Configuration Guide
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Integration of SAP ERP and SAP Sourcing 9.0



Document History

> **Caution**
>
> Before you start the implementation, make sure that you have the most recent version of this documentation. You can find the most recent version on SAP Service Marketplace at service.sap.com/eso.

The following table provides an overview of the most important document changes.

Table 1

Version	Date	Description
2.1	2014-10-24	Corrected links to graphics.
2.0	2013-03-01	Added configuration information for *SAP NetWeaver PI AEX 7.3*.
1.1	2012-06-04	Minor corrections to guide content.
1.0	2012-04-20	For 9.0 On-Premise release.

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1 How To Use This Guide

To integrate SAP Sourcing with your business system, follow the procedures in this guide in the order in which they are presented. Procedures described later in the guide often depend on the completion of procedures that come earlier. Also, many procedures list as **Prerequisites** those procedures that must be completed before continuing the configuration.

This guide indicates which procedures are required for specific configuration scenarios. Skip procedures not necessary for the particular scenarios you want to configure.

In general, all the procedures necessary for a particular scenario are grouped as subtopics for that scenario, except where indicated. For example, in order to complete the procedure for topic 4.1, it is necessary to complete, not only 4.1, but also, 4.1.1, 4.1.2, etc.

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2 Introduction

To deliver a closed-process loop and provide additional value on top of the value derived by core SAP Sourcing functionality, you can integrate SAP Sourcing On–Premise 9.0 with the overall operational sourcing and source-to-contract scenarios in the backend SAP ERP system.

This guide assumes that you are integrating SAP Sourcing with SAP ERP before transactional data exists in SAP Sourcing. After transactional data exists in SAP Sourcing, additional effort is required to integrate SAP Sourcing with SAP ERP because of the need for subsequent analysis of transactional documents, possible subsequent adjustments of the master data that is used in those documents, and subsequent replication to SAP ERP.

Prerequisites

Mandatory Components

The following table shows the mandatory components for the standard integration scenarios.

Table 2: Mandatory Components for Standard Integration Scenarios

System	Release
SAP ERP	6.0*
SAP Sourcing OnPremise	Release 9
SAP NetWeaver Process Integration (SAP NetWeaver PI)	7.0 or 7.1 or higher

The table below lists SAP ERP releases and the minimum required support package that you must install before beginning the integration process. See SAP Notes 17387560 for additional information.

If you do not want to upgrade to the specified support package, you can implement the standard integration components using SAP Notes 1364669.

Table 3: SAP ERP Release and Support Package

SAP ERP Release	Minimum Support Package
SAP ERP 6.0	18 or higher
SAP ERP 6.0 enhancement package 2	8 or higher
SAP ERP 6.0 enhancement package 3	7 or higher
SAP ERP 6.0 enhancement package 4	9 or higher
SAP ERP 6.0 enhancement package 5	8 or higher

SAP ERP 6.0, SAP ERP 6.0 Enhancement Package 2, SAP ERP 6.0 Enhancement Package 3

If you do not want to upgrade to the specified support package, you can implement the standard integration components via SAP Notes 1364669 and 1458469.

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SAP ERP 6.0 Enhancement Package 4, SAP ERP 6.0 Enhancement Package 5

Integration of service line items requires SAP ERP 6.0 enhancement package 4 or higher. For other constraints, see SAP Note 1653944.

If you do not want to upgrade to the specified support package, you can implement the standard integration components via SAP Notes 1516322, 1509572, 1521005, and 1364357. For additional corrections, see SAP Notes 1537841, 1528894, 1526807, and 1548521.

Recommendation

SAP recommends upgrading to the specified support package for SAP ERP 6.0 enhancement package 4 or higher because many manual steps are required to implement the standard integration components via SAP Notes.

SAP recommends that you use the highest version of SAP NetWeaver Process Integration (PI). Currently this is SAP NetWeaver PI 7.3. For more information, see SAP Note 1515223 and SAP Note 1388258.

