step Overview** section on the **Change View “Control”: Overview** page:

   - **Step**: `40`
   - **Counter**: `0`
   - **CTyp**: ERS
   - **Description**: `ERS Procedure`
   - **Requirement**: Maintain as per your requirement

Implementing Routines to Prevent Creation of Duplicate MM IDocs

Context

The SAP Integration Suite, managed gateway, add-on for SAP ERP and SAP Integration Suite, managed gateway, add-on for SAP S/4HANA create an FI IDoc each time an FI invoice is created on SAP ERP or SAP S/4HANA. In some cases, the MM invoices have duplicate IDocs. To restrict the creation of duplicate MM IDocs, you are required to implement a routine.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **ERP-Initiated Invoice** > **MM-Based ERP-Initiated Invoice** .
4. Click **IMG-Activity** for **Implement Routines to Prevent Creation of Duplicate MM IDocs**.

   The **Maintain: Requirements & Formulas** screen appears.
5. On the **Requirements** menu, click **Output control**.
6. Scroll to the end and go to the routine number field.
7. Enter any routing number starting with `9`. For example, `904`. Customer routines start with the number `9`.
8. In the **Application** field, enter `MR` and press **Enter**.

   The **Register Object** page appears where you must enter the access key.
9. Ensure that you generate the access key for the routine to enable you to write add the ABAP code. To generate the access key, register the object in the SSCR (SAP Software Change Registration) by providing the object name.
10. Enter the access key for the object.
11. Click **Continue**.
12. Click the routine number in the **Maintain: Requirements Output control** page and then click the **Source text** button on the application toolbar.
13. Press **Enter**.

    A new ABAP editor page appears.
14. Copy and paste the following code in the `FORM KOBEV_<Routine Number>`:

    Source Code

    ```
    DATA: lv_subrc TYPE subrc.
     cl_arbcig_invoice_get_details=>restrict_duplicate_idocs(
        EXPORTING
          t683s   = t683s
          komkbmr = komkbmr
        CHANGING
          xnast   = xnast[]
          cs_subrc = lv_subrc ).
      IF lv_subrc IS NOT INITIAL.
        sy-subrc = lv_subrc.
      ENDIF.
    ```
15. Save the changes and click the **Activate** button.
16. Click the **Back** button to go back and choose the routine number on the **Maintain: Requirements Output control** page.
17. On the **Edit** menu, click **Activate** to activate the routine.

18. Run the transaction code `NACE`.

    The **Conditions for Output Control** screen appears.
19. Select `MR` and click **Procedures**.

    The **Change View "Procedures": Overview** screen appears.
20. Select `MR0004` and double-click on **Control**.
21. Click **New Entries** and enter the following:
    - **Step**: For example, **`20`**
    - **Counter**: For example, **`0`**
    - **CTyp**: For example, **`ERS`**
    - **Requirement**: Enter if required. For example, **`904`**
22. Click **Save**.
23. Perform any one of the following steps:
    a. Run report **`RV80HGEN`** in target system to activate and register VOFM form routine changes or
    b. Add the following program manually in the transport to run automatically in all target system when transport is moved:

    - **Program ID**R3TR
    - **Program type**XPRA
    - **Object Name**RV80HGEN

FI-Based ERP-Initiated Invoice Configuration

Maintaining the Global Company Code

Context

Global company code is required to generate IDOC for FI documents created in SAP ECC system.

Perform the following steps to to maintain global company codes:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **ERP-Initiated Invoice** > **FI-Based ERP-Initiated Invoice** .
4. Click **IMG-Activity** for **Maintain the global company code**.

   The **Change View "Cross-System Company Codes": Overview** screen appears.
5. Click **New Entries**.
6. Enter the **Global Company Code**.
7. Click **Save**.

Assigning Global Company Code to SAP Company Code

Context

In this customizing activity, you can define how to maintain global company codes.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **ERP-Initiated Invoice** > **FI-Based ERP-Initiated Invoice** .
4. Click **IMG-Activity** for **Assign global company code to SAP company code**.

   The **Change View "Assign company code -> Cross-system company code": Overv** screen appears.
5. In the **CoCd** field, identify the SAP company code for which you want to assign the global company code. In the **Global CoCde** field against the **CoCd** field, enter the global company code.
6. Click **Save**.

Configuring FI Invoice

Context

If the FI invoices are getting cleared automatically, please refer to Question 6 of the SAP Note 114814 - *ALE FIDCCP01/02: Questions and problems with FI distribution Note*.

> **Note**
>
> Buyers must ensure that they do not enable Non-PO (FI) invoice configuration if they are using withholding tax.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **ERP-Initiated Invoice** > **FI-Based ERP-Initiated Invoice** .
4. Click **IMG-Activity** for **Configure FI Invoice**.

   The **Display Distribution Model** screen appears.
5. Click **Edit** and then click **Create Model View**.

   The **Create Model View** screen appears.
6. Enter the following values in the **Create Model View** screen:
   - **Short text**: Enter a description.
   - **Technical name**: Enter a technical name. For example, `ZFI`.
   - **Start date**: Specify the start date.
   - **End Date**: Specify the end date.
7. Click **Add Message Type**.
8. Add the **FIDCC2** message type and specify the sender and receiver system information.
9. Click **Save**.
10. Run the transaction code `BD82` to generate the partner profile for the FI transaction. Enter the following details:
    - **Model View**: `ZFI`
    - **Partner System**: Enter the receiver logical system name.
    - **Pack. Size**: For example, `100 IDocs`.
11. Click the **Transfer IDoc immediately** option in the **Output Mode** section.
12. Click the **Trigger Immediately** option in the **Inb. Parameter** section.
13. Click **Execute**.

    This task creates the `FIDCC2` and the `SYNCH` Message types as the Outbound Parameters at the logical system profile.

Setting Document Type Filters for FI Invoices

Context

Maintain filters for FI invoices based on the document types. These filters can also be used to process purchase orders that do not have specific document types.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **ERP-Initiated Invoice** > **FI-Based ERP-Initiated Invoice** .
4. Click **IMG-Activity** for **Set Document Type Filters for FI invoices**.

   The **Maintain Table Views: Initial Screen** screen appears.
5. Enter **FIDCC2** in the **Message Type** field and press **Enter**.
6. Click **New Entries**.

   The **New Entries: Overview of Added Entries** page appears.
7. Add the following segment types if not already available. Enter an object name in the **ALE Object Type** field for each of the following segment types:

ALE Object	Segm. Type	No.	Field	Offset	IntLength
Enter a name for the ALE object type. For example, BLART.	E1FIKPF	1	BLART	20	2
Enter a name for the ALE object. For example, BUKRS.	E1FIKPF	1	BUKRS	0	6
Enter a name for the ALE object. For example, ZXREF1_HD.	E1FIKPF	1	XREF1_HD	378	20

8. Save the entries.
9. Go to Transaction BD95.
10. Click **New Entries**.

The **New Entries: Overview of Added Entries** page appears.

11. Add the following entries if not already available:

ALE Object	Table Name	Field Name
Enter the name of the ALE object type. For example, BLART.	BKPF	BLART
Enter the name of the ALE object type. For example, BUKRS.	T001	BUKRS_GLOB
Enter the name of the ALE object type. For example, ZXREF1_HD.	BKPF	XREF1_HD

12. Save the entries.
13. Go to Transaction BD64.
14. Click **Edit** and go to the model view **ZFI**. Click to expand it.
15. Double-click the **Data filter** node.
16. Click **Create Filter Group**. The Filter group displays the **Global CoCde**, **Ref.key (header) 1**, and **Document Type** filter fields.
17. Double-click **Global CoCde**.
18. Click the **Add** button and add the global company codes for which the IDOC's must be activated.

> ⓘ Note
>
> If you maintain the company code instead of the global company code in the **Global CoCde** filter, the SAP ERP displays a warning message. You can also save the changes. However, if you save the changes, the IDOC does not get generated for any of the FI invoices that you create on SAP ERP or SAP S/4HANA. This is because the data filter specified has the company code entries instead of the global company code.

19. Double-click **Ref.key (header) 1**.
20. Click the **Add** button and enter ISFIINVOICE in the **Filter object type** field.
21. Double-click **Document Type** filter and then click the **Add** button.
22. Add the document types that you want to filter for the FI invoices. For example, KR, KZ, and RE.
23. Click **Continue** and save the BD64 entries.

Implementing the Customer Exit for FI Invoice

Context

Implement customer exits to make specific integration requirements for the transmission of FI invoices.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **ERP-Initiated Invoice** > **FI-Based ERP-Initiated Invoice**.
4. Click **IMG-Activity** for **Implement the Customer Exit for FI Invoice**.

   The **Project Management of SAP Enhancements** screen appears.
5. Enter a name. For example, **`ZFIDOC`** and then click **Create**.
6. Enter a description in the **Short Text** field.
7. Click **Enhancement assignments**.

   The **Create Object Directory Entry** screen appears.
8. Click **Local Object**.
9. Enter the following values:
   - **Object**: `R3TR CMOD ZFIDOC`
   - **Package**: Enter a name.
10. Save the changes.

    The **SAP Enhancements in Enhancement Project page <object name>** appears.
11. Enter **`F050S001`** in the **Enhancement** text box and then press **Enter**.
12. Click **Components**.
13. Double-click **EXIT_SAPLF050_001**.
14. Double-click **INCLUDE ZX050U01** in the **Function Builder: Display EXIT_SAPLF050_001** page.
15. Enter the following include:

    ```
    INCLUDE ARBCIG_INCL_ERPCC_FI_INV_ITEM IF FOUND
    ```
16. Save the entries.
17. Enter **`F050S004`** in the **Enhancement** text box and then press **Enter**.
18. Click **Components**.
19. Double-click **EXIT_SAPLF050_007**.
20. Double-click **INCLUDE ZX050U07** in the **Function Builder: Display EXIT_SAPLF050_007** page.
21. Enter the following include:

    ```
    INCLUDE ARBCIG_INCL_ERPCC_FI_INV_HDR IF FOUND
    ```
22. Save the entries.
23. Click the **Activate** button to go back to the **CMOD** screen.
24. Activate the customer exit in the **CMOD** screen.

Related Information

Mapping SAP Tax Codes to Tax Categories [page 266]

Maintaining Parameters for FI-Based Invoice ID

Context

Enable the **ENABLE_NEW_FI_CXML_INVC_IND** parameter to send FI Invoice ID to SAP Business Network as a combination of Company Code, Fiscal Year, and FI document number (BELNR). This parameter is ignored if the **Invoice Doc Option** parameter is enabled.

To maintain the parameters required for FI-based ERP-initiated invoice, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **ERP-Initiated Invoice** > **FI-Based ERP-Initiated Invoice**.
4. Click **IMG-Activity** for **Maintain Parameters for FI-Based ERP-Initiated Invoice**.

   The **Parameters - FI-Based ERP-Initiated Invoice** screen appears.
5. Maintain the following parameters:

Table 13: Parameters for ERP-Initiated Invoice

Parameter name	Description	Supported values
ENABLE_NEW_FI_CXML_INVC_IND	Enable to send the cXML Invoice ID as a a combination of **BUKRS** + **BELNR** + **GJAHR** + **BUZEI** **Note** This parameter is available SAP Integration Suite, managed gateway, Release 2011 (Q4 2020) and above.	• **ENABLE_NEW_FI_CXML_INVC_IND** • **Field Name**: Leave it empty. • **Number**: 0000 • **Low**: Enter **X** to enable or leave it blank to disable.
ERPCC_FI_INVOICE_ENABLED	Enable or disable the Ariba provided enhancements for FI invoices.	• **Variable Name**: ERPCC_FI_INVOICE_ENABLED • **Field Name**: Leave it empty. • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable).

ERP-Initiated Service Entry Sheets

Maintaining Parameters for ERP-Initiated Service Entry Sheets [page 280]

Implementing Enhancements to Update the XBLNR Field With the ERP-Initiated Service Entry Sheet Number [page 282]

Configuring the Create and Change Events for the ERP-Initiated Service Entry Sheets [page 283]

Activating the Event Type Linkages to Send ERP-Initiated Service Entry Sheets [page 284]

Implementing Implicit Enhancements for Revoking and Rejecting Previously Accepted Service Entry Sheets [page 285]

Implementing the BAdI to Customize ERP-Initiated Service Entry Sheet [page 286]

Maintaining Parameters for ERP-Initiated Service Entry Sheets

Context

Configure the parameters required to define the service entry sheet number and the response for the revoke and delete scenario of ERP-initiated service entry sheets.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **ERP-initiated Service Sheet** >.
4. Click IMG activity for **Maintain Parameters for ERP-initiated Service Sheet**.

   The **Parameters - ERP-initiated Service Sheet** screen appears.
5. Maintain the following parameters:

Table 14: Parameters for ERP-initiated service sheets

Parameter name	Description	Supported values
ERPSES_USE_EXTERNAL_ID	Configure the parameter to use the external reference number provided by the supplier as the service entry sheet number. The default value for the parameter is blank so it uses the SAP ERP-generated number as the service entry sheet number.	• Variable Name: ERPSES_USE_EXTERNAL_ID • Field Name: Leave it blank. • Number: 0000 • Low: Enter **X** to apply the external reference number as the service entry sheet number. Leave the value blank to apply the SAP ERP-generated service entry sheet number.
ERP_SES_RESPONSE_ENABLED	Configure the parameter to enable the response for revoke and delete scenario of ERP-initiated service sheet.	• Variable Name: ERP_SES_RESPONSE_ENABLED • Field Name: Leave it blank. • Number: 0000 • Low: Enter **X** to enable response for revoke and delete scenario of ERP-initiated service sheet. Leave it blank to disable the response.
ERP_SES_ENABLED	Configure the parameter to enable or disable the Ariba provided enhancements for ERP-initiated service entry sheets.	• Variable Name: ERP_SES_ENABLED • Field Name: Leave it blank. • Number: 0000 • Low: Enter **X** to enable or leave it blank (to disable).

6. Click **Save**.

Implementing Enhancements to Update the XBLNR Field With the ERP-Initiated Service Entry Sheet Number

Context

The `XBLNR` field in SAP ERP stores the reference document number, which is the service entry sheet number. However, the `XBLNR` field is not populated when a service entry sheet is created on SAP ERP. When an invoice is generated on SAP Business Network and sent to SAP ERP, the service entry sheet number is validated against the value in the `XBLNR` field. If the `XBLNR` field is empty, the invoice is rejected on SAP ERP.

As an SAP ERP buyer administrator, you must implement an implicit enhancement to ensure that the `XBLNR` field in SAP ERP is updated with the service entry sheet number. You must include the `ARBCIG_ERPSES_XBLNR_UPDATE` function as an implicit enhancement at the start of `FORM SAVE` of the `LMLSRF0F` standard Include.

> **Note**
>
> The `XBLNR` field is a free text field on SAP ERP. After implementing this implicit enhancement, any value that you enter in this field is overwritten with the service entry sheet number.

> **Note**
>
> - If you are on SAP S/4HANA 2020 FPS0 or later versions, do not configure this implicit enhancement. You can apply the SAP Note 2991803 and SAP Note 3011936 to use the standard BAdIs in SAP S/4HANA. If you are using SAP Integration Suite, managed gateway version lower than SP12, apply the SAP Note 2993294.
> - You can apply the SAP Note 2991804 to use the SAP Integration Suite, managed gateway add-on BAdi implementation for SAP S/4HANA.

Prerequisites:

- Enable the `ERP_SES_ENABLED` parameter. For more information about enabling the parameter, see Maintaining Parameters for ERP-Initiated Service Entry Sheets [page 280]

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **ERP-initiated Service Sheet**.
4. Click IMG activity for **Implement implicit enhancement to update external reference**.

   The **ABAP Editor: Initial Screen** appears.

5. Enter `LMLSRF0F` in **Program** text box and click **Display**.
6. Click **Enhance** in the application toolbar.
7. Click **Edit** > **Enhancement Operations** > **Show Implicit Enhancement Options** to display a line immediately after `FORM SAVE`.
8. Right-click on the line, choose **Enhancement Implementation** > **Create**.
9. Click **Code** on the **Choose Type of Enhancement** popup to display **Select or Create Enhancement Implementation**.
10. Click **Create Enhancement Implementation**.
11. Enter a name and description for the enhancement and click **Enter**.
12. In the package popup, specify your Z or Y package, click **Enter**, and save the package to a transport request.
13. Paste the following code: `Include ARBCIG_ERPSES_XBLNR_UPDATE IF FOUND`.
14. Activate the enhancement and save it.

Configuring the Create and Change Events for the ERP-Initiated Service Entry Sheets

Context

Create and maintain the CHANGED and CREATED event types to send the ERP-initiated service entry sheet from SAP ERP. In the `SWEC`, the document object `ENTRYSHEET` is assigned to the business object `BUS2091`.

The following are the options maintained for the create event:

Business Obj. Type	Event	Select Option
ENTRYSHEET	CREATED	On Create
ENTRYSHEET	CREATED	On Change

Perform the following steps to create an event for service entry sheets:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **ERP-initiated Service Sheet**.
4. Click IMG activity for **Maintain the Change Document Event for ERP-initiated Service Sheet**.

The **Change View "Event for Change Document": Overview** appears.

5. Click **New Entries**.

   The **New Entries: Details of Added Entries** page appears.

6. Maintain the following entries:
   - **Change doc. object**: `ENTRYSHEET`
   - **Object Category**: `BO BOR Object Type`
   - **Object Type**: `BUS2091`
   - **Event**: `CREATED`
7. Select the **On Create** trigger event.
8. Save the changes.

> ### Note
>
> Repeat the steps 5–8 for the **On Change** trigger event.

Activating the Event Type Linkages to Send ERP-Initiated Service Entry Sheets

Context

Activate the event type linkage required to send service entry sheets to SAP Business Network.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.

2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **ERP-initiated Service Sheet** >.
4. Click IMG activity for **Maintain Event Type Linkages for ERP-initiated Service Sheet**.

   The **Change View "Event Type Linkages": Overview** appears.

5. Click **New Entries**.

   The **New Entries: Details of Added Entries** page appears.

6. Maintain the following entries:
   - **Object Category**: `BOR Object Type`
   - **Object Type**: `BUS2091`

- **Event**: `CREATED`
- **Receiver Type**: `CREATED`

Linkage Setting (Event Receiver)

- **Receiver Call**: `Function Module`

> **Note**
>
> If you choose `Method` for **Receiver Call**, you cannot enter any value for **Receiver Function Module**.

- **Receiver Function Module**: `ARBCIG_EXT_EVENT_ERP_SES`
- **Check Function Module**: `ARBCIG_EXT_EVENT_ERP_SES_CHECK`
- **Receiver Type Function Module**: Leave it blank
- **Destination of Receiver**: Leave it blank
- **Event delivery**: Using tRFC (Default)
- Select **Linkage Activated**
- **Behavior Upon Error Feedback**: 0 System defaults
- **Receiver Status**: 0 No errors

7. Save the changes.

Implementing Implicit Enhancements for Revoking and Rejecting Previously Accepted Service Entry Sheets

Context

SAP ERP buyers revoking or rejecting previously accepted service entry sheets in SAP ERP can enhance the SAP standard function module `MS_UPDATE_SERVICE_ENTRY` to ensure that the status of ERP-initiated service sheets on the SAP Business Network changes to **Sent**.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **ERP-initiated Service Sheet** >.
4. Click IMG activity for **Implement Enhancements for Revoking Previously Accepted ERP Service Sheets**.

   The **Function Builder: Initial Screen** appears.

5. Enter `MS_UPDATE_SERVICE_ENTRY` in **Function Module** text box and click **Display**.
6. Click **Enhance** in the application toolbar.
7. Click **Edit** > **Enhancement Operations** > **Show Implicit Enhancement Options**.
8. Scroll to the bottom of the page and right-click on the last line, choose **Enhancement Implementation** > **Create**.
9. Click **Code** on the **Choose Type of Enhancement** popup to display **Select or Create Enhancement Implementation**.
10. Click **Create Enhancement Implementation**.
11. Enter a name and description for the enhancement and click **Enter**.
12. In the package popup, specify your Z or Y package, click **Enter**, and save the package to a transport request.
13. Paste the following code: `Include ARBCIG_SES_REVOKE_ENHAN IF FOUND`.
14. Activate the enhancement and save it.

Implementing the BAdI to Customize ERP-Initiated Service Entry Sheet

Context

You can implement the BAdI `ARBCIG_ERP_SES_CREATE` to customize the fields in the ERP-initiated service entry sheet.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Business Add-Ins(BAdIs)** > **ERP-initiated Service Sheet**.
4. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: `ARBCIG_ERP_SES_CREATE`

   The following table lists methods that you can implement:

Method Name	Description
`PRE_PROCESSING_OUTBOUND`	To modify service entry sheet information before sending it to SAP Business Network.

Method Name	Description
DET_LOGICAL_PORT	To define or modify the customer-specific logical port for multiple scenarios SAP Business Network before sending the ERP-initiated service sheet to SAP Business Network.
POST_PROCESSING_OUTBOUND	To process any custom task after sending the service entry sheet from SAP ERP.

Ship Notice Request

For any prerequisites and limitations of the transaction, read the Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide.

Ship Notice Request Configuration in SAP ERP and SAP S/4HANA [page 287]

Ship Notice Request Configuration in SAP ERP and SAP S/4HANA

The following sections describe the procedures to configure ship notice request in SAP ERP and SAP S/4HANA for integration with SAP Business Network:

Maintaining Parameters and Prefilters for Ship Notice Request [page 287]

Defining Message Output Control for Ship Notice Request and Return Delivery [page 290]

Maintaining Parameters and Prefilters for Ship Notice Request

Context

To maintain the parameters required for ship notice request, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **SAP Ariba Supply Chain Collaboration** > **Ship Notice Request**.

4. Click **IMG-Activity** for **Maintain Parameters and Prefliters for Ship Notice Request**.

   The **Parameters - Ship Notice Request** screen appears.

5. Maintain the following parameters:

   Table 15: Parameters and prefilters for ship notice request

Parameter name	Description	Supported values
CSC_COMP_SHIP_MVMT_TYP	Required for the component shipment to maintain the movement type. For example, for a single step movement type, maintain the variable with with the **Number** as `0000` and **Low** value as `541`. To specify two-step movement type, create the same variable and field name in another row and increment the **Number** to `0001` and enter the **Low** value as `30A`.	• **Variable Name**: CSC_COMP_SHIP_MVMT_TYP • **Field Name**:Leave it blank • **Number**: 0000 • **Low**: 541 or 30A
TRIGGER_CSN_ON_DELIVERY	Set this parameter to trigger component ship notice during delivery process.	• **Variable Name**: TRIGGER_CSN_ON_DELIVERY • **Field Name**:Leave it blank • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable).
DONOT_TRIGGER_CSN_DURING_PGI	Component ship notice is configured by default to trigger during PGI (post goods issue) process. Set this parameter to stop component ship notice from triggering during PGI.	• **Variable Name**: DONOT_TRIGGER_CSN_DURING_PGI • **Field Name**:Leave it blank • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable).

Parameter name	Description	Supported values
GOODSRECEIPT	Specify a movement type, for example one of the following : `101`, `103`, `104`. To specify another movement type, create the same variable and field name in another row and increment the Number value to `2`. For example, you currently have the value as `101`. To create the `103` movement type, create another row containing the same values, but increment the Number value to `2`.	• **Variable Name**: GOODSRECEIPT • **Field Name**: RECEIPT_MVT • **Number**: 0000 • **Low**: 101, 103, 104, for example
GOODSRECEIPT	Specify a movement type, for example one of the following : `122`, `124`, or `161`, or can be left blank. To specify another movement type, create the same variable and field name in another row and increment the **Number** value to `2`. For example, you currently have the **Selection Value** as `122`. To create the movement type `124`, create another row containing the same values, but increment the **Number** value to `2`.	• **Variable Name**: GOODSRECEIPT • **Field Name**: RETURN_MVT • **Number**: 0000 • **Low**: 122, 124, 161, for example.
GOODSRECEIPT	Can be left blank or provide a movement type, for example `102`.	• **Variable Name**: GOODSRECEIPT • **Field Name**: RECEIPT_MVT_REVERSAL • **Number**: 0000 • **Low**: 102, for example.
GOODSRECEIPT	Can be left blank or provide a movement type, for example `123`.	• **Variable Name**: GOODSRECEIPT • **Field Name**: RETURN_MVT_REVERSAL • **Number**: 0000 • **Low**: 123, for example.

Defining Message Output Control for Ship Notice Request and Return Delivery

Context

In this customizing activity, you can define how documents that have been created or changed in SAP ERP or SAP S/4HANA are transferred to SAP Business Network.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **SAP Ariba Supply Chain Collaboration** > **Ship Notice Request**.
4. Click **IMG-Activity** for **Define Message Output Control for Ship Notice Request and Return Delivery**.

   The **Conditions for Output Control** screen appears.
5. Select the row with the **Application** V2.
6. Select the **Output types** button.
7. Switch to change mode.
8. Select **New Entries**.
9. Enter the **Output Type**, for example **`DSNO`**, and enter a description for the output type.
10. In the **General data** tab:
    1. Enter the **Access sequence** as **`0001`**.
    2. Select the **Access to conditions** checkbox.
    3. Enter the **Program** as **`ARBCIG_SHIP_NOTICE_REQUEST_OUT`**.
    4. Enter the **FORM routine** as **`SEND_DOCUMENT`**.
11. In the **Default values** tab:
    1. Select the **Despatch time** as **`Send immediately (when saving the application)`**.
    2. Select the **Transmission Medium** as **`Special function`**.
    3. Select the **Partner Function** as **`SH`** (Ship-to-Party).
    4. Click **Save**.
12. From the **Dialog Structure** on the left side of the screen, double-click **Partner functions**.
13. Swithc to change mode and select **New Entries**.
14. Select the **Medium** as **`Special function`**.
15. Select the **Function** as **`SH`** (Ship-to-Party).
16. Save the entries.
17. Return to **Conditions for Output Control** screen.

18. Select the row with the **Application** V2.
19. Choose the **Condition records** button.
20. Double-click **DSNO**.
21. Click **Execute**.

    The **Change Condition Records: Fast Change** screen appears.
22. In the **Condition Recs.** section:
    1. Select the **Del. Type** as **RL**.
    2. Select the **Function** as **SH** (Ship-to-Party).
    3. Select the **Medium** as **Special function**.
    4. Select the **Date/Time** as **4**.
23. Save the entries.
24. Return to **Conditions for Output Control** screen.
25. Select the row with the **Application** V2.
26. Choose the **Procedures** button.
27. Select **New Entries**.
28. Select the **Procedure** as **DTUC** and save the entry.

    The **Change View "Procedures": Overview** screen appears.
29. Select **DTUC** procedure and double-click **Control** in the **Dialog Structure**.

    The **Change View "Control": Overview** screen appears.
30. In the **Reference Step Overview** section:
    1. Enter the **Step** as **50**.
    2. Enter the **Counter** as **0**.
    3. Select the **CType** as **DSNO**.
31. Save the entries.
32. Return to **Conditions for Output Control** screen.
33. Select the row with the **Application** V2.
34. Choose the **Outpuut Type** button.
35. From the **Dialog Structure** on the left side of the screen, double-click **Partner functions**.
36. Select **New Entries**.
37. Select the **Medium** as **Special function**.
38. Select the **Function** as **SH** (Ship-to-Party).
39. Save the entries.
40. Return to **Conditions for Output Control** screen.
41. Select the row with the **Application** V2.
42. Choose the **Condition records** button.
43. Double-click **LD00**.

    The **Change Delivery Note (LD00): Selection** screen appears.
44. Select the **Sales Organization** as **0001**.
45. Click **Execute**.

    The **Change Condition Records: Fast Change** screen appears.

46. In the **Condition Recs.** section:
    1. Select the **Del. Type** as **RL**.
    2. Select the **Function** as **SH** (Ship-to-Party).
    3. Select the **Medium** as **Special function**.
    4. Select the **Date/Time** as **4**.
47. Save the entries.

Invoice Status Update

For any prerequisites and limitations of the transaction, read Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide.

Invoice Status Update Configuration in SAP ERP and SAP S/4HANA [page 292]

Invoice Status Update Configuration in SAP ERP and SAP S/4HANA

The following sections describe the procedures to configure invoice status update in SAP ERP and SAP S/4HANA for integration with SAP Business Network:

Maintaining Parameters for Invoice Status Update [page 292]

Configuring the Invoice Status Update Transaction [page 295]

Maintaining Date and Time for Invoice Status Update [page 296]

Scheduling Job for Invoice Status Update [page 297]

Sending Invoice Status Portal (ISP) Registration Invite [page 298]

Maintaining Parameters for Invoice Status Update

Context

To maintain the parameters required for invoice status update, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Invoice Status Update** > .
4. Click **IMG-Activity** for **Maintain Parameters for Invoice Status Update**.

   The **Parameters - Invoice Status Update** screen appears.
5. Maintain the following parameters:

   Table 16: Parameters for invoice status update

Parameter name	Description	Supported values
ISU_BTE_ENABLED	Enable or disable the Ariba provided enhancements for invoice status update.	• **Variable Name**:ISU_BTE_ENABLED • **Field Name**: Leave it empty. • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable).
AVOID_DUPLICATE_ISU_PP	To ensure duplicate entries for invoice status update are not sent to SAP Business Network. If you maintain the `AVOID_DUPLICATE_ISU_PP` parameter and the BTE is triggered, the invoices status is posted only when the ZLSPR–Payment Block Key field values are changed.	• **Variable Name**:AVOID_DUPLICATE_ISU_PP • **Field Name**: Leave it empty. • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable).
INVOICE02_LOGICAL_SYSTEM	To identify the partner number of the sender of invoices that are created in SAP Business Network, and sent as IDoc but fails to post on SAP ERP.	• **Variable Name**: INVOICE02_LOGICAL_SYSTEM • **Field Name**: Leave it empty. • **Number**: 0000 • **Low**: Enter low value
INVOICE_DOC_OPTION	To send the XBLNR – reference document number as the invoice ID to SAP Business Network.	• **Variable Name**: INVOICE_DOC_OPTION • **Field Name**: Leave it empty. • **Number**: 0000 • **Low**: XBLNR

Parameter name	Description	Supported values
INVOICE_DOC_TYPE	Stores doc types for invoices. To specify another general document type for invoices, for example, **RE**. Create the same variable and field name as **RE** in another row and increment the **Number** value to **2** with the selection value as **RE**. To store non-PO invoices created in SAP ERP or SAP S/4HANA and reversed or canceled using FB08 (KA) and FI invoices (non-PO invoices).	• **Variable Name**: INVOICE_DOC_TYPE • **Field Name**: RE • **Number**: 0000 • **Low**: For example, KR, RE, or KA
INVOICE_DOC_TYPE_FULL_AUTO	To store doc type required for full automatic payment for invoice status update.	• **Variable Name**: INVOICE_DOC_TYPE_FULL_AUTO • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: For example, ZP
INVOICE_DOC_TYPE_FULL_MANUAL	To store doc type required for full manual payment for invoice status update.	• **Variable Name**: INVOICE_DOC_TYPE_FULL_MANUAL • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: For example, KZ
INVOICE_DOC_TYPE_PARTIAL	To store doc type required for partial payment for invoice status update. To specify another doc type required for partial payment for invoice status update, for example, **KZ**. Create the same variable and field name as **KZ** in another row and increment the **Number** value to **2** with the selection value as **KZ**.	• **Variable Name**: INVOICE_DOC_TYPE_PARTIAL • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: KZ, KA, for example.

Parameter name	Description	Supported values
INVOIC02_REJECT_STATUS	To display status number of the rejected invoice. If you do not specify a value, the default value would be 51.	• **Variable Name**: INVOIC02_REJECT_STATUS • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: 51, 71, and so on.
CHECK_XBLNR_EMPTY	To filter the SAP generated invoices with blank reference document number to prevent any error when sent to SAP Business Network.	• **Variable Name**: CHECK_XBLNR_EMPTY • **Field Name**: K~XBLNR • **Type**: S • **Sign**: I • **Option**: NE • **Number**: 0000 • **Low**: Leave it blank.
CHECK_ARIBA_ASN	Maintain this parameter to send the status of the invoices that originated on SAP Business Network and the associated payment proposals. Both the invoice status update and payment proposal transaction document use the ARIBA_ASN parameter. Ensure that you maintain this parameter for both the invoice status update and payment proposal document transactions.	• **Variable Name**: CHECK_ARIBA_ASN • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable). **Note** This parameter is available as part of the parameters listed for the payment proposal transaction. To specify this parameter, run the transaction code, SPRO transaction and go to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Payment Proposal** .

Configuring the Invoice Status Update Transaction

Context

To create a business transaction event (BTE) for the invoice status update, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.

2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Invoice Status Update**.
4. Click **IMG-Activity** for **Configure Invoice Status Update Transaction**.

   The **SAP Business Framework: Business Transaction Events** screen appears.

5. Click **Settings** > **Products** > **...of a customer**.
6. Click **New Entries**.

   The **New Entries: Overview of Added Entries** screen appears.

7. Enter a new product name and description. The product name must start with `ARBCIG`. For example, `ARBCIG_ISU`
8. Check **Active**.
9. Go back to **SAP Business Framework: Business Transaction Events** screen and click **Settings** > **Process Modules** > **...of a customer**.
10. Click **New Entries**.

    The **New Entries: Overview of Added Entries** screen appears.

11. Enter the following information:
    - **Process**: 00005010
    - **Function Module**: ARBCIG_BTE_00005010
    - **Product**: Specify the product name created in Step 5.
12. Save the changes.

Maintaining Date and Time for Invoice Status Update

Context

Maintain date and time for invoice status update to fetch status of invoices incrementally from the last fetched date and time. This is a one-time activity for new customers.

To configure date and time for invoice status update, perform the following steps:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.

2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Invoice Status Update** .
4. Click **IMG-Activity** for **Maintain Date and Time for Invoice Status Update**.
5. Click **New Entries**.

   The **New Entries: Overview of Added Entries** screen appears

   .
6. From the **Document Type** dropdown, choose **Invoice Status Update** and maintain **Date** and **Time**.
7. Click **Save**.

Scheduling Job for Invoice Status Update

Context

Schedule the report `ARBCIG_INVOICESTATUS_EXPORT` to record the creation or status change of the invoice in SAP ERP or SAP S/4HANA and ensure that the messages are triggered. The report determines the invoices that have been created or changed since the last time the report was run and triggers the invoice status update messages.

To schedule job for Invoice Status Update, perform the following steps:

Procedure

1. Run the transaction code `SM36`.

   The **Define Background Job** screen appears.
2. In the **Program** field, enter **`ARBCIG_INVOICESTATUS_EXPORT`**.
3. Schedule the program.

Sending Invoice Status Portal (ISP) Registration Invite

This feature enables buyers to send an invoice status portal (ISP) registration invite to their suppliers. For more information, see Invoice status update.

Context

Repeat the following process for each of the suppliers that you want to send the invite to.

1. Run the transaction code SPRO and click **SAP Reference Image**.
2. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **General Settings** > **Enable Outbound Process Type Attribute Per Vendor**.
3. Click the execite icon.
   The **Change View: Activate add. process type attributes for specific vendor** screen is displayed.
4. Click **New Entries** and maintain the following values in the **New Entries: Overview of Added Entries** page:

Field	Value
Supplier	Select the supplier.
CoC	Select the company code.
Process Type	**INV**
Proc. Typ. Attribute	**ISP**
Process Type Attribute Values	Maintain one of the following values: • **X**: To enable the feature • A blank value to disable the feature.

Product Activity Message

For any prerequisites and limitations of the transaction, read Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide.

Product Activity Message Configuration in SAP ERP and SAP S/4HANA [page 298]

Configuring the Mapping of Material Product Hierarchy in SAP ERP or SAP S/4HANA to Material Classification Fields in SAP Business Network [page 306]

Product Activity Message Configuration in SAP ERP and SAP S/4HANA

The following sections describe the procedures to configure product activity message in SAP ERP and SAP S/4HANA for integration with SAP Business Network:

Maintaining Parameters and Movement Types for Product Activity Message [page 299]

Running Supplier-Managed Inventory (SMI) Report for Product Activity Message [page 300]
Running Forecast Collaboration Report for Product Activity Message [page 301]
Running Subcontract PO Stock Update for Inbound Delivery Report for Product Activity Message [page 302]
Running Consignment Report for Product Activity Message [page 302]
Maintaining the Parameter to Extract the Data in Batches [page 303]
Setting the Wait Time to Process Serial Numbers in the Product Activity Messages [page 304]
Running Product Activity Message to Send Material Stock Inventory to SAP Business Network [page 305]

Maintaining Parameters and Movement Types for Product Activity Message

Context

To trigger product activity message for consignments, perform the following steps:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **SAP Ariba Supply Chain Collaboration** > **Product Activity Message**.
4. Click **IMG-Activity** for **Maintain Parameters and Movement Types for Product Activity Message**.

   The **Parameters - Product Activity Message** screen appears.
5. Maintain the following parameters:

   > **Note**
   >
   > Ensure that you also maintain the parameter `CSC_ENABLED` that is primarily required for SAP Business Network for Supply Chain.

Table 17: Parameters for product activity message

Parameter name	Description	Supported values
PRO_ACT_ENABLED	Enable this parameter to allow you to post consignment withdrawals and for creating goods receipt with reference to the inbound delivery for subcontracting purchase order.	• **Variable Name**: PRO_ACT_ENABLED • **Field Name**: Leave it blank • **Number**: 0001 • **Low**: X (to enable) or leave it blank (to disable).
PRO_ACT_CONS	To maintain movement types for consignments and trigger product activity message. To maintain multiple movement types, you can add another record and increment the **Number** field by 1.	• **Variable Name**: PRO_ACT_CONS • **Field Name**: Leave it blank • **Number**: 0001 • **Low**: For example one of the following: 411, 201, 261, 412, 262, or 202.
AGGR_SMI_BATCH	Maintain this parameter to extract messages based on Plant and Material. If this is not enabled the extract will contain batch wise details.	• **Variable Name**: AGGR_SMI_BATCH • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: X, for example.
PRO_ACT_NO_EMPTY_BATCHES	Enable this parameter so that the SAP ERP system does not include the information for materials without stock in the product activity message.	• **Variable Name**: PRO_ACT_NO_EMPTY_BATCHES • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: Set this value to 'X' to enable the parameter or leave it blank to keep it disabled.

Running Supplier-Managed Inventory (SMI) Report for Product Activity Message

Context

You can run supplier-managed inventory (SMI) report for product activity message to extract the supplier-managed inventory information for material items from the SAP ERP or SAP S/4HANA system.

Procedure

1. Run the transaction code `ARBCIG_PROA_SMI_EXTRACT` to run the SMI report.
2. In the **Extract Stock/Forecast for ProductActivityMessage** screen, specify the following:
   - Enter the values in the **General Parameters** section. Ensure that you specify a value in the **Plant** and **Material** fields.
   - Specify the **Vendor** details.
   - Specify the **Stock Type**, **Storage Location**, **Stock Category**, **Additional Stock Type**, and **Additional Stock Data**, as required.

     > **Note**
     >
     > Check the **No Zero Stock Lines** field to extract materials having stock and materials without any stock. For more information about **No Zero Stock Lines**, see Product Activity Message in SAP Integration Suite, Managed Gateway Overview Guide.

   - Specify the **Time Period**, **Gross Demand**, **Forecast Data**, and **Unit of Measure**.
3. Click **Execute**.

Running Forecast Collaboration Report for Product Activity Message

Context

You can run Forecast Collaboration report for product activity message for material items from the SAP ERP or SAP S/4HANA system.

Procedure

1. Run the transaction code `ARBCIG_PROA_FORECAST_EXTRACT` to run the forecast collaboration report.
2. In the **Forecast collaboration - Product Activity Message** screen, specify the following:
   - Enter the values in the **General Parameters** section. Ensure that you specify a value in the **Plant** and **Material** fields.
   - Specify the **Vendor** details.
   - Specify the **Purchase Requisition**, **Scheduling Agreement Release**, and **Planned Orders** as required.
   - Specify the **Time Period**.
3. Click **Execute**.

Running Subcontract PO Stock Update for Inbound Delivery Report for Product Activity Message

Context

You can run subcontract PO stock update for inbound delivery report for product activity message.

Procedure

1. Run the transaction code `ARBCIG_PRODUCT_ACTIVITY` to run the subcontract PO stock update for inbound delivery report.
2. In the **Stock for Product Activity Message** screen, specify the following:
    - Enter the values in the **General Parameters** section. Ensure that you specify a value in the **Plant** and **Material** fields.
    - Specify the **Vendor** details.
3. Click **Execute**.

Running Consignment Report for Product Activity Message

Context

Buyers can send the component inventory overview (`ProductActivityMessage`) with the details of the components on the SAP ERP system to the contract manufacturer supplier.

Run this report each time the consignment invoice (settlement) has been created on the SAP ERP system to make the settlement against the withdrawn consignment goods. When you run the report after you create the consignment invoice, the product activity message contains the consignment invoice settlement number associated to the consignment withdrawal of goods. Based on the information in the product activity report, SAP Business Network maintains the references to the consignment withdrawal against the consignment invoice. Suppliers can view the information for the consignment collaboration on SAP Business Network.

Procedure

1. Run the transaction code, `SE38`.
2. In the **Program** field, enter `ARBCIG_PRODUCT_ACTIVITY_CSG`
3. Click **Execute** to run the program for the consignment report.
4. In the **Report for Product Activity Consignment** screen, click one of the following:
    - Click **Consignment Movement Posted Since Last Report Run** and click **Execute**.

The report would list all the consignment withdrawal settlements done since the last time the report was generated.

- Click **Reconciliation by Consignment Movement**, and in the Selection Criteria section ensure that you specify a value in the **Vendor**, **Material Doc.**, and **Mat. Doc. Year** fields.

5. Uncheck the **Display Log** checkbox if you do not want to display the application logs on the screen. You can view the application logs using the `SLG1` transaction.

   By default, the **Display Log** checkbox appears checked.

6. Click **Execute**.

Maintaining the Parameter to Extract the Data in Batches

Context

The behavior of the **Batch** parameter available on the product activity message depends on the value that you set for the `AGGR_SMI_BATCH` parameter. You can set the following values for the `AGGR_SMI_BATCH` parameter.

The value set for the AGGR_SMI_BATCH parameter	The behavior of the Batch parameter
S	The **Batch** parameter that you select on the selection screen of the supplier managed inventory is functional. After you check the **Batch** parameter on this screen, you can send the stock details in batches.
Blank	The **Batch** parameter on the selection screen does not function and the stock details are sent in batches.
X	The **Batch** parameter on the selection screen does not function and the stock details are sent aggregated at the plant level without any batch-specific details

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.

2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **SAP Ariba Supply Chain Collaboration** > **Product Activity Message**.

4. Click **IMG-Activity** for **Maintain Parameters and Movement Types for Product Activity Message**.

   The **Parameters - Product Activity Message** screen appears.

5. Maintain the `AGGR_SMI_BATCH` parameter as follows:

> ### Note
>
> Ensure that you also maintain the parameter `CSC_ENABLED` that is primarily required for SAP Ariba Supply Chain Collaboration.

Parameter name	Description	Supported values

`AGGR_SMI_BATCH`	Maintain this parameter to control the behavior of the **Batch** parameter.	• Variable Name: `AGGR_SMI_BATCH`
		• Field Name: Leave it blank
		• Number: 0000
		• Low: Set the following values:
		  • S - The **Batch** parameter on the selection screen of the supplier managed inventory is functional.
		  • Blank - The **Batch** parameter does not function and the stock details are sent in batches.
		  • X - The **Batch** parameter on the product activity message screen does not function. You can send the aggregate stock details at the plant and the material levels.

Setting the Wait Time to Process Serial Numbers in the Product Activity Messages

Context

Use this parameter if you are specifying serial numbers in real time consumption for subcontracting components in the product activity messages. This parameter is to set the time delay before the serial numbers can be retrieved from the ERP system for the component ship notice documents.

Specify the wait time in seconds. The default wait time is 60 seconds.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.

2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **SAP Ariba Supply Chain Collaboration** > **Product Activity Message**.

4. Click **IMG-Activity** for **Maintain Parameters and Movement Types for Product Activity Message**.

   The **Parameters - Product Activity Message** screen appears.

5. Maintain the following parameters:

   > **Note**
   >
   > Ensure that you also maintain the parameter `CSC_ENABLED` that is primarily required for SAP Business Network for Supply Chain.

   Table 18: Parameters for serial numbers in the product activity message

Parameter name	Description	Supported values
PRO_ACT_WAIT	Set this parameter if you are specifying serial numbers for subcontracting components in the product activity message. You can set this parameter when you want to set a time delay to process the standard BAdI, `MB_DOCUMENT_BADI`.	• **Variable Name**: PRO_ACT_WAIT • **Field Name**: Leave it blank • **Number**: Enter 0000 (zero). • **Low**: Specify the wait time in seconds. For example, 40. **Note** The minimum recommended wait time you can set for this parameter is 30 seconds. If you do not specify the wait time, SAP ERP applies the default value.

Running Product Activity Message to Send Material Stock Inventory to SAP Business Network

Context

Run the **Stock for Product Activity Message** report to send the material stock of the `In-transit` and `Unrestricted` inventory types to SAP Business Network. You must select the **Only Intransit & Unrestricted Stock** option in the **Additional Selection Criteria** section of the report.

> **Note**
>
> When the **Only Intransit & Unrestricted Stock** is selected, you cannot specify vendors on the selection screen. The vendor details are derived from the plant information entered on the selection screen.

Procedure

1. Run the transaction code `ARBCIG_PROA_INV`

   The **Stock for Product Activity Message** report appears.
2. Do the following:
   a. In the **General Parameters** section, enter the values. Ensure that you specify the values for the **Plant** and the **Material** fields.
   b. In the **Additional Selection Criteria**, choose **Only Intransit & Unrestricted Stock**
   c. Check **Display Log** if you want to display the details of the report in the application logs.
3. Click **Execute**.

Configuring the Mapping of Material Product Hierarchy in SAP ERP or SAP S/4HANA to Material Classification Fields in SAP Business Network

Mapping Material Product Hierarchy in SAP ERP or SAP S/4HANA to Material Classification Fields in SAP Business Network [page 306]

Mapping Material Product Hierarchy in SAP ERP or SAP S/4HANA to Material Classification Fields in SAP Business Network

Context

You can map the material product hierarchy in SAP ERP or SAP S/4HANA to material classification in SAP Business Network. You can maintain the number of levels of product hierarchy that you want to map to the material classification fields in SAP Business Network and the material classification fields to which each product hierarchy level should be mapped.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **General Settings**.
4. Click **Map Material Product Hierarchy to Material Classification**.

The **Change View: Product Hierarchy Mapping to AN Material Classification** screen appears.

5. In the fields under the **Level no** column, enter the product hierarchy levels that you want to map to material classification in SAP Business Network. In the corresponding fields under the **Material classification** column, enter the material classification domain to which you want to map the product hierarchy levels.
6. Click **Save**.

Payment Remittance

SAP Ariba recommends that you read Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide for the prerequisites and limitations.

Payment Remittance Request Configuration in SAP ERP and SAP S/4HANA [page 307]

Payment Remittance Request Configuration in SAP ERP and SAP S/4HANA

The following sections describe the procedures to configure payment remittance request in SAP ERP and SAP S/4HANA for integration with SAP Business Network:

Maintaining Parameters for Payment Remittance Request [page 307]

Maintaining Variants for Remittance [page 308]

Implementing the Customer Exit for Payment Remittance to Fill Data into Custom Segments [page 309]

Setting Up the BAdI for Sending Information about Canceled Payments [page 311]

Sending Information about the Canceled Payments to SAP Business Network [page 312]

Maintaining Parameters for Payment Remittance Request

Context

To maintain the parameters required for payment remittance request, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Payment Remittance Request**.
4. Click **IMG-Activity** for **Maintain Parameters for Payment Remittance Request**.

   The **Parameters - Payment Remittance Request** screen appears.
5. Maintain the following parameters:

   Table 19: Parameters for payment remittance request

Parameter name	Description	Supported values
PAYMENT_REMITTANCE_ENABLED	Enable or disable the Ariba provided enhancements for payment remittance.	• **Variable Name**: PAYMENT_REMITTANCE_ENABLED • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable).
ORBIAN_PAYMENT_METHOD	To provide the payment configuration method in SAP ERP and SAP S/4HANA for Orbian payment method.	• **Variable Name**: ORBIAN_PAYMENT_METHOD • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: Enter the payment method configured in SAP ERP or SAP S/4HANA for Orbian payment method.

Maintaining Variants for Remittance

Context

For generating IDocs for payment processing (type `PAYEXT`) from `F110`, maintain the variant for report `RFFOEDI1`. To send IDoc advice of type `REMADV` to Ariba, maintain the variant for report `RFFOAVIS_FPAYM`.

Ensure that the Advice flag is set as per EDI at the vendor master data. Note the difference between IDoc payments to a bank (type `PAYEXT`) and IDoc advice sent to Ariba (type `REMADV`). You are also required to configure the company code, house bank, and payment method accordingly.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Payment Remittance Request**.

4. Click **IMG-Activity** for **Maintain Variants for Remittance**.

   The **Maintain Variants for Remittance** screen appears.
5. Enter a value for the following parameters:
   - **Program run date**
   - **Identification feature**
   - Under **Futher Selections**:
     - **Payment methods**
     - **House bank**
     - **Account ID**
   - Under **Print control**
     - Check **Generate SAP IDoc**, enter a name for **Printer**, and check **Print Immediately**.
     - Check **Print payment advice notes**, enter a name for **Printer**, and check **Print Immediately**.
6. Navigate to **Goto** > **Variants** and click **Save as Variant**.

   The **Variant Attributes** screen appears.
7. Enter a name and description for **Variant Name** and **Description**.
8. Click **Save**.

Implementing the Customer Exit for Payment Remittance to Fill Data into Custom Segments

Prerequisites

You are required to register the following segments that need enhancements using the transaction code OBAZ:

Table 20: Segments that need enhancements using transaction code OBAZ

Message Type	Basic Type	Extension	Segment Type
REMADV	ARBCIG_REMADV	–	E1IDKU1
REMADV	ARBCIG_REMADV	–	E1EDKA1
REMADV	ARBCIG_REMADV	–	E1IDB02
REMADV	ARBCIG_REMADV	–	E1IDPU1

Context

To implement a customer exit to fill data into custom segments, perform the following steps:

> **Note**
>
> For more information about this user exit, see SAP Note: 1248868: User exits for PEXR2003/PEXR2002 IDoc generation.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Payment Remittance Request**.
4. Click **IMG-Activity** for **Implement Customer Exit for Payment Remittance to Fill Data into Segment**.

   The **Project Management of SAP Enhancements** screen appears.
5. Create a new project. For example, ZREMADV
6. Click **Create**.
7. Click **Enhancement Assignments**.

   The **Create Object Directory Entry** screen appears
8. Enter values for the following:
   - **Object**: `R3IR CMOD ZREMADV`
   - **Package**: Customer-specific value
9. Click **Save**.
10. In the **Enhancement** text box, enter `FEDI0003` and then click **Enter**.
11. Click **Components**.
12. Double-click **EXIT_SAPLIEDP_001**.
13. In the **Function Builder: Display EXIT_SAPLIEDP_001** page, double-click **INCLUDE ZXF08U01**.
14. Add the following code:

```
Include ARBCIG_INCL_PAYMENT_REMITTANCE IF FOUND
```

15. Click **Activate**.
16. Go back and activate the user exit also.

How to implement customer exit to remove automatic special characters in Remittance Advice

Procedure

To eliminate automatic special characters in the Remittance Advice, implement the following customer exit:

1. Double-click **EXIT_SAPLIEDP_401**.
2. In the **Function Builder: Display EXIT_SAPLIEDP_401** page, double-click **INCLUDE ZXF08U12**.
3. Add the following code:

```
Include ARBCIG_INCL_REMADV_NO_SP_CHARS IF FOUND
```

4. Click **Activate**.
5. Go back and activate the user exit also.

Setting Up the BAdI for Sending Information about Canceled Payments

Context

The BAdI `ARBCIG_REM_CANCEL_STATUS` allows buyers to customize the information about canceled payments sent to SAP Business Network. You can use this BAdI to enhance the information you send in the `PaymentRemittanceStatusUpdateRequest` for canceled payment remittances. Use the following methods to enhance the BAdI.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Business Add-Ins(BAdIs)** > **Payment Remittance** > **BAdIs for Payment Remittance Cancellation**
4. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: `ARBCIG_REM_CANCEL_STATUS`

The following table lists methods that you can implement:

Method Name	Description
PREPROCESSING	BADI for preprocessing of the `PaymentRemittanceStatusUpdateRequest`.
POSTPROCESSING	BADI for postprocessing of the `PaymentRemittanceStatusUpdateRequest`.

Sending Information about the Canceled Payments to SAP Business Network

Context

Buyers can send information about the canceled payments to SAP Business Network from the SAP ERP system. You can send information only for automatic payments that buyers cancel on the SAP ERP system. To send the information, go to the transaction code `ARBCIG_REM_CANCEL`. Suppliers receive the `PaymentRemittanceStatusUpdateRequest` documents informing them of the status of the payments. The `PaymentRemittanceStatusUpdateRequest` contains information about the payment reference number, status of the payment, and the reason for the cancellation.

You can send information about only one automatic payment cancellation to SAP Business Network.

Prerequisite

Ensure that you reset and reverse the clearing document using the transaction code, `FBRA` before you send the information on the canceled automatic payment to SAP Business Network.

Procedure

1. Run the transaction code `ARBCIG_REM_CANCEL`.
2. Enter the following:
    1. Enter the reference number of the remittance that you reset and reversed in the **Reversal Remittance Document** field.
    2. Enter the company code of the paying company in the **Paying Company Code** field.
    3. Enter the fiscal year for the payment in the **Fiscal year** field.
3. Click **Execute** to send information about the canceled remittance.

Payment Remittance Batch

SAP Ariba recommends that you read the SAP Integration Suite, Managed Gateway Overview Guide for the prerequisites and limitations listed for the supported functionalities to send multiple payment remittances in a batch file.

Configuring Payment Remittance Batch in SAP ERP or SAP S/4HANA [page 313]

Configuring Payment Remittance Batch in SAP ERP or SAP S/4HANA

The following sections describe the procedures to configure payment remittance batch in SAP ERP or SAP S/4HANA for integration with SAP Business Network:

Creating Payment Methods by Country/Region for AribaPay [page 313]

Customizing the Payment Batch [page 314]

Maintaining Parameters for Payment Batch Remittance [page 315]

Maintaining the Company Registration Number and the Client ID for a Vendor [page 316]

Setting Up the Connection to Connect an XI Adapter with SAP Integration Suite, Managed Gateway [page 317]

Setting the Parameter to Send the Payments to International Suppliers [page 319]

Configuring Your SAP Process Integration to Send Multiple Payments in a Batch File Using the XI Adapter [page 320]

Creating Payment Methods by Country/Region for AribaPay

Context

Maintain payment methods specific for SAP Ariba Payables by countries.

Procedure

1. Go to transaction code FBZP.
2. Click **Pmnt methods in country**.
3. Click **New Entries**.
4. Choose the country/region in the **Country** field.
5. Select the required payment method for SAP Ariba Payables in the **Pymt Method** field. Ensure that the payment method that you associate for AribaPay is not already configured as the EDI payment method in the payment configuration on the SAP ERP system.
6. Check **Use payment medium workbench** in the Payment medium section.
7. Enter "CPOR_BULK" in the **Format** field. Save the changes.
8. Enter the required parameters and run the transaction code `F110`. This triggers the payment batch message to SAP Business Network.
9. (Required only if you want to resend the information) Run the program SAPFPAYM after specifying the **Run Date** and **Identification**. Ensure that you run the program with the same date and ID.
10. Save the changes.

11. Sign in to your SAP Business Network buyer account and map the "CPOR_BULK" payment method to the AribaPay payment method. Ensure that you check **Use SAP Business Network Payment** for SAP Business Network to send the payment information to the SAP Ariba Payables payment provider for processing payments. For more information, see Mapping a Payment Method Identifier to the Check Payment Method in SAP Business Network Buyer Administration Guide in the **Product Documentation** > **Administration and Configuration** section of the Learning Center.

Customizing the Payment Batch

Context

You can customize the remittances sent in a batch by using the standard enhancements and BAdI `BNK_CPOR` available for payments in the F110 Automatic payment transaction.

If you use SAP ERP EHP5 and higher, ensure that you implement the methods for the standard BAdI to send payments (remittances) in a batch file to SAP Business Network. To process payments, SAP Ariba Payables requires the following fields. However, the standard ESOA service does not support these fields by default.

To include information on the fields that are not available in the standard SAP Enterprise service, SAP Ariba provides an enhancement to the following methods for the standard BAdI available for the FI10 automatic payment transaction on your SAP ERP and SAP S/4HANA system. SAP Ariba recommends that you implement the standard BAdI `BNK_CPOR` to send the required information to SAP Ariba Payables. Ensure that you also follow the instructions available in the SAP Notes 2654684. You must copy the code available in the SAP Note 2654684 for the following methods to make changes to the Collective Payment Order Bulk Request message type.

- Fields that are not available in the standard SAP Enterprise Service:
  - Item Number
  - Structured Invoice Reference
  - Reference Document Number
  - PO Number
  - Payment Proposal ID
  - Net Amount in Local Currency with +/- Signs
  - Amount Before Deductions in Local Currency with +/- Signs
  - Cash Discount Amount (+/-) in Local Currency
  - Withholding Tax Amount (+/-) in Local Currency
  - Item text with Language code
  - Batch id
  - Payment method description
  - Logical system name
  - Vendor Email address

> **Note**
>
> The SUPPLIERNAME attribute (payeeContact Name), in proxy xml is a concatenation of the first name and the last name that is exported from "partner details" or “business partner role” of the vendor master.

Procedure

1. Use the following to customize the payment batches to include the fields that SAP Ariba Payables requires to process payments sent through the cXML format:
    - BAdI Name: `BNK_CPOR`
    - Method Name: `IF_EX_BNK_CPOR~COMPLETE_CASE_EXTENSION` . Use this method to implement your required logic to extend the message to include your specific fields. For example, you can use this method to support the supplier's address and email address.
    - Method Name: `IF_EX_BNK_CPOR~COMPLETE_EXPLANATION` . Use this method to implement your required explanations for the payments.
2. Implement the SAP Note 2654684 available for the BAdI.

Maintaining Parameters for Payment Batch Remittance

Context

Perform this tasks for the integration to support Barclaycard Precisionpay as payment partner on SAP Business Network.

Maintain the required parameters for payment batch remittance to SAP Business Network.

Procedure

1. Run the transaction code SPRO.

    The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

    The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Payment Batch Remittance** >.
4. Click **IMG-Activity for Maintain Parameters for Payment Batch Remittance**.

    The **Parameters - Payment Batch Remittance** screen appears.
5. Maintain the following parameters:

Parameter Name	Description	Supported Values
PARTNER_CP	Maintain the function of the contact person of the supplier.	• **Variable Name**: PARTNER_CP • **Field Name**: Leave it empty • **Number**: Leave it empty • **Low**: Enter the function of the contact person of the supplier. For example, `02` for **Head of Purchasing**. Ensure that you have maintained this function in the customer master data. To disable, leave it blank.

Maintaining the Company Registration Number and the Client ID for a Vendor

Context

Perform this tasks for the integration to support Barclaycard Precisionpay as payment partner on SAP Business Network.

Maintain the company registration number and the client ID for a vendor in the `ARBCIG_AN_VENDOR` table.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **General Settings** > .
4. Click **Enable Vendors**.

   The **Change View "SAP Business Network Vendor Table": Overview** screen appears.
5. Do one of the following:
   - To update the company registration number and the client ID for an existing vendor, click the row representing the details of the vendor and do the following:
     1. In the **Comp Registration No** field, enter the new company registration number of the vendor.
     2. In the **ClientID** field, enter the client ID of the vendor.
     3. Click **Save**.
   - To update the company registration number and the client ID for a new vendor, do the following:
     1. Click **New Entries**.

2. In the **New Entries: Overview of Added Entries** screen, enter the following mandatory information for adding the details of a vendor and click Save.

CoCD	Enter the company code of the vendor.
Vendor	Enter the account number of the vendor.
Comp Registration No	Enter the company registration number of the vendor.
ClientID	Enter the client ID of the vendor.

3. Click **Save**.

Setting Up the Connection to Connect an XI Adapter with SAP Integration Suite, Managed Gateway

Context

If you use a standard SAP Enterprise Service for an SAP Ariba document transaction, you need to connect to an XI adapter to route your document transaction to SAP Integration Suite, managed gateway. You need the following to connect to an XI adapter:

- Configure an RFC destination to the XI adapter.
- Define a sender and receiver ID for the interface to maintain the settings of the `SXMSINTERFACE` database table.
- Set up the Integration Engine Configuration

Procedure

Configure an RFC destination to the XI adapter

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Click **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Global Settings** > .
4. Click **Create RFC Destination**.

   The **Configuration of RFC Connections** screen appears.
5. Click **HTTP Connections to External Server** and click **Create**.

   The **RFC Destination** screen appears.
6. Maintain the fields for the following parameters:

- **RFC Destination**: Enter the RFC destination for the XI adapter. For example, ABC Dest1.
- **Description**: Enter a description.
- On the **Technical Settings** tab, maintain the following value for **Target System Settings**:
  - **Target Host**: SAP Integration Suite, managed gateway uses the Europe data center by default. If you are using the Europe data center, enter testacig.ariba.com for a test system, or acig.ariba.com for a production system.
    If you are using an XI adapter with a private tenant, enter the HCI private tenant target host name. For example, acmecig.abc.com.
  - **Service No.**: 443
  - **Path Prefix (for the XI adapter)**: /cxf/receiveXI
    If you are using an XI adapter with a private tenant, enter /cxf/receiveAddonXI.

  (Optional) **HTTP Proxy Options**:
  - **Proxy Host** : Enter the proxy host name. For example, proxy.ariba.com.
  - **Proxy Service**: Enter the port name for the proxy service. For example, 8080.
- On the **Logon & Security** tab, specify the following:
  - **Logon Procedure**: **Basic Authentication**.
  - **SSL**: **Active**.
  - **SSL Client Certificate**: **ANONYM SSL Client (Anonymous)**.
  - **User**: Enter the P user ID for your SAP Integration Suite, managed gateway.
  - **Password**: Enter the password for your P user ID to connect to SAP Integration Suite, managed gateway.

    > **Note**
    >
    > Ensure that the RFC user's logon language matches the program language. For example, if the program language is set to **English**, the RFC user's logon language should also be set to **English** (**EN**).

7. Click **Save**.

Define a sender and receiver ID for the interface

8. Repeat steps 1 to 3 to go back to the **Display IMG** screen.
9. Click **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Set up the Interface** > **Define a sender/receiver definition for the interface** > **.** .

   The **Display View Sender/Receiver Definition Overview** page appears.
10. Maintain the following values for the sender and receive definition:
    - **Sender/Reciver ID**: Enter a name for the transaction. The name you specify must be in upper case and without spaces or special characters. For example, PAYMENTREMITTANCEBATCH.
    - **Description**: Enter a description.
    - **Component**: Enter * (asterisk).
    - **Message Category** : Click the **Request** button.
      - **Interface Name**: Specify `CollectivePaymentOrderBulkRequest_Out`.
      - **Interface Namespace**: Specify `http://sap.com/xi/APPL/SE/Global` .

Set up the Integration Engine Configuration

11. Repeat steps 1 to 3 to go back to the **Display IMG** screen.
12. Click **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Set up the Interface** > **Integration Engine Configuration**.

    The **Integration Engine Configuration Data** screen appears.
13. Click **Specific Configuration** to define new parameters with following values:
    - **Category**: Choose **RUNTIME**.
    - **Parameters**: Choose **IS_URL**.
    - **Subparameters**: Choose the sender and receiver ID that you have defined in the Sender/receiver definition for the interface setup.
    - **Current Value**: Enter the name of the RFC destination. For example, dest://<name of the RFC destination you defined in SM59 for XI adapter>

Setting the Parameter to Send the Payments to International Suppliers

Context

Maintain the required parameter for the payment batch remittance transaction document. You need this parameter to make payments to international suppliers, against the invoices that SAP Business Network sends you in the supplier's preferred currency.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Payment Batch Remittance**.
4. Click **IMG-Activity for Maintain Parameters for Payment Batch Remittance**.

   The **Parameters - Payment Batch Remittance** screen appears.
5. Maintain the following parameters:

Parameter Name	Description	Supported Values
PAY_IN_DOCUMENT_CURRENCY	Buyers can make payments against the invoices that SAP Business Network suppliers send them in the supplier's preferred currency (Document Currency). To send the payment amount in the supplier's currency, set the parameter to X.	• **Variable Name**: PAY_IN_DOC_CURRENCY • **Field Name**: Leave it empty • **Number**: Leave it empty • **Low**: Enter X to make the payment in the supplier's currency (Document Currency). If you do not set the parameter to X, the supplier receives the payment amount in the local currency of the buyer (Company Code currency).

Configuring Your SAP Process Integration to Send Multiple Payments in a Batch File Using the XI Adapter

Context

This step is required only if you use a middleware. Configure the SAP Process Integration to send multiple payments in a batch file using the XI adapter.

Procedure

1. Configure the communication channel for the XI adapter to:
   - Send information to SAP Integration Suite, managed gateway
   - Send information from SAP ERP or S/4HANA
2. Configure the integration scenario for the interface, `CollectivePaymentOrderBulkRequest_Out`:
   - Configure the integration scenario for the interface, `CollectivePaymentOrderBulkRequest_Out`.
     - **Namespace**: `http://sap.com/xi/ARBCIG1`
     - **Software Component Version**: If you use SAP ERP, enter ARBCI1 100 or enter ARBCI1 10S if you use SAP S/4HANA.

Configuring the Communication Channel for the XI Adapter to Connect to SAP Integration Suite, Managed Gateway [page 321]

Configuring the Communication Channel for the XI Adapter to Connect from SAP ERP or S/4HANA [page 322]

Configuring the Integration Scenario for the CollectivePaymentOrderBulkRequest_Out Interface [page 322]

Configuring the Communication Channel for the XI Adapter to Connect to SAP Integration Suite, Managed Gateway

Context

This step is required only if you use a middleware. Configure the SAP Process Integration to send multiple payments in a batch file using the XI adapter. Configure the communication channel for the XI adapter to connect to the SAP Integration Suite, managed gateway with the following values.

Procedure

1. Create a communication channel with the following:
    - **Communication Channel**: Enter a name. For example, CC_CIG_SOAP_Receiver_P000265_XI.
    - **Communication Component**: <Name of the Business System for SAP Integration Suite, managed gateway>. For example, BS_CIG.
2. Choose the adapter metadata for the SAP Integration Suite, managed gateway in the **Adapter Type** field:
    - SOAP
    - http://sap.com/XI/System
3. In the **Message Protocol** field, choose XI 3.0.
4. Set the connection parameters.
    - In the **Target URL** field, enter the path to the XI adapter: https://<target host name > /cxf/receiveXI.
      For the target host:
        - If you are using the Europe data center:
            - Enter `testacig.ariba.com`, for a test system.
            - Enter `acig.ariba.com`, for a production system.
    - Enter the P user ID and password in the Authentication Data section.
5. (Optional) Enter the Proxy Settings:
    - **Host**: Enter the proxy host name. For example, proxy.ariba.com.
    - **Port**: Enter the port name for the proxy service. For example, 8080.
      For more information about configuring your SAP Process Integration, see SAP Integration Suite, Managed Gateway Installation Guide.

Configuring the Communication Channel for the XI Adapter to Connect from SAP ERP or S/4HANA

Context

This step is required only if you use a middleware. Configure the SAP Process Integration to send multiple payments in a batch file using the XI adapter. Configure the communication channel for the XI adapter to connect to SAP ERP or SAP S/4HANA with the following values.

Procedure

1. Create a communication channel with the following:
   - **Communication Channel**: Enter a name. For example, CC_Proxy_sender.
   - **Communication Component**: <Name of the Business System for SAP ERP or SAP S/4HANA system>. For example, BS_Z74CLNT800.
2. Choose the adapter metadata for the SAP Integration Suite, managed gateway in the **Adapter Type** field:
   - SOAP
   - http://sap.com/XI/System
3. In the **Message Protocol** field, choose XI 3.0.

   For more information about configuring your SAP Process Integration, see SAP Integration Suite, Managed Gateway Installation Guide.

Configuring the Integration Scenario for the CollectivePaymentOrderBulkRequest_Out Interface

Context

Configure the integration scenario to send your payment batches through SAP Process Integration. Ensure that you download and install the corresponding TPZ file for the SAP ERP enterprise services package.
The service interface `CollectivePaymentOrderBulkRequest_Out` is referenced from the SAP namespace: `http://sap.com/xi/APPL/SE/Global`.

If you have customized the standard SAP ERP enterprise services package, ensure that you use the outbound service interface `CollectivePaymentOrderBulkRequest_Out` from the Software Component version and namespace that belongs to SAP Enterprise Service package content (ECC-SE 605 and higher) in the SAP Integration Suite, managed gateway namespace `http://sap.com/xi/APPL/SE/Global`.

Procedure

1. Create a process integration scenario with the following values:
   - **Name**: `CollectivePaymentOrderBulkRequest_Out`
   - **Namespace**: `http://sap.com/xi/APPL/SE/Global`
   - **Software component version**: ESA -ECC-SE-605
2. Assign the business system for the SAP ERP or SAP S/4HANA and SAP Integration Suite, managed gateway components for the payment batch outbound transaction.
3. Configure the receiver relations for the individual connection:
   - **Receiver Name**: Enter a value. For example, CIG_Receiver.
   - **Namespace**: `http://sap.com/xi/ARBCIG1`
   - **Communication component**: <Name of the Business System for SAP Integration Suite, managed gateway>. For example, BS_CIG.
4. Configure the Communication Channels. Choose the communication channel you created for the SAP ERP or SAP S/4HANA and SAP Integration Suite, managed gateway:
   - Communication Channel for the Sender
     - **Communication Channel**: Enter a name. For example, CC_Proxy_sender.
     - **Communication Component**: <Name of the Business System for SAP ERP or S/4HANA system>. For example, BS_Z74CLNT800.
   - Communication Channel for the Receiver
     - **Communication Channel**: <Name of the Business System for SAP ERP or S/4HANA system>. For example, BS_Z74CLNT800.
     - **Interface**: `CollectivePaymentOrderBulkRequest_Out`
     - **Namespace**: `http://sap.com/xi/ARBCIG1`
     - **Communication Component**: Enter a value. For example, CC_CIG_SOAP_Receiver_P000265_XI.
5. Activate the integration scenario.

   For more information about configuring your SAP Process Integration, see SAP Integration Suite, Managed Gateway Installation Guide.

Service Sheet Response

For any prerequisites and limitations of the transaction, read Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide.

Configuring Service Sheet Response in SAP ERP and SAP S/4HANA [page 323]

Configuring Service Sheet Response in SAP ERP and SAP S/4HANA

The following sections describe the procedures to configure service sheet response in SAP ERP and SAP S/4HANA for integration with SAP Business Network:

Defining Message Output Control for Service Sheet Response [page 324]

Maintaining Parameters for Service Sheet Response [page 326]

Implementing Enhancements for Revoking Previously Accepted Service Sheets [page 326]

Maintaining Event Linkages to Generate Service Sheet Responses [page 327]

Defining Message Output Control for Service Sheet Response

Context

In this customizing activity, you can define how documents that have been created or changed in SAP ERP or SAP S/4HANA are transferred to SAP Business Network.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Service Sheet Response** > .
4. Click **IMG-Activity** for **Define Message Output Control for Service Sheet Response**.

   The **Conditions for Output Control** screen appears.
5. Select application **ES** and click **Output types**.

   The **Display View "Output Types": Overview** screen appears.
6. Click **NEU**, for example, and click **Change**.

   The **Change View "Output Types": Overview** screen appears.
7. Double-click **NEU**, for example.

   The **Change View "Output Types": Details** screen appears.
8. On the **General Data** tab, for **Access sequence** choose **0001 DocType/PurchaseOrg/Vendor**.
9. On the **Default values** tab, create an entry as follows:
   - **Dispatch time**: `Send immediately (when saving the application)`
   - **Transmission Medium**: `8 (special function)`
   - **Partner Function**: LS
10. Click Save and go back to the **Display View "Output Types": Overview** screen.
11. Click **NEU**, for example, and then double-click **Processing routines**

    The **Display View "Processing routines": Overview** screen appears.

12. In the **Processing routines** section, create an entry as follows:
    - **Transmission Medium**: `8 (special function)`
    - **Program**: `ARBCIG_ENTRYSHEET_UPDATE`
    - **FORM routine**: `SEND_ENTRYSHEET_RESPONSE`
    - Save the entry.
13. Click **NEU**, for example, and then double-click **Partner Functions**.

    The **Display View "Partner functions": Overview** screen appears.
14. In the **Partner Functions** section, create an entry as follows:
    - **Medium**: `8 (special function)`
    - **Function**: `LS`
15. Save the entry and go back to the **Conditions for Output Control** screen.
16. Select application **ES** and click **Condition records**.

    The **Output Types** popup appears.
17. Click **NEU**, for example, and then click **Condition records**.

    The **Key Combination** popup appears.
18. Maintain the required key combination for **Purchasing Output Determination: Document Type**:
19. Click **Enter**.

    The **Change Entry of Srvc Pr (NEU) Selection** screen appears.
20. Click **Execute**.

    The **Change Condition Records (Entry of Srvc Prfrmd): Fast Change** screen appears.
21. Enter the following information:
    - **Document Type**: NB, for example.
    - **Partner Function**: LS.
    - **Partner Number**: 1000, for example
    - **Medium**: 8 (special function)
    - **Date/Time**: 4 (when the application is saved)
22. Click **Save**.

Maintaining Parameters for Service Sheet Response

Context

To maintain the parameters required for service sheet response, perform the following steps:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Service Sheet Response**.
4. Click **IMG-Activity** for **Maintain Parameters for Service Sheet Response**.

   The **Parameters - Service Sheet Response** screen appears.
5. Maintain the following parameters:

   Table 21: Parameters for Service Sheet Response

Parameter name	Description	Supported values
SES_RESPONSE_ENABLED	Enable or disable the Ariba provided enhancements for service sheet response.	• **Variable Name**: SES_RESPONSE_ENABLED • **Field Name**: Leave it empty. • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable).

Implementing Enhancements for Revoking Previously Accepted Service Sheets

Applies to the buyers using the SAP Integration Suite, managed gateway, Release 2008 (Q3 2020) or earlier versions.

Context

When you revoke previously accepted service sheets in SAP ERP, you are required to enhance the SAP standard function module `MS_UPDATE_SERVICE_ENTRY` to ensure that the status of service sheets on the SAP Business Network changes to **Sent**.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Service Sheet Response**.
4. Click **IMG-Activity** for **Implement Enhancements for Revoking Previously Accepted Service Sheets**.

   The **Function Builder** screen appears
5. Enter **MS_UPDATE_SERVICE_ENTRY** in the **Function Module** field and click **Display**.
6. Click **Enhance** in the application toolbar.
7. Click **Edit** > **Enhancement Operations** > **Show Implicit Enhancement Options**.

   The **Function Builder: Change Enhancements** screen appears
8. Right-click the last line in the **Function Module** and select **Enhancement Implementation** > **Create**.

   Choose Type of Enhancement screen appears.
9. Click **Code** to display **Select or Create Enhancement Implementation**.
10. Click **Create Enhancement Implementation**.
11. Enter a name and description for the enhancement and press Enter.

    The **Package** screen appears.
12. Specify Z or Y package, press **Enter**, and save the package to a transport request.
13. Paste the following code:

```
Include ARBCIG_SES_REVOKE_ENHAN IF FOUND
```

14. Activate the Enhancement.

Maintaining Event Linkages to Generate Service Sheet Responses

Applies to the buyers using the SAP Integration Suite, managed gateway, Release 2011 (Q4 2020) or later versions.

Context

Starting SAP Integration Suite, managed gateway, Release 2011 (Q4 2020), you can create and activate the SES_RESPONSE_AN event type linkage to generate service entry sheet responses after you revoke or delete service entry sheets.

> **Note**
>
> SAP Ariba recommends that you use the event configuration in place of implicit enhancement. If you have already implemented the implicit enhancement in the function module, `MS_UPDATE_SERVICE_ENTRY` to generate service sheet response, you must remove that implementation before you perform this task.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** page appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Service Sheet Response**
4. Click **IMG-Activity** for **Maintain Event Linkages to Generate Service Sheet Responses**.

   The **Change View "Event Type Linkages": Overview** page appears.
5. Click **New Entries**.

   The **New Entries: Details of Added Entries** page appears.
6. Enter the following information and click **Save**:
   - Object Category: BOR Object Type
   - Object Type: BUS2091
   - Event: CREATED
   - Receiver Type: SES_RESPONSE_AN
   - Receiver Call: Method
   - Class Name: CL_ARBCIG_TRIGGER_SES_RESPONSE
   - Interface Name: BI_EVENT_HANDLER_STATIC
   - Method Name: ON_EVENT
   - Event delivery: Using tRFC(Default)
   - Check the **Linkage Activated** checkbox
   - Behavior Upon Error Feedback: System defaults
   - Receiver Status: No errors
7. Configure the create and change events for the ERP-initiated service entry sheets. For more information, see Configuring the Create and Change Events for the ERP-Initiated Service Entry Sheets [page 283].

Payment Proposal

For any prerequisites and limitations of the transaction, read Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide.

Configuring Payment Proposal in SAP ERP and SAP S/4HANA [page 329]

Configuring Payment Proposal in SAP ERP and SAP S/4HANA

The following sections describe the procedures to configure payment proposal in SAP ERP and SAP S/4HANA for integration with SAP Business Network:

Maintaining Parameters for Payment Proposal [page 329]

Maintaining Date and Time for Payment Proposal [page 332]

Scheduling Job for Payment Proposal [page 333]

Maintaining Parameters for Payment Proposal

Context

To maintain the parameters required for payment proposal, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Payment Proposal**.
4. Click **IMG-Activity** for **Maintain Parameters for Payment Proposal**.

   The **Parameters - Payment Proposal** screen appears.
5. Maintain the following parameters:

Table 22: Parameters for Payment Proposal

Parameter name	Description	Supported values
AVOID_DUPLICATE_ISU_PP	To ensure that duplicate entries for payment proposal are not sent to SAP Business Network. This parameter ensures that duplicate entries for payment proposal and invoice status update are not sent to SAP Business Network. If you do not maintain this parameter, duplicate entries for payment proposal and invoice status update are sent to SAP Business Network if:: • An invoice is changed on 22.04.2012 and the PP and ISU are sent to SAP Business Network on 22.04.2012 and the PP and ISU programs are run on the same date 22.04.2012. • The PP and ISU for an invoice are already sent to SAP Business Network and a user changes a field that does not affect the PP or ISU for example, Vendor Text, and runs the PP and ISU programs.	• **Variable Name**: AVOID_DUPLICATE_ISU_PP • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable).
PP_TAX_INFO	To process taxes and discounts in payment proposals.	• **Variable Name**: PP_TAX_INFO • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable).

Parameter name	Description	Supported values
NET_DISCOUNT_DAYS	To pay only on or after the due date without any discount. To maintain a date that is greater than 999 days on non-PO invoices, maintain this parameter as **X**.	• **Variable Name**: NET_DISCOUNT_DAYS • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable).
INVOICE_DOC_OPTION	To send the XBLNR – reference document number as the invoice ID to SAP Business Network.	• **Variable Name**: INVOICE_DOC_OPTION • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: XBLNR, for example
INVOICE_DOC_TYPE	Stores doc types for payment proposals. To specify another general document type for invoices, for example, **RE**. Create the same variable and field name as **RE** in another row and increment the **Number** value to **2** with the selection value as **RE**. To store non-PO invoices created in SAP ERP or SAP S/4HANA and reversed or canceled using FB08 (KA) and FI invoices (non-PO invoices).	• **Variable Name**: INVOICE_DOC_TYPE • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: RE, for example.
INVOICE_DOC_TYPE_PARTIAL	To store doc type required for partial payment for invoice status update. To specify another doc type required for partial payment for invoice status update, for example, **KZ**. Create the same variable and field name as **KZ** in another row and increment the **Number** value to **2** with the selection value as **KZ**.	• **Variable Name**: INVOICE_DOC_TYPE_PARTIAL • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: KZ or KA, for example.

Parameter name	Description	Supported values
CHECK_ARIBA_ASN	Maintain this parameter to send the status of the invoices that originated on SAP Business Network and the associated payment proposals. Both the payment proposal and Invoice Status Update transaction document use the ARIBA_ASN parameter. Ensure that you maintain this parameter for both the payment proposal and invoice status update document transactions.	• **Variable Name**: CHECK_ARIBA_ASN • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable).
DISCOUNT_BASE_WITH_NO_TAX	The parameter specifies the company codes for which the tax amount is excluded from the discount base amount. **Note** If you do not enter any company code, **DISCOUNT_BASE_WITH_NO_TAX** is disabled. You maintain this parameter only for those company codes where standard SAP (based on configuration) did not exclude the tax amount from the discount base amount.	• **Variable Name**: DISCOUNT_BASE_WITH_NO_TAX • **Field Name**: Leave it empty • **Number**: 0000 • **Low**: Company Code Value

Maintaining Date and Time for Payment Proposal

Context

Maintain date and time for payment proposal to fetch payment proposal incrementally from the last fetched date and time. This is a one-time activity for new customers

To configure date and time for payment proposal, perform the following steps:

> **Note**
>
> In this configuration task, you maintain the data in the `ARBCIG_PRXYPARAM` table. To use this table in a new SAP system landscape, you must maintain the data manually.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Payment Proposal**.
4. Click **IMG-Activity** for **Maintain Parameters for Payment Proposal**.

   The **Change View "Table to store Proxy Parameters for ISU, PP, ERPCC, Recei** screen appears.
5. Click **New Entries**.

   The **New Entries: Overview of Added Entries** screen appears.
6. From the **Document Type** dropdown, choose **Payment Proposal** and maintain **Date** and **Time**.

Scheduling Job for Payment Proposal

Context

To send payment proposal to SAP Business Network, you are required to schedule the report `ARBCIG_PAYMENTPROPOSAL_EXPORT`. The report then records payment proposal of open invoices in SAP ERP or SAP S/4HANA and ensures that the messages are triggered. The report determines the payment proposals of open invoices since the last report run and triggers sending of the payment proposal messages.

To schedule job for payment proposal, perform the following steps:

Procedure

1. Run the transaction code `SM36`.

   The **Define Background Job** screen appears.
2. In the **Program** field, enter **`ARBCIG_PAYMENTPROPOSAL_EXPORT`**.

3. Schedule the program.
   The ARBCIG_PAYMENTPROPOSAL_EXPORT report is scheduled.

> **Note**
>
> To send a payment proposal to SAP Business Network for a specific period, perform the following steps:
>
> 1. Run the transaction code `SE38`.
>   The **ABAP Editor: Initial Screen** appears.
> 2. In the **Program field**, enter `ARBCIG_PAYMENTPROPOSAL_EXPORT`.
>   The **Proxy for Payment Proposal outbound** screen appears.
> 3. In the **To Date and To Time** section, specify your end date and time. The start Date and Time are pre-populated.
> 4. Click **Execute**.

Inbound Transactions

SAP Integration Suite, managed gateway supports following inbound transactions from SAP Business Network to SAP ERP or SAP S/4HANA:

> **Note**
>
> MIME type document attachment with the same name as the inbound transaction is not supported.

Order Confirmation [page 334]

Order Confirmation Approval [page 339]

Order Confirmation for Scheduling Agreement and Scheduling Agreement Release [page 343]

Ship Notice [page 344]

Invoice [page 349]

Payment Receipt Confirmation Request [page 362]

Service Sheet [page 362]

Liability Transfer [page 365]

Component Consumption Request [page 369]

Product Replenishment Message [page 372]

Remittance Advice [page 374]

Replenishment Order [page 377]

Order Confirmation

For any prerequisites and limitations of the transaction, read the Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide.

Configuring Order Confirmation in SAP ERP and SAP S/4HANA [page 335]

Configuring Order Confirmation in SAP ERP and SAP S/4HANA

The following sections describe the procedures to configure order confirmation in SAP ERP and SAP S/4HANA for integration with SAP Business Network:

Maintaining Parameters for Order Confirmation [page 335]

Implementing the Customer Exit to Process Comments and Rejected Line Items [page 336]

Configuring the Confirmation Category for Order Confirmations [page 337]

Enabling Attachments for Order Confirmation [page 338]

Maintaining Parameters for Order Confirmation

Context

To maintain the parameters required for order confirmation, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Order Confirmation** > .
4. Click **IMG-Activity** for **Maintain Parameters for Order Confirmation**.

   The **Parameters - Order Confirmation** screen appears.
5. Maintain the following parameters:

Table 23: Parameters for Order Confirmation

Parameter name	Description	Supported values
OC_ENABLED	Enable or disable the Ariba provided enhancements for order confirmation.	• **Variable Name**: OC_ENABLED • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable).

Implementing the Customer Exit to Process Comments and Rejected Line Items

Context

To prevent errors while processing order confirmations containing line items with the `Rejected` status, you are required to implement the customer exit, `MM06E001`.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Order Confirmation**.
4. Click **IMG-Activity** for **Implement Customer Exit to Process Comments and Rejected Line Item**.

   The **Project Management of SAP Enhancements** screen appears.
5. Create a new customer exit. For example, `ZMMIDOC`.
6. Click **Create**.
7. Click the button **Enhancement Assignments** and then enter `MM06E001` as the user exit name.
8. Click **Enter**.
9. Go back and click the button **Components** and then double-click the enhancement name **EXIT_SAPLEINM_007**.
10. In the new screen that appears, double-click **INCLUDE ZXM06U19** and click **Enter**.
11. Enter the following include: **INCLUDE ARBCIG_INCL_ORDER_CONFIRM_01 IF FOUND**.
12. Click **Activate**.
13. Go back and click the button **Components** and then double-click the enhancement name **EXIT_SAPLEINM_008**.

14. In the new screen that appears, double-click **INCLUDE ZXM06U20** and click **Enter**.
15. Enter the following include: **INCLUDE ARBCIG_INCL_ORDER_CONFIRM_02 IF FOUND**.
16. Click **Activate**.
17. Go back and activate the user exit also.

Configuring the Confirmation Category for Order Confirmations

Context

Configure the confirmation category AB to process the time tolerances in order confirmations against purchase orders.

Procedure

1. Run the transaction code SPRO.
2. Go back to the Display IMG page.
3. Click the tree structure, **Materials Management** > **Purchasing** > **Confirmations** > **Set up Confirmation Control**.
4. Ensure that you specify the following values in the Change View Confirmation control keys:Overview window:
5. Click **Confirmation sequence** under the Dialog Structure tree view to view the confirmation control key sequence.
6. Click **New Entries**.
7. Enter the following values for the confirmation sequence:

    - **Conf. Category**: Enter AB.
    - **Description**: Enter Order acknowledgment.
    - **MRP-Relevant**: Check this field.
    - **GR-Relevant**: Do not check
    - **GR-Assignment**: Do not check
    - **Monitoring Pert**: Leave it blank.
    - **Ref. Date**: Leave it blank.
    - **VMat**: Check this checkbox to update the vendor material ID in the purchase order based on the supplier part Id received from An through the order confirmation document.

Enabling Attachments for Order Confirmation

Prerequisites

Before you activate the necessary event type linkage on SAP ERP or SAP S/4HANA to enable attachments for order confirmation, you must maintain the following two table entries in the maintenance table `ARBCIG_TVARV`:

Variable name	Supported values
DOCUMENT_TYPE	• **Variable Name** : DOCUMENT_TYPE • **Field Name**: Blank • **Type**: **P** • **Number**: **0** (zero) • **Variant**: Blank • **Partition**: Blank • **INCL/EXCL**: **I** • **Option**: **EQ** • **Low**: **DRW** • **High**: Blank
DMS_STORAGE_CATEGORY	• **Variable Name** : DMS_STORAGE_CATEGORY • **Field Name**: Blank • **Type**: **P** • **Number**: **0** (zero) • **Variant**: Blank • **Partition**: Blank • **INCL/EXCL**: **I** • **Option**: **EQ** • **Low**: **SAP-SYSTEM** • **High**: Blank

Context

To receive attachments and comments in order confirmations, ensure that you activate the necessary event type linkage on SAP ERP or SAP S/4HANA. You must create the event type linkage before you activate them.

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Order Confirmation** > .
4. Click **IMG-Activity** for **Enable Attachments for Order Confirmation**.

   The **Change View Event Type Linkages": Details** screen appears.
5. Double-click the following event type linkage:

   - **Object Category**: BOR Object
   - **ObjectType**: IDOCORDRSP
   - **Event**: INPUTSUCCESS
   - **Receiver Type**: ARBCIG_ORDRSP
   - **Receiver Call**: Method
   - **Class Name**: CL_ARBCIG_INB_IDOC_SUCS_EVENT
   - **Interface Name**: `BI_EVENT_HANDLER_STATIC`
   - **Method Name**: `ON_EVENT`
   - **Event delivery**: Using tRFC (Default)
   - **Behavior Upon Error Feedback**: 0 System defaults
   - **Receiver Status**: 0 No errors

   The **Change View Event Type Linkages": Details** window appears.
6. Check **Linkage Activated**.
7. Save the changes.

Order Confirmation Approval

For any prerequisites and limitations of the transaction, read Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide.

Configuring Order Confirmation Approval in SAP ERP and SAP S/4HANA [page 339]

Configuring Order Confirmation Approval in SAP ERP and SAP S/4HANA

The following sections describe the procedures to configure order confirmation approval in SAP ERP and SAP S/4HANA for integration with SAP Business Network:

Enabling the Web Service to Receive the Order Confirmation Approval from SAP Business Network [page 340]

Implementing the BAdI for Customizing the Order Confirmation Approval Process [page 340]

Creating a Pricing Requirement to Update Condition Types [page 341]

Using the Requirement for the Condition Types EDI-1 and EDI-2 [page 342]

Enabling the Web Service to Receive the Order Confirmation Approval from SAP Business Network

To enable the web service for receiving the order confirmation approval from SAP Business Network, check **Order Confirmation Approval** on the **Interface Setup Integration** page under **SAP Business Network Integration**. For more information, see Configuring the Connections to Send Messages [page 29]

Implementing the BAdI for Customizing the Order Confirmation Approval Process

Context

You can implement the BAdI **ARBCIG_ORDER_CONFRMN_APRVL** to customize the order confirmation approval process.

Procedure

1. On the **SAP Easy Access** screen, run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other mySAP.com Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Business Add-Ins (BAdIs)** > **Order Confirmation Approval**.

   To see more information about the BAdI **ARBCIG_ORDER_CONFRMN_APRVL**, click the IMG activity documentation node of **BAdIs for Order Confirmation Approval**.
4. Implement the standard BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.

   BAdI name: **ARBCIG_ORDER_CONFRMN_APRVL**

Method	Description
PRE_PROCESSING_CONFRMN_UPD	To customize the purchase order confirmation flow.
PRE_PROCESSING_PO_UPD	To customize the purchase order change flow.
POST_PROCESSING	To customize the purchase order after the confirmation approval processing.

Creating a Pricing Requirement to Update Condition Types

Context

Create a pricing requirement to update amounts in the `EDI-1` (**Confirmed Price**) condition type when the price submitted by the supplier is out of tolerance specified in the purchase order.

The function of this requirement is similar to the function of the standard requirement `53`.

Procedure

1. On the **SAP Easy Access** screen, run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Order Confirmation Approval**.
4. Click **Requirement for updating conditiontype edi1 and edi2 with Price**.
5. On the **Requirements** menu, click **Pricing**.

   The **Maintain Requirements Pricing** screen appears.
6. In the **Maintain Requirements Pricing** screen, navigate to the bottom and do the following:

Option	Description
Routine number	Enter a new, unused routine number. For example, 905.
Description	Enter the description of the new routine number. For example, OCA
Application	Enter `M`.

7. Press **Enter**.

   The **Register Object** page appears. You must enter the access key on this page.

   > ### Note
   >
   > Ensure that you generate the access key for the routine. To generate the access key, register the object in the SSCR (SAP Software Change Registration) by providing the object name.

8. Enter the access key for the object and click **Continue**.
9. In the **Maintain: Requirements Pricing** page, highlight the row for the routine details that you have just entered, click the routine number, and click **Source text** on the application toolbar.

   The **ABAP Editor: Change Include RV61A<Routine Number>** screen appears.
10. Place the cursor after `FORM KOBED_<Routine number>` and press **Enter**.
11. Place the include `INCLUDE ARBCIG_OCA_REQUIREMENT`.

12. Place the cursor after `FORM KOBEV_<Routine number>`, press **Enter** and enter `sy-subrc = 0`.
13. Click **Save**.
14. Click **Program** > **Activate**.

Next Steps

After you create the pricing requirement to update the condition types, use the requirement for the condition types EDI-1 and EDI-2. For more information, see Using the Requirement for the Condition Types EDI-1 and EDI-2 [page 342]

Using the Requirement for the Condition Types EDI-1 and EDI-2

Prerequisites

Ensure the following:

- You have created the requirement for updating the condition types. For more information, see Creating a Pricing Requirement to Update Condition Types [page 341].
- Confirmation control keys used on purchase order items allow price deviations.

Context

After you create the new pricing requirement, you must use it for the condition types EDI-1 and EDI-2.

Procedure

1. On the **SAP Easy Access** screen, run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Material Management** > **Purchasing** > **Conditions** > **Define Price Determination Process**.
4. Click **Define Calculation Schema**.

   The **Change View: "Schemas": Overview** page appears.
5. In the **Schemas** table, click to highlight the row for the **RM000** procedure.
6. On the left panel, double-click **Control data**.
7. On the **Control data** table on the right panel, in the **CType** column, locate **EDI1** and **EDI2** and do the following:

- For **EDI1**, in the **Reqt** column, enter the routine number that you defined.
- For **EDI2**, do the following:
  - In the **Reqt** column, enter the routine number that you defined.
  - In the **CalType** column, enter **40**.

8. Click **Save**.

Order Confirmation for Scheduling Agreement and Scheduling Agreement Release

For any prerequisites and limitations of the transaction, read Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide.

Implementing Customer Exit to Override Tolerances on Order Confirmations for Scheduling Agreement Document and Scheduling Agreement Release Documents [page 343]

Implementing Customer Exit to Override Tolerances on Order Confirmations for Scheduling Agreement Document and Scheduling Agreement Release Documents

Context

To override the default quantity tolerance and time tolerance checks on order confirmations for scheduling agreement document and scheduling agreement release documents, you must implement the customer exit, `EXIT_SAPLEINM_009`.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen opens.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen opens.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Order Confirmation**.
4. Click **IMG-Activity** for **Implement Customer Exit to Override Quantity Tolerances for Scheduling Agreement/Release**.

The **Project Management of SAP Enhancements** screen opens.

5. Create a new customer exit. For example, Z0R.
6. Click **Create**.
7. On the menu bar, click **Utilities** > **Enhancement Assignments**, and then enter **`MM06E001`** as the user exit name.
8. Click **Enter**.
9. Go back and click **Components** and then double-click the enhancement name **EXIT_SAPLEINM_009**.
10. In the new screen that opens, double-click **INCLUDE ZXM06U21** and click **Enter**.
11. Enter the following include: **INCLUDE ARBCIG_INCL_ORDER_CONFIRM_04 IF FOUND**.
12. Click **Activate**.
13. Go back and activate the user exit.

Ship Notice

For any prerequisites and limitations of the transaction, read Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide.

Configuring Ship Notices in SAP ERP and SAP S/4HANA [page 344]

Configuring Packaging Information in Ship Notices [page 347]

Configuring Ship Notices in SAP ERP and SAP S/4HANA

The following sections describe the procedures to configure ship notice in SAP ERP and SAP S/4HANA for integration with SAP Business Network:

Receiving Ship Notices with Zero Quantities [page 345]

Configuring the BAdI for Ship Notices with Component Information [page 345]

Configuring Shipcontrol Level Comments [page 346]

Maintaining Carrier Information for Vendors [page 346]

Receiving Ship Notices with Zero Quantities

Context

To process ship notices with zero quantities sent from SAP Business Network, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Advance Ship Notice** >.
4. Click **IMG-Activity** for **Configure Advance Ship Notice to Receive Ship Notices with Zero Quantities**.

   The **Change View "Deliveries: Item Categories-picking": Overview** screen appears.
5. Click **Position** and then enter **ELN** as the **Item category**.
6. For **ELN**, ensure that the checkbox **Relevant for picking** is blank.
7. Click **Save**.

Configuring the BAdI for Ship Notices with Component Information

Context

Customize the component information by using the methods, `PRE_PROCESSING` and `POST_PROCESSING` in the BAdI, `ARBCIG_ADVANCE_SHIPMENT_NOTICE` with the parameter, `CT_LECOMP`. If you are a customer using SAP ERP 6.0 EhP4 and above and want to implement the BAdI, use the structure, `CT_LECOMP` that is declared as Type Ref to DATA. While implementing the BAdI, ensure that you configure the following:

Procedure

1. Declare a field symbol of type, `LECOMP_CONSUMPTION_T`. `<FT_LECOMP> TYPE LECOMP_CONSUMPTION_T`
2. Assign the data from `CT_LECOMP` to the field symbol. `ASSIGN CT_LECOMP->* TO <FT_LECOMP>.`
3. Use the internal table `<FT_LECOMP>` to make any modifications to the components.

Configuring Shipcontrol Level Comments

Context

You can add shipcontrol level comments in Advance Ship Notice by performing the following configuration.

Procedure

1. Logon to SAP Integration Suite, managed gateway.
2. Select your project and click **Edit**.
3. Select **Cross Reference** > **Parameters**.
4. Select **ShipNoticeRequest**.
5. In the **ShipControl TextID ASN** field, enter a text ID.
6. Click *Save*.

Maintaining Carrier Information for Vendors

Context

Buyers can maintain carrier details for vendors. This information will be used while creating ship notice on SAP Business Network.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Advance Ship Notice** > **Maintain Carrier Details for Vendors**.

4. Click **IMG-Activity** for **Maintain Carrier Details for Vendors**.

   The **Shipping Notification – Carrier Mapping** screen appears.
5. Click **New Entries**.
6. In the table, enter values for the following fields:

Option	Description
Ariba Carrier Domain	Enter the domain name for your carrier. For example, DUNS.
Ariba Carrier ID	Enter the carrier ID. For example, DHL.
Vendor	Enter the ERP vendor ID. For example, 10000.
Name	Enter a name.

7. Click **Save**.

Configuring Packaging Information in Ship Notices

Buyers integrated with SAP Business Network, SAP Business Network for Supply Chain for Buyers, and SAP Integration Suite, managed gateway can process handling units in the packaging information sent in ship notices from suppliers from SAP Business Network.

SAP Ariba recommends that you read Packaging Information with Handling Units in SAP Integration Suite, Managed Gateway Overview Guide for the prerequisites and limitations.

Exporting the Packaging Data for Handling Units to SAP Business Network [page 347]

Exporting the Packaging Data for Handling Units to SAP Business Network

Context

Buyers can run this task to export the packing instructions for material items available on the ERP system to SAP Business Network. The packing instructions for material items from the ERP system is saved as a Microsoft Excel file on your local system or the SAP application server. You can use this Microsoft Excel file with the required modifications to transfer the packaging information to SAP Business Network.

> → Remember
>
> Alternatively, you can use the template available on SAP Business Network to import the packing instructions to SAP Business Network.

Procedure

1. Do one of the following:

a. Perform the following steps to navigate to the **Export Packaging Data for Handling Units to SAP Business Network** node.
   - Run the transaction code `SPRO`.
     The **Customizing: Execute Project** screen appears.
   - Click **SAP Reference IMG**.
     The **Display IMG** screen appears.
   - Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Advance Ship Notice**.
   - Click **Export Packaging Data for Handling Units to SAP Business Network**.

b. Run the transaction code `ARBCIG_ASN_HU_EXP`.

The **Export Packaging Data for Handling Units to SAP Business Network** page appears.

2. On the **Export Packaging Data for Handling Units to SAP Business Network** page, enter the following details and click **Execute**.

Field	Description
File Path	Specify the file path to save the packing instructions for material items on your local system. **Note** Alternatively, you can specify the file path to save the packing instructions on the SAP application server. For more information, see the description for the **Application Server Path** field.
Filters	
Check Profile	Specify the check profile with which packing instructions are created.
Handling Unit Group 1	Use this field to filter packing instructions by Handling Unit Group 1.
Handling Unit Group 2	Use this field to filter packing instructions by Handling Unit Group 2.
Handling Unit Group 3	Use this field to filter packing instructions by Handling Unit Group 3.
Handling Unit Group 4	Use this field to filter packing instructions by Handling Unit Group 4.
Handling Unit Group 5	Use this field to filter packing instructions by Handling Unit Group 5.
Creation Date	Date of creation of the packing instructions.
Application Server Path	Enter the file path to save the packing instructions on the SAP application server. This path is mandatory when running the report in the background.
Extract Auxiliary Material with Assignment to Parent Packaging Material	Check this check box to extract the auxiliary packaging material with the assignment to parent packaging material.

Next Steps

- To use the Microsoft Excel file saved on the local system or the SAP application server after the required modifications to upload the packing instructions to SAP Business Network, see Using the Microsoft Excel File Saved on the Local System or the SAP Application Server to Upload the Packaging Information ToSAP Business Network [page 349]

Using the Microsoft Excel File Saved on the Local System or the SAP Application Server to Upload the Packaging Information ToSAP Business Network

Context

To use the Microsoft Excel file saved on the local system or the SAP application server to upload the packaging information to SAP Business Network, perform the following steps:

Procedure

1. Open the Microsoft Excel file containing packaging information, which is saved on the local system or the SAP application server.
2. Rename the Microsoft Excel file containing the packaging information as **`Instructions.xlsx`**.
3. Insert three blank rows above the current row number 1 in the Microsoft Excel file. This is required to accommodate the SAP Ariba banner as on the SAP Business Network template.
4. Save the Microsoft Excel file containing the changes.

> **Note**
>
> If you are using SAP ERP 6.0 EHP0 to EHP3, you must open the Microsoft Excel file and save the file as a Microsoft Excel Workbook (with the extension, *.xlsx).
>
> If you are using SAP ERP 6.0 EHP4 and later, the Microsoft Excel file is already available as a Microsoft Excel Workbook (with the extension, *.xlsx).

Invoice

For any prerequisites and limitations of the transaction, read Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide.

Invoice Configuration in SAP ERP and SAP S/4HANA [page 350]

Integration Configuration to Support Supplier's Invoice Against the Buyer's Consignment Withdrawal [page 356]

Integration Configuration to Support Supplier's Non-PO Invoices with the Buyer's SAP ERP or SAP S/4HANA as FI-Invoices [page 359]

Invoice Configuration in SAP ERP and SAP S/4HANA

The following sections describe the procedures to configure invoice in SAP ERP and SAP S/4HANA for integration with SAP Business Network:

Maintaining Parameters for Invoice [page 350]

Maintaining SAP Company Code for Each of the Partners [page 351]

Maintaining Tax Code Between the External System and SAP Tax Codes [page 352]

Maintaining the Posting Keys and Document Types for Each Company Code [page 352]

Implementing Customer Exit for Invoices [page 353]

Enabling Attachments and Comments for Invoices [page 354]

Maintaining Invoice Parties in Buyer's SAP ERP for Mapping to cXML Partners in SAP Integration Suite, Managed Gateway [page 355]

Maintaining Parameters for Invoice

Context

To maintain the parameters required for invoice, perform the following steps:

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Invoice**.
4. Click **IMG-Activity** for **Maintain Parameters for Invoice**.

   The **Parameters - Invoice** screen appears.
5. Maintain the following parameters:

Table 24: Parameters for Invoice

Parameter name	Description	Supported values
INVOICE_ENABLED	Enable or disable the Ariba provided enhancements for invoice.	• **Variable Name**: INVOICE_ENABLED • **Field Name**: Leave it empty. • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable).
INVOICE_PARK_NO_ACC	Enable or disable the parking of non-PO invoices without accounting details received from SAP Business Network.	• **Variable Name**: INVOICE_PARK_NO_ACC • **Field Name**: Leave it empty. • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable).
INV_HDR_PRK_NOSES_POGRX_ENB	Enable or disable the SAP Ariba provided enhancements to park the invoice created directly from a service purchase order before initiating the service entry sheet.	• **Variable Name**: INV_HDR_PRK_NOSES_POGRX_ENB • **Field Name**: Leave it empty. • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable).

Maintaining SAP Company Code for Each of the Partners

Context

To maintain an external company code for each of the SAP company codes, perform the following steps:

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Invoice**.
4. Click **IMG-Activity** for **Maintain SAP Company Code for Each of the Partners**.

   The **Change View "EDI: Assign Name in the Invoice <-> Company Code": Overvi** screen appears.
5. Maintain SAP company code for each of the partners and save.

Maintaining Tax Code Between the External System and SAP Tax Codes

Context

To maintain tax code between an external system and SAP tax codes, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Invoice**.
4. Click **IMG-Activity** for **Maintain Tax Code Between the External System and SAP Tax Codes**.

   The **Change View "EDI: Conversion of External Tax Rate<->Tax Code": Overv** screen appears.
5. Click **New Entries** to add external tax details and save.

Maintaining the Posting Keys and Document Types for Each Company Code

Context

When SAP ERP or SAP S/4HANA receives invoices from SAP Business Network, it creates and stores the invoice through the IDoc. To create and store invoices successfully in the IDoc, follow these steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Invoice**.

4. Click **IMG-Activity** for **Maintain the Posting Keys and Document Types for Each Company Code**.

   The **Change View "EDI-INVOIC: Program Parameters": Overview** screen appears.
5. Create an entry at the vendor or logical system level in the **Partn. Type** field.
6. Enter the partner number and company code.
7. Enter a value for the following keys in the **Posting Details** section:
   - **G/L db.pstg ky**: Enter a value for the general ledger debit memo posting key. For example, 40.
   - **G/L cr.pstng ky**: Enter a value for the general ledger credit memo posting key. For example, 50.
   - **Vend deb.pstng ky**: Enter a value for the debit memo posting key for the vendor. For example, 21.
   - **Vend cred.pstng ky**: Enter a value for the credit memo posting key for the vendor. For example, 31.
   - **Invoice doc. type**: Enter a value for the document type. For example, RE.
   - **Cred.memo doc. type**: Enter a value for the document type. For example, KG.
8. Save the changes.

Implementing Customer Exit for Invoices

Context

Implement this customer exit for invoices that contain service line items or non-PO invoices with shipping and handling charges. The customer exits under the enhancement `MRMH0002` are updated to integrate the parking of non-PO invoices without accounting details received from SAP Business Network.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Invoice**.
4. Click **IMG-Activity** for **Implement Customer Exit for Invoices with Service Type Line Items**.

   The **Project Management of SAP Enhancements** screen appears.
5. Enter a name in the **Project** field. For example, `ZMRMH`. If you already have an existing SAP project for enhancement `MRMH0002`, use the same project.
6. Click **Create** and enter a description in the **Short Text** field.
7. Click **Save**.
8. Click **Enhancement assignments**. The **Create Object Directory Entry** screen appears.

9. Choose the package.
10. Save the changes. The **SAP Enhancements in Enhancement Project** <object name> page appears.
11. Enter `MRMH0002` in the **Enhancement** field and then press **Enter**.
12. Click **Components**.
13. Double-click **EXIT_SAPLMRMH_011**. The program **INCLUDE - ZXM08U22** appears.
14. Double-click **INCLUDE - ZXM08U22** in the **Function Builder: Display EXIT_SAPLMRMH_011** page to create the program.
15. Enter the following include:**INCLUDE ARBCIG_INCL_INCOMING_INVOICE01 IF FOUND**.
16. Repeat step 7 through step 10 to create the customer exit for `EXIT_SAPLMRMH_014` for program INCLUDE ZXM08U25.
17. Enter the following include:**INCLUDE ARBCIG_INCL_INCOMING_INVOICE03 IF FOUND**.
18. Repeat step 7 through step 10 to create the customer exit for `EXIT_SAPLMRMH_015` for program INCLUDE ZXM08U26.
19. Enter the following include:**INCLUDE ARBCIG_INCL_INCOMING_INVOICE02 IF FOUND**.
20. Save the entries.
21. Click the **Activate** button to go back to the **CMOD** screen.
22. Activate the customer exit in the **CMOD** screen.

Enabling Attachments and Comments for Invoices

Context

To receive attachments and comments in invoices, ensure that you activate the necessary event type linkage on your SAP ERP system. You must create the event type linkage before you activate them.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Invoice**.
4. Click **IMG-Activity** for **Maintain Event Type Linkages for Invoices**.

   The **Change View "Event Type Linkages": Details** screen appears.
5. Double-click the following event type linkage:

- **Object Category**: BOR Object
- **ObjectType**: IDOCINVOIC
- **Event**: INPUTSUCCESS
- **Receiver Type**: ARBCIG_INVOIC
- **Receiver Call**: Method
- **Class Name**: CL_ARBCIG_INB_IDOC_SUCS_EVENT
- **Interface Name**: `BI_EVENT_HANDLER_STATIC`
- **Method Name**: `ON_EVENT`
- **Event delivery**: Using tRFC (Default)
- **Behavior Upon Error Feedback**: 0 System defaults
- **Receiver Status**: 0 No errors

The **Change View "Event Type Linkages": Details** window appears.

6. Check **Linkage Activated**.
7. Save the changes.

Maintaining Invoice Parties in Buyer's SAP ERP for Mapping to cXML Partners in SAP Integration Suite, Managed Gateway

Context

In SAP Integration Suite, managed gateway, you can change the default vendor ID or invoicing party ID in the invoice from SAP Business Network to another invoicing party ID, which is different from the one specified in the purchase order. For this, you must configure the alternative invoicing party ID in the **ERP Invoicing Party** field of the `Incoming Invoice: Map cXML Partner to ERP Invoicing Party` table in the buyer's SAP ERP.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Invoice**
4. Click **IMG-Activity** for **Map cXML Partner to ERP Invoicing Party**.

   The **Change View "Incoming Invoice: Map cXML Partner to ERP Invoicing Party"** screen appears.
5. In the **Incoming Invoice: Map cXML Partner to ERP Invoicing Party** table, enter information in the following fields and click **Save**:

cXML VendorID in 'From' 'Credential'	Enter the vendor ID of the SAP Business Network supplier.
Name of cXML Inv. Partner (Role 'From')	Enter the `RemitTo` name of the SAP Business Network supplier.
ERP Invoicing Party	Enter the invoicing party ID to which you want to send the incoming invoice from SAP Business Network.
Name of ERP Invoicing Party	This field is auto-populated with the name of the ERP invoicing party after you enter the ID in the **ERP Invoicing Party** field.
Reverse Mapping	Check the checkbox against the invoicing party ID that you entered if you want to send the ERP-initiated invoices, payment remittance, canceled payment remittance, payment proposal, and invoice status updates to the vendor ID or the invoicing party ID specified in the purchase order.

Integration Configuration to Support Supplier's Invoice Against the Buyer's Consignment Withdrawal

Along with the tasks listed in this section, you must also perform the following tasks in SAP Integration Suite, managed gateway:

- Set up cross-reference parameters for the FIInvoiceDetailRequest document type. For more information, see Setting Up Cross-Reference Parameters for the FIInvoiceDetailRequest Document Type in SAP Integration Suite, Managed Gateway [page 566]
- Define values in the lookup table for the FIInvoiceDetailRequest document type. For more information, see Defining Values in the Lookup Table [page 567]

Forward error handling has been enabled for this featue. For more nformation, see Forward Error Handling for Inbound Transactions [page 706]

To configure integration to support supplier's invoice against the buyer's consignment withdrawal, do the following tasks:

Maintaining Parameters for Integrating the Supplier-Created Consignment Invoice

Context

To maintain the parameters required for integrating the supplier-created consignment invoice with buyer's SAP ERP or SAP S/4HANA, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** page appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Invoice** > **Consignment Invoice**.
4. Click **IMG-Activity** for **Maintain Parameters**.

   The **Parameters - Consignment Invoice** page appears.
5. Maintain the following parameters

   Table 25: Parameters for Integrating Consignment Invoice

Parameter Name	Description	Supported Values
FIINVOICE_ENABLED	Enable or disable the SAP Ariba provided implementation in the `EXIT_RMVKON00_001` exit for the consignment invoices.	• **Variable Name**: FIINVOICE_ENABLED • **Field Name**: Leave it empty. • **Number**: 0000 • **Low**: X (to enable) or leave it blank (to disable).

Implementing Customer Exit for Integrating the Supplier-Created Consignment Invoice

Context

Implement this customer exit to support the integration of the supplier-created consignment invoice with the buyer's SAP ERP or SAP S/4HANA.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** page appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Invoice** > **Consignment Invoice**.
4. Click **IMG-Activity** for **Implement Customer Exit**.

   The **Project Management of SAP Enhancements** page appears.
5. In the **Project** field, enter a name. For example, **`ZOR`**. If you already have an existing SAP project for enhancement `RMVKON00`, use the same project.
6. Click **Create**.
7. In the **Short Text** field, enter a description and click **Save**.
8. Click **Enhancement assignments**. The **Create Object Directory Entry** page appears.
9. Choose the package.
10. Save the changes.

    The **SAP Enhancements in Enhancement Project <Project name>** page appears.
11. In the **Enhancement** field, enter **`RMVKON00`** and press **Enter**.
12. Click **Components**.
13. Double-click the enhancement name `EXIT_RMVKON00_001`.

    The program `INCLUDE ZXM08U11` appears.
14. On the page to create the program, double-click **INCLUDE ZXM08U11**.
15. Enter the include: `INCLUDE ARBCIG_INCL_ERPFI_CONS_INVC01 IF FOUND.`
16. Save the changes in ZXM08U11.
17. Click **Activate** to go back to the **Display < Project Name>** page.
18. Switch to change mode. In the **Change <Project Name>** page, click **Activate** to activate the enhancements.

Implementing BAdI for the Supplier-Created Consignment Invoice

Context

You can implement the `ARBCIG_CONS_FI_INVOICE` BAdI to customize the consignment invoice before and/or after its creation.

Procedure

1. On the **SAP Easy Access** page, run the transaction code `SPRO`.

   The **Customizing: Execute Project** page appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Business Add-Ins (BAdIs)** > **Invoice** > **Consignment Invoice**.

   To see more information about the `ARBCIG_CONS_FI_INVOICE` BAdI, click the IMG activity documentation node of **BAdIs for Consignment Invoice**.
4. Implement the standard BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.

   BAdI name: `ARBCIG_CONS_FI_INVOICE`

Method	Description
`PREPROCESS_INVOICE_CREATE`	For any kind of customization before the creation of the consignment invoice.
`POSTPROCESS_INVOICE_CREATE`	For any kind of customization after the creation of the consignment invoice.
`PRE_VALIDATE_INVOICE`	For any kind of customization in overriding validations performed before the creation of the consignment invoice.

Integration Configuration to Support Supplier's Non-PO Invoices with the Buyer's SAP ERP or SAP S/4HANA as FI-Invoices

Along with the tasks listed in this section, you must also perform the following tasks in SAP Integration Suite, managed gateway:

- Set up cross-reference parameters for the FIInvoiceDetailRequest document type. For more information, see Setting Up Cross-Reference Parameters for the FIInvoiceDetailRequest Document Type in SAP Integration Suite, Managed Gateway [page 566]
- Define values in the lookup table for the FIInvoiceDetailRequest document type. For more information, see Defining Values in the Lookup Table [page 567]

Forward error handling has been enabled for this featue. For more nformation, see Forward Error Handling for Inbound Transactions [page 706]

To configure integration to support supplier's non-PO invoices with the buyer's SAP ERP or SAP S/4HANA as FI-invoices, do the following tasks:

Maintaining Parameters for the Integration to Support Supplier's Non-PO Invoices with the Buyer's SAP ERP or SAP S/4HANA as FI-Invoices

Context

To maintain the parameters required for integrating the non-PO invoices and non-PO credit memos that the supplier has created in SAP Business Network with buyer's SAP ERP or SAP S/4HANA as FI-invoices and FI credit memos, perform the following steps:

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** page appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Invoice** > **FI Invoice**.
4. Click **IMG-Activity** for **Maintain Parameters**.

   The **Parameters - FI Invoice** page appears.
5. Maintain the following parameters:

   Table 26: Parameters for Integrating Non-PO Invoices and Non-PO Credit Memos

Parameter Name	Description	Supported Values
FI_CRDMEM_DOC_TYPE	Create the inbound non-PO credit memo with a specific document type. If no document type is maintained, KG is considered as the document type for creating the non-PO-credit memo.	• **Variable Name**: FI_CRDMEM_DOC_TYPE • **Field Name**: Leave it empty. • **Number**: 0000 • **Low**: KG (for example).

Parameter Name	Description	Supported Values
FI_INV_DOC_TYPE	Create the inbound non-PO invoice with a specific document type. If no document type is maintained, KR is considered as the document type for creating the non-PO invoice.	• **Variable Name**: FI_INV_DOC_TYPE • **Field Name**: Leave it empty. • **Number**: 0000 • **Low**: KR (for example).

Implementing BAdI for the Integration to Support Supplier's Non-PO Invoices with the Buyer's SAP ERP or SAP S/4HANA as FI-Invoices

Context

You can implement the `ARBCIG_FI_INVOICE` BAdI to customize the FI-invoices received from SAP Business Network.

Procedure

1. On the **SAP Easy Access** page, run the transaction code `SPRO`.

   The **Customizing: Execute Project** page appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Business Add-Ins (BAdIs)** > **Invoice** > **FI Invoice** >.

   To see more information about the `ARBCIG_FI_INVOICE` BAdI, click the IMG activity documentation node of **BAdIs for FI Invoice**.
4. Implement the standard BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.

   BAdI name: `ARBCIG_FI_INVOICE`

Method	Description
`PRE_PROCESSING`	For any kind of customization before parking or posting the FI invoice received from SAP Business Network.
`POST_PROCESSING`	For any kind of customization after parking or posting the FI invoice received from SAP Business Network.

Payment Receipt Confirmation Request

For any prerequisites and limitations of the transaction, read the Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide.

Implementing the BAdI for Payment Receipt Confirmation Request

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** page appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. In SAP Business Network, navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Business Add-Ins (BAdIs)** > **Payment Receipt Confirmation** > **BAdIs for Payment Receipt Confirmation** .
4. Click **IMG-Activity** for **BAdIs for Payment Receipt Confirmation**.

   The **BAdI Implementations: Implementations for BAdI Definition ARBCIG_PAYMENT_RCPT_CONF_REQ** page appears.
5. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI
   - BAdI name: `ARBCIG_PAYMENT_RCPT_CONF_REQ`

   The following table lists methods that you can implement:

Method	Description
PAYMENT_RCPTCONFREQ_PROCESS	To customize the payment receipt confirmation that SAP ERP receives from SAP Business Network.
ERROR_HANDLING	To customize the error messages that the buyer discards using the Forward Error Handling (FEH) on the SAP ERP system.
MESSAGE_CANCEL	To customize the error messages that the buyer confirms using the Forward Error Handling (FEH) on the SAP ERP system.

Service Sheet

For any prerequisites and limitations of the transaction, read Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide.

Service Sheet Configuration in SAP ERP and SAP S/4HANA [page 363]

Service Sheet Configuration in SAP ERP and SAP S/4HANA

The following sections describe the procedures to configure service sheets in SAP ERP and SAP S/4HANA for integration with SAP Business Network:

Maintaining Parameters for Service Sheet [page 363]

Implementing the BAdI to Customize the Service Sheet Cancelation Process [page 364]

Maintaining Parameters for Service Sheet

Use this procedure to maintain the parameters for service sheet.

Context

To maintain the parameters required for service sheet, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Service Sheet** > .
4. Click **IMG-Activity** for **Maintain Parameters for Service Sheet**.

   The **Parameters - Service Sheet** screen appears.
5. Maintain the following parameters:

Table 27: Parameters for Service Sheet

Parameter name	Description	Supported values
ENTRYSHEET_CREATE	In some cases, the SAP ERP or SAP S/4HANA systems fail while processing multiple service sheets for the same purchase order service type item. To prevent failures while processing multiple service sheets, SAP Ariba recommends that you specify a time-out duration. This time-out duration ensures that no resources stay locked on the SAP ERP and SAP S/4HANA system. Enter the value in seconds.	• **Variable Name** : ENTRYSHEET_CREATE • **Field Name** : TIMEOUT • **Number** : 0000 • **Low** : 20, for example.

Implementing the BAdI to Customize the Service Sheet Cancelation Process

Use this procedure to implement the BAdI to customize the service sheet cancelation process.

Context

To customize the data on the service sheet in SAP ERP or SAP S/4 HANA before deleting it and/or to customize the action after deleting the service sheet, implement the ARBCIG_SES_DELETE BAdI.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** page appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Based on where you want to cancel service sheets, do one of the following:
   - In SAP Business Network, navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Business Add-Ins (BAdIs)** > **Service Sheet** .

- In SAP Ariba Procurement solutions, navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Business Add-Ins (BAdIs)** > **Service Entry Sheet**.

4. Click **IMG-Activity** for **BAdIs for Service Sheet Delete**.

   The **BAdI Implementations: Implementations for BAdI Definition ARBCIG_SES_DELETE** page appears.

5. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI
   - BAdI name: `ARBCIG_SES_DELETE`

   The following table lists methods that you can implement:

Method	Description
UPDATE_SES_DELETE	To customize the data on the service sheet in SAP ERP before deleting it.
POST_PROCESSING	To customize the action after deleting the service sheet.

Liability Transfer

For any prerequisites and limitations of the transaction, read Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide.

Liability Transfer Configuration in SAP ERP and SAP S/4HANA [page 365]

Liability Transfer Configuration in SAP ERP and SAP S/4HANA

The following sections describe the procedures to configure liability transfer in SAP ERP and SAP S/4HANA for integration with SAP Business Network:

Maintaining Parameters for Liability Transfer [page 366]

Maintaining SAP Vendor to Funder Details [page 368]

Maintaining Payment Method for Supply Chain Finance [page 369]

Maintaining Parameters for Liability Transfer

Use this procedure to maintain parameters for liability transfer.

Context

To maintain the parameters required for liability transfer, perform the following steps:

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Liability Transfer** >.
4. Click **IMG-Activity** for **Maintain Parameters for Liability Transfer**.

   The **Parameters - Liability Transfer** screen appears.
5. Maintain the following parameters:

   Table 28: Parameters for Liability Transfer

Parameter name	Description	Supported values
LIABILITY_INV_DOC_TYPE	To maintain separate document type after creating remittance without considering PPR and ISU. Do not use this document type to create normal invoices. **Note** You are required to specify the value.	• **Variable Name**: LIABILITY_INV_DOC_TYPE • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: AB, for example.

Parameter name	Description	Supported values
LIABILITY_POST_KEY	To generate the transfer liability invoice with specific posting key by calling the BTE `RWBAPI01` while maintaining the required posting key in the table. This is required as the BAPI `BAPI_ACC_DOCUMENT_POST` function module does not have the input parameter to pass the required posting keys and therefore the invoice is generated with default posting keys which are based on the Document type and Account type **Note** You are required to specify the value.	• **Variable Name**: LIABILITY_POST_KEY • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: 27, for example.
LIABILITY_POST_KEY_CREDIT	To generate the credit document with specific posting key by calling the BTE `RWBAPI01` while maintaining the required posting key in the table. This is required as the BAPI `BAPI_ACC_DOCUMENT_POST` function module does not have the input parameter to pass the required posting keys and therefore the invoice is generated with default posting keys which are based on the Document type and Account type **Note** You are required to specify the value.	• **Variable Name**: LIABILITY_POST_KEY_CREDIT • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: 32, for example.

Maintaining SAP Vendor to Funder Details

Use this procedure to maintain SAP vendor to funder details.

Context

To maintain relationship between SAP vendor and funder, perform the following steps:

> **Note**
>
> In this configuration task, you maintain the data in the `ARBCIG_FUNDER` table. To use this table in a new SAP system landscape, you must maintain the data manually.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Liability Transfer** >.
4. Click **IMG-Activity** for **Maintain SAP Vendor to Funder Details**.

   The **Change View "Vendor to Funder Details": Overview** screen appears.
5. Maintain the following parameters:
   - **SCF FUNDER ID**
   - **VENDOR ID**

Maintaining Payment Method for Supply Chain Finance

Use this procedure to maintain payment method for supply chain finance.

Context

Payment for supply chain finance (SCF) is unique except the payment method **E** where you can create any payment method using the transaction FBZP. For example, for the payment method **T**, give the description as `Aribascf`.

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Liability Transfer** > .
4. Click **IMG-Action** for **Maintain Payment Method for Supply Chain Finance**.

   The **Customizing: Maintain Payment Program** screen appears.
5. Maintain the appropriate payment method for supply chain finance.

Component Consumption Request

For any prerequisites and limitations of the transaction, read Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide.

Component Consumption Request Configuration in SAP ERP and SAP S/4HANA [page 369]

Component Consumption Request Configuration in SAP ERP and SAP S/4HANA

The following sections describe the procedures to configure component consumption request in SAP ERP and SAP S/4HANA for integration with SAP Business Network:

Maintaining Parameters for Component Consumption Request [page 370]

Configuring the Real-Time Component Consumption for Subcontracting Purchase Orders [page 371]

Component Consumption Backflush Configuration in SAP ERP And/Or SAP S/4HANA [page 371]

Maintaining Parameters for Component Consumption Request

Use this procedure to maintain parameters for component consumption request.

Context

To maintain the parameters required for component consumption request, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **SAP Ariba Supply Chain Collaboration** > **Component Consumption Request**.
4. Click **IMG-Activity** for **Maintain Parameters for Component Consumption Request**.

   The **Parameters - Component Consumption Request** screen appears.
5. Maintain the following parameters:

   Table 29: Parameters for Component Consumption Request

Parameter name	Description	Supported values
CSC_CONF_CATEGORY	Required to maintain the confirmation category for the manufacturing visibility of components	• **Variable Name**: CSC_CONF_CATEGORY • **Field Name**:Leave it blank • **Number**: 0000 • **Low**: Z1
CSC_CONF_CTRL_KEY	Required to maintain the confirmation control key for the manufacturing visibility of components	• **Variable Name**: CSC_CONF_CTRL_KEY • **Field Name**:Leave it blank • **Number**: 0000 • **Low**: Z001

Configuring the Real-Time Component Consumption for Subcontracting Purchase Orders

Use this procedure to configure the real-time component consumption for subcontracting purchase orders.

Context

Ensure that you configure the following to view the real-time consumption of components during the subcontracting process. This business function is available for versions EHP4 and above.

Procedure

1. Run the transaction code `SFW5`.
2. Choose **DIMP Discrete Industries/Mill Prod** in the **Business Function Set**
3. Activate the business function **LOG_MM_OM_1**.

Component Consumption Backflush Configuration in SAP ERP And/Or SAP S/4HANA

The following section describes the procedures to configure component consumption backflush in SAP ERP and/or SAP S/4HANA for integration with SAP Business Network

For any prerequisites and limitations of this transaction, read Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide.

Maintaining Parameters to Generate the Goods Receipt Based on Supplier Batch ID [page 371]

Maintaining Parameters to Generate the Goods Receipt Based on Supplier Batch ID

Use this procedure to maintain parameters to generate the goods receipt based on supplier batch ID.

Context

You must maintain the `CONSMPTN_GR_SPLIT_BY_BATCH` parameter to generate the goods receipt that is split based on the buyer part ID, purchase order line item, and the supplier batch ID assigned to the finished product.

If you do not maintain this parameter, a single goods receipt per consumption request from SAP Business Network is generated.

Procedure

1. On the **SAP Easy Access** page, run the transaction code SPRO.

   The **Customizing: Execute Project** page appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **SAP Ariba Supply Chain Collaboration** > **Component Consumption Request** .
4. Click **IMG-Activity for Maintain Parameters for Component Consumption Request**.

   The **Parameters - Component Consumption Request** page appears.
5. Maintain the following parameter:

Parameter Name	Description	Supported Values
CONSMPTN_GR_SPLIT_BY_BATCH	Maintain this parameter to generate the goods receipt that is split based on the buyer part ID, purchase order line item, and the supplier batch ID assigned to the finished product.	• **Variable Name**: CONSMPTN_GR_SPLIT_BY_BATCH • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: Enter **X** to generate the goods receipt that is split based on the buyer part ID, purchase order line item, and the supplier batch ID assigned to the finished product.
CONSMPTN_CREATE_WAIT	Maintain this parameter to specify the WAIT time (in seconds) that the program should wait before updating purchase order during the creation of Goods Movement that supplier creates for Component Consumption in SAP Business Network, if purchase order is locked.	• **Variable Name**: CONSMPTN_CREATE_WAIT • **Field Name**: Leave it blank • **Number**: Enter 0000 (Zero) Low: Specify the wait time in seconds. For example 5. (The Minimum default wait time is 2 seconds which can be overwritten using this parameter)

Product Replenishment Message

For any prerequisites and limitations of the transaction, read Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide.

Product Replenishment Message Configuration in SAP ERP and SAP S/4HANA [page 373]

Product Replenishment Message Configuration in SAP ERP and SAP S/4HANA

The following sections describe the procedures to configure product replenishment message in SAP ERP and SAP S/4HANA for integration with SAP Business Network:

Maintaining Parameters for Product Replenishment Message [page 373]

Maintaining Parameters for Product Replenishment Message

Use this procedure to maintain parameters for product replenishment message.

Context

To create or delete purchase requisitions on the SAP ERP or SAP S/4HANA using the supplier-managed inventory information that suppliers send from SAP Business Network, maintain the following parameters:

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **SAP Ariba Supply Chain Collaboration** > **Product Replenishment Message**.
4. Click **IMG-Activity** for **Maintain Parameters for Product Replenishment Message**.

   The **Parameters - Product Replenishment Message** screen appears.
5. Maintain the following parameters:

Table 30: Parameters for Product Replenishment Message

Parameter name	Description	Supported values
CSC_SMI_PR_DOC_TYPE	To create or delete purchase requisitions in SAP ERP or SAP S/4HANA using the supplier-managed inventory information that suppliers send from SAP Business Network.	• **Variable Name**: CSC_SMI_PR_DOC_TYPE • **Field Name Number**: Leave it empty. • **Number**: 0000 • **Low**: NB, for example.
SL_UPD_PR_SHIP_DATE	Enable this parameter to consider the planned shipment date in the product replenishment message from suppliers as the primary criteria to update schedule lines in scheduling agreements as part of supplier-managed inventory. This parameter avoids creating duplicate schedule lines in the scheduling agreements.	• **Variable Name**: SL_UPD_PR_SHIP_DATE • **Field Name**: Leave it empty • **Number**: 0000 • **Low**: Enter **X** (to enable) or leave it blank (to disable).

Remittance Advice

This is an inbound transaction. The buyer initiates it in SAP Business Network. Its destination is SAP ERP or S/4HANA.

For any prerequisites and limitations of the transaction, read Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide.

Remittance Advice Configuration in SAP ERP and SAP S/4HANA [page 374]

Remittance Advice Configuration in SAP ERP and SAP S/4HANA

The following sections describe the procedures to configure remittance advice in SAP ERP and SAP S/4HANA for integration with SAP Business Network:

Maintaining Parameters for Remittance Advice [page 375]

Maintaining Parameters for Remittance Advice

Use this procedure to maintain parameters for remittance advice.

Context

To maintain the parameters required for remittance advice, perform the following steps:

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Remittance Advice** .
4. Click **IMG-Activity** for **Maintain Parameters for Remittance Advice**.

   The **Parameters - Remittance Advice** screen appears.
5. Maintain the following parameters:

   Table 31: Parameters for Remittance Advice

Parameter name	Description	Supported values
REMITTANCE_INV_DOC_TYPE	To maintain separate document type after creating remittance without considering PPR and ISU. Do not use this document type to create normal invoices. **Note** You are required to specify the value.	• **Variable Name**: REMITTANCE_INV_DOC_TYPE • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: AB, for example.

Parameter name	Description	Supported values
REMITTANCE_POST_KEY_CLEAR	To generate the remittance document with specific posting key by calling the BTE `RWBAPI01` while maintaining the required posting key in the table. This parameter is required as the BAPI `BAPI_ACC_DOCUMENT_POST` function module does not have the input parameter to pass the required posting keys and therefore the invoice is generated with default posting keys which are based on the Document type and Account type **Note** You are required to specify the value.	• **Variable Name**: REMITTANCE_POST_KEY_CLEAR • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: 25, for example.
REMITTANCE_POST_KEY_CREDIT	To generate the credit invoice with specific posting key by calling the BTE `RWBAPI01` while maintaining the required posting key in the table. This parameter is required as the BAPI `BAPI_ACC_DOCUMENT_POST` function module does not have the input parameter to pass the required posting keys and therefore the invoice is generated with default posting keys which are based on the Document type and Account type **Note** You are required to specify the value.	• **Variable Name**: REMITTANCE_POST_KEY_CREDIT • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: 38, for example.

Parameter name	Description	Supported values
REMITTANCE_SCF_PAYMENT_METHOD	To maintain the SCF payment method created to get the funder bank G/L account. **Note** You are required to specify the value and maintain the SCF payment method here.	• **Variable Name**: REMITTANCE_SCF_PAYMENT_METHOD • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: C, for example.

Replenishment Order

For any prerequisites and limitations of this transaction, read Transactions for SAP Business Network in SAP Integration Suite, Managed Gateway Overview Guide.

Integration Configuration to Support Replenishment Order [page 377]

Integration Configuration to Support Replenishment Order

The following section describes the procedures to configure the integration of replenishment order:

Implementing the BAdI to Modify the Data for Creating a Purchase Order from a Replenishment Order [page 377]

Maintaining Parameters to Specify the Document Type for Replenishment Order [page 378]

Implementing the BAdI to Modify the Data for Creating a Purchase Order from a Replenishment Order

Use this procedure to implement the BAdI to modify the data for creating a purchase order from a replenishment order.

Context

To modify the data for creating a purchase order from a replenishment order, you can implement the BAdI `ARBCIG_REPLENISHMENT_ORDER`. Implementing this BAdI helps you customize the replenishment order received from SAP Business Network.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Business Add-Ins (BAdIs)**
4. Click **IMG-Activity** for **BAdIs for Replenishment Order**.

   The **BAdI Implementations: Implementations for BAdI Definition ARBCIG_REPLENISHMENT_ORDER** page appears.
5. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: **ARBCIG_REPLENISHMENT_ORDER**

   The following table lists methods that you can implement:

Method Name	Description
PRE_PROCESSING	To customize the replenishment order before creating the purchase order
POST_PROCESSING	To customize the replenishment order after creating the purchase order

Maintaining Parameters to Specify the Document Type for Replenishment Order

Use this procedure to maintain parameters to specify the document type for replenishment order.

Context

Maintain the RO_DOC_TYPE parameter to specify the document type used to create a purchase order from the replenishment order that the supplier creates for the supplier-managed inventory in SAP Business Network.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.

2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **SAP Ariba Supply Chain Collaboration** > **Replenishment Order**

4. Click **IMG-Activity** for **Maintain Parameters for Replenishment Order**.

   The **Parameters - Replenishment Order Request** page appears.

5. Maintain the following parameter:

Parameter Name	Description	Values to Maintain
`RO_CREATE_WAIT`	Maintain this parameter to specify wait time (in seconds). The program must wait for the specified wait time before creating purchase order from the replenishment order that the supplier creates for the supplier-managed inventory in SAP Business Network, if agreement linked to the material is locked. This prevents locking issue when supplier creates two or more purchase orders with identical material in the same transaction.	• **Variable Name**: `RO_CREATE_WAIT` • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: Leave it blank.
`RO_DOC_TYPE`	Maintain this parameter to specify the document type used to create a purchase order from the replenishment order that the supplier creates for the supplier-managed inventory in SAP Business Network.	• **Variable Name**: `RO_DOC_TYPE` • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: Enter the doc type to create a purchase order from the replenishment order.

Quality Management

Quality Inspection [page 379]

Quality Notifications [page 385]

Quality Inspection

Buyers integrated with SAP Business Network, SAP Business Network for Supply Chain for Buyers solution, and SAP Integration Suite, managed gateway can send suppliers a request to inspect the quality of goods being sent by them. On receiving the request, suppliers inspect the quality of goods and send the results of the quality inspection to the buyer. Buyers confirm their decision based on the quality inspection result.

SAP Business Network adds the DocuSign eSignature details as well as the certificate of analysis (CoA) to the inspection results that are sent to buyers. The DocuSign eSignature details sent to buyers include a file attachment and a DocuSign Envelope URL, which the buyers can use to sign in to DocuSign and verify the data.The inspection lot consists of only one Digital Signature Envelope URL and DocuSign PDF attachment at any point in time. When updates are made to the quality inspection results recording, the results are sent along with the digital signature details from SAP Business Network to the SAP ERP or SAP S/4HANA system. Revised digital signature details (attachment and URL) overwrite the existing digital signature details.

SAP Ariba recommends that you read the SAP Integration Suite, Managed Gateway Overview Guide for the prerequisites and limitations.

Quality Inspection Configuration in SAP ERP and SAP S/4HANA [page 380]

Quality Inspection Configuration in SAP ERP and SAP S/4HANA

The following sections describe the procedures to configure quality inspection in SAP ERP and SAP S/4HANA for integration with SAP Business Network:

Creating and Activating the Event Type Linkage Settings for the Quality Inspection Request

Use this procedure to create and activate the event type linkage settings for the quality inspection request.

Context

Create and maintain the CREATED and CHANGED event types to send the decision taken for the quality inspection result sent by component suppliers from SAP Business Network. Buyers can confirm if the goods in the inspection lot have been accepted or rejected and send the inspection results (`QualityInspectionRequest` cXML message) to the supplier.

Procedure

To create a new event type linkage

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **SAP Ariba Supply Chain Collaboration** > **Quality Inspection** > **Quality Inspection Request**.
4. Click **IMG-Activity** for **Maintain Event Type Linkages for Quality Inspection Request**.

   The **Change View Event Type Linkages: Overview** screen appears.
5. Click **New Entries** and enter the following information:
   - **Object Category**: BOR Object Type
   - **Object Type**: BUS2045
   - **Event**: Choose **`CREATED`** from the list.
   - **Receiver Type**: Enter a name of the receiver type. For example, CREATED_ARBCIG.
   - **Receiver Call**: Method
   - **Class Name**: **`CL_ARBCIG_EXT_EVENT_QINSP`**
   - **Interface Name**: `BI_EVENT_HANDLER_STATIC`
   - **Method Name**: `ON_EVENT`
   - **Check Function Module**: Enter **`ARBCIG_EVT_CHK_INSP_LOT_ORIGIN`**.
   - **Event delivery**: Choose **`Using tRFC (Default)`** from the list.
   - **Behavior Upon Error Feedback**: Choose **`System defaults`** from the list.
   - **Receiver Status**: Choose **`No errors`** from the list.
6. Check the **Linkage Activated** field.
7. Save the changes.

To create the CHANGED event type linkage

8. Navigate back to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **SAP Ariba Supply Chain Collaboration** > **Quality Inspection** > **Quality Inspection Request**.
9. Click **IMG-Activity** for **Maintain Event Type Linkages for Quality Inspection Request**.

   The **Change View Event Type Linkages: Overview** screen appears.
10. Click **New Entries** and enter the following information:
    - **Object Category**: BOR Object Type
    - **Object Type**: BUS2045
    - **Event**: Choose **`CHANGED`** from the list.
    - **Receiver Type**: Enter a name of the receiver type. For example, CHANGED_ARBCIG.
    - **Receiver Call**: Method
    - **Class Name**: **`CL_ARBCIG_EXT_EVENT_QINSP`**
    - **Interface Name**: **`BI_EVENT_HANDLER_STATIC`**
    - **Method Name**: **`ON_EVENT`**
    - **Check Function Module**: Enter **`ARBCIG_EVT_CHK_INSP_LOT_ORIGIN`**.
    - **Event delivery**: Choose **`Using tRFC (Default)`** from the list.
    - **Behavior Upon Error Feedback**: Choose **`System defaults`** from the list.
    - **Receiver Status**: Choose **`No errors`** from the list.
11. Check the **Linkage Activated** field.
12. Save the changes.

Creating and Activating the Event Type Linkage Settings for Quality Inspection Decision Request

Use this procedure to create and activate the event type linkage settings for quality inspection decision request.

Context

Create and maintain the following event types to send the `QualityInspectionDecisionRequest` to SAP Business Network.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **SAP Ariba Supply Chain Collaboration** > **Quality Inspection** > **Quality Inspection Usage Decision**.
4. Click **IMG-Activity** for **Maintain Event Type Linkages for Quality Inspection Usage Decision**.

   The **Change View Event Type Linkages: Overview** screen appears.
5. Click **New Entries** and enter the following information:
   - **Object Category**: BOR Object Type
   - **Object Type**: BUS2045
   - **Event**: Choose **`USAGEDECISIONMADE`** from the list.
   - **Receiver Type**: Enter a name of the receiver type. For example, USAGE_DECISION_ARIBA.
   - **Receiver Call**: Method
   - **Class Name**: **`CL_ARBCIG_EXT_EVENT_QINSP`**
   - **Interface Name**: `BI_EVENT_HANDLER_STATIC`
   - **Method Name**: `ON_EVENT`
   - **Check Function Module**: Enter **`ARBCIG_EVT_CHK_QLTY_INSP_UD`**.
   - **Event delivery**: Choose **`Using tRFC (Default)`** from the list.
   - **Behavior Upon Error Feedback**: Choose **`System defaults`** from the list.
   - **Receiver Status**: Choose **`No errors`** from the list.
6. Check the **Linkage Activated** field.
7. Save the changes.

Implementing the BAdI for Quality Inspection

Use this procedure to implement the BAdI for quality inspection.

Context

The BAdI `ARBCIG_QUALITY_INSPECTION` allows buyers to customize the information about quality inspection sent to component suppliers on SAP Business Network. Use the following methods to enhance the BAdI.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Business Add-Ins(BAdIs)** > **Quality Inspection** > **BAdIs for Quality Inspection**
4. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: `ARBCIG_QUALITY_INSPECTION`

   The following table lists methods that you can implement:

Method Name	Description
PRE_PROCESSING_OUTBOUND	BADI for preprocessing`QualityInspectionRequest`.
POST_PROCESSING_OUTBOUND	BADI for postprocessing`QualityInspectionRequest`.
PRE_PROCESSING_UD_OUTBOUND	BADI for preprocessing`QualityInspectionDecisionRequest`.
POST_PROCESSING_UD_OUTBOUND	BADI for postprocessing`QualityInspectionDecisionRequest`.
PRE_PROCESSING_INBOUND	BADI for preprocessing`QualityInspectionResultRequest`.
POST_PROCESSING_INBOUND	BADI for postprocessing`QualityInspectionResultRequest`.

Resending the Quality Inspection Documents

Use this procedure to resend the quality inspection documents.

Context

In some cases, when the buyer sends the quality inspection documents to SAP Business Network and they fail due to technical reasons. Buyers can send the quality inspection documents again from the SAP ERP system by running the program `ARBCIG_RESEND_QINSP_REQ_CRTD`.

Procedure

1. Run the transaction code `ARBCIG_QINS_RESEND`.
2. Enter the details for the inspection lots in the **Inspection Lot** field.
3. Click **Execute**.

Implementing the BAdI for Quality Inspection Review

Use this procedure to implement the BAdI for quality inspection review.

Context

Implement the BAdI `QE_SAVE` to send the reviewed status (accepted or rejected) for the characteristics of the material item to suppliers on SAP Business Network. As a buyer, you can lock or unlock the characteristics for the material item in an inspection lot after reviewing the inspection result and send the information to SAP Business Network through the in the `QualityInspectionRequest` cXML document.

Use the transaction code `QE51N` to lock the result for a specific characteristic. When you lock the results, this prevents suppliers from making any further changes to the characteristics for the material item.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other mySAP.com Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **SAP Ariba Supply Chain Collaboration** > **Quality Inspection** > **Quality Inspection Request**.
4. Click the **IMG-Activity** for **Create BAdI implementation for Quality Inspection Review**. The BAdI Builder: Initial Screen for Implementations screen appears.
5. Click **Classic BAdI** in the Create Implementation section.
6. In the field, **BAdI Name**, enter a name for BAdI: **QE_SAVE**
7. Click **Create Impl**. The Business Add-In Builder: Create Implementation page appears.
8. Enter the following values:

   Implementation Name: Name for the BAdI implementation. Enter This can be any name starting with Z or Y as per the standards.

   Description: Enter a description.

   Implementation Class: CL_IM_ARBCIG_QE_SAVE_IMPL
9. Press **Enter**. Save the changes.
10. Activate the implementation.

Quality Notifications

Buyers enabled for SAP Business Network for Supply Chain can send notifications to suppliers registered on SAP Business Network informing them of quality-related issues in components or finished goods. Suppliers can also inform buyers of problems relating to goods and services and respond to the quality issues raised by the buyer.

SAP Ariba recommends that you read the SAP Integration Suite, Managed Gateway Overview Guide for the prerequisites and limitations.

Quality Notifications Configuration in SAP ERP and SAP S/4HANA [page 385]

Quality Notifications Configuration in SAP ERP and SAP S/4HANA

The following sections describe the procedures to configure quality notification in SAP ERP and SAP S/4HANA for integration with SAP Business Network:

Importing Master Data for Quality Notifications [page 386]

Maintaining Parameters for Quality Notifications [page 387]

Setting Up Quality Notification Codes [page 389]

Maintaining the Event Linkages for Quality Notifications [page 390]

Quality Notifications for SAP Business Network Setup [page 392]

Resending Quality Notification from SAP ERP or SAP S/4HANA to SAP Business Network [page 422]

Implementing a Customer Exit for Quality Notifications [page 423]

Maintaining Internal Tasks and Activities in Quality Notifications [page 424]

Implementing BAdI for Disabling Quality Notification Filters [page 425]

Importing Master Data for Quality Notifications

Use this procedure to import master data for quality notifications.

Context

You can run the program `ARBCIG_QN_MASTER_DATA_EXTRACT` to download the master data report with the quality notification codes from the SAP ERP system. The master data report containing the quality notification codes is in a .csv format. Ensure that you have the necessary authorization to run the master data program.

Procedure

1. Run the transaction code `SE38`.
2. Run the `ARBCIG_QN_MASTER_DATA_EXTRACT` program.

   The **Export All Master Data Required For Quality Notification** page appears.
3. In the **Language Key** field, enter the key for the language that you want to use. For example, `EN`.
4. In the **Notification Type** field, choose the notification type. For example, `Q6`, `Q7`, and so on.
5. To allow SAP ERP or SAP S/4HANA and SAP Business Network to use the same quality notification type, check the **Same Ariba and SAP Notification Type** check box.
6. To use multiple ERP system check, check the **Multi ERP** check box.
7. Specify the directory path to download the file. Ensure that the local directory or application server directory exists with the necessary permissions before running the master data import for quality notifications. Choose one of the following:
   - Click **PC File Directory** when you want to store the quality notification data on your local system.
   - Click **Appl. Server File Directory** when you want to store the quality notification data on your SAP application server.

   The quality notification data .csv file is downloaded on your local system or SAP application server.
8. Select the **Test Run** option when you want to run the master data program and check the contents in the .csv file. The master data .csv file is downloaded on your SAP application server. Ensure that the application server directory exists with the necessary permissions before running the master data import.

   When you run the incremental load subsequently, the stage table `ARBCIG_CHANGEDOC` continues to store the previous extracted data for the first run using the **Test Run** option.

   Specify the directory path in the **Dir Path for file download** field.
9. Click the **Execute** button to import the quality notification codes.

> **Note**
>
> After you have imported the quality notification codes, ensure that you download the .csv file and add the quality notification code groups to the quality notification codes in the .csv file. You need to go to your SAP

Business Network buyer account and then upload the .csv file containing the quality notification codes and code groups.

Before you can send or receive a quality notification, ensure that your suppliers also set up and configure their SAP Business Network account to send or receive the quality notifications.

Maintaining Parameters for Quality Notifications

Use this procedure to maintain parameters for quality notifications.

Context

You can maintain the following parameters for quality notification:

- Maintain the `QNTYPE_ARB` and the `QNTYPE_ERP` parameters to send and receive quality notifications.
- Maintain the `QN_STAT_FILTER` parameter to filter the quality notifications based on the system or the user status to prevent sending them to SAP Business Network.
  The following are the commonly used system status. To view the complete list of system status, refer to the `TJ02T` table.

I0068	OSNO	Outstanding Notification
I0069	NOPO	Notification Postponed
I0070	NOPR	Notification in Process
I0072	NOCO	Notification Completed
I0158	OSTS	Outstanding Task Exist
I0526	APOK	Approval: OK
I0161	NOTE	Notofication (External)
I0160	NOTI	Notification (Internal)
I0527	APRF	Approval: Refused
I0525	APRQ	Approval: Required

  The following are the commonly used user status. To view the complete list of user status, refer to the TJ30 table.

E0002	INIT	Notification Initialized
E0003	REL	Released for Processing
E0004	CANC	Notification Cancelled
E0006	LKD	Processing Blocked

- Maintain the `QN_DISABLED` parameter to disable the integration of changed quality notifications sent automatically from SAP ERP and SAP S/4HANA to SAP Business Network.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** page appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **SAP Ariba Supply Chain Collaboration** > **Quality Notification**.
4. Click **IMG Activity** for **Maintain Parameters for Quality Notification**.

   The **Parameters - Notification Type** page appears.
5. Maintain the `QN_STAT_FILTER` parameter as follows:

Parameter Name	Description	Supported Values
`QNTYPE_ARB`	Configure this parameter to enable the inbound quality notification from SAP Business Network to the SAP ERP system.	• **Variable Name**: `QNTYPE_ARB` • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: Enter the supplier-initiated quality notification to enable the inbound quality notification from SAP Business Network to the SAP ERP system (for example, `Q7`).
`QNTYPE_ERP`	Configure this parameter to enable the outbound quality notification from the SAP ERP system to SAP Business Network.	• **Variable Name**: `QNTYPE_ERP` • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: Enter the buyer-initiated quality notification to enable the outbound quality notification from the SAP ERP system to SAP Business Network (for example, `Q6`).

Parameter Name	Description	Supported Values
QN_STAT_FILTER	Configure this parameter to filter the quality notifications based on the system status or the user status to prevent sending them to SAP Business Network. **Note** If you use the QN_STAT_FILTER parameter to prevent specific quality notification statuses from triggering outbound proxies, implement the ARBCIG_QUALITY_NOTIFICATION BAdI and the PRE_PROCESSING_OUTBOUND method to control the **ActionCode** as required. Alternatively, use the ARBCIG_RESEND_QUALITY_NOTIF program to resend the quality notification to SAP Business Network with the desired **ActionCode**.	• **Variable Name**: QN_STAT_FILTER • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: Enter the system status or the user status to filter the quality notification to prevent them from sending to SAP Business Network.
QN_DISABLED	Configure this parameter to disable the integration of changed quality notifications sent automatically from SAP ERP and SAP S/4HANA to SAP Business Network.	• **Variable Name**: QN_DISABLED • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: Enter X to enable this parameter.

Setting Up Quality Notification Codes

Use this procedure to set up quality notification codes.

Context

Set up the quality notification codes to send and receive quality notifications.

Procedure

1. Run the transaction code `SPRO`.
2. Click **SAP Reference IMG**.
3. Click the tree structure, **Quality Management** > **Quality Notifications** > **Overview of Notification Type** >.
4. Maintain the following notification types in the **Display View "Notification Type":Overview** page:
   - **Notif.type**: Buyer-initiated quality notifications from the SAR ERP system (for example, `Q6`).
     Text: Complnt f.Cust.Ariba
     Text: Quality Notification
   - **Notif.type**: Supplier-initiated quality notification from SAP Business Network (for example, `Q7`).
     Text: Quality Notification
5. Run the transaction code `SE38`.
6. Run the program `ARBCIG_QN_MASTER_DATA_EXTRACT`.
7. Choose one of the following Notification types:
   - **Notif.type**: Buyer-initiated quality notifications from the SAR ERP system (for example, `Q6`)
     Text:Complnt f.Cust.Ariba
     Text:Quality Notification
   - **Notif.type**: Supplier-initiated quality notification from SAP Business Network (for example, `Q7`)
     Text:Complnt f.Vend.Ariba
     Text:Quality Notification
8. Enter the location to store the file on the local system in the field.
9. Enter the location to store the file on the server system in the **Appl. Server File Directory** field.
10. Click **Execute**. SAP Integration Suite, managed gateway saves the notification codes in a .csv file. PC File Directory
11. Go to the location where you stored the .csv file containing the quality notification codes and upload them in your SAP Business Network buyer account.

Maintaining the Event Linkages for Quality Notifications

Use this procedure to maintain the event linkages for quality notifications.

Context

Create and activate the CREATED event type linkages to send new quality notifications to SAP Business Network. You need to also create and activate the CHANGED event type linkage required to send changed quality notifications to SAP Business Network.

Procedure

1. Run the transaction code SPRO.

   The Customizing: Execute Project page appears.
2. Click **SAP Reference IMG**.

   The Display IMG page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Quality Notification** > **Maintain Event Linkage for Quality Notification**.

   The Change View "Event Type Linkages":Overview window appears.
4. Click **New Entries**. The New Entries: Details of Added Entries window appears.
5. Maintain the following entries:
   - **Object Category**: BO BOR Object Type
   - **Object Type**: BUS2078
   - **Event**: CREATED
   - **Receiver Type**: CREATED_AN

   Linkage Setting (Event Receiver)
   - **Receiver Call**: Method
   - **Class Name**: `CL_ARBCIG_EXT_EVENT_NOTIF`
   - **Interface Name**: `BI_EVENT_HANDLER_STATIC`
   - **Method Name**: `ON_EVENT`
   - **Check Function Module**: `ARBCIG_EXT_EVENT_CRT_CHECK`
   - **Receiver Type Function Module**: Leave it blank
   - **Destination of Receiver**: Leave it blank
   - **Event delivery**: Using tRFC (Default)
   - Select **Linkage Activated**
   - **Behavior Upon Error Feedback**: 0 System defaults
   - **Receiver Status**: 0 No errors
6. Save the changes.
7. Click **New Entries**. The New Entries: Details of Added Entries window appears.
8. Maintain the following entries:
   - **Object Category**: BO BOR Object Type
   - **Object Type**: BUS2078
   - **Event**: INPROCESS
   - **Receiver Type**: INPROCESS_AN

   Linkage Setting (Event Receiver)
   - **Receiver Call**: Method
   - **Class Name**: `CL_ARBCIG_EXT_EVENT_NOTIF`
   - **Interface Name**: `BI_EVENT_HANDLER_STATIC`
   - **Method Name**: `ON_EVENT`

- **Check Function Module**: `ARBCIG_EXT_EVENT_CRT_CHECK`
- **Receiver Type Function Module**: Leave it blank
- **Destination of Receiver**: Leave it blank
- **Event delivery**: Using tRFC (Default)
- Select **Linkage Activated**
- **Behavior Upon Error Feedback**: 0 System defaults
- **Receiver Status**: 0 No errors

9. Save the changes.
10. Click **New Entries**. The **New Entries: Details of Added Entries** page appears.
11. Maintain the following entries:
    - **Object Category**: BO BOR Object Type
    - **Object Type**: BUS2078
    - **Event**: APPROVED
    - **Receiver Type**: APPROVED_AN

    Linkage Setting (Event Receiver)
    - **Receiver Call**: Method
    - **Class Name**: **`CL_ARBCIG_EXT_EVENT_NOTIF`**
    - **Interface Name**: `BI_EVENT_HANDLER_STATIC`
    - **Method Name**: `ON_EVENT`
    - **Check Function Module**: `ARBCIG_EXT_EVENT_CRT_CHECK`
    - **Receiver Type Function Module**: Leave it blank
    - **Destination of Receiver**: Leave it blank
    - **Event delivery**: Using tRFC (Default)
    - Select **Linkage Activated**
    - **Behavior Upon Error Feedback**: 0 System defaults
    - **Receiver Status**: 0 No errors
12. Save the changes.

> **Note**
>
> If the quality notification fails to reach SAP Business Network, you can resend the quality notification. Buyers can use the transaction code `ARBCIG_QLTY_NOITF` to resend the failed quality notification to SAP Business Network.

Quality Notifications for SAP Business Network Setup

Set up quality notifications on your SAP ERP system to send and receive quality notifications from SAP Business Network.

Creating the Priority Type for SAP Business Network [page 393]

Buyer-Initiated Quality Notification Types Setup [page 394]

Supplier-Initiated Quality Notification Type Setup [page 407]

Defining Mandatory Fields for Quality Notifications [page 421]

Creating the Priority Type for SAP Business Network

Use this procedure to create the priority type for SAP Business Network.

Context

Before you send and receive quality notifications, you need to create the priority type for on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.
2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Notification Processing** > **Response Control** > **Define Priorities**. The Choose Activity page appears.
3. Double click the text Priority Types. The Change View “Priority Types”: Overview page appears.
4. Click **New Entries**. The New Entries: Overview of Added Entries page appears.
5. Enter the following values:
   - **PrTyp**: BN
   - **Priority type**: SAP Business Network Prio
6. Click **Save**. A message that the data was saved appears.
7. Go back to the page, Choose Activity and double-click the text, Priorities by Priority Types. The Change View “Priorities for Each Priority Type”: Overview page appears.
8. Click New Entries. The New Entries: Overview of Added Entries page appears.
9. Enter the following values:
   - **PrTyp**: BN
   - **Prior.**: 1
   - **Rel.start**: 1
   - **Rel.end**: 10
   - **Priority text**: Low
   - **SDun.**: DAY
   - **EDUn.**: DAY
   - **PrTyp**: BN
   - **Prior.**: 2
   - **Rel.start**: 2
   - **Rel.end**: 5

- **Priority text**: Medium
- **SDun.**: DAY
- **EDUn.**: DAY

- **PrTyp**: BN
- **Prior.**: 3
- **Rel.start**: Leave it blank
- **Rel.end**: 3
- **Priority text**: High
- **SDun.**: Leave it blank
- **EDUn.**: DAY

- **PrTyp**: BN
- **Prior.**: 4
- **Rel.start**: Leave it blank
- **Rel.end**: 2
- **Priority text**: Urgent
- **SDun.**: Leave it blank
- **EDUn.**: DAY

- **PrTyp**: BN
- **Prior.**: 5
- **Rel.start**: Leave it blank
- **Rel.end**: 1
- **Priority text**: Critical
- **SDun.**: Leave it blank
- **EDUn.**: DAY

10. Click **Save**. A message that the data was saved appears.

Buyer-Initiated Quality Notification Types Setup

Creating Buyer-Initiated Quality Notification Types [page 395]

Assigning the Number Range to the Buyer-Initiated Quality Notification Types [page 396]

Defining Catalogs for the Buyer-Initiated Quality Notification Types [page 396]

Defining the Partner Determination for the Buyer-Initiated Quality Notification Types [page 397]

Assigning Partner Determination Procedure to the Buyer-Initiated Quality Notification Types [page 399]

Assigning Partner Functions to the Buyer-Initiated Quality Notification Types [page 400]

Configuring and Setting Up the Buyer-Initiated Quality Notification Types [page 400]

Setting Up the Screen Structure for the Buyer-Initiated Quality Notification Types [page 401]

Setting Up the Catalogs and Catalog Profiles for the Buyer-Initiated Quality Notification Types [page 405]

Setting Up the Format Long Text for the Buyer-Initiated Quality Notification Types [page 406]

Setting Up the Priority Type for the Buyer-Initiated Quality Notification Types [page 407]

Creating Buyer-Initiated Quality Notification Types

Use this procedure to create buyer-initiated quality notification types.

Context

Before you send and receive quality notifications, you need to create the buyer-initiated quality notification types on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.
2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Notification Creation** > **Notification Types** > **Define Notification Types** . The Change View “Notification Types”: Overview page appears.
3. Click **New Entries**. The New Entries: Overview of Added Entries page appears.
4. Enter the following values:
    - **Notification Type**: Enter the buyer-initiated quality notification type. For example, Q6.
    - **Notification Type Description**: Complnt f. Cus Ariba
    - **Notif.cat: 02** : Quality Notification
    - **Rel.end**: 10
5. In the Parameters section, enter the following values:
    - **Notification Origin**: Q2 Complaint against vendor
    - **Catalog profile**: QM0000001 – Cat. Profile for Q-Notifs
6. Click **Save**. A message that the data was saved appears.

Assigning the Number Range to the Buyer-Initiated Quality Notification Types

Use this procedure to assign the number range to the buyer-initiated quality notification types.

Context

Before you send and receive quality notifications, you need to assign the number range to the buyer-initiated quality notification types on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.
2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Notification Creation** > **Notification Types** > **Define Number Ranges** . The Number range – message page appears.
3. Click **Groups (Maintain Groups)**.
4. In the Not assigned section, select the buyer-initiated quality notification type (for example Q6) by setting the cursor on the specific notification type and then clicking **Select Element**.
5. Select the check box for the Quality Notification and then click **Element/Group** to assign the buyer-initiated quality notification type to the number range object quality notification.
6. Click **Save**. If the number range needs to be transported, include them in a transport.

Defining Catalogs for the Buyer-Initiated Quality Notification Types

Use this procedure to define catalogs for the buyer-initiated quality notification types.

Context

Before you send and receive quality notifications, you need to define catalogs for the buyer-initiated quality notification type on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.

2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Notification Creation** > **Notification Content** > **Catalogs and Catalog Profiles for Notification Type**. The Change View "Catalogs for notification types": Overview page appears.
3. Choose the buyer-initiated quality notification type (for example Q6) and then click **Details**. The Change View "Catalogs for notification types": Details page appears.
4. Enter the following values:
    - **Coding**: D – Coding
    - **Problems**: 9 – Defect types
    - **Causes**: 5 – Causes
    - **Tasks**: 2 – Tasks
    - **Activities**: 8 – Activities (QM)
    - **ObjectPart.**: E – Defect Locations
5. Click **Save**. A message that the data was saved appears.

Defining the Partner Determination for the Buyer-Initiated Quality Notification Types

Use this procedure to define the partner determination for the buyer-initiated quality notification types.

Context

Before you send and receive quality notifications, you need to define the partner determination for the buyer-initiated quality notification type on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.
2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Notification Creation** > **Partners** > **Define Partner Determination Procedures**. The Choose Activity page appears.
3. Double click the text Define Partner Determination Procedures. The Maintain: Partner Determination page appears.
4. Choose **Quality Management**.
5. Click **Change Partner**. The Change View "Partner Determination Procedures": Overview page appears.
6. Click **New Entries**. The New Entries: Overview of Added Entries page appears.
7. Enter the following values:
    - **PartnDet. Proc**: Enter the buyer-initiated quality notification type. Fore example, `Q6`.
    - **Description**: Customer Complaint

8. Click **Save**. A message that the data was saved appears.
9. Select the newly created entry for the partner determination procedures and double-click **Functions in Determination Procedure** under the Dialog Structure tree structure. The In Change View "Functions in Determination Procedure": Overview page appears.
10. Click **New Entries**. The New Entries: Overview of Added Entries page appears.
11. Enter the following values:
    - **PartnDet.Proc.**: Enter the buyer-initiated quality notification type. Fore example, `Q6`.
      - **Fnct**: AB
      - **No change poss.**: Leave it blank
      - **Partner mandat.**: Leave it blank
      - **Unique**: Leave it blank
      - **Appointments**: Leave it blank
    - **PartnDet.Proc.**: Enter the buyer-initiated quality notification type. Fore example, `Q6`.
      - **Fnct**: HR
      - **No change poss.**: Leave it blank
      - **Partner mandat.**: Leave it blank
      - **Unique**: Leave it blank
      - **Appointments**: Leave it blank
    - **PartnDet.Proc.**: Enter the buyer-initiated quality notification type. Fore example, `Q6`.
      - **Fnct**: IT
      - **No change poss.**: Leave it blank
      - **Partner mandat.**: Leave it blank
      - **Unique**: Leave it blank
      - **Appointments**: Leave it blank
    - **PartnDet.Proc.**: Enter the buyer-initiated quality notification type. Fore example, `Q6`.
      - **Fnct**: KU
      - **No change poss.**: Leave it blank
      - **Partner mandat.**: Leave it blank
      - **Unique**: Leave it blank
      - **Appointments**: Leave it blank
    - **PartnDet.Proc.**: Enter the buyer-initiated quality notification type. Fore example, `Q6`.
      - **Fnct**: VN
      - **No change poss.**: Leave it blank
      - **Partner mandat.**: Choose this field
      - **Unique**: Choose this field
      - **Appointments**: Leave it blank
    - **PartnDet.Proc.**: Enter the buyer-initiated quality notification type. Fore example, `Q6`.
      - **Fnct**: ST
      - **No change poss.**: Leave it blank
      - **Partner mandat.**: Leave it blank
      - **Unique**: Leave it blank
      - **Appointments**: Leave it blank

- **PartnDet.Proc.**: Enter the buyer-initiated quality notification type. Fore example, `Q6`.
  - **Fnct**: VU
  - **No change poss.**: Leave it blank
  - **Partner mandat.**: Leave it blank
  - **Unique**: Leave it blank
  - **Appointments**: Leave it blank
- **PartnDet.Proc.**: Enter the buyer-initiated quality notification type. Fore example, `Q6`.
  - **Fnct**: VW
  - **No change poss.**: Leave it blank
  - **Partner mandat.**: Leave it blank
  - **Unique**: Leave it blank
  - **Appointments**: Leave it blank

12. Click **Save**. A message that the data was saved appears.

Assigning Partner Determination Procedure to the Buyer-Initiated Quality Notification Types

Use this procedure to assign partner determination procedure to the buyer-initiated quality notification types.

Context

Before you send and receive quality notifications, you need to assign the partner determination to the buyer-initiated quality notification type on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.
2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Notification Creation** > **Partners** > **Define Partner Determination Procedures** . The Select Activity page appears.
3. Double-click the text Assign Partner Determination Procedure to Notif. Type. The Change View “Partner Determination Procedure for Notification Type:0 page appears.
4. Click **New Entries**. Assign a partner type to the partner function. For example, assign the partner type "Customer Complaint" to the partner function "Complnt f. Cus Arib."
5. Maintain the following values:
   - **NoTYp**: Enter the buyer-initiated quality notification type. Fore example, `Q6`.
   - **PartnDetProc**: Enter the buyer-initiated quality notification type. Fore example, `Q6`.
6. Click **Save**. A message that the data was saved appears.

Assigning Partner Functions to the Buyer-Initiated Quality Notification Types

Use this procedure to assign partner functions to the buyer-initiated quality notification types.

Context

Before you send and receive quality notifications, you need to define the partner determination for the buyer-initiated quality notification type on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.
2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Notification Creation** > **Partners** > **Define Partner Determination Procedures** . The Choose Activity page appears.
3. Double click the text Assign Partner Functions to Notification Type. The Change View "Partner Functions, Approval": Overview page appears.
4. Select the buyer-initiated quality notification type (for example, Q6) and click the **Details** button.
5. Maintain the following values:
    - In the section, Partner functions for notifications with vendor reference enter the following values:
        - **Vendor** : Vendor (VN)
        - **Manufacturer** : Manufacturer(HR)
    - In the section, Partner functions for notification processing enter the following values:
        - **Implementing dept.** : Department Resp. (AB)
        - **Person responsible** : Coordinator(KU)
        - **Task Processor**: User responsible (VU)
6. Click **Save**. A message that the data was saved appears.

Configuring and Setting Up the Buyer-Initiated Quality Notification Types

Use this procedure to configure and set up the buyer-initiated quality notification types.

Context

Before you send and receive quality notifications, you need to configure and set up the buyer-initiated quality notification type on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.
2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Overview of Notification Type** . The Display View "Notification Type": Overview page appears.
3. Select the buyer-initiated quality notification type (for example, Q6)
4. Double-click the text Screen Areas in Notification Header. The Change View "Screen Areas in Notification Header": Details page appears.
5. Enter the following values:
   - **Screen type hdr**: H500
   - **Scrn Type Object**: 0510
6. Click **Save**. A message that the data was saved appears.

Setting Up the Screen Structure for the Buyer-Initiated Quality Notification Types

Use this procedure to set up the screen structure for the buyer-initiated quality notification types.

Context

Before you send and receive quality notifications, you need to set up the screen structure for the buyer-initiated quality notification type on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.
2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Overview of Notification Type** . The Display View "Notification Type": Overview page appears.
3. Select the buyer-initiated quality notification type (for example, Q6).
4. Double-click the text Screen Structure for Extended View. The Change View "Screen Structure for Extended View": Overview page appears.
5. Click **New Entries**. The New Entries: Overview of Added Entries page appears.
6. Enter the following values:

   Screen element Reference Objects

   In the Function section, enter the following values:

   - **Tab**: 10\TAB01 – Notification 1
     In the Tabstrip control section, enter the following values:

- **Tab header**: Reference Objects
- **Tab**: Choose this field.
- **Tab Page Allocatn**: 0

7. Press **Enter**. The section Screen area is now enabled for you to enter values.
8. In the Screen area section, enter the following values:

    - **Screen area 1**: 040 – Reference Documents
    - **Screen area 2**: 005 – Reference object
    - **Screen area 3**: 025 – Note on related notifications
    - **Screen area 4**: 031 – Subject and long text (Windows 32bit)
    - **Screen area 5**: 015 – Item with first cause

    Screen element Problem Details

    In the Function section, enter the following values:

    - **Tab**: 10\TAB02 – Additional data 1
    - In the Tabstrip control section, enter the following values:
    - **Tab header**: Problem Details
    - **Tab**: Choose this field.
    - **Tab Page Allocatn**: 0

9. Press **Enter**. The section Screen area is now enabled for you to enter values.
10. In the Screen area section, enter the following values:

    - **Screen area 1**: 035 – Contact person (customer/vendor/author)
    - **Screen area 2**: 045 – Organizational data
    - **Screen area 3**: 055 – Work center
    - **Screen area 4**: 010 – Processing
    - **Screen area 5**: 050 – Quantities

    Screen element processing

    In the Function section, enter the following values:

    - **Tab**: 10\TAB03 – Additional data 2
    - In the Tabstrip control section, enter the following values:
    - **Tab header**: Processing
    - **Tab Page Allocatn**: 0

    Screen element dates

    In the Function section, enter the following values:

    - **Tab**: 10\TAB04 – Dates
    - In the Tabstrip control section, enter the following values:
    - **Tab header**: Leave it blank
    - **Tab Page Allocatn**: 0

    Screen element malfunction data

In the Function section, enter the following values:

- **Tab**: 10\TAB05 – Malfunction data
- In the Tabstrip control section, enter the following values:
- **Tab header**: Leave it blank
- **Tab Page Allocatn**: 0

Screen element system availability

In the Function section, enter the following values:

- **Tab**: 10\TAB06 – System availability
- In the Tabstrip control section, enter the following values:
- **Tab header**: Leave it blank
- **Tab Page Allocatn**: 0

Screen element Item

In the Function section, enter the following values:

- **Tab**: 10\TAB10 – Item
- In the Tabstrip control section, enter the following values:
- **Tab header**: Items
- **Tab** : Choose this field
- **Tab Page Allocatn**: 0

Screen element tasks

In the Function section, enter the following values:

- **Tab**: 10\TAB11 – Tasks
- In the Tabstrip control section, enter the following values:
- **Tab header**: Actions
- **Tab** : Choose this field
- **Tab Page Allocatn**: 0

Screen element activities

In the Function section, enter the following values:

- **Tab**: 10\TAB12 – Activities
- In the Tabstrip control section, enter the following values:
- **Tab header**: Activities
- **Tab** : Choose this field
- **Tab Page Allocatn**: 0

Screen element Item 2

In the Function section, enter the following values:

- **Tab**: 10\TAB13 – Item 2
- In the Tabstrip control section, enter the following values:
- **Tab header**:

- **Tab Page Allocatn**: 0

Screen element actions

In the Function section, enter the following values:

- **Tab**: 10\TAB14 – All tasks
- In the Tabstrip control section, enter the following values:
- **Tab header**: Actions
- **Tab Page Allocatn**: 0

Screen element activities

In the Function section, enter the following values:

- **Tab**: 10\TAB15 – All activities
- In the Tabstrip control section, enter the following values:
- **Tab header**: Activities
- **Tab Page Allocatn**: 0

Screen element All causes

In the Function section, enter the following values:

- **Tab**: 10\TAB16 – All causes
- In the Tabstrip control section, enter the following values:
- **Tab header**: Leave it blank
- **Tab Page Allocatn**: 0

Screen element Item overview

In the Function section, enter the following values:

- **Tab**: 20\TAB01– Item overview
- In the Tabstrip control section, enter the following values:
- **Tab header**: Overview
- **Tab** : Choose this field
- **Tab Page Allocatn**: 0

Screen element Item causes

In the Function section, enter the following values:

- **Tab**: 20\TAB02– Item causes
- In the Tabstrip control section, enter the following values:
- **Tab header**: Causes
- **Tab** : Choose this field
- **Tab Page Allocatn**: 0

Screen element Item tasks

In the Function section, enter the following values:

- **Tab**: 20\TAB03– Item tasks
- In the Tabstrip control section, enter the following values:

- **Tab header**: Actions
- **Tab** : Choose this field
- **Tab Page Allocatn**: 0

Screen element Item tasks

In the Function section, enter the following values:

- **Tab**: 20\TAB04– Item activities
- In the Tabstrip control section, enter the following values:
- **Tab header**: Activities
- **Tab** : Choose this field
- **Tab Page Allocatn**: 0

11. Click **Save**. A message that the data was saved appears.
12. Go back to the Display View "Notification Type": Overview screen and select the buyer-initiated quality notification type (for example, Q6).
13. Double-click the text Screen Structure for Simplified View in the tree structure. The Change View "Screen Structure for Simplified View": Overview page appears.
14. Click **New Entries**. The New Entries: Overview of Added Entries page appears.
15. Enter the following values:

    Screen element Reference Objects

    In the Screen Structure for Simplified View section enter the following values:

    - **Tab Page Allocatn**: 0
    - **Screen area 1**: 031 – Subject and long text (Windows 32bit)
    - **Screen area 2**: 005 – Reference object
    - **Screen area 3**: 040 – Reference Documents
    - **Screen area 4**: 010 – Processing
    - **Screen area 5**: 037 – Partner overview screen (table control)
16. Click **Save**. A message that the data was saved appears.

Setting Up the Catalogs and Catalog Profiles for the Buyer-Initiated Quality Notification Types

Use this procedure to set up the catalogs and catalog profiles for the buyer-initiated quality notification types.

Context

Before you send and receive quality notifications, you need to set up the catalogs and catalog profiles for the buyer-initiated quality notification type on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.
2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Overview of Notification Type** . The Display View “Notification Type”: Overview page appears.
3. Select the buyer-initiated quality notification type. For example, Q6 .
4. Double-click the text Catalogs and Catalog Profiles . The Change View “Catalogs and Catalog Profiles”: Details page appears.
5. In catalog profile section, enter the following values:

   Catalog profile – QM0000001 (Cat. Profile for Q-Notifs)

   In Catalogs for section, enter the following values:

   - **Coding**: D – Coding
   - **Problems**: 9 – Defect Types
   - **Causes**: 5 – Causes
   - **Tasks**: 2 – Tasks
   - **Activities**: 8 – Activities (QM)
   - **ObjectParts**: E – Defect Locations
6. Click **Save**. A message that the data was saved appears.

Setting Up the Format Long Text for the Buyer-Initiated Quality Notification Types

Use this procedure to set up the format long text for the buyer-initiated quality notification types.

Context

Before you send and receive quality notifications, you need to set up the format long text for the buyer-initiated quality notification type (for example, Q6) on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.
2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Overview of Notification Type** . The Display View “Notification Type”: Overview page appears.
3. Select the buyer-initiated quality notification type. For example, Q6.
4. Double-click the text Format Long Text. The Change View “Format Long Text”: Details page appears.

5. In General long text formatting section, enter the following values:
    - **Log line**: Choose this field
    - **No text change**: Choose this field
6. Click **Save**. A message that the data was saved appears.

Setting Up the Priority Type for the Buyer-Initiated Quality Notification Types

Use this procedure to set up the priority type for the buyer-initiated quality notification types.

Context

Before you send and receive quality notifications, you need to set up the priority type for the buyer-initiated quality notification type (for example, Q6) on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.
2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Overview of Notification Type** . The Display View "Notification Type": Overview page appears.
3. Select the buyer-initiated quality notification type (for example, Q6).
4. Double-click the text Priority Type. The Change View "Priority Type": Details page appears.
5. In Priority type section, enter the following values:
    - **Priority type**: BN – SAP Business Network Prio
6. Click **Save**. A message that the data was saved appears.

Supplier-Initiated Quality Notification Type Setup

Creating the Supplier-Initiated Quality Notification Types [page 408]

Assigning the Number Range to the Supplier-Initiated Quality Notification Types [page 409]

Defining Catalogs for the Supplier-Initiated Quality Notification Types [page 409]

Defining the Partner Determination for the Supplier-Initiated Quality Notification Types [page 410]

Assigning the Partner Schema for the Buyer-Initiated Quality Notification Types to the Supplier-Initiated Quality Notification Types [page 412]

Assigning Partner Determination Procedure to the Supplier-Initiated Quality Notification Types [page 413]

Assigning Partner Functions to the Supplier-Initiated Quality Notification Types [page 413]

Configuring and Setting Up the Supplier-Initiated Quality Notification Types [page 414]
Setting Up the Screen Structure for the Supplier-Initiated Quality Notification Types [page 415]
Setting Up the Catalogs and Catalog Profiles for the Supplier-Initiated Quality Notification Types [page 419]
Setting Up the Format Long Text for the Supplier-Initiated Quality Notification Types [page 420]
Setting Up the Priority Type for the Supplier-Initiated Quality Notification Types [page 421]

Creating the Supplier-Initiated Quality Notification Types

Use this procedure to create the supplier-initiated quality notification types.

Context

Before you send and receive quality notifications, you need to create the supplier-initiated quality notification type on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.
2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Notification Creation** > **Notification Types** > **Define Notification Types** . The Change View "Notification Types": Overview page appears.
3. Click **New Entries**. The New Entries: Overview of Added Entries page appears.
4. Enter the following values:
   - **Notification Type**: Enter the supplier-initiated quality notification type (for example, Q7)
   - **Notification Type Description**: Complnt f. Sup Ariba
   - **Notif.cat: 02** : Quality Notification
   - **Rel.end**: 10
5. In the Parameters section, enter the following values:
   - **Notification Origin**: Q2 Complaint against vendor
   - **Catalog profile**: QM0000001 – Cat. Profile for Q-Notifs
6. Click **Save**. A message that the data was saved appears.

Assigning the Number Range to the Supplier-Initiated Quality Notification Types

Use this procedure to assign the number range to the supplier-initiated quality notification types.

Context

Before you send and receive quality notifications, you need to assign the number range to the supplier-initiated quality notification type on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.
2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Notification Creation** > **Notification Types** > **Define Number Ranges** . The Number range – message page appears.
3. Click **Groups (Maintain Groups)**.
4. In the Not assigned section, select the supplier-initiated quality notification type (for example, Q7) by setting the cursor on the notification type and then click **Select Element**.
5. Select the check box for the Quality Notification and then click **Element/Group** to assign the supplier-initiated quality notification type to the number range object quality notification.
6. Click **Save**. If the number range needs to be transported, include them in a transport.

Defining Catalogs for the Supplier-Initiated Quality Notification Types

Use this procedure to define catalogs for the supplier-initiated quality notification types.

Context

Before you send and receive quality notifications, you need to define catalogs for the supplier-initiated quality notification types on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.

2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Notification Creation** > **Notification Content** > **Catalogs and Catalog Profiles for Notification Type** >. The Change View "Catalogs for notification types": Overview page appears.
3. Choose the supplier-initiated quality notification type (for example, Q7) and then click **Details**. The Change View "Catalogs for notification types": Details page appears.
4. Enter the following values:
    - **Coding**: D – Coding
    - **Problems**: 9 – Defect types
    - **Causes**: 5 – Causes
    - **Tasks**: 2 – Tasks
    - **Activities**: 8 – Activities (QM)
    - **ObjectPart.**: E – Defect Locations
5. Click **Save**. A message that the data was saved appears.

Defining the Partner Determination for the Supplier-Initiated Quality Notification Types

Use this procedure to define the partner determination for the supplier-initiated quality notification types.

Context

Before you send and receive quality notifications, you need to define the partner determination for the supplier-initiated quality notification types on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.
2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Notification Creation** > **Partners** > **Define Partner Determination Procedures** >. The Choose Activity page appears.
3. Double click the text Define Partner Determination Procedures. The Maintain: Partner Determination page appears.
4. Choose **Quality Management**.
5. Click **Change Partner**. The Change View "Partner Determination Procedures": Overview page appears.
6. Click **New Entries**. The New Entries: Overview of Added Entries page appears.
7. Enter the following values:
    - **PartnDet. Proc**: Enter the supplier-initiated quality notification type (for example, Q7)
    - **Description**: Supplier Complaint

8. Click **Save**. A message that the data was saved appears.
9. Select the newly created entry for the partner determination procedures and double-click **Functions in Determination Procedure** under the Dialog Structure tree structure. The In Change View "Functions in Determination Procedure": Overview page appears.
10. Click **New Entries**. The New Entries: Overview of Added Entries page appears.
11. Enter the following values:
    - **PartnDet.Proc.**: Enter the supplier-initiated quality notification type (for example, Q7)
        - **Fnct**: AB
        - **No change poss.**: Leave it blank
        - **Partner mandat.**: Leave it blank
        - **Unique**: Leave it blank
        - **Appointments**: Leave it blank
    - **PartnDet.Proc.**: Enter the supplier-initiated quality notification type (for example, Q7)
        - **Fnct**: HR
        - **No change poss.**: Leave it blank
        - **Partner mandat.**: Leave it blank
        - **Unique**: Leave it blank
        - **Appointments**: Leave it blank
    - **PartnDet.Proc.**: Enter the supplier-initiated quality notification type (for example, Q7)
        - **Fnct**: IT
        - **No change poss.**: Leave it blank
        - **Partner mandat.**: Leave it blank
        - **Unique**: Leave it blank
        - **Appointments**: Leave it blank
    - **PartnDet.Proc.**: Enter the supplier-initiated quality notification type (for example, Q7)
        - **Fnct**: KU
        - **No change poss.**: Leave it blank
        - **Partner mandat.**: Leave it blank
        - **Unique**: Leave it blank
        - **Appointments**: Leave it blank
    - **PartnDet.Proc.**:Enter the supplier-initiated quality notification type (for example, Q7)
        - **Fnct**: VN
        - **No change poss.**: Leave it blank
        - **Partner mandat.**: Choose this field
        - **Unique**: Choose this field
        - **Appointments**: Leave it blank
    - **PartnDet.Proc.**: Enter the supplier-initiated quality notification type (for example, Q7)
        - **Fnct**: ST
        - **No change poss.**: Leave it blank
        - **Partner mandat.**: Leave it blank
        - **Unique**: Leave it blank
        - **Appointments**: Leave it blank

- **PartnDet.Proc.**: Enter the supplier-initiated quality notification type (for example, Q7)
  - **Fnct**: VU
  - **No change poss.**: Leave it blank
  - **Partner mandat.**: Leave it blank
  - **Unique**: Leave it blank
  - **Appointments**: Leave it blank
- **PartnDet.Proc.**: Enter the supplier-initiated quality notification type (for example, Q7)
  - **Fnct**: VW
  - **No change poss.**: Leave it blank
  - **Partner mandat.**: Leave it blank
  - **Unique**: Leave it blank
  - **Appointments**: Leave it blank

12. Click **Save**. A message that the data was saved appears.

Assigning the Partner Schema for the Buyer-Initiated Quality Notification Types to the Supplier-Initiated Quality Notification Types

Use this procedure to assign the partner schema for the buyer-initiated quality notification types to the supplier-initiated quality notification types.