Note

Starting with SAP NetWeaver Process Integration (PI) 7.3, SAP provides a new installation option called Advanced Adapter Engine Extended (AEX). Because AEX is based on AS Java, it is easier to install, maintain, and requires less memory and data storage than a full installation of SAP NetWeaver PI.For more information about AEX, go to help.sap.com/nw73. In the *Application Help* section, the *English* link associated with *SAP Library*. When the library opens in a new browser, click *SAP NetWeaver Process Integration* (left-pane). Click *Installation and Connectivity Options* in the *Installation Options* section, then click the *Connectivity Options Using Advanced Adapter Engine Extended* link.

SAP Note 1573180 also provides additional information about AEX.

Required Experts

You must provide the following experts:

- SAP NetWeaver PI expert or consultant to carry out the required changes in SAP NetWeaver PI
- SAP ERP expert or consultant to carry out the required changes in SAP ERP
- IT network expert to establish and test network connectivity

Constraints

Price Conditions

In SAP Sourcing, price conditions are available for all integrated documents such as RFx, RFx Response, Master Agreement and Sub-agreement. You can create price conditions manually in SAP Sourcing or you can import them using the program `BBP_ES_CUSTOMIZINGDATA_EXTRACT` (SAP recommends that you extract them, and to not create them manually). This report extracts all conditions which use the condition classes "A Discount or Surcharge" and "B Prices", and calculation types "Fixed amount", "Percentage" and "Quantity".

Each document in SAP Sourcing requires exactly one condition of type "Prices" (similar like in SAP ERP PO or OA). There is no restriction on further conditions of type "Discount or Surcharge". From both an RFx Award and from a Master Agreement, it is possible to create a contract or schedule agreement in SAP ERP including all price conditions entered in SAP Sourcing. Auctions do not support price conditions. Therefore, from an RFx, only the gross price condition is visible in the auction. Additional price conditions are routed through into a Master Agreement as follow on a document:

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- Price conditions support scales (similar to tiered pricing): at the header level a value scale is supported, and at item level a quantity scale is supported.
- Header Conditions are considered as group conditions in SAP Sourcing and are not applied to individual line items. The value of a header condition applies to the total price.

RFx Award to Purchase Order in SAP ERP

SAP Sourcing supports the transfer of price conditions from an RFx Award to ERP Purchase Orders. For service items, regardless of whether the RFx Award contains additional price conditions, only the Gross Price Condition can be transferred. The price condition is created using the value of a scale according to the quantity.

RFx Award to SAP ERP Using a BOM

SAP Sourcing supports the use of a bill of material (BOM) within the RFx process. If a follow-on document in SAP ERP is created (SAP ERP PO or contract), only the material items of the BOM are transferred to SAP ERP, and not the BOM hierarchy note.

Support of Service Items

In addition to material items (either with or without a material master), SAP Sourcing supports free text service items throughout the business process and in all documents, including auction, RFx, RFx Response, Master Agreement, and Sub-agreement - for both for non-integrated and integrated documents. You can transfer a purchase requisition (through an SAP ERP RFQ) that has material and/or service items from SAP ERP to SAP Sourcing. Furthermore, you can create a PO or a contract that includes material and/or service items from an RFx Award. Creation of a PO or contract in SAP ERP that includes service items requires SAP ERP Enhancement Package 4 (or higher). Without service items, this functionality is supported as before from SAP ERP 6.0, with or without any enhancement package(s). Note that an SAP ERP schedule agreement does not support service items.

Support of multiple RFx templates

SAP Sourcing allows you to use different RFx templates in the inbound scenario of the creation SAP Sourcing RFx documents from SAP ERP RFQ documents. To use this functionality, it is required that you extend your SAP ERP system and map that custom field in SAP PI to the new field `TEMPLATE_EXTERNAL_ID`. The external ID also needs to be represented the in RFx template mapping in the Integrated Documents Configuration located in *SAP Sourcing* > *Setup* > *System Setup*.

Support of Synchronized Document IDs

SAP Sourcing OnDemand allows you to synchronize the document number of your master agreements with your SAP ERP outline agreements. To activate this, you define an external number range in SAP ERP that covers the same number range as your numbering table in SAP Sourcing, and assign it to the transaction types you are creating in SAP ERP. The SAP ERP system uses the number transferred from SAP Sourcing if it falls within into the external number range. As a contingency, create a new number from the internal number range.

Support of Line Item Specifications and Supplier Entered Attributes

You can include Line Item Specification and Supplier Entered Attributes into outbound XML messages from RFx Award to ERP Purchase Order and Contracts.

Free Text Item Description

Free text item description must be less than 40 characters for free text and not local items of ERP integrated document where "*Use external validation*" is checked in the document type. The check happens at publish for contracts and at phase change for RFx documents. You can implement custom logic to disable this check.

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Disable External Validations Individually

When *Use external validation* is selected in RFx or Master Agreement Document Types, the system executes a series of individual validation checks to make sure that the document can be successfully published to the backend. You can display some of these validations by using custom scripting

More Information

Troubleshooting [page 124]
Mapping of Fields Between SAP ERP and SAP Sourcing [page 128]
Extensions to Integration of SAP ERP and SAP Sourcing [page 184]

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3 Basic Configuration of Integrated Systems

3.1 Basic Configuration in SAP Sourcing

This chapter describes the SAP Sourcing configuration steps you must perform to ensure successful integration with SAP ERP.

3.1.1 Create System Property is_sapint_installed

The system property `is_sapint_installed` indicates whether integration with SAP ERP is enabled for this SAP Sourcing system.

Procedure

> **Note**
>
> An SAP Sourcing expert must perform this procedure.

1. Log on to SAP Sourcing with any user that has access to enterprise-level system properties.
2. Select *Setup*.
3. On the *System setup* tab, locate the Configuration section and click *System Properties*.
4. Select *New*.
5. Under *Set sapintegration*, create the property `is_sapint_installed` with the value *TRUE*.

   If the property already exists, but has the value *FALSE*, change the value to *TRUE*.

3.1.2 Define System Properties for SAP NetWeaver Process Integration Namespace

> **Note**
>
> An SAP Sourcing expert must perform this procedure.

In this step, you define the SAP NetWeaver Process Integration (SAP NetWeaver PI) namespace under which the integration content resides in SAP NetWeaver PI.

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Procedure

1. Log on to SAP Sourcing with any user that has access to enterprise-level system properties.
2. Choose *Setup*.
3. On the *System Setup* tab, find the *Configuration* section and click *System Properties*.
4. Choose *New*.
5. Create a system property as shown in the following table. Then, select a context and save your entries.

   Table 4

Field	Value
Set	sapintegration
Name	ExportHandler.outertag.attribute.name
Value	xmlns:ns0

6. Create another system property as shown in the following table. Then, select a context and save your entries.

   Table 5

Field	Value
Set	sapintegration
Name	ExportHandler.outertag.attribute.value
Value	http://sap.com/xi/ESourcing/SRMJS/OP

3.1.3 Verify System Property AgreementExportHandler.interface.export

The system property `AgreementExportHandler.interface.export` indicates the name of the Message Interface that is used in the Agreement integration scenario between SAP Sourcing and SAP ERP.

Procedure

> **Note**
>
> An SAP Sourcing expert must perform this procedure.

1. Log on to SAP Sourcing as *system* user.
2. Choose *Setup*.
3. On the *System* tab, choose *System Properties*.
4. Search for the following System property `AgreementExportHandler.interface.export` under *set sapintegration*.
5. If the system property does not yet exist, choose *New* to create the property with the following values:

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Table 6

Field	Value
Set	sapintegration
Name	AgreementExportHandler.interface.export
Value	MI_OB_Agreement

3.1.4 Edit Integrated System Configuration for SAP ERP Integration

> **Note**
> An SAP Sourcing expert must perform this procedure.

This object contains customer-specific settings for the integration of SAP ERP and SAP Sourcing.

Procedure

1. Log on to SAP Sourcing with any user that has access to this object.
2. Choose *Setup*.
3. On the *System Setup* tab, find the *Integration* section and click *Integrated System Configuration*.
4. Click the integrated system configuration object of system type ERP.
5. Choose *Edit*.
6. Maintain the integrated system configuration as required. Information is provided for certain fields in the following table. The values for the other fields depend on your integration scenario.