Context

Before you send and receive quality notifications, you need to define the partner schema for the buyer-initiated quality notification types on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.
2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Notification Creation** > **Partners** > **Define Partner Determination Procedures** > **Assign Partner Determination Procedure to Notif. Type** . The Choose Activity page appears.
3. Double-click the text Assign Partner Determination Procedure to Notif. Type. The Change View "Partner Determination Procedure for Notification Type ": O page appears.
4. Maintain the following values:
   - **NoTYp** : Buyer-initiated quality notification type (for example, `Q6`)
   - **PartnDetProc** : Buyer-initiated quality notification type (for example, `Q6`)
5. Click **Save**. A message that the data was saved appears.

Assigning Partner Determination Procedure to the Supplier-Initiated Quality Notification Types

Use this procedure to assign partner determination procedure to the supplier-initiated quality notification types.

Context

Before you send and receive quality notifications, you need to assign the partner determination for the supplier-initiated quality notification type on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.
2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Notification Creation** > **Partners** > **Define Partner Determination Procedures** . The Choose Activity page appears.
3. Double-click the text Assign Partner Determination Procedure to Notif. Type. The Change View "Partner Determination Procedure for Notification Type:0 page appears.
4. Enter the following values:
   - **NoTYp**: Enter the supplier-initiated quality notification type (for example, `Q7`)
   - **PartnDetProc**: Enter the buyer-initiated quality notification type (for example, `Q6`)
5. Click **Save**. A message that the data was saved appears.

Assigning Partner Functions to the Supplier-Initiated Quality Notification Types

Use this procedure to assign partner functions to the supplier-initiated quality notification types.

Context

Before you send and receive quality notifications, you need to define the partner determination for the supplier-initiated quality notification types on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.

2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Notification Creation** > **Partners** > **Define Partner Determination Procedures** . The Choose Activity page appears.
3. Double click the text Assign Partner Functions to Notification Type. The Change View "Partner Functions, Approval": Overview page appears.
4. Select the supplier-initiated quality notification types (for example, Q7)e and click the **Details** button.
5. Maintain the following values:
    - In the section, Partner functions for notifications with vendor reference enter the following values:
        - **Vendor** : Vendor (VN)
        - **Manufacturer** : Manufacturer(HR)
    - In the section, Partner functions for notification processing enter the following values:
        - **Implementing dept.** : Department Resp. (AB)
        - **Person responsible** : Coordinator(KU)
        - **Task Processor**: User responsible (VU)
6. Click **Save**. A message that the data was saved appears.

Configuring and Setting Up the Supplier-Initiated Quality Notification Types

Use this procedure to configure and set up the supplier-initiated quality notification types.

Context

Before you send and receive quality notifications, you need to configure and set up supplier-initiated quality notification type (for example, Q7) on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.
2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Overview of Notification Type** . The Display View "Notification Type": Overview page appears.
3. Select the supplier-initiated quality notification type (for example, Q7) .
4. Double-click the text Screen Areas in Notification Header. The Change View "Screen Areas in Notification Header": Details page appears.
5. Enter the following values:
    - **Screen type hdr**: H500
    - **Scrn Type Object**: 0510
6. Click **Save**. A message that the data was saved appears.

Setting Up the Screen Structure for the Supplier-Initiated Quality Notification Types

Use this procedure to set up the screen structure for the supplier-initiated quality notification types.

Context

Before you send and receive quality notifications, you need to set up the screen structure for the supplier-initiated quality notification type (for example, Q7) on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.
2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Overview of Notification Type** . The Display View "Notification Type": Overview page appears.
3. Select the supplier-initiated quality notification type (for example, `Q7`).
4. Double-click the text Screen Structure for Extended View. The Change View "Screen Structure for Extended View": Overview page appears.
5. Click **New Entries**. The New Entries: Overview of Added Entries page appears.
6. Enter the following values:

   Screen element Reference Objects

   In the Function section, enter the following values:

   - **Tab**: 10\TAB01 – Notification 1
     In the Tabstrip control section, enter the following values:
   - **Tab header**: Reference Objects
   - **Tab**: Choose this field.
   - **Tab Page Allocatn**: 0
7. Press **Enter**. The section Screen area is now enabled for you to enter values.
8. In the Screen area section, enter the following values:

   - **Screen area 1**: 040 – Reference Documents
   - **Screen area 2**: 005 – Reference object
   - **Screen area 3**: 025 – Note on related notifications
   - **Screen area 4**: 031 – Subject and long text (Windows 32bit)
   - **Screen area 5**: 015 – Item with first cause

   Screen element Problem Details

   In the Function section, enter the following values:

   - **Tab**: 10\TAB02 – Additional data 1

- In the Tabstrip control section, enter the following values:
- **Tab header**: Problem Details
- **Tab**: Choose this field.
- **Tab Page Allocatn**: 0

9. Press **Enter**. The section Screen area is now enabled for you to enter values.
10. In the Screen area section, enter the following values:

    - **Screen area 1**: 035 – Contact person (customer/vendor/author)
    - **Screen area 2**: 045 – Organizational data
    - **Screen area 3**: 055 – Work center
    - **Screen area 4**: 010 – Processing
    - **Screen area 5**: 050 – Quantities

    Screen element processing

    In the Function section, enter the following values:

    - **Tab**: 10\TAB03 – Additional data 2
    - In the Tabstrip control section, enter the following values:
    - **Tab header**: Processing
    - **Tab Page Allocatn**: 0

    Screen element dates

    In the Function section, enter the following values:

    - **Tab**: 10\TAB04 – Dates
    - In the Tabstrip control section, enter the following values:
    - **Tab header**: Leave it blank
    - **Tab Page Allocatn**: 0

    Screen element malfunction data

    In the Function section, enter the following values:

    - **Tab**: 10\TAB05 – Malfunction data
    - In the Tabstrip control section, enter the following values:
    - **Tab header**: Leave it blank
    - **Tab Page Allocatn**: 0

    Screen element system availability

    In the Function section, enter the following values:

    - **Tab**: 10\TAB06 – System availability
    - In the Tabstrip control section, enter the following values:
    - **Tab header**: Leave it blank
    - **Tab Page Allocatn**: 0

    Screen element Item

In the Function section, enter the following values:

- **Tab**: 10\TAB10 – Item
- In the Tabstrip control section, enter the following values:
- **Tab header**: Items
- **Tab** : Choose this field
- **Tab Page Allocatn**: 0

Screen element tasks

In the Function section, enter the following values:

- **Tab**: 10\TAB11 – Tasks
- In the Tabstrip control section, enter the following values:
- **Tab header**: Actions
- **Tab** : Choose this field
- **Tab Page Allocatn**: 0

Screen element activities

In the Function section, enter the following values:

- **Tab**: 10\TAB12 – Activities
- In the Tabstrip control section, enter the following values:
- **Tab header**: Activities
- **Tab** : Choose this field
- **Tab Page Allocatn**: 0

Screen element Item 2

In the Function section, enter the following values:

- **Tab**: 10\TAB13 – Item 2
- In the Tabstrip control section, enter the following values:
- **Tab header**:
- **Tab Page Allocatn**: 0

Screen element actions

In the Function section, enter the following values:

- **Tab**: 10\TAB14 – All tasks
- In the Tabstrip control section, enter the following values:
- **Tab header**: Actions
- **Tab Page Allocatn**: 0

Screen element activities

In the Function section, enter the following values:

- **Tab**: 10\TAB15 – All activities
- In the Tabstrip control section, enter the following values:
- **Tab header**: Activities

- **Tab Page Allocatn**: 0

Screen element All causes

In the Function section, enter the following values:

- **Tab**: 10\TAB16 – All causes
- In the Tabstrip control section, enter the following values:
- **Tab header**: Leave it blank
- **Tab Page Allocatn**: 0

Screen element Item overview

In the Function section, enter the following values:

- **Tab**: 20\TAB01– Item overview
- In the Tabstrip control section, enter the following values:
- **Tab header**: Overview
- **Tab** : Choose this field
- **Tab Page Allocatn**: 0

Screen element Item causes

In the Function section, enter the following values:

- **Tab**: 20\TAB02– Item causes
- In the Tabstrip control section, enter the following values:
- **Tab header**: Causes
- **Tab** : Choose this field
- **Tab Page Allocatn**: 0

Screen element Item tasks

In the Function section, enter the following values:

- **Tab**: 20\TAB03– Item tasks
- In the Tabstrip control section, enter the following values:
- **Tab header**: Actions
- **Tab** : Choose this field
- **Tab Page Allocatn**: 0

Screen element Item tasks

In the Function section, enter the following values:

- **Tab**: 20\TAB04– Item activities
- In the Tabstrip control section, enter the following values:
- **Tab header**: Activities
- **Tab** : Choose this field
- **Tab Page Allocatn**: 0

11. Click **Save**. A message that the data was saved appears.
12. Go back to the Display View “Notification Type”: Overview screen and select the supplier-initiated quality notification type (for example, Q7).

13. Double-click the text Screen Structure for Simplified View in the tree structure. The Change View “Screen Structure for Simplified View”: Overview page appears.
14. Click **New Entries**. The New Entries: Overview of Added Entries page appears.
15. Enter the following values:

    Screen element Reference Objects

    In the Screen Structure for Simplified View section enter the following values:

    - **Tab Page Allocatn**: 0
    - **Screen area 1**: 031 – Subject and long text (Windows 32bit)
    - **Screen area 2**: 005 – Reference object
    - **Screen area 3**: 040 – Reference Documents
    - **Screen area 4**: 010 – Processing
    - **Screen area 5**: 037 – Partner overview screen (table control)
16. Click **Save**. A message that the data was saved appears.

Setting Up the Catalogs and Catalog Profiles for the Supplier-Initiated Quality Notification Types

Use this procedure to set up the catalogs and catalog profiles for the supplier-initiated quality notification types.

Context

Before you send and receive quality notifications, you need to set up the catalogs and catalog profiles for supplier-initiated quality notification type (for example, Q7).

Procedure

1. Run the transaction code `QCC0`.
2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Overview of Notification Type** . The Display View “Notification Type”: Overview page appears.
3. Select the supplier-initiated quality notification type (for example, Q7).
4. Double-click the text Catalogs and Catalog Profiles . The Change View “Catalogs and Catalog Profiles”: Details page appears.
5. In catalog profile section, enter the following values:

    Catalog profile – QM0000001 (Cat. Profile for Q-Notifs)

    In Catalogs for section, enter the following values:

    - **Coding**: D – Coding

- **Problems**: 9 – Defect Types
- **Causes**: 5 – Causes
- **Tasks**: 2 – Tasks
- **Activities**: 8 – Activities (QM)
- **ObjectParts**: E – Defect Locations

6. Click **Save**. A message that the data was saved appears.

Setting Up the Format Long Text for the Supplier-Initiated Quality Notification Types

Use this procedure to set up the format long text for the supplier-initiated quality notification types.

Context

Before you send and receive quality notifications, you need to set up the format long text for the supplier-initiated quality notification type (for example, Q7) on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.
2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Overview of Notification Type** . The Display View "Notification Type": Overview page appears.
3. Select the supplier-initiated quality notification type (for example, Q7).
4. Double-click the text Format Long Text. The Change View "Format Long Text": Details page appears.
5. In General long text formatting section, enter the following values:
   - **Log line**: Choose this field
   - **No text change**: Choose this field
6. Click **Save**. A message that the data was saved appears.

Setting Up the Priority Type for the Supplier-Initiated Quality Notification Types

Use this procedure to set up the priority type for the supplier-initiated quality notification types.

Context

Before you send and receive quality notifications, you need to set up the priority type for the supplier-initiated quality notification type (for example, Q7) on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.
2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Overview of Notification Type** . The Display View "Notification Type": Overview page appears.
3. Select the supplier-initiated quality notification type (for example, Q7).
4. Double-click the text Priority Type. The Change View "Priority Type": Details page appears.
5. In Priority type section, enter the following values:
   - **Priority type**: BN – SAP Business Network Prio
6. Click **Save**. A message that the data was saved appears.

Defining Mandatory Fields for Quality Notifications

Use this procedure to define mandatory fields for quality notifications.

Context

Before you send and receive quality notifications, you need to define the mandatory fields on your SAP ERP system.

Procedure

1. Run the transaction code `QCC0`.
2. Click the tree structure, **Quality Management** > **Quality Notifications** > **Notification Creation** > **Notification Type** > **Define Screen Templates** . The Choose Activity page appears.

3. Double click the text Field Selection: General Screens. The Field Selection: Modifiable Fields page appears.
4. In the **Req.** column, set the following Modifiable fields to mark them as mandatory fields in the quality notification screen:
    - Description
    - **Modifiable field**:Material
    - **Field name**: RIWO00-HEADKTXT
    - **Req.**: Select this field.
    - Priority
    - **Modifiable field**:Plant for material
    - **Field name**: VIQMEL-PRIOK
    - **Req.**: Select this field.
5. Click **Save**. A message that the data was saved appears.
6. Go back to the page, Choose Activity and double-click the text, Field Selection: Reference Object Screens.
7. In the **Req.** column, set the following Modifiable fields to mark them as mandatory fields in the quality notification screen:
    - Description
    - **Modifiable field**:Material
    - **Field name**: RQM00-MATNR
    - **Req.**: Select this field.
    - Priority
    - **Modifiable field**:Plant for material
    - **Field name**: RQM00-MAWERK
    - **Req.**: Select this field.
8. Click **Save**. A message that the data was saved appears.

Resending Quality Notification from SAP ERP or SAP S/4HANA to SAP Business Network

Use this procedure to resend quality notification from SAP ERP or SAP S/4HANA to SAP Business Network.

Context

You can resend a quality notification that is failed in SAP Integration Suite, managed gateway on its way to SAP Business Network or send a modified quality notification that is not automatically sent to SAP Business Network.

To resend a quality notification or send a modified quality notification to SAP Business Network, perform the following steps:

Procedure

1. Run the transaction code `ARBCIG_QLTY_NOITF`.

   The **Resend Quality Notification to SAP Business Network** page appears.
2. Enter the following details as required and click **Execute**.

Field	Description
Notification key	Enter the notification key or the range of notification keys of the quality notifications that you want to resend to SAP Business Network.
Resend QN Created	Choose to resend one or more quality notifications that you have created and sent to SAP Business Network, but failed in SAP Integration Suite, managed gateway. Using this option, you can send the quality notification as a new notification. In the **Notification key** field, you must specify the notification keys of these quality notifications.
Resend QN Changed	Choose to resend one or more quality notifications that you have modified to SAP Business Network. Using this option, you can send the quality notification as a changed notification. In the **Notification key** field, you must specify the notification keys of these quality notifications.

Implementing a Customer Exit for Quality Notifications

Use this procedure to implement a customer exit for quality notifications.

Context

Implement the customer exit, `EXIT_SAPMIW00_001` for quality notification to map the partner type OPPONENT.

- 01 - Buyer initiated quality notification
- 02 - Supplier initiated quality notification

Perform the following steps to implement the customer exit, `EXIT_SAPMIWO0_001`:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **SAP Ariba Supply Chain Collaboration** > **Quality Notification** .
4. Click **IMG-Activity** for **Implement a Customer Exit for Quality Notification**.

   The **Project Management of SAP Enhancements** screen appears.
5. In the **Project** field, enter the name of the project and click **Create**. For example, `ZOR`.

   The **Attributes of Enhancement Project <Project _Name>** page appears.
6. In the **Short text** field, enter the short text for the project and click **Enhancement assignments**. and enter name.
7. In the **Exit attribute processing** dialog box, click **Yes** to save the data.
8. In the **Create Object Directory Entry** dialog box, in the **Package** field, enter the package name and click **Save**.
9. In the **SAP Enhancements in Enhancement Project <Project _Name>** page, do the following:
   1. In the **Enhancement** field, enter the user exit name `QQMA0007` and press **Enter**.
   2. Click **Components**.
10. In the **Change <Project_Name>** page, double-click the enhancement `EXIT_SAPMIWO0_001`.
11. In the **Function Builder: Display EXIT_SAPMIWO0_001** page that appears, double-click `INCLUDE ZXM06U02` and click **Enter**.
12. Enter the following include:`INCLUDE ARBCIG_QUALITYNOTIFICATION_001 IF FOUND`.
13. Click **Activate**.
14. Go back and activate the user exit.

Maintaining Internal Tasks and Activities in Quality Notifications

Use this procedure to maintain internal tasks and activities in quality notifications.

Context

Maintain the internal tasks and activities that you do not want to send to SAP Business Network along with the quality notifications.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** page appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **SAP Ariba Supply Chain Collaboration** > **Quality Notification**.
4. Click **IMG Activity** for **Maintain Internal Task/Activity for Quality Notification**.

   The **Change View "Maintain Internal Task/Activity for Quality Notification"** page appears.
5. Click **New Entries**.
6. In the **Maintain Internal Task/Activity for Quality Notification** table, maintain the following values and click **Save**:

Field	Description
Cat. Prof	Choose or enter a catalog profile.
Catalog	Enter or choose **2** for tasks or **8** for activities.
Code group	Choose or enter the required code group.
Code	Choose or enter the code based on the code group.

Implementing BAdI for Disabling Quality Notification Filters

Use this procedure to implement BAdI for disabling quality notification filters.

Context

You can use the `ARBCIG_QN_FILTER` BAdI to disable the following quality notification filters:

- Filters that are based on the system and user status.
- Filters for internal tasks and activities.

You can use this BAdI to avoid applying the filters configured using the `QN_STAT_FILTER` parameter on some of the existing quality notifications. You can implement the logic in this BAdI to override the `QN_STAT_FILTER` filter for the quality notifications that are created based on certain criteria such as quality notification type, or date of creation, and so on.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** page appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Business Add-Ins (BAdI)** > **Quality Notification** > **BAdIs for Disabling Quality Notification Filters**.

   The **Business Add-Ins** screen appears.
4. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: `ARBCIG_QN_FILTER`

   The following table lists methods that you can implement:

Method name	Description
`SKIP_STATUS_CHECK`	To disable the filter for quality notifications based on their system and user status.
`SKIP_CODEGRP_CHECK`	To disable the filter for internal tasks and activities.

Parameter Persistence for Supported SAP Business Network Transactions

The default parameters for supported SAP Business Network transactions persist even after you delete them. When you delete a parameter from the table `ARBCIG_TVARV`, the parameter persists with blank values.

Configuration of Transactions Supported by SAP Ariba Procurement solutions

Prerequisites

Before you configure the inbound transactions for SAP Ariba Procurement solutions, you must apply SAP Note 1387485: **Account Assignment Distribution Value changes on Replication** for split by amount to use this functionality on their SAP ERP or SAP S/4HANA. You must also activate the **MM Multiple Account Assignment** business function (`LOG_MM_MAA_1`) to use the amount-based distribution for the amount and percentage distribution.

Contract [page 427]

ERP-Initiated Purchase Requisition [page 443]

Work Order-Based Requisitions [page 456]
Purchase Order [page 458]
Advance Payment [page 470]
Advance Payment Remittance [page 471]
Goods Receipt [page 476]
Export of Goods Receipts [page 478]
Service Entry Sheet [page 484]
ERP-Initiated Service Entry Sheets [page 491]
Invoice [page 496]
Sending the Status of Canceled Invoices from the ERP System [page 499]
Non-PO (FI) Invoice [page 505]
Payment Remittance [page 510]
Stock [page 515]
Derive Accounting Export [page 527]
Account Assignment Category N (Network) [page 528]

Contract

For any prerequisites and limitations of transactions, see Contracts in SAP Integration Suite, Managed Gateway Overview Guide.

Filtering the Contracts to Export [page 428]
Maintaining Parameters for Contract [page 429]
Maintaining the Last Contract Number [page 431]
Maintaining Field Map for Contract [page 432]
Exporting Contract Information [page 433]
Maintaining Realm When Exporting Contract Information [page 434]
Copying Contract-Related Content from Client 000 [page 435]
Importing Purchase Contracts from SAP ERP to SAP Ariba Procurement Solutions via Web Services [page 436]

Filtering the Contracts to Export

Use this procedure to filter the contracts to export.

Context

You can configure filters to send a specific set of contracts to SAP Ariba Procurement solutions. You can filter using the following conditions:

- Equality and inclusion: where Option is EQ and Sign is I.
- Ranges and exclusion: where Option is BT and Sign is E.
- Patterns and comparisons: where Option is CP and Sign is I or E.

To maintain filters for the contract records to export to SAP Ariba Procurement solutions, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Contract** > .
4. Click **IMG-Activity** for **Maintain Filters for Contract**.

   The **Prefilters - Ariba Procurement Contract Data** screen appears.
5. Maintain the following filters:

Variable name	Description	Supported values
ARBCIG_CONTRACT_EXPORT	Applicable for SAP Ariba Procurement solutions. (Optional) Set this parameter to filter the contracts fetched.	• **Variable Name** : ARBCIG_CONTRACT_EXPORT • **Field Name**: The field that designates the contracts and their properties in the table **EKK0**. • **Type**: S • **Number**: 0000 • **Variant**: The unique variant name of the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name of the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Sign**: For example, I. • **Option**: For example, EQ. • **Low**: Enter the filter value for the criterion you set for the field. • **High**: Blank if the **Option** field is not BT.

Maintaining Parameters for Contract

Use this procedure to maintain parameters for contract.

Context

To maintain parameters for contract, perform the following steps:

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Contract** >.

4. Click **IMG-Activity** for **Maintain Parameters for Contract**.

   The **Parameters - Ariba Contract** screen appears.

5. Maintain the following parameters:

Parameter name	Description	Supported values
DISCOUNT_CONDITION_TYPE	This paramter holds the Condition Type for discount in a contract. Based on the discount value the records in Tiered Pricing and and Term Pricing will change.	• **Variable Name**: DISCOUNT_CONDITION_TYPE • **Field Name**: Leave it blank. • **Number**: 0000 • **Variant**: Provide a variant for SAP Ariba Procurement solutions. • **Partition**: Provide a partition for SAP Ariba Procurement solutions. • **Low**: For example, `RA01`
DISCOUNT_CONDITION_TYPE_OUT	This paramter holds the Condition Type for Discount of a Service Outline in a contract. Maintaining this value alters the output of records in Tiered Pricing and and Term Pricing.	• **Variable Name**: DISCOUNT_CONDITION_TYPE_OUT • **Field Name**: Leave it blank. • **Number**: 0000 • **Variant**: Provide a variant for SAP Ariba Procurement solutions. • **Partition**: Provide a partition for SAP Ariba Procurement solutions. • **Low**: For example, `KR01`
DISCOUNT_CONDITION_TYPE_SRV	This paramter holds the Condition Type for Discount of a Service Specification in a contract. Maintaining this value alters the output of records in Tiered Pricing and and Term Pricing.	• **Variable Name**: DISCOUNT_CONDITION_TYPE_SRV • **Field Name**: Leave it blank. • **Number**: 0000 • **Variant**: Provide a variant for SAP Ariba Procurement solutions. • **Partition**: Provide a partition for SAP Ariba Procurement solutions. • **Low**: For example, `01RP`
PRICE_CONDITION_TYPE	This paramter holds the Condition Type for Price in a contract. Maintaining this value alters the output of records in Tiered Pricing and Term Pricing..	• **Variable Name**: PRICE_CONDITION_TYPE • **Field Name**: Leave it blank. • **Number**: 0000 • **Variant**: Provide a variant for SAP Ariba Procurement solutions. • **Partition**: Provide a partition for SAP Ariba Procurement solutions. • **Low**: For example, `PB00`

Parameter name	Description	Supported values
PRICE_CONDITION_TYPE_SRV	This paramter holds the Condition Type for Price of a Service Specification in a contract. Maintaining this value alters the output of records in Tiered Pricing and and Term Pricing.	• **Variable Name**: PRICE_CONDITION_TYPE_SRV • **Field Name**: Leave it blank. • **Number**: 0000 • **Variant**: Provide a variant for SAP Ariba Procurement solutions. • **Partition**: Provide a partition for SAP Ariba Procurement solutions. • **Low**: For example, **PRS**

Maintaining the Last Contract Number

Use this procedure to maintain the last contract number.

Context

To maintain the contract number from which all the contracts are to be extracted, perform the following steps. This is a one time activity.

> **Note**
>
> In this configuration task, you maintain the data in the `ARBCIG_LASTCONTR` table. To use this table in a new SAP system landscape, you must maintain the data manually.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Contract** >.
4. Click **IMG-Activity** for **Maintain the last contract number**.

   The **Change View "Ariba Last Pulled Contract Document": Overview** screen appears.
5. Click **New Entries**.

   The **New Entries: Overview of Added Entries** screen appears.

6. Enter the following information:
    - **Purchasing Document Number**: Enter the contract number from which contracts are to be exported.
    - **Type**: Enter the contract document type.
7. Click **Save**.

Maintaining Field Map for Contract

Use this procedure to map the custom fields in SAP ERP to SAP Ariba solution custom fields for contracts.

Context

This is an optional activity. Do not change the default values.

> ⓘ Note
>
> In SAP ERP, the fields are always in upper case but in SAP Ariba, it is in mixed case.

Procedure

1. Run the transaction code `SPRO`.

    The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

    The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Contract** > .
4. Click **IMG-Activity** for **Maintain Field Map for Contract**.

    The **Change View "Table to maintain mapping of SAP to Buyer fields": Overview** screen appears..
5. Click **New Entries** in the application toolbar to add new entries.
6. Enter the following details:
    - **Solution**: Select a solution from the list for which you are mapping the field.
    - **Structure**: Add a structure name. For example, `ARBCIG_CONTRACTACCOUNTINGS`. You can select one of the following structures for contract.
        - `ARBCIG_CONTRACTACCOUNTINGS`
        - `ARBCIG_CONTRACTHEADER`
        - `ARBCIG_CONTRACTLINEITEMS`
        - `ARBCIG_CONTRACTTERMPRICING`

    - ARBCIG_CONTRACTTIEREDPRICING
    - ARBCIG_CONTRACTPRICELIMITS
  - **Field SAP**: Add the SAP ERP field name that you want to map. For example, COMPANYCODE
  - **Field Ariba**: Add the SAP Ariba solution field name to which you want to map. For example, CompanyCode
7. Click **Save**.

Exporting Contract Information

Use this procedure to export contract information.

Context

The ARBCIG_CONTRACT_EXPORT program is used to export contract information to SAP Ariba Procurement solutions. The new contracts are fetched from the EKKO table and the details of the contracts are fetched using BAPI_CONTRACT_GETDETAIL. The last run date, last run time, and the latest contract data are updated in the ARBCIG_LASTCONTR table. You can set additional filters in the ARBCIG_TVARV table.

Procedure

1. Run the transaction code SE38.

   The **ABAP Editor: Initial Screen** appears.
2. Run the **ARBCIG_CONTRACT_EXPORT** program.

   The **Export Contract Information to Ariba On-Demand Application** screen appears.
3. Select **Direct Connectivity** and enter the following information under **Configuration** section:
   - **Variant**: Provide a variant for SAP Ariba Procurement solutions.
   - **Partition**: Provide a partition for SAP Ariba Procurement solutions.
4. If you want to see the records before exporting, select **Test Run** and specify the **Download File Location**.
5. Click **Execute**.

Maintaining Realm When Exporting Contract Information

This procedure describes how to maintain realm when exporting contract information in a federated process control (FPC) scenario.

Context

You can indicate the realm on selection screen for **ARBCIG_CONTRACT_EXPORT** and the contracts are sent only to the specified realm by validating its presence in the table ARBCIG_AUTHPARAM.

To maintain selection text for FPC realms, perform the following steps:

Procedure

1. Run the transaction code SE38.

   The **ABAP Editor: Initial Screen** appears.
2. For **Program**, enter **ARBCIG_CONTRACT_EXPORT**.

   The **ABAP Editor: Display Report ARBCIG_CONTRACT_EXPORT** screen appears.
3. On the **Menu** bar, navigate to **Goto** > **Text Elements**.

   The **ABAP Text Elements: Display Text Symbols Language English** screen appears.
4. Change to **Edit** mode.
5. Maintain the following:

   Under **Text Symbols**

   > **Note**
   >
   > The following text symbols must be added at the end of existing text symbols.

Sym	Text
111	**Parent/Child Realm is empty**
112	**Realm ID is not found in table ARBCIG_AUTHPARAM**
113	**Please Maintain the Parent/Child Realm in ARBCIG_AUTHPARAM table**
114	**Multiple Realms are found in ARBCIG_AUTHPARAM**

   Under **Selection Texts**

Name	Text
P_FPC	FPC Enabled
P_REALM	Site

6. Save and activate.

Related Information

Exporting Contract Information [page 433]

Copying Contract-Related Content from Client 000

Use this procedure to copy contract-related content from client 000.

Context

Perform the following steps to copy the field map entries from client 000 to your production client before you import the master data. You require this procedure to import contract data from SAP ERP and send it to SAP Ariba Procurement solutions or SAP Ariba strategic sourcing solutions.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Contracts** .
4. Click **IMG-Activity** for **Maintain Field Map for Contract**.

   The **Change View "Table to maintain mapping of SAP to Buyer fields": Overview** screen appears.
5. Navigate to **Utilities** > **Adjustment** from the menu.
6. Enter the R/3 connection that points to the client 000 and click **Yes**.

> ### Note
>
> You can create an RFC destination of connection type 3 (ABAP connections) for client 000 using SPRO on ERP. For more information, see Creating an RFC Destination for SAP Integration Suite, Managed Gateway in SAP Integration Suite, Managed Gateway Installation Guide.

7. Click **Yes** on the resulting screen.

   The **Overview: Adjustment** screen appears.
8. Choose the entries which you want to adjust.
9. Click **Adjust**.

   The **Detail View: Adjust** screen appears.
10. Click **All**.
11. Click **Back** twice to return to **Change View "Table to maintain mapping of SAP to Buyer fields": Overview**
    The **Data has been changed by adjustment. Copy changes?** screen appears.
12. Click **Yes**.
13. Click **Save**.
14. Enter the transport number if it asks for it.

    For more information, see SAP Note 2435438

Importing Purchase Contracts from SAP ERP to SAP Ariba Procurement Solutions via Web Services

Use this feature to import purchase contracts from SAP ERP into SAP Ariba Procurement solutions using web services via SAP Integration Suite, managed gateway. The imported purchase contracts are automatically converted into compliance contracts. If you are using SAP S/4HANA 2022 or later releases, you can also import contracts that include lean services with item hierarchies.

> ### Note
>
> Only purchase contracts with **Split Accounting Type** set to **Percentage** can be imported.

Limitations

- If you're using SAP S/4HANA 2022 or later releases and trying to import purchase contracts with the new add-on component, S4CI1, note that the DRF functionality does not support MMSRV contracts.
- Attachments are not supported.

Configuration

You can import purchase contracts using one of the following ways:

- Using the `ARBCIG_CONTRACT_EXPORT` program. To do so, perform the following steps:
  1. Configure the SOAP service to link SAP Integration Suite, managed gateway and the SAP Ariba Procurement solutions. Please see Configuring SOAP Service for ARBCIG_CONTRACT_EXPORT [page 438].
  2. Execute the `ARBCIG_CONTRACT_REPORT` program. Please see Using the ARBCIG_CONTRACT_REPORT program [page 438].
- If you are using SAP S/4HANA 2022 or later releases, and using the lean service procurement capability, you can import purchase contracts using the new add-on component, S4CI1.
  To use the new add-on component, perform the following steps:
  - **Prerequisite**: You must have the latest add-on component, S4CI1, installed:
    - SAP ERP
      - ARBCI1 100: SP 0024 or later
    - SAP S/4HANA
      - ARBCI1 10S: SP 0024 or later
      - S4CI1 100 : SP01 or later

    Existing buyers using SAP Integration Suite, managed gateway can install the add-on based on the following criteria:
    - SAP ERP
      - If you are using ARBCI1 100:
        - Upgrade to the latest version ARBCI1 100: SP 0024 or later
    - SAP S/4HANA
      - If you are using ARBCI1 10S:
        - Upgrade to the latest version ARBCI1 10S: SP 0024 or later
        - Install SAP S4CI1 100 : SP01 or later

    For information on how to install the add-on, please see Installing and Upgrading the Add-On for SAP ERP and SAP S/4HANA
  1. Configure the endpoints to link SAP Integration Suite, managed gateway and the SAP Ariba Procurement solutions. Please see Configuring SOAP Service for the S4CI1 Add-On [page 439].
  2. Configure the DRF. Please see Configuring the Replication Model in DRF [page 440].

You can choose to implement the `S4CINT_CONTRACTDET` BAdI to customise the logic to import purchase contracts. For more information on using this BAdI, please see Implementing BAdI for Supported Transactions in SAP Ariba Procurement Solutions [page 608].

Related Information

Contract Compliance API

Configuring SOAP Service for ARBCIG_CONTRACT_EXPORT

Context

To configure the SOAP service to pass the purchase contracts extracted using the `ARBCIG_CONTRACT_EXPORT` program, perform the following steps:

Procedure

1. Run the transaction code `SE38`.
   The **ABAP Editor: Initial Screen** appears.
2. Run the `ARBCIG_INTERFACE_SETUP_P2P` program.
   The **Interface Setup Program for SAP Ariba Procurement** screen appears.
3. Under **Interface Setup for Web Service** > **Outbound messages sent to Managed Gateway for Spend&Network** , select the **Contract Request** checkbox and execute.

Using the ARBCIG_CONTRACT_REPORT program

Prerequisites

Ensure that the SOAP service is configured. For more information, please see .Configuring SOAP Service for ARBCIG_CONTRACT_EXPORT [page 438]

Context

The `ARBCIG_CONTRACT_EXPORT` program is used to export contract information to SAP Ariba Procurement solutions. The new contracts are fetched from the `EKKO` table and the details of the contracts are fetched using `BAPI_CONTRACT_GETDETAIL`. The last run date, last run time, and the latest contract data are updated in the `ARBCIG_LASTCONTR` table. You can set additional filters in the `ARBCIG_TVARV` table.

You can configure filters to send a specific set of contracts to SAP Ariba Procurement solutions. You can filter using the following conditions:

- Equality and inclusion: where **Option** is EQ and **Sign** is I.

- Ranges and exclusion: where **Option** is BT and **Sign** is E.
- Patterns and comparisons: where **Option** is CP and **Sign** is I or E.

Procedure

1. Run the transaction code `SE38`.
   The **ABAP Editor: Initial Screen** appears.
2. Run the `ARBCIG_CONTRACT_EXPORT` program.
   The **Export Contract Information to Ariba On-Demand Application** screen appears.
3. Under **Connectivity**, select **Direct Connectivity**.
4. Under **Web Service**, check the **Import Contract Request** checkbox.
5. Enter the following information under the **Configuration** section:
   - **Variant**: Provide a variant for SAP Ariba Procurement solutions.
   - **Partition**: Provide a partition for SAP Ariba Procurement solutions.
6. Click **Execute**.

Related Information

Maintaining Realm When Exporting Contract Information [page 434]
Filtering the Contracts to Export [page 428]

Configuring SOAP Service for the S4CI1 Add-On

Prerequisites

- You must have SAP S/4HANA 2022 or higher releases.

Context

To configure a consumer proxy to access a particular service, you need to create and configure one or more logical ports. A logical port is created for a specific consumer proxy to access one particular binding on the provider system. You can create more than one logical port for the same consumer proxy. However, each logical port can point to only one binding. Use this procedure to configure the transaction code SOAMANAGER to connect with the SAP Integration Suite, managed gateway.

Procedure

1. Run the transaction code SPRO.
2. Navigate to **Integration with Other SAP Components** > **Integration with Procurement Applications** > **General Settings** > **Set Up the Interface** > **Configure the Connections to Send Messages_V1**.

   The **Interface Setup Program for SAP Ariba Solutions** page appears.
3. Under the **Data Center** section, choose the appropriate data center.
4. Under **Managed Gateway for Spend&Network Connection**, choose **Connect to Production Environment** to connect to a production environment, or choose **Connect to Test Environment** to connect to a test environment.
5. Under **Logon Data**, choose one of the following authentication methods:
   - **User ID/Password**:
     - In the **User Name** text box, enter the P user ID that you activated while registering with SAP Integration Suite, managed gateway.
     - In the **Password** text box, enter the password for the P user ID. The password you specify here must match the password you entered while registering with SAP Integration Suite, managed gateway.
   - **X.509 SSL Client Certificate**: Choose a certificate in the **Certificate Name** field.
6. Under **HTTP Proxy Options**, enter the following details:
   - Enter the HTTP proxy name in the **Name of Proxy Host** field. For example, proxy.abc.com.
   - Enter the port name in the **Port Number of Proxy Host** field. For example, 8080.
   - Enter the user name for the proxy server in the **User Name of Proxy Server** field. For example, Acme12.
   - Enter the password for the registered user name in the **Proxy User Password** field. For example, 1Aze45lmnwe.
7. To import purchase contracts, under the **Interface Setup Using Web Service for Procurement** section, select the following check box:
   - **Purchase Contract Export**
8. Execute.

Configuring the Replication Model in DRF

Prerequisites

The following requirements must be met:

- You must have the latest add-on S4CI1, installed. For information on how to install the add-on, please see Installing and Upgrading the Add-On for SAP ERP and SAP S/4HANA.
- You must be working on SAP S/4HANA 2022 or higher releases.
- You have configured the data replication.
- SOAP service is configured. For more information, please see Configuring SOAP Service for the S4CI1 Add-On [page 439].

Context

You can use the Data Replication Framework (DRF) to send master and transactional data from SAP S/4HANA to SAP Ariba Buying solutions for execution using web services. To do so, perform the following steps:

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **Integration with Procurement Applications** > **Application Specific Settings** > **Purchase Contract** > **Define Technical Settings for Business Systems**.
   a. On the **Change View "Define Business Systems": Overview** screen, click **New Entries**.
   b. Enter the **Business System** name as target system's realm ID.
   c. Click **Save**.
   Your business system is created.
   d. Choose the business system that you created and double-click **Define Bus.System, BO** in **Dialog Structure** on the side menu.
   e. On the **Define Bus.Systems, Bos: Overview** screen, click **New Entries**.
   f. Enter the following information:
      - **BO Type**: `S4CI_B_PC`
      - **Description**: `S4CINT Purchase Contract Business Object`
      - **Outp.Mode**: `Object-Dependent Default`
4. Navigate to **Integration with Other SAP Components** > **Integration with Procurement Application** > **Application Specific Settings** > **Purchase Contracts** > **Define Replication Models**.
   a. On the **Change View "Define Replication Model": Overview** screen, click **New Entries**.
   The **New Entries: Overview of Added Entries** screen appears.
   b. Enter the following information:
      - **Replication Model**: The name of the replication model for the service interface.
      - **Description**: The description for the replication model.
   c. Click **Save**.
   d. Select the replication model you created and double-click **Assign Outbound Implementation** in **Dialog Structure** on the side menu.
   e. On the **Change View "Assign Outbound Implementation": Overview** screen, click **New Entries** and add the following outbound implementation:
      - **Outbound Implementation**: `S4CIN_O_PC`
      - **Description**: `S4CINT Purchase Contract Outbound Implementation`
      - **Communication Channel**: `Replication via Services`
      - **Filter Time**: `Filter After Change Analysis`

f. Click **Save**.

g. Choose the outbound implementation **S4CIN_O_PC** and double-click **Assign Target Systems for Repl. Model /Outb.Impl** in **Dialog Structure** on the side menu.

h. On the **Change View "Assign Target Systems for Repl. Model /Outb.Impl": Overview** screen, select the business system that you created in **Step 3**.

i. Click **Save**.
Your replication model is created.

5. To maintain the parameter for condition type, perform the following steps:

a. Navigate to **Integration with Other SAP Components** > **Integration with Procurement Application** > **Application Specific Settings** > **Purchase Contract** > **Maintain Parameters for Condition Type**.

b. Click **IMG-Activity** for **Maintain Parameters for Condition Type**.
The **Maintain Item Condition type for Purchase Contract** screen appears.

c. Click **New Entries**.

d. Maintain the following condition types:

Condition type	Description	Supported values
DISCOUNT_CONDITION_TYPE	This parameter holds the Condition Type for discount in a contract. Based on the discount value the records in Tiered Pricing and and Term Pricing will change.	• **Condition Name**: DISCOUNT_CONDITION_TYPE • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: For example, `RA01`
DISCOUNT_CONDITION_TYPE_OUT	This parameter holds the Condition Type for Discount of a Service Outline in a contract. Maintaining this value alters the output of records in Tiered Pricing and and Term Pricing.	• **Condition Name**: DISCOUNT_CONDITION_TYPE_OUT • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: For example, `KR01`
DISCOUNT_CONDITION_TYPE_SRV	This parameter holds the Condition Type for Discount of a Service Specification in a contract. Maintaining this value alters the output of records in Tiered Pricing and and Term Pricing.	• **Condition Name**: DISCOUNT_CONDITION_TYPE_SRV • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: For example, `01RP`
PRICE_CONDITION_TYPE	This parameter holds the Condition Type for Price in a contract. Maintaining this value alters the output of records in Tiered Pricing and Term Pricing.	• **Condition Name**: PRICE_CONDITION_TYPE • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: For example, `PB00`
PRICE_CONDITION_TYPE_SRV	This parameter holds the Condition Type for Price of a Service Specification in a contract. Maintaining this value alters the output of records in Tiered Pricing and and Term Pricing.	• **Condition Name**: PRICE_CONDITION_TYPE_SRV • **Field Name**: Leave it blank. • **Number**: 0000 • **Low**: For example, **PRS**

e. Click **Save**.
Your condition types are created.

6. To execute data replication, perform the following steps:
    a. Run the transaction code `DRFOUT`.
    The **Execute Data Replication** screen appears.
    b. Enter the following information:
        1. Under **Replication Model**, enter the replication model that you've created.
        2. Under **Outbound Implementation**, enter **`S4CIN_O_PC`**.
        3. Under **Replication Mode**, choose **Manual**.

        > ### Note
        > The other replication models, **Changes** and **Initialization** are not supported.

    c. Click **Manual Replication Filter Criteria** at the top and define the filter criteria.

    > ### Note
    > - While defining the filter criteria, you can select either a single value or a range of values, **Multiple Selection** is not supported.
    > - For negation scenarios, delta load extraction is a limitation.

    d. Click **Save**.
    e. Click **Execute**.
    The purchase contracts are exported from SAP S/4HANA to SAP Integration Suite, managed gateway.

ERP-Initiated Purchase Requisition

For any prerequisites and limitations of the transaction, read Transactions for SAP Ariba Procurement solutions in SAP Integration Suite, Managed Gateway Overview Guide.

Determining the Purchase Requisition Records to Export [page 444]

Maintaining Parameters for ERP-Initiated Purchase Requisitions [page 446]

Filtering the Purchase Requisition Records to Export [page 447]

Exporting Purchase Requisition Data to SAP Ariba Procurement solutions [page 449]

Resending Purchase Requisition Records [page 450]

Implementing Customer Exit for ERP-Initiated Purchase Requisitions [page 451]

Scheduling the Job to Export ERP-Initiated Purchase Requisitions to SAP Ariba Procurement Solutions [page 452]

Implementing the BAdI to Customize ERP-Initiated Purchase Requisition [page 453]

Implementing the BAdI to Customize the Status Update Response from SAP Ariba Procurement solutions [page 454]

Implementing the BAdI to Customize Information for Aggregating Requisitions [page 455]

Demand Aggregation for Purchase Requisitions [page 456]

Determining the Purchase Requisition Records to Export

Use this procedure to determine the purchase requisition records to export.

Context

You can configure the timestamp to determine the purchase requisition records to export to SAP Ariba Procurement solutions. SAP ERP or SAP S/4HANA exports the purchase requisition data records that are created after the date and time specified in the timestamp. After you run the export program, the timestamp is updated to the time you last ran the export program. When you run the export program, it considers the requisition document number, date, and time that is defined in this activity.

For example, purchase requisition number PR10001 was created on October 1, 2019. If the information maintained in the timestamp is:

- Purchase Requisition: PR10001
- Date: 10/1/2019
- Time: 00:00:00

The export program would send all the purchase requisitions from PR10001 onwards created since 10/1/2019.

If the information maintained in the timestamp is:

- Purchase Requisition: PR10001
- Date: 10/2/2019
- Time: 00:00:00

The export program would send all the purchase requisitions created since 10/2/2019, as all the requisition document numbers created after 10/1/2019 would be greater than PR10001.

If the information maintained in the timestamp is:

- Purchase Requisition: PR10001
- Date: 9/30/2019
- Time: 00:00:00

The export program would send all the purchase requisitions from PR10001 onwards since it was created after 9/30/2019.

Perform the following steps to configure the timestamp:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **ERP-initiated Purchase Requisition**
4. Click **IMG-Activity** for **Maintain Timestamp**.

   The **Change View "Timestamp for Document Export": Overview** page appears.
5. On the application toolbar, click **New Entries**.
6. In the **New Entries: Overview of Added Entries** table, enter the following details and click Save.

Field	Description
Solution	Select `Ariba Procurement Integration`.
Variant	The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2.
Partition	The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2.
Document Type	The document type or the type of purchase requisition that you would like to export.
Document Number	(Optional) Specify the requisition number that you want to export. The export program will send the records from the specified requisition number onwards that were created on or after the defined date.
Date	Specify the requisition creation date. The export program will send the requisitions created on or after the specified date. Enter the date in the YYYYMMDD format. For example, `20180711`
Time	Specify the requisition creation time. The export program will send the requisitions created on or after the specified date and time. Enter the time in the hhmmss format. For example, `090906`

Maintaining Parameters for ERP-Initiated Purchase Requisitions

Use this procedure to maintain parameters for ERP-initiated purchase requisitions.

Context

Maintain the parameters to export the changes to the purchase requisitions. To maintain the parameters, perform the following steps:

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **ERP-initiated Purchase Requisition** >.
4. Click **IMG-Activity**for **Maintain Parameters for ERP Requisition Export**.

   The **Parameters - ERP Requisition Export** screen appears.
5. Maintain the following parameters:

Parameter name	Description	Supported values
BUY_PR_EXPORT_CHANGES	Applicable for SAP Ariba Procurement solutions. (Optional) Enable this parameter to export the purchase requisition changes done in SAP ERP or SAP S/4HANA. This option is not applicable to full load export.	• **Variable Name:** : BUY_PR_EXPORT_CHANGES • **Field Name**: Leave it blank • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Low**: Specify 'X' to enable or leave it blank to disable.

Parameter name	Description	Supported values
BUY_PR_CHANGE_ENABLED	Applicable for SAP Ariba Procurement solutions. (Optional) Enable this parameter so that the `EXIT_SAPLMEREQ_008` customer exit will trigger to prevent cyclic updates of the purchase requisition when you run the incremental export of the requisitions from SAP ERP or SAP S/4HANA. The customer exit will add the purchase requisition records updated on SAP Ariba Procurement solutions to the `ARBCIG_BUY_REQ` table. The records in the table will not be considered in the next incremental export from SAP ERP or SAP S/4HANA. If the same purchase requisition is again updated in SAP ERP or SAP S/4HANA, the customer exit will remove the record from the `ARBCIG_BUY_REQ` table. The updated purchase requisition record will now be considered in the next incremental export from SAP ERP or SAP S/4HANA.	• **Variable Name:** : BUY_PR_CHANGE_ENABLED • **Field Name**: Leave it blank • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Low**: Specify 'X' to enable the customer exit or leave it blank to keep it disabled.

6. Click **Save**.

Filtering the Purchase Requisition Records to Export

Use this procedure to filter the purchase requisition records to export.

Context

You can configure filters to send a specific set of purchase requisition records to SAP Ariba Procurement solutions. You can filter using the following conditions:

- Equality and inclusion: where Option is EQ and Sign is I.
- Ranges and exclusion: where Option is BT and Sign is E.
- Patterns and comparisons: where Option is CP and Sign is I or E.

To maintain filters for the purchase requisition records to export to SAP Ariba Procurement solutions, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **ERP-initiated Purchase Requisition** .
4. Click **IMG-Activity**for **Maintain Filters**.

   The **Prefilters - ERP Requisition Export** screen appears.
5. Maintain the following filters:

Variable name	Description	Supported values
BUY_PR_EXPORT	Applicable for SAP Ariba Procurement solutions. (Optional) Set this parameter to filter the requisitions fetched from the EBAN table, which are then exported to SAP Ariba Procurement solutions.	• **Variable Name** : BUY_PR_EXPORT • **Field Name**: The field to filter. For example, WERKS. • **Type**: S • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Sign**: For example, I. • **Option**: For example, EQ. • **Low**: Enter the filter value for the criterion you set for the field. • **High**: Blank if the **Option** field is not BT.

6. Click **Save**.

Exporting Purchase Requisition Data to SAP Ariba Procurement solutions

Use this procedure to export purchase requisition data to SAP Ariba Procurement solutions.

Context

This program is used to send purchase requisitions created in SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. The header details, item details, and accounting details of the purchase requisition are included in the export.

You can set additional filters for the export. For example, you can filter the purchase requisitions based on the plant. For more information, see Filtering the Purchase Requisition Records to Export [page 447].

Before running the export program, you must configure the date from which the records must be exported. A full load export will send only the new requisitions.

When you run an incremental load export, the exported payload will include the changes to the existing purchase requisitions along with new requisitions if the **BUY_PR_EXPORT_CHANGES** parameter is enabled.

The deleted purchase requisitions are included in the **Incremental Load** export but not in the **Full Load** and **Resend** exports.

Prerequisites

- Configure the date from which the records must be exported. A full load export will send only the new requisitions that are not yet exported to SAP Ariba Procurement solutions. For more information, see Determining the Purchase Requisition Records to Export [page 444].
- Enable the **BUY_PR_EXPORT_CHANGES** parameter to export the changes to the existing purchase requisitions along with new requisitions when you run an incremental load export. For more information, see Maintaining Parameters for ERP-Initiated Purchase Requisitions [page 446].

Procedure

1. Run the transaction code `ARBCIG_BUYER_PR_EXP`.

   The **Requisition Export to Procurement Solutions** screen appears.
2. Enter the following details:

Field	Description
Display Data	Select this option if you want to perform the test run of sending purchase requisition information from SAP ERP to SAP Ariba Procurement solutions.

Field	Description
Variant	The unique variant name for the SAP Ariba Procurement solutions in SAP ERP for purchase requisition records. For example, **VSAP**
Partition	The unique name of your site for the SAP Ariba Procurement solutions in SAP ERP for purchase requisition records. For example, **PSAP**
Batch Size	This option is visible only when **Display Data** option is not selected. Enter the number of records to export.
Comments	Select this option to include header and item comments in the export. It is not selected by default.
Full Load	Select this option to export all the purchase requisition records.
Incremental Load	Select this option to export a set of records between a date range or all the records since the last export.
Resend	Select this option to resend a specific set of purchase requisition records. Provide the purchase requisition number or the range of numbers to resend.

3. Click **Execute**.

Resending Purchase Requisition Records

Use this procedure to resend purchase requisition records.

Context

If some of the requisitions fail to export because of any issue in the master data or due to some other error, you can resend the requisitions to SAP Ariba Procurement solutions from SAP ERP or SAP S/4HANA. You must specify the purchase requisition number or the range of numbers that you want to resend.

Procedure

1. Run the transaction code `ARBCIG_BUYER_PR_EXP`.

   The **Requisition Export to Procurement Solutions** screen appears.
2. Enter the following details:

Field	Description
Resend	Select this option to resend a specific set of purchase requisition records. Provide the purchase requisition number or the range of numbers to resend.

3. Click **Execute**.

Implementing Customer Exit for ERP-Initiated Purchase Requisitions

Use this procedure to implement customer exit for ERP-initiated purchase requisitions.

Context

When an ERP-initiated purchase requisition is updated in SAP Ariba Procurement solutions, the changes to the requisition are sent back to SAP ERP or SAP S/4HANA. When you run the incremental export, the same requisition will be sent back to SAP Ariba Procurement solutions even though there is no change done in SAP ERP or SAP S/4HANA.

Implement this customer exit to prevent cyclic updates of the purchase requisition when you run the incremental export of the requisitions from SAP ERP or SAP S/4HANA.

The customer exit will add the purchase requisition records updated in SAP Ariba Procurement solutions to the `ARBCIG_BUY_REQ` table. The records in the table will not be considered in the next incremental export.

If the same purchase requisition is again updated on SAP ERP or SAP S/4HANA, the record is removed from the `ARBCIG_BUY_REQ` table. The updated purchase requisition record will be considered in the next incremental export.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **ERP-initiated Purchase Requisition** > .
4. Click **IMG-Activity** for **Implement a Customer Exit for Purchase Requisition**.

   The **Project Management of SAP Enhancements** screen appears.

5. Enter a name in the **Project** field. For example, `ZMMIDOC`. If you already have an existing SAP project for enhancement `MEREQ001`, use the same project.
6. Click **Create** and enter a description in the **Short Text** field.
7. Click **Save**.
8. Click **Enhancement assignments**. The **Create Object Directory Entry** screen appears.
9. Choose the package.
10. Save the changes. The **SAP Enhancements in Enhancement Project** <object name> page appears.
11. Enter `MEREQ001` in the **Enhancement** field and then press **Enter**.
12. Click **Components**.
13. Double-click **EXIT_SAPLMEREQ_008**. The program **INCLUDE - ZXM02U08** appears.
14. Double-click **INCLUDE - ZXM02U08** in the **Function Builder: Display EXIT_SAPLMEREQ_008** page to create the program.
15. Enter the following include: **INCLUDE ARBCIG_BUY_PR_UPDATE IF FOUND**.
16. Save the entries.
17. Click the **Activate** button to go back to the **CMOD** screen.
18. Activate the customer exit in the **CMOD** screen.

Scheduling the Job to Export ERP-Initiated Purchase Requisitions to SAP Ariba Procurement Solutions

Use this procedure to schedule the job to export ERP-initiated purchase requisitions to SAP Ariba Procurement Solutions.

Context

To send purchase requisition records from SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions, you can schedule the job using the `ARBCIG_BUY_PR_EXPORT` program.

Procedure

1. Run the transaction code `SM36`.

   The **Define Background Job** screen appears.
2. In the **Program** field, enter `ARBCIG_BUY_PR_EXPORT`.
3. Schedule the program.

Implementing the BAdI to Customize ERP-Initiated Purchase Requisition

Use this procedure to implement the BAdI to customize ERP-initiated purchase requisition.

Context

To implement BAdI to customize ERP-initiated purchase requisition, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Business Add-Ins(BAdIs)** > **ERP-initiated Purchase Requisition Export** > .
4. Click **IMG-Activity** for **BAdI for ERP-initiated Purchase Requisition Export**.

   The **BAdI Implementations** screen appears.
5. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.

Transaction	BAdI	Description	Method
ERP-initiated Purchase Requisition	`ARBCIG_ERP_REQUISITION_EXPORT`	To enhance or modify data of ERP-initiated purchase requisition. Use this BAdI for processing enhancements before sending the message to SAP Ariba Procurement solutions.	PUBLISH_REQUISITION - Process the final requisition data. PROCESS_ACCOUNT - Process the accounting data in the requisition. PROCESS_ITEM - Process the item data in the requisition. PROCESS_REQUISITION_DATA - Process the requisition data extracted from the **EBAN** table. PRE_PROCESS - Process requisition data for the `EXIT_SAPLMEREQ_008` customer exit.

Implementing the BAdI to Customize the Status Update Response from SAP Ariba Procurement solutions

Use this procedure to implement the BAdI to customize the status update response from SAP Ariba Procurement solutions.

Context

To implement BAdI to customize the status update response from SAP Ariba Procurement solutions for ERP-initiated purchase requisitions, perform the following steps:

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Business Add-Ins(BAdIs)** > **Procurement Response to ERP**.
4. Click **IMG-Activity** for **BAdI for Procurement Response to ERP**.

   The **BAdI Implementations** screen appears.
5. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.

Transaction	BAdI	Description	Method
ERP-initiated Purchase Requisition	ARBCIG_BUYER_STATUS_UPDATE	To enhance or modify the document status data of ERP-initiated purchase requisition. Use this BAdI for processing enhancements before sending the message to SAP ERP or SAP S/4HANA.	PRE_PROCESSING - Preprocess for document status update. POST_PROCESSING - Postprocess for document status update.

Implementing the BAdI to Customize Information for Aggregating Requisitions

Use this procedure to implement the BAdI to customize information for aggregating requisitions.

Context

To implement BAdI to customize information for aggregating requisitions, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Business Add-Ins(BAdIs)** > **Aggregate Requisition**.
4. Click **IMG-Activity** for **BAdI for Aggregate Requisition**.

   The **BAdI Implementations** screen appears.

5. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.

Transaction	BAdI	Description	Method
ERP-initiated Purchase Requisition	`ARBCIG_BATCH_DELETE_REQ`	The BAdI is used to customize values while deleting the individual requisitions and consolidating them into a single purchase requisition.	PREPROCESSING - Process the values before deletion of requisition. POSTPROCESSING - Process the values after deletion of requisition.

Demand Aggregation for Purchase Requisitions

A demand aggregation for purchase requisitions combines multiple purchase requisitions into a single requisition. For example, if there are multiple requisitions for similar goods from a vendor, they can be consolidated into a single requisition.

To enable demand aggregation using SAP Integration Suite, managed gateway, configure the **Aggregate Requisition** option in the Interface Setup Program. For more information, see General Settings for SAP Ariba Procurement Solutions [page 47].

SAP Integration Suite, managed gateway supports demand aggregation of purchase requisitions created using Material Requirement Planning. When a demand aggregation request is submitted in SAP Ariba Procurement solutions, it deletes the individual purchase requisitions created using Material Requirement Planning and a consolidated purchase requisition is created.

> **Note**
>
> In case a purchase requisition is created using Material Requirement Planning while the demand aggregation is processing, the buyer has to delete the new requisition.

Work Order-Based Requisitions

For any prerequisites and limitations of the transaction, read Transactions for SAP Ariba Procurement solutions in SAP Integration Suite, Managed Gateway Overview Guide.

Sending Work Order-Based Requisitions [page 457]

Sending Work Order-Based Requisitions

Use this procedure to send work order-based requisitions.

Context

You can send work order-based requisitions using the program used to send purchase requisitions created in SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. If you want to send only the work order-based requisitions, enable the **Work Order Requisition** option. If the option is disabled, the program will send all the purchase requisitions that are initiated from SAP ERP or SAP S/4HANA.

Prerequisites

- Configure ERP-initiated purchase requisition. For more information, see ERP-Initiated Purchase Requisition in SAP Integration Suite, Managed Gateway Overview Guide.

Procedure

1. Run the transaction code `ARBCIG_BUYER_PR_EXP`.

   The **Requisition Export to Procurement Solutions** screen appears.
2. Enter the following details:

Field	Description
Display Data	Select this option if you want to perform a test run of sending work order-based requisition information from SAP ERP to SAP Ariba Procurement solutions.
Variant	The unique variant name for the SAP Ariba Procurement solutions in SAP ERP for purchase requisition records. For example, **VSAP**
Partition	The unique name of your site for the SAP Ariba Procurement solutions in SAP ERP for purchase requisition records. For example, **PSAP**
Batch Size	This option is visible only when the **Display Data** option is not selected. Enter the number of records to export.
Comments	Select this option to include header and item comments in the export. It is not selected by default.
Work Order Requisition	Select this option to include only the work order-based requisitions in the export. If it is not selected, the program

Field	Description
	will send all the purchase requisitions from SAP ERP to SAP Ariba Procurement solutions.
Full Load	Select this option to export all the purchase requisition records.
Incremental Load	Select this option to export a set of records between a date range or all the records since the last export.
Resend	Select this option to resend a specific set of purchase requisition records. Provide the purchase requisition number or the range of numbers to resend.

3. Click **Execute**.

Purchase Order

For any prerequisites and limitations of the transaction, read Transactions for SAP Ariba Procurement solutions in SAP Integration Suite, Managed Gateway Overview Guide.

Maintaining Parameter for Purchase Order Attachment [page 458]

Maintaining Parameter for Holding Purchase Order Creation [page 459]

Creating and Defining Message Output Control for Purchase Order Header Status [page 460]

Maintaining Parameter for Purchase Order Header Status [page 463]

Configuring the Event to Extract the Status of Closed Purchase Orders [page 464]

Configuring the Field Restrictions on the Export of the Status of Closed Purchase Orders [page 465]

Creating and Activating Event Type Linkage Settings for Closed Purchase Orders [page 466]

Configuring the Program to Export the Status of Closed Purchase Orders [page 467]

Scheduling the Job to Export the Status of Closed Purchase Orders [page 469]

Data Records of the Status of Closed Purchase Orders to Be Exported to SAP Ariba Procurement Solutions Determination [page 469]

Maintaining Parameter for Purchase Order Attachment

Use this procedure to maintain parameter for purchase order attachment.

Context

Maintain the required parameter for purchase order attachment.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Purchase Order** > **Maintain Parameters** .
4. Click **IMG-Activity** for **PO Attachment**.

   The **Parameters - Attachment send to AN** page appears.
5. Maintain the following parameter:

Parameter name	Description	Supported values
ARBCIG_ATTACHMENT_SEND_TO_AN	Enable or disable sending SAP Ariba Procurement solutions purchase order attachements to SAP Business Network.	• **Variable Name**: ARBCIG_ATTACHMENT_SEND_TO_AN • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: Provide a variant for SAP Ariba Procurement solutions. • **Partition**: Provide a partition for SAP Ariba Procurement solutions. • **Low**: Set this value to 'X' to enable sending purchase order attachments from SAP Ariba Procurement solutions to SAP Business Network or leave it blank to keep it disabled.

Maintaining Parameter for Holding Purchase Order Creation

Use this procedure to maintain parameter for holding purchase order creation.

Context

(Optional) Maintain the parameter to wait for a certain period of time before purchase order creation. If create and change purchase orders for the same purchase requisition are triggered simultaneously, it can result in a locking issue.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Purchase Order** > **Maintain Parameters**.
4. Click **IMG-Activity** for **Hold PO Create**.

   The **Parameters - SAP Ariba PO Hold** page appears.
5. Maintain the following parameter:

Parameter name	Description	Supported values
TRANSACTION_HOLD_TIME_IN_SEC	Applicable for SAP Ariba Procurement solutions and SAP Ariba strategic sourcing solutions.	• **Variable Name**: TRANSACTION_HOLD_TIME_IN_SEC • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Low**: Example - value in seconds.

Creating and Defining Message Output Control for Purchase Order Header Status

Use this procedure to create and define message output control for purchase order header status.

Context

Using message output control, you can control the output or processing of messages linked to the purchase order header status. The purchase order header status indicates where the purchase order is in its life cycle or the processes performed on the purchase order. It displays the status such as Open, Partially Delivered, Delivery Completed, Closed, or Rejected.

To define the message output control for purchase order header status, perform the following steps:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Purchase Order** > **Header Status**
4. Click **IMG-Activity** for **Create and Define Message Output Control for Purchase Order Header Status**.

   The **Conditions for Output Control** screen appears.
5. Select `EF` and click **Output Types**.

   The **Display View "Output Types": Overview** screen appears.
6. Click **Change**.

   The **Change View "Output Types": Overview** screen appears.
7. Click **New Entries** and maintain **Output Type** as `ARB1` and enter **`<name>`**.
8. Maintain the following information on the **General data** tab:
   - **Access sequence**: `ARB1`
   - **Access to conditions**: Check the checkbox.
   - **Multiple issuing**: Check the checkbox.
   - For **Change output**, enter the following:
     - **Program**: `ARBCIG_PO_HEADER_STATUS`
     - **FORM routine**: `SEND_POHEADER_STATUS`
9. Maintain the following information on the **Default values** tab:
   - **Dispatch time**: `Send immediately (when saving the application)`
   - **Transmission Medium**: `Special function`
   - **Partner Function**: `LS`
10. Click **Save**.
11. Provide the **Transport Request** number if the application prompts for it.
12. Return to **Change View "Output Types": Overview** screen and select `ARB1`.
13. Double-click **Processing routines**.

    The **Change View "Processing routine": Overview** screen appears.
14. In the **Processing routines** section, create an entry as follows:
    - **Medium**: Special Function
    - **Program**: `ARBCIG_PO_HEADER_STATUS`
    - **FORM routine**: `SEND_POHEADER_STATUS`

15. Click **Save**.
16. Provide the **Transport Request** number if the application prompts for it.
17. Return to **Conditions for Output Control** screen.
18. Select `MR` and click **Procedures**.
19. Select `MR0002` and double-click **Control**.
20. Click **New Entries** and enter the following:
    - **Step**: For example, **`10`**
    - **Counter**: For example, **`0`**
    - **CTyp**: **`ARB1`**
    - **Requirement**: Enter if required. For example, **`903`**
21. Click **Save**.
22. Provide the Transport Request number if the application prompts for it.
23. Return to **Conditions for Output Control** screen.
24. Select `MR` and click **Condition Records**.

    The **Output Types** screen appears.
25. Select `ARB1` and click **Condition records**.

    The **Key Combination** dialog box appears.
26. Maintain the required key combination.
27. Click **Execute**.
28. Return to **Conditions for Output Control** screen.
29. Select `ME` from the list of applications and repeat steps 5 to 17.
30. Select `ME` and click **Procedures**.
31. Select `ME0001` and double-click **Control**.
32. Click **New Entries** and enter the following:
    - **Step**: For example, **`10`**
    - **Counter**: For example, **`10`**
    - **CTyp**: **`ARB1`**
    - **Requirement**: Enter if required. For example, **`171`**
33. Click **Save**.
34. Provide the Transport Request number if the application prompts for it.
35. Return to **Conditions for Output Control** screen.
36. Select `ME` from the list of application and repeat steps 24 to 28.

Maintaining Parameter for Purchase Order Header Status

Use this procedure to maintain parameter for purchase order header status.

Context

Maintain the required parameters for purchase order header status.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Purchase Order** > **Header Status**.
4. Click **IMG-Activity** for **Maintain Parameter for Purchase Order Header Status**.

   The **Parameters - Purchase Order Header Status** page appears.
5. Maintain the following parameter:

Parameter name	Description	Supported values
POH_ENABLED	Enable or disable the Ariba provided enhancements for purchase order header. If this parameter is not enabled, you cannot implement the ARBCIG_PO_HEADER_STATUS.	• **Variable Name**: POH_ENABLED • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: Provide a variant for SAP Ariba Procurement solutions. • **Partition**: Provide a partition for SAP Ariba Procurement solutions. • **Low**: Set this value to 'X' to enable purchase order header status or leave it blank to keep it disabled.

Configuring the Event to Extract the Status of Closed Purchase Orders

Use this procedure to configure the event to extract the status of closed purchase orders.

Context

Configure the event to extract the status to export of the closed purchase orders. For an overview about the integration to export the status of closed purchase orders from SAP ERP to SAP Ariba Procurement solutions, see Status of Closed Purchase Orders in SAP Integration Suite, Managed Gateway Overview Guide.

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **General Settings**.
4. Click **IMG-Activity** for **Configure Ariba Event for Transaction Data**.

   The **Ariba Incremental Extract Event Configuration** screen appears.
5. Select **Purchase Order Closure**.
6. Click **Execute**.

   The **Display logs** screen appears with the details of the extract event.

> **Note**
>
> You can also see the details using the transaction code **SLG1** with the **ARBCIG_UTILITY** object and the **CONFIG** subobject.

Configuring the Field Restrictions on the Export of the Status of Closed Purchase Orders

Use this procedure to configure the field restrictions on the export of the status of closed purchase orders.

Prerequisites

- Configure the event to extract the status of closed purchase orders [page 464].

Context

You must configure the field restrictions manually in the `SWEC` table to trigger the workflows when the change documents are created. The change documents are created when the configured field is changed. For an overview about the integration to export the status of closed purchase orders from SAP ERP to SAP Ariba Procurement solutions, see Status of Closed Purchase Orders in SAP Integration Suite, Managed Gateway Overview Guide.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **General Settings**.
4. Click **IMG-Activity** for **Configure Ariba Buyer Transaction Data Incremental Field Restrictions**.

   The **Ariba Field Restrictions** screen appears.
5. Select a data extract object.

Incremental Export	Object	Object Type	Event (Change)	Event (Create)	Event (Delete)
PURCHASEORDERCLOSE	EINKBELEG	ARBCIG2012	CHANGED		

> **Note**
>
> Make a note of the object type, event, and the action type (create, change, or delete) for the selected object.

6. Click **Execute**.

   The **Ariba Field Restrictions** screen appears with the details of the configured restrictions.
7. Press Ctrl+C to copy the content of the page. Note that the content is already selected.
8. Run the transaction code `SWEC`.

   The **Change View "Events for Change Document": Overview** screen appears.
9. Locate the object with the same object type, event, and action type.

Change Doc Object	Object Category	Business Object Type	Event	On Create	On Change	On Delete
EINKBELEG	BOR Object Type	ARBCIG2012	CHANGED		X	

10. Select event line in change mode.
11. Double-click **Field Restrictions** folder in the left pane.

    The **Change Condition: "Field restriction for EINKBELEG** screen appears.
12. Click **Condition Editor**.
13. If the direct text entry mode is not configured for your user interface, perform the following steps:
    - Click **Utilities** > **Settings**.
    - On the **Condition Editor: Personal Settings** page, select **Direct text entry (traditional mode)**.
    - Save the configuration.
14. Click **New rows** to include the content for field restriction.

    > ⓘ Note
    >
    > Ensure that the number of rows you add is equal to the number of rows of content that you copied in Step 7.
15. Click column for **Expression 1** and paste the copied content for field restrictions.
16. Click **Back** and enter the **Transport Request** number.
17. Click **Save**.

Creating and Activating Event Type Linkage Settings for Closed Purchase Orders

Use this procedure to create and activate event type linkage settings for closed purchase orders.

Prerequisites

- Configure the event to extract the status of closed purchase orders [page 464].
- Configure the field restrictions in the `SWEC` table [page 465].

Context

Create and maintain the CHANGED event type to send the status of closed purchase orders from SAP ERP. For an overview about the integration to export the status of closed purchase orders from SAP ERP to SAP Ariba Procurement solutions, see Status of Closed Purchase Orders in SAP Integration Suite, Managed Gateway Overview Guide.

Procedure

1. Run the transaction code `SWE2`.

   The **Change View Event Type Linkages: Overview** screen appears.
2. Click **New Entries** and enter the following information:

Object Category	Object Type	Event	Receiver Type	Receiver Call	Class Name	Interface Name	Method Name
BOR Object Type	ARBCIG2012	CHANGED	ARBCIG_BUYER_CLOSE_PO	Method	CL_ARBCIG_EVENT_OBD_P2P_POCLO	`BI_EVENT_HANDLER_STATIC`	`ON_EVENT`

3. Choose **`Using tRFC`** for **Event delivery**.
4. Check the **Linkage Activated** checkbox for all the entries.
5. Click **Save**.

Configuring the Program to Export the Status of Closed Purchase Orders

Use this procedure to configure the program to export the status of closed purchase orders.

Prerequisites

- Configure the event to extract the status of closed purchase orders [page 464].
- Configure the field restrictions in the `SWEC` table [page 465].
- Configure the event type linkages [page 466].

Context

The program to export the status of closed purchase orders allows buyers to fetch the status of a group of purchase orders that fulfill a specified criteria and export them to SAP Ariba Procurement solutions. Enter information for the following fields to specify a criteria for the export:

- **Based on Date** - Select this option to export the status of purchase orders that were closed within a specified date range. When this option is selected, the **Select Date/Time Range** section appears, where you can provide the start and end dates of closed purchase orders for which the status should be exported. The **Select Date/Time Range** section has the following fields:
  - **From Date/Time**: Specify the start date and time from which the closed purchase orders should be considered for export.
  - **Until Date/Time**: Specify the end date and time until which the closed purchase orders should be considered for export.
- **Based on Purchase Orders** - Select this option to export the status of purchase orders that were closed within a specified range of purchase order numbers. When this option is selected, the **Select Purchase Orders and Line Items** section appears, where you can provide the range of purchase orders for which the status of closed purchase orders should be exported. The **Select Purchase Orders and Line Items** section has the following fields:
  - **Purchase Order Numbers**: Specify the range of purchase orders.
  - **Line Item Numbers**: Specify the range of line item numbers within the defined purchase order number range.
- **Batch Size** - Specify the number of records to be exported each time the export program is executed.

For an overview about the integration to export the status of closed purchase orders from SAP ERP to SAP Ariba Procurement solutions, see Status of Closed Purchase Orders in the SAP Integration Suite, Managed Gateway Overview Guide.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Purchase Order**.
4. Click **IMG-Activity** for **Export the Status of Closed Purchase Orders**.

   The **Export the Status of Closed Purchase Orders** page appears.
5. Do one of the following by configuring the fields as explained in the preceding section:
   - Select **Based on Date** and specify the following:
     - **From Date/Time**, **Until Date/Time**, and **Batch Size**.
   - Select **Based on Purchase Orders** and specify the following:

- **Purchase Order Numbers**, **Line Item Numbers**, and **Batch Size**.

6. Click **Execute**.

Scheduling the Job to Export the Status of Closed Purchase Orders

Use this procedure to schedule the job to export the status of closed purchase orders.

Prerequisites

- Configure the event to extract the status of closed purchase orders [page 464].
- Configure the field restrictions in the `SWEC` table [page 465].
- Configure the event type linkages [page 466].
- Configure the program to export the status of closed purchase orders [page 467].

Context

To periodically export the status of closed purchase orders to SAP Ariba Procurement solutions, you must schedule the `ARBCIG_BUY_POCLOSE` program. The program fetches information from the `ARBCIG_POHISTORY` table for the dates ranging from the last run date until the current date of execution.

For an overview about the integration to export the status of closed purchase orders from SAP ERP to SAP Ariba Procurement solutions, see Status of Closed Purchase Orders in the SAP Integration Suite, Managed Gateway Overview Guide.

Procedure

1. Run the transaction code `SM36`.

   The **Define Background Job** screen appears.
2. In the **Program** field, enter `ARBCIG_BUY_POCLOSE`.
3. Schedule the program.

Data Records of the Status of Closed Purchase Orders to Be Exported to SAP Ariba Procurement Solutions Determination

You can configure the timestamp to determine the data records of the status of closed purchase orders to be exported to SAP Ariba Procurement solutions. SAP ERP exports the data records that are created

after the date and time specified in the timestamp to SAP Ariba Procurement solutions. After you send the status of closed purchase orders based on the timestamp, the timestamp is updated to the time you ran the `ARBCIG_BUY_POCLOSE` program.

If you do not configure a timestamp, SAP ERP sends all the available data records of the status of closed purchase orders to SAP Ariba Procurement solutions. For more information, see Determining the Data Records to Be Exported to SAP Ariba Procurement Solutions [page 51].

Advance Payment

For any prerequisites and limitations of the transaction, read Transactions for SAP Ariba Procurement solutions in SAP Integration Suite, Managed Gateway Overview Guide.

Prerequisites

Ensure that you have activated the `LOG_MMFI_P2P` business function on SAP ERP or SAP S/4HANA before you use the advance payment transaction.

Maintaining Parameters for Advance Payment [page 470]

Maintaining Parameters for Advance Payment

Use this procedure to maintain the required parameters for advance payment.

Context

To maintain parameters for advance payment, perform the following steps:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Advance Payment**.

4. Click **IMG-Activity** for **Maintain Parameters for Advance Payment**.

   The **Parameters - Advance Payment** screen appears.

5. Maintain the following parameter:

Parameter name	Description	Supported values
ADV_PAY_ENABLED	Enable or disable the Ariba provided enhancements for advance payment. If this parameter is not enabled, the implementation of the `ARBCIG_ADV_PAYMENT_IMPL` BAdI will not be executed.	• **Variable Name**: ADV_PAY_ENABLED • **Field Name**: Leave it blank. • **Number**: 0000 • **Variant**: Provide a variant for SAP Ariba Procurement solutions. • **Partition**: Provide a partition for SAP Ariba Procurement solutions. • **Low**: Set this value to 'X' to enable advance payment or leave it blank to keep it disabled.
BAPI_ADV_PAY_CREATE_BUS_ACT	Enter the the business transaction value that you want to pass to the DOCUMENTHEADER-BUS_ACT as BAPI parameter. This parameter value is important for advance payment transaction to be successful. If SAP Note: 2387374 is not implemented then enter the value as **RFBU**. If the SAP Note: 2387374 is implemented then enter the value as **RFST**. **Note** If Advance Payment Webservice Integration fails after upgrading to EHP8, implement SAPNote: 2387374.	• **Variable Name**: BAPI_ADV_PAY_CREATE_BUS_ACT • **Field Name**: Leave it blank. • **Number**: 0000 • **Variant**: Provide a variant for SAP Ariba Procurement solutions. • **Partition**: Provide a partition for SAP Ariba Procurement solutions. • **Low**: **RFST** or **RFBU**.

Advance Payment Remittance

For any prerequisites and limitations of the transaction, read Transactions for SAP Ariba Procurement solutions in SAP Integration Suite, Managed Gateway Overview Guide.

Configuring Outbound Proxies for Advance Payment Remittance [page 472]

Determining the Advance Payment Remittance Data Records to Be Exported to SAP Ariba Procurement Solutions [page 473]

Configuring Advance Payment Remittance Transaction [page 474]

Scheduling Job to Export Advance Payment Remittance Records [page 475]

Implementing BAdI for Advance Payment Remittance [page 476]

Configuring Outbound Proxies for Advance Payment Remittance

Use this procedure to configure outbound proxies for advance payment remittance.

Context

Use this program to enable the flow of advance payment remittance from SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. This is a one-time activity, but you can rerun the program any time there is an update relevant to outbound web services.

You can view the status of the report using the Tcode `SLG1`, using the object `ARBCIG_INTERFACE` and subobject `IF_LOGS`

The Logical Port setting is overwritten each time you run the interface settings for outbound web services.

Perform the following steps to configure the connections to send messages:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **General Settings** > **Setup the Interface**
4. Click **IMG-Activity** for **Configure the connections to send messages**.

   The **Interface Setup Program for Ariba Procurement** screen appears.
5. Perform the following steps in the **Interface Setup for Web Service** section:
   a. Select a data center. For example, **`EU Data Center for Europe`**.
   b. Select one of the following to indicate if the connection is to a production or test instance of Managed Gateway for Spend&Network:
      - **Connect to SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer&Network Production Instance**
      - **Connect to SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer&Network Test Instance**
   c. Select one of the following types of authentication methods:
      - Select **User ID / Password** and enter authentication information to connect to Managed Gateway for Spend&Network.
      - Select **X.509 SSL Client Certificate** and choose the **Certificate Name** (ARIBA, for example).

d. The following fields appear if the **ENABLE_MIDDLEWARE** parameter is enabled in **Global Settings**. For more information about enabling this parameter, see Enabling Integration Through Middleware in SAP Integration Suite, Managed Gateway Installation Guide. Enter the following values if you are using a middleware:
   - **URL Host**: Provide the middleware host URL.
   - **Path Prefix**: Provide the following path prefix for the interface that you are configuring:

Interface	Prefix
Proxy	`/cxf/receiveAddonSOAPForAriba`

e. If you use a proxy server, enter the following:
   - Enter the HTTP proxy name in the **Name of Proxy Host** field. For example, proxy.abc.com.
   - Enter the port name in the **Port Number of Proxy Host** field. For example, 8080.
   - Enter the user name for the proxy server in the **User Name of Proxy Server** field. For example, <user name> registered for the proxy server.
   - Enter the password for the registered user name in the **Proxy User Password** field. For example, <password> for the registered user on the proxy server.

6. Choose from the following options to set up web services for the outbound documents:
   - **Outbound transaction messages sent to SAP Integration Suite, managed gateway**
     - **Advance Payment Remittance**
7. Click **Execute**.

Determining the Advance Payment Remittance Data Records to Be Exported to SAP Ariba Procurement Solutions

Use this procedure to determine the advance payment remittance data records to be exported to SAP Ariba Procurement Solutions.

Context

You can configure the timestamp to determine the data records to be exported to SAP Ariba Procurement solutions. SAP ERP exports the data records that are created after the date and time specified in the timestamp to SAP Ariba Procurement solutions. After you send the records based on the timestamp, the timestamp is updated to the time you ran the export program.

If you do not configure a timestamp, SAP ERP sends all the available data records to SAP Ariba Procurement solutions.

Procedure

1. On the *SAP Easy Access* page, run the transaction code SPRO.

   The *Customizing: Execute Project* screen appears.
2. Click **SAP Reference IMG**.

   The *Display IMG* page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **General Settings**
4. Click **IMG-Activity** for **Maintain Timestamp**.

   The *Change View "Timestamp": Overview* page appears.
5. On the application toolbar, click **New Entries**.
6. In the *New Entries: Overview of Added Entries* table, enter the following details and click **Save**.

Field	Description
Extract	Choose the extract to export: • **Advance Payment Remittance export**- To export the advance payment remittance records. .
DateTime stamp	Enter the timestamp for the payment remittance extract in the **YYYYMMDDhhmmss** format. For example, 20180711090906.

Configuring Advance Payment Remittance Transaction

Use this procedure to configure advance payment remittance transaction.

Context

Maintain the business transaction event (BTE) to save advance payment remittance records in ARBCIG_APR_REMIT table.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.

2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Advance Payment Remittance**.
4. Click **IMG-Activity** for **Configure Advance Payment Remittance Transaction**.

   The **SAP Business Framework: Business Transaction Events** screen appears.

5. Click **Settings** > **Products** > **...of a customer**.
6. Click **New Entries**.

   The **New Entries: Overview of Added Entries** screen appears.

7. Enter a new product name and description.

   > ⓘ Note
   >
   > The function module product name must start with **ARBCIG**.

8. Check **Active** and click **Save**.
9. Navigate back to **SAP Business Framework: Business Transaction Events** screen.
10. Click **Settings** > **Process Modules** > **...of a customer**.
11. Click **New Entries**.

    The **New Entries: Overview of Added Entries** screen appears.

12. Enter the following information:
    - Process: 00005010
      Function Module: ARBCIG_BTE_00005010
      Product: Specify the product name created in Step 4.
13. Save the changes.

Scheduling Job to Export Advance Payment Remittance Records

Use this procedure to schedule job to export advance payment remittance records.

Context

This program is used to export advance payment remittance information to SAP Ariba Procurement solution. The new advance payment remittance records are fetched from the `ARBCIG_APR_REMIT` table. The last run date and last run time is updated in the `ARBCIG_REMDATETM` table based on `ADV_RM_EXP` event. Use the `ARBCIG_ADV_PYMNT` BAdI to add filters, before sending.

Procedure

1. Run the transaction code `SM36`.

   The **Define Background Job** screen appears.
2. In the **Program** field, enter `ARBCIG_ADVPAY_REMIT_EXPORT`.
3. Schedule the program.

Implementing BAdI for Advance Payment Remittance

Use this procedure to implement BAdI for advance payment remittance.

Context

Implement the `ARBCIG_ADV_PYMNT` BAdI and use the `PUBLISHREMITTANCE` method to enhance or modify the data of advance payment records. Perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The Customizing: Execute Project screen appears.
2. Click SAP Reference IMG.

   The Display IMG screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Business Add-Ins(BAdIs)** > **Advance Payment and Advance Payment Remittance**
4. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI: `ARBCIG_ADV_PYMNT`
   - Method: `PUBLISHREMITTANCE`

Goods Receipt

For any prerequisites and limitations of the transaction, read Transactions for SAP Ariba Procurement solutions in SAP Integration Suite, Managed Gateway Overview Guide.

Maintaining Parameters for Goods Receipt [page 477]

Maintaining Parameters for Goods Receipt

Use this procedure to maintain the required parameters to export goods receipt from SAP ERP system.

Context

To maintain parameters for goods receipt, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Goods Receipt**
4. Click **IMG-Activity** for **Maintain Parameters for Goods Receipt Create**.

   The **Parameters - Receipt Export Request** screen appears.
5. Maintain the following parameter:

Parameter name	Description	Supported values
GOODS_RECEIPTS_CREATE	Configure time-out settings (in seconds) for the goods receipt export task to prevent it from being locked in the SAP ERP system.	• **Variable Name**: GOODS_RECEIPTS_CREATE • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: Provide a variant for SAP Ariba Procurement solutions. • **Partition**: Provide a partition for SAP Ariba Procurement solutions. • **Low**: 5

Parameter name	Description	Supported values
ENABLE_GR_ITERATION	Configure the number of iterations for the goods receipt export task to prevent goods receipts from being locked in the SAP ERP system.	• **Variable Name**: ENABLE_GR_ITERATION • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: Provide a variant for SAP Ariba Procurement solutions. • **Partition**: Provide a partition for SAP Ariba Procurement solutions. • **Low**: 10

Export of Goods Receipts

Defining Condition Records and Output Types to Export Goods Receipts [page 478]

Maintaining Parameters to Export Goods Receipts [page 480]

Maintaining Movement Types [page 481]

Configuring User Profile Parameters to Activate a Collective Slip for Goods Receipts [page 482]

Maintaining Printer Default Values for Returns and Corrections in Receipts [page 483]

Defining Condition Records and Output Types to Export Goods Receipts

Use this procedure to define condition records and output types to export good receipts.

Context

Maintain the condition records and output types to export goods receipts from the SAP ERP system.

In this customizing activity, you can define how documents that have been created or changed in SAP ERP or SAP S/4HANA are transferred to SAP Ariba Procurement solutions.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.

2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Export Goods Receipt** > .

4. Click **IMG-Activity** for **Create and Define Message Output Control to Export Goods Receipt**.

   The **Conditions for Output Control** page appears.

5. Select **ME** as the application type and click **Output Types**.

   The **Display View "Output Types": Overview** page appears.

6. Click **Change**.

   The **Change View "Output Types": Overview** page appears.

7. Click **New Entries**

   The **New Entries: Details of Added Entries** page appears.

8. Enter **ARB1** for **Output Type** and enter a name.

9. On the **General Data** tab, maintain the following information:

   - **Access sequence**: Enter **ARB1**
   - **Access in conditions**: Select the checkbox.
   - **Multiple issuing**: Select the checkbox.
   - In the **Change output** section maintain the following information:
     - **Program**: Enter **ARBCIG_PO_HEADER_STATUS**
     - **Form routine**: Enter **SEND_POHEADER_STATUS**

10. Click the **Default Values** tab and maintain the following values:

    - **Dispatch time:** 4 Send immediately (when saving the application)
    - **Transmission Medium:** 8 Special function
    - **Partner function:** LS

11. Click **Save** and provide the transport request number if the application prompts for it.

12. Return to the **Change View "Output Types": Overview** page.

13. Select **ARB1** from **Output Types** and double-click **Processing routines**

    The **Change View "Processing routines": Details** page appears.

14. In the **Processing routines** section, enter the following values:

    - **Program**: ARBCIG_PO_HEADER_STATUS
    - **Form Routine**: SEND_POHEADER_STATUS

15. Click **Save** and provide the transport request number if the application prompts for it.

16. Return to the **Conditions for Output Control** page.

17. Select **ME** as the application type and click **Procedures**.

    The **Change View "Procedures": Overview** page appears.

18. Select **ME0001** and double-click **Control**.

    The **Change View "Control": Overview** page appears.

19. Click **New Entries** and enter the following information:
    - **Step**: For example, `10`.
    - **Counter**: For example, `0`
    - **Condition Type**: `ARB1`
    - **Requirement**: Enter if required. For example, `171`.
20. Click **Save** and provide the transport request number if the application prompts for it.
21. Return to the **Conditions for Output Control** page.
22. Select **ME** and click **Condition Records**.

    The **Conditions for Output Control** page appears.
23. Select `ARB1` and click **Condition records**.

    The **Key Combination** popup appears.
24. Maintain the required key combination.
25. Click **Execute**.
26. Return to **Conditions for Output Control** page.

Maintaining Parameters to Export Goods Receipts

Use this procedure to maintain parameters to export goods receipts.

Context

Maintain the required parameters to export goods receipts directly to SAP Ariba Procurement solutions.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Export Goods Receipt** >.
4. Click **IMG-Activity** for **Maintain Parameters to Export Goods Receipt**.

   The **Parameters - Export Goods Receipt** page appears.
5. Maintain the following parameter:

Parameter name	Description	Supported values
EXPORT_GR_ENABLED	Enable or disable the Ariba provided enhancements to export goods receipt. If this parameter is not enabled, you cannot export goods receipt to SAP Ariba Procurement solutions.	• **Variable Name**: EXPORT_GR_ENABLED • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: Provide a variant for SAP Ariba Procurement solutions. • **Partition**: Provide a partition for SAP Ariba Procurement solutions. • **Low**: Set this value to **X** to enable export of receipt to SAP Ariba Procurement solutions or leave it blank to keep it disabled.
EXPORT_SHIPNOTICE_ID	Enable or disable SAP Ariba provided enhancements to export ship notice IDs from goods receipts to SAP Ariba Buying and Invoicing. Maintaining this parameter is mandatory.	• **Variable Name**: EXPORT_SHIPNOTICE_ID • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: Provides a variant for SAP Ariba Buying and Invoicing. • **Partition**: Provide a partition for SAP Ariba Buying and Invoicing. • **Low**: Set this value to **X** to enable export of receipt to SAP Ariba Buying and Invoicing or leave it blank to keep it disabled.

Maintaining Movement Types

Use this procedure to maintain movement types.

Context

Buyers must maintain the list of all the custom and standard movement types that they want to use with goods receipts.

If the buyer does not maintain this list of movement types, only the standard `101` and its reversal `102` movement types would be available.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.

2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Export Goods Receipt** .
4. Click **IMG-Activity** for **Maintain Movement Types**.

   The **Change View "Ariba Movement Type": Overview** page appears.
5. Maintain the following parameters:
   - **Movement Type**: Specify a key for the type of goods movement. For example, 101.
   - **Accept**: Specify the movement type indicator. Check to indicate `Accept` or uncheck to indicate `Reject`.
6. Click **Save**.

Configuring User Profile Parameters to Activate a Collective Slip for Goods Receipts

Use this procedure to configure user profile parameters to activate a collective slip for goods receipts.

Context

Configure the users who can activate a collective slip for goods receipts.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Export Goods Receipt** .
4. Click **IMG-Activity** for **Configure User Profile Parameters to Activate Collective Slip after Receipt**.

   The **Maintain User Profile** page appears.
5. In the **Parameters** tab, maintain the following values:
   - **Set/Get parameter ID**: `NDR`
   - **Parameter value**: `X`

- **Short Description**: Print via output control in MM-Inventory management.

6. Save the changes.

Maintaining Printer Default Values for Returns and Corrections in Receipts

Use this procedure to maintain printer default values for returns and corrections in receipts.

Context

Configure the properties to print receipts.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.

2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Export Goods Receipt** .

4. Click **IMG-Activity** for **Maintain Printer Default Values for Returns and Corrections in Receipts**.

   The **Change View "Print Parameters": Overview** page appears.

5. Maintain the following parameters:
   - **Condition Type**: Specify the output type such as goods receipt.
   - **Plant**: Specify the plant name where the goods are received.
   - **Storage Location**: Specify where the SAP spool system should store data.
   - **Output Device**: Select an output device in the SAP System.
   - **Spool request name**: Three-part name of a spool request. The name is determined automatically by the spool system, but can be entered by the user or the program generating the request.
   - **Print immediately**: Switch for printing immediately. Printing is immediate if this switch is set. Otherwise the output is held in the spool.
   - **Release after output**: Switch for deleting a print job. If the switch is set, the spool job is deleted immediately after printing. Otherwise it remains in the spool file after printing and can be printed again if required.

Service Entry Sheet

For any prerequisites and limitations of the transaction, read Transactions for SAP Ariba Procurement solutions in SAP Integration Suite, Managed Gateway Overview Guide.

To customize the data on the service sheet in SAP ERP or SAP S/4 HANA before deleting it and/or to customize the action after deleting the service sheet in SAP Integration Suite, managed gateway, you must implement the `ARBCIG_SES_DELETE` BAdI. For more information, see Implementing the BAdI to Customize the Service Sheet Cancelation Process [page 364]

Maintaining Parameters for Service Entry Sheet [page 484]

Defining Message Output Control for Service Sheet Response [page 486]

Maintaining Parameters for Service Sheet Response [page 488]

Implementing Enhancements for Revoking Previously Accepted Service Sheets [page 489]

Maintaining Event Linkages to Generate Service Sheet Responses [page 490]

Maintaining Parameters for Service Entry Sheet

Use this procedure to maintain the required parameters to create a service entry sheet.

Context

To maintain parameters for service entry sheet, perform the following steps:

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Service Entry Sheet** > **Create**
4. Click **IMG-Activity** for **Maintain Parameters for Service Sheet**.

   The **Parameters - Service Sheet** screen appears.
5. Maintain the following parameter:

Parameter name	Description	Supported values
ENTRYSHEET_CREATE	If the purchase order at SAP ERP is in the edit mode, the system would not allow to create a service entry sheet. Configure the duration (in seconds) for which the system would attempt to create a service entry when the purchase order at ERP is in edit mode. Creating service entry sheets for a small number of SES documents referring to the same service order depends on the ENTRYSHEET_CREATE parameter configuration and size of the SES document. If there are a huge number of transactions, only the first few are considered to create service entry sheets and the rest might fail.	• **Variable Name**: ENTRYSHEET_CREATE • **Field Name**: TIMEOUT • **Number**: 0000 • **Low**: Example: 4
ENABLE_SES_ITERATION	Configure the ENABLE_SES_ITERATION parameter to specify the number of times a loop should perform for checking the lock. This configuration is only for SAP Ariba Buying and Invoicing to avoid failure of the transaction document due to a locking issue while processing multiple service sheets for the same purchase order service type items.	• **Variable Name**: ENABLE_SES_ITERATION • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: XX (to enable) or leave it blank (to disable). By default, it is enabled and set to 3.

Defining Message Output Control for Service Sheet Response

Use this procedure to define how the documents that were created or changed in SAP ERP or SAP S/4HANA are transferred..

Context

To define message output control for service sheet response, perform the following steps:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Service Entry Sheet** > **Approve/Reject**
4. Click **IMG-Activity** for **Define Message Output Control for Service Sheet Response**.

   The **Condition for Output Control** screen appears.
5. Select application `ES` and click **Output types**.

   The **Display View "Output Types": Overview** screen appears.
6. Select `NEU`, for example, and click **Change**.

   The **Change View "Output Types": Overview** screen appears.
7. Click **NEU**, for example, and click **Change**.

   The **Change View "Output Types": Overview** screen appears.
8. Double-click **NEU**, for example.

   The **Change View "Output Types": Details** screen appears.
9. On the **General Data** tab, for **Access sequence** choose `0001 DocType/PurchaseOrg/Vendor`.
10. On the **Default values** tab, create an entry as follows:
    - **Dispatch time**: Send immediately (when saving the application)
    - **Transmission Medium**: EDI
    - **Partner Function**: LS
11. Click **Save** and return to the **Display View "Output Types": Overview** screen.
12. Provide the **Transport Request** number if the application prompts for it.
13. Select `NEU`, for example, and then double-click **Processing routines**.

    The **Display View "Processing routines": Overview** screen appears.

14. In the **Processing routines** section,create an entry as follows:
    - **Transmission Medium**: 8 (Special Function)
    - **Program**: ARBCIG_ENTRYSHEET_UPDATE
    - **FORM routine**: SEND_ENTRYSHEET_RESPONSE
15. Click **Save**.
16. Select `NEU`, for example, and then double-click **Partner Functions**.

    The **Display View "Partner functions": Overview** screen appears.
17. In the **Partner Functions** section, create an entry as follows:
    - **Medium**: 8 (Special Function)
    - **Function**: LS (Logical System)
18. Click **Save**.
19. Select application `ES` and click **Condition records**.

    The **Output Types** popup appears.
20. Select `NEU`, for example, and then click **Condition records**.

    The **Key Combination** popup appears.
21. Maintain the required key combination for **Purchasing Output Determination: Document Type**:
22. Click **Enter**.

    The **Change Entry of Srvc Pr (NEU) Selection** screen appears.
23. Click **Execute**.

    The **Change Condition Records (Entry of Srvc Prfrmd): Fast Change** screen appears.
24. Enter following information:
    - **Document Type**: NB, for example.
    - **Partner Function**: LS.
    - **Partner Number**: ARIBACIG, for example
    - **Medium**: 8 (Special Function)
    - **Date/Time**: 4 (when the application is saved)
25. Click **Save**.

Maintaining Parameters for Service Sheet Response

Use this procedure to maintain the required parameters for service sheet response.

Context

To maintain parameters for service sheet response, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Service Entry Sheet** > **Approve/Reject**
4. Click **IMG-Activity** for **Maintain Parameters for Service Sheet Response**.

   The **Parameters - Service Sheet Response** screen appears.
5. Maintain the following parameter:

Parameter name	Description	Supported values
SES_RESPONSE_BUY_ENABLED	Enable or disable the Ariba provided enhancements for response for revoke scenario. If this parameter is not enabled, you cannot implement the ARBCIG_SESR_UPDATE BAdI.	• **Variable Name**: SES_RESPONSE_BUY_ENABLED • **Field Name**: Leave it blank. • **Number**: 0000 • **Variant**: Provide a variant for SAP Ariba Procurement solutions. • **Partition**: Provide a partition for SAP Ariba Procurement solutions. • **Low**: Set this value to 'X' to enable the response for revoke scenario or leave it blank to keep it disabled.

Implementing Enhancements for Revoking Previously Accepted Service Sheets

Use this procedure to implement enhancements for revoking previously accepted service sheets.

Context

Starting SAP Integration Suite, managed gateway, Release 2011 (Q4 2020), you can create and activate the `SES_RESPONSE_AN` event type linkage to generate service entry sheet responses after you revoke or delete service entry sheets.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Service Entry Sheet** > **Approve/Reject**
4. Click **IMG-Activity** for **Implement Enhancements for Revoking Previously Accepted Service Sheets**.

   The **Function Builder: Initial Screen** appears.
5. Enter **`MS_UPDATE_SERVICE_ENTRY`** in the **Function Module** field and click **Display**.
6. Click **Enhance** in the application toolbar.
7. Click **Edit** > **Enhancement Operations** > **Show Implicit Enhancement Options**.

   The **Function Builder: Change Enhancements MS_UPDATE_SERVICE_ENTRY** screen appears
8. Right-click the last line in the **Function Module** and select **Enhancement Operation** > **Create Implementation**.

   Choose Enhancement Mode screen appears.
9. Click **Code** to display **Select or Create Enhancement Implementation**.
10. Click **Create Enhancement Implementation**.
11. Enter a name and description for the enhancement and press Enter.

    The **Package** screen appears.
12. Specify Z or Y package, press **Enter**, and save the package to a transport request.
13. Paste the following code:

```
Include ARBCIG_SES_REVOKE_ENHAN IF FOUND
```

14. Activate the Enhancement.

Maintaining Event Linkages to Generate Service Sheet Responses

Use this procedure to maintain event linkages to generate service sheet responses.

Context

Applies to the buyers using the SAP Integration Suite, managed gateway, Release 2011 (Q4 2020) or later versions.

Starting SAP Integration Suite, managed gateway, Release 2011 (Q4 2020), you can create and activate the `SES_RESPONSE_AN` event type linkage to generate service entry sheet responses after you revoke or delete service entry sheets.

> **Note**
>
> SAP Ariba recommends that you use the event configuration in place of implicit enhancement. If you have already implemented the implicit enhancement in the function module, `MS_UPDATE_SERVICE_ENTRY` to generate service sheet response, you must remove that implementation before you perform this task.
>
> If you activate the BAdI implementation, de-implement the implicit enhancement for the service sheet response. Conversely, if the implicit enhancement is implemented, deactivate the BAdI implementation. Use only one implementation to avoid duplicate payloads.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** page appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Service Entry Sheet** > **Approve/Reject**.
4. Click **IMG-Activity** for **Maintain Event Linkages to Generate Service Sheet Responses**.

   The **Change View "Event Type Linkages": Overview** page appears.
5. Click **New Entries**.

   The **New Entries: Details of Added Entries** page appears.
6. Enter the following information and click **Save**:
   - Object Category: BOR Object Type

- Object Type: BUS2091
- Event: CREATED
- Receiver Type: SES_RESPONSE_AN
- Receiver Call: Method
- Class Name: CL_ARBCIG_TRIGGER_SES_RESPONSE
- Interface Name: BI_EVENT_HANDLER_STATIC
- Method Name: ON_EVENT
- Event delivery: Using tRFC(Default)
- Check the **Linkage Activated** checkbox
- Behavior Upon Error Feedback: System defaults
- Receiver Status: No errors

7. Configure the create and change events for the ERP-initiated service entry sheets. For more information, see Configuring the Create and Change Events for the ERP-Initiated Service Entry Sheets [page 283].

ERP-Initiated Service Entry Sheets

For any prerequisites and limitations of the transaction, read Transactions for SAP Ariba Procurement solutions in SAP Integration Suite, Managed Gateway Overview Guide.

Maintaining Parameters for ERP-Initiated Service Entry Sheets [page 491]

Activating the Event Type Linkages to Send ERP-Initiated Service Entry Sheets [page 493]

Implementing Enhancements to Update the XBLNR Field with the ERP-Initiated Service Entry Sheet Number [page 494]

Implementing the BAdI for ERP-Initiated Service Entry Sheets [page 495]

Maintaining Parameters for ERP-Initiated Service Entry Sheets

Use this procedure to maintain parameters for ERP-initiated service entry sheets.

Context

Configure the parameters required to define the service entry sheet number and to enable the enhancements provided by SAP Ariba for ERP-initiated service entry sheets.

Procedure

1. Run the transaction code **SPRO**.

The **Customizing: Execute Project** screen appears.

2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **ERP-initiated Service Entry Sheet** >.

4. Click IMG activity for **Maintain Parameters for ERP-initiated Service Entry Sheet**.

   The **Parameters - ERP-initiated Service Entry Sheet** screen appears.

5. Maintain the following parameters:

Table 32: Parameters for ERP-Initiated Service Sheets

Parameter Name	Description	Supported Values
BUY_ERP_SES_USE_EXTERNAL_ID	Configure the parameter to use the external reference number provided by the supplier as the service entry sheet number. The default value for the parameter is blank so it uses the ERP-generated number as the service entry sheet number.	• **Variable Name**: BUY_ERP_SES_USE_EXTERNAL_ID • **Field Name**: Leave it blank. • **Number**: 0000 • **Variant**: Provide the variant of SAP Ariba Procurement solutions. • **Partition**: Provide the partition of SAP Ariba Procurement solutions. • **Low**: Enter **X** to apply the external reference number as the service entry sheet number. Leave the value blank to apply the ERP-generated service entry sheet number.
BUY_ERP_SES_ENABLED	Configure the parameter to enable or disable the enhancements provided by SAP Ariba for ERP-initiated service entry sheets.	• **Variable Name**: BUY_ERP_SES_ENABLED • **Field Name**: Leave it blank. • **Number**: 0000 • **Variant**: Provide the variant of SAP Ariba Procurement solutions. • **Partition**: Provide the partition of SAP Ariba Procurement solutions. • **Low**: Enter **X** to enable or leave it blank (to disable).

6. Click **Save**.

Activating the Event Type Linkages to Send ERP-Initiated Service Entry Sheets

Use this procedure to activate the event type linkages to send ERP-initiated service entry sheets.

Context

Activate the event type linkage required to send service entry sheets to SAP Ariba Procurement solutions.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **ERP-initiated Service Entry Sheet** >.
4. Click IMG activity for **Maintain Event Type Linkages for ERP-initiated Service Sheet**.

   The **Change View "Event Type Linkages": Overview** appears.
5. Click **New Entries**.

   The **New Entries: Details of Added Entries** page appears.
6. Maintain the following entries:
   - **Object Category**: `BO BOR Object Type`
   - **Object Type**: `BUS2091`
   - **Event**: `CREATED`
   - **Receiver Type**: `CREATED`

   Linkage Setting (Event Receiver)
   - **Receiver Call**: `Function Module`
   - **Receiver Function Module**: `ARBCIG_EXT_EVENT_ERP_SES`
   - **Check Function Module**: `ARBCIG_EXT_EVENT_ERP_SES_CHECK`
   - **Receiver Type Function Module**: Leave it blank
   - **Destination of Receiver**: Leave it blank
   - **Event delivery**: Using tRFC (Default)
   - **Behavior Upon Error Feedback**: 0 System defaults
   - **Receiver Status**: 0 No errors
7. Check the **Linkage Activated** checkbox.

8. Save the changes.

Implementing Enhancements to Update the XBLNR Field with the ERP-Initiated Service Entry Sheet Number

Use this procedure to implement enhancements to update the XBLNR field with the ERP-initiated service entry sheet number.

Context

The `XBLNR` field in SAP ERP or SAP S/4HANA stores the reference document number, which is the service entry sheet number. However, the `XBLNR` field is not populated when a service entry sheet is created in ERP. When an invoice is generated in SAP Business Network and sent to ERP, the service entry sheet number is validated against the value in the `XBLNR` field. If the `XBLNR` field is empty, the invoice is rejected in ERP.

As an ERP buyer administrator, you must implement an implicit enhancement to ensure that the `XBLNR` field in ERP is updated with the service entry sheet number. You must include the `ARBCIG_ERPSES_XBLNR_UPDATE` function as an implicit enhancement at the start of `FORM SAVE` of the `LMLSRF0F` standard Include.

> **Note**
>
> The `XBLNR` field is a free text field in ERP. After implementing this implicit enhancement, any value that you enter in this field is overwritten with the service entry sheet number.

> **Note**
>
> You do not need to configure this implicit enhancement if you are on SAP S/4HANA 2020 FPS0 or later versions.
>
> You can apply the SAP Note 2991803 and SAP Note 3011936 to use the standard BAdIs in SAP S/4HANA.

Prerequisites:

- Enable the `BUY_ERP_SES_ENABLED` parameter. For more information about enabling the parameter, see Maintaining Parameters for ERP-Initiated Service Entry Sheets [page 491].

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to ▶ **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **ERP-initiated Service Entry Sheet** ▼.
4. Click IMG activity for **Implement implicit enhancement to update external reference**.

   The **ABAP Editor: Initial Screen** appears.
5. Enter `LMLSRF0F` in the **Program** text box and click **Display**.
6. Click **Enhance** in the application toolbar.
7. Click ▶ **Edit** > **Enhancement Operations** > **Show Implicit Enhancement Options** ▼ to display a line after `FORM SAVE`.
8. Right-click on the line, choose ▶ **Enhancement Implementation** > **Create** ▼.
9. Click **Code** on the **Choose Type of Enhancement** popup to display **Select or Create Enhancement Implementation**.
10. Click **Create Enhancement Implementation**.
11. Enter a name and description for the enhancement and click **Enter**.
12. In the package popup, specify your Z or Y package, click **Enter**, and save the package to a transport request.
13. Paste the following code: `Include ARBCIG_ERPSES_XBLNR_UPDATE IF FOUND`.
14. Activate the enhancement and save it.

Implementing the BAdI for ERP-Initiated Service Entry Sheets

Use this procedure to implement the BAdI for ERP-initiated service entry sheets.

Context

The `ARBCIG_BUY_ERP_SES_CREATE` BAdI allows buyers to customize the information or perform activities before or after sending service entry sheet. Use the following methods to enhance the BAdI.

Following table lists the methods that you can implement:

Method Name	Description
`PRE_PROCESSING_OUTBOUND`	To modify service entry sheet information before sending it to SAP Ariba Procurement solutions.
`POST_PROCESSING_OUTBOUND`	To process activities after sending the service entry sheet to SAP Ariba Procurement solutions.

To implement BAdI for invoice status export, perform the following steps:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click SAP Reference IMG.

   The Display IMG screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Business Add-Ins(BAdIs)** > **ERP-initiated Service Entry Sheet** >.
4. Click IMG for **BAdIs for ERP Service Entry Sheet**.
5. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: `ARBCIG_BUY_ERP_SES_CREATE`

Invoice

For any prerequisites and limitations of the transaction, read Transactions for SAP Ariba Procurement solutions in SAP Integration Suite, Managed Gateway Overview Guide.

Maintaining Parameters for Invoice [page 496]

Mapping the Tax Jurisdiction Codes Between ERP and External Tax Engine [page 498]

Maintaining Parameters for Invoice

Use this procedure to maintain the required parameters for invoice.

Context

To maintain parameters for invoice, perform the following steps:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.

2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Invoice**.

4. Click **IMG-Activity** for **Maintain Parameters for Invoice**.

   The **Parameters - Payment Export Request** screen appears.

5. Maintain the following parameter:

Parameter name	Description	Supported values
INVOICE_PUSH	Configure time-out settings (in seconds) for the invoice export task to prevent invoices from being locked in the SAP ERP system.	• **Variable Name**: INVOICE_PUSH • **Field Name**: Leave it blank. • **Number**: 0000 • **Variant**: Provide a variant for SAP Ariba Procurement solutions. • **Partition**: Provide a partition for SAP Ariba Procurement solutions. • **Low**: **5**
ASSET_TR_TYP_FI_NONPO	Configure the asset transaction type if you use asset accounting assignment while posting FI-based non-PO Invoice.	• **Variable Name**: ASSET_TR_TYP_FI_NONPO • **Field Name**: Leave it blank. • **Number**: 0000 • **Variant**: Provide a variant for SAP Ariba Procurement solutions. • **Partition**: Provide a partition for SAP Ariba Procurement solutions. • **Low**: **120**
ETE_TAX_SPLIT_ENABLE	Configure this parameter to enable tax split at the line level for external tax engines.	• **Variable Name**: ETE_TAX_SPLIT_ENABLE • **Field Name**: Leave it blank. • **Number**: 0000 • **Variant**: Provide a variant for SAP Ariba Procurement solutions. • **Partition**: Provide a partition for SAP Ariba Procurement solutions. • **Low**: **X** (to enable) or leave it blank (to disable).

Parameter name	Description	Supported values
ENABLE_INV_ITERATION	Configure the number iterations for the invoice export task to prevent invoices from being locked in the SAP ERP system.	• **Variable Name**:ENABLE_INV_ITERATION • **Field Name**: Leave it blank. • **Number**: 0000 • **Variant**: The unique variant name for SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**:The unique site name for SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Low**: 10

Mapping the Tax Jurisdiction Codes Between ERP and External Tax Engine

Use this procedure to map the tax jurisdiction codes between ERP and external tax engine.

Context

If the tax jurisdictions are defined for your location, use the `ARBCIG_MAP_TAXJCD` table to maintain one-to-one relationship between the external tax jurisdiction code and the SAP tax jurisdiction code.

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Invoice**.
4. Click **IMG-Activity** for **Maintain tax jurisdiction code relation between ERP and external tax engine**.

   The **Change View "Tax jurisdiction mapping"** screen appears.
5. Click **New Entries**.

6. Enter the following information:

Jurisdiction code	Description
Country key	The location key where the jurisdiction is applicable.
External tax jurisdiction code	The jurisdiction code in the external tax engine.
SAP tax jurisdiction	The corresponding jurisdiction code maintained in SAP ERP.

7. Click **Save**.

Sending the Status of Canceled Invoices from the ERP System

For any prerequisites and limitations of the transaction, read Transactions for SAP Ariba Procurement solutions in SAP Integration Suite, Managed Gateway Overview Guide.

Maintaining Parameters to Export Status of Canceled Invoices [page 499]

Configuring the Transaction Event for Invoice Status Export [page 500]

Maintaining Date and Time to Export the Status of Parked Invoices [page 501]

Scheduling Job to Export Status of Invoices [page 502]

Exporting the Status of Canceled Invoices [page 503]

Implementing the BAdI for Canceled Invoice Status Export [page 504]

Maintaining Parameters to Export Status of Canceled Invoices

Use this procedure to maintain parameters to export status of canceled invoices.

Context

To maintain the parameters required to export the status of canceled invoices, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Export Invoice Status** >.
4. Click **IMG-Activity** for **Maintain Parameters to Export Invoice Status**.

   The **Parameters - Export Invoice Status** screen appears.
5. Maintain the following parameters:

   Table 33: Parameters to Export Invoice Status

Parameter name	Description	Supported values
INVOICE_STATUS_P2P_ENABLED	Enable or disable sending the status of canceled invoices to SAP Ariba Procurement solutions.	• **Variable Name**:INVOICE_STATUS_P2P_ENABLED • **Field Name**: Leave it empty. • **Number**: 0000 • **Variant**: Provide the variant of SAP Ariba Procurement solutions. • **Partition**: Provide the partition of SAP Ariba Procurement solutions. • **Low**: X (to enable) or leave it blank (to disable).
PARKED_INVOICE_REASONCODE	Maintain the reason code for the deleted parked logistic invoice.	• **Variable Name**:PARKED_INVOICE_REASONCODE • **Field Name**: Leave it empty. • **Number**: 0000 • **Variant**: Provide the variant of SAP Ariba Procurement solutions. • **Partition**: Provide the partition of SAP Ariba Procurement solutions. • **Low**: For example, `01`.

Configuring the Transaction Event for Invoice Status Export

Use this procedure to configure the transaction event for invoice status export.

Context

To create a business transaction event (BTE) to export the status of canceled invoices, perform the following steps:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Export Invoice Status**.
4. Click **IMG-Activity** for **Configure Transaction Event for Invoice Status Export**.

   The **SAP Business Framework: Business Transaction Events** screen appears.
5. Click **Settings** > **Products** > **...of a customer**.
6. Click **New Entries**.

   The **New Entries: Overview of Added Entries** screen appears.
7. Enter a new product name and description. The product name must start with `ARBCIG`. For example, `ARBCIG_BT`
8. Check **Active**.
9. Go back to **SAP Business Framework: Business Transaction Events** screen and click **Settings** > **Process Modules** > **...of a customer**.
10. Click **New Entries**.

    The **New Entries: Overview of Added Entries** screen appears.
11. Enter the following information:
    - **Process**: `00005010`
    - **Function Module**: `ARBCIG_BTE_00005010` or `ARBCIG_BTE_INVOICESTATUSUPDATE`
    - **Product**: Specify the product name created in Step 7.
12. Save the changes.

Maintaining Date and Time to Export the Status of Parked Invoices

Use this procedure to maintain date and time to export the status of parked invoices.

Context

You can configure the timestamp to determine the parked invoice records to be exported to SAP Ariba Procurement solutions. SAP ERP or SAP S/4HANA exports the status of parked invoices that are created after the date and time specified in the timestamp. After you send the records based on the timestamp, the timestamp is updated to the time when you ran the export program.

If you do not configure a timestamp, SAP ERP or SAP S/4HANA sends all the available data records to your SAP Ariba solution.

Prerequisite

- Select the **Include Parked Invoice** checkbox in the `ARBCIG_INV_STATUS_EXPORT` program.

Procedure

1. On the *SAP Easy Access* page, run the transaction code `SPRO`.

   The *Customizing: Execute Project* screen appears.
2. Click **SAP Reference IMG**.

   The *Display IMG* page appears.
3. Navigate to **Integration with Other mySAP.com Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **General Settings** >
4. Click **IMG-Activity** for **Maintain Timestamp**.

   The *Change View "Timestamp": Overview* page appears.
5. On the application toolbar, click **New Entries**.
6. In the *New Entries: Overview of Added Entries* table, enter the following details and click **Save**.

Field	Description
Extract	Choose the extract to export: • **Send Invoice Status**- To export the status of parked invoice. .
DateTime stamp	Enter the timestamp for the parked invoice status extract in the **`YYYYMMDDhhmmss`** format. For example, 20180711090906.

Scheduling Job to Export Status of Invoices

Use this procedure to schedule job to export status of invoices.

Context

Schedule the `ARBCIG_INV_STATUS_EXPORT` report to send the status of a canceled invoice in SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. The report determines the invoices that have been canceled since the last time the report was run and triggers the invoice status update messages.

To schedule the job to export the status of invoices, perform the following steps:

Procedure

1. Run the transaction code `SM36`.

   The **Define Background Job** screen appears.
2. In the **Program** field, enter **`ARBCIG_INV_STATUS_EXPORT`**.
3. Schedule the program.

Exporting the Status of Canceled Invoices

Use this procedure to export the status of canceled invoices.

Context

The `ARBCIG_INV_STATUS_EXPORT` program is used to export the status of canceled invoices to SAP Ariba Procurement solutions. The program allows buyers to fetch the status of a group of invoices that fulfill a specified criteria and export them to your SAP Ariba solution. Enter information for the following optional fields to specify a criteria for the export:

- **Company Code**
- **Supplier Location**
- **Fiscal Year**

If you want to send the status of parked invoices, you can select the **Include Parked Invoice** checkbox.

Procedure

1. Run the transaction code `SE38`.

   The **ABAP Editor: Initial Screen** appears.
2. Run the `ARBCIG_INV_STATUS_EXPORT` program.

   The *Export Rejected Invoice Status to SAP Ariba On-demand Application* page appears.
3. Enter the following details:

Field	Description
Display Data	Select this checkbox if you want to view the records before exporting it.

Field	Description
Variant	Provide the variant of SAP Ariba Procurement solutions.
Partition	Provide the partition of SAP Ariba Procurement solutions.
Include Parked Invoice	Select this checkbox to include the parked invoices in the export. If this option is selected, you can additionally configure the timestamp to determine the records to export.
Company Code	Specify the company codes for which you want to export the invoice status.
Supplier Location	Specify the supplier locations for which you want to export the invoice status.
Fiscal Year	Specify the fiscal years for which you want to export the invoice status.
Resend Invoice Status	Select this checkbox to resend the status of canceled invoices. Selecting this checkbox gives you the following additional filters: • **Invoice Document** • **Company Code** • **Fiscal year**

4. Click **Execute**.

Implementing the BAdI for Canceled Invoice Status Export

Use this procedure to implement the BAdI for canceled invoice status export.

Context

The `ARBCIG_INV_STATUS_EXPORT` BAdI allows buyers to customize the status message or activities before or after export. Use the following methods to enhance the BAdI.

Following table lists the methods that you can implement:

Method Name	Description
`PUBLISH_BEFORE_SEND`	To modify invoice status export message before sending to SAP Ariba Procurement solutions.
`PUBLISH_AFTER_SEND`	To process activities after sending the invoice status export message to SAP Ariba Procurement solutions.

To implement BAdI for invoice status export, perform the following steps:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click SAP Reference IMG.

   The Display IMG screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Business Add-Ins(BAdIs)** > **Invoice Status Export** > .
4. Click IMG for **BAdI for Invoice Status Export**.
5. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: `ARBCIG_INV_STATUS_EXPORT`

Non-PO (FI) Invoice

Maintaining the Parameters for Non-PO (FI) Invoices [page 506]

Setting Up Cross-Reference for Non-PO (FI) Invoices [page 507]

Implementing the Customer Exit for Non-PO (FI) Invoices [page 508]

Implementing the BAdI for Non-PO (FI) Invoices [page 509]

SAP Integration Suite, Managed Gateway Migration [page 510]

Maintaining the Parameters for Non-PO (FI) Invoices

Use this procedure to maintain parameters for non-PO (FI) invoices.

Context

You can maintain the parameters that are required to process non-PO (FI) invoices. To maintain the parameters for the invoice, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Invoice** .
4. Click **IMG-Activity** for **Maintain Parameters for Invoice**.

   The **Parameters - Payment Export Request** screen appears.
5. Maintain the following parameters:

Parameter name	Description	Supported values
ASSET_TR_TYP_FI_NONPO	Configure the asset transaction type if you want to use the asset accounting assignment while posting FI-based non-PO Invoice.The value of the transaction type is what you have added in the A074 table.	• **Variable Name**: ASSET_TR_TYP_FI_NONPO • **Field Name**: Leave it blank. • **Number**: 0000 • **Variant**: Provide a variant for SAP Ariba Procurement solutions. • **Partition**: Provide a partition for SAP Ariba Procurement solutions. • **Low**: For example, **120**

Parameter name	Description	Supported values
P2P_INVOICE_ENABLED	Enable or disable the SAP Ariba provided enhancements for invoice.	• **Variable Name**: P2P_INVOICE_ENABLED • **Field Name**: Leave it blank. • **Number**: 0000 • **Variant**: Provide a variant for SAP Ariba Procurement solutions. • **Partition**: Provide a partition for SAP Ariba Procurement solutions. • **Low**: **X** (to enable) or leave it blank (to disable).
NONPO_INV_PRECISION	Applicable for SAP Ariba Procurement solutions. Set this parameter to X to use the amount with precision values from the non-PO invoices in SAP Ariba Procurement solutions, instead of calculating the amount in SAP ERP or SAP S/4HANA.	• **Variable Name**: NONPO_INV_PRECISION • **Field Name**: Leave it blank. • **Number**: 0000 • **Variant**: Provide a variant for SAP Ariba Procurement solutions. • **Partition**: Provide a partition for SAP Ariba Procurement solutions. • **Low**: **X** (to enable) or leave it blank (to disable).

Setting Up Cross-Reference for Non-PO (FI) Invoices

Use this procedure to set up cross-reference for non-PO (FI) invoices.

Context

You must configure the document type for non-PO (FI) invoices on SAP Integration Suite, managed gateway and enable the indicator to post non-PO (FI) invoices. The document type and the related parameters are added by the administrator. You can define the values for both test and production environments.

Procedure

1. Sign in to the SAP Integration Suite, managed gateway.
2. Click **Edit** for the project you want to add the cross-reference parameters.
3. Navigate to the **Cross Reference** step.

   The **Cross Reference Configuration** screen appears.
4. Choose a document type from the **Select Document Type** dropdown on the **Parameter** tab and click **Add**.

The added document type appears in the list. You can edit the parameter values for the document type or remove it from the list.

5. Click the **Edit** icon to add or modify the parameter values.
6. To download the cXML payload and attach it to an invoice (when the invoice is created in the SAP ERP system), select the **Add cXML Payload As Attachment** checkbox.
7. Enter values for the parameters in the **TEST Environment** and **PROD Environment**.
8. Click **Save**.
9. Repeat steps 4 to 6 for each document type that you want to configure.
10. Click **Next** when values for all the document types are configured.

    Table 34: Available Parameters for Non-PO (FI) Invoice in SAP Integration Suite, managed gateway Configuration:

Document flow	Document type	Parameters	Description	Sample values
Invoice	PaymentExportRequest	SAP FI Document Type	SAP non-PO (FI) invoice document type	KR

11. Check the **SAP Non PO FI Post Indicator** option to post non-PO (FI) invoices.

Implementing the Customer Exit for Non-PO (FI) Invoices

Use this procedure to implement the customer exit for non-PO (FI) invoices.

Context

To support withholding tax on invoices, configure and enable the withholding tax at the vendor level in SAP ERP. The tax code configuration must be in sync between the SAP Ariba Procurement solutions and SAP ERP.

Prerequisite

- Enable the **P2P_INVOICE_ENABLED** parameter. For information about enabling parameters for non-PO (FI) invoice, see Maintaining the Parameters for Non-PO (FI) Invoices [page 506].

The steps are in accordance with the following SAP Notes:

SAP Note 556311 - BAPI in the extended withholding tax (for withholding tax)

SAP Note 487722 - Using EXTENSION1 for accounting BAPIs (for withholding tax and asset account assignment)

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.

2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Invoice**.
4. Click **IMG-Activity** for **Implement a Customer Exit for FI Non PO Invoice**.

   The **Project Management of SAP Enhancements** screen appears.
5. Enter a name. For example, **ZCBAPI01** and then click **Create**.
6. Enter a description in the **Short Text** field.
7. Click **Enhancement assignments**.

   The **Create Object Directory Entry** screen appears.
8. Save the changes.

   The **SAP Enhancements in Enhancement Project page <object name>** appears.
9. Enter **ACBAPI01** in the **Enhancement** text box and then press **Enter**.
10. Click **Components**.
11. Double-click **EXIT_SAPLACC4_001**.
12. Double-click **INCLUDE ZXACCU15** in the **Function Builder: Display EXIT_SAPLACC4_001** page.
13. Enter the following include:

    ```
    INCLUDE ARBCIG_FILL_MISS_FI_NONPO IF FOUND
    ```
14. Save the entries.
15. Click the **Activate** button to go back to the **CMOD** screen.
16. Activate the customer exit in the **CMOD** screen.

Implementing the BAdI for Non-PO (FI) Invoices

Use this procedure to implement the BAdI for non-PO (FI) invoices.

Context

To implement BAdI for supported transactions in SAP Ariba Procurement solutions, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.

2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Business Add-Ins(BAdIs)** > **Payment Export Request** > .

4. Click **IMG-Activity** for **BAdI for Payment Export Request**.

   The **BAdI Implementations** screen appears.

5. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.

Transaction	BAdI	Description	Method
Payment Export Request	`ARBCIG_INVCREATE`	To enhance or modify data for non-PO (FI) invoice. Use this BAdI for processing enhancements before sending the message to SAP Ariba Procurement solutions.	FI_INVOICE_CREATE

SAP Integration Suite, Managed Gateway Migration

If you are migrating from SAP Business Network adapter for SAP NetWeaver to SAP Integration Suite, managed gateway, follow the intructions provided in SAP Integration Suite, Managed Gateway Migration Guide to migrate the non-PO (FI) invoice transactions. Perform the following steps:

- Migrate data including the invoice history from the /ARBA/ database table to the ARBCIG_ database table. For more information, see About Migrating Data from the /ARBA/ Database Table to the ARBCIG_ Database Table in SAP Integration Suite, Managed Gateway Migration Guide.
- Migrate the configurations of the non-PO (FI) invoice transaction. For more information, see About Migrating the Configurations of Transactions from SAP ERP to SAP Integration Suite, Managed Gateway in SAP Integration Suite, Managed Gateway Migration Guide.
- Migrate the SAP Ariba BAdIs. For more information, see About Migrating SAP Ariba BAdIs to SAP Integration Suite, Managed Gateway in SAP Integration Suite, Managed Gateway Migration Guide.
- Remove the existing customer exit created to support withholding tax and asset posting on invoices and implement the new customer exit to support integration of non-PO (FI) invoices from SAP Ariba Procurement solutions to SAP ERP using SAP Integration Suite, managed gateway. To implement the new customer exit, see Implementing the Customer Exit for Non-PO (FI) Invoices [page 508].

Payment Remittance

For any prerequisites and limitations of the transaction, read Transactions for SAP Ariba Procurement solutions in SAP Integration Suite, Managed Gateway Overview Guide.

Enablement of the Web Service to Send Payment Remittance Records to SAP Ariba Procurement Solutions

To enable the web service for sending payment remittance records to SAP Ariba Procurement solutions, check **Remittance Export** on the **Interface Setup Program for Ariba Procurement** page. For more information, refer to the **How to configure the connections to send messages** section under General Settings for SAP Ariba Procurement Solutions [page 47].

Implementing BAdI for Modifying the Payment Remittance Data Before Exporting It to SAP Ariba Procurement Solutions [page 511]

Implementing BAdI for Modifying the Payment Remittance Data Before Exporting It to SAP Ariba Procurement Solutions

Use this procedure to implement BAdI for modifying the payment remittance data before exporting it toSAP Ariba Procurement solutions.

Context

You can implement the BAdI `ARBCIG_REMIT_EXPORT` to modify the payment remittance information before you send it to SAP Ariba Procurement solutions.

Procedure

1. On the *SAP Easy Access* screen, run the transaction code `SPRO`.

   The *Customizing: Execute Project* screen appears.
2. Click **SAP Reference IMG**.

   The *Display IMG* screen appears.
3. Navigate to **Integration with Other mySAP.com Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Business Add-ins (BAdIs)** > **Remittance Data Modification** .

   To know more information about the BAdI `ARBCIG_REMIT_EXPORT`, click the **IMG activity documentation** node of **BAdI for Remittance Data Modification**.
4. Implement the standard BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: `ARBCIG_REMIT_EXPORT`

The following table lists the method that you can implement:

Field	Description
PUBLISH_REMITTANCE_EXPORT	To modify the payment remittance data.

Schedule of the Job for Sending Payment Remittance Data to SAP Ariba Procurement Solutions

To send payment remittance records from SAP ERP to SAP Ariba Procurement solutions, you can schedule the job using the ARBCIG_REMITTANCE_EXPORT program.

Exporting Payment Remittance Data Records to SAP Ariba Procurement Solutions [page 512]

Fetching Payments Until Specified Date and Time for Remittance Export [page 514]

Exporting Payment Remittance Data Records to SAP Ariba Procurement Solutions

Use this procedure to export payment remittance data records to SAP Ariba Procurement solutions.

Context

To send payment remittance information from SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions, run the following report:

Procedure

1. On the *SAP Easy Access* screen, run the transaction code SE38.

   The *ABAP Editor: Initial Screen* appears.
2. In the **Program** field, enter ARBCIG_REMITTANCE_EXPORT and click **Execute**.

   The *Export Remittance Information to SAP Ariba On-demand Application* screen appears.
3. Enter the following details and click **Execute**:

Field	Description
Display Data	(Optional) Check and click **Execute** to display the XML document of the payment remittance extract.
Variant	The unique variant name for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA for remittance records. For example, **VSAP**
Partition	The unique name of your site for the SAP Ariba Procurement solutions in SAP ERP or SAP S/4HANA for remittance records. For example, **PSAP**
Payment Company Code	Enter or choose the company code of the organization making the payment. For example, **0001**
Account Number	Enter the account number of vendor to whom the payment has to be made.
Payment Method	Enter or choose the code for the method of payment. The code changes based on the country/region and the city from which the payment is made. For example, enter or choose **C** for the payment using check from the US.
Document Type	Enter or choose the code for the document type. For example, enter ZP for the documentation type Payment Posting.
Doc Type (zero dollar)	Specify the zero dollar document type in this field if the customers have created a payment for zero (0) USD. This may occur if the customers have created an invoice and a credit memo for the same invoice. Customers may have a specific document type with respect to these types of zero dollar payments, which they can enter here.
Send the Failed Remittance Records Again	Check to send the payment remittance records that failed to reach SAP Ariba Procurement solutions in the previous run. You must use the following filters to specify the remittance records that you want to send again.
Payment document	Enter the name of the payment document or specify the range of the payment documents that you want to send again to SAP Ariba Procurement solutions.
Company code	Enter or choose the company code of the organization

Field	Description
Fiscal year	Enter or choose the fiscal year of the payment.

Fetching Payments Until Specified Date and Time for Remittance Export

Use this procedure to fetch payments until specified date and time to manage data transfer when exporting large volume of remittance information.

Context

To manage the amount of data transferred when exporting large volume of remittance, you can set **upperLimitDate** in the selection screen of the remittance export program **ARBCIG_REMIT_EXPORT**. You also need to perform the following steps to fetch payments until specified date and time for remittance export:

Procedure

1. Run the transaction code SE38.

   The **ABAP Editor: Initial Screen** appears.
2. For **Program**, enter **`ARBCIG_REMIT_EXPORT`**.

   The **ABAP Editor: Display Report ARBCIG_REMIT_EXPORT** screen appears.
3. On the **Menu** bar, navigate to **Goto** > **Text Elements** > **Selection Texts**.

   The **ABAP Text Elements: Display Selection Text Language English** screen appears.
4. Change to **Edit** mode.
5. For **P_DATE** maintain **`Fetch payments until date time`**.
6. Save and activate.

Determination of Payment Remittance Data Records to Be Exported to SAP Ariba Procurement Solutions

You can configure the timestamp to determine the payment remittance data records to be exported to SAP Ariba Procurement solutions. SAP ERP exports the payment remittance data records that are created after the date and time specified in the timestamp to SAP Ariba Procurement solutions. After you send the payment remittance records based on the timestamp, the timestamp is updated to the time you ran the `ARBCIG_REMITTANCE_EXPORT` program.

If you do not configure a timestamp, SAP ERP sends all the available payment remittance data records to SAP Ariba Procurement solutions. For more information, see Determining the Data Records to Be Exported to SAP Ariba Procurement Solutions [page 51].

> **Note**
>
> This configuration task enables you to maintain data in the `ARBCIG_REMDATETM` table. To use this table in a new SAP system landscape, you must maintain the data manually in the new SAP system landscape.

Stock

Unrestricted Stock Inventory in SAP Ariba Procurement Solutions [page 515]

Reservation of Unrestricted Stock [page 526]

Unrestricted Stock Inventory in SAP Ariba Procurement Solutions

For any prerequisites and limitations of the transaction, read Transactions for SAP Ariba Procurement solutions in SAP Integration Suite, Managed Gateway Overview Guide.

Configuring Batch Size for Stock Query [page 516]

Setting Filters to Export Storage Location [page 517]

Maintaining Sequential Number of Storage Location Address for Stock Detail Export [page 518]

Storage Location Filtering in Catalog Master Data Export Program [page 519]

Implementing BAdI to Check Stock Inventory Details [page 525]

Configuring Batch Size for Stock Query

Use this procedure to configure batch size for stock query.

Context

Maintain the parameter to define the number of records to export in each batch when a query is made to update the stock details. To maintain the parameter to define the batch size, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Stock Availability Request**.
4. Click **IMG-Activity**for **Maintain Parameters for Stock Availability**.

   The **Parameters - Stock Check Request** screen appears.
5. Maintain the following parameters:

Parameter name	Description	Supported values
INVENTORY_BATCH_SIZE	Applicable for SAP Ariba Procurement solutions. Set the value for this field to define the number of records of the stock details to export in each batch.	• **Variable Name:** : INVENTORY_BATCH_SIZE • **Field Name**: Leave it blank • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Low**: Specify the number of records in each batch. The recommended maximum batch size is 50,000.

6. Click **Save**.

Setting Filters to Export Storage Location

Use this procedure to set filters to export storage location.

Context

Configure the `STORAGE_LOCATION_EXPORT` filter to include or exclude storage locations in the master data export. You can filter using the following conditions:

- Equality and inclusion: where **Option** is `EQ` and **Sign** is `I`.
- Ranges and exclusion: where **Option** is `BT` and **Sign** is `E`.
- Patterns and comparisons: where **Option** is `CP` and **Sign** is `I` or `E`.

To maintain filters for SAP Ariba Procurement solutions, perform the following steps:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **General Settings** > **Maintain Filters** > **Procurement**.
4. Click **IMG-Activity** for **Procurement**.

   The **Prefilters - Ariba Procurement Master Data** screen appears.
5. Maintain the following filters:

Filter name	Description	Supported values
STORAGE_LOCATION_EXPORT	Applicable for SAP Ariba Procurement solutions. This is an optional field. This parameter allows you to export the storage location details from the SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions. Configure a selection criteria to filter the details that need to be included in each master data export batch task for the storage locations.	• **Variable Name**: STORAGE_LOCATION_EXPORT • **Field Name**: Field name that indicates the storage location information in the `T001L` table. • **Type**: Enter S as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Sign**: Indicate whether to include or exclude the value specified in the filter. For example, I. • **Option**: Specify the condition for the filter. For example, EQ. • **Low**: Enter the filter value for the criterion you set for field. For example the Location ID, Plant ID, Storage Location Name, or Address. • **High**: Blank if the option is not BT. Enter the range of values between Low and High if the option is BT.

Maintaining Sequential Number of Storage Location Address for Stock Detail Export

Use this procedure to maintain sequential number of storage location address for stock detail export.

Context

A storage location can have multiple addresses which have sequential numbers starting from 1. In this activity, if you specify a sequential number of the storage location address, only the information pertaining to the specified address is exported to SAP Ariba Procurement solutions. If you do not specify a sequential number, the export program exports the information for storage location address with sequential number 1.

To maintain sequential number of storage location address for stock detail export, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **General Settings** > **Maintain Parameters** > **Procurement**.
4. Click **IMG-Activity**for **Procurement**.

   The **Parameters - Ariba Procurement Master Data** screen appears.
5. Maintain the following parameters:

Parameter name	Description	Supported values
SEQUENTIAL_ADDRESS_NUMBER	Applicable for SAP Ariba Procurement solutions. Specify a sequential number of the storage location address for which the master data must be exported.	• **Variable Name**: SEQUENTIAL_ADDRESS_NUMBER • **Field Name**: Leave it blank • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2. • **Low**: Sequential number of a storage location address. For example, 3. •

6. Click **Save**.

Storage Location Filtering in Catalog Master Data Export Program

You can configure filters for the ARBCIG_BUYER_CATALOG_EXPORT program to export data for only the specified storage locations.

Maintaining Parameter to Upload MRO Inventory Details [page 520]

Setting Storage Location Filter in Catalog Master Data Export Program [page 522]

Maintaining Parameter to Upload MRO Inventory Details

Use this procedure to maintain parameter to upload MRO inventory details.

Context

Maintain the parameter to include MRO inventory details in the catalog uploads from SAP ERP or SAP S/4HANA system. To include MRO inventory details in catalog upload request, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **General Settings** > **Maintain Parameters** > **Catalog Upload Request** .
4. Click **IMG-Activity**for **Catalog Upload Request**.

   The **Parameters - Catalog Upload Request** screen appears.
5. Maintain the following parameters:

Parameter name	Description	Supported values

ENABLE_MRO_INVENTORY	Applicable for SAP Ariba Procurement solutions. This is an optional field. Set the value for this field to extract the storage location. The storage location is used in the catalog CIF file. Enable this field if you want to filter the storage locations that are extracted. Enabling this field would allow buyers to set the storage location filter available in the Buyer Catalog Export Program. See Setting Storage Location Filter in Catalog Master Data Export Program [page 522]	• **Variable Name:** : ENABLE_MRO_INVENTORY
		• **Field Name**: Leave it blank
		• **Variant**: The unique variant name for the SAP Ariba Procurement solutions in SAP ERP. For example, VREALM_2.
		• **Partition**: The unique site name for the SAP Ariba Procurement solutions in SAP ERP. For example, PREALM_2.
		• **Low**: Specify X to include the following information in the catalog CIF file:
		  • Material Number
		  • Material Group
		  • Plant ID
		  • Storage Location
		  • Stock Indicator
		  Note
		  The value of Stock indicator would be TRUE in the CIF file if the stock is greater than zero. However, the behavior can be customized using a BAdI. For more information, see Implementing BAdI for Catalog Upload Request [page 123].
		Leave a blank value if you do not want to include storage location in the catalog CIF field.

6. Click **Save**.

Setting Storage Location Filter in Catalog Master Data Export Program

Use this procedure to set storage location filter in catalog master data export program.

Context

You can set the **Storage Location Filter** in the `ARBCIG_BUYER_CATALOG_EXPORT` program to export data for only the specified storage locations. Ensure that you have the necessary authorization to run the master data program.

Prerequisite

- Ensure that you have configured incremental extract event. For more information, see Configuring Ariba Incremental Extract Event [page 61].
- Ensure that you have selected **Catalog Upload Request** in interface setup to communicate with SAP Ariba Procurement solutions. For more information, see Configuring the Connections to Send Messages [page 48] for SAP Ariba Procurement solutions.
- Ensure that the `ENABLE_MRO_INVENTORY` parameter is enabled. For more information, see Maintaining Parameter to Upload MRO Inventory Details [page 520].
- Ensure that the sequential number of the storage location address for stock detail export is defined. For more information, see Maintaining Sequential Number of Storage Location Address for Stock Detail Export [page 518].

Procedure

1. Run the transaction code `SE38`.
2. Run the `ARBCIG_BUYER_CATALOG_EXPORT` program.

   The **Buyer Catalog Export** page appears.
3. Enter the following details:

Field Name	Description
The following are the header fields in the catalog CIF file.	
Catalog Subscription Name	The catalog subscription name is a unique identifier in SAP Ariba for the catalog. Ensure that you do not change the existing name for the catalog subscription while running the full or incremental load. All new versions of the catalog continue to have the same catalog subscription name. **Note** You must ensure that you use the existing catalog subscription name for each incremental load you run for an existing catalog.

Field Name	Description
	Required field.
Currency	The default currency for unit prices for the items in the catalog. Default value: USD Required field.
Charset	The encoding and charset to convert the data in the CIF file. For example, UTF-8. Required field and is case-sensitive.
Code Format	The default commodity code system. You must specify the UNSPSC format. Required field.
Comments	The comments for the catalog.
SupplierId_Domain	The domain for the supplierID. Ensure that you specify the **SupplierId_Domain** that you maintain for the supplier on the SAP Ariba Procurement solutions. Example: SUPPLIERID_DOMAIN:DUNS Required field.
United Nations Unit of Measure	Select this option to send the catalog in the UNUOM format. Required field.
Variant	Specify the unique variant name for SAP Ariba Procurement solutions in your SAP ERP system. For example, VREALM_2.
Partition	Specify the unique site name for SAP Ariba Procurement solutions in your SAP ERP system. For example, PREALM_2.
Catalog Filters	Contains the following filters: • Plant • Purchase Organization • Supplier • Purchase Info Category • Material Group • Material Type • Language
Storage Location Filter	This is an optional field. Check this option if you want to export information for only the specified set of storage locations as part of the catalog master data export to SAP Ariba Procurement solutions.

Field Name	Description
Product Hierarchy OR Classification Code as Commodity Code	Contains two options: • **Product Hierarchy**: This option allows you to download the commodity code maintained in the product hierarchy field present in the basic data view of the material master on the SAP ERP or SAP S/4HANA system. . • **Classification Code**: Choose this option if you want to use the commodity code maintained in Classification view for the full or incremental load. If you use this option, you must also specify additional parameters.
Load Option	Contains the following options: • **Full Load**: Allows you to extract all the Purchase Information records and Materials Master records. You can run the full load more than one time. • **Update Catalog subscription**: Choose this option only when you want to update an existing catalog subscription entirely using the full load. Ensure that you do not use this option the first time to create a new catalog subscription. • **Incremental Load**: Allows you to extract only the changed or updated records. You can optionally specify the date from that you require the records to be extracted from the SAP ERP or SAP S/4HANA system.
Auto Publish	Allows you to automatically publish the catalog: • **True**: Choose this option to automatically publish the catalog. This is the default option. When you enable this option, the `CatalogUploadRequest` file contains the value "TRUE" in the **AutoPublish enabled** field. • **False**: Choose this option if you do not want to automatically publish the catalog. When you enable this option, the`CatalogUploadRequest` file contains a blank value in the **AutoPublish enabled** field.
Test Run	You can choose one of the following: • Select the **Test Run** option when you want to run the catalog and check the CIF file before it is sent to SAP Business Network. The CIF file is downloaded on your SAP application server. Ensure that the application server directory exists with the necessary permissions before running the catalog import. When you run the incremental load subsequently, the stage table `ARBCIG_DOCCHANGE` continues to store the previous extracted data for the first run using the **Test Run** option. The stage table `ARBCIG_DOCCHANGE` is cleared only after the catalog items are sent to SAP Business Network.

Field Name	Description
	Specify the directory path in the **Dir Path for file download** field. The Dir Path for file download `ARBCIG_BUYER_CATALOG_EXPORT` program validates the file path that you specify. A folder "Catalog" is automatically created to store the catalog file when you specify the **Test Run** option or send the files using mediated connectivity. • Do not select the **Test Run** option if you choose to upload the CIF file using the mediated connectivity. The file path for mediated connectivity must be maintained in the parameter `TEMP_DIRECTORY`. For more information, see Maintaining Parameters to Import Master Data for More than One SAP Ariba Solution [page 171]. **Note** If the file path is invalid, the `ARBCIG_BUYER_CATALOG_EXPORT` program displays an error.
SAP Business Network Buyer ID	Specify the SAP Business Network ID of the buyer.
SAP Business Network Supplier ID	Specify the SAP Business Network ID of the supplier.
Email Notification to Buyer	Enter the email address of the buyer.

4. Click **Execute** to import the selected master data.

Implementing BAdI to Check Stock Inventory Details

Use this procedure to implement BAdI to check stock inventory details.

Context

Perform the following steps to implement BAdI to check stock inventory details:

Procedure

1. Run the transaction code **SPRO**.

The **Customizing: Execute Project** screen appears.

2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Business Add-Ins(BAdIs)** > **Stock Availability Request** .
4. Click **IMG-Activity** for **BAdI for Stock Availability Request**.
5. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.

BAdI	Description	Method
ARBCIG_STOCK_AVAILABILITY	Use this BAdI to check for stock in real-time.	PREPROCESSING: This method is called before processing a stock check request.

Reservation of Unrestricted Stock

For any prerequisites and limitations of the transaction, read Transactions for SAP Ariba Procurement solutions in SAP Integration Suite, Managed Gateway Overview Guide.

Implementing BAdI for Stock Reservation Request [page 527]

Related Information

Setting Up Cross-References for Stock Reservation [page 571]

Implementing BAdI for Stock Reservation Request

Use this procedure to implement BAdI for stock reservation request.

Context

Perform the following steps to implement BAdI for stock reservation request:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Business Add-Ins(BAdIs)** > **Stock Reservation Request** .
4. Click **IMG-Activity** for **BAdI for Stock Reservation Request**.
5. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.

BAdI	Description	Method
ARBCIG_STK_RESERVATION	Use this BAdI to enhance the structure of stock reservation request.	PREPROCESSINGCREATE: This method is called before creating a stock reservation request. PREPROCESSINGCHANGE: This method is called before changing or deleting a stock reservation request. POSTPROCESSING: This method is called after processing a stock reservation request. .

Derive Accounting Export

Maintaining Parameters to Derive Accounting [page 528]

Maintaining Parameters to Derive Accounting

Use this procedure to maintain parameters to derive accounting.

Context

You can derive accounting values from ERP for fund management account assignment fields.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Application Specific Settings** > **Derive Accounting Export** .
4. Click **IMG-Activity** for **Maintain Parameters for Derive Accounting Export**.

   The **Parameters - Derive Accounting Export** page appears.
5. Maintain the following parameters:

Parameter name	Description	Supported values
ASSET_TR_TYP_FI_BGD_CHK	Configure the asset transaction type if you want to use asset accounting assignment while deriving the fund elements. The value of the transaction type is what you have added in the A074 table.	• **Variable Name**: ASSET_TR_TYP_FI_BGD_CHK • **Field Name**: Leave it blank. • **Number**: 0000 • **Variant**: Provide a variant of SAP Ariba Procurement solutions. • **Partition**: Provide a partition of SAP Ariba Procurement solutions. • **Low**: For example, **120**

Account Assignment Category N (Network)

For any prerequisites and limitations for the account assignment category *N (Network)*, read Transactions for SAP Ariba Procurement solutions in SAP Integration Suite, Managed Gateway Overview Guide.

Maintaining Filters for Network [page 529]

Implementing BAdI for Network Master Data Export [page 532]

Importing the Network and Activity Master Data from SAP ERP or SAP S/4HANA to SAP Ariba Procurement Solutions [page 533]

Importing the Network Language Master Data from SAP ERP or SAP S/4HANA to SAP Ariba Buying and Invoicing [page 534]

Maintaining Filters for Network

Use this procedure to configure selection criteria to filter the master data to export.

Context

You can filter using the following conditions:

- Equality and inclusion: where **Option** is `EQ` and **Sign** is `I`.
- Ranges and exclusion: where **Option** is `BT` and **Sign** is `E`.
- Patterns and comparisons: where **Option** is `CP` and **Sign** is `I` or `E`.

You can maintain the following filters for *`N (Network)`*:

- **Master data export**
  - `NETWORK_EXPORT`
  - `ACTIVITY_EXPORT`
- **Master data language export**
  `NETWORK_LANG_EXPORT`

To maintain filters for SAP Ariba Buying and Invoicing, perform the following steps:

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **General Settings** > **Maintain Filters** > **Procurement**.
4. Click **IMG-Activity** for **Procurement**.

   The **Prefilters - Ariba Procurement Master Data** screen appears.

5. Click **Modify**.
6. In the **Prefilters - Ariba Procurement Master Data** page, select the prefilter, enter the values as described in the following table, and click **Enter**.

Filter name	Description	Supported values
NETWORK_EXPORT	Applicable for SAP Ariba Buying and Invoicing. This is an optional field. This parameter allows you to export the Network IDs from the SAP ERP or SAP S/4HANA to SAP Ariba Buying and Invoicing. Configure a selection criteria to filter the field names that need to be included in each master data export batch task for the Network IDs.	• **Variable Name**: NETWORK_EXPORT • **Field Name**: Field name that designates the Network IDs and their properties in the table AFKO. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Buying and Invoicing in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Buying and Invoicing in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. For example the Network ID number. • **High**: Blank if the option is not BT. **Note** You must provide filter value in the format maintained in the table. As the field for Network ID supports 12 characters, you must enter Network ID with 12 characters prefixing zeros as needed. For example, 4000000 must be entered as **000004000000**.

Filter name	Description	Supported values
ACTIVITY_EXPORT	Applicable for SAP Ariba Buying and Invoicing. This is an optional field. This parameter allows you to export the Activity IDs from the SAP ERP or SAP S/4HANA to SAP Ariba Buying and Invoicing. Configure a selection criteria to filter the field names that need to be included in each master data export batch task for the Activity IDs.	• **Variable Name**: ACTIVITY_EXPORT • **Field Name**: Field name that designates the Activity IDs and their properties in the table **AFVC**. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Buying and Invoicing in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Buying and Invoicing in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. For example the Company code (**BUKRS**). • **High**: Blank if the option is not BT.
NETWORK_LANG_EXPORT	Applicable for SAP Ariba Buying and Invoicing. This is an optional field. This parameter allows you to export the *N (Network)* details in multiple languages for Network IDs from the SAP ERP or SAP S/4HANA to SAP Ariba Buying and Invoicing. Configure a selection criteria to filter the languages that need to be included in each master data language export batch task for the Network IDs. This filter is applicable to the ARBCIG_MASTER_DATA_LANG_EXPORT report.	• **Variable Name**: NETWORK_LANG_EXPORT • **Field Name**: Field name that designates the multi-lingual names for the Network ID in the table CNLDST_SHORTTX. • **Type**: Enter **S** as the selection category. • **Number**: 0000 • **Variant**: The unique variant name for the SAP Ariba Buying and Invoicing in SAP ERP or SAP S/4HANA. For example, VREALM_2. • **Partition**: The unique site name for the SAP Ariba Buying and Invoicing in SAP ERP or SAP S/4HANA. For example, PREALM_2. • **Sign**: Enter **I**. • **Option**: Enter **EQ**. • **Low**: Enter the filter value for the criterion you set for field. For example **D** or **DE** for German. • **High**: Blank if the option is not BT.

Implementing BAdI for Network Master Data Export

Use this procedure to maintain the BAdI **ARBCIG_MASTERDATA** for network master data export.

Context

To maintain BAdI for network master data export, perform the following steps:

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Enhancements** > **Business Add-Ins(BAdIs)** > **Master Data Export** .
4. Click **IMG-Activity** for **Master Data Export**.

   The **Business Add-Ins: All Implementations for Definition MASTER_DATA** screen appears.
5. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: **ARBCIG_MASTERDATA**

   The following table lists methods that you can implement for:
   - **Master data export**

Method Name	Description
PUBLISH_NETWORK	Publishes network details after processing
PUBLISH_ACTIVITY	Publishes activity details after processing

   - **Master data language export**

Method Name	Description
PUBLISH_NETWORK_NAMES	Publishes network names details after processing

Importing the Network and Activity Master Data from SAP ERP or SAP S/4HANA to SAP Ariba Procurement Solutions

Use this procedure to import the network and activity master data from SAM ERP or SAP S/4HANA to SAP Ariba Procurement solutions.

Context

The master data export program, `ARBCIG_MASTER_DATA_EXPORT` has been enhanced to support the extraction of the network and the activity master data. To import the network and the activity master data, perform the following steps:

Procedure

1. Run the transaction code `SE38`.

   The **ABAP Editor: Initial Screen** appears.
2. In the **Program** field, enter the program name, `ARBCIG_MASTER_DATA_EXPORT`. Click **Execute**.

   The **Export All Master Data Required for On-Demand Application** page appears.
3. (Optional) Select the **Test Run** option only when you want to run the master data program and check the contents in the .csv file. The master data .csv file is downloaded on your SAP application server. Ensure that the application server directory exists with the necessary permissions before running the master data import.

   Specify the directory path for downloading the files in the **Directory Path for file download** field.
4. In the **Solution** section, choose one of the following:
   - **Procure-to-Pay**: To import master data for SAP Ariba Buying and Invoicing customers.
   - **Procure-to-Order**: To import master data for SAP Ariba Buying customers. This option does not support downloading the remittance location of suppliers.
5. In the **Load Options** section, choose **Full Load** to import all the master data records that are available for the master data type.
6. In the **Encoding to be used** field, specify the encoding. For example, UTF-8. This is a required field and is case-sensitive.
7. In the **Variant** field, specify the unique variant name for SAP Ariba Procurement solutions in your SAP ERP or SAP S/4HANA system. For example, **`VREALM_2`**.
8. In the **Partition** field, specify the unique site name for SAP Ariba Procurement solutions in your SAP ERP or SAP S/4HANA system. For example, **`PREALM_2`**.
9. For multi-ERP enabled setup, check **FPC Enabled**.

   In the **Site** field, specify the name of the realm. You must enter the name of the realm that is configured in the customization tables such as AUTHPARAM, USR_GRP, INCRDTTIM, and so on.
10. Check **Network and Activity** and click **Execute**.

Importing the Network Language Master Data from SAP ERP or SAP S/4HANA to SAP Ariba Buying and Invoicing

Use this procedure to import the network language master data from SAP ERP or SAP S/4HANA to SAP Ariba Buying and Invoicing.

Context

The master data export program, `ARBCIG_MASTER_DATA_LANG_EXPORT` has been enhanced to support the extraction of the network language master data. To import the network language master data, perform the following steps:

Procedure

1. Run the transaction code `SE38`.

   The **ABAP Editor: Initial Screen** appears.
2. In the **Program** field, enter the program name, `ARBCIG_MASTER_DATA_LANG_EXPORT`. Click **Execute**.

   The **Pulls All The Master Data In Diff Lang Required For Ariba Application** page appears.
3. Select the **Test Run** option when you want to run the master data program and check the contents in the .csv file. The master data `.csv` file is downloaded on your SAP application server. Ensure that the application server directory exists with the necessary permissions before running the master data import.

   Specify the directory path for downloading the files in the **Directory Path for file download** field.
4. In the **Encoding to be used** field, specify the encoding. For example, UTF-8. This is a required field and is case-sensitive.
5. In the **Variant** field, specify the unique variant name for SAP Ariba Procurement solutions in your SAP ERP or SAP S/4HANA system. For example, **`VREALM_2`**.
6. In the **Partition** field, specify the unique site name for SAP Ariba Buying and Invoicing in your SAP ERP or SAP S/4HANA system. For example, **`PREALM_2`**.
7. For multi-ERP enabled setup, check **FPC Enabled**.

   In the **Site** field, specify the name of the realm. You must enter the name of the realm that is configured in the customization tables such as `AUTHPARAM`, `USR_GRP`, `INCRDTTIM`, and so on.
8. Check **Network Language** and click **Execute**.

Configuration of Transactions Supported by SAP Ariba Strategic Sourcing Suite

This section provides information about configuring transactions supported by SAP Ariba Strategic Sourcing Suite:

> **Note**
>
> When you use SAP S/4HANA, on-premise edition 2020 with SAP Ariba Contracts or SAP Ariba strategic sourcing solutions, ensure that you apply the SAP Note 2945140.

Transactions for SAP Ariba Strategic Sourcing Suite [page 535]

Integration Support for SAP Ariba Spend Analysis [page 548]

Transactions for SAP Ariba Strategic Sourcing Suite

Defining the Condition Records and Output Types [page 535]

Maintaining Parameters for the Request for Quotation [page 537]

Configuring Service Text IDs for Buyers and Suppliers in Request for Quotation [page 540]

Implementing the Customer Exit for Requests for Quotation [page 541]

Viewing the SAP Ariba Document IDs and the Corresponding ERP ID Associated with the Scheduling Agreement on the SAP ERP System [page 542]

Viewing the SAP Ariba Quote IDs and the Corresponding ERP ID Associated with the Scheduling Agreement on the SAP ERP System [page 543]

Configuring the SRVMAPKEY for Service Purchase Orders [page 543]

Configuring Implicit Enhancements for the Canceled Request for Quotation [page 544]

Maintaining Pricing Conditions in SAP Integration Suite, Managed Gateway [page 545]

Maintaining the Parameter for Enabling the Direct Integration Between SAP Integration Suite, Managed Gateway and SAP Ariba Strategic Sourcing Solutions [page 547]

Defining the Condition Records and Output Types

Use this procedure to define the condition records and output types.

Context

Maintain the condition records and output types to process requests for quotations sent from the SAP ERP system.

Procedure

1. Run the transaction code **SPRO**.

   The Customizing: Execute Project page appears.

2. Click **SAP Reference IMG**.

   The Display IMG page appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Strategic Sourcing Suite Integration** > **Application Specific Settings** > **Request for Quotation** > **Define Message Output Control for Request for Quotation**.

   The Conditions for Output Control page appears.

4. Select application **EA** and click **Output Types**. The Display View "Output Types": Overview page appears.
5. Click the output type maintained for the request for quotation. For example, choose NEU and click **Change**. The Change View "Output Types": Overview page appears.
6. Click **New Entries**. The New Entries: Details of Added Entries screen appears.
7. On the General Data tab, select 0001 DocType/PurchaseOrg/Vendor in the **Access sequence** field.
8. Enter the following values to create an entry in the **Default values** tab:
   - **Dispatch time**: `Send immediately (when saving the application)`
   - **Transmission Medium**: `EDI`
   - **Partner Function**: `LS`
9. Save the changes.
10. Click the output type maintained for the request for quotation. For example, NEU and double-click **Processing routines**. The Change View "Processing routines": Overview page appears.
11. In the **Processing routines** section, create an entry as follows:
    - **Transmission Medium**: `EDI`
    - **Program**: `RSNASTED`
    - **FORM routine**: `EDI_PROCESSING`
12. Save the changes.
13. Click the output type maintained for the request for quotation. For example, NEU and double-click **Partner Functions**. The Change View "Partner functions": Overview page appears.
14. In the **Partner Functions** section, create an entry as follows:
    - **Medium** - `EDI`
    - **Function** - `LS`
    - **Description** - `Logical System`
15. Save the changes and go to the Conditions for Output Control page.
16. Click the output type maintained for the request for quotation. For example, NEU and double-click **Condition records**. The Output Types dialog box appears.
17. Click the relevant output type. For example, NEU.
18. Click **Condition records**.
19. Click the **Purchasing Output Determination: Doc Type/Purch. Org./Vendor** and then click **OK**.
20. Maintain the following parameters by creating a new entry:
    - **Purchasing Doc Type**: Choose a purchasing doc type. For example, `AN`.
    - **Purch.Organization**: Choose a purchasing organization.
    - **Vendor**: Choose a vendor.
21. Save the entry.

22. Click **Execute**.

Maintaining Parameters for the Request for Quotation

Use this procedure to maintain parameters for the request for quotation.

Context

Maintain the following parameters for requests for quotation. Maintain the parameters to send the text descriptions at the header-level and line-item level for internal and external users in requests for quotation.

Procedure

1. Run the transaction code SPRO.

   The Customizing: Execute Project page appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Strategic Sourcing Suite Integration** > **Application Specific Settings** > **Request for Quotation** > **Maintain parameters for Request for Quotation**
4. Maintain the following parameters:

Variable Name	Required for..	Field Name	Number	Variant	Partition	Low
RFQ_EXTERNAL_NOTE	To send the long text description specified at the header-level for external users in the Request for Quotation	EKKO	0000	The unique variant name for the SAP Ariba Sourcing solution in SAP ERP.	The unique site name for the SAP Ariba Sourcing solution in SAP ERP.	Enter the text ID for the long text description for external users. For example,A01.
RFQ_EXTERNAL_NOTE	To send the long text description specified at the line-item level for external	EKPO	0000	The unique variant name for the SAP Ariba Sourcing solution in SAP ERP.	The unique site name for the SAP Ariba Sourcing solution in SAP ERP.	Enter the text ID for the long text description for external users. For example,A01.

Variable Name	Required for..	Field Name	Number	Variant	Partition	Low
	users in the Request for Quotation					
RFQ_INTERNAL_NOTE	To send the long text description specified at the header-level for internal users in the Request for Quotation	EKKO	0000	The unique variant name for the SAP Ariba Sourcing solution in SAP ERP.	The unique site name for the SAP Ariba Sourcing solution in SAP ERP.	Enter the text ID for the long text description for internal users. For example,A03.
RFQ_INTERNAL_NOTE	To send the long text description specified at the line-item level for internal users in the Request for Quotation	EKPO	0000	The unique variant name for the SAP Ariba Sourcing solution in SAP ERP.	The unique site name for the SAP Ariba Sourcing solution in SAP ERP.	Enter the text ID for the long text description for internal users. For example,A03.
RFQ_ENABLED	To enable the RFQ integration. This parameter setting allows SAP Ariba Sourcing to receive and process RFQs from an SAP ERP system.	Leave this field blank	0000	The unique variant name for the SAP Ariba Sourcing solution in SAP ERP.	The unique site name for the SAP Ariba Sourcing solution in SAP ERP.	• Enter **X** to enable the RFQ integration . • Leave this field blank to disable the RFQ integration .
ARIBA_SRVMAPKEY	To enable the RFQ integration. This parameter setting allows SAP Ariba Sourcing to receive and process RFQs that have service line number and	Leave this field blank	0000	The unique variant name for the SAP Ariba Sourcing solution in SAP ERP.	The unique site name for the SAP Ariba Sourcing solution in SAP ERP.	• Enter **X** to enable the RFQ integration . • Leave this field blank to disable the RFQ integration .

Variable Name	Required for..	Field Name	Number	Variant	Partition	Low
	use the service map key activated on the SAP ERP or SAP S/4HANA system. Configure this setting only if your RFQ transfer from SAP ERP or SAP S/4HANA to SAP Business Network fails. This usually occurs when the business function `LOG_MM_P2PSE_1` is not active on your SAP ERP or SAP S/4HANA system. You need to also implement the SAP Note 2372821 only if the standard field `SRVMAPKEY` is not activated on your SAP ERP or SAP S/4HANA system. The standard field `SRVMAPKEY` in the **SAP Table ESLL** stores RFQ `Item ID` information. The service map key is					

Variable Name	Required for..	Field Name	Number	Variant	Partition	Low
	required to identify the line numbers for the service lines. If the SRVMAPKEY is not available, the `Item ID` does not populate the line numbers for the service lines correctly.					

Configuring Service Text IDs for Buyers and Suppliers in Request for Quotation

Use this procedure to configure service text IDs for buyers and suppliers in request for quotation.

Context

Buyers can configure and maintain the long text descriptions to categorize them for buyers and suppliers in the request for quotation. As a buyer, you maintain an ID for each of the long text description. Specify true when you want to mark the long text description for supplier. When you specify false, your suppliers cannot view the long text descriptions. Irrespective of the value you specify, as a buyer you can always view the long text description.

Enter the text object category and the corresponding ID for each long text description and mark them for suppliers, as required.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** page appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Strategic Sourcing Suite Integration** > **Application Specific Settings** > **Request for Quotation** > **Configure Text IDs for Buyers and Suppliers in the RFQ**

4. Maintain the following parameters:

Text Object	Text Description	Required for..	Visible To Suppliers
ESLL	LLTX	To send the long text description specified at the header-level for external users in the request for quotation.	• Select **x true** to enable visibility to suppliers. • Select - **false** to disable visibility to suppliers.
ESLL	LTXT	To send the long text description specified at the line-level for external users in the request for quotation.	• Select **x true** to enable visibility to suppliers. • Select - **false** to disable visibility to suppliers.

Implementing the Customer Exit for Requests for Quotation

Use this procedure to implement the customer exit for requests for quotation.

Context

Implement the following customer exit for requests for quotation. You can enhance the RFCs provided by SAP Ariba by adding customer exits or make changes to enhancement points.

Procedure

1. Run the transaction code SPRO.

   The Customizing: Execute Project page appears.
2. Click **SAP Reference IMG**.

   The Display IMG page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Strategic Sourcing Suite Integration** > **Application Specific Settings** > **Request for Quotation** > **Implement a Customer Exit for Request for Quotation** >.

   The Project Management of SAP Enhancements page appears.
4. Click **Create** to create a new project. For example, ZMMIDOC.
5. Click **Enhancement Assignments** and then enter the user exit name, MM06E001.
6. Press **Enter**.
7. Go back and click **Components** and then double-click the following enhancement name **EXIT_SAPLEINM_002**.

8. In the new screen that appears, double-click **INCLUDE ZXM06U02** and press **Enter**.
9. Copy and paste the code `INCLUDE arbcig_quote_request_002`.
10. Click the **Activate** button.
11. Go back and click **Components** and then double-click the following enhancement name **EXIT_SAPLEINM_011**.
12. In the new screen that appears, double-click **INCLUDE ZXM06U33** and press **Enter**.
13. Copy and paste the code `INCLUDE arbcig_quote_request_011`.
14. Click the **Activate** button.
15. Go back and activate the user exit also.

Viewing the SAP Ariba Document IDs and the Corresponding ERP ID Associated with the Scheduling Agreement on the SAP ERP System

This procedure describes how to view the SAP Ariba document IDs and the corresponding ERP ID associated with the scheduling agreement on the SAP ERP system.

Context

SAP Ariba maintains the document ID sent by SAP Ariba Contracts and the corresponding ERP ID associated with the contract for the document category, scheduling agreement on the SAP ERP system. Buyers can view the document IDs and the ERP ID associated with the scheduling agreement, using the transaction code `ARBCIG_SRC_CONT_MAP`.

Procedure

1. Go to the transaction code `ARBCIG_SRC_CONT_MAP`.
2. Select *Scheduling Agreement* document category in the field, **Ariba Doc Category**.
3. Select one of the following in the **Object ID category** field:
   - *Ariba Document Number* to view the document ID sent from SAP Ariba Contracts
   - *ERP Document Number* to view the corresponding ERP ID associated with the scheduling agreement on the SAP ERP system
4. Select the ERP business system for SAP Ariba Contracts in the **Business System** field.
5. Enter the document ID for the contract sent by SAP Ariba Contracts or the corresponding ERP ID associated with the scheduling agreement stored on the ERP system in the **ID Value** field.
6. Click **Start Search**.

   View the event IDs and the corresponding ERP ID, using the transaction code, `ARBCIG_SRC_CONT_MAP`.

Viewing the SAP Ariba Quote IDs and the Corresponding ERP ID Associated with the Scheduling Agreement on the SAP ERP System

This procedure describes how to view the SAP Ariba quote IDs and the corresponding ERP ID associated with the scheduling agreement on the SAP ERP system.

Context

SAP Ariba maintains the quote ID sent by SAP Ariba Sourcing and the corresponding ERP ID associated with the RFx sourcing award for the document category, scheduling agreement on the SAP ERP system. Buyers can view the quote IDs and the ERP ID associated with the scheduling agreement, using the transaction code `ARBCIG_SRC_CONT_MAP`.

Procedure

1. Go to the transaction code `ARBCIG_SRC_CONT_MAP`.
2. Select **Scheduling Agreement** document category in the field, **Ariba Doc Category**.
3. Select one of the following in the **Object ID category** field:
   - **Ariba Document Number** to view the quote ID sent from SAP Ariba Sourcing
   - **ERP Document Number** to view the corresponding ERP ID associated with the scheduling agreement on the SAP ERP system
4. Select the ERP business system for SAP Ariba Sourcing in the **Business System** field.
5. Enter the quote ID for the RFx sourcing award sent by SAP Ariba Sourcing or the corresponding ERP ID associated with the scheduling agreement stored on the ERP system in the **ID Value** field.
6. Click **Start Search**.

   View the event IDs and the corresponding ERP ID, using the transaction code, `ARBCIG_SRC_CONT_MAP`.

Configuring the SRVMAPKEY for Service Purchase Orders

Use this procedure to configure the SRVMAPKEY for service purchase orders.

Context

Configure this setting only if your service purchase order transfer from ERP to SAP Business Network fails. This usually occurs when the business function `LOG_MM_P2PSE_1` is not active on your SAP ERP system. You need to also implement the SAP Note 2372821 only if the standard field SRVMAPKEY is not activated on your SAP ERP system. The standard field SRVMAPKEY in the SAP Table ESLL stores service purchase order Item ID information.

The service map key is required to identify the line numbers for the service lines. If the SRVMAPKEY is not available, the Item ID does not populate the line numbers for the service lines correctly.

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **Purchase Order** >.
4. Click **IMG-Activity** for **Maintain Parameters for Purchase Order**.

   The **Parameters - Purchase Order** screen appears.
5. Create the following parameter for service purchase orders having service hierarchies:

   - **Variable Name**: ARIBA_SRVMAPKEY
   - **Field Name**: Leave it empty.
   - **Number**:0 (zero)
   - **INCL/EXCL**: I
   - **Option**: EQ
   - **Selection value**: X
   - **Selection value**: Leave it empty.
6. Save the changes.

Configuring Implicit Enhancements for the Canceled Request for Quotation

Use this procedure to configure implicit enhancements for the canceled request for quotation.

Context

Configure implicit enhancements to send the canceled requests for quotation to SAP Ariba Sourcing. You must configure this enhancement if you are a customer using SAP Integration Suite, managed gateway using ARBCI1 100: SP 0001 to SP 0006 or ARBCI1 10S: SP 0001 to SP 0006.

> **Note**
>
> You do not need to configure this implicit enhancement if you are on SAP S/4HANA 2020 FPS0 or later versions.

You can apply the SAP Note 2991801 to use the standard BAdIs in SAP S/4HANA.

Procedure

1. Implement the SAP Note 2832573.
2. Run the transaction code `SE38`.

   The **ABAP Editor: Initial Screen** appears.
3. Enter `LEINMF0Q` for **Program** and click **Display**.
4. Click **Enhance** in the application toolbar.
5. Select **SAPLEINM** from the list.
6. Click **Edit** > **Enhancement Operations** > **Show Implicit Enhancement Options** to display a line after the `lesen_beleg` form.
7. Right-click the line and select **Enhancement Implementation** > **Create**.
8. Click **Code** on the **Choose Type of Enhancement** popup to display **Select or Create Enhancement Implementation**.
9. Click **Create Enhancement Implementation**.
10. Enter a name and description for the enhancement and press **Enter**.
11. In the package field, specify your Z or Y package, press **Enter**, and save the package to a transport request.
12. Enter the following include: **INCLUDE ARBCIG_ORDER_REQUEST_LEINMF0Q IF FOUND**.
13. Save and activate the enhancement.

Maintaining Pricing Conditions in SAP Integration Suite, Managed Gateway

Use this procedure to maintain pricing conditions in SAP Integration Suite, managed gateway.

Context

You can maintain certain fields that SAP Ariba requires for document types per transaction. SAP Ariba recommends that you maintain fields that support more than one value in the **My Configurations** > **CrossRefs** > **Lookup Table** of the SAP Integration Suite, managed gateway.

Buyer users can specify the different values that they require and map the values to the value that SAP Ariba requires on the SAP Integration Suite, managed gateway. You define the lookup fields and their values for the `QuoteMessageContractServices` and `ContractRequestServices` document. You can define the values for both test and production environments.

Procedure

1. Sign in to the SAP Integration Suite, managed gateway.
2. Click the **Navigation** button on the top left-corner and then click **My Configurations** > **CrossRefs**.
3. Edit the project that you created and then go to the **Lookup Table** section.
4. Choose the `QuoteMessageContractServices` or `ContractRequestServices` document type from the **Document Type** field.
5. Do one of the following:
   - To edit an existing field, choose the field and click the **Edit** icon.
   - To add a new field, click **Add**. Enter the field names and associated values.
6. Enter the following fields for the `QuoteMessageContractServices` or `ContractRequestServices` in the **TEST Environment** and **PROD Environment**:

   QuoteMessageContractServices and **ContractRequestServices**

Lookup table fields	Description	Values to be maintained
Document Types/ Names	Choose the document type for the transaction document.	Maintain the following value: • `QuoteMessageContractServices` • `ContractRequestServices`
Maintain the lookup values	Choose the name of the lookup value.	`PricingConditions`

Ariba Value	The following data types are available based on the values you maintain on SAP Ariba Sourcing or SAP Ariba Contracts:
	Pricing Conditions:
	• `PRICE`
	• `DISCOUNT`
	• `SURCHARGE`
	Note
	When you use simple pricing conditions and do not send any value in the pricing validity period (*From* and *To* validity date) fields, SAP Ariba sends a default value for the pricing validity period.
		Maintain the following SAP Ariba values for each of the data types.
		• Maintain the values for the pricing conditions:
		  • `PRICE`: Specify the gross pricing condition of the item.
		  • `DISCOUNT`: Specify the deductions available for the items. Applicable only when taxes and allowances are applied.
		  • `SURCHARGE`: Specify the additional cost amount. Applicable only when taxes and allowances are applied.

Customer Value	Maintain the customer values for each of the data types.	Enter the following values: • Enter a value for the Pricing conditions: • `PRICE`: For example, PB00.

Lookup table fields	Description	Values to be maintained
		• DISCOUNT: For example, RB00. • SURCHARGE: For example, ZB00.

Maintaining the Parameter for Enabling the Direct Integration Between SAP Integration Suite, Managed Gateway and SAP Ariba Strategic Sourcing Solutions

This procedure describes how to enable the SRC_DIRECT parameter for direct integration between SAP Integration Suite, managed gateway and SAP Ariba strategic sourcing solutions to meet data residency requirements.

Context

To enable the **SRC_DIRECT** parameter, perform the following steps:

Procedure

1. Run the SPRO transaction code.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Strategic Sourcing Suite Integration** > **General Settings** > **Set Up the Interface** >.
4. Click **IMG-Activity** for **Enable direct integration bypassing SAP Business Network**.

   The **Parameters - Enable Direct Sourcing Integration** page appears.
5. Click **Modify** and enable the following parameter:

Parameter Name	Description	Supported Values
SRC_DIRECT	Use this parameter for direct integration between SAP Integration Suite, managed gateway and SAP Ariba strategic sourcing solutions to meet data residency requirements. It enables bi-directional data flow between SAP ERP or SAP S/4HANA and SAP Ariba strategic sourcing solutions, bypassing SAP Business Network.	• **Variable Name**: SRC_DIRECT • **Field Name**: Leave empty • **Number**: 0000 • **Low**: **X** (to enable) or leave it blank (to disable)

6. Click **Save**.

Related Information

Support for Direct Integration to Meet Data Residency Requirements
Prerequisites

Integration Support for SAP Ariba Spend Analysis

For more information about the integration support forSAP Ariba Spend Analysis, see Integration Support for SAP Ariba Spend Analysis in SAP Integration Suite, Managed Gateway Overview Guide.

Sending the Spend Data to SAP Ariba Spend Analysis

This procedure describes how to send spend data to SAP Ariba Spend Analysis.

Context

Buyers must configure their SAP ERP and SAP S/4HANA system to send information about spend data to SAP Ariba Spend Analysis.

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.

2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Go to **Integration with Other SAP Components** > **Managed Gateway for Spend&Network for Buyer** > **SAP Ariba Strategic Sourcing Suite Integration** > **General Settings-** > **Setup the Interface** .
4. Click **IMG-Activity** for **Configure the Connections to Send Messages**.

   The **Interface Setup for Program for SAP Ariba Strategic Sourcing** screen appears.

   - **Interface Setup for Web Service**

5. In the section, **Outbound Messages sent to Managed Gateway for Spend&Network** , check the following field from the list of outbound transactions:

   - **SAP Ariba Spend Analysis Data**

6. Choose a data center.
7. Do one of the following:
   a. Choose **Connect to Managed Gateway for Spend&Network Production Instance** to connect to a production environment.
   b. Choose **Connect to Managed Gateway for Spend&Network Test Instance** to connect to a test environment.
8. Choose one of the following authentication methods:
   a. Click **User ID/Password**.
      - In the **User Name** text box, enter the P user ID that you activated while registering the SAP Ariba application with SAP Integration Suite, managed gateway.
      - Enter the password for the P user ID. The password you specify here must match the password you entered while registering the SAP Ariba application with SAP Integration Suite, managed gateway.

   b. Click **X.509 SSL Client Certificate**.
      - Choose a certificate in the **Certificate Name** field.

   c. Enter the following values if you are using a middleware. The following fields appear only when you enable the **ENABLE_MIDDLEWARE** parameter in the **Global Settings** section:
      - **URL Host**: Enter the host URL for the middleware. For example, `https://<host name:port number>`.
      - **Path Prefix**: Enter the path prefix for the middleware. For example, `https://<hostname:port number>/<path prefix to the receiver document>`.

9. If you use a proxy server, enter the following:
   - Enter the HTTP proxy name in the **Name of Proxy Host** field. For example, proxy.abc.com.
   - Enter the port name in the **Port Number of Proxy Host** field. For example, 8080.
   - Enter the user name for the proxy server in the **User Name of Proxy Server** field. For example, Acme12.
   - Enter the password for the registered user name in the **Proxy User Password** field. For example, 1Aze45lmnwe.

10. Click **Execute**.

Setting the Site Name for SAP Ariba Spend Analysis

This procedure describes how to set the site name for SAP Ariba Spend Analysis.

Context

Set the site name to send the spend data to SAP Ariba Spend Analysis.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Go to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Strategic Sourcing Suite Integration** > **Application Specific Settings-** > **SAP Ariba Spend Analysis** > **Set the Site Connection** .

   The IMG-Activity, *Change View "Direct Connectivity Parameters": Overview* page appears.
4. Click **New Entries**.
5. Enter the following values:
   - *Solution*: Choose SAP Ariba Spend Analysis as the solution name from the list.
   - *Realm*: Enter the site name for SAP Ariba Spend Analysis.
   - *Par*: Choose this check box if the realm is a parent site.
   - *Waiting Time*: Leave it blank.
   - *Logical Port Name*: Leave it blank.
6. Click **Save**.

Running the Spend Information Report

This procedure describes how to run the spend information report.

Prerequisites

Ensure that you have the following ZIP files to process the files from SAP Ariba Data Stager (ADS) to SAP Ariba Spend Analysis; only then does the job ID get created and processed:

- Invoice
- Invoice Summary
- PO
- PO Summary

If the master data is being sent from `ARBCIG` to `SPENDANALYSIS`, then in ADS there are two different flows (MDS and ARBCIG), and the below steps must be followed:

- Master Data Service (MDS): Master data does not need to be uploaded because it will be fetched directly from MDS.
- ARBCIG: In addition to the ZIP files listed above, a master data ZIP file must be posted first before posting the remaining files.

Context

Use the transaction code, `ARBCIG_SPENDANALYSIS` or use the transaction code `SPRO` to send the spend information about purchase orders and invoices from the ERP systems to SAP Ariba Spend Analysis using the custom date range and time period load events.

> **Note**
>
> After running the report, if you find there are missing purchase orders in the report, you can specify the necessary filters and run the report again to fetch the missing purchase orders.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Go to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Strategic Sourcing Suite Integration** > **Application Specific Settings** > **SAP Ariba Spend Analysis** > **SAP Ariba Spend Analysis Extraction Report**.
4. (Optional) Choose the **Test Run** option when you want to run the spend data program in the test mode and check the contents in the .csv file. The spend data .csv file is downloaded on your SAP application server. Ensure that the application server directory exists with the necessary permissions before running the spend data task.
5. Specify the directory path in the **Directory Path** field.
6. Choose one of following:
    - **Purchase Order**
    - **Invoice**
7. (Required only if you do not specify filters) In the section, **Load Options** do the following:
    - Click **Date and Time Period** and choose a time period.
    - Choose one of the following:
        - In the **Time Period** field, choose one of the options to import the data records that are available for the transaction.
        - Click **Custom Date Range** and specify the dates to import the data records that have been updated during the specified date range. This date range could also be the last data that was imported from the SAP ERP system.
8. In the **Default Configuration** section, specify the following:
    - **Language**: Specify EN.
    - **Logical System**: SAP ERP displays the logical system. You can also choose another logical system.
    - **Batch Size**: Enter the number of records to be sent in a batch file.
    - **Packet Size**: Enter the packet size.
9. Click **Set Filters** and then specify the filters for the purchase order or invoice.
10. Click **Enter**.

> **Note**
>
> To resend the data records that failed, run the transaction code SPR0 and go to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Resend Master Data or Catalog Upload Request**.

Running the Flex Dimension Report

Use this procedure to run the flex dimension report.

Context

Use the transaction code, `ARBCIG_FLEXDIMENSIONS` or use the transaction code `SPRO` to send the information about flex dimensions from the ERP systems to SAP Ariba Spend Analysis.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Go to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Strategic Sourcing Suite Integration** > **Application Specific Settings** > **SAP Ariba Spend Analysis** > **SAP Ariba Spend Analysis Flex Dimensions Report**.
4. (Optional) Choose the **Test Run** option when you want to run the spend data flex dimensions program in the test mode and check the information for flex dimensions in the .csv file. The flex dimensions data .csv file is downloaded on your SAP application server. Ensure that the application server directory exists with the necessary permissions before running this task.
5. Specify the directory path in the **Directory Path** field.
6. In the **Default Configuration** section, specify the following:
   - **Batch Size**: Enter the number of records to be sent in a batch file.
   - **System ID**: SAP ERP displays the system ID value. You can also choose another system ID (logical system).
7. Choose the flex dimensions as required.
8. Click **Execute**.

> **Note**
>
> To resend the data records that failed, run the transaction code SPRO and go to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Resend Master Data or Catalog Upload Request**.

Implementing the BAdI for the Spend Data

Use this procedure to implement the BAdI for the spend data.