> **Note**
> The service name and namespace in the SAP Sourcing integration configuration object are case-sensitive. Make sure that the same case is used in both SAP NetWeaver Process Integration (SAP NetWeaver PI) and SAP Sourcing.

Table 7: Fields and Values for Integrated System Configuration

Field	Value
System Type	ERP
Import Error Type	E, A.
Import Success Type	S
Display Name	ERP Integrated System Configuration
Use FTP	
PI URL (not applicable to SAP NetWeaver PI 7.3) AEX	http://<PI_host>:<http_port>/sap/xi/adapter_plain?namespace=http://sap.com/xi/ESourcing/SRMJS/

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Field	Value
	OP&service=<name_of_SAP_Sourcing_business_system_configured_in_PI>& scheme=&QOS=BE&sap-user=<user_ID_to_connect_to_PI_server>&sap-client=<client_number_of_PI_system>&sap-language=<your_language>
PI URL (SAP NetWeaver PI 7.3 AEX only)	http://<PI Host>:Port/HttpAdapter/HttpMessageServlet? interfaceNamespace=http://sap.com/xi/ESourcing/SRMJS/OP& senderService=<name_of_SAP_Sourcing_business_system_configured_in_PI >& senderParty=& qos=BE
Use HTTP header authentication (SAP NetWeaver PI 7.3 AEX only)	Select this option.
PI User (HTTP header authentication on SAP NetWeaver PI 7.3 AEX only)	Specify the user name you use to connect to the SAP NetWeaver PI system.
PI Password	Enter the password you use to connect to the SAP NetWeaver PI system.

3.1.5 Define Default Language Preferences for Localized Resource Strings

Note

An SAP Sourcing expert must perform this procedure.

Each localized resource string has a default language value that is displayed if no specific language value is provided. Because SAP Sourcing is delivered in English, the default language in the standard system is English. If you want to use other languages, you can install language packs for those languages. If you install a language pack for another language, your custom localized resource strings may have default values in that language, rather than in English.

When integrating SAP Sourcing with SAP ERP, you can export certain localized fields from SAP ERP to SAP Sourcing. If one of these fields has localized resource strings for multiple languages, all of the localized resource strings are added to the object that is imported to SAP Sourcing, provided that the language packs for those languages have been installed. (SAP Sourcing accepts only localized resource strings for languages whose language packs have been installed.) In the standard system, SAP Sourcing requires each inbound localized resource string to have a value in the default language English. Because it is not always possible to guarantee that SAP ERP will provide a value in English for each localized resource string, you can use the integrated system configuration object in SAP Sourcing to define a ranking of default languages, and thus determine the default language. The integrated system configuration object is an enterprise-level configuration object with a series of settings for integration.

This functionality is available only for master data that is imported from SAP ERP; it is not available for standard CSV imports.

Example

In the integrated system configuration object, you define a ranking of French, Spanish, English. The import file from SAP ERP contains values in Spanish and English. The value in Spanish is therefore the default language value because a value in French was not provided.

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If language values are provided for language packs that are installed in SAP Sourcing, but the languages are not included in the ranking in the integrated system configuration object, the import will fail with an error indicating that a default language value was not provided.

Procedure

> **Note**
> Integrated System Configuration for SAP ERP Integration must already exist in SAP Sourcing before you can perform the following procedure.

1. Log on to SAP Sourcing with any user that has access to the integrated system configuration object.
2. Choose *Setup*.
3. On the *System Setup* tab, find the *Integration* section, click the *Integrated System Configuration* link, and then click *ERP Integrated System Configuration* to edit. Otherwise, click *New* to create an ERP Integrated System Configuration.
4. Add references to one or more language packs that are installed in your system. You do this by choosing *Add Language Pack*.
5. Rank the languages as required. You do this by choosing *Reorder List* and then dragging and dropping the languages to the required order of preference. If the list is empty, SAP Sourcing defaults to English.