Context

Use the BAdI, `ARBCIG_SPEND_VISIBILITY` to customize the information being sent from SAP ERP to SAP Ariba Spend Analysis. Implement this BAdI to enhance the information you send in purchase orders and invoices to SAP Ariba Spend Analysis.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Go to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Strategic Sourcing Suite Integration** > **Business Add-Ins (BAdIs)** > **SAP Ariba Spend Analysis** > **BAdI for SAP Ariba Spend Analysis**.
4. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: `BAdI for SAP Ariba Spend Analysis`

   The following table lists the method that you can implement:

Method Name	Description
`MODIFY_PO_FLEXFIELD`	Allows you to add the flex fields for purchase orders.
`PUBLISH_MODIFY_PO_DATA`	Allows you to modify the purchase order data before you publish the data to SAP Ariba Spend Analysis.
`PUBLISH_SV_PROXY_DATA`	Allows you to modify the spend data before you publish the data to SAP Ariba Spend Analysis.
`PUBLISH_MODIFY_INV_DATA`	Allows you to modify the invoice data before you publish the data to SAP Ariba Spend Analysis.
`MODIFY_INV_FLEXFIELD`	Allows you to add the flex fields for invoices.

Implementing the BAdI for Customizing Flex Dimensions

Use this procedure to implement the BAdI for customizing flex dimensions.

Context

The BAdI, `ARBCIG_SV_FLEXDIMENSIONS` allows buyers to customize the flex dimensions as per the requirements. Implement this BAdI to customize the methods that SAP Ariba provides for flex dimensions.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Go to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Strategic Sourcing Suite Integration** > **Business Add-Ins (BAdIs)** > **SAP Ariba Spend Analysis** > **BAdI for SAP Ariba Spend Analysis Flex Dimensions**.
4. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: `ARBCIG_SV_FLEXDIMENSIONS`

   The following table lists the method that you can implement:

Method Name	Description
• FLEXDIMENSION_1 • FLEXDIMENSION_2 • FLEXDIMENSION_3 • FLEXDIMENSION_4 • FLEXDIMENSION_5 • FLEXDIMENSION_6 • FLEXDIMENSION_7 • FLEXDIMENSION_8 • FLEXDIMENSION_9 • FLEXDIMENSION_10 • FLEXDIMENSION_11 • FLEXDIMENSION_12 • FLEXDIMENSION_13 • FLEXDIMENSION_14	Use this method to customize the BAdI before sending the flex dimension information to SAP Ariba Spend Analysis. SAP Ariba provides the following structure: • ARBCIG_SV_FLEXDIMENSION1: This structure supports methods, FLEXDIMENSION_1-5 and FLEXDIMENSION_7-9. • ARBCIG_SV_FLEXDIMENSION6: This structure supports methods, FLEXDIMENSION_6 and FLEXDIMENSION_10 - 12. • ARBCIG_SV_FLEXDIMENSION13: This structure supports methods, FLEXDIMENSION_13 and 14.

Scheduling the Job for the Spend Data

Use this procedure to schedule the job for the spend data.

Context

Configure the background job to schedule the run of the full load spend data. SAP ERP sends the full load spend data to SAP Ariba Spend Analysis.

Procedure

1. Run the transaction code `SM36`.

   The **Define Background Job** screen appears.
2. Enter a name for the job in the **Job Name** field.
3. Press **Enter**.
4. Enter the program name, `ARBCIG_SPENDVISIBILITY_EXPORT` in the **Name** field.
5. Choose a variant for the report in the **Variant** field.
6. Specify the priority class in the **Job class** field.
7. The Status field displays the value "Scheduled."
8. In the **Exec. Target** field, choose the server name of the SAP ERP on which the scheduled job must run.
9. Specify the job start and the frequency to schedule the program, `ARBCIG_SPENDVISIBILITY_EXPORT`.

Cross References Setup on SAP Integration Suite, Managed Gateway

You can define the values for parameters and fields of document types added for each transaction. The transactions, the related parameters, document types and its related templates are added by the administrator.

When setting up cross references, SAP Ariba recommends that you click the **Next** button until you reach the end of the process and then lastly, click **Confirm**. This step is applicable when you add or edit the parameter values for the cross references. When you click **Confirm**, SAP Integration Suite, managed gateway saves the cross references values. Ensure that you click **Confirm** before you save the changes on the Cross Reference page. If you only save the changes, without clicking **Confirm**, SAP Integration Suite, managed gateway does not save the cross references values.

> ⓘ Note
>
> If you prefer not to define cross-reference values in the **Parameter** or **Lookup Table** tabs, you can select a document type and go to next step.
>
> There is no restriction on the number of projects that you can configure for integrating SAP Business Network or SAP Ariba applications with the same instance of SAP ERP or SAP S/4HANA. However, as part of configuring an additional project, if you delete a cross reference parameter that a project in production uses, the deletion reflects in the project in production as well. The deletion occurs irrespective of whether the additional project that you create is in Test or Production and can affect the project in production adversely.

Setting Up Cross References for SAP Business Network [page 557]

Setting Up Cross References for SAP Ariba Procurement Solutions [page 569]

Assigning Realm ID to Your Projects [page 573]

Setting Up Cross References for SAP Ariba Sourcing and SAP Ariba Contracts [page 574]

Setting Up Cross References for Service Requisitions and Service Orders [page 594]

Setting Up Cross References for SAP Business Network

Use this procedure to set up cross references for SAP Business Network

Context

You can define the values for parameters added for each transaction in the **Cross Reference** page. The transactions and the related parameters are added by the administrator. You can define the values for both test and production environments.

When setting up cross references, SAP Ariba recommends that you click the **Next** button until you reach the end of the process and then lastly, click **Confirm**. This step is applicable when you add or edit the parameter values for the cross references. When you click **Confirm**, SAP Integration Suite, managed gateway saves the cross references values. Ensure that you click **Confirm** before you save the changes on the Cross Reference page. If you only save the changes, without clicking **Confirm**, SAP Integration Suite, managed gateway does not save the cross references values.

> ### Note
>
> The PortName and LSEnabled parameters are mandatory to configure Order Confirmation, and Invoice.

Procedure

1. Sign in to the SAP Integration Suite, managed gateway.
2. Click **Edit** for the project you want to add the cross-reference parameters to.
3. Navigate to the **Cross Reference** step.

   The **Cross Reference Configuration** screen appears.
4. Choose a document type from the **Select Document Type** drop down box on the **Parameter** tab and click **Add**.

   The added document type appears in the list. You can edit the parameter values for the document type or remove it from the list.
5. Click the **Edit** icon to add or modify the parameter values.
6. To download the cXML payload and attach it to an invoice (when the invoice is created in the SAP ERP system), select the **Add cXML Payload As Attachment** check box.
7. Enter values for the parameters in the **TEST Environment** and **PROD Environment**.
8. Click **Save**.
9. Repeat steps 1 to 4 for each document type that you want to configure.
10. Click **Next** when values for all the document types are configured.

Table 35: Parameters for Each Transaction in SAP Integration Suite, managed gateway Configuration:

Document flow	Document type	Parameters	Description	Sample values
Advance Ship Notice	ShipNoticeRequest	HeaderTextID ASN	The header level attribute for advance ship notice configured on your ERP system. The value is available in the `TTXID` table.	F01
		LineTextID ASN	The line level attribute for advance ship notice configured on your ERP system. The value is available in the `TTXID` table.	F01
		DefaultLang	To maintain the default language when ERP or SAP Business Network fail to send language details both for inbound and outbound messages.	en

Document flow	Document type	Parameters	Description	Sample values
		HeaderTextID DDN	The header level attribute for the outbound delivery that you have configured on your ERP system. The value is available in the TTXID table.	001
		LineTextID DDN	The line-level attribute for the outbound delivery that you have configured on your ERP system. The value is available in the TTXID table.	001
Invoice Status Update	StatusUpdateRequest	Header TextID ISU	The header level attribute for invoice status update configured on your ERP system. The value is available in the `TTXID` table.	F01
		Line TextID ISU	The line level attribute for invoice status update configured on your ERP system. The value is available in the `TTXID` table.	F01
		Default Lang	To maintain the default language when ERP or SAP Business Network fail to send language details both for inbound and outbound messages.	en
Service Sheet Response	StatusUpdateRequest	Header TextID SES	The header level attribute for service sheet response configured on your ERP system. The value is available in the `TTXID` table.	F01
		Line TextID SES	The line level attribute for service sheet response configured on your ERP system. The value is available in the `TTXID` table.	F01
		DefaultLang	To maintain the default language when ERP or SAP Business Network fail to send language details both for inbound and outbound messages.	en
Order Confirmation	ConfirmationRequest	Ord Confirm HeaderTextID	The header level attribute for order confirmation configured on your ERP system. The value is available in the `TTXID` table.	F01
		Ord Confirm LineTextID	The line level attribute for order confirmation configured on your ERP system. The value is available in the `TTXID` table.	F01

Document flow	Document type	Parameters	Description	Sample values
		Ord Confirm DefaultLang	To maintain the default language when ERP or SAP Business Network fail to send language details both for inbound and outbound messages.	en
		Ord Confirm PortName	The port name for order confirmation.	SAP<SID> where SID is the ERP system ID.
		Ord Confirm LSEnabled	Enable logical system.	X (to enable) or leave it blank (to disable.
Order confirmation deviation approval	ApprovalRequest	Default Lang	To maintain the default language when SAP ERP or SAP Business Network fail to send language details for inbound messages.	en
		Header Text ID	The header level attribute for order confirmation deviation approval configured on your ERP system. The value is available in the `TTXID` table.	F15
		Item Text ID	The line level attribute for order confirmation deviation approval configured on your ERP system. The value is available in the `TTXID` table.	F04
Order Enquiry	OrderStatusRequest	Ord Enqr DefaultLang	To maintain the default language when ERP or SAP Business Network fail to send language details both for inbound and outbound messages.	en
Purchase Order	OrderRequest	PO HeaderTextID	This header level attribute for purchase order configured on your ERP system. The value is available in the `TTXID` table.	F01
		PO LineTextID	This line level attribute for purchase order configured on your ERP system. The value is available in the `TTXID` table.	F01
		PO DefaultLang	To maintain the default language when ERP or SAP Business Network fail to send language details both for inbound and outbound messages.	en
		SendManufacturerName	To send the manufacturer name from SAP ERP or SAP S/4HANA to the item details in SAP Business Network.	X

Document flow	Document type	Parameters	Description	Sample values
		defaultSupplier-PartID	The default value for Supplier Part ID. If a supplier part ID is configured at the `ItemID/SupplierPartID` path, that value is fetched, else the value configured for `defaultSupplierPartID` is fetched.	en
Schedule Agreement Release	OrderRequest	HeaderTextID SAR	This header level attribute for schedule agreement release configured on your ERP system. The value is available in the `TTXID` table.	L01
		SA LineTextID SAR	This line level attribute for schedule agreement release configured on your ERP system. The value is available in the `TTXID` table.	L01
		DefaultLang	To maintain the default language when ERP or SAP Business Network fail to send language details both for inbound and outbound messages.	en
Payment Proposal	PaymentProposalRequest	PPR HeaderTextID	The header level attribute for payment proposal configured on your ERP system. The value is available in the `TTXID` table.	F01
Service Sheet	ServiceEntryRequest	Buying and Invoicing Enabled	Enable to display the **Internal Order** field in the SAP Business Network.	X (to enable) or leave it blank (to disable).
		Header TextID SES Request	The header level attribute for service sheet configured on your ERP system. The value is available in the `TTXID` table.	F01
		Line TextID SES Request	The line level attribute for service sheet configured on your ERP system. The value is available in the `TTXID` table.	F01
		DefaultLang	To maintain the default language when ERP or SAP Business Network fail to send language details both for inbound and outbound messages.	en
Invoice	InvoiceDetailRequest	Invoice Header-TextID	The header level attribute for invoice configured on your ERP system. The value is available in the `TTXID` table.	0001
		Invoice LineTextID	The line level attribute for invoice configured on your ERP system. The value is available in the `TTXID` table.	001

Document flow	Document type	Parameters	Description	Sample values
		SendPayment-Terms	To send payment terms in invoice.	X (to enable) or leave it blank (to disable).
		SpecialHandlin-gAmount	Enable to display the unplanned delivery cost as the special handling cost in SAP Business Network. If you do not enable, the unplanned delivery cost is displayed as the shipping cost in SAP Business Network.	X (to enable) or leave it blank (to disable).
		Invoice Default-Lang	To maintain the default language when ERP or AN fail to send language details both for inbound and outbound messages.	en
		Invoice PortName	The port name for invoice.	SAP<SID> where SID is the ERP system ID.
		Invoice LSEna-bled	Enable logical system.	X (to enable) or leave it blank (to disable).
		ShowTaxDetail-sAtItemLevel	Enable to display tax details at the line-item level.	X (to enable) or leave it blank (to disable).
MM-Based ERP-Initiated Invoice	InvoiceDetailRequest	ERP-CC Header-TextID	The header level attribute for MM-based ERP-initiated invoice configured on your ERP system. The value is available in the `TTXID` table.	F01
		ERP-CC Default-Lang	To maintain the default language when ERP or SAP Business Network fail to send language details both for inbound and outbound messages.	en
Liability Transfer	LiabilityRequest	Liability Header-TextID	The header level attribute for liability transfer configured on your ERP system. The value is available in the `TTXID` table.	F01
		Liability Default-Lang	To maintain the default language when ERP or SAP Business Network fail to send language details both for inbound and outbound messages.	en
Remittance Advice	PaymentRemittance	Buyer Remit HeaderTextID	The header level attribute for remittance advice configured on your ERP system. The value is available in the `TTXID` table.	F01

Document flow	Document type	Parameters	Description	Sample values
		Buyer Remit DefaultLang	To maintain the default language when ERP or SAP Business Network fail to send language details both for inbound and outbound messages.	en
Payment Remittance Request	PaymentRemittance	Header TextID Payment Remittance	The header level attribute for payment remittance request configured on your ERP system. The value is available in the `TTXID` table.	F01
Product Activity Message	ProductActivityMessage	Prod Act DefaultLang	To maintain the default language when ERP or SAP Business Network fail to send language details both for inbound and outbound messages.	en
Component Consumption Request	ComponentConsumptionRequest	Comp Cons HeaderTextID	The header level attribute for component consumption request configured on your ERP system. The value is available in the `TTXID` table.	F01
		Comp Cons LineTextID	The line level attribute for component consumption request configured on your ERP system. The value is available in the `TTXID` table.	F01
		Comp Cons DefaultLang	To maintain the default language when ERP or SAP Business Network fail to send language details both for inbound and outbound messages.	en
Receipt Request	ReceiptRequest	Receipt DefaultLang	To maintain the default language when ERP or SAP Business Network fail to send language details both for inbound and outbound messages.	en
Component Acknowledgement	ReceiptRequest	Comp Acknw HeaderTextID	The header level attribute for component acknowledgement request configured on your ERP system. The value is available in the `TTXID` table.	F01
		Comp Acknw LineTextID	The line level attribute for component acknowledgement configured on your ERP system. The value is available in the `TTXID` table.	F01
Product Replenishment Message	ProductReplenishmentMessage	Prod Replenish HeaderTextID	The header level attribute for product replenishment message configured on your ERP system. The value is available in the `TTXID` table.	F01

Document flow	Document type	Parameters	Description	Sample values
		Prod Replenish DefaultLang	To maintain the default language when ERP or SAP Business Network fail to send language details both for inbound and outbound messages.	en

Setting Up Cross References for SAP Ariba Quote Automation with SAP Business Network [page 564]

Setting Up Cross-Reference Parameters for the FIInvoiceDetailRequest Document Type in SAP Integration Suite, Managed Gateway [page 566]

Defining Values in the Lookup Table [page 567]

Defining UOM Cross-Reference [page 568]

Setting Up Cross References for SAP Ariba Quote Automation with SAP Business Network

Use this procedure to set up cross references for SAP Ariba Quote Automation with SAP Business Network.

Context

You define parameters and their values for the `QuoteRequest` and `QuoteMessage` documents. You can define the values for both test and production environments.

SAP Integration Suite, managed gateway requires the following cross reference parameters for the `QuoteRequest` and `QuoteMessage` documents. You require the document type defined, before you set up the cross reference parameters for the `QuoteRequest` and `QuoteMessage` documents. These document types are available for you in SAP Integration Suite, managed gateway.

Procedure

1. Sign in to the SAP Integration Suite, managed gateway.
2. Click the **Navigation** button on the top left-corner and then click **My Configuration**.
3. Edit the project and then go to the **Cross Reference** section.
4. Choose the `QuoteRequest` document type in the **Document Type** field.
5. Do one of the following:
   - To edit an existing parameter, choose the parameter and click the **Edit** icon.
   - To add a new parameter, click **Add**. Enter the parameter names and associated values.

6. Enter the following parameters in the **TEST Environment** and **PROD Environment**:

   QuoteRequest

Parameter	Description	Example values
`HeaderTextID`	The header level attribute for the quote request that you have configured on your ERP system. The value is available in the TTXID table.	A01
`LineTextID`	The line-level attribute for the quote request that you have configured on your ERP system. The value is available in the TTXID table.	A01
`RFQDummyVendor`	Indicates whether a vendor is an Ariba Marketplace Vendor.	0000001000

7. Click **Save**.
8. Choose the `QuoteMessage` document type in the **Document Type** field.
9. Go to Step 5.
10. Enter the following parameters in the **TEST Environment** and **PROD Environment**:

    QuoteMessage

Parameter	Description	Example values
`Document Type of Purchase Order`	Specifies the document type for the purchase order.	• NB for standard purchase orders • FO for Framework order
`One Time Vendor`	Supports inviting one supplier to the RFQ event by creating a vendor in the SAP ERP system.	1000
`Plant`	Supports information about the plant or storage location.	3000
`GrossPrice`	Supports the gross pricing condition of the service item.	PB00

11. Click **Next** when values for all the document types have been configured.
12. Click **Save**.

Setting Up Cross-Reference Parameters for the FIInvoiceDetailRequest Document Type in SAP Integration Suite, Managed Gateway

Use this procedure to set up cross-reference parameters for the FIInvoiceDetailRequest document type in SAP Integration Suite, managed gateway.

Context

You can define the values for the parameters added for the `FIInvoiceDetailRequest` document type in the **Cross Reference Configuration** panel of the **Project Wizard** page of SAP Integration Suite, managed gateway. The transactions, document type, and the related parameters are added by the administrator. You can define the values for the parameters for both test and production environments.

Procedure

1. Sign in to SAP Integration Suite, managed gateway.
2. Do one of the following to navigate to the **Cross Reference** step of a project:
   - Create a new integration project and navigate to the **Cross Reference** step of a project.
   - On the **Home** page, click **Edit** for a project that you have already created and navigate to the **Cross Reference** step.

   The **Cross Reference Configuration** page appears.
3. On the **Parameter** tab, in the **Select Document Type** dropdown, choose **FIInvoiceDetailRequest** and click **Add**.

   The **FIInvoiceDetailRequest** document type appears in the list.
4. Under **Action**, click the **Edit** icon to add or modify the parameter values.

   The **FIInvoiceDetailRequest;0;cXML** dialog box where you can maintain the values for the parameters is displayed.
5. In the **FIInvoiceDetailRequest;0;cXML** dialog box, enter the following values for the test and the production environments, and click **Save**.

Field	Description
HeaderTextID	The header level attribute for the invoice configured on your SAP ERP system. The value is available in the TTXID table
Add cXML Payload As Attachment	(Optional) To download the cXML payload and attach it to the transaction to integrate (for example, consignment invoice or non-PO FI-invoice).

Field	Description
Invoice LSEnabled	Enter **X** for the partner type LS. The partner number is the logical system ID. Do not enter a value for the Partner type: `LI`. The partner number is the vendor ID.

Defining Values in the Lookup Table

Use this procedure to define values in the lookup table.

Context

SAP Ariba requires certain fields for the document types for every transaction that the administrator configures. SAP Ariba recommends that you maintain the fields supporting more than one value in the Cross Reference Lookup table of SAP Integration Suite, managed gateway. In SAP Integration Suite, managed gateway, you can specify customer values for the document types as required and map them to the values that SAP Ariba requires. You can also define the values for both test and production environments.

For example, to map the tax categories in the invoice to the customized tax categories in the buyer's SAP ERP or SAP S/4HANA, you can use the `InvoiceDetailRequest` document type and the `TaxCategoryMatchingType` template associated with it.

If the tax categories are not maintained in the **Lookup Table** using the `TaxCategoryMatchingType` template, SAP Integration Suite, managed gateway picks the tax category value from the standard mapping.

Procedure

1. Sign in to SAP Integration Suite, managed gateway.
2. Click **Edit** for the project where you want to add the cross-reference parameters.
3. Navigate to the **Cross Reference** step.

   The **Cross Reference Configuration** screen appears.
4. Click **Next** until you navigate to the **Lookup Table** tab.
5. Click the **Select to add document type** dropdown and select the required document type. For example, choose the `InvoiceDetailRequest` document type to map the tax categories in the invoice to the customized tax categories in buyer's SAP ERP or SAP S/4HANA.

   The document type and its associated template apears. For example, when you choose, the `InvoiceDetailRequest` document type, the `TaxCategoryMatchingType` templete associated with this document type appears.
6. Expand the template node.

7. Enter the SAP Ariba and customer values for the parameters in the **TEST Environment** and **PROD Environment**.

   The document types, template types, and sample values are listed in the following table:

Document type	Template Name	Sample SAP Ariba Value	Sample customer value
`InvoiceDetailRequest`	`TaxCategoryMatchingType`	sales	Enter customer value. For example, **SAL**
`FIInvoiceDetailRequest`	`TaxCategoryMatchingType`	sales	Enter customer value. For example, **SAL**

8. Click **Save and Close**.

Defining UOM Cross-Reference

Use this procedure to define UOM cross-reference.

Context

You can define the cross-reference mapping for unit of measurement (UOM) in Ariba solutions and SAP ERP. For each UOM, you can provide the corresponding SAP ERP value. You can also download a .csv format of the mapping, update it, and upload it back to SAP Integration Suite, managed gateway.

> **Note**
>
> It is mandatory to define at least one UOM value. Only the following characters are supported for UOM value: a-z, A-Z, 0-9, \, and _.

Procedure

1. Choose the **System ID** for which you want to configure UOM cross-reference values.
2. To define the UOM cross-reference values on the interface, perform the following steps:
   a. Enter the corresponding SAP ERP value for each SAP Ariba solution specific UOM.
   b. Click **Next**.
3. To use .csv format to upload the values, perform the following steps:
   a. Click **Download** and save the template.
   b. Define the corresponding SAP ERP value for each SAP Ariba solution specific UOM, and save the template.
   c. Click **Upload** and add the template to SAP Integration Suite, managed gateway.

Setting Up Cross References for SAP Ariba Procurement Solutions

Use this procedure to set up cross references for SAP Ariba Procurement solutions.

Context

You can define the values for parameters added for each transaction in the **Cross Reference** page. The transactions and the related parameters are added by the administrator. You can define the values for both test and production environments.

When setting up cross references, SAP Ariba recommends that you click the **Next** button until you reach the end of the process and then lastly, click **Confirm**. This step is applicable when you add or edit the parameter values for the cross references. When you click **Confirm**, SAP Integration Suite, managed gateway saves the cross references values. Ensure that you click **Confirm** before you save the changes on the Cross Reference page. If you only save the changes, without clicking **Confirm**, SAP Integration Suite, managed gateway does not save the cross references values.

Procedure

1. Sign in to the SAP Integration Suite, managed gateway.
2. Click **Edit** for the project you want to add the cross-reference parameters to.
3. Navigate to the **Cross Reference** step.

   The **Cross Reference Configuration** screen appears.
4. Choose a document type from the **Select Document Type** drop down box on the **Parameter** tab and click **Add**.

   The added document type appears in the list. You can edit the parameter values for the document type or remove it from the list.
5. Click the **Edit** icon to add or modify the parameter values.
6. To download the cXML payload and attach it to an invoice (when the invoice is created in the SAP ERP system), select the **Add cXML Payload As Attachment** check box.
7. Enter values for the parameters in the **TEST Environment** and **PROD Environment**.
8. Click **Save**.
9. Repeat steps 4 to 6 for each document type that you want to configure.
10. Click **Next** when values for all the document types are configured.

Table 36: Available Parameters for Each Transaction in CIG Configuration:

Document flow	Document type	Parameters	Description	Sample values
Purchase requisition	RequisitionExportRequest	SAP Document Type	SAP Purchase Requisition Document Type	NB
Purchase oder	PurchaseOrderExportRequest	Header Text ID	Purchase Order Header Text ID	F01
		Line Text ID	Purchase Order Item Text ID	F01
		SAP Document Type	SAP Purchase Order Document Type	NB
		SAP CC Doc Type	SAP Purchase Order Document Type for Carbon Copy Purchase Orders	AR
		Service Text ID	To support comments in the service child line item.	LTXT
Change purchase order	PurchaseOrderChangeExportRequest	Header Text ID	Purchase Order Header Text ID	F01
		Line Text ID	Purchase Order Item Text ID	F01
		Service Text ID	To support comments in the service child line item.	LTXT
Invoice	PaymentExportRequest	SAP FI Document Type	SAP non-PO FI Invoice Document Type Select the **SAP Non PO FI Post Indicator** to post non-PO (FI) invoice.	KR
		SAP Document Type	SAP Invoice Document Type	KA
	PaymentExportv2Request	SAP FI Document Type	SAP non-PO FI Invoice Document Type Select the **SAP Non PO FI Post Indicator** to post non-PO (FI) invoice.	KR
		SAP Invoice Document Type	SAP Invoice Document Type	KA
		SAP Non PO FI Post Indicator	SAP Non PO FI Post Indicator	true
		SAPSubCreDocType	SAP Subsequent Credit Document Type	RA
		SAPSubDebDocType	SAP Subsequent Debit Document Type	SU

Setting Up Cross-References for Stock Reservation

Use this procedure to set up cross-references for stock reservation.

Context

You can define values for the movement types for stock reservation on the Cross Reference page in SAP Integration Suite, managed gateway. If the values are not configured for the movement type, they would default to the following:

- Cost center- 201
- Internal order- 261
- Asset- 241
- Project Movement Type- 221

Procedure

1. Sign in to the SAP Integration Suite, managed gateway.
2. Click **Edit** for the project you want to add the cross-reference parameters.
3. Navigate to the **Cross Reference** step.

   The **Cross Reference Configuration** screen displayed.
4. Choose the **ReservationAsyncExportRequest** document type from the Select Document Type drop down box on the Parameter tab and click Add.

   The added document type appears in the list. You can edit the parameter values for the document type or remove it from the list.
5. Click the **Edit** icon to add or modify the parameter values.
6. Enter values for the following parameters in the TEST Environment and PROD Environment.
   - Asset Movement Type
   - Cost Center Movement Type
   - Project Movement Type
   - Internal Order Movement Type
7. Click **Save**.

Defining Values in the Lookup Table

Use this procedure to define values in the lookup table.

Context

You can maintain certain fields that SAP Ariba requires for document types per transaction. SAP Ariba recommends that you maintain fields that support more than one value in the Cross Reference Lookup tables of the SAP Integration Suite, managed gateway. The document types for each solution is configured by the administrator.

Buyer users can specify the different values that they require and map it to the value that SAP Ariba requires on the SAP Integration Suite, managed gateway. You can define the values for both test and production environments.

Procedure

1. Sign in to SAP Integration Suite, managed gateway.
2. Click **Edit** for the project you want to add the cross-reference parameters to.
3. Navigate to the **Cross Reference** step.

   The **Cross Reference Configuration** screen appears.
4. Click **Next** until you navigate to the **Lookup Table** tab.
5. Click the **Select to add document type** drop down and select a document type.

   The associated document type and its template is displayed.
6. Expand the template node.
7. Enter the SAP Ariba and customer values for the parameters in the **TEST Environment** and **PROD Environment**.
8. Click **Save and Close**.
9. Repeat steps 5 to 6 for each document type that you want to configure.
10. Click **Next** when values for all the required document types are configured.

Table 37: Available Templates for Each Document Type in SAP Integration Suite, managed gateway Configuration:

Document type	Template Name	Sample SAP Ariba Value	Sample customer value
RequisitionExportRequest	TaxOnCompany-Code	3000	**TRUE**
PurchaseOrderExportRe-quest	ProcurementCondi-tionType	Road Freight	**FRBI**
		Air Freight	**FRB2**
		Handling Charge	**ZB00**

Document type	Template Name	Sample SAP Ariba Value	Sample customer value
PurchaseOrderChangeExportRequest	ProcurementConditionType	Road Freight	**FRB3**
		Handling	**ZB00**
PaymentExportRequest	WithholdingTaxMap	WHTTAX1	**T1**
		WHTTAX2	**T2**
		WHTTAX3	**T3**
PaymentExportv2Request	WithholdingTaxMap	WHTTAX1	**T1**

Assigning Realm ID to Your Projects

Use this procedure to assign realm ID to your projects.

Context

You assign a realm name for your SAP Ariba solution for test and production environments.

Procedure

1. Sign in to the SAP Integration Suite, managed gateway.
2. Click **Edit** for the project you want to add the cross-reference parameters to.
3. Navigate to the **Cross Reference** step.

   The **Cross Reference Configuration** screen appears.
4. Click **Next** until you navigate to the **Realm ID** tab.

   The **Realm ID** tab displays the TEST system ID and PRODUCTION system ID.
5. Select a realm name for your SAP Ariba solution for test and production environments.
6. Click **Next**.

Setting Up Cross References for SAP Ariba Sourcing and SAP Ariba Contracts

As a buyer administrator, you need to define parameters and their values for the `QuoteRequest` and `QuoteMessage` documents in the **Cross Reference** page on SAP Integration Suite, managed gateway. You can define the values for both test and production environments.

When setting up cross references, SAP Ariba recommends that you click the **Next** button until you reach the end of the process and then lastly, click **Confirm**. This step is applicable when you add or edit the parameter values for the cross references. When you click **Confirm**, SAP Integration Suite, managed gateway saves the cross references values. Ensure that you click **Confirm** before you save the changes on the Cross Reference page. If you only save the changes, without clicking **Confirm**, SAP Integration Suite, managed gateway does not save the cross references values.

Setting Up Cross References for QuoteRequest [page 574]

Setting Up Cross References for QuoteMessage [page 575]

Setting Up Cross References for Contracts [page 581]

Setting Up Cross References for Scheduling Agreements [page 586]

Setting Up Cross References for Integrating Retail Master Data [page 587]

Setting Up Fields in the Lookup Table [page 588]

Setting Up Cross Reference for Direct Integration to Meet Data Residency Requirements [page 593]

Setting Up Cross References for QuoteRequest

Context

You define parameters and their values for the `QuoteRequest` document. You can define the values for both test and production environments.

SAP Ariba requires the following cross reference parameters for the `QuoteRequest` document. You require the document type defined, before you set up the cross reference parameters for the `QuoteRequest`.

Procedure

1. Sign in to the SAP Integration Suite, managed gateway.
2. Click the **Navigation** button on the top left-corner and then click **My Configuration**.
3. Edit the project and then go to the **Cross Reference** section.
4. Choose the `QuoteRequest` document type from the **Document Type** field.
5. Do one of the following:
    - To edit an existing parameter, choose the parameter and click the **Edit** icon.

- To add a new parameter, click **Add**. Enter the parameter names and associated values.

6. Enter the following parameters in the **TEST Environment** and **PROD Environment**:

   QuoteRequest

Parameter	Description	Example values
`RFQDummyVendor`	Indicates whether a vendor is an Ariba Marketplace Vendor.	0000001000
`Header text ID`	The header level attribute for the quote request that you have configured on your ERP system. The value is available in the TTXID table.	A01
`Line text ID`	The line-level attribute for the quote request that you have configured on your ERP system. The value is available in the TTXID table.	A01

7. Click **Save**.
8. Click **Next** when values for all the document types have been configured.

Setting Up Cross References for QuoteMessage

Context

You define parameter values for the `QuoteMessage` document. You can define the values for both test and production environments.

SAP Ariba requires the following cross reference parameters for the `QuoteMessage` document. You require the document type defined, before you set up the cross reference parameters for the `QuoteMessage`.

Procedure

1. Sign in to the SAP Integration Suite, managed gateway.
2. Click the **Navigation** button on the top left-corner and then click **My Configuration**.
3. Edit the project and then go to the **Cross Reference** section.
4. Choose the required document type from the **Document Type** field. For more information, please see the table after this procedure.
5. Do one of the following:
   - To edit an existing parameter, choose the parameter and click the **Edit** icon.
   - To add a new parameter, click **Add**. Enter the parameter names and associated values.

6. Enter the following parameters in the **TEST Environment** and **PROD Environment**:

Document Types

`QuoteMessageOrder`

Parameter	Description	Example values
`Account Assignment Category`	Supports the accounting information of the buyer organization.	F
`Asset`	Supports the asset information for the buyer organization.	100
`Asset Sub-number`	Supports the subnumber when the `AccountingSegment` ID information is set to A.	123
`Cost Center`	Supports information about the cost center.	0000009010
`WBS Element`	Supports the WBS element accounting information.	34232
`G/L Account`	Supports information about the general ledger accounts.	0000417000
`Order`	Supports the order ID. This field is required when the account assignment category is set to F.	00100060
`Gross Price for item`	Supports the gross pricing condition of the service item.	PB00
`Discount % on Gross`	Supports the details of the percentage of deductions available for the items. Applicable only when taxes and allowances are applied.	RA00
`Surcharge Abs on Gross`	Supports the summary amount of the additional charges in the `ContractMessage` document. Applicable only when taxes and allowances are applied.	ZB00
`Discount Abs on Gross`	Supports the details of the deductions available for the items. Applicable only when taxes and allowances are applied.	RB00
`Surcharge % on Gross`	Supports the `AdditionalCost` percentage amount in the `ContractMessage` document.	ZA00

Parameter	Description	Example values
	Applicable only when taxes and allowances are applied.	
HeaderTextID	Supports the long text description ID specified at the header-level.	K01
LineTextID	Supports the long text description ID specified at the line item level.	K01

QuoteMessageContract

Parameter	Description	Example values
Gross Price for item	Supports the gross pricing condition of the service item.	PB00
Discount % on Gross	Supports the details of the percentage of deductions available for the items. Applicable only when taxes and allowances are applied.	RA00
Discount Abs on Gross	Supports the details of the deductions available for the items. Applicable only when taxes and allowances are applied.	RB00
Surcharge % on Gross	Supports the AdditionalCost percentage amount in the ContractMessage document. Applicable only when taxes and allowances are applied.	ZA00
Surcharge Abs on Gross	Supports the summary amount of the additional charges in the ContractMessage document. Applicable only when taxes and allowances are applied.	ZB00
Header Text ID	Supports the long text description ID specified at the header-level.	K01
Item Text ID	Supports the long text description ID specified at the line item level.	K01

QuoteMessageContractServices

Parameter	Description	Example values
Account Assignment Category	Supports the accounting information of the buyer organization.	F

Parameter	Description	Example values
`Asset`	Supports the asset information for the buyer organization.	100
`Asset Sub-number`	Supports the subnumber when the `AccountingSegment` ID information is set to A.	123
`Cost Center`	Supports information about the cost center.	0000009010
`WBS Element`	Supports the WBS element accounting information.	34232
`G/L Account`	Supports information about the general ledger accounts.	0000417000
`Order`	Supports the order ID. This field is required when the account assignment category is set to F.	00100060
`Gross Price for item`	Supports the gross pricing condition of the service item.	PB00
`Discount % on Gross`	Supports the details of the percentage of deductions available for the items. Applicable only when taxes and allowances are applied.	RA00
`Discount Abs on Gross`	Supports the details of the deductions available for the items. Applicable only when taxes and allowances are applied.	RB00
`Surcharge % on Gross`	Supports the `AdditionalCost` percentage amount in the `ContractMessage` document. Applicable only when taxes and allowances are applied.	ZA00
`Surcharge Abs on Gross`	Supports the summary amount of the additional charges in the `ContractMessage` document. Applicable only when taxes and allowances are applied.	ZB00
`Gross price for Service Specification`	Supports the gross pricing condition of the service item.	PRS

Parameter	Description	Example values
`Discount Header %`	Supports the details of the percentage of deductions available for the outline items. Applicable only when taxes and allowances are applied.	01RH
`Discount Header abs.`	Supports the details of the deductions available for the outline items. Applicable only when taxes and allowances are applied.	0RHA
`Additional Charge HDR %`	Supports the `AdditionalCost` percentage amount for outline items in the `ContractRequest` document. Applicable only when taxes and allowances are applied.	0ZHP
`Additional Charge HDR abs.`	Supports the summary amount for the additional charges for outline items in the `ContractRequest` document. Applicable only when taxes and allowances are applied.	0ZHA
`Discount item %`	Supports the details of the percentage of deductions available for the service specification item. Applicable only when taxes and allowances are applied.	01RP
`Discount item abs.`	Supports the details of the deductions available for the service specification item. Applicable only when taxes and allowances are applied.	01RA
`Service Interface`	Supports redirection to the interface `QuoteMessageContractServices`. When the parameter is disabled, it defaults to the interface `QuoteMessageContract`.	X
`Additional Charge item %`	Supports the `AdditionalCost` percentage amount for outline items in the `ContractRequest` document. Applicable only when taxes and allowances are applied.	0ZHP

Parameter	Description	Example values
`Additional Charge item abs.`	Supports the summary amount in the `ContractRequest` document for the service specification item.	01ZA
`Header Text ID`	Supports the long text description ID specified at the header-level.	K01
`Item Text ID`	Supports the long text description ID specified at the line item level.	K01

`QuoteMessageSchedulingAgreement`

Parameter	Description	Example values
`Account Assignment Category`	Supports the accounting information of the buyer organization.	K
`Asset`	Supports the asset information for the buyer organization.	10001
`Cost Center`	Supports information about the cost center.	0000009010
`WBS Element`	Supports the WBS element accounting information.	34232
`G/L Account`	Supports information about the general ledger accounts.	0000417000
`Order`	Supports the order ID. This field is required when the account assignment category is set to U.	00100060
`Grossprice Typecode`	Supports the type of gross pricing condition for the line item.	PB00
`Discount % on Gross`	Supports the details of the percentage of deductions available for the items. Applicable only when taxes and allowances are applied.	RA00
`Surcharge Abs on Gross`	Supports the summary amount of the additional charges in the `QuoteMessage` document. Applicable only when taxes and allowances are applied.	ZB00

Parameter	Description	Example values
`Discount Abs on Gross`	Supports the details of the deductions available for the items. Applicable only when taxes and allowances are applied.	RB00
`Surcharge % on Gross`	Supports the `AdditionalCost` percentage amount in the `QuoteMessage` document. Applicable only when taxes and allowances are applied.	ZA00
`Header Text Typecode`	Supports the type of long text description specified at the header-level.	01
`Item Text Typecode`	Supports the type of long text description specified at the line item level.	01

7. Click **Save**.
8. Click **Next** when values for all the document types are configured.

Setting Up Cross References for Contracts

Context

You define parameters values for the `ContractRequest` and `ContractRequestServices` document types. You can define the values for both the test and production environments.

SAP Ariba requires the following cross reference parameters for the `ContractRequest` and `ContractRequestServices` document types. SAP Ariba sets up the document types and required parameters for you.

As an administrator, you set the values for the parameters while creating the project for the SAP Ariba Sourcing solution or on *My Configuration* page. Customers can maintain the required values for the parameters in the **CrossRefs** page by editing the project.

> ### Note
>
> When you create the project for the first time, you set up the parameters and lookup table values. However, you can still edit the project when the project is still in the testing status.

Procedure

1. Sign in to the SAP Integration Suite, managed gateway.
2. Do one of the following:
   - Edit the project and then go to the **Cross Reference** section.
   - Click **My Configuration** and then click **CrossRefs**.
3. On the **Parameters** page, choose the system ID for the SAP Ariba solution in the **Product(System Id)** field.
4. Do one of the following:
   - If you are setting up for the first time, you must add the document types. Choose the document type in the **Select Document Type** field and then click **Add**.
     Add each of the following document types from the **Document Type** field and set the values for the parameters:
     - `ContractRequest`
     - `ContractRequestServices`
   - To edit an existing parameter, choose the parameter and click the **Edit** icon.
5. Enter the values for the following parameters for the each of the document types in the **TEST Environment** and **PROD Environment**:

   ContractRequest - Contract request

Parameter	Description	Example values
`Discount % on Gross`	Supports the details of the percentage of deductions available for the items. Applicable only when taxes and allowances are applied.	RA00
`Gross Price for Item`	Supports the gross pricing condition of the service item.	PB00
`Contract Document Type`	Supports the type of SAP contract document to create quantity contract. The value of the type element is determined by the Document Category field for the contract workspace.	Quantity contract: MK
`Contract Document Type`	Supports the type of SAP contract document to create (value contract). The value of the type element is determined by the Document Category field for the contract workspace.	Value contract: WK
`Discount Abs on Gross`	Supports the details of the deductions available for the items. Applicable only when taxes and allowances are applied.	RB00

Parameter	Description	Example values
`Surcharge % on Gross`	Supports the `AdditionalCost` percentage amount in the `ContractRequest` document. Applicable only when taxes and allowances are applied.	ZA00
`Surcharge Abs on Gross`	Supports the summary amount for the additional charges in the `ContractRequest` document.	ZB00
`Header Text ID`	Supports the long text description specified at the header-level.	K01
`Item Text ID`	Supports the long text description specified at the line item-level.	K01
`Account Assignment Category`	Supports the accounting information of the buyer organization.	F
`Asset`	Supports the asset information for the buyer organization.	100
`Asset Sub-number`	Supports the subnumber when the `AccountingSegment` ID information is set to A.	123
`Cost Center`	Supports information about the cost center.	0000009010
`WBS Element`	Supports the WBS element accounting information.	34232
`G/L Account`	Supports information about the general ledger accounts.	0000417000
`Order`	Supports the order ID. This field is required when the account assignment category is set to F.	00100060

ContractRequestServices - Contract request with service items

Parameter	Description	Example values
`Additional Charge HDR abs.`	Supports the summary amount in the `ContractRequest` document for service outline items.	0ZHA

Parameter	Description	Example values
`Discount Header abs`	Supports the details of the deductions available for the service outline items. Applicable only when taxes and allowances are applied.	0RHA
`AccountAssignmentCategory`	Supports the accounting information of the buyer organization.	U
`Additional Charge HDR %`	Supports the `AdditionalCost` percentage amount in the `ContractRequest` document for service outline items. Applicable only when taxes and allowances are applied.	0ZHP
`Additional Charge item %`	Supports the `AdditionalCost` percentage amount in the `ContractRequest` document for the service specification item. Applicable only when taxes and allowances are applied.	01ZP
`Additional Charge item abs.`	Supports the summary amount in the `ContractRequest` document for the service specification item.	01ZA
`Discount item %`	Supports the details of the percentage of deductions available for the service specification item. Applicable only when taxes and allowances are applied.	01RP
`Discount item abs.`	Supports the details of the deductions available for the service specification item. Applicable only when taxes and allowances are applied.	01RA
`QuantityContract`	Supports the quantity type of contract document with service items.	MK
`ValueContract`	Specifies the document type (value contract) for the blanket purchase agreement.	WK
`HeaderTextID`	Supports the long text description ID specified at the header-level.	K01
`Item Text ID`	Supports the long text description ID specified at the line item level.	K01

Parameter	Description	Example values
`Discount % on Gross`	Supports the details of the percentage of deductions available for the items. Applicable only when taxes and allowances are applied.	RA00
`Discount Abs on Gross`	Supports the details of the deductions available for the items. Applicable only when taxes and allowances are applied.	RB00
`Gross Price for Item`	Supports the gross pricing condition of the service item.	PB00
`Surcharge Abs on Gross`	Supports the summary amount in the `ContractRequest` document.	ZB00
`Surcharge % on Gross`	Supports the `AdditionalCost` percentage amount in the `ContractRequest` document. Applicable only when taxes and allowances are applied.	ZA00
`grossprice Typecode`	Supports the type of gross pricing condition for the service item.	PB00
`servicegrossprice Typecode`	Supports the type of gross pricing condition for the service item.	PRS
`Discount Header %`	Supports the details of the percentage of deductions available for the items. Applicable only when taxes and allowances are applied.	01RH
`Gross Price for Service Specification`	Supports the gross pricing condition of the service item.	PRS
`Account Assignment Category`	Supports the accounting information of the buyer organization.	F
`Asset`	Supports the asset information for the buyer organization.	100
`Asset Sub-number`	Supports the subnumber when the `AccountingSegment` ID information is set to A.	123
`Cost Center`	Supports information about the cost center.	0000009010

Parameter	Description	Example values
`WBS Element`	Supports the WBS element accounting information.	34232
`G/L Account`	Supports information about the general ledger accounts.	0000417000
`Order`	Supports the order ID. This field is required when the account assignment category is set to F.	00100060

6. Click **Save**.
7. Click **Next** when values for all the document types are configured.

Setting Up Cross References for Scheduling Agreements

Context

You define parameters values for the document type, `SchedulingAgreement`. You can define the values for both the test and production environments.

SAP Ariba requires the following cross reference parameters for the document type, `SchedulingAgreement`. SAP Ariba sets up the document types and required parameters for you.

As an administrator, you set the values for the parameters while creating the project for the SAP Ariba Sourcing solution or on *My Configuration* page. Customers can maintain the required values for the parameters in the **CrossRefs** page by editing the project.

> **Note**
>
> When you create the project for the first time, you set up the parameters and lookup table values. However, you can still edit the project when the project is still in the testing status.

Procedure

1. Sign in to the SAP Integration Suite, managed gateway.
2. Do one of the following:
   - Edit the project and then go to the **Cross Reference** section.
   - Click **My Configuration** and then click **CrossRefs**.
3. On the **Parameters** page, choose the system ID for the SAP Ariba solution in the **Product(System Id)** field.
4. Do one of the following:
   - If you are setting up for the first time, you must add the document type, `SchedulingAgreement`. Choose the document type in the **Select Document Type** field and then click **Add**.

- To edit an existing parameter, choose the parameter and click the **Edit** icon.

5. Enter the values for the following parameters for the document type in the **TEST Environment** and **PROD Environment**:

Parameter	Description	Example values
`Account Assignment Category`	Supports the accounting information of the buyer organization.	F
`Asset`	Supports the asset information for the buyer organization.	100
`Asset Sub-number`	Supports the subnumber when the `AccountingSegment` ID information is set to A.	123
`Cost Center`	Supports information about the cost center.	0000009010
`WBS Element`	Supports the WBS element accounting information.	34232
`G/L Account`	Supports information about the general ledger accounts.	0000417000
`Order`	Supports the order ID. This field is required when the account assignment category is set to F.	00100060
`Header Text Typecode`	Supports the type of long text description specified at the header-level.	01
`Item Text Typecode`	Supports the type of long text description specified at the line item level.	01

6. Click **Save**.
7. Click **Next** when values for all the document types are configured.

Setting Up Cross References for Integrating Retail Master Data

Context

You must set up cross reference for integrating retail master data with SAP Ariba strategic Sourcing Suite. You can define the values for both test and production environments.

Procedure

1. Sign in to SAP Integration Suite, managed gateway.
2. Click the **Navigation** button on the top left-corner and then click **My Configuration**.
3. Edit the project and then go to the **Cross Reference** section.
4. Choose the `ArticleMaster` document type from the **Document Type** field.
5. Do one of the following:
   - To edit an existing parameter, choose the parameter and click the **Edit** icon.
   - To add a new parameter, click **Add**. Enter the parameter names and associated values.
6. Enter the following parameters for the `ArticleMaster` with or without service line items in the **TEST Environment** and **PROD Environment**:

Parameter	Description	Example values
`BOM Usage`	Supported BOM Usage areas.	3
`Port name`	Enter the name of the port that you have configured.	<Sample port name>
`EAN category`	Enter the supported EAN category.	IE

Setting Up Fields in the Lookup Table

Context

You can maintain certain fields that SAP Ariba requires for some document types. SAP Ariba recommends that you maintain fields that support more than one value in the **My Configurations** > **Cross Refs** > **Lookup table** on the SAP Integration Suite, managed gateway portal.

For example, you have a tax code with more than one tax category. You can define the tax code field that supports more than one category for a document type in the **My Configurations** > **Cross Refs** > **Lookup table**.

Buyers can specify the different values that they require and map it to the value that SAP Ariba requires on the SAP Integration Suite, managed gateway.

You can define condition and their values for the `QuoteRequest`, `QuoteMessage`, `QuoteMessageSchedulingAgreement`, `ContractRequest`, `ContractRequestServices`, and `SchedulingAgreement` documents.

SAP Ariba recommends that you maintain values for the following fields in the *Lookup table*. The Lookup table is also applicable for customers using Automated RFQ processing with SAP Business Network and SAP Business Network Discovery. You can define the values for both test and production environments.

SAP Ariba sets up the document types and required parameters for you. As an administrator, you set the values for the parameters and lookup table while creating the project for SAP Ariba Sourcing or on *My Configuration* page. Customers can maintain the required values for the parameters and **CrossRefs** entries by editing the project.

> **Note**
>
> When you create the project for the first time, you set up the parameters and lookup table values. However, you can still edit the project when the project is still in the testing status.

Procedure

1. Sign in to the SAP Integration Suite, managed gateway.
2. Do one of the following:
   - Edit the project and then go to the **Cross Reference** section.
   - Click **My Configuration** and then click **CrossRefs**.
3. On the **Lookup Table** page, choose the system ID for the SAP Ariba Sourcing solution in the **Product(System Id)** field.
4. Do one of the following:
   - If you are setting up for the first time, you must add the values for the required document types. Click **Select to add document Type** to add the look up parameter values for each of the following document types:
     - `QuoteRequest`
     - `QuoteMessageContractServices`
     - `QuoteMessageSchedulingAgreement` - quote message documents containing line items for a scheduling agreement

     If you use SAP Ariba Contracts, choose the document type for each of the following:
     - `ContractRequest`
     - `ContractRequestServices`
     - `SchedulingAgreement`
   - To edit an existing parameter, choose the parameter and click the **Edit** icon.
5. Enter the following parameters for the `QuoteRequest`, `QuoteMessageSchedulingAgreement`, `ContractRequest`, `ContractRequestServices`, `SchedulingAgreement`, and `QuoteMessageContractServices` in the **TEST Environment** and **PROD Environment**:

Table 38: QuoteRequest

Document Type / Name	Lookup Name	Ariba Value	Customer Value
`QuoteRequest`	`QuoteRequestMatchingType`	**public** Enter **AN** to specify any public supplier. The supplier must exist in SAP Business Network.	Enter a value to specify any public supplier. The supplier must exist in SAP Business Network. For example, **AN**.

Document Type / Name	Lookup Name	Ariba Value	Customer Value
		approvedVendorOnly Enter **PRI** to specify suppliers that exist on SAP Business Network.	Specify suppliers that exist on SAP Business Network. The supplier must be an approved supplier with the buyer. For example, **PRI**.
		invitationOnly Enter **DIR** to specify suppliers that are invited to join the RFQ posting.	Specify suppliers that are invited to join the RFQ posting. For example, **DIR**.

Table 39: QuoteMessageSchedulingAgreement

Document Type / Name	Lookup Name	Ariba Value	Customer Value
QuoteMessageSchedulingAgreement	PricingConditions	**PRICE** Enter the gross pricing condition of the item.	Enter the gross pricing condition of the item. For example, **PB00**.
		SURCHARGE Enter the additional cost amount. Applicable only when taxes and allowances are applied.	Enter the additional cost amount. Applicable only when taxes and allowances are applied. For example, **ZB00**.
		DISCOUNT Enter the deductions available for the items. Applicable only when taxes and allowances are applied.	Enter the deductions available for the items. Applicable only when taxes and allowances are applied. For example, **RB00**.

Table 40: QuoteMessageContractServices

Document Type / Name	Lookup Name	Ariba Value	Customer Value
QuoteMessageContractServices	PricingConditions	**PRICE** Enter the gross pricing condition of the item.	Enter the gross pricing condition of the item. For example, **PB00**.
		SURCHARGE Enter the additional cost amount. Applicable only when taxes and allowances are applied.	Enter the additional cost amount. Applicable only when taxes and allowances are applied. For example, **ZB00**.

Document Type / Name	Lookup Name	Ariba Value	Customer Value
		DISCOUNT Enter the deductions available for the items. Applicable only when taxes and allowances are applied.	Enter the deductions available for the items. Applicable only when taxes and allowances are applied. For example, **RB00**.

Table 41: ContractRequestServices

Document Type / Name	Lookup Name	Ariba Value	Customer Value
ContractRequestServices	PricingConditions	**PRICE** Enter the gross pricing condition of the item.	Enter the gross pricing condition of the item. For example, **PB00**.
		SURCHARGE Enter the additional cost amount. Applicable only when taxes and allowances are applied.	Enter the additional cost amount. Applicable only when taxes and allowances are applied. For example, **ZB00**.
		DISCOUNT Enter the deductions available for the items. Applicable only when taxes and allowances are applied.	Enter the deductions available for the items. Applicable only when taxes and allowances are applied. For example, **RB00**.
	SAPDocType	**quantity** Enter the document type for the quantity-based contract. The value of the type element is determined by the **Document Category** field for the contract workspace.	Enter **MK** to specify the quantity-based contract.
		value Enter the document type for the value-based contract. The value of the type element is determined by the **Document Category** field for the contract workspace.	Enter **WK** to specify the value-based contract

Table 42: ContractRequest

Document Type / Name	Lookup Name	Ariba Value	Customer Value
`ContractRequest`	`SAPDocType`	**quantity** Enter the document type for the quantity-based contract. The value of the type element is determined by the **Document Category** field for the contract workspace.	Enter **MK** to specify the quantity-based contract.
		value Enter the document type for the value-based contract. The value of the type element is determined by the **Document Category** field for the contract workspace.	Enter **WK** to specify the value-based contract

Table 43: SchedulingAgreement

Document Type / Name	Lookup Name	Ariba Value	Customer Value
`SchedulingAgreement`	`PricingConditions`	**PRICE** Enter the gross pricing condition of the item.	Enter the gross pricing condition of the item. For example, **PB00**.
		SURCHARGE Enter the additional cost amount. Applicable only when taxes and allowances are applied.	Enter the additional cost amount. Applicable only when taxes and allowances are applied. For example, **ZB00**.
		DISCOUNT Enter the deductions available for the items. Applicable only when taxes and allowances are applied.	Enter the deductions available for the items. Applicable only when taxes and allowances are applied. For example, **RB00**.
	`SAPDocType`	**LP** The value of the type element is determined by the **Document Category** field for the contract workspace.	Enter **LP** for the document category, `SchedulingAgreement` created on SAP Ariba Contracts.

Document Type / Name	Lookup Name	Ariba Value	Customer Value
		LPA The value of the type element is determined by the **Document Category** field for the contract workspace.	Enter **LPA** for the document category, `SchedulingAgreement` created on SAP Ariba Contracts.

6. Click **Save**.

Setting Up Cross Reference for Direct Integration to Meet Data Residency Requirements

Context

You must maintain values for the `Enable System ID in Sourcing Integration Bypassing AN` parameter in the `QuoteRequest`, `PurchasingContractConfirmation(ContractStatusUpdateRequest)`, and `QuoteMessageConfirmation(ContractStatusUpdateRequest)` documents to include the `System ID` in the cXML. You can define the values for both test and production environments.

You must have the document type defined before you set up the cross reference parameters for the `QuoteRequest`, `PurchasingContractConfirmation` and `QuoteMessageConfirmation` documents. These document types are available in SAP Integration Suite, managed gateway.

Procedure

1. Sign in to the SAP Integration Suite, managed gateway.
2. Click **Edit** for the project you want to add the cross reference parameters.
3. Navigate to the **Cross Reference** tab.

   The **Cross Reference Configuration** screen appears.
4. Navigate to the **Parameter** tab and choose an outbound document type from the **Select Document Type** dropdown. Click **Add**.

   The added document type appears in the list. You can edit the parameter values for the document type or remove it from the list.
5. Click the ✎ icon to add or modify the parameter values.
6. Enter values for the parameters in the **TEST Environment** and **PROD Environment**.
7. Click **Save**.
8. Repeat steps 4 to 7 for each document type that you want to configure.
9. Click **Next** when values for all the document types are configured.

Table 44: Parameters for Each Transaction in SAP Integration Suite, managed gateway configuration:

Document type	Parameters	Description	Sample values
`QuoteRequest`	`Enable System ID in Sourcing Integration Bypassing AN`	To enable bidirectional data flow between SAP ERP or SAP S/4HANA and SAP Ariba strategic sourcing solutions, bypassing SAP Business Network.	**X**(to enable) or leave it blank (to disable)
`PurchasingContractConfirmation`	`Enable System ID in Sourcing Integration Bypassing AN`	To enable bidirectional data flow between SAP ERP or SAP S/4HANA and SAP Ariba strategic sourcing solutions, bypassing SAP Business Network.	**X**(to enable) or leave it blank (to disable)
`QuoteMessageConfirmation`	`Enable System ID in Sourcing Integration Bypassing AN`	To enable bidirectional data flow between SAP ERP or SAP S/4HANA and SAP Ariba strategic sourcing solutions, bypassing SAP Business Network.	**X**(to enable) or leave it blank (to disable)

10. Click **Save**.
11. Click **Next** when values for all the document types are configured.

Related Information

Support for Direct Integration to Meet Data Residency Requirements
Prerequisites

Setting Up Cross References for Service Requisitions and Service Orders

Context

You define parameters values for the `ContractRequest` and `ContractRequestServices` document types. You can define the values for both the test and production environments.

SAP Ariba requires the following cross reference parameters for the `ContractRequest` and `ContractRequestServices` document types. SAP Ariba sets up the document types and required parameters for you.

As an administrator, you set the values for the parameters while creating the project for the SAP Ariba Sourcing solution or on *My Configuration* page. Customers can maintain the required values for the parameters in the **CrossRefs** page by editing the project.

> **Note**
>
> When you create the project for the first time, you set up the parameters and lookup table values. However, you can still edit the project when the project is still in the testing status.

Procedure

1. Sign in to the SAP Integration Suite, managed gateway.
2. Do one of the following:
   - Edit the project and then go to the **Cross Reference** section.
   - Click **My Configuration** and then click **CrossRefs**.
3. On the **Parameters** page, choose the system ID for the SAP Ariba solution in the **Product(System Id)** field.
4. Do one of the following:
   - If you are setting up for the first time, you must add the document types. Choose the document type in the **Select Document Type** field and then click **Add**.
     Add each of the following document types from the **Document Type** field and set the values for the parameters:
     - **PurchaseRequisitionRequest**
     - **PurchaseRequisitionResponse**
     - **PurchaseOrderRequest**
     - **PurchaseOrderResponse**
   - To edit an existing parameter, choose the parameter and click the **Edit** icon.
5. Enter the values for the following parameters for the each of the document types in the **TEST Environment** and **PROD Environment**:

Parameter	Description
`EnableVendorIDPadding`	Adds leading zeros upto 10 characters for numeric vendor IDs.
`Days`	Allows the calculation of the delivery date. For instance, if Days is set to 3, then three days are added to the delivery date in the mapping file.

6. Click **Save**.
7. Click **Next** when values for all the document types are configured.

Customization

Customization for Supported SAP Business Network Transactions [page 596]

Customization for SAP Ariba Procurement Solutions [page 608]

Customization for SAP Ariba Strategic Sourcing Suite [page 614]

About Enhancement to Extension Structures to Customize Transactions [page 619]

Customization for Supported SAP Business Network Transactions

If you have added custom parameters or have modified existing parameters in your SAP ERP or SAP S/4HANA system, you can synchronize it with SAP Business Network by mapping it to SAP Integration Suite, managed gateway.

Perform the following steps to help you synchronize custom parameters:

1. Implement the customer exit or BAdI to populate the extended custom values.
2. Contact SAP Ariba Support to help you synchronize custom parameters using custom XSLT mappings.

> **Note**
>
> Your custom fields or parameters on SAP ERP or SAP S/4HANA can be mapped to SAP Integration Suite, managed gateway via custom XSLT field-to-field mapping without any conditions.
>
> For any conditional mapping requirements, use BAdIs. If you are using a middleware you can perform conditional mappings within the middleware too.

The extended custom values that you populate would have the following structure:

Table 45: Extended Structure for Custom Parameters

Field Name	Data Type	Length
OBJKEY		
OBJNAME		
FIELDNAME		
FIELDVALUE		

Implementing BAdI for Supported Transactions [page 597]

Implementing the BAdI for Quality Notifications [page 607]

Implementing BAdI for Supported Transactions

Context

You can use a BAdI to enhance the functionality of a transaction. To implement BAdI for supported transactions, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Business Add-Ins (BAdIs)**.
4. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.

   All the BAdIs supported for SAP Business Network transactions are listed under **Business Add-Ins (BAdIs)**.

Transaction	BAdI	Description	Method
Component acknowledgment	ARBCIG_BADI_COMPONENT_ACK	To enhance structures for the Component Receipt message. Use this BAdI for processing enhancements before or after sending the message to SAP Business Network.	• PRE_PROCESSING_POD: To preprocess proof of delivery. • POST_PROCESSING_POD: To postprocess proof of delivery. • PRE_PROCESSING_GM: To preprocess goods movement. • POST_PROCESSING_GM: To postprocess goods movement.

Transaction	BAdI	Description	Method
Component consumption request	`ARBCIG_BADI_COMPNT_CONSUMPTION`	To enhance structures for the Component Consumption message. Use this BAdI for processing enhancements before or after sending the message to SAP Business Network.	• `REAL_TIME_CONS_PRE_PROCESS`: To preprocess real-time consumption. • `REAL_TIME_CONS_POST_PROCESS`: To postprocess real-time consumption. • `MANUF_VISIBLE_PRE_PROCESS`: To preprocess manufacturing visibility. • `MANUF_VISIBLE_POST_PROCESS`: To postprocess manufacturing visibility. • `DEFINE_CUST_SPEC_PROCESSING`: (Optional) To process incoming cXML messages by skipping standard processing logic.
Credit memo cancellation	`ARBCIG_CREDIT_MEMO_CANCEL`	To modify the credit memo cancellations sent from SAP Business Network. Supplier create the credit memos against the returns in purchase orders.	• `CANCEL_PRE_PROCESS`: To preprocess credit memo cancellation. • `CANCEL_POST_PROCES`: To postprocess credit memo cancellation.

Transaction	BAdI	Description	Method
Invoice status update	ARBCIG_INVOICESTATUSUPDATE	To customize invoice status update message.	• CHANGE_PROCESS_BSIK: To modify invoice status update message for open invoices. • CHANGE_PROCESS_BSAK: To modify invoice status update message for closed invoices. • CHANGE_PARTIALPAID: To modify invoice status update message for partially paid invoices. • CHANGE_ISU_STATUS: To modify invoice status update message for fully paid invoices. • CHANGE_REVERSED: To modify invoice status update message for reversed invoices. • CHANGE_INSERTTABLE: To modify data before inserting into invoice status update table. • CHECK_CHANGED: To check change in fields of a changed invoice. • CHANGE_REJECTED: To modify invoice status update message for rejected invoices. • CHANGE_PARKED: To modify invoice status update message for parked invoices. • PUBLISH_BEFORE_SEND: To modify invoice status update message before sending to SAP Business Network. • PUBLISH_AFTER_SEND: To post-process the

Transaction	BAdI	Description	Method
			activities for invoice status update.
Liability transfer	ARBCIG_LIABILITY_INVOICE	To customize changes to be made while transferring the payment liability to the funder (financing company).	• PRE_PROCESS: To preprocess liability transfer. • POST_PROCESS: To postprocess liability transfer.
Payment proposal	ARBCIG_PP_UPDATE	To customize payment proposal message.	• READ_INVOICE: To modify the read invoice details. • CHANGE_INVOICE_DETAILS: To modify invoice details by comparing the read invoice and the payment proposal created for them. • READ_PARTIAL_PAID_INVOICE: To modify partially paid invoice details that are read. • CHANGE_PARTIAL_PAID_INVOICE: To modify partially paid invoice details by comparing the read invoice and the payment proposal created for them. • PUBLISH_PAYMENT_PROPOSAL: To modify payment proposal before sending to SAP Business Network. • CHANGE_PP_TAX: To modify tax information in the payment proposal. • PUBLISH_BEFORE_SEND: Modify proposal before sending to Ariba. • PUBLISH_AFTER_SEND: To post-process the proposal after sending to SAP Business Network.

Transaction	BAdI	Description	Method
Product activity message	ARBCIG_PRODUCT_ACTIVITY	To customize product activity message.	• UPDATE_PROA_DETAILS: To modify product activity message before sending data to SAP Business Network. • PROA_DETAILS_AFTER_POST: To post-process the activities of product activity details.
Product replenishment message	ARBCIG_SMI_REPLENISHMENT	To customize product replenishment message.	• SCH_LINES_PRE_PROCESS: To preprocess schedule lines. • SCH_LINES_POST_PROCESS: To postprocess schedule lines. • PROCESS_REPLENISHMT: To process replenishment message other than SMI.

Transaction	BAdI	Description	Method
Receipt request	ARBCIG_RECPT_UPDATE	To enhance the receipt transaction as required. Available in the ARBCIG_RECEIPT_PUBLISH program.	• READ_RECEIPT_DATA: To modify receipt data that are read. • UPDATE_RECEIPT_DETAILS: To modify receipt details returned from BAPI_GOODSMVT_GETDETAIL. • PUBLISH_RECEIPT_HEADER: To modify receipt header data before sending to SAP Business Network. • PUBLISH_RECEIPT_DETAIL: To modify receipt line item details before sending to SAP Business Network. • PUBLISH_PRE_RECEIPT: To pre-process the item details before sending to proxy. • PUBLISH_POST_RECEIPT_DETAIL: To post-process the item details after sending to proxy.
Remittance advice	ARBCIG_REMITTANCE_ADVICE	To customize the remittance advice that you receive from the Supply Chain Financing provider through SAP Business Network.	• PRE_PROCESS: To pre-process remittance advice before sending to SAP ERP or SAP S/4HANA system. • POST_PROCESS: To postprocess remittance advice after sending to SAP ERP or SAP S/4HANA system.
Service sheet	ARBCIG_SES_CREATE	To customize service sheet.	UPDATE_SES_BAPITABLES: To modify service sheet information before posting it.

Transaction	BAdI	Description	Method
Service sheet response	ARBCIG_SESR_UPDATE	To enhance structures for the service sheet reponse. Use this BAdI for processing enhancements before sending the messages. Use the SESR_ANparameter.	• CHANGE_SESR_DATA: To modify service sheet response details before sending to SAP Business Network. • POST_CHANGE_SESR_DATA: To post-process the activities of service sheet response.
Advance ship notice	ARBCIG_ADVANCE_SHIPMENT_NOTICE	To customize advance ship notice.	• PRE_PROCESSING: To preprocess inbound delivery for advance shipment notice. • POST_PROCESSING: To postprocess inbound delivery for advance shipment notice.
Ship notice request	ARBCIG_SHIP_NOTICE_REQUEST_OUT	To customize ship notice request.	• PRE_PROCESSING: To preprocess ship notice request. • POST_PROCESSING: To post-process the activities of outbound messages.
Quality Notification	ARBCIG_QUALITY_NOTIFICATION	To customize the inbound and oubound quality notifications.	• PRE_PROCESSING_INBOUND: Pre Processing inbound • POST_PROCESSING_INBOUND: Post Processing inbound • PRE_PROCESSING_OUTBOUND: Pre Processing outbound • POST_PROCESSING_OUTBOUND: Post Processing outbound

5. Expand the required transaction and click **IMG-Activity** for the BAdI to commence BAdI implementation.

If you want to customize the values of the parameters in your transactions, follow the above steps and use the following BAdI:

Transaction	BAdI	Description	Method
Parameter maintenance	**ARBCIG_PARAM_CHANGE**	To customize values during parameter maintenance.	CHANGE_VALUES: To modify parameter values before sending to SAP Ariba solutions.

Populating Extended Segment Values for Proxy Flows [page 604]

Populating Extended Segment Values for IDoc Flows [page 605]

Populating Extended Segment Values for Proxy Flows

To synchronize the customized parameters of proxy flows with SAP Business Network, you must populate extended segment values using BAdIs.

Context

For example, to add custom values for invoice status update, prepare the structure as specified in the following table.

Table 46: Sample Extended Structure for Custom Parameters

Field Name	Data Type
InvoiceStatusUpdate	Char
Invoice Number	Char
Street	Char
25	Char

Perform the following steps to populate the extension structure:

Procedure

1. Follow the steps in Implementing BAdI for Supported Transactions [page 597].
2. Give the implementation name and implementing class name starting with **Z**.
3. Enter the package name and save the implementation.
4. Double-click the **Implementation Class** field.

5. Implement the method **IF_ARBCIG_INVOICESTATUSUPDATE~PUBLISH_BEFORE_SEND**.

```
************* Extension Framework *********************************
    DATA : lw_invoice_item      TYPE ARBCIG_INV_STATUS_UPDAT_ITM,
           lw_invoice_extension TYPE ARBCIG_ARIBA_EXTN.
    LOOP AT it_item_in INTO lw_invoice_item.
      lw_invoice_extension-object_key = 'Invoice Number'.
      lw_invoice_extension-object_name = 'InvoiceStatusUpdate'.
      lw_invoice_extension-field_name = 'Street'.
      lw_invoice_extension-field_value  = '25'.
      APPEND lw_invoice_extension TO lw_invoice_item-ariba_extension.
    ENDLOOP.
************** End of extension framework *************************
```

6. Click **Activate**.

Populating Extended Segment Values for IDoc Flows

Context

To synchronize the customized parameters of IDoc flows with SAP Business Network, you must populate extended segment values using customer exits. For example, to add custom values for purchase order, prepare the header and the line item structures as specified in the following tables.

Table 47: Sample Extended Header Structure for Custom Parameters of Purchase Order

Field Name	Data Type
PO	Char
lw_e1edk01-belnr	Char
Tel_Number	Char
1-234-567-9999	Char

Table 48: Sample Extended Line Item Structure for Custom Parameters of Purchase Order

Field Name	Data Type
PO	Char
lw_e1edp01-posex	Char
Description	Char
Test Component	Char

Perform the following steps to populate the extension structure:

Procedure

1. Navigate to the customer exit for transaction Purchase Order using the transaction code SPRO.
2. Enter the exit name, for example **EXIT_SAPLEINM_002**, and click **Display**.
3. Double-click the Z include in the customer exit code.
4. Add the code to populate the extension structures at header and line level. For example,

```
*************************Extension
Framework**********************************
* Code for Extension framework
DATA : lw_int_edidd TYPE edidd,
       lw_extension TYPE E1ARBCIG_HDREXTN,
       lw_e1edk01   TYPE e1edk01,
       lw_e1edp01   TYPE e1edp01.
IF control_record_out-idoctp = 'ARBCIG_ORDERS'.
  READ TABLE int_edidd INTO lw_int_edidd WITH KEY segnam = 'E1ARBCIG_HDREXTN'.
  IF sy-subrc <> 0.
    READ TABLE int_edidd INTO lw_int_edidd WITH KEY segnam = 'E1EDK01'.
    IF sy-subrc = 0.
      MOVE lw_int_edidd-sdata TO lw_e1edk01.
      lw_extension-objkey     = lw_e1edk01-belnr.
      lw_extension-objname    = 'PO'.
      lw_extension-fieldname  = 'TEL_NUMBER'.
      lw_extension-fieldvalue = '1-234-567-9999'.
      MOVE lw_extension TO lw_int_edidd-sdata.
      lw_int_edidd-segnam = 'E1ARBCIG_HDREXTN'.
      INSERT lw_int_edidd INTO int_edidd INDEX sy-tabix + 1.
    ENDIF.
  ENDIF.
READ TABLE int_edidd INTO lw_int_edidd WITH KEY segnam ='E1ARBCIG_ITMEXTN'.
  IF sy-subrc <> 0.
    READ TABLE int_edidd INTO lw_int_edidd WITH KEY segnam = 'E1EDP01'.
    IF sy-subrc = 0.
      MOVE lw_int_edidd-sdata TO lw_e1edp01.
      CONCATENATE lw_e1edk01-belnr lw_e1edp01-posex INTO lw_extension-objkey.
*      lw_extension-objkey     = lw_e1edk01-belnr
      lw_extension-objname    = 'PO'.
      lw_extension-fieldname  = 'DESCRIPTION'.
      lw_extension-fieldvalue = 'test component'.
      MOVE lw_extension TO lw_int_edidd-sdata.
      lw_int_edidd-segnam = 'E1ARBCIG_ITMEXTN'.
      INSERT lw_int_edidd INTO int_edidd INDEX sy-tabix + 1.
    ENDIF.
  ENDIF.
ENDIF.
** End of code for extension framework
```

5. Click **Activate**.

Implementing the BAdI for Quality Notifications

Context

You can use the following BAdI to enhance the quality notifications documents sent or received from SAP Business Network and SAP Integration Suite, managed gateway.

Procedure

1. Run the transaction code SPRO.

   The Customizing: Execute Project page appears.
2. Click **SAP Reference IMG**.

   The Display IMG page appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Business Add-Ins (BAdI)** > **BAdIs for Quality Notification** .

   The **Business Add-Ins** screen appears.
4. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: `ARBCIG_QUALITY_NOTIFICATION`

   The following table lists methods that you can implement:

Method Name	Description
`PRE_PROCESSING_INBOUND`	To process the inbound quality notifications received in the SAP ERP system.
`POST_PROCESSING_INBOUND`	To process the inbound quality notifications before sending from the SAP ERP system.
`PRE_PROCESSING_OUTBOUND`	To process the outbound quality notifications documents before sending from the SAP ERP system. **Note** If you use the `QN_STAT_FILTER` parameter to prevent specific quality notification statuses from triggering outbound proxies, implement the `ARBCIG_QUALITY_NOTIFICATION` BAdI and the `PRE_PROCESSING_OUTBOUND` method to control the **ActionCode** as required. Alternatively, use the `ARBCIG_RESEND_QUALITY_NOTIF` program to

Method Name	Description
	resend the quality notification to SAP Business Network with the desired **ActionCode**.
POST_PROCESSING_OUTBOUND	To process the outbound quality notifications documents after sending from the SAP ERP system.

Customization for SAP Ariba Procurement Solutions

Implementing BAdI for Supported Transactions in SAP Ariba Procurement Solutions [page 608]

Implementing BAdI for Supported Transactions in SAP Ariba Procurement Solutions

Context

To implement BAdI for supported transactions in SAP Ariba Procurement solutions, perform the following steps:

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Procurement Integration** > **Business Add-Ins(BAdIs)** and select the flow for which you want to implement BAdI.
4. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.

   All the BAdIs supported for SAP Ariba Procurement solutions transactions are listed under **Business Add-Ins (BAdIs)**.

Transaction	BAdI	Description	Method
Purchase Contract	ARBCIG_CONTRACTDET	To enhance or modify data for the contract. Use this BAdI for processing enhancements after sending the message to SAP Ariba Procurement solutions.	• MAP_PREPROCESSING - Process the values before importing purchase contracts. This is available only for web services. • MAP_POSTPROCESSING - Process the values after importing purchase contracts. This is available only for web services. • POSTPROCESSING: To modify contract information after posting it.
	S4CINT_CONTRACTDET	To customize the logic to import purchase contracts from SAP ERP to SAP Ariba Procurement solutions using web services.	• MAP_PREPROCESSING - Process the values before importing purchase contracts. This is available only for web services. • MAP_POSTPROCESSING - Process the values after importing purchase contracts. This is available only for web services.
Derive accounting export	ARBCIG_DERIVATION	Use this BAdI for processing enhancements before or after sending the message to SAP Ariba Procurement solutions.	PREPROCESSING : This method is called before processing the standard BAPI POSTPROCESSING : This method is called after processing the standard BAPI.

Transaction	BAdI	Description	Method
Purchase requisition	ARBCIG_PURREQ	To enhance or modify data for the purchase requisition. Use this BAdI for processing enhancements before or after sending the message to SAP Ariba Procurement solutions.	PREPROCESSING: To modify PR information before posting it. POSTPROCESSING: To modify PR information after posting it. Requirements This is a Filter BADI, hence should be set with 'C' / 'U' / 'D'. C - Create U - Update D - Delete
Purchase order create	ARBCIG_BUY_PURCHORD_BADI	To enhance or modify data for the create purchase order message. Use this BAdI for processing enhancements before or after sending the message to SAP Ariba Procurement solutions.	PUBLISH_PO_CREATE1: To pre-process PurchaseOrder Create.
Purchase order change/cancel/close	ARBCIG_BUY_ORDCHANGE_BADI	To enhance or modify data for the change, cancel, or close purchase order message. Use this BAdI for processing enhancements before or after sending the message to SAP Ariba Procurement solutions.	PUBLISH_PO_CHANGE : To modify the change purchase order request before processing. PUBLISH_PO_CANCEL:To pre-process PO Cancel. PUBLISH_PO_CLOSE: To modify the close purchase order request before processing. SKIP_GR_CHECK: To skip checking the goods receipt number from the ARBCIG_GOODSRCPT table.

Transaction	BAdI	Description	Method
BAdI for PO close	ARBCIG_PO_CLOSURE	To enhance or modify the data sent for the closed purchase orders. Use this BAdI for processing enhancements before or after sending the message to SAP Ariba Procurement solutions.	PRE_CLOSE_PO: This method is called before posting the closed purchase order status. POST_CLOSE_PO: This method is called after posting the closed purchase order status.
Service sheet	ARBCIG_SES_CREATE	To enhance or modify data for the service sheet. Use this BAdI for processing enhancements before or after sending the message to SAP Ariba Procurement solutions.	UPDATE_SES_BAPITABLES: To modify service sheet information before posting it. POSTPROCESSING: To modify service sheet information after posting it. UPDATE_SES_MAPPING: To modify service sheet information after mapping.
Service sheet response	ARBCIG_SESR_UPDATE	To enhance or modify data for the service sheet reponse. Use this BAdI for processing enhancements before sending the messages. Use the SESR_P2P parameter.	CHANGE_SESR_DATA: To modify service sheet response details before sending to SAP Business Network.
Receipt request	ARBCIG_GR_CREATE	To enhance or modify data for receipt request. Use this BAdI for processing enhancements before or after sending the message to SAP Ariba Procurement solutions.	PUBLISH_GR_CREATE : To modify the create receipt request before processing. GOODS_RECEIPTS_ERRORS: To modify the response messages sent from ERP.

Transaction	BAdI	Description	Method
Advance payment	ARBCIG_ADV_PYMNT	To enhance or modify data for the advance payment message. Use this BAdI for processing enhancements before or after sending the message to SAP Ariba Procurement solutions.	Advance Payment Create Implementation methods: PREPROCESSING: Modify data before calling BAPI_ACC_DOCUMENT_POST POSTPROCESSING: Modify data after calling BAPI_ACC_DOCUMENT_POST Advance Payment Cancel Implementation methods: CANCELPREPROCESSING: Modify data before calling BAPI_ACC_DOCUMENT_REV_POST CANCELPOSTPROCESSING: Modify data after calling BAPI_ACC_DOCUMENT_REV_POST
Payment export request	ARBCIG_INVCREATE	To enhance or modify data for invoice or non-PO (FI) invoice. Use this BAdI for processing enhancements before sending the message to SAP Ariba Procurement solutions.	INVOICE_CREATE: To modify data for standard invoice. FI_INVOICE_CREATE: To modify data for non-PO (FI) invoice.
ERP response to procurement	ARBCIG_ERP_RESPONSE_TO_P2P	To preprocess the data before sending the response to SAP Ariba Procurement solutions. This BAdI is used by all the asynchronous SAP Ariba Procurement solutions requests as well as the Purchase Order Header Status transaction.	SEND_RESPONSE_PRE_PROCESSING: Preprocess the data before sending the response to SAP Ariba Procurement solutions.

Transaction	BAdI	Description	Method
ERP-initiated service entry sheets	ARBCIG_BUY_ERP_SES_CREATE	To customize the information or perform activities before or after sending service entry sheet.	PRE_PROCESSING_OUTBOUND: PRE_PROCESSING_OUTBOUND To modify service entry sheet information before sending it to SAP Ariba Procurement solutions. POST_PROCESSING_OUTBOUND: To process activities after sending the service entry sheet to SAP Ariba Procurement solutions.
ERP-initiated purchase requisition	ARBCIG_ERP_REQUISITION_EXPORT	To enhance or modify data of ERP-initiated purchase requisition. Use this BAdI for processing enhancements before sending the message to SAP Ariba Procurement solutions.	PUBLISH_REQUISITION - Process the final requisition data. PROCESS_ACCOUNT - Process the accounting data in the requisition. PROCESS_ITEM - Process the item data in the requisition. PROCESS_REQUISITION_DATA - Process the requisition data extracted from the EBAN table. PRE_PROCESS - Process requisition data for the EXIT_SAPLMEREQ_008 customer exit.
	ARBCIG_BUYER_STATUS_UPDATE	To enhance or modify the document status data of ERP-initiated purchase requisition. Use this BAdI for processing enhancements before sending the message to SAP ERP or SAP S/4HANA.	PRE_PROCESSING - Preprocess for document status update. POST_PROCESSING - Postprocess for document status update.
	ARBCIG_BATCH_DELETE_REQ	The BAdI is used to customize values while deleting the individual requisitions and consolidating them into a single purchase requisition.	PREPROCESSING - Process the values before deletion of requisition. POSTPROCESSING - Process the values after deletion of requisition.

Transaction	BAdI	Description	Method
Stock inventory	`ARBCIG_STOCK_AVAILABILITY`	Use this BAdI to check for stock in real-time.	PREPROCESSING: This method is called before processing a stock check request.
Stock reservation	`ARBCIG_STK_RESERVATION`	Use this BAdI to enhance the structure of stock reservation request.	PREPROCESSINGCREATE: This method is called before creating a stock reservation request. PREPROCESSINGCHANGE: This method is called before changing or deleting a stock reservation request. POSTPROCESSING: This method is called after processing a stock reservation request.

Customization for SAP Ariba Strategic Sourcing Suite

Implementing the BAdI for Contracts from SAP Ariba Contracts in SAP EHP3 and Lower [page 614]

Implementing the BAdI for Contracts from SAP Ariba Contracts in SAP EHP4 and Higher [page 615]

Implementing the BAdI for Purchase Orders from SAP Ariba Sourcing [page 616]

Implementing the BAdI to Customize Master Data [page 617]

Implementing the BAdI to Customize Material Master Data [page 618]

Implementing the BAdI for Scheduling Agreements from SAP Ariba Contracts [page 619]

Implementing the BAdI for Contracts from SAP Ariba Contracts in SAP EHP3 and Lower

Context

You can implement the BAdI `ARBCIG_SRC_CONTRACT_CREATE` to customize the new contracts received from SAP Ariba Contracts and created in SAP EHP0 to SAP EHP3.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Strategic Suite Sourcing Integration** > **Business Add-Ins(BAdIs)** > **SAP Ariba Sourcing and Contracts Integration** > **Contract** > **BAdIs for Contract (EHP3 and below)**
4. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: `ARBCIG_SRC_CONTRACT_CREATE`

   The following table lists methods that you can implement:

Method Name	Description
INBOUND_PROCESSING	To enhance the method of the inbound document mapping fields.
OUTBOUND_PROCESSING	To enhance the method of the outbound document mapping fields.

Implementing the BAdI for Contracts from SAP Ariba Contracts in SAP EHP4 and Higher

Context

You can implement the BAdIs `PUR_SE_PCERPMNTRQ1_ASYN` and `PUR_SE_PCERPCNF_ASYN` to customize the contracts you receive from SAP Ariba Contracts and are created in SAP EHP4 and higher. This is the SAP standard BAdI.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Strategic Suite Sourcing Integration** > **Business Add-Ins(BAdIs)** > **SAP Ariba Sourcing and Contracts Integration** > **Contract** > **BAdIs for Contract (EHP4 and above)**

4. Implement the standard BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - For inbound processing, use BAdI `PUR_SE_PCERPMNTRQ1_ASYN`
   - For outbound processing, use BAdI name: `PUR_SE_PCERPCNF_ASYN`

   The following table lists methods that you can implement:

Method Name	Description
INBOUND_PROCESSING	To enhance the instance method of the inbound mapping fields.
OUTBOUND_PROCESSING	To enhance the instance method of the outbound mapping fields.

Implementing the BAdI for Purchase Orders from SAP Ariba Sourcing

Context

You can implement the BAdI `ARBCIG_SRC_QUOTE_PO` to customize the purchase order created against the `quoteMessage` received from SAP Ariba Sourcing.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Strategic Suite Sourcing Integration** > **Business Add-Ins(BAdIs)** > **SAP Ariba Sourcing and Contracts Integration** > **Purchase Order** > **BAdIs for Purchase Order**
4. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: `ARBCIG_SRC_QUOTE_PO`

   The following table lists methods that you can implement:

Method Name	Description
PREPROCESSING	To enhance the existing structure while creating purchase orders. The data is modified before calling the `BAPI_PO_CREATE1`.

Method Name	Description
POSTPROCESSING	To enhance the existing structure while creating purchase orders. The data is modified after calling the BAPI_PO_CREATE1.

Implementing the BAdI to Customize Master Data

Context

You can modify the following methods in the BAdI ARBCIG_MASTERDATA to customize the master data program.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Enhancements** > **Business Add-Ins(BAdIs)** > **Master Data Export** .
4. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: ARBCIG_MASTERDATA

   The following table lists methods that you can implement:

Method Name	Description
PUBLISH_PLANT	To enhance the method to publish the plant information after processing.
PUBLISH_PURCHASE_ORGANIZATION	To enhance the method to publish the purchase organization information after processing.
PUBLISH_COMPANYCODE	To enhance the method to publish the company code information after processing.
PUBLISH_PURCHASE_GROUP	To enhance the method to publish the purchase group information after processing.
PUBLISH_PLANT_PURCHASE_ORG	To enhance the method to publish the plant purchase organization information after processing.
PUBLISH_PAYMENT_TERMS	To enhance the method to publish the terms of payment information after processing.

Method Name	Description
PUBLISH_INCOTERMS	To enhance the method to customize the incoterms after processing.
PUBLISH_MATERIALMASTER	To enhance the method to publish the material master information to the SAP Ariba solution.
PUBLISH_ITEMCATEGORY	To enhance the method to publish the item category information to the SAP Ariba solution.
PUBLISH_MATERIAL_GROUP	To enhance the method to publish the material group information after processing.

Implementing the BAdI to Customize Material Master Data

Context

You can customize the following methods to enhance the structures for the material master data, material classification, and Manufacturer Parts List in the BAdI ARBCIG_MASTERDATA.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Master Data Integration** > **Enhancements** > **Business Add-Ins(BAdIs)** > **Master Data Export**.
4. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: ARBCIG_MASTERDATA

   The following table lists the structures that you can enhance:

Structure Name	Description
ARBCIG_MATERIAL_PLANT	To modify the material plant information.
ARBCIG_MATERIAL_ONLY_INFO	To modify the information for the material item.
ARBCIG_MATERIAL_LANG	To modify the information for the material item in different languages.
ARBCIG_MATERIAL_ONLY_AML	To modify the information for the Manufacturer Parts List for the material item.

Implementing the BAdI for Scheduling Agreements from SAP Ariba Contracts

Context

You can implement the BAdI `ARBCIG_SCHEDGAGRMT` to customize the structures in contracts with the document category, scheduling agreement sent from SAP Ariba Contracts.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Ariba Strategic Suite Sourcing Integration** > **Business Add-Ins(BAdIs)** > **SAP Ariba Sourcing and Contracts Integration** > **Scheduling Agreement** > **BAdI for Scheduling Agreement** .
4. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.
   - BAdI name: `ARBCIG_SCHEDGAGRMT`

   The following table lists methods that you can implement:

Method Name	Description
PREPROCESSING	To enhance the existing structure for contracts for scheduling agreements. The data is modified before calling the `BAPI_SAG_CRATE` and `BAPI_SAG_CHANGE` .
POSTPROCESSING	To enhance the existing structure for contracts for scheduling agreements. The data is modified after calling the `BAPI_SAG_CRATE` and `BAPI_SAG_CHANGE` .

About Enhancement to Extension Structures to Customize Transactions

The enhancement is applicable to the following SAP Ariba solutions integrated with SAP ERP or SAP S/4HANA using SAP Integration Suite, managed gateway :

- SAP Business Network
- SAP Ariba Procurement solutions

- SAP Ariba strategic sourcing solutions

Buyers can use extension structures to add or modify the transaction parameters in their SAP ERP or SAP S/4HANA system.

When buyers customize transactions by adding parameters or modifying existing parameters in the SAP ERP or SAP S/4HANA system, they can synchronize it with the SAP Ariba solution by mapping it to SAP Integration Suite, managed gateway.

To synchronize custom parameters, perform the following tasks:

- Implement the customer exit or BAdI to populate the extended custom values. For more information, see Customization [page 596].
- Contact SAP Ariba Support to help synchronize custom parameters using custom XSLT mappings.

Extension Structures for SAP Business Network

The following table lists the new extension structures introduced for IDocs in SAP Business Network transactions:

Transaction	Basic Type	Segment Name	Description	Path
Purchase Order	ARBCIG_ORDERS	E1ARBCIG_COMPANY EXTN	Extension for company	E1EDK14 > E1ARBCIG_COMPANY EXTN
		E1ARBCIG_HDRPART EXTN	Extension for partner header	E1EDKA1 > E1ARBCIG_HDRPART EXTN
		E1ARBCIG_ITMPART EXTN	Extension for item partner	E1EDP01 > E1EDPA1 > E1ARBCIG_ITMPART EXTN
		E1ARBCIG_SERVICE EXTN	Extension for service	E1EDP01 > E1EDC01 > E1ARBCIG_SERVICE EXTN
Invoice	ARBCIG_INVOIC	E1ARBCIG_HDRPART EXTN	Extension for partner header	E1EDKA1 > E1ARBCIG_HDRPART EXTN
		E1ARBCIG_HDRTAXE XTN	Extension for tax header	E1EDK04 > E1ARBCIG_HDRTAXE XTN
		E1ARBCIG_ITMTAXE XTN	Extension for tax	E1EDP01 > E1EDP04 > E1ARBCIG_ITMTAXE XTN
Scheduling agreement release	ARBCIG_DELINS	E1ARBCIG_HDRPART EXTN	Extension for partner header	E1EDK09 > E1EDKA1 >

Transaction	Basic Type	Segment Name	Description	Path
				E1ARBCIG_HDRPART EXTN
		E1ARBCIG_PACKING EXTN	Extension for packing data	E1EDK09 > E1EDP10 > E1EDP14 > E1ARBCIG_PACKING EXTN
		E1ARBCIG_SCHEDUL ELINEEXTN	Extension for schedule lines	E1EDK09 > E1EDP10 > E1EDP16 > E1ARBCIG_SCHEDUL ELINEEXTN
FI-based ERP-initiated invoice	ARBCIG_FIDCC2	E1ARBCIG_TAXDATA EXTN	Extension for FI tax data	E1FIKPF > E1FISET > E1ARBCIG_TAXDATA EXTN
MM-based ERP-initiated invoice	ARBCIG_GSVERF	E1ARBCIG_HDRPART EXTN	Extension for partner header	E1EDKA1 > E1ARBCIG_HDRPART EXTN
		E1ARBCIG_ITMPART EXTN	Extension for item partner	E1EDP01 > E1EDPA1 > E1ARBCIG_ITMPART EXTN
		E1ARBCIG_HDRTAXE XTN	Extension for tax header	E1EDK04 > E1ARBCIG_HDRTAXE XTN
		E1ARBCIG_ITMTAXE XTN	Extension for tax	E1EDP01 > E1EDP04 > E1ARBCIG_ITMTAXE XTN
Order enquiry	ARBCIG_ORDENQ	E1ARBCIG_HDRPART EXTN	Extension for header partner	E1EDKA1 > E1ARBCIG_HDRPART EXTN
		E1ARBCIG_ITMPART EXTN	Extension for item partner	E1EDP01 > E1EDPA1 > E1ARBCIG_ITMPART EXTN
Payment remittance request	ARBCIG_REMADV	E1ARBCIG_PAYMENT EXTN	Extension for payment instruction	E1IDKU3 > E1ARBCIG_PAYMENT EXTN
		E1ARBCIG_HDRBANK EXTN	Extension for bank info header	E1IDB02 > E1ARBCIG_HDRBANK EXTN

Transaction	Basic Type	Segment Name	Description	Path
		E1ARBCIG_HDRPARTEXTN	Extension for partner header	E1EDKA1 > E1ARBCIG_HDRPARTEXTN

The following table lists the new extension structures introduced for proxies in SAP Business Network transactions:

Transaction	Basic Type	Segment Name	Description	Path
Quality inspection	QualityInspectionResult	QualityInspectionResultDetails	Extension for quality inspection result	QualityInspectionResult_Async_In > PartInput > QualityInspectionResult > QualityInspectionResultDetails > AribaExtension
Component consumption request	ComponentConsumption	ComponentReferenceDocument	Extension for component consumption request	ComponentConsumptionReq_Async_In > PartInput > ComponentConsumption > ComponentReferenceDocument > AribaExtension
Product Replenishment	ProductReplenishment	TimeSeriesDetails	Extension for product replenishment	ProductReplenishmentRequest_Asyn_In > PartInput > ProductReplenishment > ProductReplenishmentDetails > ReplenishmentTimeSeries > TimeSeriesDetails > AribaExtension
Payment Proposal	PaymentProposalRequest	TAX	Extension for tax in payment proposal.	PaymentProposalRequest_Async_Out > PartOutput > PaymentProposalRequest > item > PROPOSAL > TAX > AribaExtension
	QualityIssueNotificationMessage	QltyIssNotifSUITENotifBuyrPty	Extension for buyer details in quality issue notification message	QualityIssueNotification_Async_In > PartInput > QualityIssueNotificationMessage

Transaction	Basic Type	Segment Name	Description	Path
				> QualityIssueNotification > BuyerParty > AribaExtension
	QualityIssueNotificationMessage	QltyIssNotifSUITENotifVndrPty	Extension for vendor details in quality issue notification message	QualityIssueNotification_Async_In > PartInput > QualityIssueNotificationMessage > QualityIssueNotification > VendorParty > AribaExtension
	QualityIssueNotificationMessage	QltyIssNotifSUITENotifMatl	Extension for material details in quality issue notification message	QualityIssueNotification_Async_In > PartInput > QualityIssueNotificationMessage > QualityIssueNotification > Material > AribaExtension
Document Status Update Request	DocumentStatusUpdateRequest	DocumentStatusUpdateRequest	Extension for document status update.	DocumentStatusUpdateRequest_Async_In > PartInput > DocumentStatusUpdateRequest > AribaExtension
	DsptchdDelivNotifMsg	PurchaseOrderReference	Extension for despatch delivery notification	DespatchedDeliveryNotification_Async_Out > PartOutput > DsptchdDelivNotifMsg > Delivery > Item > PurchaseOrderReference > AribaExtension
	QualityInspectionRequest	VendorContactInfo	Extension for vendor contact details in quality inspection request	QualityInspectionRequest_Async_Out > PartOutput > QualityInspectio

Transaction	Basic Type	Segment Name	Description	Path
				nRequest > QualityInspectionRequestHeader > VendorContactInfo > Address > AribaExtension
	QualityInspectionRequest	CompanyContactInfo	Extension for company contact details in quality inspection request	QualityInspectionRequest_Async_Out > PartOutput > QualityInspectionRequest > QualityInspectionRequestHeader > CompanyContactInfo > Address > AribaExtension
	RequisitionDetailsRequest	AcctLineItems	Extension for company contact details in quality inspection request	RequisitionNotification_Async_Out > PartOutput > RequisitionDetailsRequest > Header > ItemDetails > AcctLineItems > AribaExtension
	RequisitionDetailsRequest	Header	Extension for requisition header	RequisitionDetailsRequest > Header > AribaExtension
Product Activity Message	ProductActivityMessage	BATCH	Extension for batch in product activity message	ProductActivityMessage > ProductDetails > Batch > AribaExtension
	ProductActivityMessage	INVENTORY	Extension for inventory in product activity message	ProductActivityMessage > ProductDetails > Inventory > AribaExtension
	ProductActivityMessage	ConsignmentMovement	Extension for consignment movement in product activity message	ProductActivityMessage > ProductDetails > ConsignmentMovement > AribaExtension

Transaction	Basic Type	Segment Name	Description	Path
	ProductActivityMessage	`ConsignmentInventory`	Extension for consignment inventory in product activity message	`ProductActivityMessage > ProductDetails > ConsignmentInventory > AribaExtension`
	ProductActivityMessage	`SMIInventory`	Extension for SMI inventory in product activity message	`ProductActivityMessage > ProductDetails > SMIInventory > AribaExtension`
	ProductActivityMessage	`TimeSeriesDetails`	Extension for time series details in product activity message	`ProductActivityMessage > ProductDetails > PlanningTimeSeries > TimeSeriesDetails > AribaExtension`
	ProductActivityMessage	`ReferenceDocumentInfo`	Extension for reference document info in product activity message	`ProductActivityMessage > ProductDetails > ReferenceDocumentInfo > AribaExtension`
	ProductActivityMessage	`Forecast`	Extension for forecast in product activity message	`ProductActivityMessage > ProductDetails > ForecastTimeSeries > Forecast > AribaExtension`

Extension Structures for SAP Ariba Procurement solutions

The following table lists the new extension structures introduced for proxies in SAP Ariba Procurement solutions transactions:

Transaction	Basic Type	Segment Name	Description	Path
Remittance	BuyerRemittanceExportRequest_Async_Out	`BuyerRemittanceExportRequest_Async_Out`	Extension for buyer remittance export from ERP	`REMITTANCE_OUTPUT > EXTENSIONOUT > ITEM`

Extension Structures for SAP Ariba strategic sourcing solutions

The following table lists the new extension structures introduced for SAP Ariba strategic sourcing solutions transactions:

Transaction	Basic Type	Segment Name	Description	Path
Request for Quotation	ARBCIG_REQOTE	E1ARBCIG_HDRORGEXTN	Extension for organization header	E1EDK14 > E1ARBCIG_HDRORGEXTN
		E1ARBCIG_HDRTAXEXTN	Extension for tax header	E1EDK04 > E1ARBCIG_HDRTAXEXTN
		E1ARBCIG_HDRPARTEXTN	Extension for partner header	E1EDKA1 > E1ARBCIG_HDRPARTEXTN
		E1ARBCIG_ITMTAXEXTN	Extension for tax	E1EDP01 > E1EDP04 > E1ARBCIG_ITMTAXEXTN
		E1ARBCIG_ITMPARTEXTN	Extension for item partner	E1EDP01 > E1EDPA1 > E1ARBCIG_ITMPARTEXTN
		E1ARBCIG_SERVICEEXTN	Extension for service	E1EDP01 > E1EDC01 > E1ARBCIG_SERVICEEXTN

Using Test Central for Buyer Regression Testing

For more information about Test Central, see Using Test Central for Buyer Regression Testing in SAP Integration Suite, Managed Gateway Overview Guide.

Configuring Test Central [page 627]

Managing Regression Test Suites [page 650]

Managing Test Cases in a Regression Test Suite [page 658]

Configuring Test Central

Global Settings for Test Central [page 627]

General Settings for SAP Business Network in Test Central [page 629]

Configurations for Supported Transactions of SAP Business Network in Test Central [page 630]

Global Settings for Test Central

Maintaining Parameters for Enabling Test Central [page 627]

Setting Up the Interface for Test Central [page 628]

Maintaining Parameters for Enabling Test Central

Context

Maintain this parameter to enable Test Central with SAP Integration Suite, managed gateway.

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Test Central** > **Global Settings**
4. Click **IMG-Activity** for **Maintain Parameters for Enabling Test Central**.

   The **Parameters - Test Central Enable** page appears.
5. Maintain the following parameter:

Parameter Name	Description	Supported Values
TC_ENABLED	Use this parameter to enable Test Central with SAP Integration Suite, managed gateway	• **Variable Name**: TC_ENABLED • **Field Name**: Leave Empty • **Number**: 0000 • **Low**: X

Setting Up the Interface for Test Central

Context

Set up the interface for web services for Test Central. This task is a one-time activity.

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Test Central** > **Global Settings**
4. Click **IMG-Activity** for **Set Up the Interface**.

   The **Test Central Endpoint Setup Program** page appears.
5. Select one of the following types of authentication methods to connect to the SAP Integration Suite, managed gateway test system for the outbound messages:
   - Select **User ID / Password** and enter authentication information to connect to SAP Integration Suite, managed gateway
     - In the **User Name** field, enter the P user ID that you activated while registering the SAP Ariba application with SAP Integration Suite, managed gateway.
     - In the **Password** field, enter the password for the P user ID. The password you specify here should match the password you entered while registering the SAP Ariba application with SAP Integration Suite, managed gateway.
   - Select **X.509 SSL Client Certificate** and choose the **Certificate Name** (ARIBA, for example).

6. If you use a proxy server, enter the following information in the following fields under **HTTP Proxy Options**:
    - In the **Name of Proxy Host** field, enter the HTTP proxy name. For example, proxy.abc.com.
    - In the **Port Number of Proxy Host** field, enter the port number. For example, 8080.

General Settings for SAP Business Network in Test Central

Enabling Vendors [page 629]

Implementing BAdI to Support SAP Business Network Transactions in Test Central [page 630]

Enabling Vendors

Context

You can maintain the vendors that are registered suppliers on SAP Business Network. You can enable these vendors for Test Central by marking X against their record in the **TC Vendor Check** field.

Procedure

1. Run the transaction code SPRO.

    The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

    The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Test Central** > **SAP Business Network Integration** > **General Settings** > **Enable Vendors**
4. Click **IMG-Activity** for **Enable Vendors**.

    The **Change View "SAP Business Network Vendor Table": Overview** screen appears.
5. Maintain the vendor and associated company code for each of the vendors you want to enable for SAP Business Network in the **Company Code** and **Vendor** fields.
6. Enter **X** in the **TC Vendor Check** field to enable the vendor for Test Central.

Implementing BAdI to Support SAP Business Network Transactions in Test Central

Context

Common utility BAdI for SAP Business Network transactions to provide placeholders for the customization by customers.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** page appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Test Central** > **SAP Business Network Integration** > **General Settings** > **BAdI for SAP Business Network Transactions**
4. Implement the following BAdIs. For more information about implementing a BAdI, see How to Implement a BAdI:

BAdI	Description	Method
ARBCIG_TC_ATTACHMENT_BADI	Use this BAdI to enhance the attachment protocol to send the details of manually created transactions.	PREPROCESSER
ARBCIG_TC_FACTORY_BADI	Use this BadI for the general settings of Test Central.	• PREPROCESSER: Use this method to modify the name of the implementation class that copies the details of the manually created document. • POSTPROCESSOR: Use this method to change the error or success message.

Configurations for Supported Transactions of SAP Business Network in Test Central

Outbound Transactions [page 631]

Inbound Transactions [page 645]

Outbound Transactions

Implementing Customer Exit for a Purchase Order in Test Central [page 631]

Maintaining Parameters for FI Invoice in Test Central [page 632]

Implementing Customer Exit for MM Invoice in Test Central [page 633]

Implementing Customer Exit for FI Invoice in Test Central [page 634]

Implementing BAdI for Supported Outbound SAP Business Network Transactions [page 635]

Implementing Customer Exit for a Purchase Order in Test Central

Context

Implement this customer exit for purchase orders for Test Central.

> **Note**
>
> You must place `INCLUDE ARBCIG_TC_ORDER_REQUEST_011 IF FOUND` below `INCLUDE ARBCIG_ORDER_REQUEST_011 IF FOUND`.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Test Central** > **SAP Business Network Integration** > **Application Specific Settings** > **Purchase Order**.
4. Click **IMG-Activity** for **Implement Customer Exit for Purchase Order**.

   The **Project Management of SAP Enhancements** screen appears.
5. Enter a name in the **Project** field. For example, `ZTCPO`.
6. Click **Create** and enter a description in the **Short Text** field.
7. Click **Save**.
8. Click **Enhancement assignments**.

   The **Create Object Directory Entry** screen appears.
9. Choose the package and save the changes.

   The **SAP Enhancements in Enhancement Project** <object name> page appears.

10. Enter `MM06E001` in the **Enhancement** field and then press **Enter**.
11. Click **Components**.
12. Double-click **EXIT_SAPLEINM_011**.

    The program **INCLUDE ZXM06U33** appears.
13. Double-click **INCLUDE ZXM06U33** in the **Function Builder: Display EXIT_SAPLEINM_011** page to create the program.
14. Enter the include: **INCLUDE ARBCIG_TC_ORDER_REQUEST_011 IF FOUND**.
15. Save the entries.
16. Click the **Activate** button to go back to the **CMOD** screen.
17. Activate the customer exit in the **CMOD** screen.

Maintaining Parameters for FI Invoice in Test Central

Context

Maintain this parameter to enable Test Central proxy to trigger FI invoices and credit memos.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Test Central** > **SAP Business Network Integration** > **Application Specific Settings** > **Invoice**.
4. Click **IMG-Activity** for **Maintain Parameter for FI-Invoice**.

   The **Parameters - Test Central FI Invoice/Credit memo** page appears.
5. Maintain the following parameter:

Parameter Name	Description	Supported Values
FI_DOC_TYPE	Use this parameter to enable Test Central proxy to trigger FI invoices and credit memos.	• **Variable Name**: FI_DOC_TYPE • **Field Name**: Leave Empty • **Number**: 0000 • **Low**: KR

Implementing Customer Exit for MM Invoice in Test Central

Context

Implement this customer exit for MM invoices for Test Central.

> **Note**
>
> You must place `INCLUDE ARBCIG_TC_ERP_MMINV_ASYNC_RESP IF FOUND` below `INCLUDE ARBCIG_INCL_INVOICE_GET_DETAIL IF FOUND`.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Test Central** > **SAP Business Network Integration** > **Application Specific Settings** > **Invoice** >.
4. Click **IMG-Activity** for **Implement Customer Exit for ERP-Initiated Invoice**.

   The **Project Management of SAP Enhancements** screen appears.
5. Enter a name in the **Project** field. For example, `ZSUSMM1`.
6. Click **Create** and enter a description in the **Short Text** field.
7. Click **Save**.
8. Click **Enhancement assignments**.

   The **Create Object Directory Entry** screen appears.
9. Choose the package and save the changes.

   The **SAP Enhancements in Enhancement Project** <object name> page appears.
10. Enter `MRMH0002` in the **Enhancement** field and then press **Enter**.
11. Click **Components**.
12. Double-click **EXIT_SAPLMRMN_001**.

    The program **INCLUDE ZXMRNU01** appears.
13. Double-click **INCLUDE ZXMRNU01** in the **Function Builder: Display EXIT_SAPLMRMN_001** page to create the program.
14. Enter the include: **INCLUDE ARBCIG_TC_ERP_MMINV_ASYNC_RESP IF FOUND**.
15. Save the entries.
16. Click the **Activate** button to go back to the **CMOD** screen.
17. Activate the customer exit in the **CMOD** screen.

Implementing Customer Exit for FI Invoice in Test Central

Context

Implement this customer exit for FI invoices for Test Central.

> **Note**
>
> You must place `INCLUDE ARBCIG_TC_ERP_FIINV_ASYNC_RESP IF FOUND` below `INCLUDE ARBCIG_INCL_ERPCC_FI_INV_HDR IF FOUND`.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Test Central** > **SAP Business Network Integration** > **Application Specific Settings** > **Invoice** > .
4. Click **IMG-Activity** for **Implement Customer Exit for ERP-Initiated Invoice**.

   The **Project Management of SAP Enhancements** screen appears.
5. Enter a name in the **Project** field. For example, `ZFIDOC`.
6. Click **Create** and enter a description in the **Short Text** field.
7. Click **Save**.
8. Click **Enhancement assignments**.

   The **Create Object Directory Entry** screen appears.
9. Choose the package and save the changes.

   The **SAP Enhancements in Enhancement Project** <object name> page appears.
10. Enter `F050S001` in the **Enhancement** field and then press **Enter**.
11. Click **Components**.
12. Double-click **EXIT_SAPLF050_007**.

    The program **INCLUDE ZX050U07** appears.
13. Double-click **INCLUDE ZX050U07** in the **Function Builder: Display EXIT_SAPLF050_007** page to create the program.
14. Enter the include: **INCLUDE ARBCIG_TC_ERP_FIINV_ASYNC_RESP IF FOUND**.
15. Save the entries.
16. Click the **Activate** button to go back to the **CMOD** screen.
17. Activate the customer exit in the **CMOD** screen.

Implementing BAdI for Supported Outbound SAP Business Network Transactions

Context

Implement BAdIs for the following outbound SAP Business Network transactions:

- Purchase Order
- Receipt Request
- Service Sheet Response
- Invoice Status Update
- Payment Proposal
- Payment Remittance
- ERP-Initiated Invoice

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** page appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to the path mentioned in the **SPRO Navigation** column in the following table.
4. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.

Transaction	SPRO Navigation	BAdI	Description	Method
Purchase Order	**Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **TestCentral** > **SAP Business Network Integration** > **Application Specific Settings** > **Purchase Order** > **BAdI for Purchase Orders**	• ARB-CIG_TC_PO_ASYNC_RESP_BADI • ARB-CIG_TC_ORD-CHANGE_BADI • ARB-CIG_TC_ORD-CREATE_BADI	• **ARB-CIG_TC_PO_ASYNC_RESP_BADI**: Use this BAdI to send the details of the purchase order when creating or changing a purchase order manually. • **ARB-CIG_TC_ORD-CHANGE_BADI**: Use this BAdI for performing the change operation for purchase orders when copying the purchase order document. • **ARB-CIG_TC_ORD-CREATE_BADI**: Use this BAdI for performing the create operation for purchase orders when copying the purchase order document.	For **ARB-CIG_TC_PO_ASYNC_RESP_BADI** • **PRE_PROCESSING**: Use this method to skip the standard SAP Ariba call transformation or SAP Ariba standard processor and/or response and implement customized logic • **POST_PROCESSING**: Use this method to change the error or success message. For **ARBCIG_TC_ORD-CHANGE_BADI** • **PRE_TRANSFORMATION**: Use this method to skip the SAP Ariba standard call transformation and use customized logic. • **PUBLISH_ORD_CHANGE**: Use this method to skip the standard BAPI and use custom logic. • **POST_ORD_CHANGE**: Use this method to change the error or success message. For **ARBCIG_TC_ORD-CREATE_BADI** • **PRE_TRANSFORMATION**: Use

Transaction	SPRO Navigation	BAdI	Description	Method
				this method to skip the SAP Ariba standard call transformation and use customized logic. • **PUBLISH_ORD_CREATE**: Use this method to skip the standard BAPI and use custom logic. • **POST_ORD_CREATE**: Use this method to change the error and/or success message.
Receipt Request	**Integration with Other SAP Components > SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer > TestCentral > SAP Business Network Integration > Application Specific Settings > Receipt Request > BAdI for Receipt Request**	ARB-CIG_TC_RCPTCREATE_BADI	Use this BAdI for the receipt request document.	• **PUBLISH_RECEIPT_CREATE**: Use this method per BAPI call to skip the standard BAPI call and use custom logic. • **POST_RECEIPT_CREATE**: Use this method per BAPI call to change the error or success message.

Transaction	SPRO Navigation	BAdI	Description	Method
Service Sheet Response	**Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **TestCentral** > **SAP Business Network Integration** > **Application Specific Settings** > **Service Sheet Response** > **BAdI for Service Sheet Response**	ARBCIG_TC_SESRESPONSE_BADI	Use this BAdI for the service sheet response transaction.	• **PRE_PROCESSING**: Use this method to modify the response message. • **POST_PROCESSING**: Use this method to change the error or success message.

Transaction	SPRO Navigation	BAdI	Description	Method
Invoice Status Update	**Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **TestCentral** > **SAP Business Network Integration** > **Application Specific Settings** > **Invoice Status Update** > **BAdI for Invoice Status Update**	ARBCIG_TC_ISU_BADI	Use this BAdI for the invoice status update (ISU) document.	• **PRE_PROCESSING_MM_INV_POST**: Use this method to add custom logic to the existing ISU message indicating posting of the MM invoice, which you need to send to SAP Business Network. • **PRE_PROCESSING_MM_INV_RELEASE**: Use this method to add custom logic to the existing ISU message indicating releasing of the MM invoice, which you need to send to SAP Business Network. • **PRE_PROCESSING_MM_INV_CANCEL**: Use this method to add custom logic to the existing ISU message indicating canceling of the MM invoice, which you need to send to SAP Business Network. • **PRE_PROCESSING_FI_INV_RELEASE**: Use this method to add custom logic to the existing ISU message indicating releasing of the FI invoice, which you need to

Transaction	SPRO Navigation	BAdI	Description	Method
				send to SAP Business Network. • **PRE_PROCESSING_FI_INV_CANCEL**: Use this method to add custom logic to the existing ISU message indicating canceling of the FI invoice, which you need to send to SAP Business Network. • **PRE_PROCESSING_SUBMIT_ISU_REP**: Use this method to add custom logic to the existing ISU message of the subcontract invoice, which you need to send to SAP Business Network. • **POST_PROCESSING**: Use this method to change the error or success message.
Payment Proposal	**Integration with Other SAP Components > SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer > TestCentral > SAP Business Network Integration > Application Specific Settings > Payment Proposal > BAdI for Payment Proposal**	ARBCIG_TC_PPR	Use this BAdI for the payment proposal transaction.	• **PRE_PROCESSING**: Use this method per BAPI to skip standard flow and make custom logic for payment proposals. • **POST_PROCESSING**: Use this method to change the error or success message.

Transaction	SPRO Navigation	BAdI	Description	Method
Payment Remittance	**Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **TestCentral** > **SAP Business Network Integration** > **Application Specific Settings** > **Payment Remittance** > **BAdI for Payment Remittance**	ARBCIG_TC_REMIT-TANCE	Use this BAdI for the payment remittance transaction.	• **PRE_PROCESS-ING**: Use this method per BAPI to skip stand-ard flow and make custom logic for payment remittance. • **POST_PROCESS-ING**: Use this method to change the error or suc-cess message.

Transaction	SPRO Navigation	BAdI	Description	Method
ERP-Initiated Invoice	**Integration with Other SAP Components > SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer > TestCentral > SAP Business Network Integration > Application Specific Settings > Invoice > BAdI for ERP-Initiate Invoice**	• ARB-CIG_TC_CCINV_ASYN_RESP_BADI • ARB-CIG_TC_CCINV_BADI	• **ARB-CIG_TC_CCINV_ASYN_RESP_BADI** Use this BAdI to send the details of ERP-initiated invoices (MM invoice, FI invoice, MRKO invoice) when they were created or changed manually. • **ARB-CIG_TC_CCINV_BADI** Use this BAdI to copy the details of the manually created ERP-initiated invoices (MM invoice, FI invoice, MRKO invoice) to create ERP-initiated invoices for Test Central.	• **PRE_PROCESSING_MM_INV**: Use this method to skip the SAP Ariba standard call transformation and standard process or response and implement customized logic for MM invoices. • **PRE_PROCESSING_FI_INV**: Use this method to skip the SAP Ariba standard call transformation and standard process or response and implement customized logic for FI invoices. • **PRE_PROCESSING_MRKO_INV**: Use this method to skip the SAP Ariba standard call transformation and standard process or response and implement customized logic for MRKO invoices. • **POST_PROCESSING_CC_INV**: Use this method to change the error or success message for MM invoices, FI invoices, and MRKO invoices. • **PRE_PROCESSING_MM_INV_CR**

Transaction	SPRO Navigation	BAdI	Description	Method
				E: Use this method to skip the SAP Ariba standard call transformation, standard process and/or response, and implement customized logic when creating the MM invoice for Test Central. • **POST_PROCESSING_MM_INV_CRE**: Use this method to change the error or success message for the MM invoice for Test Central. • **PRE_PROCESSING_FI_INV_CRE**: Use this method to skip the SAP Ariba standard call transformation, standard process and/or response, and implement customized logic when creating the FI invoice for Test Central. • **POST_PROCESSING_FI_INV_CRE**: Use this method to change the error or success message for the FI invoice for Test Central. • **PRE_PROCESSING_MRKO_INV_CRE**: Use this method to skip the SAP Ariba

Transaction	SPRO Navigation	BAdI	Description	Method
				standard call transformation, standard process and/or response, and implement customized logic when creating the MRKO invoice for Test Central. • **POST_PROCESSING_MRKO_INV_CRE**: Use this method to change the error or success message for the MRKO invoice for Test Central. • **PRE_TRANSFORMATION_MMINV**: Use this method to skip the SAP Ariba standard call transformation, standard process and/or response, and implement customized logic when creating transformations for the MM invoice for Test Central. • **PRE_TRANSFORMATION_FIINV**: Use this method to skip the SAP Ariba standard call transformation, standard process and/or response, and implement customized logic when creating transformations for the

Transaction	SPRO Navigation	BAdI	Description	Method
				FI invoice for Test Central.

Inbound Transactions

Maintaining Event Linkages for Order Confirmation in Test Central [page 645]

Maintaining Event Linkages for Invoices in Test Central [page 647]

Implementing BAdI for the Supported Inbound Transactions [page 648]

Maintaining Event Linkages for Order Confirmation in Test Central

Context

In this customizing activity, you can maintain the event linkage to receive responses for success or failure messages in Test Central for the order confirmation transaction. Create and activate the `MASSINPUTFINISHED` event linkages for receiving the responses in Test Central for the successful posting of order confirmation. Create and activate the `INPUTERROROCCURRED` event linkages for receiving the responses in Test Central for the failure in posting the order confirmation.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Test Central** > **SAP Business Network Integration** > **Application Specific Settings** > **Order Confirmation** > .
4. Click **IMG-Activity** for **Maintain Event Linkages for Order Confirmation**.

   The **Change View "Event Type Linkages": Overview** page appears.
5. Click **New Entries**.

   The **New Entries: Details of Added Entries** page appears.
6. Maintain the following entries for receiving responses for successful operations:

- **Object Category**: BO BOR Object Type
- **Object Type**: IDOCORDRSP
- **Event**: MASSINPUTFINISHED
- **Receiver Type**: ARBCIG_ORDRSP

Linkage Setting (Event Receiver)

- **Receiver Call**: Method
- **Class Name**: `CL_ARBCIG_INB_IDOC_SUCS_EVENT`
- **Interface Name**: `BI_EVENT_HANDLER_STATIC`
- **Method Name**: `ON_EVENT`
- **Check Function Module**: Leave it blank
- **Receiver Type Function Module**: Leave it blank
- **Destination of Receiver**: Leave it blank
- **Event delivery**: Using tRFC (Default)
- Select **Linkage Activated**
- **Behavior Upon Error Feedback**: 0 System defaults
- **Receiver Status**: 0 No errors

7. Save the changes.
8. Click **New Entries**.

   The **New Entries: Details of Added Entries** page appears.
9. Maintain the following entries for receiving responses for failed operations:
   - **Object Category**: BO BOR Object Type
   - **Object Type**: IDOCORDRSP
   - **Event**: INPUTERROROCCURRED
   - **Receiver Type**: ARBCIG_ORDRSP

   Linkage Setting (Event Receiver)

   - **Receiver Call**: Method
   - **Class Name**: `CL_ARBCIG_INB_IDOC_ERROR_EVENT`
   - **Interface Name**: `BI_EVENT_HANDLER_STATIC`
   - **Method Name**: `ON_EVENT`
   - **Check Function Module**: Leave it blank
   - **Receiver Type Function Module**: Leave it blank
   - **Destination of Receiver**: Leave it blank
   - **Event delivery**: Using tRFC (Default)
   - Select **Linkage Activated**
   - **Behavior Upon Error Feedback**: 0 System defaults
   - **Receiver Status**: 0 No errors
10. Save the changes.

Maintaining Event Linkages for Invoices in Test Central

Context

In this customizing activity, you can maintain the event linkage to receive responses for success or failure messages in Test Central for invoices. Create and activate the `MASSINPUTFINISHED` event linkages for receiving the responses in Test Central for the successful posting of invoices. Create and activate the `INPUTERROROCCURREDMM` event linkages for receiving the responses in Test Central for the failure in posting invoices.

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Test Central** > **SAP Business Network Integration** > **Application Specific Settings** > **Invoice** > .
4. Click **IMG-Activity** for **Maintain Event Linkage for Invoice**.

   The **Change View "Event Type Linkages": Overview** page appears.
5. Click **New Entries**.

   The **New Entries: Details of Added Entries** page appears.
6. Maintain the following entries for receiving responses for successful operations:
   - **Object Category**: BO BOR Object Type
   - **Object Type**: IDPKINVOIC
   - **Event**: MASSINPUTFINISHED
   - **Receiver Type**: ARBCIG_INVOIC

   Linkage Setting (Event Receiver)
   - **Receiver Call**: Method
   - **Class Name**: `CL_ARBCIG_INB_IDOC_SUCS_EVENT`
   - **Interface Name**: `BI_EVENT_HANDLER_STATIC`
   - **Method Name**: `ON_EVENT`
   - **Check Function Module**: Leave it blank
   - **Receiver Type Function Module**: Leave it blank
   - **Destination of Receiver**: Leave it blank
   - **Event delivery**: Using tRFC (Default)
   - Select **Linkage Activated**
   - **Behavior Upon Error Feedback**: 0 System defaults
   - **Receiver Status**: 0 No errors

7. Save the changes.
8. Click **New Entries**.

   The **New Entries: Details of Added Entries** page appears.
9. Maintain the following entries for receiving responses for failed operations:
   - **Object Category**: BO BOR Object Type
   - **Object Type**: IDPKINVOIC
   - **Event**: INPUTERROROCCURREDMM
   - **Receiver Type**: ARBCIG_INVOIC

   Linkage Setting (Event Receiver)
   - **Receiver Call**: Method
   - **Class Name**: `CL_ARBCIG_INB_IDOC_ERROR_EVENT`
   - **Interface Name**: `BI_EVENT_HANDLER_STATIC`
   - **Method Name**: `ON_EVENT`
   - **Check Function Module**: Leave it blank
   - **Receiver Type Function Module**: Leave it blank
   - **Destination of Receiver**: Leave it blank
   - **Event delivery**: Using tRFC (Default)
   - Select **Linkage Activated**
   - **Behavior Upon Error Feedback**: 0 System defaults
   - **Receiver Status**: 0 No errors
10. Save the changes.

Implementing BAdI for the Supported Inbound Transactions

Context

Implement BAdIs for the following inbound SAP Business Network transactions:

- Ship Notice
- Service Sheet

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** page appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to the path mentioned in the **SPRO Navigation** column in the following table.

4. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.

Transaction	SPRO Navigation	BAdI	Description	Method
Advance Ship Notice	**Integration with Other SAP Components > SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer > TestCentral > SAP Business Network Integration > Application Specific Settings > Advance Ship Notice > BAdI for Advance Ship Notice**	ARB-CIG_TC_SHIP_NO-TICE_OUT_BADI	Use this BAdI for the advance ship notice transaction.	• **PRE_PROCESS-ING_SHIP_NO-TICE_CRE**: Use this method to skip the SAP Ariba standard call transforma-tion and use cus-tomized logic for creating advance ship notice. • **PRE_PROCESS-ING_SHIP_NO-TICE_UPD**: Use this method to skip the SAP Ariba standard call transforma-tion and use cus-tomized logic for updating advance ship notice. • **POST_PROCESS-ING_SHIP_NO-TICE**: Use this method to change the error and/or success message for the advance ship notice trans-action. • **PRE_PROCESS-ING_PGI**: Use this method to skip the SAP Ariba standard call transforma-tion and use cus-tomized logic for post goods issue.

Transaction	SPRO Navigation	BAdI	Description	Method
Service Sheet	**Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **TestCentral** > **SAP Business Network Integration** > **Application Specific Settings** > **Service Sheet** > **BAdI for Service Sheet**	ARBCIG_TC_SE-SCREATE_BADI	Use this BAdI for the service sheet transaction.	• **PUBLISH_SES_CREATE**: Use this method per BAPI call to skip the standard BAPI call and use custom logic for creating service sheets. • **POST_SES_CREATE**: Use this method per BAPI call to change the error or success message for creating service sheets.

Managing Regression Test Suites

Creating a Regression Test Suite for an SAP Business Network Transaction [page 650]

Viewing Regression Test Suites [page 654]

Creating a Regression Test Suite for an SAP Business Network Transaction

Context

To perform regression testing, you must first create a test suite. Perform the following steps to create a regression test suite.

Procedure

1. Log on to the SAP Integration Suite, managed gateway portal.
2. On the SAP Integration Suite, managed gateway page, click **Test Central**.
3. Click **Add Regression Test Suite**.

The **Regression Test Suites** dashboard displays.

4. On the **Regression Test Suites** dashboard, do the following:
   a. In the **System ID** dropdown, select the system ID of the SAP ERP or SAP S/4HANA system connected to SAP Integration Suite, managed gateway for which you want to create a regression test suite.
   b. Click **New Test Suite**
5. In the **Select Transaction** window, do the following:
   a. In the **Originating Document** drop-down, select the originating cXML document type that corresponds to the scenario that you want to test.

      > ### Note
      >
      > You can create test suites that are based on transactions you've completed successfully in the past 30 days.

   b. In the **Transaction Number** field, enter the originating document number of the transaction that you want to test. Originating document number is the number of the manually created document based on which the follow on transactions are listed.
   c. Click 🔍

      The regression test cases for the scenario would be listed.
6. Click **Load into Test Suite**.

   The **New Test Suite** page opens.
7. On the **New Test Suite** page, do the following:
   a. In the **Suite Name** field, enter the name of the test suite.
   b. In the **Suite Description** field, enter the description for the test suite.

      The page that lists the regression test cases in the test suite that you have created opens.
   c. To add manual steps to test cases, do the following:
      1. At the top right of the table that displays test cases, click **Show Advanced Config**.
      2. In the **Add Manual Steps** column, against the test cases where you want to add a manual activity, enable the manual activity.
         You can view the label, **Manual Step Added** against the test cases where you have added a manual activity.
8. Click **Create Test Suite**.

   The newly created test suite is displayed and the test cases starts running by default.

   The test cases where you have added a manual activity displays the status, `WaitingForApproval` in the **Result** column.
9. For the test cases where you have added a manual activity, complete the manual activity outside Test Central and, then, click **Proceed**.

   The status of the test cases first changes to `InProgress` and then, to `Passed` or `Failed`. If a test case fails, all the subsequent test cases are cancelled.

   > ### Note
   >
   > Clicking **Proceed** without completing the manual activity outside Test Central will fail the test case.
   >
   > You must click **Proceed** for a test case within five hours. A delay beyond five hours will fail the test case. You cannot customize this wait time for your environment.

> **Note**
>
> On this page, you can do the following tasks as well:
>
> - Add additional test cases to the new regression test suite. For more information, see Adding Additional Test Cases to a Regression Test Suite [page 652]
> - Reset transactions in the regression test suite. For more information, see Resetting Transactions [page 653]
> - Perform advanced configurations for the regression test cases. For more information, see Resetting Transactions [page 653]

Adding Additional Test Cases to a Regression Test Suite

Context

If you want to add additional test cases after you load the initial set of test cases as part of creating a test suite, you can do so by performing the following steps.

> **Note**
>
> You can add additional test cases only before creating a test suite. You cannot add additional test cases when you edit an existing test suite.

Procedure

1. On the **New Test Suite** page, click **Add Test Cases**.

   The **Select Transaction** panel opens.
2. In the **Select Transaction** panel, do the following:
   a. In the **Originating Document** drop-down, select the originating cXML document type that corresponds to the transaction that you want to add.

      > **Note**
      >
      > You can create test cases that are based on transactions you've completed successfully in the past 30 days.

   b. In the **Transaction Number** field, enter the document number of the transaction that you want to test.
   c. Click 🔍

      The regression test cases for the transaction that you want to test are listed.
3. Click **Load into Test Suite**.

The **New Test Suite** page appears. You can view the new regression test cases are added to the regression test suite.

Resetting Transactions

Context

If you want to replace the transaction and its associated regression test cases that are currently available in your regression test suite when creating a test suite, you can do so by performing the following steps.

> **Note**
>
> You cannot reset test cases when you edit an existing test suite.

Procedure

1. On the **New Test Suite** page, click **Reset Transactions**.

   The **Select Transaction** panel opens.
2. In the **Select Transaction** panel, do the following:
   a. In the **Originating Document** drop-down, select the cXML document that corresponds to the transaction that you want to test. The transaction and its associated regression test cases that are currently available in your regression test suite will be replaced by the transaction that you select here and its associated test cases.

      > **Note**
      >
      > You can create test cases that are based on transactions you've completed successfully in the past 30 days.

   b. In the **Transaction Number** field, enter the document number of the transaction with which you want to replace the existing transaction and its associated use cases.
   c. Click 🔍

      The regression test cases for the new transaction that you want to test are listed.
3. Click **Load into Test Suite**.

   The **New Test Suite** page appears. All the existing test cases associated with the previous transaction are replaced by the test cases associated with the current transaction that you want to use.

Performing Advanced Configurations for the Test Cases

Context

Perform the following steps to do advanced configurations for the test cases that you have loaded to the new test suite.

> **Note**
>
> You cannot perform advanced configurations for the test cases when you edit an existing test suite.

Procedure

1. On the **New Test Suite** page, click **Show Advanced Config**.

   The detailed view of the test cases on the page displays the following additional columns:

   - **Order of Execution**
   - **Original Order**
   - **Include/Exclude**
2. In the detailed view of the test cases, you can do the following:
   - Drag and move the test cases to change their original order of execution.
   - Click **Include/Exclude** to include or exclude a regression test case.
3. Click **Save Advanced Config**.

Viewing Regression Test Suites

Context

The **Regression Test Suites** dashboard displays the following details of the regression test cases that you have already created.

- Name of the regression test suite
- The date and time of the latest run of the regression test suite
- The latest regression test run result

If you have several regression test cases listed on this page, you can use the **Test Suites Search** field to search and locate the regression test suite record.

Procedure

1. Log on to the SAP Integration Suite, managed gateway portal.
2. On the SAP Integration Suite, managed gateway page, click **Test Central**.
3. Click **Add Regression Test Suite**.

   The **Regression Test Suites** dashboard displays.
4. In the **System ID** dropdown, select the system ID of the SAP ERP or SAP S/4HANA system connected to SAP Integration Suite, managed gateway to view the associated regression test cases.

Viewing the Details of Test Cases in a Test Suite

Context

Perform the following steps to view the details of the test cases in a test suite.

Procedure

1. On the **Regression Test Suites** dashboard, identify the test suite that contains the test cases that you want to view.
2. On the right side of the test suite record, click the **See Details** icon (›)

   The page that displays the test cases within the selected test suite is displayed. You can view the following details of the test cases:

   - The order in which the test cases are run
   - Document type of each test case
   - The after-mapping file of the transaction that you have created manually. You can view this information in the **BaseLine XML** column.
   - The current status of the test case. You can view the status **Scheduled**, **In Progress**, **Passed**, **Update**, **Failed**, and **Canceled**.
   - The document number or the transaction number of the test case
   - Error log. Only the updated or failed test cases display the error log. For the failed test cases, you can view the detailed error log. For the updated test case you can view the difference between the baseline and the target XML files.

   To view the details of the test case, click the **See Details** icon (›) on the right side of the test case.

   For more information about viewing the details of test cases, see the **Knowing essential concepts about Test Central** subsection at Using Test Central for Buyer Regression Testing.

Modifying a Regression Test Suite

Context

Perform the following steps to modify a test suite.

> **Note**
>
> You cannot modify a test case that is currently in progress.

Procedure

1. On the **Regression Test Suites** dashboard, identify the test suite that you want to modify.
2. On the right side of the test suite record, click the **See Details** icon (›)

   The page that shows the test cases within the selected test suite is displayed.
3. At the top of the page, click the icon •••. From the submenu displayed, click **Edit Test Suite**.
4. At the bottom of the panel that displays test cases, under **Edit Name & Description**, modify the name and description of the suite.
5. Click **Save Test Suite**.

Rerunning a Regression Test Suite

Context

Perform the following steps to rerun a test suite.

Procedure

1. On the **Regression Test Suites** dashboard, identify the test suite that you want to run again.
2. On the right side of the test suite record, click the **See Details** icon (›)

   The page that shows the test cases within the selected test suite is displayed.
3. At the top of the page, click **Re-run Test Suite**.

   All the test cases start running again. In the details view of the test suite, you can view the progress of the running of the test suite.

Canceling a Regression Test Suite

Context

You can cancel the test suite that is currently in progress. You can also cancel a test suite soon after you re-run it.

Procedure

1. On the **Regression Test Suites** dashboard, identify the test suite that is currently in progress, which you want to cancel.
2. On the right side of the test suite record, click the **See Details** icon (›)

   The page that displays the test cases within the selected test suite is displayed.
3. At the top of the page, click **Cancel Test Suite**.

   The status of all the test cases changes to `Cancelled`.

Removing a Regression Test Suite

Context

Perform the following steps to remove a regression test suite.

Procedure

1. On the **Regression Test Suites** dashboard, identify the test suite that is currently in progress, which you want to remove.
2. On the right side of the test suite record, click the **See Details** icon (›)

   The page that shows the test cases within the selected test suite is displayed.
3. At the top of the page, click the icon •••. From the submenu displayed, click **Delete Test Suite**.
4. In the message box to confirm the removal of the test suite, click **Delete**.

Viewing the History of Regression Test Suite Results

Context

Perform the following steps to view the history of regression test suite results.

Procedure

1. On the **Regression Test Suites** dashboard, identify the test suite for which you want to view the history of regression test suite results.
2. On the right side of the test suite record, click the **See Details** icon (›)

   The page that shows the test cases within the selected test suite is displayed.
3. At the top of the page, click the icon •••. From the submenu displayed, click **View Past Test Results**.

   The **<Test Suite Name> - Test Result History** page displays. On this page, you can view the status of the recent 10 tests.

Managing Test Cases in a Regression Test Suite

Replacing the Baseline XML File with the Target XML File for an Updated Test Case [page 658]

Viewing the History of a Test Case Record [page 659]

Rerunning a Test Suite from the Test Case Details View [page 659]

Replacing the Baseline XML File with the Target XML File for an Updated Test Case

Context

Perform the following steps to replace the current baseline XML file with the target XML file.

Procedure

1. Log on to the SAP Integration Suite, managed gateway portal.
2. On the SAP Integration Suite, managed gateway page, click **Test Central**.
3. Click **Add Regression Test Suite**.

   The **Regression Test Suites** dashboard displays.
4. In the **System ID** dropdown, select the system ID of the SAP ERP or SAP S/4HANA system connected to SAP Integration Suite, managed gateway to view the associated regression test cases.
5. On the right side of the test suite record, click the **See Details** icon (›)
6. To view the details of the test case, click the **See Details** icon (›) on the right side of the test case.

7. In the detailed view of the updated test case, review and ensure the accuracy of the updates. At the bottom of the page, click **Update BaseLine** to use the target XML file as the baseline XML for re-running the test in the future.

   On successful update of the baseline XML file to the target XML file, the status **Baseline is updated** is displayed at the top of the page.

Viewing the History of a Test Case Record

Context

Perform the following steps to view the history of a test case record.

Procedure

1. Log on to the SAP Integration Suite, managed gateway portal.
2. On the SAP Integration Suite, managed gateway page, click **Test Central**.
3. Click **Add Regression Test Suite**.

   The **Regression Test Suites** dashboard displays.
4. In the **System ID** dropdown, select the system ID of the SAP ERP or SAP S/4HANA system connected to SAP Integration Suite, managed gateway to view the associated regression test cases.
5. On the right side of the test suite record, click the **See Details** icon (›)
6. To view the details of the test case, click the **See Details** icon (›) on the right side of the test case.
7. In the detailed view of the test case, at the bottom of the page, click **View Document History**.

   In the message box displayed, view the following details of the previous versions of the test case:

   - Version date
   - The baseline XML corresponding to the version date
   - The ID of the administrator who updated the version

Rerunning a Test Suite from the Test Case Details View

Context

Perform the following steps to rerun a test suite from the test case details view.

Procedure

1. Log on to the SAP Integration Suite, managed gateway portal.
2. On the SAP Integration Suite, managed gateway page, click **Test Central**.
3. Click **Add Regression Test Suite**.

   The **Regression Test Suites** dashboard displays.
4. In the **System ID** dropdown, select the system ID of the SAP ERP or SAP S/4HANA system connected to SAP Integration Suite, managed gateway to view the associated regression test cases.
5. On the right side of the test suite record, click the **See Details** icon (›)
6. To view the details of the test case, click the **See Details** icon (›) on the right side of the test case.
7. In the detailed view of the test case, at the top of the page, click **Re-run Test Suite**.

   In the detailed view of the test suite, you can view the progress of the running of the test suite.

Managing Custom Mappings

Starting from the SAP Integration Suite, managed gateway June 2019 release (ARBCI1 100: SP 0005), buyers can use the mapping tool to create, edit, delete, and test their custom mappings.

Buyers can access the mapping tool on SAP Integration Suite, managed gateway, from the **Mappings** tab in the **My Configurations** screen. For an overview of the mapping tool, see Working with the Mapping Tool in SAP Integration Suite, Managed Gateway Overview Guide.

> ⓘ Note
>
> Before you begin adding custom mappings, ensure that you confirm your integration projects and they are in the **Testing** state.

This section lists the tasks that you can perform on your custom mappings using the mapping tool.

- Creating Custom Mappings [page 661]
- Editing Custom Mappings [page 663]
- Deploying the Mappings [page 683]
- Managing Versions of Mappings [page 684]
- Testing Custom Mappings [page 685]
- Deleting Mappings [page 686]
- Managing Custom Mappings with Custom Fields [page 686]

Creating Custom Mappings

Context

Use the mapping tool to create custom mappings for document transformations.

Procedure

1. Select **My Configurations** > **Mappings**.

   The **Mappings** tab displays the list of document types supported by SAP Integration Suite, managed gateway, and other details such as Version, Standard Map, Custom Map, and so on.
2. Select a document type, (for example, QuoteRequest) and then click the + icon under **Actions**.

   The **Document Mapper** screen opens.

3. Under **Systemid's**, select one or more system IDs.

> **Note**
>
> If you proceed without selecting at least one system ID, the custom mapping that you create will be associated with all the system IDs available in the account.

4. > **Note**
>
> The **Document Mapping** section displays the source (for example, Addon QuoteRequest) and the destination document (cXMLQuoteRequest).

   To map a source element to a target element, select a source field(for example, `DOCNUM`), and then drag and drop this on a destination field(for example, `@version`).

   The source and the destination fields get mapped. (For example, `DOCNUM` from the `AddonQuoteRequest` gets mapped to `@version` in the cXMLQuoteRequest.) A blue line connects the fields that have been mapped. In unselected state, the color of the line changes to grey.

   > **Note**
   >
   > You can map a target element only once. However, you can map the source elements multiple times.

5. You can do one or more tasks from the following list:
   - Add constants [page 664]
   - Add variables [page 666]
   - Add functions [page 670]
   - Add conditions [page 674]
   - Add multiple extrinsic nodes [page 679]
   - Delete existing nodes [page 681]
6. If you want to delete a mapping line, select a mapping line, right-click on it, and then select the 🗑 icon.
7. > **Note**
>
> Do not click **Close** without saving the changes. If you click **Close**, the page closes without giving a warning, and all your changes done to the mappings will be lost.
>
> If you want to delete all the mapping, click the **Clear** button.

   To save your mapping change, click **Save Mapping**.

Next Steps

After you save the mappings, you must activate the latest version and deploy the mappings. for information on how to deploy the mappings, see Deploying the Mappings [page 683].

After you deploy the mapping, you can test your mapping changes using the mapping testing tool. For more information on testing the mapping, see Testing Custom Mappings [page 685]

Related Information

Testing Custom Mappings [page 685]
Deleting Mappings [page 686]

Editing Custom Mappings

Context

You can edit your custom mappings using the mapping tool.

Procedure

1. Select **My Configurations** > **Mappings**.

   The **Mappings** tab displays the list of document types supported by SAP Integration Suite, managed gateway, and other details such as Version, Standard Map, Custom Map, and so on.
2. Select a document type, and then click the ✎ icon under **Actions**.

   The **Document Mapper** screen opens.
3. You can do one or more tasks from the following list, to edit the custom mappings:
   - Add constants [page 664]
   - Add variables [page 666]
   - Add functions [page 670]
   - Add conditions [page 674]
   - Add multiple extrinsic nodes [page 679]
   - Delete existing nodes [page 681]
4. Click **Save Mappings**.

   After you edit an initial mapping that was not yet deployed, you can deploy the mapping using the deployment buttons. For more details, see Deploying the Mappings [page 683]. Go to step 7.

   If you edited and saved a mapping which was deployed before, the undeploy button (✓ mark with a blue background) gets replaced by a synchronize (⟳) button.

   > ⓘ Note
   >
   > You must activate the latest version before you can deploy the latest version of the custom mapping.
5. To activate the latest version of the mapping, click the ⟳ button.

   The screen displays the following options:

   Deactivate the old version

Activate the new version

Cancel

6. Click **Activate new version** .

   The ↻ button under **TEST** is replaced by a deploy button (✓).

7. Click **Close**.

Adding Constants [page 664]

Adding Target Variables [page 666]

Adding Functions [page 668]

Adding Conditions to Custom Mappings [page 673]

Adding Multiple Extrinsic Nodes [page 679]

Mapping More than One Source Element to a Target Element [page 680]

Creating Elements with Children [page 680]

Deleting Existing Elements [page 681]

Creating a Target Node Set [page 682]

Specifying the Parameters for Splitting the Lines in the Text Descriptions [page 682]

Related Information

Testing Custom Mappings [page 685]
Managing Versions of Mappings [page 684]
Deploying the Mappings [page 683]

Adding Constants

Context

You have selected a document type, and then clicked the ✎ icon under **Actions**.

You can add constant values to the destination fields.

Procedure

1. On the **Document Mapper** screen, select a destination field and right-click.

2. Select **Add Constant Value**.

   The value-list box pops up.
3. Do one of the following:
   - If the box displays an editable *Value List*, select one of the values displayed, or enter a value.
   - If the screen displays a non-editable list, select a value from the **Value List** field.

   A short horizontal line displays next to the field that is mapped to a constant value.
4. Click **Save Mapping**.

Mapping Empty Constants

Context

You can map target fields to an empty constant.

You have selected a document type, and then clicked the  icon under **Actions**.

You can add constant values to the destination fields.

Procedure

1. On the **Document Mapper** screen, select a destination field and right-click.

   For example, select an Extrinsic node and right-click.
2. Select **Add Constant Value**.

   The *XPath* box pops up.
3. Select the **Empty** check box.
4. Click **OK**.

   A short horizontal line displays next to the field that is mapped to an empty constant.
5. To view the constant value, click the horizontal line next to the target field, and select **Show Constant Value / Conditions**.

   The **Constant Value** pop up displays the empty constant value.
6. Click **Close**.
7. Click **Save Mapping**.

Adding Target Variables

The target variable allows you to map source values to the target matching the target's occurrence position(position variable) or matching element value/content (value or content variable).

When creating the Target Variable, you have to choose between position or value.

Adding Target Position Variable [page 666]

Adding Target Value Variable [page 667]

Editing the Target Variable [page 668]

Adding Target Position Variable

Context

You have selected a document type, and then clicked the ✎ icon under **Actions**.

You can map source values to the target matching the target's occurrence position.

Procedure

1. On the **Document Mapper** screen, click on a mapping line. If there is no mapping line, create a mapping line between a source and a target element, and then click on it.

   For example, select a mapping line that connects `IDTNR` from Addon Order (source) to `SupplierPartID` in the cXML OrdrRequest (target). If this line does not exist, create this mapping line by dragging and dropping the source element on the target element.

2. Select **Target Variable** > **Add Position Variable** .

   The Mapping tool prompts to select an item on the target mapping.

3. Select a target element that must be a parent in the same path and must have an occurrence > 1. You can also select the same target node of the mapping with occurrence > 1.

   In this example, select `AccountingSegment` or `Distribution`.

   To use the target variable, the mapping needs a source condition. The mapping tool prompts you to set atleast one source condition of the **Position Variable** type.

4. To set the position variable for the source condition, click on the mapping line, and then select **Add Source Condition**, and then select the repeatable source node you want to connect to the repeatable target node.

   The **Condition Type** box displays the condition types.

5. Select **Position Variable** .

This option appears only if you have set the target position variable.

6. Click **OK**.
7. To add mutliple target position variable, select the mapping line and repeat Step 2 to step 6.
8. Click **Save Mapping**.

Adding Target Value Variable

Context

You have selected a document type, and then clicked the icon under **Actions**.

The **Target Value Variable** implements a conditional mapping that applies the mapping to a target matching a source condition of the **Value Variable** type.

Procedure

1. On the **Document Mapper** screen, click on a mapping line.
2. Right-click on the target field.
3. Select **Target Variable** > **Set Variable** > **Value** , and then select a target field. The target field can be the same target node of the mapping.

   Elements to be used as value variable need to be non-repeatable (max occur =1)

   If the value variable is a direct parent of the target element, it can be repeatable

   If the value variable is not a direct parent of the target element (but is a sibling or child of them), the parents must not be repeatable.

   If the value variable is a child of the target element's parent, it must be non-repeatable.
4. Click on the mapping line, and then select **Add Source Condition**, and then select the source node you want to connect to the target node.
   s

   The **Condition Type** box displays the condition types.
5. Select **Value Variable** .

   > ⓘ Note
   >
   > The **Value Variable**is enabled in the source condition only for mappings with a target value variable.
6. Click **OK**.
7. Click **Save Mapping**.

Editing the Target Variable

Procedure

1. To edit the target variable that you have already set, click on the mapping line, and then select **Target Variable** > **Edit Variable**.
2. Select **Value** or **Position** and then select a target.
3. To remove the target variable, click **Remove Variable**.

   The target variable and its corresponding source condition gets removed from the mapping.
4. To view the target variable that you have already set, click on the mapping line, and then select **Target Variable** > **Show Variable**.

   The **Target Position Variable for XPath** popup displays the Xpath to the variable's element.

Adding Functions

You have selected a document type, and then clicked the icon under **Actions**.

You can add multiple functions to the mapping lines, and the order of the functions can be changed. The function that was created first will be executed first. You can change the order of the functions in the Show/Edit function screen. The concat function is always executed last. After you add functions to the mapping lines, the mapping lines display the Fx symbol.

- Adding Concat Function [page 669]
- Adding Substring Function [page 670]
- Adding Normalize Function [page 670]
- Adding Format Date Function [page 671]
- Adding Format Number Function [page 671]
- Viewing or Editing Functions [page 673]

Adding Concat Function [page 669]

Adding Substring Function [page 670]

Adding Normalize Function [page 670]

Adding Format Date Function [page 671]

Adding Format Number Function [page 671]

Adding a Translation Function [page 672]

Viewing or Editing Functions [page 673]

Adding Concat Function

Context

The concat function lets you to concatenate upto three source elements and map it to a target field.

Procedure

1. On the **Document Mapper** screen, select an existing custom mapping line, or create a custom mapping by selecting a source field from the left pane, drag and drop it on a target field in the right pane.

   For example, select `DOCNUM` from AddonQuoteRequest(source), drag and drop it on `@version` in the cXML QuoteRequest (target).
2. Right-click on the mapping line, select **Functions** > **Add Function** > **Add Concat Function** .
3. Select the source field that you want to concatenate.

   For example, select `IDOCTYPE` from AddonQuoteRequest(source).
4. Enter a value in the **Concat Connecting Character** field, to place any character between the concatenated fields, for example, a dash or period.
5. Click **OK**.

   The **Source XPath** pop-up opens to display the source conditions.

   You can set source conditions based on the value that you set in this pop-up. You can delete the conditions if you do not need them.
6. Select an operator from the **Operator** dropdown, and enter a value.
7. Click **Save**.

   When you apply a concat function to a mapping, an additional mapping line connects the destination to the concatenated source field, a function symbol (Fx) appears on the mapping lines. Color of the concatenated mapping lines turn yellow.

   > ⓘ Note
   >
   > You can change the order of the concatenated source elements in the Show/Edit functions dialog.

Related Information

Viewing or Editing Functions [page 673]

Adding Substring Function

Context

The substring function lets you choose a sub string from a source field and add to a destination field.

Procedure

1. On the **Document Mapper** screen, select an existing custom mapping line, or create a custom mapping by selecting a source field from the left pane, drag and drop it on a target field in the right pane.

   For example, select `DOCNUM` from AddonQuoteRequest(source), drag and drop it on `@version` in the cXML QuoteRequest (target).
2. Right-click on the mapping line, and then select **Functions** > **Add Function** > **Add Substring Function**.
3. Enter values for the **Substring Start Position** and **Substring Length** fields.
4. Click **OK**.

   When you apply a substring function to a mapping, a function symbol (Fx) appears on the mapping line.

Related Information

Testing Custom Mappings [page 685]

Adding Normalize Function

Context

Use the normalize function to remove additional whitespaces from the source XPath into the target item. Only one normalize function per mapping can be used. There are no additional parameters for the normalize function.

Procedure

1. On the **Document Mapper** screen, select an existing custom mapping line, or create a custom mapping by selecting a source field from the left pane, drag and drop it on a target field in the right pane.
2. Right-click on the selected mapping line, and then select **Functions** > **Add Function** > **Add Normalize Function**.
3. Save the mappings.

Adding Format Date Function

Context

Use this function to set date pattern to be applied when writing the mapped date. You can use only one format date function per mapping.

Procedure

1. On the **Document Mapper** screen, select an existing custom mapping line, or create a custom mapping by selecting a source field from the left pane, drag and drop it on a target field in the right pane.
2. Right-click on the mapping line, and then select **Functions** > **Add Function** > **Add Format Date Function**.
3. Enter a format.
4. Save the mappings.

Adding Format Number Function

Context

Use this function to set a number pattern to be applied on the mapped number.

Procedure

1. On the **Document Mapper** screen, select an existing custom mapping line, or create a custom mapping by selecting a source field from the left pane, drag and drop it on a target field in the right pane.

   For example, select `DOCNUM` from AddonQuoteRequest(source), drag and drop it on `@version` in the cXML QuoteRequest (target).
2. Right-click on the mapping line, and then select **Functions** > **Add Function** > **Add Format Number Function**.
3. Enter a number format, and then click **OK**.
4. Save the mappings.

Adding a Translation Function

Context

The translation function enables buyers to translate a value of the source field to a different value and map it to the target field. For example, buyers can translate the value of the `DOCNUM` field from `1` to `A` and map it with the `@version` field in the target cXML QuoteRequest. The source value can be a string or number.

Procedure

1. On the **Document Mapper** screen, select an existing custom mapping line, or create a custom mapping by selecting a source field from the left pane, drag and drop it on a target field in the right pane.

   For example, select `DOCNUM` from AddonQuoteRequest(source), drag and drop it on `@version` in the cXML QuoteRequest (target).
2. Right-click on the mapping line, select **Functions** > **Add Function** > **Add Translation Function**.

   The **Translation Function** page appears.
3. Click **Add** to add the source values that you want to translate.
4. Enter a value in the **Source Value** field and the translated value in the **Target Value** field.

   You can repeat the step to add translations for multiple values. For example, the source values 1,2,3, and 4 can be translated to A, B, C, and D.
5. Select the **Otherwise/Default** option to translate the values that are not configured in Step 4. You can select one of the following:
   - **$source**- Retains the value of the source field. For example, if the source value is 5, the translated value will be 5.
   - **$empty**- The translated value will be blank.
6. (Optional) Save the configured translation function as a template. Perform the following steps in the same order to save as a template:

- Click **Save as New**.
- Enter template name and click **Submit**.
- Select the saved template from the **Translation Template** dropdown.
- Click **Save**.

> **Note**
>
> The template can be reused to translate any field.

7. Click **OK**.

Viewing or Editing Functions

Context

After you create functions on mapping lines you can view, edit, and delete the functions.

Procedure

1. On the **Document Mapper** screen, select the mapping lines that have the Fx symbol.
2. Right-click on the selected mapping line, and then select **Show/Edit Functions**.

   A pop-up displays all the functions applied on the mapping line. In this pop-up, you can:
   - change the order of the functions using the up and down arrows. However, the concat function will be executed last, you cannot change this order. You can change the order of the concatenated source elements using the up and down arrows under **Reorder**.
   - edit the functions using the edit icon.
   - delete the functions using the delete icon.

Adding Conditions to Custom Mappings

You have selected a document type, and then clicked the ✎ icon under **Actions**.

You can apply conditions at the source or the destination fields for the custom mapping line.

Starting, the release 2205 (Q2 2022), buyers can create multiple conditions using OR, AND, and NOT operators and perform any of the following actions:

- Using the OR operator: Check if *XPath1* matches either *value1* or *value2*. If yes, buyers can proceed with mapping.

- Using the OR operator: Check if *XPath1* matches *value1* or *XPath2* matches *value2*.
- Using the NOT operator: Check if *XPath1* does not match *value1*. This condition is indicated with a negation (!).
- Using OR, AND, and NOT operators: Create multiple conditions and group those conditions using OR, NOT, and AND operators, separated or combined using parenthesis. The conditions included in the parentheses are executed first.

Adding Source Conditions to the Custom Mappings [page 674]

Adding Target Conditions [page 675]

Adding For-Each Condition for a Source Segment [page 676]

Grouping Multiple Conditions for Custom Mappings [page 678]

Adding Source Conditions to the Custom Mappings

Context

You can apply conditions at the source fields for the custom mapping.

Procedure

1. On the **Document Mapper** screen, click on a mapping line.

   For example, select a mapping line that connects `DOCNUM` from the AddonQuoteRequest(source) to `@version` in the cXML QuoteRequest(target). If this line does not exist, create this mapping line by dragging and dropping the source on the destination.

   The selected mapping line turns blue, and displays a menu.
2. Select **Add Source Condition**.

   The screen prompts you to select a source condition.
3. Select an element from the source document.

   For example, select `STATUS` in the AddonQuoteRequest document.

   The **Condition Type** box displays the condition types.
4. You can apply a condition based on the position or the value of the source element that you selected. Select one of the conditions:
   - Position
     - In the **Position to be applied for condition field**, enter a value, and then click **OK**.

       > ⓘ Note
       >
       > This option appears only when you select a non-leaf node.

- Value
  - In **Value List**, select the value to be applied for the condition, and then click **OK**.

For example, select a position or value for the `STATUS` field in the AddonQuoteRequest. Only when this condition is true, then the `DOCNUM` from the AddonQuoteRequest maps to `@version` in the cXML QuoteRequest document.

When the conditions are met, the mapping is applied and the target message reflects the change.

The source condition displays in the tooltip when you hover over the mapping line.

To delete conditions

5. Right-click the mapping lines
6. Select **Show Conditions**.

   The screen displays the conditions and the following details:
   - **Identifier**
   - **Condition Xpath**
   - **Type**
   - **Condition Value**
   - **Action**
7. Click the delete icon next to the condition that you want to delete.

Related Information

Testing Custom Mappings [page 685]
Deploying the Mappings [page 683]

Adding Target Conditions

Context

You can apply conditions at the target fields for the custom mapping.

Procedure

1. On the **Document Mapper** screen, click on a mapping line.

   For example, select a mapping line that connects `DOCNUM` from the AddonQuoteRequest(source) to `@version` in the cXML QuoteRequest(target). If this line does not exist, create this mapping line by dragging and dropping the source on the destination.

The selected mapping line turns blue, and displays a menu.

2. Select **Add Target Condition**.

   The screen prompts you to select a target condition.

3. For example, select an element from the target document.

   Select `@payloadID` in the cXML QuoteRequest document.

   The **Condition Type** box displays the condition types.

4. You can apply a condition based on the position or the value of the source element that you selected. Select one of the conditions:

   - Position
     - In the **Position to be applied for condition field**, enter a value, and then click **OK**.

       > ### Note
       >
       > This option appears only when you select a non-leaf node.

   - Value
     - In **Value List**, select the value to be applied for the condition, and then click **OK**.

   For example, select a position or value for the `@payloadID` field in the AddonQuoteRequest. Only when this condition is true, then the `DOCNUM` from the AddonQuoteRequest maps to `@version` in the cXML QuoteRequest document.

   When the conditions are met, the mapping is applied and the target message reflects the change.

   The target condition displays in the tooltip when you hover over the mapping line.

To delete conditions

5. Right-click the mapping lines
6. Select **Show Conditions**.

   The screen displays the conditions and the following details:

   - **Identifier**
   - **Condition Xpath**
   - **Type**
   - **Condition Value**
   - **Action**

7. Click the delete icon next to the condition that you want to delete.

Adding For-Each Condition for a Source Segment

Context

This feature enables buyers to map a line item with multiple conditions in the source to the target line items. If there are repeated elements in the source, buyers can use this feature to map source field values to the correct parent elements in the target.

In the following sample, the segment `E1EDP01` is repeated with different values for the same field name.

Sample Code

```
<E1EDP01 SEGMENT="1">
<POSEX>00010</POSEX>
  ...
<E1ARBCIG_ITMEXTN SEGMENT="1">
  <FIELDNAME>IMPORT_TARIFF_CODE</FIELDNAME>
  <FIELDVALUE>T1-00010</FIELDVALUE>
</E1ARBCIG_ITMEXTN>
  ...
<E1EDP01 SEGMENT="1">
 <POSEX>00030</POSEX>
 <E1ARBCIG_ITMEXTN SEGMENT="1">
  <FIELDNAME>IMPORT_TARIFF_CODE</FIELDNAME>
  <FIELDVALUE>T1-00030</FIELDVALUE>
 </E1ARBCIG_ITMEXTN>
 <E1ARBCIG_ITMEXTN SEGMENT="1">
  <FIELDNAME>Tax Code</FIELDNAME>
  <FIELDVALUE>CA3</FIELDVALUE>
</E1EDP01>
```

The mapping tool users can specify the target position variables in the `For-Each` marker to map the source field values to the correct parent elements in the target. In the following sample, the values in the segment `E1EDP01` from the source is mapped to the `ItemDetailIndustry` element in the target.

Sample Code

```
<ItemOut lineNumber="00010"...>
 ...
 <ItemDetailIndustry>
  <ItemDetailRetail>
   <Characteristic domain="Import Tariff Code" value="T1-00010"/>
  </ItemDetailRetail>
 </ItemDetailIndustry>
 ..
</ItemOut>
<ItemOut lineNumber="00030"...>
 ...
 <ItemDetailIndustry>
  <ItemDetailRetail>
   <Characteristic domain="Import Tariff Code" value="T1-00030"/>
   <Characteristic domain="Tax Code" value="CA3"/>
  </ItemDetailRetail>
 </ItemDetailIndustry>
 ..
</ItemOut>
```

Procedure

1. On the **Document Mapper** screen, select and right-click the cXML segment in the target parent node to map the source value.
2. Click **For-Each**

   The source structure table prompts to select a source looping structure.
3. Select the source looping segment and map it to the target node.

4. Click **Save Mapping**.
5. Righ-click the mapping and click **Target Variable** > **Add Position Variable** .
6. Select the repeated target item where you want to map.
7. Righ-click the mapping and click **Add Condition to For-Each** and provide the source segment.
8. Click **Save Mapping**.

Grouping Multiple Conditions for Custom Mappings

Context

Buyers can create multiple conditions and group those conditions using OR, NOT, and AND operators, for custom mappings.

Procedure

1. After creating multiple conditions, right-click the mapping line, and select **Show Conditions**.

   The **Conditions** screen appears, displays conditions and the following details:
   - **Identifier**
   - **Condition XPath**
   - **TYPE**
   - **Operator**
   - **Modifier**
   - **Condition Value**
   - **Action**
   - **Source Expression**
   - **Target Expression**

   By default, all conditions in **Source Expression** and **Target Expression** are logically related using the AND operator.
2. Click the ✎ icon under **Actions**.

   The **Condition Expression** screen appears.
3. To group conditions, check the desired operators, select conditions from the **Argument 1** and **Argument 2** dropdown lists, and click **+Add**.

   The groups are created and labeled as condition groups in ascending order starting with *G* . For example, the first condition group will be labeled as *G1* . The second condition group will be labeled as *G2* , and so on.
4. Create a final condition expression to be executed for mapping, using the operators, conditions, and condition groups created. To select the expression to be executed, click the ✓ icon corresponding to the expression.

This executable expression is also known as the top group. The complete condition expression of the top group is resolved and used as a source or target expression. For example, if the following groups are created:

- G1=C1 OR C2
- G2=C3 OR C4
- G3=G1 AND G2

Here, if G3 is set as the top group, the groups are resolved as follows:

- G1=C1 OR C2
- G2=C3 OR C4
- G3=(C1 OR C2) AND (C3 OR C4)

5. Click **Close**.

   On the **Conditions** screen, **Source Expression** and **Target Expression** display the executable condition expression related using the OR, NOT, and AND operators, conditions, and groups. The NOT operator is indicated in the expression with negation (!).

Adding Multiple Extrinsic Nodes

Context

You have selected a document type, and then clicked the ✎ icon under **Actions**.

You can add adding multiple extrinsic nodes by using the duplicate node option.

> **Note**
>
> You can duplicate a node only if the following conditions are met:
>
> - The selected node is a leaf node.
> - The selected node is not an attribute node.
> - The selected node has no locked base-mapping.
> - The selected node has an **Occurrence** greater than 1.

Procedure

1. On the **Document Mapper** screen, select the extrinsic node that you want to duplicate.
2. Right-click on the node.
3. Click **Duplicate Node**.

   An additional leaf node gets created, and the duplicated tag-name is: original tag-name + repeat marker. Repeat marker is a " #X" with X = number.

   > **Note**
   >
   > If you exit this screen without mapping the duplicated node, the duplicated node will not be saved.

Mapping More than One Source Element to a Target Element

Context

You can map one or more source elements to one target element with a condition for each source element. The source elements have a specific order and the first source element that meets the condition is mapped to the target element.

Procedure

1. On the **Document Mapper** screen, select an existing custom mapping line, or create a custom mapping by selecting a source field from the left pane and mapping it to a target field in the right pane.

   For example, select a mapping line that connects `IDTNR` from Addon Order (source) to `SupplierPartID` in the cXML OrdrRequest (target). If this line does not exist, create this mapping line by dragging and dropping the source element on the target element.
2. Create another mapping line between another source element and the target element mapped in step 1.

   For example, create a mapping between `MFRNR` from Addon Order (source) to `SupplierPartID` in the cXML OrdrRequest (target).

   The Choose-When edit dialog opens to allow you to set conditions for the source elements.
3. In the source XPath, select an operator and a value, and then click **Save**.

   You can map multiple source elements, and use the Choose-When edit dialog to add conditions, change the order of the source elements, and delete certain source elements.

   The **Value** field is mandatory, except when you select the **none** operator. The **none** operator is allowed for the last source element. This mapping will be executed if no condition will be true.

   If there is only one line left in the Choose-When dialog, it is not possible to delete it.

Creating Elements with Children

Context

You can create elements with children, on the target document.

Procedure

1. On the **Document Mapper** screen, right-click on a target node and then select **Create/Replace Node**.

   The node with the child elements gets created in the target document. A short horizontal green line displays next to the created node.
2. Create mappings for all the mandatory fields(leaf nodes with occurrence more than 1.)
3. Save the mappings.

Deleting Existing Elements

Context

You have selected a document type, and then clicked the  icon under **Actions**.

You can mark an element in the mapping tool for deletion. This marker will be used by the XSLT generator to create a template which will not transfer the selected element from the source document to the target document.

Procedure

1. On the **Document Mapper** screen, click on a mapping line.
2. ⓘ Note

   - It is not possible to delete mandatory fields where the maximum occurrence is the same as the minimum occurrence.
   - If the field is mandatory (minimum occurrence > 1) and the maximum occurrence is greater than the minimum occurrence, then it is recommended to not delete more occurrences then required.
   - If you have an unbounded element and set the delete marker, all occurrences will be removed. If you want to remove single occurrence, then you must add a target condition to the delete marker.

   Right-click on a target node (for example, an extrinsic node) and then select **Delete Node**.

   All mappings under the selected node are removed from the target document.

Related Information

Testing Custom Mappings [page 685]

Creating a Target Node Set

Use the **For-Each** node to create a target node set by looping over a source element.

Procedure

1. Select **My Configurations** > **Mappings** .

   The **Mappings** tab displays the list of document types and other details such as Version, Standard Map, Custom Map, and so on.
2. Select a document type, and then click the edit icon under **Actions**.

   The **Document Mapper** screen opens.
3. Right-click on a repeatable node on the target document, and then select **For-Each** in the context menu.
4. Select a repeatable node on the source document.

   You can add a condition to the **For-Each** marker for the looping node by selecting it from the context menu.

   A short mapping line appears at the target node.
5. To add a condition, select a node on the source table, and select **Add Condition** from the context menu.

   This condition has the same restrictions as the conditions for the regular mappings.
6. To view the conditions used in the **For-Each** , select **Show/Edit For-Each** option, from the context menu.

   You can use the **For-Each** marker to:
   - Create mixed type mappings under or above a **For-Each** marker.
   - Create **For-Each** marker under a **For-Each** marker, and have a create node above a **For-Each** marker.
   - Mark a repeatable leaf or a mixed type element with a **For-Each** marker additionally to the regular mapping. This allows you to create example multiple extrinsic with the **For-Each** marker.

   .

Specifying the Parameters for Splitting the Lines in the Text Descriptions

Context

Specify the parameters for splitting the lines in the text descriptions into multiple lines for each transaction.

Procedure

1. Log into SAP Integration Suite, managed gateway.

2. Click **My Configurations** > **Mappings**.

   The **Mappings** tab displays the list of document types.

3. Select the required document type, and then click the icon in the **Actions** area.

   The **Document Mapper** screen opens.

4. Go to the Document Mapping section, expand the node containing the element for the text description.
5. Right-click the element and choose **Split Text** > **Set Text Limit**.
6. Specify the following parameters to split the lines in the text description:
   - **Max. Characters**: Allows you to specify the maximum number of characters allowed per line in the text description. This is a mandatory parameter. Ensure that you enter only positive integer values.
   - **Delimiter**: Allows you to specify a delimiter to split the line (line breaks) in the text description. This is an optional parameter.
     You can specify both the **Max. Characters** and **Delimiter** parameters for the target element.
7. Click **OK**.
8. Click **Save Mappings**.

> ⓘ Note
>
> When you edit a mapping that has not been deployed, ensure that you first deploy the mapping. For more information, see Deploying the Mappings [page 683].
>
> You must activate the newly edited version before you can deploy the latest version of the mapping file on SAP Integration Suite, managed gateway.

Deploying the Mappings

Context

After you create or edit your custom mappings, you must deploy them to **Test** or **Prod** environments. After you edit an initial mapping that was not yet deployed, you can deploy the mapping using the deploy button (✓ mark), as described in the following procedure.

However, if you had edited and saved a mapping which was deployed previously, the deploy and undeploy buttons will not be visible. You must activate the latest version of the mapping by clicking the ⟳ button, and then select the **Activate the new version** option. After you activate the latest version of the mapping you can deploy them using the deploy button. Then perform the following procedure:

Procedure

Deploying a new mapping

1. Select **My Configurations** > **Mappings**.

   The **Mappings** tab displays the list of document types and other details such as Version, Standard Map, Custom Map, and so on.

   > **Note**
   >
   > The custom mappings that are undeployed have a deploy button (✓), and the custom mappings that are deployed have an undeploy button (✓ mark with a blue background).

2. Select a mapping that you want to deploy, and then click the deploy button (✓ mark) under **Test** or **Prod** to deploy it in the respective environments.

   The mapping gets deployed, and the deploy button gets replaced by an undeploy button (✓ with a blue background).

3. To undeploy a mapping, click the undeploy button (✓ with a blue background) under **Test** or **Prod**.

   The mapping gets undeployed.

Managing Versions of Mappings

Context

The mapping tool allows you to deactivate the latest version, and activate an older version.

Procedure

1. Select **My Configurations** > **Mappings**.

   The **Mappings** tab displays the list of document types and other details such as Version, Standard Map, Custom Map, and so on.

2. Select a document type, and then click the icon under **Version Details**.

   The **Mapping Version Details** screen opens to display all the versions of the mapping for **Test** and **Prod**.

   The custom mappings that are undeployed have ✓ mark, and the custom mappings that are deployed have a ✓ mark with a blue background.

3. Do one of the following:

   - To deploy an older version, click the ✓ mark next to it.
   - To deactivate the latest version, click the ✓ mark with a blue background.

4. Go to **My Configurations** > **Mappings**, and click the icon to synchronize the changes that you made.

Testing Custom Mappings

Context

To test the custom mappings, you must deploy it to the **Test** environment. The mapping testing tool tests the latest version of the mapping that is deployed.

Procedure

1. Navigate to **Menu** > **My Configurations** > **Mappings**.

   The **Mappings** page opens.
2. Click the icon for the custom mappings which you want to test.

   The **Mapping Testing Tool** opens.
3. Do one of the following.
   - Click **Browse**, to upload the source message from your computer.
   - Click the **Saved** dropdown, to use previously saved messages.
   - Paste a source message in the **Content** field.

   You can save the message for later use, by clicking **Save**. You can save upto five messages.
4. Select a System ID from the **System Id** dropdown.
5. Click **Test** to test the mappings for the document type.

   The **Mapping Test Log** tab displays the test steps, their status, and summary. The **Result Message** tab displays the target message.
6. To view the mapping transformation changes, go to the **Mapping Tool Extension Transformation** step, and click the icon under **Step Summary**.

   The **Mapping Differences - 'Mapping Tool Extension Transformation'** page opens to display the standard mappings and custom mappings in two different panes. This split view uses red and green colors to highlight the changes in the mappings.
   - The deletions in the standard mappings are in red color.
   - The additions in the custom mappings are in green color.

   Use the navigation keys to scroll through the mappings to navigate to the next mapping difference.

Deleting Mappings

Context

The mapping tool allows you to delete mappings only if they are not used in any environment. To delete mappings that are deployed in any environment, you must first un-deploy them, and then delete.

Procedure

1. Select **My Configurations** > **Mappings**.

   The **Mappings** tab displays the list of document types and other details such as Version, Standard Map, Custom Map, and so on.
2. Select a document type, and then click the icon under **Actions**.

   The custom mapping for the document gets deleted.

Managing Custom Mappings with Custom Fields

Context

Administrators create custom schemas that make custom fields from SAP S/4HANA available in the mapping tool for custom mapping. SAP Integration Suite, managed gateway supports the SAP S/4HANA Extensibility Framework, which allows custom schemas to be created by uploading the required WSDL. The custom fields in the uploaded WSDL will be shown on the mapping tool.

Procedure

1. From **My Configuration** > **Mappings**, choose a document type to add new custom mappings.
2. In the **Document Mapper** page, drag and drop a source field on a custom SAP S/4HANA field in the **Document Mapping** section.
3. If an administrator disables the custom schema used in the custom mapping, when you click the edit button to edit the schema, the **Mappings with missing XPaths** window is displayed with a list of custom mappings that are disabled. Click **Close** to return to the **Document Mapper** page.
4. The custom mapping to the custom field is shown redirected to a different target field on the **Document Mapper** page as the original target custom fields are no longer available.
5. Right-click the incorrect mappings and choose **Delete** from the context menu. Alternatively, click **Check Missing Xpaths** to open the **Mappings with missing XPaths** window and do one of the following:

- Remove each mapping manually by clicking the trashcan icon next to each.
- Click **Remove All** to remove them all together.

6. Click the new view button under the **Actions** column for any version of the custom mapping in the **Mapping Version Details** page to see the custom mapping corresponding to that version. Use this option to view the custom mapping in older versions that changed because administrators either disabled the custom schema used in the mapping, or uploaded an updated or different schema.

   This is intended to be only a history record of the custom mapping. Trying to edit the older version opens the current valid version.

Administering Custom Mapping

For more information about administering custom mapping, see Administering Custom Mapping in SAP Integration Suite, Managed Gateway Overview Guide.

Viewing Available Custom Mapping Records [page 688]

Managing the Deployment of Custom Mapping [page 688]

Viewing Action Log [page 689]

Managing Versions of Custom Mappings [page 690]

Viewing Available Custom Mapping Records

Context

To view the details of the available custom mappings, perform the steps described in this topic.

Procedure

On the SAP Integration Suite, managed gateway portal, click **My Configurations** > **Extension Framework**.

The **Extension Framework** page appears.

On this page, view the details of the custom mapping and peform the tasks that you want to do.

Managing the Deployment of Custom Mapping

Context

You can deploy custom mapping to Test and/or Production environments. You can also undeploy custom mapping in Test and/or Production environments. You can deploy and/or undeploy custom mapping using the deploy (✓) button as described in the following procedure.

The custom mappings that are undeployed have ✓ mark, and the custom mappings that are deployed have a ✓ mark with a blue background.

Procedure

1. On the SAP Integration Suite, managed gateway portal, click **My Configurations** > **Extension Framework**.

   The **Extension Framework** page appears.
2. To deploy and/or undeploy a custom mapping, do the following:
   - To deploy a custom mapping, select the custom mapping and click the deploy button (✓ mark) under **Test** or **Prod** to deploy it in the respective environments.
     The mapping gets deployed, and the deploy button gets replaced by an undeploy button (✓ with a blue background).
   - To undeploy a mapping, click the undeploy button (✓ with a blue background) under **Test** or **Prod**.
     The mapping gets undeployed.

Viewing Action Log

Context

To view the the log of deployments and undeployments that you have performed for a custom mapping in the test and the production environments, perform the steps described in this topic.

The following are the typical actions displayed:

- CREATE
- DEPLOY_TEST
- DEPLOY_PROD
- UNDEPLOY_TEST
- UNDEPLOY_PROD

Procedure

1. On the SAP Integration Suite, managed gateway portal, click **My Configurations** > **Extension Framework**.

   The **Extension Framework** page appears.
2. Select a custom mapping and click **Show Actions Log** icon ( ).

   The **Extension Framework Actions Log** dialog opens.
3. View the log of deployments and undeployments that you have performed for the custom mapping in the test and the production environments.

   This information is listed in the following colums on the **Extension Framework Actions Log** dialog.
   - **User**
   - **Action**

- **Version**
- **Date/Time (Time zone)**

4. Click **Close** to close the **Extension Framework Actions Log** dialog.

Managing Versions of Custom Mappings

Context

If required, you can deactivate the latest version of a custom mapping and activate its older version. You can do this task on the **Extension Framework Version Details** dialog.

Procedure

1. On the SAP Integration Suite, managed gateway portal, click **My Configurations** > **Extension Framework** .

   The **Extension Framework** page appears.

2. Select a custom mapping and click **List Versions** icon ( ).

   The **Extension Framework Version Details** dialog opens to display all the versions of the custom mapping for **Test** and **Prod**.

   The custom mapping versions that are undeployed have ✓ mark, and the custom mapping versions that are deployed have a ✓ mark with a blue background.

3. Do one of the following:

   - To deploy an older version, click the ✓ mark next to it.
   - To deactivate the latest version, click the ✓ mark with a blue background.

4. Go back to the **Extension Framework** page and click the icon to synchronize the changes that you made.
5. Click **Close** to close the **Extension Framework Version Details** dialog.

Testing Document Transactions on SAP Integration Suite, Managed Gateway

You can use **Test Central** to test and validate transformation and content of documents configured in the integration. You can create test scripts that are appropriate for your organization with the help of out-of-the-box test scenarios that are available.

To test document transactions for SAP Ariba solutions, perform the following tasks:

- Create test scripts.
- Define master characteristics.

Creating Test Script [page 691]

Defining Master Characteristics [page 693]

Creating Test Script

You can create test scripts outside your project through Test Central.

Creating Test Script

As a buyer, you can use test scripts to test the document transactions for SAP Ariba solutions. Create a test script and add test scenarios to it. You can have multiple test scenarios depending on the documents configured for a project.

Context

Perform the following steps to create a test script:

Procedure

1. Sign in to SAP Integration Suite, managed gateway portal, click the **Navigation** button, and click **Test Central**.

   List of existing test scripts appear.
2. Click **Create a New Test Script**.

   The **Test Script** screen appears.

3. Enter the following information:
    - **Name** - A name that allows you to easily identify the purpose of the test script.
    - **Description** – A short description about the test script.
    - **Customers**: Select Test Central Dummy Supplier to mock the transactions with a supplier. This is a mandatory field.
    - **Execution Start Date** – Enter a date and time when you want to execute this test script.
    - **Document Standard** – Select Add-on as the document standard of the incoming documents.
    - **Product**: Select the solution for which you are setting up the test script.
    - **Document Types**– This lists the document types that are configured for the solution. Select the document types to include in the test script.
4. Click **Apply**.

    The screen lists the mandatory test scenarios that are configured for the selected document types and customers.
5. Click **Add** to associate any optional test scenarios.

    The **Optional Test Scenario** screen appears. The screen lists the optional test scenarios that are configured for the selected document types and customers.
6. Select the test scenarios that you want to add to the test script.
7. Click the **Edit** icon under **Action** column.

    The **Test Cases** screen appears with a list of test cases associated with the test scenario.
8. Click the **Edit** icon under **Action** column.

    The **Characterstics for Test Case** screen appears where you can add or modify the test case values.
9. Click **Add** to add a line and enter the details.
10. Click **Close** to save the values to the test case.
11. Click **Close** to return to the test scenarios list,
12. Save the test script.

Results

The configured test script is executed at the scheduled time. You can check the result of the test by selecting the test script and click **Result**.

> ⓘ Note
>
> You cannot modify a test script. However, you can delete or rerun the test.

Defining Master Characteristics

The master characteristics allow you to asign values to the fields in the document characteristics that were defined by the administrator. Defining master characteristics is not mandatory.

Defining Master Characteristics to Test Your Projects

The master characteristic values are global and applicable to all the test scripts that use the same combination of test scenarios, test cases, and partners that it is defined on.

Context

The master characteristics that you define is used to modify the sample payload. For example, for order type, the user can provide the value as new or update. To define master characteristics, perform the following steps:

Procedure

1. Sign in to SAP Integration Suite, managed gateway portal, click the **Navigation** button, and click **Master Characteristics**.

   The defined document characteristics show up in the **Details** section. The details section is the information for line items.
2. Click **Add** and enter the line item information.

   The validation on each field is done based on what is defined in the document characteristics.
3. Repeat the previous step to add more line items.
4. Click **Save**.

Tracking and Validating Transaction Documents

About Tracking and Validating Transaction Documents [page 694]

About Tracking and Validating Transaction Documents

SAP Integration Suite, managed gateway allows you to track and validate the transaction documents that you send to SAP Ariba solutions.

SAP Integration Suite, managed gateway allows you to:

- Use the *Transaction Tracker* to track the transaction documents that you send and receive from SAP Ariba solutions.
- Use the *Document Validator* to perform schema validation, transformation test, and content validation. This tool validates schema and the content of the source document, tests the mapping transformation, and displays the results.
- Use the *Connectivity Tool* to test your connection with the SAP Ariba solution.

Working with the Transaction Tracker [page 694]

Using Testing Tools [page 697]

Working with the Transaction Tracker

You can use the **Transaction Tracker** to track errors in the transaction documents that you send and receive from SAP Ariba solutions. Track of your transaction documents based on the criteria that you need.

SAP Integration Suite, managed gateway retains the transactional data for 30 days in the test and production environment. If you attempt to search the data for longer periods, the **Transaction Tracker** defaults to only 30 days.

Use the **Transaction Tracker** to:

- Display document details, which contain **Details**, **Activity**, and **Attachment Info**.
- Download the source payload, target payload, attachments, or all the transaction documents.
- Display all documents in a table, that matches your search criteria. The table shows some information about the transaction.
- Download the complete list of search results as CSV.
- Reprocess transactions as a self-service.

SAP Integration Suite, managed gateway allows you to specify the following criteria while searching for transaction documents. Use the search fields as it best fits your needs.

> **Note**
>
> The session saves your search criteria for the next time you return to the monitoring, as long as you are not closing the session.

Search Criteria	Description
Search From	Enter date and time from when the search must start.
To	Enter date and time until which the search must end.
Transaction Number	Enter a complete document number or a substring. Ensure that the search is case-sensitive and you do not use wildcard characters.
Document Status	If you choose to type the status, it has to be an exact match to the values from the pull-down. Otherwise, the search will not find anything. Use the following statuses: • *COMPLETED* Your transaction has been delivered to the final destination. • *ERROR* Your transaction has either been failing during processing or could not be delivered to the final destination. • *FAILED* Your transaction has either been failing during processing or could not be delivered to the final destination. • *PROCESSING* Your transaction is in an active process. The next status would be either *COMPLETED*, *FAILED* or *RETRY*. • *RETRY* Your transaction is in an automatically invoked loop. The delivery to the final destination ended with an error and is now retried 3 times with a timeout of 1 hour between each try. • *DUMPED* This transaction has been dumped. This is a technical acknowledgment that SAP Integration Suite, managed gateway has suppressed (dumped) from sending to your end-point, based on your project settings.
Document Type	Use this option to narrow down search result to a specific document type.
Sender	Enter the name or the AN ID of the sender. **Note** The search is case-sensitive and does not allow wildcard characters.
Receiver	Enter the name or the AN ID of the receiver. **Note** The search is case-sensitive and does not allow wildcard characters.

> **Note**
>
> The date and time in **Transaction Tracker** are displayed according to your browser's time zone.

In the **Document Status** column, the **Failed** status displays a **!** symbol in red color. When you click on this symbol, a popup displays the error.

The errors can be due to the following:

- **XML validation errors (structural or segment errors)**
  The popup displays a **Download** button that allows you to download the document that has validation errors. The downloaded document highlights the following errors:
  - Document Standard – the document standard being passed
  - Application Reference – document in scope
  - Xpath – where the error is located
  - Error Text – the issue with the document and what needs to be fixed
- **Business rules validation errors**
  The popup displays details such as error message, error code, suggested action etc.

Downloading and Reprocessing Transaction Documents [page 696]

Tracking Transaction Documents [page 697]

Downloading and Reprocessing Transaction Documents

SAP Integration Suite, managed gateway allows you to download the transaction documents and reprocess them when there are errors.

Downloading Transaction Documents

You can download the source payload, target payload, and the attachments that are available for the specific transaction. Download single transactions or multiple transactions at a time. Use the check boxes and click **Download** to start your download.

In case of cXML validation errors, you can download the error report from the error message. To view the error message, click the error message icon in the Document Status column. From the error message, click **Download**.

Reprocessing Transactions Documents

You can process the transactions that transactions that failed or you want to run again. When you reprocess a transaction, SAP Ariba generates a new transaction. The new transaction contains the same *Transaction Number* as the initial transaction. Use this *Transaction Number* to search and keep track about all relevant transactions.

To reprocess transactions, select the transactions and click **Reprocess**.

Tracking Transaction Documents

Context

Track and view the status of your transaction documents. You can use search criteria to track your documents.

SAP Ariba processes your document. SAP Integration Suite, managed gateway displays a brief overview of the transactions and their status in the table. To view more details, select the transaction you require.

Procedure

1. Go to **Transaction Tracker**.
2. Fill the form with your search criteria:
   a. *Search From* (date and time)
   b. *To* (date and time)
   c. *Transaction Number*
   d. *Document Status*
   e. *Document Type*
   f. *Sender*
   g. *Receiver*
3. Click **Search**.
4. Analyze the results. If needed, open the document details by selecting the **Transaction Number**.

Next Steps

- You can sort, as well as filter every column and adjust the result to your needs. Download the list of results with **Results Export**.
- If needed, discard all values with **Clear** and enter new criteria as in Step 2.

Using Testing Tools

SAP Integration Suite, managed gateway provides you the tools to test your connections with the SAP Ariba solution and validate transactions to make them error free. You can validate the message structure and ensure that it meets the standard requirements that SAP Ariba requires.

SAP Integration Suite, managed gateway provides the following tools:

- **Connectivity Tool**: Use this tool to check and ensure that your connection to the SAP Ariba solution is working. The connection test is an independent feature that you can use standalone.
  The **Connectivity Tool** tool allows yout test the inbound transactions from your system to SAP Integration Suite, managed gateway, and outbound transactions from SAP Integration Suite, managed gateway to your

backend system. After you run the connection test, SAP Integration Suite, managed gateway displays the status of the test. If there is an error in the connection, the tool displays error message, error codes, and troubleshooting links to address your connectivity issues. You can edit the connection and save the details to start testing the connection.

- **Document Validator**: Use this tool to validate the schema and the content of the source document, tests the mapping transformation, and displays the results.
  You can use the following validation options:
  - **Content Validation**: Validates the source document against SAP Ariba specific requirements, displaying the recommendations in your format.
  - **Transformation**: Transforms the source document into the destination document selected, and includes all the extensions, hotfixes, and customizations done to the document.
  - **Schema Validation**: Performs outbound schema validation to the resultant document of the transformation, providing any schema error in the destination format.

> ### Note
>
> The **Document Validator** tool performs the schema validation on the source messages for all transaction documents, by default. Therefore, it does not display an option for schema validation for source message, in the list of options.

Testing a Connection Using the Connectivity Tool [page 698]

Validating Documents [page 699]

Viewing Validation Errors [page 700]

Testing a Connection Using the Connectivity Tool

Context

You can test the inbound and outbound transactions to SAP ERP or SAP S/4HANA and the SAP Ariba solution using SAP Integration Suite, managed gateway. Ensure that your connections with the solution are SAP Ariba error free.

Procedure

1. Click **Connectivity Tool** from the navigation menu or the dashboard on the **Home** page.

   The **Connectivity Tool** screen appears.
2. In the **Connection Name** field, select a connection.
3. In the **Environment** field, select your environment.
4. In **Direction**, check **Outbound** to test transaction sent from SAP Integration Suite, managed gateway to your backend system.
5. Check **Inbound** to test transaction sent from your backend system to SAP Integration Suite, managed gateway.

The **IP Address** field appears.

6. Enter your IP address in the **IP Address** field.
7. Click **GO**.
   The **Connectivity Tool** tests the connection between your backend system with SAP Integration Suite, managed gateway, and displays the result for outbound and inbound transactions as follows.
8. If your connection test failed and you want to troubleshoot the error, do the following:
   - For **Outbound** connection errors, click **View more details** to view the details of the error. To view your server response, click **View server response**.
   - For **Inbound** connection errors, enter the error code (that appeared in your backend system), in the search box.

   View the following troubleshooting details in the screen that appears:

   - **Symptom**
   - **Problem**
   - **Description**
   - **Solution**

Validating Documents

Context

You can validate the schema and content of the source document, test the mapping transformation, and display the results.

Procedure

1. Select **Document Validator** from the menu or the dashboard.

   The **Document Validator** tool opens.
2. Paste your source message in the **Source Document** field.

   The **Source Document Type** field displays the document standard, version, and type of the source message.

   The tool displays the following validation options:

   - **Content Validation**
   - **Transformation**
   - **Schema Validation**
3. Select the validation options that you want to perform on the source message.
4. Select the corresponding **Target Document Type**.
5. Click **Execute**.

Results

The **Document Validator log** tab displays details such as, step name, status, and step summary.

The **Result Document** tab displays the result message.

Next Steps

To continue another validation with different values, select **Clear**, and start with Step 2.

Viewing Validation Errors

Context

Validate the transaction documents and view details of the validation errors.

Procedure

1. Go to **Document Validator**.
2. Validate the documents. For more information, see Validating Documents [page 699].
3. Go to **Results** > **Document Validator Log** > **Step Summary** .
4. Click the zoom icon under **Step Summary**.

   The screen displays the document that was validated. To improve the visibility of the validation errors, the screen:
   - Displays the number of validation errors, at the top of the document.
   - Highlights the data elements that have errors, in yellow color.
   - Displays the ? symbol in red color, at appropriate places to indicate errors.
   - Displays the error codes and error messages, when a user clicks the ? symbol.

Publishing a Project on SAP Integration Suite, Managed Gateway

About Project Deployment [page 701]

Scheduling and Activating the Project on the Production Environment [page 701]

About Project Deployment

Deploy your project to use it in the production environment.

You can deploy a fully configured project to production. The move to production deploys all newly configured settings. Any existing setting will be retained.

Scheduling and Activating the Project on the Production Environment

Use this procedure to schedule and activate the project on the production environment. This is the final step of a SAP Integration Suite, managed gateway project configuration.

Context

After you have completed all steps of the wizard, the final step is to schedule the deployment to production.

Prerequisite

Ensure that the following prerequisites are met:

- A project is created. For more information, see Creating a Project.
- A connection is configured. For more information, see Configuring a Connection.
- The required cross-reference parameters are configured. For more information, see Setting Up Cross References for SAP Ariba Solutions.
- The configurations are reviewed. For more information, see Reviewing Configuration.

Procedure

1. Navigate to SAP Integration Suite, managed gateway. For more information, see Navigating to SAP Integration Suite, Managed Gateway.

   The **Home** page for SAP Integration Suite, managed gateway portal appears.
2. Click **Edit** from the **Action** column for the project you created.
3. Go to the **Test** step.

   The **Project Self Test Results** page appears.

   > ⓘ Note
   >
   > A tick-mark under the **Pass/Fail** column indicates that the project has passed the self-test.
4. Select **Run Buyer Test** or **Skip Buyer Test**.

   > ⓘ Note
   >
   > If you select the **Skip Buyer Test**, ensure there are no scripts in the **Test Central**, even for a different product or transaction type.
   >
   > You must run at least one successful transaction from the test realm or test ERP system of the same project or a separate project using one of the document flows listed in the **Buyer Test Results** page, such as `PurchaseOrderExportRequest`, `QuoteRequest`, `BusinessPartnerSUITEReplicateRequest`.

   > → Remember
   >
   > It may take up to an hour for scheduler to capture test results in the **Buyer Test Results** page before the **Go Live** button is enabled.
   >
   > Sometimes the **Go Live** button may not be enabled due to browser cache. To resolve this issue, clear browser cache or start a new SAP Integration Suite, managed gateway session in another browser.

   The **Go Live** button is enabled.
5. Specify the date and time to schedule the deployment to production in **Mark Project Active On**.

   > ⓘ Note
   >
   > Do not modify the project starting from five minutes before the scheduled production deployment of the project.
6. Click **Go Live**.

   > ⓘ Note
   >
   > When you click **Go Live**, the status of the project is updated to **Pending Production**. It may take up to 5 minutes for the project to move to production, and you may need to refresh the page to view the **In Production** status.

Monitoring Messages and Troubleshooting Errors

Monitoring Error Messages [page 703]

Monitoring the Inbound Retail Master Data in SAP Retail [page 705]

Forward Error Handling for Inbound Transactions [page 706]

Monitoring Transactions Using the SAP Application Interface Framework [page 724]

Troubleshooting Errors [page 727]

Monitoring Error Messages

Administrators can view the details of the errors that occur while sending the master data or transactional data from the SAP ERP system to the SAP Integration Suite, managed gateway. View the details of the errors using the following:

- Use the transaction code, `SRT_MONI` or `NACE` on the SAP ERP system. For more information, see, Monitoring Error Messages on SAP ERP [page 704].
- Use the Transaction Tracker on SAP Integration Suite, managed gateway. For more information, see, Working with the Transaction Tracker [page 694].

Starting the release 2102 (Q1 2021), you can reprocess the failed inbound transactions from SAP Business Network or SAP Ariba strategic sourcing solutions in the buyer's SAP ERP or SAP S/4HANA. If you have not used Forward Error Handling (FEH) or SAP Application Interface Framework (AIF) for message monitoring, you can reprocess the failed transactions directly from the message monitoring transaction (for example, SRT_MONI).

When an inbound transaction from SAP Business Network or SAP Ariba strategic sourcing solutions fails in the buyer's SAP ERP or SAP S/4HANA, the proxy message fails in the message monitoring transaction. Then, a status update request (SUR) message is sent back to SAP Business Network orSAP Ariba strategic sourcing solutions indicating the failure of the inbound transaction. This enables the buyers to correct the errors and reprocess the transaction from the message monitoring tool

> **Note**
>
> For the failure of inbound transactions because of authorization errors at the buyer's SAP ERP or SAP S/4HANA, a status update request message is not sent to SAP Business Network or SAP Ariba strategic sourcing solutions. However, the proxy message for the inbound transaction fails in the message monitoring tool.

Monitoring Error Messages on SAP ERP [page 704]

Viewing IDoc Errors [page 704]

Viewing Errors Using the SOAMANAGER [page 705]

Monitoring Error Messages on SAP ERP

An administrator can monitor the errors using the transaction code, `SRT_MONI` on the SAP ERP system. Administrators can view the details of the errors that occur while sending the data from the SAP ERP system to the SAP Integration Suite, managed gateway.

Errors can occur when you integrate master data and transactional data. The following are the two types of errors that can occur while integrating master data and transactional data:

- Application error
- System error

An application error occurs when there are inconsistencies in the data that is being imported to the SAP Ariba solution. SAP Ariba recommends that you ensure that the data already exists before you import or export either from your ERP system or the SAP Ariba solution.

A system error occurs when there are network errors due to an incorrect URL address or when the connection to the SAP Ariba solutions is lost.

Buyers can view the processing logs to analyze the errors for master data and transaction documents failures. To view detailed error information, configure the settings for the required master data or transaction data in the **User-Defined Selection** page on the SAP ERP system. You can use the transaction code, `SRT_MONI` or `NACE` on the SAP ERP system to view the errors.

> ### Note
>
> To resend messages from SAP ERP, see Restarting and Canceling ABAP Web Service Messages.

Viewing IDoc Errors

Context

View the IDoc errors on the SAP ERP system.

Procedure

1. Run the transaction code `WE02` on SAP ERP.
2. Enter the search criteria and click **Execute**.

   IDoc List screen appears.
3. If the status is in red, perform the following steps:
   a. Select the IDoc that has errors.

      The error message is displayed in the IDoc status field.
   b. Reprocess the transaction or contact support for assistance.
4. If the status is in green which indicates that the message is sent, perform the steps outlined in Using Transaction Tracker Monitoring Tool.

Viewing Errors Using the SOAMANAGER

Context

View the proxy errors using the SOAMANAGER.

Procedure

1. Run the transaction code `SOAMANAGER`. The SOA MANAGEMENT page appears.
2. Click the **Logs and Traces** tab.
3. Click **Logs/Trace Viewer**.The **Logs/Trace Viewer** page appears.
4. Select the criteria and click **Go**.
5. Click **Advanced** to set more criteria for the trace. The lists of calls with statuses appear.
6. Select a call and the **Call Details** appear.
7. Click the **Trace Records** tab for detailed error information.
8. Reprocess the transaction or contact support for assistance.
9. Run the transaction code `SRTUTIL`. The **Tracing Utilities for Web Services** screen appears.
10. Click the **Message Monitor** and enter the required details.
11. Double-click the failed message to check the details.
12. Reprocess the transaction or contact support for assistance.

Monitoring the Inbound Retail Master Data in SAP Retail

Context

To monitor the inbound retail master data in SAP Retail, do the following:

Procedure

1. On the *SAP Easy Access* page, run the transaction code `WE02`.

   The *IDoc List* page appears.
2. Enter the information required to filter the IDOCs and click **Execute**.

   The page that lists the IDOCs appears.
3. In the left side panel, under IDOCS, expand **Inbound Docs** and do the following:

a. Click **ARTMAS** to view the retail master data of the article received from SAP Ariba Strategic Sourcing Suite.
b. Click **BOMMAT** to view the retail master data of the components received from SAP Ariba Strategic Sourcing Suite.

4. In the *Selected IDocs* page on the right side, double-click the ARTMAS or BOMMAT IDOC record to view its details.

   The *IDoc Display <IDOC number>* page appears.

5. In the left side panel, under *IDoc Display*, expand *Data records* and click the material header segment.
6. In the right side panel, under *Content of Selected Segment*, ensure the following:
   - The *MATERIAL_EXTERNAL* field displays the same number that is displayed in the SAP Ariba Strategic Sourcing Suite.
   - The *OLD_MAT_NO* field of Basic Data that represents the old material number displays the LOT ID of the structured article created in SAP Ariba Strategic Sourcing Suite.
   - The *MARC* segment displays the information about the plant. This field appears only if you have specified the plant for the display set article in SAP Ariba Strategic Sourcing Suite.

Forward Error Handling for Inbound Transactions

About Forward Error Handling Support for Inbound Transactions [page 706]

Enabling the Forward Error Handling Feature [page 708]

Defining Software Components for PPO [page 710]

Assigning a Caller to a Business Process [page 711]

Defining Business Process for PPO [page 713]

Defining Object Types for PPO [page 715]

Assigning ECH to PPO [page 716]

Defining ECH Process Data [page 718]

Verifying the Configurations [page 720]

Configuring Error Messages [page 721]

Displaying and Editing Postprocessing Orders [page 722]

Sending Error Messages Automatically to SAP Ariba Buying and Invoicing for Specific Business Process [page 724]

About Forward Error Handling Support for Inbound Transactions

Forward error handling (FEH) functionality allows the monitoring and processing of errors asynchronously on SAP ERP. When a document sent from an SAP Ariba solution to SAP ERP fails for any reason, it can be checked and processed again on SAP ERP. For example, when a ship notice sent from SAP Business Network fails with the

message `Purchase Order already getting processed`, the buyer can process the document again on SAP ERP.

When FEH is enabled, the error message for every failed inbound transaction is transferred to PostProcessing Office (PPO). Status update request (SUR) for the transaction is sent to the sender when the transaction is successful or when the message is discarded.

With FEH enabled and the business processes configured, if the system detects an error in an inbound transaction, the user can read the message and do one of the following:

- Update the required information and reprocess the transaction. For example, if the error is due to a mapping error, the user can edit the payload and process the transaction again. The user can correct the error and reprocess the transaction until it is successful. An SUR is sent to sender when the transaction is successful.
- Reprocess the transaction immediately. For example, if the error is because the purchase order is still open, the user can submit the transaction for reprocessing. An SUR is sent to sender when the transaction is successful.
- Discard the message in FEH if the sender has to take action on the transaction. In this case, a rejection message is sent to the sender as an SUR.

> **Note**
>
> SAP ERP can process errors using the FEH on receiving the contracts with the document category, scheduling agreement from SAP Ariba Contracts.
>
> In case the contract fails on SAP ERP system, SAP ERP does not send a response automatically to SAP Ariba Contracts. To send a response for the error to SAP Ariba Contracts, customers must go to the error entry in the FEH log file and choose **Discard**.

The feature supports the following asynchronous transactions:

- **For SAP Business Network**
  - Component Acknowledgement
  - Component Consumption
  - Credit Memo
  - Despatch Delivery Notification
  - Liability Transfer
  - Product Replenishment Message
  - Quality Notification
  - Ship Notice
  - Remittance Advice
  - Service Entry Sheet
- **For SAP Ariba Sourcing**
  - Purchase Info Record
  - Quote Message
- **For SAP Ariba Contracts**
  - Scheduling agreements

> **Note**
>
> Starting SAP Integration Suite, managed gateway release version, 2008 (SP 0010) and higher supports forward error handling for transaction document, `QuoteMsgPurchasingContract`.

- **For SAP Ariba Buying and Invoicing**
  - Purchase order (create, change, and cancel)
  - Goods receipt (create and cancel)
  - Advance payment (create and cancel)
  - Service entry sheet (create, cancel, and delete)
  - Invoice (create)

> **Note**
>
> You can view the failed XML documents in the `SXMB_MONI` and `SXI_MONI` transactions. The failed XML documents are indicated using the  icon. For detailed error messages, navigate to the `/n/SAPPO/PPO2` transaction code.

SAP applications use Error and Conflict Handler (ECH) to implement FEH with the use of PPO. The feature is not enabled by default.

Prerequisites

- Ensure that you are on the latest version of SAP Integration Suite, managed gateway.
- Activate FEH.
- Enable FEH for SAP Ariba applications.
- Define software components for PPO.
- Define business processes for PPO.
- Define ECH process data.
- Assign ECH to PPO.
- Assign the caller to a business process.

Limitations

- The feature is supported from EHP4 and above.
- The feature does not support inbound idoc transactions.
- The feature does not support purchase requisition (create) transactions for SAP Ariba Buying and Invoicing.

Enabling the Forward Error Handling Feature

Context

For the Forward Error Handling (FEH) feature to work for Ariba solutions, users must complete the following tasks:

Procedure

1. Activate the forward error handling feature at the global level [page 709].
2. Enable the forward error handling feature for Ariba solutions [page 709].

> **Note**
>
> If the FEH feature is not activated at the global level, the functionality will not be available even if the feature is enabled for the Ariba solutions.

Activating the FEH Feature at Global Level

Context

Users must activate the forward error handling (FEH) feature at the global level to control the system response in case of errors and conflicts in service operations. Users can define whether transactions are executed again or terminated after errors and conflicts. The Error and Conflict Handler (ECH) is used to control the response to business errors and conflicts as part of asynchronous processing.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Cross-Application Components** > **Processes and Tools for Enterprise Applications** > **Enterprise Services** > **Error and Conflict Handler**.
4. Click **IMG-Activity** for **Activate Error and Conflict Handler**.

   The **Change View "Activate ECH for Clients": Details** page appears.
5. Check **Activated** to activate ECH for clients.

Enabling the FEH Feature for SAP Ariba Solutions

Context

Users must enable the **ENABLE_FEH** parameter for the forward error handling (FEH) feature to work for SAP Ariba solutions.

Prerequisite

Ensure that the FEH feature is activated at the global level [page 709].

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Global Settings** > **Support Forward Error Handling**.
4. Click **IMG-Activity** for **Maintain Parameter for Forward Error Handling**.

   The **Parameters - Forward Error Handling** page appears.
5. Maintain the following parameter:

Parameter name	Description	Supported values
ENABLE_FEH	Maintain this parameter to enable or disable forward error handling feature for Ariba solutions.	• **Variable Name**: ENABLE_FEH • **Field Name**: Leave it blank • **Number**: 0000 • **Low**: Set this value to **X** to enable the Forward Error Handling feature for Ariba solutions or leave it blank to keep it disabled.

6. Save the information.

Defining Software Components for PPO

Context

In this activity you define the software components for which you wish to use the PostProcessing Office (PPO) in addition to the software components supplied with the standard system, and also the transaction with which you want the system to start the PostProcessing Desktop. Enter information for the following fields:

- **Software Component** - Define the software component for which you wish to use the PPO. Specify a technical name for the software component. This technical name must be in the customer namespace.
- **Editing Transaction** - Assign a transaction code for initial access to the PPO. Use this transaction to process postprocessing orders. You can have a processing transaction for each software component.
- **Display Transaction** - You use this transaction code to display postprocessing orders. You can store your own display transactions for each software component.
- **Component Description** - Specify a brief description about the component.

Procedure

1. Run the transaction code `SM30`.

   The **Edit Table Views: Initial Screen** screen appears.
2. Enter **`/SAPPO/VS_CMPNT`** for the **Table/View** and click **Display**.

   The **Display View "Software Compoenents (System)": Overview** page appears.
3. Click **Change** and click **New Entries**.

   The **New Entries: Overview of Added Entries** page appears.
4. Enter the following information:

Software Component	Editing Transaction	Display Transaction	Component Description
BNS-ARI-CI-FND	/SAPPO/PP02	/SAPPO/PP03	For example, Ariba Integration Foundation for Common Tools

5. Click **Save**.
6. Return to the **Edit Table Views: Initial Screen** screen.
7. Enter **`/SAPPO/SSAPCMPNT`** for the **Table** and click **Maintain**.

   The **Display View "Software Compoenents": Overview** page appears.
8. Click **Change** and click **New Entries**.

   The **New Entries: Overview of Added Entries** page appears.
9. Enter the following information:

Software Component	Component Description
BNS-ARI-CI-FND	For example, SAP Integration Suite, managed gateway Component

10. Click **Save**.

Assigning a Caller to a Business Process

Context

In this activity, you assign defined components and business processes to your own Application Programming Interface (API). Enter information for the following fields:

- **API Name** - Technical description of the calling API for inbound services used in forward error handling for the Error and Conflict Handler (ECH).
- **API Component** - Description of a component of the calling API. The description specifies the method of a class or an interface.
- **Call Type** - Specify the call type of the calling API. The call type determines whether the call is an asynchronous inbound service (0), an asynchronous outbound service (1), or an asynchronous RFC call by a function module (2).

- **Component**- Specify the application component that causes an error or a conflict in the system.
- **Business Process**- Specify the business process that produces error messages for automatic error handling.

Procedure

1. Run the transaction code `SM30`.

   The **Edit Table Views: Initial Screen** screen appears.
2. Enter **`FEHV_PROXY2CMPR`** for the **Table/View** and click **Display**.

   The **Display View "Mapping from API and API Method to Business Process": Overview** page appears.
3. Click **Change** and click **New Entries**.

   The **New Entries: Overview of Added Entries** page appears.
4. Enter the following information:

API Name	API Component	Call Type	Component	Business Process
II_ARBCIG_DESPATCHED_DELIVERY	DESPATCHED_DELIVERY_NOTIFICTN	Inbound Service	BNS-ARI-CI-FND	ARBCIGSHIP
II_ARBCIG_COMPONENT_ACKNWLEDGE	COMPONENT_ACKNOWLEDGE_REQ_ASYN	Inbound Service	BNS-ARI-CI-FND	ARBCIGCACK
II_ARBCIG_COMPONENT_CONSUMPTN	COMPONENT_CONSUMPTION_REQ_ASYN	Inbound Service	BNS-ARI-CI-FND	ARBCIGCCON
II_ARBCIG_CREDIT_MEMO_PROCESS	CREDIT_MEMO_ATTACH_PROCESS_REQ	Inbound Service	BNS-ARI-CI-FND	ARBCIGCMCL
II_ARBCIG_LIABILITY_TRANSFER	LIABILITY_TRANSFER_REQUEST	Inbound Service	BNS-ARI-CI-FND	ARBCIGLIAB
II_ARBCIG_PRODUCT_REPLENISHMNT	PRODUCT_REPLENISHMENT_REQUEST	Inbound Service	BNS-ARI-CI-FND	ARBCIGPREP
II_ARBCIG_REMITTANCE_ADVICE	REMITTANCE_ADVICE_REQUEST_ASYN	Inbound Service	BNS-ARI-CI-FND	ARBCIGRMAD
II_ARBCIG_SERVICE_ENTRY_SHEET	SERVICE_ENTRY_SHEET_REQUEST	Inbound Service	BNS-ARI-CI-FND	ARBCIGSESR
II_ARBCIG_PURGSCHEDGAGRMT	SCHEDULING_AGREEMENT_ERPREQUES	Inbound Service	BNS-ARI-CI-FND	ARBCIGSAGR
II_ARBCIG_QUALTY_NOTIF_IN	QUALITY_ISSUE_NOTIFICATION	Inbound Service	BNS-ARI-CI-FND	ARBCIGQNOT
II_ARBCIG_QLTY_INSP_RESULT_IN	QUALITY_INSPECTION_RESULT_ASYN	Inbound Service	BNS-ARI-CI-FND	ARBCIGQINS
II_ARBCIG_PURCHASE_INFO_RECORD	PURCHASE_INFO_RECORD_REQUEST	Inbound Service	BNS-ARI-CI-FND	ARBCIGPINF

API Name	API Component	Call Type	Component	Business Process
II_ARBCIG_INVOICE_REQUEST	INVOICE_ERPREQUEST_IN	Inbound Service	BNS-ARI-CI-FND	ARBCIGFINV
II_ARBCIG_QUOTE_PURCH_CONTRACT	QUOTE_MESSAGE_PURCH_CONTRACT	Inbound Service	CA-SOA-ESM-ERP-MISC	PURCONT009
II_ARBCIG_QUOTE_MSG_CONTRACT	QUOTE_MSG_PURCHASING_CONTRACT	Inbound Service	BNS-ARI-CI-FND	ARBCIGQMCO
II_ARBCIG_QUOTE_MSG_PURCHORDER	QUOTE_MSG_PURCHASE_ORDER	Inbound Service	BNS-ARI-CI-FND	ARBCIGQMPO
II_ARBCIG_BUYPURCHORD_CREATE	BUYER_PURCHASE_ORDER_CREATE	Inbound Service	BNS-ARI-CI-FND	ARBCIGBPO
II_ARBCIG_BUYPURCHORD_CHANGE	BUYER_PURCHASE_ORDER_CHANGE	Inbound Service	BNS-ARI-CI-FND	ARBCIGBCPO
II_ARBCIG_BUYPURCHORDER_CANCEL	BUYER_PURCHASE_ORDER_CANCEL	Inbound Service	BNS-ARI-CI-FND	ARBCIGBPOC
II_ARBCIG_BUY_GR_CREATE	BUYER_GR_CREATE_ASYN_IN	Inbound Service	BNS-ARI-CI-FND	ARBCIGBGRV
II_ARBCIG_BUY_ADVPAYMNT_CREATE	BUYER_ADVANCE_PAYMENT_CREATE	Inbound Service	BNS-ARI-CI-FND	ARBCIGBAPA
II_ARBCIG_BUY_ADVPAYMNT_CANCEL	BUYER_ADVANCE_PAYMENT_CANCEL	Inbound Service	BNS-ARI-CI-FND	ARBCIGBACP
II_ARBCIG_BUYER_INVOICE_CREATE	BUYER_INVOICE_CREATE_REQUEST_A	Inbound Service	BNS-ARI-CI-FND	ARBCIGBINV

5. Click **Save**.

Defining Business Process for PPO

Context

In this activity, you define the business processes that you want to assign to components and processes in the PostProcessing Office (PPO). Enter information for the following fields:

- **Software Component** - Specify the software component that you defined.
- **Business Process** - Specify the business processes for the PPO. A business process defines a business-related sequence of actions.
- **Process Description** - Specify the description of a business process.

Procedure

1. Run the transaction code `SM30`.

   The **Edit Table Views: Initial Screen** screen appears.
2. Enter **`/SAPPO/VS_BPROC`** for the **Table/View** and click **Display**.

   The **Display View "Business Process (System)": Overview** page appears.
3. Click **Change** and click **New Entries**.

   The **New Entries: Overview of Added Entries** page appears.
4. Enter the following information:

Software Component	Process	Process Description
BNS-ARI-CI-FND	ARBCIGSHIP	Advance Ship Notice
BNS-ARI-CI-FND	ARBCIGCACK	Component Acknowledgement
BNS-ARI-CI-FND	ARBCIGCCON	Component Consumption Request
BNS-ARI-CI-FND	ARBCIGCMCL	Credit Memo Cancel
BNS-ARI-CI-FND	ARBCIGSAGR	Scheduling Agreement Release
BNS-ARI-CI-FND	ARBCIGLIAB	Liability Transfer
BNS-ARI-CI-FND	ARBCIGPREP	Product Replenishment Message
BNS-ARI-CI-FND	ARBCIGRMAD	Remittance Advice
BNS-ARI-CI-FND	ARBCIGSESR	Service Sheet
BNS-ARI-CI-FND	ARBCIGQNOT	Quality Notification
BNS-ARI-CI-FND	ARBCIGQINS	Quality Inspection
BNS-ARI-CI-FND	ARBCIGPINF	Purchase Info Record
BNS-ARI-CI-FND	PURCONT009	Purchasing Contract ERP Request
BNS-ARI-CI-FND	ARBCIGQMCO	Quote Message to Contract
BNS-ARI-CI-FND	ARBCIGQMPO	Quote Message to Purchase Order
BNS-ARI-CI-FND	ARBCIGFINV	FI and consignment invoices
BNS-ARI-CI-FND	ARBCIGBPO	Purchase Order Export
BNS-ARI-CI-FND	ARBCIGBCPO	Purchase Order Change Export
BNS-ARI-CI-FND	ARBCIGBPOC	Purchase Order Cancel Export
BNS-ARI-CI-FND	ARBCIGBGRV	Goods Receipt Export
BNS-ARI-CI-FND	ARBCIGBAPA	Advance Payment Export
BNS-ARI-CI-FND	ARBCIGBACP	Advance Payment Cancel
BNS-ARI-CI-FND	ARBCIGBINV	Payment Export

5. Click **Save**.

Defining Object Types for PPO

Context

In this activity, you define the object types that you want to assign to components and processes in the PostProcessing Office (PPO). Enter information for the following fields:

- **Component** - Specify the software component that you defined.
- **Object Type** - Specify the object types that you wish to process in the PPO.
- **Internal → External** - Specify the function for conversion from internal to external display.
- **Description** - Specify the description of an object type.

Procedure

1. Run the transaction code `SM30`.

   The **Edit Table Views: Initial Screen** screen appears.
2. Enter **`/SAPPO/VS_OBJECT`** for the **Table/View** and click **Display**.

   The **Display View "Object Types": Overview** page appears.
3. Click **Change** and click **New Entries**.

   The **New Entries: Overview of Added Entries** page appears.
4. Enter the following information:

Component	Object Type	Internal → External	Description
BNS-ARI-CI-FND	ARBCIGSHIP	FEH_STD_CONV_INT_EXT	Advance Ship Notice
BNS-ARI-CI-FND	ARBCIGCACK	FEH_STD_CONV_INT_EXT	Component Acknowledgement
BNS-ARI-CI-FND	ARBCIGCCON	FEH_STD_CONV_INT_EXT	Component Consumption Request
BNS-ARI-CI-FND	ARBCIGSAGR	FEH_STD_CONV_INT_EXT	Scheduling Agreement Release
BNS-ARI-CI-FND	ARBCIGCMCL	FEH_STD_CONV_INT_EXT	Credit Memo Cancel
BNS-ARI-CI-FND	ARBCIGLIAB	FEH_STD_CONV_INT_EXT	Liability Transfer
BNS-ARI-CI-FND	ARBCIGPREP	FEH_STD_CONV_INT_EXT	Product Replenishment Message
BNS-ARI-CI-FND	ARBCIGRMAD	FEH_STD_CONV_INT_EXT	Remittance Advice

Component	Object Type	Internal → External	Description
BNS-ARI-CI-FND	ARBCIGSESR	FEH_STD_CONV_INT_EXT	Service Sheet
BNS-ARI-CI-FND	ARBCIGQNOT	FEH_STD_CONV_INT_EXT	Quality Notification
BNS-ARI-CI-FND	ARBCIGQINS	FEH_STD_CONV_INT_EXT	Quality Inspection
BNS-ARI-CI-FND	ARBCIGPINF	FEH_STD_CONV_INT_EXT	Purchase Info Record
BNS-ARI-CI-FND	PURCONT009	FEH_STD_CONV_INT_EXT	Purchasing Contract ERP Request
BNS-ARI-CI-FND	ARBCIGQMCO	FEH_STD_CONV_INT_EXT	Quote Message to Contract
BNS-ARI-CI-FND	ARBCIGQMPO	FEH_STD_CONV_INT_EXT	Quote Message to Purchase Order
BNS-ARI-CI-FND	ARBCIGFINV	FEH_STD_CONV_INT_EXT	FI and consignment invoices
BNS-ARI-CI-FND	ARBCIGBPO	FEH_STD_CONV_INT_EXT	Purchase Order Export
BNS-ARI-CI-FND	ARBCIGBCPO	FEH_STD_CONV_INT_EXT	Purchase Order Change Export
BNS-ARI-CI-FND	ARBCIGBPOC	FEH_STD_CONV_INT_EXT	Purchase Order Cancel Export
BNS-ARI-CI-FND	ARBCIGBGRV	FEH_STD_CONV_INT_EXT	Goods Receipt Export
BNS-ARI-CI-FND	ARBCIGBAPA	FEH_STD_CONV_INT_EXT	Advance Payment Export
BNS-ARI-CI-FND	ARBCIGBACP	FEH_STD_CONV_INT_EXT	Advance Payment Cancel
BNS-ARI-CI-FND	ARBCIGBINV	FEH_STD_CONV_INT_EXT	Payment Export

5. Click **Save**.

Assigning ECH to PPO

Context

In this activity you define the business processes that you want to assign to components and processes in the PostProcessing Office (PPO). Enter information for the following fields:

- **Component** - Application component that causes an error or a conflict in the system.
- **Business Process** - Business process that produces error messages for automatic error handling.
- **Software Component (PPO)**- Software component for postprocessing processes that are stored with the error and conflict handler (ECH).
- **Business Process (PPO)**- Process for postprocessing processes that are stored with the error and conflict handler (ECH).

Procedure

1. Run the transaction code `SM30`.

   The **Edit Table Views: Initial Screen** screen appears.
2. Enter **ECHS_PP_PROCESS** for the **Table/View** and click **Display**.

   The **Display View"SAP Postprocessing (Bijection ECH ↔ PPO)": Overview** page appears.
3. Click **Change** and click **New Entries**.

   The **New Entries: Overview of Added Entries** page appears.
4. Enter the following information:

Component	Business Process	Software Component (PPO)	Business Process (PPO)
BNS-ARI-CI-FND	ARBCIGSHIP	BNS-ARI-CI-FND	ARBCIGSHIP
BNS-ARI-CI-FND	ARBCIGCACK	BNS-ARI-CI-FND	ARBCIGCACK
BNS-ARI-CI-FND	ARBCIGCCON	BNS-ARI-CI-FND	ARBCIGCCON
BNS-ARI-CI-FND	ARBCIGCMCL	BNS-ARI-CI-FND	ARBCIGCMCL
BNS-ARI-CI-FND	ARBCIGSAGR	BNS-ARI-CI-FND	ARBCIGSAGR
BNS-ARI-CI-FND	ARBCIGLIAB	BNS-ARI-CI-FND	ARBCIGLIAB
BNS-ARI-CI-FND	ARBCIGPREP	BNS-ARI-CI-FND	ARBCIGPREP
BNS-ARI-CI-FND	ARBCIGRMAD	BNS-ARI-CI-FND	ARBCIGRMAD
BNS-ARI-CI-FND	ARBCIGSESR	BNS-ARI-CI-FND	ARBCIGSESR
BNS-ARI-CI-FND	ARBCIGQNOT	BNS-ARI-CI-FND	ARBCIGQNOT
BNS-ARI-CI-FND	ARBCIGQINS	BNS-ARI-CI-FND	ARBCIGQINS
BNS-ARI-CI-FND	ARBCIGPINF	BNS-ARI-CI-FND	ARBCIGPINF
BNS-ARI-CI-FND	PURCONT009	BNS-ARI-CI-FND	PURCONT009
BNS-ARI-CI-FND	ARBCIGQMCO	BNS-ARI-CI-FND	ARBCIGQMCO
BNS-ARI-CI-FND	ARBCIGQMPO	BNS-ARI-CI-FND	ARBCIGQMPO
BNS-ARI-CI-FND	ARBCIGFINV	BNS-ARI-CI-FND	ARBCIGFINV
BNS-ARI-CI-FND	ARBCIGBPO	BNS-ARI-CI-FND	ARBCIGBPO
BNS-ARI-CI-FND	ARBCIGBCPO	BNS-ARI-CI-FND	ARBCIGBCPO

Component	Business Process	Software Component (PPO)	Business Process (PPO)
BNS-ARI-CI-FND	ARBCIGBPOC	BNS-ARI-CI-FND	ARBCIGBPOC
BNS-ARI-CI-FND	ARBCIGBGRV	BNS-ARI-CI-FND	ARBCIGBGRV
BNS-ARI-CI-FND	ARBCIGBAPA	BNS-ARI-CI-FND	ARBCIGBAPA
BNS-ARI-CI-FND	ARBCIGBACP	BNS-ARI-CI-FND	ARBCIGBACP
BNS-ARI-CI-FND	ARBCIGBINV	BNS-ARI-CI-FND	ARBCIGBINV

5. Click **Save**.

Defining ECH Process Data

Context

In this activity you define the business processes that you want to use instead of or in addition to those in the standard delivery of the Error and Conflict Handler. You use this activity to overwrite the standard entries with your own entries. Enter information for the following fields:

- **Component** - Application component that causes an error or a conflict in the system.
- **Business Process** - Business process that produces error messages for automatic error handling.
- **Action Class** - Class provided by the error and conflict handling application.
- **Notification** - This is an optional field. Callback class provided by the Error and Conflict Handler (ECH) application, and implemented by the interface `IF_ECH_NOTIFICATION`. The ECH calls up the corresponding method for the callback class when you close a PPO order.
- **Business Process Description** - The business process description.

> **Note**
>
> If you define your own entries here, you must also do so in the following activities:
>
> - Defining Business Processes for Postprocessing Office [page 713]
> - Assigning Caller to a Business Process [page 711]

Procedure

1. Run the transaction code `SPRO`.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Cross-Application Components** > **Processes and Tools for Enterprise Applications** > **Enterprise Services** > **Error and Conflict Handler**.

4. Click **IMG-Activity** for **Create Process for a Service Operation**.

   The **Create Process for a Service Operation** page appears.

5. Click **Process Data**

   The **Display View "Process Data for Error and Conflict Handler": Overview** page appears.

6. Click **Change** and click **New Entries**.

   The **New Entries: Details of Added Entries** page appears.

7. Enter the following information:

Software Component	Business Process	Action Class	Process Description
BNS-ARI-CI-FND	ARBCIGSHIP	CL_ARBCIG_ACTION_DSPTCHDELIVRY	Advance Ship Notice
BNS-ARI-CI-FND	ARBCIGCACK	CL_ARBCIG_ACTION_CMPNACKNLDG	Component Acknowledgement
BNS-ARI-CI-FND	ARBCIGCCON	CL_ARBCIG_ACTION_CMPNCNSMPN	Component Consumption Request
BNS-ARI-CI-FND	ARBCIGCMCL	CL_ARBCIG_ACTION_CREDITMEMO	Credit Memo Cancel
BNS-ARI-CI-FND	ARBCIGSAGR	CL_ARBCIG_ACTION_SAGR	Scheduling Agreement Release
BNS-ARI-CI-FND	ARBCIGLIAB	CL_ARBCIG_ACTION_LIABLTYTRNSFR	Liability Transfer
BNS-ARI-CI-FND	ARBCIGPREP	CL_ARBCIG_ACTION_PRDCTREPLNSH	Product Replenishment Message
BNS-ARI-CI-FND	ARBCIGRMAD	CL_ARBCIG_ACTION_RMTNCADVICE	Remittance Advice
BNS-ARI-CI-FND	ARBCIGSESR	CL_ARBCIG_ACTION_SRVENTRYSHEE	Service Sheet
BNS-ARI-CI-FND	ARBCIGQNOT	CL_ARBCIG_ACTION_QUALTYISSUEN	Quality Notification
BNS-ARI-CI-FND	ARBCIGQINS	CL_ARBCIG_ACTION_QUALITYINSPEC	Quality Inspection
BNS-ARI-CI-FND	PURCONT009	CL_SE_PUR_PURGCONTRMNTRQ1	Purchasing Contract ERP Request
BNS-ARI-CI-FND	ARBCIGQMCO	CL_ARBCIG_ACTION_QMTOCON	Quote Message to Contract
BNS-ARI-CI-FND	ARBCIGQMPO	CL_ARBCIG_ACTION_QMTOPO	Quote Message to Purchase Order
BNS-ARI-CI-FND	ARBCIGFINV	CL_ARBCIG_ACTION_FIINVOICE	FI and consignment invoices

Software Component	Business Process	Action Class	Process Description
BNS-ARI-CI-FND	ARBCIGBPO	CL_ARBCIG_ACTION_BUYPO	Purchase Order Export
BNS-ARI-CI-FND	ARBCIGBCPO	CL_ARBCIG_ACTION_BUYCPO	Purchase Order Change Export
BNS-ARI-CI-FND	ARBCIGBPOC	CL_ARBCIG_ACTION_BUYPOC	Purchase Order Cancel Export
BNS-ARI-CI-FND	ARBCIGBGRV	CL_ARBCIG_ACTION_BUYGR	Goods Receipt Export
BNS-ARI-CI-FND	ARBCIGBAPA	CL_ARBCIG_ACTION_BUYADVPAY	Advance Payment Export
BNS-ARI-CI-FND	ARBCIGBACP	CL_ARBCIG_ACTION_BUYADVPAYCANC	Advance Payment Cancel
BNS-ARI-CI-FND	ARBCIGBINV	CL_ARBCIG_ACTION_BUYINV	Payment Request Export

8. Click **Save**.

Verifying the Configurations

Context

After you have configured all the settings, you can verify them using the `/SAPPO/SYS_VALUES_DISPLAY` program.

Procedure

1. Run the transaction code `SE38`.

   The **ABAP Editor: Initial Screen** screen appears.
2. Enter `/SAPPO/SYS_VALUES_DISPLAY` as the name of the **Program**.
3. Click **Execute**

   The **Display System Settings** page appears.
4. Select **Software Components** and click **Execute**.
5. Verify whether the configured entries are available or not.
6. Return to **Display System Settings** page
7. Repeat steps 4 and 5 for each of the following settings:
   - **Business Processes**
   - **Object Types**

Configuring Error Messages

The error messages are categorized into processing errors (PRE), determination and conversion (DCE), and error conflict (CON). You cannot add or delete an error category. However, you can configure error messages for each error category.

Context

Configure an error message for an error category. Enter information for the following fields:

- **Application Area** - Specify the application area of the error message that you want to configure.
- **MsgNo** - Specify the message number of the error message.
- **Error Category** - Specify a value corresponding to the error category.

Error Category	Description	Value
Processing error (PRE)	Authorization error	PRE.AUE
	Value error	PRE.VAE
Determination and conversion (DCE)	Internal term error	DCE.ITE
Error conflict (CON)	Unknown reference conflict	CON.URC

> **Note**
>
> This is an optional configuration and applies to SAP Ariba Buying and Invoicing.

Procedure

1. Run the transaction code `SM30`.

   The **Table View Maintenance: Initial Screen** page appears.
2. In the **Table/View** field, enter **`ARBCIG_ECFEHBUY`** and click **Maintain**.

   The **Display View "Error Categorization FEH Buyer": Overview** page appears.
3. Click **New Entries**.

   The **New Entries: Overview of Added Entries** page appears.
4. Enter the application area, message number, and error category.

For example:

Table 49:

Application Area	MsgNo	Error Category
RW	011	PRE.VAE

5. Click **Save**.

Results

The error message that you have configured appears under the transaction code `SE91`.

Displaying and Editing Postprocessing Orders

You can use this function to display or edit postprocessing orders. Define the selection criteria for the postprocessing orders that you want to display or process. All the attributes or control parameters for a postprocessing order are available as selection criteria in addition to comments and the processing method. You have the following options to handle errors:

- **Repeat**: Use this option to enable the automatic or manual resubmission of failed actions.
- **Confirm**: Use this option if you can solve the problem without an additional service call, for example, with a workaround.
- **Discard**: Use this option if the transaction cannot be processed, for example, because of incorrect data.

> ⓘ Note
>
> Forward error handling (FEH) for SAP Ariba Buying and Invoicing only supports **Repeat** and **Discard**.

You can use the following transaction codes to display or edit postprocessing orders:

- For SAP EHP4 or SAP EHP5, use `/N/SAPPO/PPO2`.
- For SAP EHP6 and higher, use `ECH_MONI_SEL`.

Displaying and Editing Postprocessing Orders on EHP4 and EHP5 [page 722]

Displaying and Editing Postprocessing Orders on SAP EHP6 and Higher [page 723]

Displaying and Editing Postprocessing Orders on EHP4 and EHP5

Context

If you are using SAP EHP4 or SAP EHP5, you can use `/N/SAPPO/PPO2` trasaction code to display or edit postprocessing orders.

Procedure

1. Run the transaction code `/N/SAPPO/PPO2`.

   The **Postprocessing Desktop - Edit Order: Initial Screen** screen appears.
2. Enter the relevant selection criteria in the **Selection Options** group box. For example, enter the following values:

- **Software Components**: `BNS-ARI-CI-FND`
- **Business Process**: Specify a business process value for the mentioned software component.
- **Order Asssignment**: Specify `2 - All Orders`

3. Click **Execute**.

   The **Postprocessing Desktop - Edit Order: Overview** page appears with a list of the postprocessing orders that meets the selection or filter criteria. The postprocessing orders are sorted by the main object on the first level, and by business process on the second level. On the third level, you can sort them by any other selection criteria according to your requirements.
4. Select a postprocessing order and select **Display Details** from the context menu.
5. Execute one of the following actions for the postprocessing order:
   - **Repeat**
   - **Confirm**
   - **Discard**

Displaying and Editing Postprocessing Orders on SAP EHP6 and Higher

Context

If you are using SAP EHP6 or higher, you can use `ECH_MONI_SEL` trasaction code to display or edit postprocessing orders.

Procedure

1. Run the transaction code `ECH_MONI_SEL`.

   The **Error and Conflict Handler: Process Postprocessing Orders** screen appears.
2. Click the **Error and Conflict Handler** tab.
3. Enter the relevant selection criteria. For example, enter the following values:
   - **Component**: `BNS-ARI-CI-FND`
   - **Business Process**: Specify a business process value for the mentioned software component.
   - **Order Asssignment**: Specify `2 - All Orders`
4. Click **Execute**.

   The **Postprocessing Desktop - Edit Order** page appears with a list of the postprocessing orders that meets the selection or filter criteria. The postprocessing orders are sorted by the main object on the first level, and by business process on the second level. On the third level, you can sort them by any other selection criteria according to your requirements.
5. Select a postprocessing order and select **Display Details** from the context menu.
6. Execute one of the following actions for the postprocessing order:

- **Repeat**
- **Confirm**
- **Discard**

Sending Error Messages Automatically to SAP Ariba Buying and Invoicing for Specific Business Process

You can automate sending error messages directly from SAP ERP to SAP Ariba Buying and Invoicing when forward error handling (FEH) is active. To do this, disable FEH for the required business process. To disable FEH, see SAP Note 3315174.

Monitoring Transactions Using the SAP Application Interface Framework

The buyers can monitor the error and the success messages of different transactions using the SAP Application Interface Framework tool.

Implementing Business Configuration Set to Customize SAP Application Interface Framework [page 724]

Customizing SAP Application Interface Framework to Generate Interface Name and Structure for IDocs to Integrate with SAP Ariba Solutions [page 725]

Sending the Status Update Request Messages for SAP Integration Suite, Managed Gateway Interfaces from SAP Application Interface Framework [page 726]

Customizing SAP Application Interface Framework to Integrate with SAP Retail Using SAP Integration Suite, Managed Gateway [page 726]

Implementing Business Configuration Set to Customize SAP Application Interface Framework

Context

The customizations to SAP Application Interface Framework to integrate with SAP Ariba solutions using SAP Integration Suite, managed gateway is delivered through a Business Configuration Set (BC Set)

> **Note**
>
> The customization is available only for:
>
> - SAP S/4HANA 1610 or higher and SAP Integration Suite, managed gateway, Release 2008 (Q3 2020) or higher

- SAP ERP 6.0 EHP6 or higher and SAP Integration Suite, managed gateway, Release 2108 (Q3 2021) or higher

.

Procedure

Follow the instructions in SAP Note: 2939098.

Customizing SAP Application Interface Framework to Generate Interface Name and Structure for IDocs to Integrate with SAP Ariba Solutions

Prerequisites

Complete the task mentioned in Implementing Business Configuration Set to Customize SAP Application Interface Framework [page 724].

Context

The instructions to customize SAP Application Interface Framework to generate Interface Name and Structure for IDocs to integrate with SAP Ariba solutions using SAP Integration Suite, managed gateway is available in 2940759.

Procedure

Follow the instructions in SAP Note: 2940759.

Sending the Status Update Request Messages for SAP Integration Suite, Managed Gateway Interfaces from SAP Application Interface Framework

Prerequisites

- Complete the task mentioned in Implementing Business Configuration Set to Customize SAP Application Interface Framework [page 724].
- Ensure that you are on:
  - SAP S/4HANA 1809 or higher and SAP Integration Suite, managed gateway, Release 2008 (Q3 2020) or higher
  - SAP ERP 6.0 EHP6 or higher and SAP Integration Suite, managed gateway, Release 2108 (Q3 2021) or higher

Context

When the error messages in SAP Application Interface Framework are canceled or processed, the status update request messages must be sent to SAP Business Network or SAP Ariba strategic sourcing solutions.

Procedure

Follow the instructions in SAP Note: 2939184.

Customizing SAP Application Interface Framework to Integrate with SAP Retail Using SAP Integration Suite, Managed Gateway

Context

The customizations to SAP Application Interface Framework to integrate with SAP Retail using SAP Integration Suite, managed gateway is delivered through a Business Configuration Set (BC Set)

> **Note**
>
> The customization is available only for:
>
> - SAP S/4HANA 1610 or higher and SAP Integration Suite, managed gateway, Release 2008 (Q3 2020) or higher
> - SAP ERP 6.0 EHP6 or higher and SAP Integration Suite, managed gateway, Release 2108 (Q3 2021) or higher

.

Procedure

Follow the instructions in SAP Note: 2952941.

Troubleshooting Errors

This section covers some of the common errors that you can encounter while integrating an SAP Ariba solution with SAP Integration Suite, managed gateway.

SSL Handshake Overview [page 727]

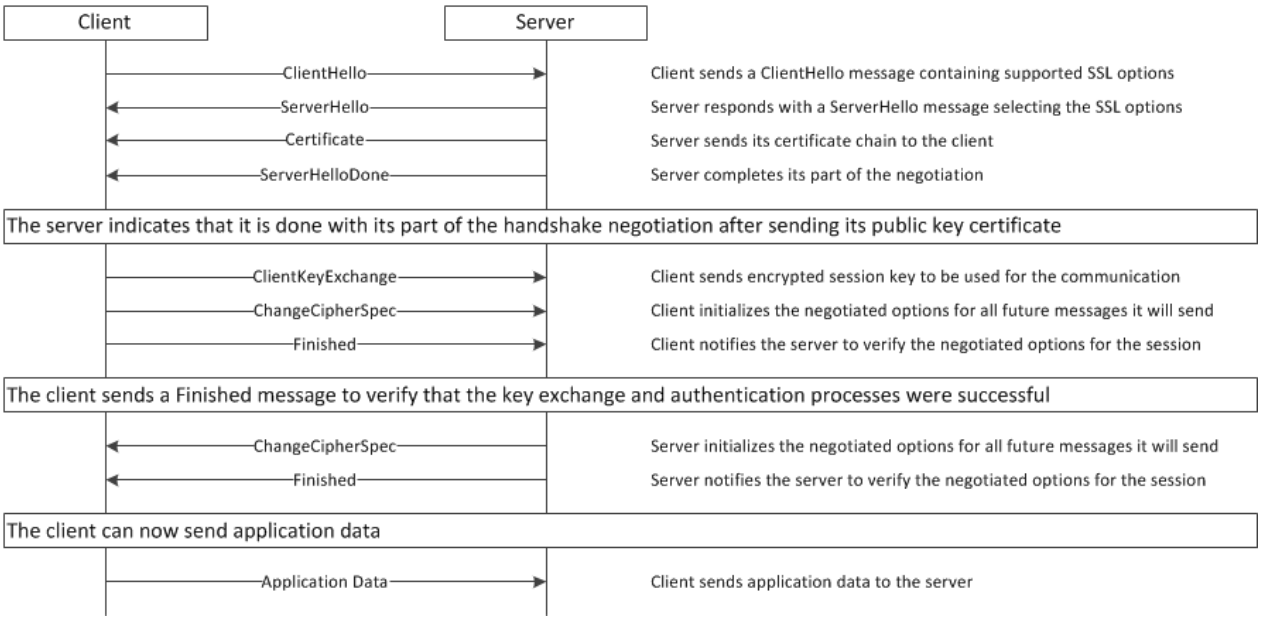
General SSL Errors [page 730]

SSL Handshake Overview

SSL communication consists of a series of messages exchanged between two parties (client and server).

The SSL handshake between a client and server consists of nine steps, and appears as follows:

The SSL messages determine the parameters of the encrypted communication channel that the two parties plan to use. It is important that the client and server agree on the message details, such as the protocol version, cipher suites, secure renegotiation, or client certificate requests. Otherwise the handshake fails.



The SSL handshake has the following messaging components:

ClientHello

When a client first attempts to connect to an SSL server, it initiates the session by sending a `ClientHello` message to the server. The `ClientHello` message starts the SSL communication between the two systems.

The `ClientHello` message contains some of the following components:

Component	Content
Version	The version field contains the highest SSL version that the client supports.
Random	A random number generated by the client.
Session ID	An arbitrary sequence of bytes chosen by the server; it identifies a particular SSL session. The client may attempt to resume a previously established session by sending a non-zero session ID.
Cipher Suites	Identifies the list of ciphers suites that the client supports.
Compression	Identifies the list of compression methods that the client supports.

ServerHello

If the server is able to find an acceptable set of algorithms, it responds to the `ClientHello` message with a ServerHello message. The server may use the `ServerHello` message to allow a resumed session.

The `ServerHello` message contains some of the following components:

Component	Content
Version	The version field contains the highest SSL version supported by both the client and server.
Random	A random number generated by the server.
Session ID	Identifies a particular SSL session. If the client sends a non-zero session ID and the server locates a match in its cache, the server attempts to respond with the same value as was supplied by the client, and resume the session using the same cipher suite.
Cipher Suites	Identifies the cipher suite chosen by the server from the list of ciphers that the client supports.
Compression	Identifies the compression method chosen by the server from the list that the client supports.

Certificate

The server sends its `Certificate` message containing the server's certificate or list of (chain) certificates, depending on the selected cipher suite.

ServerHelloDone

After sending its certificate, the server sends a `ServerHelloDone` message, indicating it is done with handshake negotiation.

ClientKeyExchange

The client sends the `ClientKeyExchange` message containing the `PreMasterSecret`. The `PreMasterSecret` is sent encrypted using the public key of the server.

`ChangeCipherSpec`

Both the client and server send the `ChangeCipherSpec` message after the security parameters have been determined. The ChangeCipherSpec message activates the negotiated SSL options for the session. From this point forward, all messages are authenticated and encrypted. This stage is significant as it indicates that subsequent records are protected under the newly negotiated `CipherSpec` and keys.

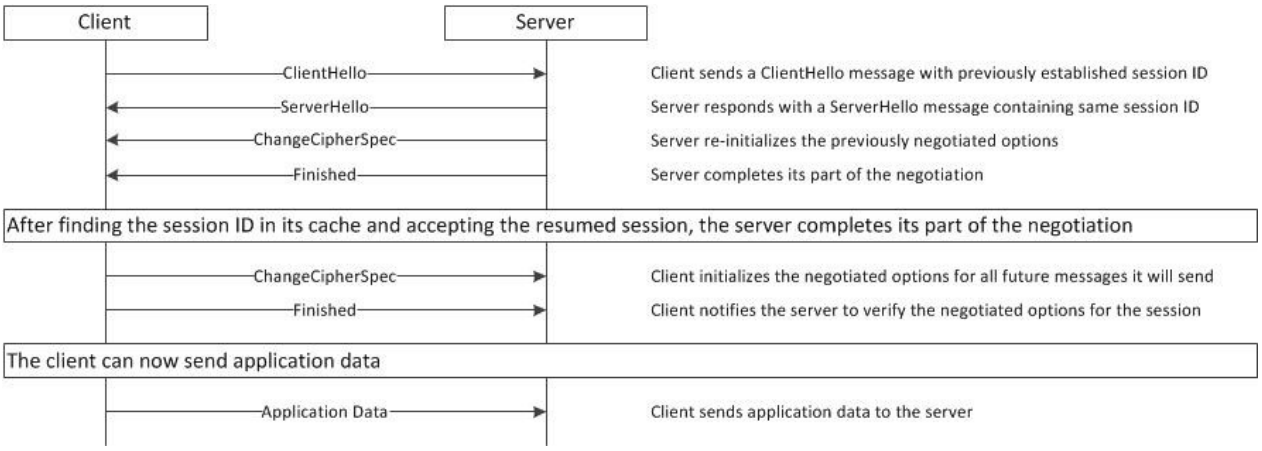
Finished

Each party sends a finished message under the new algorithm, keys, and secrets. The Finished message indicates that the handshake is complete, and the parties may begin to exchange application layer data.

Resumed SSL Sessions

A resumed SSL session implements session identifier (session ID) to reestablish a previously negotiated session. When an SSL handshake is resumed, the client presents the session ID from the previously negotiated session. If the server finds the session ID in its cache and accepts the resumed session, it sends back the same session ID and the parties skip the public key operation. If the server does

not accept the resumed session, it issues a new session ID and implements the full SSL handshake.



General SSL Errors

Record Version Mismatch: 02

This error could indicate that the client and server do not agree on the level of SSL to use (SSLv2, SSLv3, TLS). To check if a remote server supports a particular version, use OpenSSL to run the following command (which actually checks if SSLv2 is supported): `>openssl s_client -connect hostname:443 -ssl2`

If you get the following response, SSLv2 is disabled:

- 419:error:1407F0E5:SSL routines:SSL2_WRITE:ssl handshake failure:s2_pkt.c:428:
- 420:error:1406D0B8:SSL routines:GET_SERVER_HELLO:no cipher list:s2_clnt.c:450:

Peer Sent Alert: Alert Fatal: Bad Certificate

This error can occur when the SSL server is presenting an empty CA list, which causes the client to not present its certificate at all.

Iaik.pkcs.PKCSException Javax.crypto.BadPaddingException: Unknown Blocktype

This error might be caused by a configuration where the private key and certificate do not match (that is, they are not a pair).

Server Certificate Rejected by ChainVerifier

Client was presented a certificate chain that it does not trust.

Here are potential causes and corrections:

Cause	Correction
The remote server's chain is not trusted	add the root CA certificate (or at least some intermediate CA certificate from that chain) to the Client truststore
The remote server is presenting a chain with an expired CA certificate	
The remote server is presenting a chain that is out of order	Per RFC 2246, a certificate chain that looks like this: `subjectCert > intermediateCAcert > rootCAcert` can be handed out as: `subjectCert > intermediateCAcert > rootCAcert` or `subjectCert > intermediateCAcert`. To test if a remote server's chain is out of order, use the following command: `> openssl s_client -connect hostname:port -verify 6 -showcerts` This command prints each certificate in the order it was presented. Upon examination, the certificate's issuer should match the next certificate's subject, until the root is reached. The root CA certificate's issuer equals its own subject. To resolve, the remote server administrator should reconfigure the chain being handed out.

Network Troubleshooting Techniques and Utilities

When troubleshooting network-related troubleshooting, you can use the following techniques and utilities (often core OS-provided executables) to help diagnose the cause.

Ipconfig / Ifconfig

The ipconfig command (on Windows) or ifconfig command (on UNIX) provides the simplest means to list network interfaces, including IP addresses for a given host.

For example, on Windows:

Sample Code

```
D:\>ipconfig
Windows IP Configuration ...
Ethernet adapter Interface 1: Connection-specific DNS Suffix . :
IP Address. . . . . . . . . . . . : 192.168.1.102
Subnet Mask . . . . . . . . . . . : 255.255.255.0
Default Gateway . . . . . . . . . : 192.168.1.1
```

```
Ethernet adapter Interface 2: Media State . . . . . . . . . . . : Media
disconnected.
```

Using `ipconfig /all` gives the full details of each interface (including DHCP settings and DNS server).

Ping

The ping utility is the simplest means to test network connectivity to a given IP address (either local or remote).

For example, on Windows:

Sample Code

```
D:\>ping myPartner.com
Pinging myPartner.com [69.147.125.65] with 32 bytes of data:
Reply from 69.147.125.65: bytes=32 time=19ms TTL=54
Reply from 69.147.125.65: bytes=32 time=39ms TTL=54
Reply from 69.147.125.65: bytes=32 time=27ms TTL=54
Reply from 69.147.125.65: bytes=32 time=28ms TTL=54
Ping statistics for 69.147.125.65: Packets: Sent = 4, Received = 4, Lost = 0 (0%
loss), Approximate round trip times in milli-seconds: Minimum = 19ms, Maximum =
39ms, Average = 28ms
```

Netstat

The `netstat` command can serve two primary purposes:

- It lists the various port numbers in use on the current host (for example, 443, 80) and their current state (for example, LISTENING); and
- It lists the various connections to and from this host and its various ports

Occasionally, corporate networks may be configured to only allow certain types of traffic (for example, HTTP or FTP) and a ping request fails. But typically, if a tcp-level ping works, then the foundation is there for other communications protocols to work.

Telnet

Like the ping command, the telnet command can be used to test network connectivity to a given IP address and port on that IP address (either local or remote).

For example, from a Windows host, the following telnet response indicates that the local telnet client could not find a listening port 1520 on host myOracleHost:

Sample Code

```
D:\>telnet myOracleHost 1520
Connecting To myOracleHost...
```

```
Could not open connection to the host, on port 1520: Connect failed
```

But if that telnet command was pointed to a proper port number (for example, 1521), the console would clear (indicating the telnet session was established, and the client is awaiting the user to key in commands). In this sense, we are using telnet like a ping, but to a specific port number

Source IP Address

Every tcp request has a source IP address (that is, a "from" address) included on it when it reaches its destination. This address most likely is not the IP address shown when issuing an ipconfig command on the originating host. Instead it is an "outbound" address, set by the network's Default Gateway or outbound proxy server. This information may be useful when the server-side network or application does IP-level filtering. There are public sites on the internet (for example, http://whatismyip.com) to which a browser can be pointed at, to provide this "outbound" IP address.

Intermittent Behaviors

Anytime there is an intermittent behavior (for example, a connection cannot be established, an established connection times out, or a request cannot find a desired resource), there could be numerous factors involved. But some common causes to keep in mind or investigate are:

- Timeout settings throughout the connection: settings on the client application, on the sending application, on components in between (such as firewall, proxy servers, load balancers) the two, etc.
- Request data sizes: consider the possibility that larger requests are causing a timeout in one of the components.
- Load-balancer presence: it could be that requests that are routed to one server node always work, but those routed to a second server node do not. To a client, this looks like an "intermittent failure".

Troubleshooting Common Connection Errors

Procedure

1. Check if there was a recent change or upgrade.

   If your server has stopped working after a recent upgrade it's possible that there might have been recent changes happened at your end. Verify with your technical- or network-team if there are any recent changes.
2. Check that you are using the correct URL.

   Ensure that your application has the correct URL defined (including the https protocol) to connect to SAP Integration Suite, managed gateway.
3. Connection reset / Connection refused / Connection timeout.

The http connection to the destination could not be established. This can be caused by missing Firewall clearances on the sender or receiver side or due to incorrect URLs in the communication channel.

HTTP Error Codes Overview

HTTP errors are often caused by incorrect URLs, AS2 names, interconnected proxy servers, or too slow processing in a system. When accessing an application, every HTTP request that is received by a server is responded to with an HTTP status code. HTTP status codes are three-digit codes, and are grouped into five different classes.

The class of a status code can be quickly identified by its first digit:

- 1xx: Informational
- 2xx: Success
- 3xx: Redirection
- 4xx: Client Error
- 5xx: Server Error

> **Note**
>
> Only the error codes 4xx and 5xx are described in the next chapters.

Client Error Overview

Client errors, or HTTP status codes from 400 to 499, are the result of HTTP requests sent by a HTTP client. Even though these types of errors are client-related, it is often useful to know which error code a user is encountering to determine if the potential issue can be fixed by server configuration.

Error Code	Description
400 Bad Request	The 400 status code, or Bad Request error, means the HTTP request that was sent to the server has invalid syntax.
401 Unauthorized	The 401 status code, or an Unauthorized error, means that the user trying to access the resource has not been authenticated or has not been authenticated correctly. This means that the user must provide credentials to be able to view the protected resource. An example scenario where a 401 Unauthorized error would be returned is if a user tries to access a resource that is protected by HTTP authentication if enters invalid user name and password.
403 Forbidden	The 403 status code, or a Forbidden error, means that the user made a valid request but the server is refusing to serve the request, due to a lack of permission to access the requested resource.
404 Not Found	The 404 status code, or a Not Found error, means that the user is able to communicate with the server but it is unable to locate the requested resource.

Server Error Overview

Server errors, or HTTP status codes from 500 to 599, are returned by server when it is aware that an error has occurred or is otherwise not able to process the request.

Error Code	Description
500 Internal Server Error	The 500 status code, or Internal Server Error, means that server cannot process the request for an unknown reason. Sometimes this code appears when more specific 5xx errors are more appropriate.
502 Bad Gateway	The 502 status code, or Bad Gateway error, means that the server is a gateway or proxy server, and it is not receiving a valid response from the backend servers that should actually fulfill the request.
503 Service Unavailable	The 503 status code, or Service Unavailable error, means that the server is overloaded or under maintenance. This error implies that the service should become available at some point.
504 Gateway Timeout	The 504 status code, or Gateway Timeout error, means that the server is a gateway or proxy server, and it is not receiving a response from the backend servers within the allowed time period.

Exporting Business Data

Customers can obtain their business data from the **Data Export** tab of the SAP Integration Suite, managed gateway portal.

Context

Exporting business data is helpful when you switch from one data center to another, change service providers, or stop a specific service for a certain period. For more information, see Exporting Business Data.

Procedure

1. On the **Home** page of SAP Integration Suite, managed gateway portal, click **My Configurations** > **Data Export.**
2. In the **Items to Include** section, select the data to be exported.
3. In the **Zip File Password** field, enter a password for the ZIP file.

   > ### Note
   >
   > The password must be compliant with SAP Ariba security standards and must contain 6 to 255 characters in length, a number, an uppercase and a lowercase alphabets, and a special character.

   Use this password to open the exported ZIP file.
4. Click **Export all Configuration Data**.

   The ZIP file can be decrypted using archiver programs such as WinRAR and 7-Zip.

Managing Endpoints

You can configure the endpoints (test environments) for SAP Fieldglass tenants in the **Endpoints** tab of SAP Integration Suite, managed gateway. The host names of the endpoints are predefined, and you can select an endpoint from the **Endpoint** dropdown.

> ⓘ Note
>
> The production environment host name for integration with SAP Ariba applications is preconfigured in SAP Integration Suite, managed gateway.

You can configure multiple document types for an endpoint. However, document types (standalone or in a combination) configured for one endpoint cannot be configured for other endpoints simultaneously. If you do not choose a document type, **ANY** document type is automatically selected. **ANY** document type includes all the remaining document types that are not configured for other endpoints.

After you deploy an endpoint, you can test the connection. When you click **Test**, a dummy document is generated and sent to SAP Fieldglass. If a response is received in return, a pop-up message indicating success appears. If no response is received, a pop-up message indicating failure appears.

You cannot edit or delete an endpoint that is deployed. To edit or delete a deployed endpoint, you must first undeploy the endpoint.

Prerequisites

This functionality is for SAP Fieldglass buyers using SAP Integration Suite, managed gateway to integrate with SAP Business Network or SAP Ariba Procurement solutions.

Restrictions

You cannot configure the same document types for multiple endpoints at the same time.

Related Information

Adding an Endpoint [page 738]
Editing a Deployed Endpoint [page 739]
Deleting a Deployed Endpoint [page 739]

Adding an Endpoint

Context

You can configure the test environments for SAP Fieldglass tenants in the **Endpoints** tab of the SAP Integration Suite, managed gateway application.

Procedure

1. Sign in to SAP Integration Suite, managed gateway. For more information, see Navigating to SAP Integration Suite, Managed Gateway.

   The **Home** page of the SAP Integration Suite, managed gateway application is displayed.
2. Click **My Configurations** > **Endpoints.**

   The **Endpoints** page is displayed.
3. Click **Add Endpoint**.

   A new row is created with **FIELDGLASS** as the **Endpoint Type**.
4. In the **Endpoint** column, select a test environment from the dropdown.
5. In the **Document Type** column, click the icon.

   The **Select: Document Type** window is displayed.
1. Select the required document types.

   > ### Note
   >
   > If you don't select a document type, **ANY** document type is automatically selected.

   The selections are displayed in the **Selected Items** section.
2. Click **OK**.
   Your selections are displayed in the **Document Type** column.
6. Click the **Save and Deploy (TEST)** toggle.

   The **Save and Deploy (TEST)** toggle is temporarily disabled. An information icon, which you can click to know the status of the deployment, appears on the right side of the row.
7. Click **Refresh**.

Results

The endpoint is deployed, and the **Test** button is enabled. You can click the **Test** button to test your endpoint connection. A success or a failure message is displayed.

Editing a Deployed Endpoint

Context

You can edit a deployed endpoint in the **Endpoints** tab of the SAP Integration Suite, managed gateway application after you undeploy the endpoint.

Procedure

1. Undeploy the endpoint that you want to edit by clicking the **Save and Deploy (TEST)** toggle.

   The **Save and Deploy (TEST)** toggle is temporarily disabled. An information icon, which you can click to know the status of the deployment, appears on the right side of the row.
2. Click **Refresh**.

   The endpoint is undeployed and the **Test** button is disabled.

Results

You can now edit the endpoint. Ensure that you redeploy the endpoint after you finish editing. For more information, see Adding an Endpoint [page 738].

Deleting a Deployed Endpoint

Context

You can delete a deployed endpoint in the **Endpoints** tab of the SAP Integration Suite, managed gateway application after you undeploy the endpoint. The delete action is enabled once the endpoint is successfully undeployed.

Procedure

1. Undeploy the endpoint that you want to delete by clicking the **Save and Deploy (TEST)** toggle.

   The **Save and Deploy (TEST)** toggle is temporarily disabled. An information icon, which you can click to know the status of the deployment, appears on the right side of the row.
2. Click **Refresh**.

The endpoint is undeployed and the **Test** button is disabled. The delete action is enabled.

3. Click the 🗑 icon.

   The endpoint is deleted.

Configuring Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite

This feature provides an integration package enabling buyers on SAP S/4HANA Cloud Public Edition or SAP S/4HANA to seamlessly integrate with SAP Business Network using SAP Integration Suite in the 42K integration scenario to send and receive transaction data. The feature provides standard mapping content for 42K integration scenario allowing buyers to transform their transactional data with minimum configuration. For more information, refer to Automation of Source-to-Pay with SAP Business Network (42K) using SAP Integration Suite.

Table 50: High-Level Steps About Setting up the 42K Integration Scenario Using SAP Integration Suite

Step	Where to Perform This Step	Who can Perform This Step	Where to find the Information to Perform This Step
Configure your SAP S/4HANA Cloud Public Edition or SAP S/4HANA system.	SAP S/4HANA Cloud Public Edition or SAP S/4HANA	Buyer	SAP Best Practices for SAP S/4HANA Cloud, Private Edition Version SAP Best Practices for SAP S/4HANA Cloud Public Edition Version **Note** • While configuring SAP_COM_0508), ensure that the **Use WSRM** check box is not selected. • Skip the information related to enabling and configuring SAP Integration Suite, managed gateway.

Step	Where to Perform This Step	Who can Perform This Step	Where to find the Information to Perform This Step
Configure your SAP Business Network application.	SAP Business Network	Buyer	SAP Best Practices for SAP S/4HANA Cloud, Private Edition Version SAP Best Practices for SAP S/4HANA Cloud Public Edition Version **Note** Skip the information related to enabling and configuring SAP Integration Suite, managed gateway.
Create new user credentials with the **Type** as **User Credentials** for: • Outbound communication (from backend system to SAP Business Network) **Note** Enter your ANID in the **User** field. • Inbound communication (from SAP Business Network to backend system) **Note** Enter your backend user ID in the **User** field.	SAP Integration Suite	Buyer	Deploying a User Credentials Artifact
Download the **Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite** package to your design workspace.	SAP Integration Suite	Buyer	Working with Prepackaged Integration Content

Step	Where to Perform This Step	Who can Perform This Step	Where to find the Information to Perform This Step
Configure and deploy the artifacts present in the **Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite** package.	SAP Integration Suite	Buyer	Artifacts in the Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite Package [page 743]

Artifacts in the Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite Package

The following table details the artifacts present in the **Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite** package. You must configure the **Receive Transaction Documents** and **Send Transaction Documents** artifacts. Based on your business scenario, you can configure the artifacts for the document types listed in the table.

Artifact	Description	Link to Procedure
Receive Transaction Documents	Configuring this integration flow template is mandatory as it used to receive documents from SAP S/4HANA Cloud Public Edition or SAP S/4HANA, and SAP Business Network. Based on the document type received in SAP Integration Suite, the respective integration flow is called for further processing.	Configuring the Receive Transaction Documents Artifact [page 745]
Send Transaction Documents	Configuring this integration flow template is mandatory as it used to send documents to SAP S/4HANA Cloud Public Edition or SAP S/4HANA, and SAP Business Network.	Configuring the Send Transaction Documents Artifact [page 747]
Send Request for Quotation from SAP S/4HANA Cloud Public Edition or SAP S/4HANA to SAP Business Network	Configure this integration flow template to transform the outbound request for quotation document in the SOAP format from SAP S/4HANA Cloud Public Edition or SAP S/4HANA to the cXML format supported by SAP Business Network.	Configuring Artifacts for Outbound Documents [page 749]
Receive QuoteMessage-Award in SAP S/4HANA Cloud Public Edition or SAP S/4HANA from SAP Business Network	Configure this integration flow template to transform the inbound QuoteMessage document in the cXML format from SAP Business Network to the SOAP format supported by SAP S/4HANA Cloud Public Edition or SAP S/4HANA.	Configuring Artifacts for Inbound Documents [page 748]

Artifact	Description	Link to Procedure
Send Purchase Order from SAP S/4HANA Cloud Public Edition or SAP S/4HANA to SAP Business Network	Configure this integration flow template to transform the outbound request for purchase order document in the SOAP format from SAP S/4HANA Cloud Public Edition or SAP S/4HANA to the cXML format supported by SAP Business Network.	Configuring Artifacts for Outbound Documents [page 749]
Receive Order Confirmation in SAP S/4HANA Cloud Public Edition or SAP S/4HANA from SAP Business Network	Configure this integration flow template to transform the inbound order confirmation document in the cXML format from SAP Business Network to the SOAP format supported by SAP S/4HANA Cloud Public Edition or SAP S/4HANA.	Configuring Artifacts for Inbound Documents [page 748]
Receive Advance Ship Notice in SAP S/4HANA Cloud Public Edition or SAP S/4HANA from SAP Business Network	Configure this integration flow template to transform the advance ship notice document in the cXML format from SAP Business Network to the SOAP format supported by SAP S/4HANA Cloud Public Edition or SAP S/4HANA.	Configuring Artifacts for Inbound Documents [page 748]
Receive Invoice in SAP SAP S/4HANA Cloud Public Edition or SAP S/4HANA from SAP Business Network	Configure this integration flow template to transform the inbound invoice document in the cXML format from SAP Business Network to the SOAP format supported by SAP S/4HANA Cloud Public Edition or SAP S/4HANA.	Configuring Artifacts for Inbound Documents [page 748]
Send Invoice Status Update from SAP S/4HANA Cloud Public Edition or SAP S/4HANA to SAP Business Network	Configure this integration flow template to transform the outbound invoice status update document in the SOAP format from SAP S/4HANA Cloud Public Edition or SAP S/4HANA to the cXML format supported by SAP Business Network.	Configuring Artifacts for Outbound Documents [page 749]
Send MM-INVOICE ERP-initiated Invoice from SAP S/4HANA Cloud Public Edition or SAP S/4HANA to SAP Business Network	Configure this integration flow template to transform the outbound (MM-based) ERP-initiated invoice document in the SOAP format from SAP S/4HANA Cloud Public Edition or SAP S/4HANA to the cXML format supported by SAP Business Network.	Configuring Artifacts for Outbound Documents [page 749]
Receive Service Entry Sheet in SAP S/4HANA Cloud Public Edition or SAP S/4HANA from SAP Business Network	Configure this integration flow template to transform the inbound service entry sheet document in the cXML format from SAP Business Network to the SOAP format supported by SAP S/4HANA Cloud Public Edition or SAP S/4HANA.	Configuring Artifacts for Inbound Documents [page 748]

Artifact	Description	Link to Procedure
Send ServiceEntrySheetResponse from SAP S/4HANA Cloud Public Edition or SAP S/4HANA to SAP Business Network	Configure this integration flow template to transform the outbound service entry sheet (response) document in the SOAP format from SAP S/4HANA Cloud Public Edition or SAP S/4HANA to the cXML format supported by SAP Business Network.	Configuring Artifacts for Outbound Documents [page 749]
Send Goods Receipt from SAP S/4HANA Cloud Public Edition or SAP S/4HANA to SAP Business Network	Configure this integration flow template to transform the outbound goods receipt document in the SOAP format from SAP S/4HANA Cloud Public Edition or SAP S/4HANA to the cXML format supported by SAP Business Network.	Configuring Artifacts for Outbound Documents [page 749]
Send Payment Proposal from SAP S/4HANA Cloud Public Edition or SAP S/4HANA to SAP Business Network	Configure this integration flow template to transform the outbound payment proposal document in the SOAP format from SAP S/4HANA Cloud Public Edition or SAP S/4HANA to the cXML format supported by SAP Business Network.	Configuring Artifacts for Outbound Documents [page 749]
Send Payment Remittance from SAP S/4HANA Cloud Public Edition or SAP S/4HANA to SAP Business Network	Configure this integration flow template to transform the outbound payment remittance document in the SOAP format from SAP S/4HANA Cloud Public Edition or SAP S/4HANA to the cXML format supported by SAP Business Network.	Configuring Artifacts for Outbound Documents [page 749]
Send Payment Remittance Cancel from SAP S/4HANA Cloud Public Edition or SAP S/4HANA to SAP Business Network	Configure this integration flow template to transform the outbound payment remittance (cancel) document in the SOAP format from SAP S/4HANA Cloud Public Edition or SAP S/4HANA to the cXML format supported by SAP Business Network.	Configuring Artifacts for Outbound Documents [page 749]

Configuring the Receive Transaction Documents Artifact

Prerequisites

- You have signed in to SAP Integration Suite.
- You have downloaded the **Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite** package to your **Design** workspace.
- You have created a package in your workspace to copy the integration flow templates.

- You have created user credentials for inbound and outbound communication.

Context

Use this procedure to configure SAP Integration Suite to receive documents from SAP S/4HANA Cloud Public Edition or SAP S/4HANA, and SAP Business Network.

> **Note**
>
> The fields listed in the procedure are case-sensitive. Ensure that you enter the correct values.

Procedure

1. In the **Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite** package, copy the **Receive Documents in SAP Integration Suite** artifact to the package that you've created in your **Design** workspace.

   > **Note**
   >
   > When you're copying the artifact, ensure that you provide a unique name for the artifact.

2. Navigate to your package that contains the copied artifact.
3. In the **Artifacts** tab, select the checkbox of the artifact that you've copied. Click the Actions icon and select **Configure**.

   The **Configure "<***artifact name***>"** dialog is displayed.
4. In the **Sender** tab:
   - **Sender**: Select **SAPBusinessNetwork**.
   - **Adapter Type**: Select **HTTPS**.
   - **Address**: Enter the path (without host or port) of your SAP Integration Suite instance URL that the SAP Business Network application must connect to.
     Repeat the process with the **Sender** as **S4_42K**. When you select **S4_42K**:
   - **Adapter Type**: Select **SOAP**.
   - **Address**: Enter the path (without host or port) of your SAP Integration Suite instance URL that the SAP S/4HANA Cloud Public Edition or SAP S/4HANA must connect to.

   No changes are needed in the **Receiver** tab.
5. In the **More** tab:
   - **Type**: Select **All Parameters**.
   - **Environment**: For production environment, enter **PROD**. Any other value entered is treated as test environment.
   - **S4 System ID**: Enter the system ID of your SAP S/4HANA Cloud Public Edition or SAP S/4HANA system.
   - **SAP Business Network Credential**: Enter the user credential that you've created for outbound communication.

- **SAP Business Network ID**: Enter the ID associated with SAP Business Network (ANID).
- **System Timezone**: Enter the timezone of your SAP S/4HANA Cloud Public Edition or SAP S/4HANA system. For example, `-6:00`.

6. Click **Save** and then **Deploy**.

Configuring the Send Transaction Documents Artifact

Prerequisites

- You have signed in to SAP Integration Suite.
- You have downloaded the **Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite** package to your **Design** workspace.
- You have created a package in your workspace to copy the integration flow templates.
- You have created user credentials for inbound and outbound communication.

Context

Use this procedure to configure SAP Integration Suite to send documents to SAP S/4HANA Cloud Public Edition or SAP S/4HANA, and SAP Business Network.

> **Note**
>
> The fields listed in the procedure are case-sensitive. Ensure that you enter the correct values.

Procedure

1. In the **Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite** package, copy the **Send Documents from SAP Integration Suite** artifact to the package that you've created in your **Design** workspace.

   > **Note**
   >
   > When you're copying the artifact, ensure that you provide a unique name for the artifact.

2. Navigate to your package that contains the copied artifact.
3. In the **Artifacts** tab, select the checkbox of the artifact that you've copied. Click the Actions icon and select **Configure**.

   The **Configure "<***artifact name***>"** dialog is displayed. No changes are needed in the **Sender** tab.

4. In the **Receiver** tab:
    - **Receiver**: Select **S4**.
    - **Adapter Type**: Select **SOAP**.
    - **LocationID**: Enter the location ID of your cloud connector.
5. In the **More** tab:
    - **Type**: Select **All Parameters**.
    - **Deployment (cloud or onprem)**:
        - SAP S/4HANA Cloud Public Edition: Enter **cloud**.
        - SAP S/4HANA: Enter **onprem**.
    - **S4 Basic Authentication Credential**: Enter the user credential that you've created for inbound communication.
    - **S4 Host URL**:
        - SAP S/4HANA Cloud Public Edition: Enter the host of your SAP S/4HANA Cloud Public Edition system URL.
        - SAP S/4HANA: Enter the host and port of your SAP S/4HANA on-premise system URL.
    - **SAP Business Network Service URL**:
        - For US data center: Enter **`https://certservice-2.ariba.com/service/transaction/cxml.asp`**.
        - For Europe data center: Enter **`https://eu.certservice.ariba.com/service/transaction/cxml.asp`**.
6. Click **Save** and then **Deploy**.

Configuring Artifacts for Inbound Documents

Prerequisites

- You have signed in to SAP Integration Suite.
- You have downloaded the **Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite** package to your **Design** workspace.
- You have created a package in your workspace to copy the integration flows.
- You have created user credentials for inbound and outbound communication.

Context

Use this procedure to configure the documents sent from SAP Business Network to SAP S/4HANA Cloud Public Edition or SAP S/4HANA. Repeat the procedure for each of the document types required in your business scenario. For example, if your business scenario involves order confirmation and invoice documents, repeast this procedure for the **Order Confirmation** and **Invoice** artifacts.

Procedure

1. In the **Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite** package, copy the required artifact to the package that you've created in your **Design** workspace. For more information on the artifacts, see Artifacts in the Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite Package [page 743].

   > ⓘ Note
   >
   > When you're copying the artifact, ensure that you provide a unique name for the artifact.

2. Navigate to your package that contains the copied artifact.
3. In the **Artifacts** tab, select the checkbox of the artifact that you've copied. Click the Actions icon and select **Configure**.

   The **Configure "<***artifact name***>"** dialog is displayed.
4. In the **More** tab:
   - **Type**: Select **All Parameters**.
   - (Optional) **Cross Reference: DefaultLang**: Maintain the default language to be used when SAP Business Network or SAP S/4HANA Cloud Public Edition or SAP S/4HANA fail to send language details both for inbound and outbound messages. For example, **`en`**.
   - **Process Direct Endpoint for Payload Post-Processing**: After the payload is transformed, if you want to add another integration flow, enter the endpoint URL of the integration flow that the transformed payload should reach. Else, enter **`false`**.
   - **Process Direct Endpoint for Payload Pre-Processing**: Before the payload is transformed, if you want to add another integration flow, enter the endpoint URL of the integration flow that the payload should reach. Else, enter **`false`**.
   - **Target API Path**: The path (without host or port) for the document type that you're configuring. This is the path that you've configured in the communication setup in SAP S/4HANA Cloud Public Edition or SAP S/4HANA.
   - (Applies to service entry sheet) **SES Revoke Target API Path**: The path (without host or port) for revoking the service entry sheet document type. This is the path that you've configured in the communication setup in SAP S/4HANA Cloud Public Edition or SAP S/4HANA.

Configuring Artifacts for Outbound Documents

Prerequisites

- You have signed in to SAP Integration Suite.
- You have downloaded the **Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite** package to your **Design** workspace.

- You have created a package in your workspace to copy the integration flows.
- You have created user credentials for inbound and outbound communication.

Context

Use this procedure to configure the documents sent from SAP S/4HANA Cloud Public Edition or SAP S/4HANA to SAP Business Network. Repeat the procedure for each of the document types required in your business scenario. For example, if your business scenario involves request for quotation and purchase order documents, repeast this procedure for the **Request for Quotation** and **Purchase Order** artifacts.

Procedure

1. In the **Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite** package, copy the required artifact to the package that you've created in your **Design** workspace. For more information on the artifacts, see Artifacts in the Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite Package [page 743].

   > **Note**
   >
   > When you're copying the artifact, ensure that you provide a unique name for the artifact.

2. Navigate to your package that contains the copied artifact.
3. In the **Artifacts** tab, select the checkbox of the artifact that you've copied. Click the Actions icon and select **Configure**.

   The **Configure "<***artifact name***>"** dialog is displayed.
4. In the **More** tab:
   - **Type**: Select **All Parameters**.
   - (Optional) **Cross Reference: DefaultLang**: Maintain the default language to be used when SAP Business Network or SAP S/4HANA Cloud Public Edition or SAP S/4HANA fail to send language details both for inbound and outbound messages. For example, **`en`**.
   - **Process Direct Endpoint for Payload Post-Processing**: After the payload is transformed, if you want to add another integration flow, enter the endpoint URL of the integration flow that the transformed payload should reach. Else, enter **`false`**.
   - **Process Direct Endpoint for Payload Pre-Processing**: Before the payload is transformed, if you want to add another integration flow, enter the endpoint URL of the integration flow that the payload should reach. Else, enter **`false`**.

Configuring Guided Buying Capability with SAP Ariba Buying (2NV) or Guided Buying for Central Procurement with SAP Ariba Buying (3EN) Using SAP Integration Suite

This feature applies to buyers on SAP S/4HANA Cloud Public Edition or SAP S/4HANA who have a license to SAP Integration Suite and are using the Guided Buying Capability with SAP Ariba Buying (2NV) or Guided Buying for Central Procurement withSAP Ariba Buying (3EN) integration scenarios. Starting SAP Ariba Release 2411, the **SAP Ariba Buying Integration with SAP S/4HANA** package is enhanced to support additional document types along with an option to customize the integration flow templates. For more information, refer to Guided Buying Capability with SAP Ariba Buying (2NV) or Guided Buying for Central Procurement with SAP Ariba Buying (3EN) Using SAP Integration Suite.

For Customers Already using SAP Ariba Buying Integration with SAP S/4HANA Package

With this enhancement, the **SAP Ariba Buying Integration with SAP S/4HANA** package contains three additional artifacts for purchase requistion reservation and purchase receipt. The following artifacts support only the Purchase Requsition V2 ODATA API:

- **Purchase Requisition - Send Reservation Notification**: Forwards a SOAP WebService call from SAP S/4HANA Cloud Public Edition or SAP S/4HANA toSAP Ariba Buying with confirmations about a purchase requisition reservation. To configure the artifact, see Configuring the Purchase Requisition - Send Reservation Notification Artifact [page 755].
- **Purchase Receipt - Replication**: Forwards a POST or DELETE call from SAP Ariba Buying to SAP S/4HANA Cloud Public Edition or SAP S/4HANA for replication of purchase receipts. To configure the artifact, see Configuring Purchase Receipt Artifacts [page 757].
- **Purchase Receipt - Fetch CSRF Token**: Forwards a GET call from SAP Ariba Buying to SAP S/4HANA Cloud Public Edition or SAP S/4HANA for the retrieval of a CSRF token to be used for a subsequent POST call. To configure the artifact, see Configuring Purchase Receipt Artifacts [page 757].

If you want to use the Purchase Requsition V4 ODATA API, you must undeploy the artifacts that you've already configured for this package. You can then configure and deploy the artifacts mentioned in the **For New Customers** section. You don't need to make any changes on SAP S/4HANA Cloud Public Edition or SAP S/4HANA, and SAP Ariba Buying.

> **Note**
>
> You can't deploy the artifacts for Purchase Requsition V2 ODATA API and artifacts for Purchase Requsition V2/V4 ODATA APIs at the same time. If you choose to upgrade, when you undeploy the artifacts, there will be a communication disruption until you deploy the new artifacts. Ensure that you plan the upgrade accordingly.

For New Customers

With this enhancement, the **SAP Ariba Buying Integration with SAP S/4HANA** package contains two additional artifacts that combines the pass-through content in the 2NV and 3EN scenarios for purchase requisition. The following artifacts support Purchase Requsition V2 and V4 ODATA APIs:

- **SAP Ariba Buying to SAP S/4HANA Cloud or SAP S/4HANA Combined Pass Through iFlow**: Forwards HTTP requests from SAP Ariba Buying to SAP S/4HANA Cloud Public Edition or SAP S/4HANA for Purchase Requisition, Attachments and Goods Receipt. To configure the artifact, see Configuring SAP Ariba Buying to SAP S/4HANA Cloud Public Edition or SAP S/4HANA Combined Pass Through iFlow [page 752].
- **or SAP S/4HANA to SAP Ariba Buying Combined Pass Through iFlow**: Forwards a SOAP WebService call from SAP S/4HANA Cloud Public Edition or SAP S/4HANA to SAP Ariba Buying for Notifications on Item History, Replication, Status Update, and Reservation. To configure the artifact, see Configuring SAP S/4HANA Cloud Public Edition or SAP S/4HANA to SAP Ariba Buying Combined Pass Through iFlow [page 754].

> **Note**
>
> As a new customer, you only need to configure and deploy the above two artifacts.

Configuring SAP Ariba Buying to SAP S/4HANA Cloud Public Edition or SAP S/4HANA Combined Pass Through iFlow

Prerequisites

- You have signed in to SAP Integration Suite.
- You have downloaded the **SAP Ariba Buying Integration with SAP S/4HANA** package to your **Design** workspace.
- You've created a package in your workspace to copy the integration flow templates.
- You've created user credentials for inbound and outbound communication.

Context

Use this procedure to configure the the **SAP Ariba Buying to SAP S/4HANA Cloud Public Edition or SAP S/4HANA Combined Pass Through iFlow** artifact that forwards HTTP requests from SAP Ariba Buying to SAP S/4HANA Cloud Public Edition or SAP S/4HANA for purchase requisition, attachments, and goods receipt.

Procedure

1. In the **SAP Ariba Buying Integration with SAP S/4HANA** package, copy the **SAP Ariba Buying to SAP S/4HANA Cloud Public Edition or SAP S/4HANA Combined Pass Through iFlow** artifact to the package that you've created in your **Design** workspace.

   > ⓘ Note
   >
   > When you're copying the artifact, ensure that you provide a unique name for the artifact.

2. Navigate to your package that contains the copied artifact.
3. In the **Artifacts** tab, select the checkbox of the artifact that you've copied. Click the Actions icon and select **Configure**.

   The **Configure "<*artifact name*>"** dialog is displayed.
4. In the **Sender** tab, maintain the following fields:
   - **Sender**: Select **Ariba**.
   - **Adapter Type**: Select one of the **HTTPS** options.
     The **Adapter Type** dropdown lists four **HTTPS** options, each for attachments, purchase requisition V2 ODATA API, purchase requisition V4 ODATA API, and goods receipt.
   - **Address**: The URL that you've configured in SAP Ariba Buying. Based on the **HTTPS** option that you've selected, the **Address** field varies. This field is not editable, but you must verify the **Address** against the URL that you've configured in SAP Ariba Buying for each **HTTPS** option.
   - **S4 System ID**: Enter the system ID of your SAP S/4HANA Cloud Public Edition or SAP S/4HANA system.

   Ensure that you verify the values in all the fields for each of the four **HTTPS** options.
5. In the **Receiver** tab, maintain the following fields:
   - **Receiver**: Select **SAP**.
   - **Adapter Type**: Select one of the **HTTP** options.
     The **Adapter Type** dropdown lists four **HTTP** options, each for attachments, purchase requisition V2 ODATA API, purchase requisition V4 ODATA API, and goods receipt.
   - **Address**: The URL that you've configured in SAP Ariba Buying. Based on the **HTTP** option that you've selected, the **Address** field varies. This field is not editable, but you must verify the **Address** against the URL that you've configured in SAP Ariba Buying for each **HTTP** option.
   - **S4 Host URL**: Enter the URL of your SAP S/4HANA Cloud Public Edition or SAP S/4HANA system.
   - **S4Client**: Enter the client ID of your SAP S/4HANA Cloud Public Edition or SAP S/4HANA system.
   - **Proxy Type**: Select **Internet**.
   - **Authentication**: Select **Basic**.
   - **Credential Name**: Enter the user name of SAP S/4HANA Cloud Public Edition or SAP S/4HANA system.

   Ensure that you verify the values in all the fields for each of the four **HTTP** options.
6. In the **More** tab, maintain the following fields:
   - **Type**: Select **All Parameters**.
   - (Optional) **DocumentType**: The default value is set to **NB**. However, you can map the purchase requisitions from SAP Ariba Buying to a custom document type by configuring a custom code to be used during message processing. If you've configured a custom document type, enter the custom code here.

- (Optional) **Prefix**: If the package is used in a central procurement deployment scenario for SAP S/4HANA, and overlapping master data exists in the connected systems, this data needs to be loaded in SAP Ariba Buying inclusive of prefixes. This would guarantee uniqueness of each record. The iFlow offers 20 prefixes. For example, consider a purchasing organization with a connected system value as **2000** and business system value as **S4HCLNT200** resulting in **S4HCLNT200_2000**. The prefix that you need to enter here is **S4HCLNT200**.
- (Optional) **ProcessDirect Endpoint for Customizing**: If you want to add another integration flow, enter the endpoint URL of the integration flow that the payload should reach. Else, enter `false`.

7. Click **Save** and then **Deploy**.

Configuring SAP S/4HANA Cloud Public Edition or SAP S/4HANA to SAP Ariba Buying Combined Pass Through iFlow

The **SAP S/4HANA Cloud Public Edition or SAP S/4HANA to SAP Ariba Buying Combined Pass Through iFlow** artifact forwards a SOAP WebService call from SAP S/4HANA Cloud Public Edition orSAP S/4HANA to SAP Ariba Buying for notifications on item history, replication, status update, and reservation.

Prerequisites

- You have signed in to SAP Integration Suite.
- You have downloaded the **SAP Ariba Buying Integration with SAP S/4HANA** package to your **Design** workspace.
- You've created a package in your workspace to copy the integration flow templates.
- You've created user credentials for inbound and outbound communication.

Context

Use this procedure to configure the **SAP S/4HANA Cloud Public Edition or SAP S/4HANA to SAP Ariba Buying Combined Pass Through iFlow** artifact that forwards a SOAP WebService call from SAP S/4HANA Cloud Public Edition or SAP S/4HANA to SAP Ariba Buying for notifications on item history, replication, status update, and reservation.

Procedure

1. In the **SAP Ariba Buying Integration with SAP S/4HANA** package, copy the **SAP Ariba Buying to SAP S/4HANA Cloud Public Edition or SAP S/4HANA Combined Pass Through iFlow** artifact to the package that you've created in your **Design** workspace.

> **Note**
>
> When you're copying the artifact, ensure that you provide a unique name for the artifact.

2. Navigate to your package that contains the copied artifact.
3. In the **Artifacts** tab, select the checkbox of the artifact that you've copied. Click the Actions icon and select **Configure**.

   The **Configure "<*artifact name*>"** dialog is displayed.
4. In the **Sender** tab, maintain the following fields:
   - **Sender**: Select **SAP**.
   - **Adapter Type**: Select **HTTPS**.
   - **Ariba Buying Realm ID**: Enter your SAP Ariba Buying solution tenant ID. You can find it from the login URL used to connect to the SAP Ariba Buying to the application. For example:
     - `http://realmID.procurement.ariba.com`
     - `https://s1.ariba.com/Buyer/main/?realm=realmID`
5. In the **Receiver** tab, maintain the following fields:
   - **Receiver**: Select **Ariba**.
   - **Adapter Type**: Select **HTTP**.
   - **Ariba Buying Host and Port**
   - **Ariba Buying Realm ID**: Enter your SAP Ariba solution tenant ID. You can find it from the login URL used to connect to the SAP Aroba to the application. For example:
     - `http://realmID.procurement.ariba.com`
     - `https://s1.ariba.com/Buyer/main/?realm=realmID`
   - **Credential Name**: Enter the user name of the SAP Ariba Buying application credentials that you've configured in SAP Integration Suite.
6. In the **More** tab:
   - **Type**: Select **All Parameters**.
   - (Optional) **ProcessDirect Endpoint for Customizing**: If you want to add another integration flow, enter the endpoint URL of the integration flow that the payload should reach. Else, enter `false`.
7. Click **Save** and then **Deploy**.

Configuring the Purchase Requisition - Send Reservation Notification Artifact

Prerequisites

- You have signed in to SAP Integration Suite.
- You have downloaded the **SAP Ariba Buying Integration with SAP S/4HANA** package to your **Design** workspace.

- You've created a package in your workspace to copy the integration flow templates.
- You've created user credentials for inbound and outbound communication.

Context

Use this procedure to configure the **Purchase Requisition - Send Reservation Notification** artifact that forwards a SOAP WebService call from SAP S/4HANA Cloud Public Edition or SAP S/4HANA to SAP Ariba Buying with confirmations about a purchase requisition reservation.

Procedure

1. In the **SAP Ariba Buying Integration with SAP S/4HANA** package, copy the **Purchase Requisition - Send Reservation Notification** artifact to the package that you've created in your **Design** workspace.

   > ⓘ Note
   >
   > When you're copying the artifact, ensure that you provide a unique name for the artifact.

2. Navigate to your package that contains the copied artifact.
3. In the **Artifacts** tab, select the checkbox of the artifact that you've copied. Click the Actions icon and select **Configure**.

   The **Configure "<*artifact name*>"** dialog is displayed.
4. In the **Sender** tab, maintain the following fields:
   - **Sender**: Select **SAP**.
   - **Adapter Type**: Select **HTTPS**.
   - **Realm ID**: Enter your SAP Ariba solution tenant ID. You can find it from the login URL used to connect to the SAP Ariba to the application. For example:
     - `http://realmID.procurement.ariba.com`
     - `https://s1.ariba.com/Buyer/main/?realm=realmID`
5. In the **Receiver** tab, maintain the following fields:
   - **Receiver**: Select **SAP**.
   - **Adapter Type**: Select **HTTP**.
   - **Ariba Service Host Name and Port**
   - **Realm ID**: Enter your SAP Ariba solution tenant ID. You can find it from the login URL used to connect to the SAP Ariba to the application. For example:
     - `http://realmID.procurement.ariba.com`
     - `https://s1.ariba.com/Buyer/main/?realm=realmID`
   - **Credential Name**: Enter the user name of the SAP Ariba Buying application credentials that you've configured in SAP Integration Suite
6. In the **More** tab, maintain the following fields:
   - **Type**: Select **All Parameters**.

- **MessageDelay**: Enter the value in milliseconds of the delay to be applied to messages before forwarding them to the target system
- (Optional) **ProcessDirect Endpoint for Customizing**: If you want to add another integration flow, enter the endpoint URL of the integration flow that the payload should reach. Else, enter `false`.

7. Click **Save** and then **Deploy**.

Configuring Purchase Receipt Artifacts

The **Purchase Receipt - Replication** artifact forwards a POST or DELETE call from SAP Ariba Buying to SAP S/4HANA Cloud Public Edition or SAP S/4HANA for replication of purchase receipts. The **Purchase Receipt - Fetch CSRF Token** artifact forwards a GET call from SAP Ariba Buying to SAP S/4HANA Cloud Public Edition or SAP S/4HANA for the retrieval of a CSRF token to be used for a subsequent POST call.

Prerequisites

- You have signed in to SAP Integration Suite.
- You have downloaded the **SAP Ariba Buying Integration with SAP S/4HANA** package to your **Design** workspace.
- You've created a package in your workspace to copy the integration flow templates.
- You've created user credentials for inbound and outbound communication.

Context

Use this procedure to configure the **Purchase Receipt - Fetch CSRF Token** and **Purchase Receipt - Replication** artifacts.

Procedure

1. In the **SAP Ariba Buying Integration with SAP S/4HANA** package, copy the required artifact to the package that you've created in your **Design** workspace.

   > ⓘ Note
   >
   > When you're copying the artifact, ensure that you provide a unique name for the artifact.

2. Navigate to your package that contains the copied artifact.
3. In the **Artifacts** tab, select the checkbox of the artifact that you've copied. Click the **Actions** icon and select **Configure**.

   The **Configure "<*artifact name*>"** dialog is displayed.

4. In the **Sender** tab, maintain the following fields:
    - **Sender**: Select **Ariba**.
    - **Adapter Type**: Select **HTTPS**.
    - **S4 Business System ID**: Enter the system ID of your SAP S/4HANA Cloud Public Edition or SAP S/4HANA system.
5. In the **Receiver** tab, maintain the following fields:
    - **Receiver**: Select **SAP**.
    - **Adapter Type**: Select **HTTP**.
    - **S4 Protocol**: Enter `https`.
    - **S4 Host Name and Port**
    - **S4Client**: Enter the client ID of your SAP S/4HANA Cloud Public Edition or SAP S/4HANA system.
    - **Proxy Type**: Select **Internet**.
    - **Authentication**: Select **Basic**.
    - **Credential Name**: Enter the user name of SAP S/4HANA Cloud Public Edition or SAP S/4HANA system.
6. In the **More** tab, maintain the following fields:
    - **Type**: Select **All Parameters**.
    - **IFlowFullURL**: Enter the endpoint URL (with host name and port) of the artifact that you're configuring.
    - (Optional) **ProcessDirect Endpoint for Customizing**: If you want to add another integration flow, enter the endpoint URL of the integration flow that the payload should reach. Else, enter `false`.
7. Click **Save** and then **Deploy**.

Configuring Lean Services

- Configuring Lean Services Procurement Integration between SAP S/4HANA and SAP Business Network Commerce Automation using AddOn [page 760]
- Configuring Lean Services Integration between SAP S/4HANA and SAP Ariba Sourcing using SAP Integration Suite, Managed Gateway Add-On [page 793]

Configuring the Interface Setup

Prerequisites

Ensure that you implement the following notes:

- SAP Note 3709434
- If you are using SP02 version, 3775655
- If you are using SP00-SP01 version, 3776604

Context

Use this procedure to configure the interface setup to connect with the SAP Integration Suite, managed gateway to exchange the transaction documents.

Procedure

1. Run the transaction code `SPRO`.
2. Navigate to **Integration with Other SAP Components** > **Integration with Procurement Applications** > **General Settings** > **Set Up the Interface** > **Configure the Connections to Send Messages_V1**. Or, You can also use the program `S4CINT_INTERFACE_SETUP` to directly open this screen.

   The **Interface Setup Program for SAP Ariba Solutions** page appears.
3. Under the **Data Center** section, choose the appropriate data center.
4. Under **Managed Gateway for Spend&Network Connection**, choose **Connect to Production Environment** to connect to a production environment, or choose **Connect to Test Environment** to connect to a test environment.

5. Under **Logon Data**, choose one of the following authentication methods:
    - **User ID/Password**:
        - In the **User Name** text box, enter the P user ID that you activated while registering with SAP Integration Suite, managed gateway.
        - In the **Password** text box, enter the password for the P user ID. The password you specify here must match the password you entered while registering with SAP Integration Suite, managed gateway.
    - **X.509 SSL Client Certificate**: Choose a certificate in the **Certificate Name** field.
6. Under **HTTP Proxy Options**, enter the following details:
    - Enter the HTTP proxy name in the **Name of Proxy Host** field. For example, proxy.abc.com.
    - Enter the port name in the **Port Number of Proxy Host** field. For example, 8080.
    - Enter the user name for the proxy server in the **User Name of Proxy Server** field. For example, Acme12.
    - Enter the password for the registered user name in the **Proxy User Password** field. For example, 1Aze45lmnwe.
7. If you're configuring lean services for SAP Business Network Commerce Automation, under the **Interface Setup Using Web Service for Business Network** section, check the following check boxes:
    - **Purchase Order Request**
    - **Service Entry Sheet Response**
    - **Document Status Update**
    - **ERP-Initiated Invoice**
    - **Service Sheet**
    - **Invoice**
    - **Order Confirmation Request**
8. If you're configuring lean services for SAP Ariba Sourcing, **Interface Setup Using Web Service for Sourcing, Contracts, and Supplier Data** section, select the following check boxes:
    - **Purchase Requisition Details**
9. Execute.

Configuring Lean Services Procurement Integration between SAP S/4HANA and SAP Business Network Commerce Automation using AddOn

Lean services procurement integration between SAP S/4HANA and SAP Business Network Commerce Automation is supported using the SAP Integration Suite, managed gateway, add-on for SAP S/4HANA component, S4CI1. It enables users to exchange all the lean service documents such as service orders, service sheets, and invoices.

Apart from supporting planned lean services and lean services with item hierarchy, the following additional functionalities are also supported:

- Unplanned (enhanced limit service type) lean services
- Comments at both header and line item levels in lean service entry sheets
- Split by amount for enhanced limit services for S4CORE versions 109 and later.

- Creation, cancellation, and correction of Service Entry Sheets (SES), including support for item hierarchies
- Application Interface Framework (AIF) monitoring
- Lean ERP-initiated invoices
- Custom mapping
- Editing and cancellation of Advanced Ship Notices (ASN) for material-based lean procurement

The following functionalities are supported for both planned and unplanned lean services:

- Updating an SES, auto-SES, final SES, unplanned services with item hierarchy, and enhanced limit with contract reference ID.
- Suppliers can cancel the SES under the following conditions:
  - The SES is neither approved nor rejected.
  - The SES is approved but not invoiced.

You can configure this functionality using OPD (Output Parameter Determination) or NACE.

Prerequisites

Please see Prerequisites [page 761].

Restrictions

Please see Restrictions [page 771].

Implementation

Please see Implementation [page 771].

Prerequisites

- You must use the SAP S/4HANA 2022 FPS00 or higher versions.

  > ⓘ Note
  >
  > If you are using SAP S/4HANA 2022 FPS00–SPS04 or SAP S/4HANA 2023 FPS00–FPS02, please see SAP Note 3759850.

- You must have the latest add-on service pack installed. You need the **S4CI1 (SP04)** and **ARBCI1 (SP28)** components installed. For information on how to install the add-on, please see Installing and Upgrading the Add-On for SAP ERP and SAP S/4HANA. If you are a new customer, ensure that you configure the SAP

Integration Suite, managed gateway portal. For more information, please see **SAP Integration Suite, Managed Gateway Installation Guide**.

- While installing the latest add-on component, include the `S4CINT_ATH` authorization object for SAP S/4HANA add-on integration.
- Implement the following notes:
  - To understand which SAP notes need to be implemented to support a successful S4CI1 add-on installation for lean procurement adoption, please see the SAP Note, 3759850.
  - To fix issues while creating SES, implement the OSS Note 3736124.
  - To trigger the PO output type when you make changes to a Purchase Order in SAP S/4HANA, implement the OSS Note 3430273.
  - To use logical system ID, implement the OSS Note 3481996.
  - To fix the SOA URL endpoint issue, implement the SAP Note 3775655.
- Perform the following configurations in SAP S/4HANA system:
  - Downloading the WSDL Definition Files for Service Users [page 762]
  - Implementing Customer Exit to Support Lean Services in Order Confirmation
  - Managing Activation of Application Object Type [page 764]
  - For incoming invoices:
    - Configuring Program Parameters [page 764]
    - Configuring Settings for Parking of Supplier Invoices [page 765]
    - Assigning Program Parameters [page 767]
    - Assigning Company Codes [page 766]
    - Assign Tax Codes [page 768]
    - Mapping SAP Tax Codes to Tax Categories [page 767]
  - For SES:
    - Defining Mapping of External System and Logical Port for Outbound Services for SES [page 769]
    - Activating Flexible Workflow for SES [page 771]

Downloading the WSDL Definition Files for Service Users

Context

Procedure

1. Log on to the SAP GUI in the SAP S/4HANA system.
2. Run the transaction `SE80`.
3. Choose the **Package** object type. In the **Package Name** field, enter **`IG_S4CI_SRV_SOA`**.

4. Expand **Enterprise Services, Service Consumers**, and choose the **CLASCO_S4CINT_PURCHASE_ORDER_OUT** service consumer.
5. In the right section, choose the **WSDL** tab.
6. Choose **Save to file**, and enter a name for the WSDL definition.

Implementing Customer Exit to Support Lean Services in Order Confirmation

Context

Use this procedure to implement customer exit for lean services in order confirmation.

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **Integration with Procurement Applications** > **Application Specific Settings** > **Order Confirmation**.
4. Click on the **IMG-Activity** for **Implement Customer Exit to Support Lean Services in Order Confirmation** .

   The **Project Management of SAP Enhancements** screen appears.
5. Enter a name in the **Project** field. For example, Z0R. If you already have an existing SAP project for enhancement, use the same project.
6. Click **Create** and enter a description in the **Short Text** field.
7. Click **Save**.
8. Click **Enhancement assignments**. The **Create Object Directory Entry** screen appears.
9. Choose the package.
10. Save the changes. The **SAP Enhancements in Enhancement Project** <object name> page appears.
11. Enter MM06E001 in the **Enhancement** field and then press **Enter**.
12. Click **Components**.
13. Double-click **EXIT_SAPLEINM_009**. The program **INCLUDE - ZXM06U21** appears.
14. Double-click **INCLUDE - ZXM06U21** in the **Function Builder: Display EXIT_SAPLEINM_009** page to create the program.
15. Enter the following include: **INCLUDE ARBCIG_INCL_LEAN_OC_04 IF FOUND**.

16. Save the entries.
17. Click the **Activate** button to go back to the **CMOD** screen.
18. Activate the customer exit in the **CMOD** screen.

Managing Activation of Application Object Type

Context

Procedure

1. Log on to the SAP GUI in the SAP S/4HANA system.
2. Run the transaction SPRO and choose **SAP Reference IMG**.
3. Choose **Cross-Application Components** > **Output Control** > **Manage Application Object Type Activation**.
4. For the **Purchase_Order** application object type, in the **Status** field, set the value accordingly:
   - To use OPD: Set it to `Application Active`
   - To use NACE: Set it to `Application Inactive`
5. Save the changes.

Configuring Program Parameters

Use

This procedure describes how to specify the required program parameter configuration IDs. Each ID contains the relevant program parameters for posting a supplier invoice transferred by a SOAP service.

Procedure

1. Log on to the SAP GUI in the SAP S/4HANA system.

2. Run the transaction SPRO and choose **SAP Reference IMG**.
3. Choose **Materials Management** > **Logistics Invoice Verification** > **Electronic Data Interchange (EDI)** > **SOAP Services** > **Configure Program Parameters**.
4. Choose **New Entries**. Enter the data according to your business requirements:

   Example

Program Parameters	Value
Program Parameter Configuration ID	`Default`
Invoice Doc. Type	`RE`
Credit Memo Doc Type	`RE`
Processing	`Unclarified Error: Park Invoice`
Check Material Number	Deselect the checkbox.
Check Unit of Measure	Select the checkbox.
Check Negative Variances	Deselect the checkbox.
Enable Attachment Transfer	Select the checkbox.

5. Choose **Save** > **Exit**.

Configuring Settings for Parking of Supplier Invoices

Use

This procedure describes how to define whether you always want to park supplier invoices that you receive from a supplier registered in Ariba Network.

Procedure

1. Log on to the SAP GUI in the SAP S/4HANA system.
2. Run the transaction SPRO, and choose **SAP Reference IMG**.
3. Choose **Integration with others SAP Components** > **SAP Ariba Integration (SOAP)** > **Integration with SAP Ariba Network** > **Document-Specific Settings** > **Supplier Invoice** > **Settings for Parking of Suppliers Invoices**.

4. Choose **New Entries**. Enter the data according to your business requirements:

> Example

Program Parameter Configuration ID	Always Park Invoice
`DEFAULT`	`True`

5. Choose **Save** > **Exit**.

Assigning Company Codes

Use

This procedure describes how to assign the company code to transfer supplier invoice data with a SOAP service.

Procedure

1. Log on to the SAP GUI in the SAP S/4HANA system.
2. Run the transaction SPRO and choose **SAP Reference IMG**.
3. Choose **Materials Management** > **Logistic Invoice Verification** > **Electronic Data Interchange (EDI)** > **SOAP Services** > **Assign Company Code**.
4. Choose **New Entries** and enter the following data according to your business requirements:

> Note
>
> If you have many suppliers and you don't want to enter each of them, leave the **Invoicing Party** field empty. The rules are then applied to all of your suppliers (using wildcards).

> Example

Invoicing Party	Company Code Name	Company Code
`10300085`	`Company Code Name 1010`	`1010`

5. Choose **Save** > **Exit**.

Assigning Program Parameters

Use

This procedure describes how to assign the program parameters configuration ID to the corresponding invoicing party for posting a supplier invoice transferred by a SOAP service.

Procedure

1. Log on to the SAP GUI in the SAP S/4HANA system.
2. Run the transaction SPRO and choose **SAP Reference IMG**.
3. Choose **Materials Management** > **Logistics Invoice Verification** > **Electronic Data Interchange (EDI)** > **SOAP Services** > **Assign Program Parameters**.
4. Choose **New Entries** and enter the following data according to your business requirements:

   > ⓘ Note
   >
   > If you have many suppliers and you don't want to enter each of them, leave the **Invoicing Party** field empty. The rules are then applied to all of your suppliers (using wildcards).

   > Example

Invoicing Party	Program Parameter Configuration ID
`10300085`	`Default`

5. Choose **Save** > **Exit**.

Mapping SAP Tax Codes to Tax Categories

Context

Maintain the tax code in the `ARBCIG_TAXCATMAP` table for either a single tax category or for multiple tax categories. If a tax code is associated with more than one tax category, you must additionally maintain the tax code, tax jurisdiction code, transaction key, vendor, and country code for each corresponding tax category. This

configuration is required to correctly process tax for ERP-initiated invoices and payment proposals that include additional tax information.

Use transaction code `FTXP` to review the system settings for the tax code, tax jurisdiction, and transaction key. Ensure that the values maintained in the `ARBCIG_TAXCATMAP` table exactly match the values configured in `FTXP`.

Procedure

1. Log on to the **SAP GUI** in the SAP S/4HANA.
2. Run the transaction **SPRO** and choose **SAP Reference IMG**.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **SAP Business Network Integration** > **Application Specific Settings** > **ERP-Initiated Invoice**.
4. Click **IMG-Activity** for **Map SAP Tax Codes to Tax Categories**.
   The **Change View "Ariba Tax Code to Tax Category Map": Overview** screen appears.
5. Click **New Entries**.
   The **New Entries: Details of Added Entries** screen appears.
6. Do one of the following:
   - To maintain a tax code for a single tax category, enter the following details:
     - **Tax Code**: Enter the tax code assigned to the tax category. For example, IJ.
     - **Tax Category**: Enter the tax category associated with the tax code. For example, PST, GST.
   - To maintain a tax code for multiple tax categories, enter the following details:
     - **Tax Code**: Enter the tax code. For example, IJ.
     - **Tax Jurisdiction**: Enter the tax jurisdiction or location. For example, CABC.
     - **Transaction Key**: Enter the transaction key associated with the tax code and jurisdiction. For example, MW2.
     - **Vendor**: Enter the vendor code. For example, 100000.
     - **Country Code**: Enter the country code. For example, DE.
     - **Tax Category**: Enter the tax category for the tax code. For example, PST, GST.
7. Save and execute.

Assign Tax Codes

Context

This procedure describes how to assign tax codes and tax types as sent by your invoicing party to tax codes defined in the system. Tax rates and tax types are transferred by a SOAP service that is used to transfer supplier invoice data.

Procedure

1. Log on to the **SAP GUI** in the SAP S/4HANA.
2. Run the transaction **SPRO** and choose **SAP Reference IMG**.
3. Choose **Materials Management** > **Logistic Invoice Verification** > **Electronic Data Interchange (EDI)** > **SOAP Services** > **Assign Tax Codes for the Transfer of Supplier Invoices**.
4. Choose **New Entries** and enter the following data according to your business requirements:

   If you have many suppliers and you don't want to enter each of them, leave the **Invoicing Party** field empty. The rules are then applied to all of your suppliers (using wildcards).

   Example

Invoicing Party	Tax Type	Tax Rate	Country Key	Tax Code
10300085	VAT	0	DE	V0
10300085	VAT	7	DE	V2
10300085	VAT	19	DE	V1

5. Choose **Save** > **Exit**.

Defining Mapping of External System and Logical Port for Outbound Services for SES

Context

Procedure

1. Log on to the SAP GUI in the SAP S/4HANA system.
2. Run the transaction SPRO, and choose **SAP Reference IMG**.
3. Choose **Integration with Other SAP Components** > **Integration for Purchasing** > **Basic Settings** > **Define Communication Systems for Outbound Messages**.
4. Choose **New Entries** and enter the following data:

External System ID	Proxy Class of Logical Port	Logical Port
`<ANID of buyer system e.g.: AN02005439245-T>`	`CO_MMPUR_SES_STATUS_NOTIF_OUT`	`<SERVICEENTRYSHEET_LP>`

5. Choose **Next** > **Finish**.

Configuring Custom Routing

Context

Create custom routing to direct transaction documents between SAP Business Network or SAP Ariba applications and the relevant SAP ERP system based on document type. This routing should convert the business system ID into the corresponding logical system ID. This configuration is required only for lean SES responses, as the `ServiceEntrySheetStsNotif_Out` outbound interface always sends the business system ID (e.g., QWK_520), which must be replaced with the logical system ID (e.g., QWKCLNT520).

Procedure

1. Sign in to the SAP Integration Suite, managed gateway portal.
2. Go to **My Configuration** and then click **Custom Routing**.
3. Click **Create Custom Routing**.
4. Choose the following on the My Configuration - Custom Routing page:
   - **Direction**: **Outbound** - To route documents from the SAP ERP system to SAP Business Network or SAP Ariba applications.
   - **Document Type**: `StatusUpdateRequest (S4HANA ServiceSheetResponse)`
   - **Action**: This field stores the value “Replace System ID.”
   - **Name**: Enter a name for the custom routing. For example, LogicalSYS.
   - **Description**: Enter a description for the custom routing.
   - **Action Value**: Choose the system ID for the SAP ERP system. SAP Integration Suite, managed gateway routes the transaction documents to this SAP ERP system.
5. In the **Conditions** table, click the plus sign (Add) to specify the Xpath.
   - Select from the available Xpaths. Select `/ServiceEntrySheetStsNotifMsg/MessageHeader/SenderBusinessSystemID`
   - To create a new Xpath, click the **New XPath** button. In the **Custom XPath** pop up, enter values for the **Name**, **Description**, **XPath**, **Data Type** fields. Enter the `/ServiceEntrySheetStsNotifMsg/MessageHeader/SenderBusinessSystemID` XPath and data type as `String`.
6. Enter the following values:

- **Operand**: EQUALS
- **Expected Value**: Business system ID, sample format would be *`SystemID_Client`*. For example, QWK_520
- **Conjunction**: AND

7. Save the changes.

Activating Flexible Workflow for SES

Procedure

1. Run the transaction code SPRO.
   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.
   The **Display IMG** screen appears.
3. Navigate to **SAP Customizing Implementation Guide** > **Materials Management** > **Purchasing** > **Service Procurement - Lean Services** > **Flexible Workflow for Service Entry Sheets - Lean Services** > **Activate Flexible Workflow for Service Entry Sheets - Lean Services** >.
4. Click **IMG_activity**.
   The **Change View- Activate Flexible Workflow for SES (Maintain..":Overview** screen appears.
5. Click **New Entries**.
   The **New Entries: Details of Added Entries** screen appears.
6. Check the checkbox for **Service Entry Sheet: Flexible Workflow is Active**.
7. Save.

Restrictions

- Attachments are not supported.
- SAP Business Network does not support material item hierarchy for ASN.
- SAP S/4HANA does not support splitting by quantity or percentage for services with enhanced limits.
- ERP-initiated service entry sheets (SES), that is service entry sheets created by the buyer in the ERP system and sent to the supplier in SAP Business Network, are not supported.
- For SES create, cancel, correct, invoice with overall limit is not supported.

Implementation

Configure the interface setup. For more information, please see Configuring the Interface Setup [page 759].

To configure lean services using OPD, perform the following steps:

1. Configure the SOAP service for purchase order. For more information, please see Configuring the SOAP Service for Purchase Order [page 773].
2. Configure the output parameter determination. For more information, please see Setting up Output Parameter Determination [page 776].
3. Edit the WSDL definition files. For more information, please see Editing WSDL Definition Files [page 778].
4. Configure the partner profile. For more information, please see Configuring Partner Profile to Trigger IDoc [page 782].

To configure lean services using NACE, perform the following steps:

1. Define message output control for all document types. For more information, please see Defining Message Output Control for Purchase Order [page 783] and Defining Message Output Control for ERP-Initiated Invoice [page 785].
2. Implement routine to suppress IDocs for services. For more information, see Implementing Routine to Suppress IDocs for Lean or Enhanced Limit Purchase Order [page 790]. Use the existing routine to Implementing Routines to Prevent Creation of Duplicate MM IDocs [page 271], example 904, add the below include at the end of the routine to suppress the invoice iDOCs for lean ERP-initiated invoices.

   Source Code

   ```
   IF SY-SUBRC = 0.
   INCLUDE S4CINT_LEAN_INV_SUPPRES_IDOC.
     ENDIF.
   ```

Additional configurations:

- You can also use AIF monitoring. For more information, please see AIF Monitoring [page 791].
- You can create custom mappings using the following document types:
  - `PurchaseOrderRequest`
  - `ServiceEntrySheetLean`
  - `InvoiceDetailRequestLean`
  - `SupplierInvoice`

  Note

  Implement the OSS Note 3786672 to include lean procurement order indicator to use custom mapping.

  For more information on creating and managing custom mappings, please see Managing Custom Mappings [page 661]
- You can also choose to implement the BAdIs for using lean services. For more information, please see Implementing BAdIs for the Supported Lean Services Transactions [page 788]
- For details on configurations for SES, please see Service Sheet Configuration in SAP ERP and SAP S/4HANA [page 363].
- For details on configurations for ASN, please see Configuring Ship Notices in SAP ERP and SAP S/4HANA [page 344].

Configuring the SOAP Service for Purchase Order

Context

Use this procedure to configure the SOAP service to connect with SAP Integration Suite, managed gateway.

Procedure

1. Run the transaction `SOAMANAGER`.
2. Creating configuration profile.
    a. Navigate to **Technical Administration** > **Profiles** tab.
    The **Profiles** screen with an overview of configuration profiles is displayed.
    b. On the **Profiles** screen, choose **Create Profile**.
    c. Enter a name, and a description for the new configuration profile and choose **Next**.
    The **Enter Security Settings** screen is displayed.
    d. Enter the following information according to your business requirement:
        - **Transport Level Security**: None
        - **Message Level Security**: None
        - **Authentication Method: Transport Channel Authentication**: User ID/Password
    e. Choose **Next**.
    The **Enter Transport Settings** screen is displayed.
    f. Enter the following information:
        - **Transport Binding Type**: SOAP 1.1
        - **Optimized XML Transfer**: MTOM
        - **IBC Determination Type**: No IBC Determination
    g. Choose **Finish**.
    The **SOA Management** dialog box is displayed.
    h. In the **SOA Management** dialog box, you're asked if you want to activate this configuration profile immediately. Choose **Yes**.
    The configuration profile is now active and assigned a version number.
3. Creating provider systems.
    a. Navigate to **Technical Administration** > **Provider Systems**.
    The **Provider Systems** screen is displayed.
    b. Navigate to **Create Special** > **Create Third Party System**.
    The **Enter Provider System name and Profile name** screen is displayed.
    c. Enter the following information according to your business requirement:
        - **Provider System-Name**: **`CIG_S4CINT`**
        - **Profile Name**: Select the configuration profile name from the dropdown list that you've created in the previous steps.

d. Choose **Next**.
e. On the **Enter credentials to access service metadata like WSDL and WSIL on current system** screen, select the **Basic authentication** radio button and enter the following data according to your business requirements:
   - **WSIL Service - User for WSIL**: <User for WSIL>
   - **WSIL Service - Password for WSIL**: <Password for WSIL>
   - **WSIL Documents - Use WSIL user**: Select the checkbox.
f. To check whether the name and password are correct, choose **Check**.
g. Choose **Finish**.
   The provider system is created. By default, a provider system is inactive. A dialog box is displayed. In the dialog box, don't activate the provider system yet.
h. Select your provider system and choose **Edit**.
i. Navigate to **WSDL assignment** tab and choose **Upload**.
j. Choose the WSDL definition file for the proxy that you've created and choose **Next**.
k. Select **Service:service**.
l. Choose **Next** > **Next** > **Confirm**.
m. Now you can activate the provider system.

4. Creating logon data management.
   a. Navigate to **Service Administration** > **Logon Data Management**.
      The **Logon Data Management** screen is displayed.
   b. Choose **Create** on the **Maintenance** tab.
   c. On the **Enter type, name, and description for logon data** screen, enter the following information according to your business requirement:
      - **Logon Data Name**: `CIG_S4CINT`
      - **Description**: Enter the description
   d. Choose **Next**.
      The **Select an authentication method and specify details if needed** screen is displayed.
   e. Enter the following information:
      - SAP Integration Suite, managed gateway
        - **Authentication Method**: User/Password or X.509
        - **User Name**: Enter the P-user name.
        - **Password**: Enter the P-user password.
        - **Confirm Password**: Confirm the P-user password.
   f. Choose **Next** > **Finish**.
      The **SOA Management** dialog box is displayed.
   g. In the SOA Management dialog box, you're asked if you want to activate this logon data immediately. Choose **Yes**.
      The logon data is now active.

5. Creating local integration scenario configuration.
   a. Navigate to **Service Administration** > **Local Integration Scenario Configuration**.
      The **Integration Scenario Configuration** screen is displayed.
   b. Choose **Create**.
      The **Enter Business Scenario Type, Name and Description** screen is displayed.
   c. Enter the following information according to your business requirement:

- **Name**: **`CIG_S4CINT`**
- **Description**: Description

d. Choose **Next** twice.
The **Select service groups and assign IBC references in provider systems** screen is displayed.
e. Choose **Add**.
f. In the **Add consumer** dialog box, enter **Object Name**: **`S4CINT_PO_SRV_GRP`** as search criteria and choose **Search**.
g. In the search result list, select the corresponding object. Choose **OK**.
h. Select the service group and choose **Assign IBC Reference**.
The **Assign Provider IBC Reference** dialog box is displayed.
i. Search for the scenario name you created, **`CIG_S4CINT`**. Choose **Assign to Service Group**.
j. Choose **Next**.
The **Logon Data Assignment** screen is displayed.
k. Select the logon data you created in the previous step, in the **Logon Data** column.
l. Choose **Finish**.
The **SOA Management** dialog box is displayed.
m. In the **SOA Management** dialog box, you're asked if you want to activate this integration scenario immediately. Choose **Yes**.
The local integration scenario configuration is now active.

6. Processing Pending Tasks.
a. Navigate to the **Service Administration** tab.
b. Choose **Pending Tasks**.
The **Pending Tasks** screen is displayed.
c. Choose **Rebuild List** > **Process List**.
The **SOA Management** dialog box is displayed along with the system message `Pending Tasks were processed`.

7. Creating logical determination for receiver using service groups.
a. Navigate to the **Service Administration** tab.
b. Choose **Logical Determination of Receiver Using Service Groups**.
The **Service group maintained for Logical Receiver Determination** screen is displayed.
c. Choose **Create**.
d. In the **Service Group** field, enter **`S4CINT_PO_SRV_GRP`**.
e. In the **Provider IBC Reference** field, enter the provider system name you created before, for example **`CIG_S4CINT`**.
f. Choose **Next**.
g. Under the **Routing Parameter for Logical Receiver Determination** section, search for the business partner as follows:
- **BusinessPartner**: Enter your supplier number.

> Example
>
> - **BusinessPartner**: **`10300080`** (Enter your supplier number)

h. Click **Create New Routing**.
The created routing is displayed under the **Routings for Service Group S4CINT_PO_SRV_GRP** section below.
i. Click **Apply to Routing**.

j. Click **Finish**.

Setting up Output Parameter Determination

This procedure describes how to set up the output parameter determination settings for the purchase order business document.

Prerequisites

- To use the settings of SAP S/4HANA output management, the files containing the BRFplus settings need to be uploaded to the SAP S/4HANA system. For more information about the download of the BRFplus ZIP files, refer to the SAP Note 2248229 . After implementing the SAP Note, perform the following procedure:
  1. Run the transaction `BRFPlus`.
  2. Under **Repository**, search for **`OPD_EF_PURCHASE_ORDER`**.
  3. Expand the `OPD_PURCHASE_ORDER` node.
  4. Expand the `Data Object` node, then the `Structure` node and then click on **Condition Parameters of App**.
  5. Click **Edit** and then click **Refresh Binding** under **Define Data Binding**. The **Item Category** and **Product Type Group** appears.
  6. Click **Save and Activate**.
- Run the transaction code SPRO and navigate to **SAP Reference IMG** > **Cross-Application Components** > **Output Control** > **Manage Application Object Type Activation**. Maintain **Application Object Type** status to **1 Application Active** for purchase order.
- Run the transaction code SPRO and navigate to **SAP Reference IMG** > **Cross-Application Components** > **Output Control** > **Assign Output Channels**. Maintain the EDI and IDOC channel values as follows:

Application Object Type	Output Type	Channel
PURCHASE_ORDER	S4CINT_PURCHASE_ORDER	EDI
PURCHASE_ORDER	S4CINT_PURCHASE_ORDER	IDOC

Procedure

1. Run the transaction `OPD`.
   The **Output Parameter Determination** screen is displayed.
2. In the **Select Business Rules** section, enter the following data:
   - **Show Rules for**: From the dropdown list, select **Purchase Order**.
   - **Determination Step**: From the dropdown list, select **Output Type**.

   After a short processing time, all details are displayed in the Maintain Business Rules section.

3. In the **Maintain Business Rules** section, choose **Edit**.
4. In the **Table Contents** section, choose the icon to insert new row.
   A new row is automatically inserted with the next higher row number in the # column.
5. In the newly inserted row, for each column, use the dropdown list, and choose **Direct Value Input** to enter the following data:
   - **Output Type**: S4CINT_PURCHASE_ORDER (Purchase Order)
   - **Dispatch Time**: 1
6. In the **Maintain Business Rules** section, choose **Activate** (Ctrl + A).
   The **Confirm Activation** pop-up window is displayed
7. To confirm the activation of the output type, choose **Yes**.
   The system message `Objects saved and activated` is displayed.
8. In the **Select Business Rules** section, enter the following data:
   - **Show Rules for**: From the dropdown list, select **Purchase Order**.
   - **Determination Step**: From the dropdown list, select **Receiver**.

   After a short processing time, all details are displayed in the **Maintain Business Rules** section.
9. Choose **Edit**.
10. In the **Table Contents** section, choose the icon to insert new row.
    A new row is automatically inserted with the next higher row number in the # column.
11. In the newly inserted row, for each column, use the dropdown list, and choose **Direct Value Input** to enter the following data:
    - **Output Type**: S4CINT_PURCHASE_ORDER
    - **Role**: LF
    - **Exclusive Indicator**: - (false)
12. In the **Maintain Business Rules** section, choose **Activate** (Ctrl + A).
    The system message `Objects saved and activated` is displayed.
13. In the **Select Business Rules** section, enter the following data:
    - **Show Rules for**: From the dropdown list, select **Purchase Order**.
    - **Determination Step**: From the dropdown list, select **Channel**.

    After a short processing time, all details are displayed in the **Maintain Business Rules** section.
14. Click **Edit**.
15. Choose **Table Settings**.
16. Click **Insert Column** under **Condition** .
17. Under the **From Context Data Objects** option, select the **Item Category** and **Product Type Group** fields and click **OK**.
18. In the **Table Contents** section, choose the icon to insert new row.
    A new row is automatically inserted with the next higher row number in the # column.
19. In the newly inserted row, for each column, use the dropdown list, and choose **Direct Value Input** to enter the following data for the proxy output type:
    - **Output Type**: S4CINT_PURCHASE_ORDER (Purchase Order)
    - **Role**: LF
    - **Channel**: EDI (EDI)
    - **Item Category**: Click **Change**, choose **Insert Include Condition** from the dropdown and then enter **0**(Standard), **A**(Enhanced Limit)

- **Product Type Group**: Click **Change**, choose **Insert Include Condition** from the dropdown and then enter **1**(Material), **2**(Service)

20. In the newly inserted row, for each column, use the dropdown list, and choose **Direct Value Input** to enter the following data for the IDoc output type:
    - **Output Type**: S4CINT_PURCHASE_ORDER (Purchase Order)
    - **Role**: LF
    - **Channel**: IDOC (IDOC)
    - **Item Category**: Enter **9**(Service), **1**(Limit)
    - **Product Type Group**: Enter Space.
21. In the **Maintain Business Rules** section, choose **Activate** (Ctrl + A).
    The system message `Objects saved and activated` is displayed.
22. In the **Select Business Rules** section, enter the following data:
    - **Show Rules for**: From the dropdown list, select **Purchase Order**.
    - **Determination Step**: From the dropdown list, select **Output Relevance**.

    After a short processing time, all details are displayed in the **Maintain Business Rules** section.
23. Choose **Edit**.
24. In the **Table Contents** section, choose the icon to insert new row.
    A new row is automatically inserted with the next higher row number in the # column.
25. In the newly inserted row, for each column, use the dropdown list, and choose **Direct Value Input** to enter the following data:
    - **Output Type**: S4CINT_PURCHASE_ORDER (Purchase Order)
    - **Relevance Indicator**: X (true)
26. In the **Maintain Business Rules** section, choose **Activate** (Ctrl + A).
    The system message `Objects saved and activated` is displayed.

Editing WSDL Definition Files

Prerequisites

Ensure that you have downloaded the WSDL definition file and saved it locally. For more information on how to download the WSDL files, please see Downloading the WSDL Definition Files for Service Users [page 762].

Context

This procedure describes how to edit the WSDL definition file for several service consumer.

Procedure

1. Open the locally stored WSDL definition file for the `PurchaseOrderRequest_Async_Out`service consumer in a XML editor of your choice, for example, Notepad++.
2. Add the following text in front of the last tag `</wsdl: definitions>`:

   Sample Code

   ```
   <wsdl:binding name="binding" type="tns:PurchaseOrderRequest_Async_Out">
    <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/
   http"/>
    <wsdl:operation name="PurchaseOrderRequest_Async_Out">
    <soap:operation soapAction="http://sap.com/xi/S4CINT/
   PurchaseOrderRequest_Async_Out/PurchaseOrderRequest_Async_Out"
   style="document"/>
    </wsdl:operation>
   </wsdl:binding>
   <wsdl:service name="service">
    <wsdl:port name="binding" binding="tns:binding">
    <soap:address location="<!--Add the correct address location value
   according to your settings.-"/>
    </wsdl:port>
   </wsdl:service>
   ```

   Note

   Be aware to add the correct address location value for the `<soap:address location=""/>`according to your settings.

3. Enter the following URL depending on the environment to which you want to connect to:

Environment	URL
SAP Integration Suite, managed gateway for spend management and SAP Business Network - Quality system	European Union (EU) Data Center **https://test-integration.eu.managedgateway.cloud.sap/cxf/receiveS4SOAP** European Access (EA) Data Center **https://test-integration.eua.managedgateway.cloud.sap/cxf/receiveS4SOAP** North America (NA) Data Center **https://test-integration.us.managedgateway.cloud.sap/cxf/receiveS4SOAP** China (CN) Data Center **https://test-integration.managedgateway.sapcloud.cn/cxf/receiveS4SOAP** Kingdom of Saudi Arabia (KSA- Public) Data Center **https://test-integration.ksa30.managedgateway.cloud.sap/cxf/receiveS4SOAP** Kingdom of Saudi Arabia (KSA- Private) Data Center **https://test-integration.ksa31.managedgateway.cloud.sap/cxf/receiveS4SOAP** India Data Center **https://test-integration.in.managedgateway.cloud.sap/cxf/receiveS4SOAP** United Arab Emirates (UAE) Data Center **https://test-integration.uae.managedgateway.cloud.sap/cxf/receiveS4SOAP**

Environment	URL
SAP Integration Suite, managed gateway for spend management and SAP Business Network - Production system	European Union (EU) Data Center **https://integration.eu.managedgateway.cloud.sap/cxf/receiveS4SOAP** European Access (EA) Data Center **https://integration.eua.managedgateway.cloud.sap/cxf/receiveS4SOAP** North America (NA) Data Center **https://integration.us.managedgateway.cloud.sap/cxf/receiveS4SOAP** China (CN) Data Center **https://integration.managedgateway.sapcloud.cn/cxf/receiveS4SOAP** Kingdom of Saudi Arabia (KSA- Public) Data Center **https://integration.ksa30.managedgateway.cloud.sap/cxf/receiveS4SOAP** Kingdom of Saudi Arabia (KSA- Private) Data Center **https://integration.ksa31.managedgateway.cloud.sap/cxf/receiveS4SOAP** India Data Center **https://integration.in.managedgateway.cloud.sap/cxf/receiveS4SOAP** United Arab Emirates (UAE) Data Center **https://integration.uae.managedgateway.cloud.sap/cxf/receiveS4SOAP**

Environment	URL
SAP Cloud Integration Environment	`https://<your SAP Cloud Integration Hostname>/cxf/receiveS4SOAP` **Note** This URL is the endpoint of the corresponding iFlow that has been deployed on your SAP Cloud Integration. For more information, refer to SAP Note 3065371.

4. Save the file.

Configuring Partner Profile to Trigger IDoc

Context

Perform the following steps to trigger IDoc.

Procedure

1. Run the transaction code `WE20`.
2. Navigate to **Partner Profile** > **Partner Type LI**.
3. Enter values for the following parameters:
   - **Partner No.**: Select the required vendor.
   - **Partn.Type**: Enter `LI`.
4. Click **Save**.
   The entered partner number is now listed under **Partner type LI**.
5. Double-click the partner number listed under **Partner type LI** and then click **Create outbound parameter**.
   The **Partner profiles: Outbound parameters** screen appears.
6. Enter the following information:

Message Type	Receiver port	Transfer IDoc immediately	Basic Type
ORDERS	CIGPORT, for example	Select the option.	ARBCIG_ORDERS

7. Click **Save**.

Defining Message Output Control for Purchase Order

Context

This procedure describes how to define the message output control for a purchase order. You define basic data, processing routines, partner functions, and conditions for the output type for purchase order.

Procedure

1. Log on to the SAP GUI in the SAP S/4HANA or SAP S/4HANA Cloud Private Edition system.
2. Run the transaction `NACE`.
3. To **define the basic data for the output type**, perform the following steps:
   a. On the **Conditions for Output Control** screen, go to the **EF** application and click **Output types**. The **Display View "Output Types": Overview** screen is displayed.
   b. Click the **Display->Change** icon at the top-left to enter the change mode.
   c. Click **New Entries**.
   d. Enter the following values:
      - **Output Type**: **`NEU`**
      - Under **General data**:
        - **Access Sequence**: **`0001`**
        - Select the **Access to conditions** checkbox
        - Select the **Multiple issuing** checkbox
      - Under **Default Values**:
        - **Dispatch time**: **`Send immediately (when saving the application)`**
        - **Transmission Medium**: **`EDI`**
        - **Partner Function**: **`LS`**
   e. Save
4. To **define processing routines for the output type**, perform the following steps. Here, you define how the supplier invoice of this new output type is processed by your SAP S/4HANA or SAP S/4HANA Cloud Private Edition system.
   a. Navigate to **Processing Routines**.
   b. Click **New Entries**.
   c. Enter the following values:
      - **Transmission Medium**: **`EDI`**
      - **Program**: **`S4CINT_RSNAST4EDISOA`**
      - **Form Routine**: **`ORDERREQUEST_OUT_PROCESSING`**
   d. Save.
5. To **define partner functions for output type**, perform the following steps. Here, you first define the combination of output medium and partner function for which you'll then define conditions.

a. Select the newly created output type **ZNEU**.
b. In the **Dialog Structure** section, select **Partner Functions**.
c. In the **Medium** section, choose **EDI**.
d. In the **Function** field, choose a partner function with the value **VN**.
e. Save your entries, and go to the **Conditions for Output Control** screen.

6. To **add an output type to the output determination**, perform the following steps:
   a. On the **Conditions for Output Control** screen, go to the **EF** application and choose **Procedures**.
   The **Change View "Procedures": Overview** screen is displayed.
   b. Choose the **RMBEF1** procedure.
   c. In the **Dialog Structure** section, choose **Control** > **New Entries**.
   d. Enter the following data:
      - **Step**: **30**
      - **Condition Type**: **ZNEU**
      - **Requirement**: 101 (Reprint)
   e. Save your entries, and go to the **Conditions for Output Control** screen.
7. To **define conditions for output types**, perform the following steps:
   a. On the **Conditions for Output Control** screen, go to the table entry with the following values:
   b. Select the table entry and choose **Condition Records**.
   The **Output Types** pop-up window is displayed.
   c. In the **Output Types** pop-up window, select the newly created output type **NEU**.
   d. Click **Condition Records**.
   The **Key Combination** pop-up window is displayed.
   e. Choose the entry **Purchasing Output Determination: Doc.Type/Purch.Org/Vendor**.
   f. Enter the following data according to your business requirements:

   Example

Field Name	Value	Description
Purchasing Doc. Type	**NB**	
Purch. Organization	**1010**	This is just an example. Enter your own purchasing organization.
Supplier	**10300085**	This is just an example. Enter your own supplier number.

   g. Choose **Execute**.
   h. In the **Conditions Recs.** table, enter the following data according to your business requirements:

Example

Field Name	Description	Value Example
Supplier	Specify a value for your supplier, if this field isn't already prefilled.	**10300085**
Name	Enter the name of your supplier.	EDI Supplier
Funct	Specify a value if this field isn't already prefilled.	**VN (Supplier)**
Partner	Specify a partner if required.	
Medium	Define the action that you want the system to perform if the defined conditions are fulfilled.	**6** (EDI) **Note:** This value triggers the program mentioned under Define Basic Data of Output Type to be executed.
Date/Time	Specify a value, if you want the program to be executed.	**4** (Send immediately) **Note:** SAP recommends entering this value when saving the application.
Language	No entries are required.	

i. Save the conditions record.

Defining Message Output Control for ERP-Initiated Invoice

Context

This procedure describes how to define the message output control for an ERP-initiated invoice for lean services. You define basic data, processing routines, partner functions, and conditions for the output type for ERP-initiated invoice.

Procedure

1. Log on to the SAP GUI in the SAP S/4HANA or SAP S/4HANA Cloud Private Edition system.
2. Run the transaction NACE.

3. To **define the basic data for the output type**, perform the following steps:
    a. On the **Conditions for Output Control** screen, go to the `MR` application and click **Output types**.
    The **Display View "Output Types": Overview** screen is displayed.
    b. Click the **Display->Change** icon at the top-left to enter the change mode.
    c. Click **New Entries**.
    d. Enter the following values:
        - **Output Type**: `LINV`
        - Under **General data**:
            - **Access Sequence**: `0004`
            - Select the **Access to conditions** checkbox
            - Select the **Multiple issuing** checkbox
        - Under **Default Values**:
            - **Dispatch time**: `Send immediately (when saving the application)`
            - **Transmission Medium**: `Special function`
            - **Partner Function**: `PI`
    e. Save.
4. To **define processing routines for the output type**, perform the following steps. Here, you define how the supplier invoice of this new output type is processed by your SAP S/4HANA or SAP S/4HANA Cloud Private Edition system.
    a. Navigate to **Processing Routines**.
    b. Click **New Entries**.
    c. Enter the following values:
        - **Transmission Medium**: `Special function`
        - **Program**: `S4CINT_INVC_COLLABN_NAST`
        - **Form Routine**: `SEND_DOCUMENT`
    d. Save.
5. To **define partner functions for output type**, perform the following steps. Here, you first define the combination of output medium and partner function for which you'll then define conditions.
    a. Navigate to **Partner Functions**.
    b. Click **New Entries**.
    c. Enter the following values:
        - **Medium**: `Special function`
        - **Function**: `PI`
    d. Save and return to the **Conditions for Output Control** screen .
6. To **add an output type to the output determination**, perform the following steps:
    a. On the **Conditions for Output Control** screen, go to the `MR` application and click **Procedures**.
    The **Change View "Procedures": Overview** screen is displayed.
    b. Choose the **MR0007** procedure.
    c. Navigate to **Procedures** > **Control** and double click.
    d. Click **New Entries**.
    The **New Entries: Overview of Added Entries** screen appears.
    e. Enter the following values:

- **Step**: `Example, 20`
- **Condition Type**: `LINV`

f. Save your entries, and go to the **Conditions for Output Control** screen.

> **Note**
>
> To prevent the impact of the error messages, perform the following steps:
>
> 1. Run the `OBA5` transaction.
> 2. Select `M8` as **Application Area**.
> 3. Click **New Entries**.
> 4. Under **Message Control by User**, maintain the following entries and **save**:
>
> | MsgNo | Message Text | Online | BatchID |
> |---|---|---|---|
> | 446 | ERS settlement: No message was found for partner &1/company code &2 | - (Switch off message) | - (Switch off message) |
> | 447 | Invoicing plan: No message was found for partner &1/company code &2 | - (Switch off message) | - (Switch off message) |
> | 448 | Revaluation: No message was found for partner &1/ company code &2 | - (Switch off message) | - (Switch off message) |

7. To **define conditions for output types**, perform the following steps:
   a. On the **Conditions for Output Control** screen, go to the `MR` application and click **Condition records**.
   b. Select the table entry and choose **Condition Records**.
   The **Output Types** pop-up window is displayed.
   c. In the **Output Types** pop-up window, select the newly created output type **LINV**.
   d. Click **Condition Records**.
   The **Key Combination** pop-up window is displayed.
   e. Choose the entry **Company Code/Invoicing**.
   f. Click **Execute**.
   The **Change Lean ERP Invoice (LINV): Selection** screen appears.
   g. Enter **Company Code** as 0001.
   h. Navigate to **Output Condition** > **Create**.
   i. In the **Conditions Recs.** table, enter the following data according to your business requirements:

> **Example**
>
> | Field Name | Description | Value Example |
> |---|---|---|
> | **Invoicing Party** | Specify a value for your supplier, if this field isn't already prefilled. | `AN_BP_0001` |
> | **Name** | Enter the name of your supplier. | Business Partner 0001 |

Field Name	Description	Value Example
Funct	Specify a value if this field isn't already prefilled.	**PI**
Partner	Specify a partner if required.	
Medium	Define the action that you want the system to perform if the defined conditions are fulfilled.	**8**
Date/Time	Specify a value, if you want the program to be executed.	**4** (Send immediately) **Note:** SAP recommends entering this value when saving the application.
Language	No entries are required.	

j. Save the conditions record.

8. Save

Implementing BAdIs for the Supported Lean Services Transactions

Context

Implement the BAdIs for the following transactions:

- Lean service purchase order
- Lean service entry sheet
- Lean service incoming invoice
- Lean ERP-initiated invoice

Procedure

1. Run the transaction code SPRO.

   The **Customizing: Execute Project** page appears.

2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.

3. Navigate to the path mentioned in the **SPRO Navigation** column in the following table.
4. Implement the BAdI. For more information about implementing a BAdI, see How to Implement a BAdI.

Transaction	SPRO Navigation	BAdI	Description	Method
Lean Service Purchase Order	**Integration with Other SAP Components** > **Integration with Procurement Applications** > **Application Specific Settings** > **Lean Purchase Order** > **BAdI for Lean Purchase Order**	S4CINT_PURCHASEORDER_OUT	Use this BAdI to customize lean service purchase orders information while integrating with SAP Business Network.	• **PRE_PROCESSING_PURCHASEORDER**: Use this method to pre-process lean service purchase order data for integration with SAP Business Network. • **POST_PROCESSING_PURCHASEORDER**: Use this method to post-process lean service purchase order data for integration with SAP Business Network.
Lean Service Entry Sheet	**Integration with Other SAP Components** > **Integration with Procurement Applications** > **Application Specific Settings** > **Lean Service Entry Sheet** > **BAdI for Lean Service Entry Sheet**	S4CINT_SES_CREATE	Use this BAdI to customize lean service entry sheet information while receiving from SAP Business Network.	• **PREPROCESSING_SES_CREATE**: Use this method to customize pre service entry sheet create changes. • **POSTPROCESSING_SES_CREATE**: Use this method to customize post service entry sheet create changes. • **PREPROCESSED_SES_UPDATE**: Use this method to customize pre service entry sheet update changes. • **POSTPROCESSING_SES_UPDATE**: Use this method to customize post service entry sheet update changes. **Note** Implement the SAP Note 3785499.
Lean Incoming Invoice	**Integration with Other SAP Components** > **Integration with Procurement Applications** > **Application Specific Settings** > **Lean Incoming Invoice** > **BAdI for Lean Incoming Invoice**	S4CINT_INVOICE_IN	Use this BAdI to customize the incoming invoice information while receiving from SAP Business Network.	• **PRE_PROCESSING_INVOICE**: Use this method to pre-process incoming invoice data integration with SAP Business Network. • **POST_PROCESSING_INVOICE**: Use this method to post-process incoming invoice data integration with SAP Business Network.

Transaction	SPRO Navigation	BAdI	Description	Method
Lean ERP-Initiated Invoices	**Integration with Other SAP Components** > **Integration with Procurement Applications** > **Application Specific Settings** > **Lean ERP-Initiated Invoice** > **BAdI for Lean ERP-Initiated Invoice**	S4CINT_SUPPLIER-INVOICE_OUT	Use this BAdI to customize the lean supplier invoice information while integrating with SAP Business Network.	• **PRE_PROCESS_SUPPLIERINVOICE**: Use this method to pre-process lean supplier invoice information for integration with SAP Business Network. • **POST_PROCESS_SUPPLIERINVOICE**: Use this method to post-process lean supplier invoice information for integration with SAP Business Network. **Note** Implement the SAP Note 3785499. This note is valid for SP02-03 versions.

Implementing Routine to Suppress IDocs for Lean or Enhanced Limit Purchase Order

Context

SAP Integration Suite, managed gateway, add-on for SAP S/4HANA creates IDocs for MM-SRV purchase orders. To restrict the creation of IDocs for lean or enhanced limit purchase orders, you need to implement a routine.

Procedure

1. Run the transaction code **SPRO**.

   The **Customizing: Execute Project** screen appears.
2. Click **SAP Reference IMG**.

   The **Display IMG** screen appears.
3. Navigate to **Integration with Other SAP Components** > **SAP Integration Suite, managed Gateway, add-on for SAP ERP for Buyer** > **Integration with Procurement Applications** > **Application Specific Settings** > **Lean Purchase Order**.
4. Click **IMG-Activity** for **Implement VOFM Routine to Suppress IDOCs for Lean/Enhance limit PO**.

   The **Maintain: Requirements & Formulas** screen appears.
5. On the **Requirements** menu, click **Output control**.
6. Scroll to the end and go to the routine number field.

7. Enter any routing number starting with `9`. For example, `905`. Customer routines start with the number `9`.
8. In the **Application** field, enter **`EF`** and press **Enter**.

   The **Register Object** page appears, where you must enter the access key.
9. Ensure that you generate the access key for the routine to enable you to add the ABAP code. To generate the access key, register the object in the SSCR (SAP Software Change Registration) by providing the object name.
10. Enter the access key for the object.
11. Click **Continue**.
12. Click the routine number in the **Maintain: Requirements Output control** page, and then click the **Source text** button on the application toolbar.
13. Press **Enter**.

    A new ABAP editor page appears.
14. Include `S4CINT_LEAN_PO_SUPPRES_IDOC` in the `FORM KOBEV_<Routine Number>`.
15. Save the changes and click the **Activate** button.
16. Click the **Back** button to go back and choose the routine number on the **Maintain: Requirements Output control** page.
17. On the **Edit** menu, click **Activate** to activate the routine.
18. Run the transaction code `NACE`.

    The **Conditions for Output Control** screen appears.
19. Select `EF` and click **Procedures**.

    The **Change View "Procedures": Overview** screen appears.
20. Select `RMBEF1` and double-click on **Control**.
21. Click **New Entries** and enter the following:

    - **Step**: For example, **`20`**
    - **Counter**: For example, **`1`**
    - **CTyp**: For example, **`ZNEU`**
    - **Requirement**: Enter if required. For example, **`905`**
22. Click **Save**.
23. Perform any **one** of the following steps:

    - Run report **`RV80HGEN`** in the target system to activate and register VOFM form routine changes, **OR**
    - Add the following program manually in the transport to run automatically in all target systems when the transport is moved:
      - **Program ID**R3TR
      - **Program type** XPRA
      - **Object Name** RV80HGEN

AIF Monitoring

The Application Interface Framework (AIF) monitoring allows you to monitor, analyze, and resolve inbound and outbound interface messages (such as IDocs, Web Services, bgRFC, qRFC, and events) within the SAP

ABAP environment. It provides a unified framework for interface execution status, error handling, and message reprocessing.

As part of this feature, AIF monitoring is supported for the following transaction documents for lean procurement:

- Lean purchase order
- Order confirmation
- Advance ship notice
- Supplier submitted SES and invoice
- ERP-initiated invoice
- Invoice status update response
- SES status update response

Here's the logging behavior for the following transactions:

Transaction	Info
Order Confirmation	You can access the success or failure logs recorded in `WE02` and `SLG1`. For more information, please see 2939098.
• Invoice status update response • Advance ship notice	You can access the logs recorded in `SRT_MONI` and `SLG1`. For more information, please see 2939098.

For rest of the transactions(lean purchase order, supplier submitted SES and invoice, and SES status update response) perform the following steps to extract content for AIF monitoring:

1. In the SAP S/4HANA system, you must trigger the AIF content activation manually for the deployment scenario you wish to monitor via `/AIF/CONTENT_EXTRACT`.
   Some applications deliver packed AIF content, which can be identified by the **Deployment Scenario**. You can unpack this content using the transaction **AIF Content Transport - Deploy** (`/AIF/CONTENT_EXTRACT`).
   During the extraction process, you can assign the unpacked customizing entries to a transport request.
2. Under **Deployment Scenario**, enter the **Deploy. Scenario ID** : **`SAP_AIF_0128`**.
3. Execute.

You can use AIF for monitoring and error handling for all the transactions as follows:

1. Run the transaction code `/AIF/ERR` .
2. Enter the corresponding namespaces for the transactions as follows:
   - **`/S4CI/`**: For all lean proxies (for service purchase order, supplier submitted SES and invoice, ERP-initiated invoice and SES status update response)
   - **`/ACIGI`**: For order confirmation and advance ship notice
   - **`/ACIGO`**: For invoice status update

> **Note**
>
> Implement 3709208 if you are unable to view detailed error messages for inbound transactions using the `/AIF/ERR` error monitoring tool.

Configuring Lean Services Integration between SAP S/4HANA and SAP Ariba Sourcing using SAP Integration Suite, Managed Gateway Add-On

The integration between SAP S/4HANA and SAP Ariba Sourcing using the add-in now supports lean services. For more information, refer to Support for Lean Services Integration between SAP S/4HANA and SAP Ariba Sourcing using SAP Integration Suite, Managed Gateway Add-On.

To Replicate purchase requisition containing lean services (with or without item hierarchy) created using the Manage Purchase Requisition Fiori application from SAP S/4HANA to SAP Ariba Sourcing, you'll need to implement the following:

- Configuring the Interface Setup [page 759]
- Configuring Filters for Purchase Requisition [page 793]

Configuring Filters for Purchase Requisition

You'll need to configure filters that need to be fulfilled to create a purchase requisition.

Context

Use this task to configure filters involving combinations of document type, purchasing group, and purchasing organization in your backend system. If you don't want to maintain any specific combinations and want to allow all, you can simply maintain a row each for document type, purchasing group, and purchasing organization with **Active** status.

> **Note**
>
> Maintaining filters is mandatory.

Procedure

1. Run the SPRO transaction code and click **SAP Reference IMG**.
2. Navigate to **Integration with other SAP components** > **Integration with Procurement Applications** > **Application Specific Settings** > **Lean Purchase Requisition**.
   The **Change View "Maintain Filter For Quote Request": Overview** screen appears.
3. Click **New Entries**.
   The **New Entries: Overview of Added Entries** screen appears.
4. Maintain the condition by selecting the combination of **Type** (Document Type), **PGr** (Purchasing Group), and **POrg** (Purchasing Organization).

> **Note**
>
> If you don't want to maintain any specific combinations and want to allow all, you can simply maintain a row each for document type, purchasing group, and purchasing organization.

5. Select the **Active** checkbox.

> **Note**
>
> It is important that you maintain this checkbox for the system to consider this condition. Only active conditions are considered.

6. Save your changes.

Using SAP S/4HANA Output Management Framework

Buyers on SAP S/4HANA Cloud Private Edition integrated using the SAP Integration Suite, managed gateway add-on can now use SOAP APIs with EDI channel. The feature leverages the SAP S/4HANA Output Management framework enabling you to send and receive goods receipt to and from SAP Ariba Buying or SAP Business Network.

The feature utilizes SAP S/4HANA Output Control, a key element of SAP S/4HANA output management, which is the framework for all functions and processes related to the output of documents in SAP S/4HANA. SAP S/4HANA output control structures output management and makes it reusable across all business functions that have adopted it.

This flexibility allows you to adopt the output control framework at your own pace while maintaining existing processes. The changes don't affect the user interface of your business end users but provide administrators and developers with additional tools for managing integrations.

> **Note**
>
> For goods receipt restrictions, refer to Goods Receipts for SAP Ariba Buying integration and Prerequisites and Limitations for SAP Business Network integration.

Prerequisites

- Your system is running on SAP S/4HANA Cloud Private Edition 2022 SP 05, or SAP S/4HANA Cloud Private Edition 2023 FPS 03 and later.
- You've installed the latest add-on service pack. You need the S4CI1 (SP 02) and ARBCI1 (SP 26) components.
- You're integrated with SAP Ariba Buying or SAP Business Network using the add-on and have configured the required transactions.

High-level Steps About Setting Up Goods Receipt

Step	Where to Perform
Creating a Service Group [page 796]	SAP S/4HANA Cloud Private Edition
Editing and Activating a Service Group [page 797]	SAP S/4HANA Cloud Private Edition
Maintaining Output Type and Service Group [page 797]	SAP S/4HANA Cloud Private Edition
Maintaining the Output Type and Service Group Using SPRO [page 799]	SAP S/4HANA Cloud Private Edition
Downloading and Editing the WSDL File [page 800]	SAP S/4HANA Cloud Private Edition

Step	Where to Perform
Maintaining Output Parameter Determination [page 805]	SAP S/4HANA Cloud Private Edition
Configuring SOAMANGER for Communication [page 807]	SAP S/4HANA Cloud Private Edition

Creating a Service Group

Create service groups in an ABAP back-end system by using the Object Navigator and specifying the required properties.

Procedure

1. Start the Object Navigator (transaction code `SE80`).
2. Locate the package in which you want to create the service group.
3. Right-click on the package to open the context menu.
4. From the context menu, choose **Create** → **Service Enterprise**.

   A wizard is started.
5. Select the **Service Group** radio button.
6. Choose **Continue**.
7. Specify a Service Group name (for example, `ZARBCIG_GR_BUY_SRV_GRP`), description, and the following options:
   - **Package**: Choose a transportable package.
   - **Transport**: Select a request from your transport system.
8. Choose **Continue**, then **Finish**.

   The new service group is displayed in the **Service Consumer Groups** folder. The information that you specified is displayed in the **Properties** tab.
9. Save the new service group.

   The new service group is saved and is inactive. Next, you need to edit the new service group. To do this, refer to Editing and Activating a Service Group [page 797].

Editing and Activating a Service Group

Edit the service group properties, configure LRD settings, assign consumer proxies, and activate the changes. Perform this task if you're using goods receipt for SAP Ariba Buying or SAP Business Network.

Procedure

1. In the Object Navigator (transaction code `SE80`), locate the service group that you want to edit.
2. Double-click the service group to display its properties.
3. Go to the **Properties** tab.
4. In the **Mode** box, choose the **LRD multiple receivers**.
5. In the **LRD Filter** box, give the existing structure `SMMIM_SOA_MATDOC_NOTIF_ROUTING` and save it.
   The system will auto generate the class.
6. Go to the **Consumer** tab.
7. Assign consumer proxies to the service group.
   Give the **Consumer ABAP Name** based on the solution you're using and press enter.

   Table 51:

Solution	Consumer ABAP Name
SAP Ariba Buying	`CO_ARBCIG_ERPTO_ARIBA_BUY_RESP`
SAP Business Network	`CO_ARBCIG_RECEIPT_DETAIL_REQ`

8. Save your changes and activate it.

Maintaining Output Type and Service Group

Maintain the new output type in view `APOC_S_EDI_OBSV` by creating a new entry with specific field values. You can then maintain the new service group by accessing the view SAPS_V_COM_W_OBS and configuring the required fields.

Procedure

1. Go to `SM30`, enter the view `APOC_S_EDI_OBSV`, and click the **Edit** button.
2. Click the **New Entries** button and maintain the following fields:
   - **Application Object Type**: Choose `GOODS_MOVEMENT`
   - **Output Type**: Based on the solution you're using, enter one of the following values:

Solution	Output Type
SAP Ariba Buying	ARBCIG_RECEIPT_EXPORT_BUY
SAP Business Network	ARBCIG_RECEIPT_REQUEST

- **Outbound Service ID**: Based on the solution you're using, enter one of the following values:

Solution	Outbound Service ID
SAP Ariba Buying	CO_ARBCIG_ERPTO_ARIBA_BUY_RESP_SPRX
SAP Business Network	CO_ARBCIG_RECEIPT_DETAIL_REQ_SPRX

- **Render**: Choose **Possible**

3. Save your changes.
4. Navigate back to SM30, enter the view SAPS_V_COM_W_OBS, and click **Edit**.
5. Click **New Entries** and maintain the following fields:
   - **Outbound Service ID**: Based on the solution you're using, enter one of the following values:

Solution	Outbound Service ID
SAP Ariba Buying	CO_ARBCIG_ERPTO_ARIBA_BUY_RESP_SPRX
SAP Business Network	CO_ARBCIG_RECEIPT_DETAIL_REQ_SPRX

   - **Service Type**: Select SOAP
   - **Message type**: leave as blank
   - **Basic Type**: leave as blank
   - **ABAP Name**: Based on the solution you're using, enter one of the following values:

Solution	Outbound Service ID
SAP Ariba Buying	CO_ARBCIG_ERPTO_ARIBA_BUY_RESP
SAP Business Network	CO_ARBCIG_RECEIPT_DETAIL_REQ

   - **Design Time Object Name**: Enter the service group name that you've created as a part of Creating a Service Group [page 796].

6. Save your changes.

Maintaining the Output Type and Service Group Using SPRO

Maintain the output type and service group configuration in SPRO by activating the application object type, defining output types, and assigning output channels.

Procedure

1. Go to SPRO transaction and click **SAP Reference IMG**.
2. Navigate to **Cross-Application Components → Output Control → Manage Application Object Type Activation IMG-Active**.
3. Click **New Entries** and maintain the following values:
   - **Application Object Type**: Choose GOODS_MOVEMENT.
   - **Status**: Choose **Application Active**.
   - Save your changes.
4. Navigate back to **Cross-Application Components → Output Control → Define Output Types** and click IMG-Active.
5. Click **New Entries** and maintain the following fields:
   - **Application Object Type**: Choose GOODS_MOVEMENT
   - **Output Type**: Based on the solution you're using, enter one of the following values:

Solution	Output Type
SAP Ariba Buying	ARBCIG_RECEIPT_EXPORT_BUY
SAP Business Network	ARBCIG_RECEIPT_REQUEST

   - **Text**: Enter a free text value
   - **Callback Class**: Enter CL_MM_IM_OUTPUT_CALLBACK
   - Save your changes.
6. Navigate back to **Cross-Application Components → Output Control → Assign Output Channels IMG-Active** button.
7. Click **New Entries** and maintain the following fields:
   - **Application Object Type**: GOODS_MOVEMENT
   - **Output Type**: Based on the solution you're using, enter one of the following values:

Solution	Output Type
SAP Ariba Buying	ARBCIG_RECEIPT_EXPORT_BUY
SAP Business Network	ARBCIG_RECEIPT_REQUEST

   - **Channel**: EDI
8. Save your changes.

Downloading and Editing the WSDL File

Save the WSDL definition for the service consumer to a local file in your SAP S/4HANA Cloud Private Edition system and then edit it.

Procedure

1. Log on to the SAP GUI in the SAP S/4HANA Cloud Private Edition system.
2. Run the transaction `SE80`.
3. Choose the **Package** object type.
4. In the **Package Name** field, enter one of the following based on the solution:

   Table 52:

Solution	Package Name
SAP Ariba Buying	`ARBCIG_PROXYOBJECTS`
SAP Business Network	`ARBCIG_PROXYOBJECTS`

5. Expand **Enterprise Services**, **Service Consumers**, and choose the service consumer based on your solution:

   Table 53:

Solution	Service Consumer
SAP Ariba Buying	`CLASCO_ARBCIG_ERPTO_ARIBA_BUY_RESP`
SAP Business Network	`CLASCO_ARBCIG_RECEIPT_DETAIL_REQ`

6. In the right section, choose the **WSDL** tab.
7. Choose **Save to file**, and enter a name for the WSDL definition.
8. Open the locally stored WSDL definition file for the in an XML editor of your choice, for example, Notepad++.
9. Based on yout solution, add the following text in front of the last tag `</wsdl: definitions>`:

Table 54:

Solution	Code
SAP Ariba Buying	Sample Code <<wsdl:binding name="binding" type="tns:ERPToAribaBuyerResponse_Async_Out"> <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/> <wsdl:operation name="ERPToAribaBuyerResponse_Async_Out"> <soap:operation soapAction="http://sap.com/xi/ARBCIG1/ERPToAribaBuyerResponse_Async_Out/ERPToAribaBuyerResponse_Async_Out" style="document"/> </wsdl:operation> </wsdl:binding> <wsdl:service name="service"> <wsdl:port name="binding" binding="tns:binding"> <soap:address location="<!--**Add the correct address location value according to your settings**--"/> </wsdl:port> </wsdl:service>
SAP Business Network	Sample Code <wsdl:binding name="binding" type="tns:ReceiptDetailRequest_Async_Out"> <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/> <wsdl:operation name="ReceiptDetailRequest_Async_Out"> <soap:operation soapAction="http://sap.com/xi/ARBCIG1/ReceiptDetailRequest_Async_Out/ReceiptDetailRequest_Async_Out" style="document"/> </wsdl:operation> </wsdl:binding> <wsdl:service name="service"> <wsdl:port name="binding" binding="tns:binding"> <soap:address location="<!--**Add the correct address location value according to your settings**--"/> </wsdl:port> </wsdl:service>

> **Note**
>
> Use the next step to add the correct address location value for the `<soap:address location=""/>` according to your environment.

10. Enter the following URL depending on the environment to which you want to connect to:

Environment	URL
SAP Integration Suite, managed gateway for spend management and SAP Business Network - Quality system	European Union (EU) Data Center **https://test-integration.eu.managedgateway.cloud.sap/cxf/receiveS4SOAP** European Access (EA) Data Center **https://test-integration.eua.managedgateway.cloud.sap/cxf/receiveS4SOAP** North America (NA) Data Center **https://test-integration.us.managedgateway.cloud.sap/cxf/receiveS4SOAP** China (CN) Data Center **https://test-integration.managedgateway.sapcloud.cn/cxf/receiveS4SOAP** Kingdom of Saudi Arabia (KSA- Public) Data Center **https://test-integration.ksa30.managedgateway.cloud.sap/cxf/receiveS4SOAP** Kingdom of Saudi Arabia (KSA- Private) Data Center **https://test-integration.ksa31.managedgateway.cloud.sap/cxf/receiveS4SOAP** India Data Center **https://test-integration.in.managedgateway.cloud.sap/cxf/receiveS4SOAP** United Arab Emirates (UAE) Data Center **https://test-integration.uae.managedgateway.cloud.sap/cxf/receiveS4SOAP**

Environment	URL
SAP Integration Suite, managed gateway for spend management and SAP Business Network - Production system	European Union (EU) Data Center **https://integration.eu.managedgateway.cloud.sap/cxf/receiveS4SOAP** European Access (EA) Data Center **https://integration.eua.managedgateway.cloud.sap/cxf/receiveS4SOAP** North America (NA) Data Center **https://integration.us.managedgateway.cloud.sap/cxf/receiveS4SOAP** China (CN) Data Center **https://integration.managedgateway.sapcloud.cn/cxf/receiveS4SOAP** Kingdom of Saudi Arabia (KSA- Public) Data Center **https://integration.ksa30.managedgateway.cloud.sap/cxf/receiveS4SOAP** Kingdom of Saudi Arabia (KSA- Private) Data Center **https://integration.ksa31.managedgateway.cloud.sap/cxf/receiveS4SOAP** India Data Center **https://integration.in.managedgateway.cloud.sap/cxf/receiveS4SOAP** United Arab Emirates (UAE) Data Center **https://integration.uae.managedgateway.cloud.sap/cxf/receiveS4SOAP**

Environment	URL
SAP Cloud Integration Environment	`https://<your SAP Cloud Integration Hostname>/cxf/receiveS4SOAP` **Note** This URL is the endpoint of the corresponding iFlow that has been deployed on your SAP Cloud Integration. For more information, refer to SAP Note 3065371.

11. Save the file.

Maintaining Output Parameter Determination

You can use the Output Parameter Determination app to create and maintain business rules in decision tables. These rules are used to determine the output parameters of specific business applications, which can result in one or many output items. You can maintain business rules per combination of business application and determination step. For more information, refer to Output Parameter Determination.

Context

Use this task to maintain business rules for good receipt and request for quotation.

Procedure

1. Run the transaction code `OPD`.
   The **Output Parameter Determination** screen appears.
2. Maintain the following values:
   After you select the **Show Rules for** and **Determination Step** , the existing records are displayed in the table. To add a row in the table, click **Edit** and then the add icon. A row is added at the bottom of the table for you to configure your values.

Table 55: Use this table to configure goods receipt for SAP Ariba Buying

Show Rules for	Determination Step	Table Contents
Goods Movement	**Output Type**	• Trans. Ev Type: `WE (Goods Receipt for Purchase Order)` • Output Type: ARBCIG_RECEIPT_EXPORT_BUY • Dispatch Time: 1 (Immediately)
	Receiver	• Output Type: ARBCIG_RECEIPT_EXPORT_BUY • Role: LF • Exclusive Indication: -(false) • Dispatch Time: 1 (Immediately)
	Channel	• Output Type: ARBCIG_RECEIPT_EXPORT_BUY • Channel: EDI (EDI) • Exclusive Indication: -(false) • Dispatch Time: 1 (Immediately)

Table 56: Use this table to configure goods receipt for SAP Business Network

Show Rules for	Determination Step	Table Contents
Goods Movement	**Output Type**	• Trans. Ev Type: `WE (Goods Receipt for Purchase Order)` • Output Type: ARBCIG_RECEIPT_REQUEST • Dispatch Time: 1 (Immediately)
	Receiver	• Output Type: ARBCIG_RECEIPT_REQUEST • Role: LF • Exclusive Indication: -(false) • Dispatch Time: 1 (Immediately)
	Channel	• Output Type: ARBCIG_RECEIPT_REQUEST • Channel: EDI (EDI) • Exclusive Indication: -(false) • Dispatch Time: 1 (Immediately)

3. Save your changes.

Configuring SOAMANGER for Communication

Context

Use this procedure to configure the SOAP service to connect with SAP Integration Suite, managed gateway.

Procedure

1. Run the transaction `SOAMANAGER`.
   The `SOA Management` screen is displayed.
2. Create a configuration profile for goods receipt. To do this:
   a. Navigate to **Technical Administration** > **Profiles** tab.
      The **Profiles** screen with an overview of configuration profiles is displayed.
   b. On the **Profiles** screen, choose **Create Profile**.
   c. Enter a name, and a description for the new configuration profile and choose **Next**.
      The **Enter Security Settings** screen is displayed.
   d. Enter the following information according to your business requirement:
      - **Transport Level Security**: None
      - **Message Level Security**: None
      - **Authentication Method: Transport Channel Authentication**: User ID/Password
   e. Choose **Next**.
      The **Enter Transport Settings** screen is displayed.
   f. Enter the following information:
      - **Transport Binding Type**: SOAP 1.1
      - **Optimized XML Transfer**: MTOM
      - **IBC Determination Type**: No IBC Determination
   g. Choose **Finish**.
      The **SOA Management** dialog box is displayed.
   h. In the **SOA Management** dialog box, you're asked if you want to activate this configuration profile immediately. Choose **Yes**.
      The configuration profile is now active and assigned a version number.
3. Create a provider system for goods receipt. To do this:.
   a. Navigate to **Technical Administration** > **Provider Systems**.
      The **Provider Systems** screen is displayed.
   b. Navigate to **Create Special** > **Create Third Party System**.
      The **Enter Provider System name and Profile name** screen is displayed.
   c. Enter the following information according to your business requirement:
      - **Name**: Enter a name for the provider system.

- **Profile Name**: Select the configuration profile name that you've created in the previous steps.

d. Choose **Next**.

e. On the **Enter credentials to access service metadata like WSDL and WSIL on current system** screen, select the **Basic authentication** radio button and enter the following data according to your business requirements:

- **WSIL Service - User for WSIL**: <User for WSIL>
- **WSIL Service - Password for WSIL**: <Password for WSIL>
- **WSIL Documents - Use WSIL user**: Select the checkbox.

f. To check whether the name and password are correct, choose **Check**.

g. Choose **Finish**.
The provider system is created. By default, a provider system is inactive. A dialog box is displayed. In the dialog box, don't activate the provider system yet.

h. Select your provider system for goods receipt and choose **Edit**.

i. Navigate to **WSDL assignment** tab and click **Upload**.

j. Choose the WSDL definition file for the proxy that you've created and choose **Next**.

k. Select **Service:service**.

l. Choose **Next** > **Next** > **Confirm**.

m. Now you can activate the provider system.

4. Create logon data management for goods receipt. To do this:

a. Navigate to **Service Administration** > **Logon Data Management**.
The **Logon Data Management** screen is displayed.

b. Choose **Create** on the **Maintenance** tab.

c. On the **Enter type, name, and description for logon data** screen, enter the following information according to your business requirement:

- **Logon Data Name**: Enter a name.
- **Description**: Enter a description.

d. Choose **Next**.
The **Select an authentication method and specify details if needed** screen is displayed.

e. Enter the following information:

- **Authentication Method**: User/Password or X.509
- **User Name**: Enter the P-user name of managed gateway.
- **Password**: Enter the P-user password of managed gateway.
- **Confirm Password**: Confirm the P-user password of managed gateway.

f. Choose **Next** > **Finish**.
The **SOA Management** dialog box is displayed.

g. In the SOA Management dialog box, you're asked if you want to activate this logon data immediately. Choose **Yes**.
The logon data is now active.

5. Creating local integration scenario configuration.

a. Navigate to **Service Administration** > **Local Integration Scenario Configuration**.
The **Integration Scenario Configuration** screen is displayed.

b. Choose **Create**.
The **Enter Business Scenario Type, Name and Description** screen is displayed.

c. Enter the following information according to your business requirement:

- **Name**: Enter a name.
- **Description**: Enter a description.

d. Choose **Next** twice.
The **Select service groups and assign IBC references in provider systems** screen is displayed.
e. Choose **Add**.
f. In the **Add consumer** dialog box, enter **Object Name**. Since you're configuring the scenario for goods receipt, enter the service group name that you've created and search.
g. In the search result list, select the corresponding object. Choose **OK**.
h. Select the service group and choose **Assign IBC Reference**.
The **Assign Provider IBC Reference** dialog box is displayed.
i. Search for the scenario name you created. Choose **Assign to Service Group**.
j. Choose **Next**.
The **Logon Data Assignment** screen is displayed.
k. Select the logon data you created in the previous step, in the **Logon Data** column.
l. Choose **Finish**.
The **SOA Management** dialog box is displayed.
m. In the **SOA Management** dialog box, you're asked if you want to activate this integration scenario immediately. Choose **Yes**.
The local integration scenario configuration is now active.

6. Process pending tasks. To do this:
a. Navigate to the **Service Administration** tab.
b. Choose **Pending Tasks**.
The **Pending Tasks** screen is displayed.
c. Choose **Rebuild List** > **Process List**.
The **SOA Management** dialog box is displayed along with the system message `Pending Tasks were processed`.

7. Create logical determination for receiver using service groups. To do this:
a. Navigate to the **Service Administration** tab.
b. Choose **Logical Determination of Receiver Using Service Groups**.
The **Service group maintained for Logical Receiver Determination** screen is displayed.
c. Choose **Create**.
d. In the **Service Group** field, since you're configuring the scenario for goods receipt, enter the service group name that you've created.
e. In the **Provider IBC Reference** field, enter the provider system name you created.
f. Choose **Next**.
g. Under the **Routing Parameter for Logical Receiver Determination** section:
For goods receipt:
- **Supplier**: Enter the supplier number.

h. Click **Create New Routing**.
The created routing is displayed.
i. Click **Apply to Routing**.
j. Click **Finish**.

Important Disclaimers and Legal Information

Hyperlinks

Some links are classified by an icon and/or a mouseover text. These links provide additional information.
About the icons:

- Links with the icon : You are entering a Web site that is not hosted by SAP. By using such links, you agree (unless expressly stated otherwise in your agreements with SAP) to this:
  - The content of the linked-to site is not SAP documentation. You may not infer any product claims against SAP based on this information.
  - SAP does not agree or disagree with the content on the linked-to site, nor does SAP warrant the availability and correctness. SAP shall not be liable for any damages caused by the use of such content unless damages have been caused by SAP's gross negligence or willful misconduct.
- Links with the icon : You are leaving the documentation for that particular SAP product or service and are entering an SAP-hosted Web site. By using such links, you agree that (unless expressly stated otherwise in your agreements with SAP) you may not infer any product claims against SAP based on this information.

Videos Hosted on External Platforms

Some videos may point to third-party video hosting platforms. SAP cannot guarantee the future availability of videos stored on these platforms. Furthermore, any advertisements or other content hosted on these platforms (for example, suggested videos or by navigating to other videos hosted on the same site), are not within the control or responsibility of SAP.

Beta and Other Experimental Features

Experimental features are not part of the officially delivered scope that SAP guarantees for future releases. This means that experimental features may be changed by SAP at any time for any reason without notice. Experimental features are not for productive use. You may not demonstrate, test, examine, evaluate or otherwise use the experimental features in a live operating environment or with data that has not been sufficiently backed up.
The purpose of experimental features is to get feedback early on, allowing customers and partners to influence the future product accordingly. By providing your feedback (e.g. in the SAP Community), you accept that intellectual property rights of the contributions or derivative works shall remain the exclusive property of SAP.

Example Code

Any software coding and/or code snippets are examples. They are not for productive use. The example code is only intended to better explain and visualize the syntax and phrasing rules. SAP does not warrant the correctness and completeness of the example code. SAP shall not be liable for errors or damages caused by the use of example code unless damages have been caused by SAP's gross negligence or willful misconduct.

Bias-Free Language

SAP supports a culture of diversity and inclusion. Whenever possible, we use unbiased language in our documentation to refer to people of all cultures, ethnicities, genders, and abilities.

www.ariba.com

Copyright © 2026 Ariba, Inc. All rights reserved.

This documentation, as well as the Ariba solutions, software and/or services described in it, contain proprietary information. They are provided under a license or other agreement containing restrictions on use and disclosure and are also protected by copyright, patent and/or other intellectual property laws. Except as permitted by such agreement, no part of the document may be reproduced or transmitted in any form by any means, electronic, mechanical or otherwise, without the prior written permission of Ariba, Inc.

Ariba, Inc. assumes no responsibility or liability for any errors or inaccuracies that may appear in the documentation. The information contained in the documentation is subject to change without notice.

Ariba and Ariba products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of Ariba, Inc. in the United States and other countries. Please see http://www.ariba.com/legal/trademarks for additional trademark information and notices.

Ariba Sourcing solutions (On Demand and software) are protected by one or more of the following patents, including without limitation: U.S. Patent Nos. 6,199,050; 6,216,114; 6,223,167; 6,230,146; 6,230,147; 6,285,989; 6,408,283; 6,499,018; 6,564,192; 6,871,191; 6,952,682; 7,010,511; 7,072,061; 7,130,815; 7,146,331; 7,152,043;7,225,152; 7,277,878; 7,249,085; 7,283,979; 7,283,980; 7,296,001; 7,346,574; 7,383,206; 7,395,238; 7,401,035; 7,407,035; 7,444,299; 7,483,852; 7,499,876; 7,536,362; 7,558,746; 7,558,752; 7,571,137; 7,599,878; 7,634,439; 7,657,461; 7,693,747; 8,364,577; and 8,392,317. Patents pending.

Other Ariba product solutions are protected by one or more of the following patents:

U.S. Patent Nos. 6,199,050, 6,216,114, 6,223,167, 6,230,146, 6,230,147, 6,285,989, 6,408,283, 6,499,018, 6,564,192, 6,584,451, 6,606,603, 6,714,939, 6,871,191, 6,952,682, 7,010,511, 7,047,318, 7,072,061, 7,084,998; 7,117,165; 7,225,145; 7,324,936; 7,536,362; 8,364,577; and 8,392,317. Patents pending.

Certain Ariba products may include third party software or other intellectual property licensed from a third party. For information regarding software or other intellectual property licensed from a third party, go to http://www.ariba.com/copyrights.cfm.