3.1.6 Edit Integrated Document Configuration for SAP ERP Integration

> **Note**
> An SAP Sourcing expert must perform this procedure.

> **Note**
> If you have already imported the Enterprise Workbook, maintain it as described below.

The integrated document configuration (IDC) contains enterprise-scoped settings for the integration of SAP ERP and SAP Sourcing.

Edit the IDC object only if you have imported the IDC, and want to customize. If you have imported the enterprise workbook, you simply need to edit the IDC object as described below. If you have not imported this workbook, you must import the IDC object and maintain it as described below.

Procedure

1. Log on to SAP Sourcing as a user in the enterprise context with system administration rights.
2. Choose *Setup*.
3. On the *System Setup* tab, find the *Integration* section and click *Integrated Document Configuration*.

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4. Click the SAP ERP IDC object.
5. Choose *Edit*.
6. Maintain the SAP ERP IDC object as shown in the following table:

Table 8: Fields and Values for Integrated Document Configuration

Field	Value
External ID	idc
System Type	ERP
Display Name	ERP Integrated Document Configuration
Excluded/Included Attribute List ***	This is a list of zero or more exportable business objects and an excluded/included attribute list for each. You use it to control which fields are rendered in an export.
Field Length Validation List	This allows configuration of additional field length validation for the supplier publish scenario. For example, if a field is 10 characters in SAP Sourcing, but only 5 characters in SAP ERP, you can configure a validation for that here. Note that this is only valid for the *supplier* object.

*** To customize attributes that you want to export for each class, click *Class Name* in the *Excluded/Included Attribute List* table. If the class you want to customize is not in the list, click *Add* to add a class.

More Information

For information about including additional fields as integrated fields, or excluding fields, see SAP Library for SAP Sourcing on SAP Help Portal at help.sap.com/sourcing, and select your SAP Sourcing release. Under the section *Help for Purchasers*, select your preferred language and choose *Integration with SAP ERP* > *Setup for Integrated Documents* > *Managing Integrated Fields in SAP Sourcing.*

3.1.7 Create Business System for SAP ERP in SAP Sourcing

Prerequisites

The SAP ERP system must exist before you create it as a business system in SAP Sourcing. A business system represents an SAP ERP system that is integrated with SAP Sourcing.

Note

If you have already imported the Enterprise Workbook, maintain it as described below.

Note

An SAP Sourcing expert must perform this procedure in collaboration with your SAP ERP expert.

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Procedure

1. Find the logical system name of the SAP ERP system that you want to integrate with SAP Sourcing. You do this as follows:
   1. Log on to the SAP ERP system that you are integrating with SAP Sourcing.
   2. In Customizing for *IDoc Interface / Application Link Enabling (ALE)* (transaction `SALE`), choose *Basic Settings* > *Logical Systems* > *Assign Logical System to Client*.
   3. Select the client representing the integrated SAP ERP system and choose *Details*.
   4. Note down the value of the *Logical System* field. Generally, it is in the format <System ID>CLNT<Client Number>.

      > **Note**
      > Keep this value safe because you will need it in steps 2 and 3 below.

2. Define the business system in SAP Sourcing as follows:
   1. Log on to SAP Sourcing as a user with permission to create business systems.
   2. Choose *Setup*.
   3. On the *System Setup* tab, find the *Integration* section and click *Business Systems*.
   4. Choose *New*.
   5. Enter the required information as shown in the following table.

      Table 9

Field	Value
External ID	Enter the logical system name of the SAP ERP system. This is the value that you noted down in step 1.
Name	Select a language from the drop-down menu and enter a name for the system.
Description	Enter a brief description of the system.
System Type	Select ERP
Release	Specify the SAP ERP release and enhancement package that you want to integrate with SAP Sourcing. The default value is SAP ERP 6.0. It is particularly important to change this to your release and enhancement package if you want to integrate service line items in SAP Sourcing with SAP ERP.

   6. Save your entries.
3. Define a system property for the business system. This represents the SAP ERP system that is integrated with SAP Sourcing for business documents. You do this as follows:
   1. Log on to SAP Sourcing with any user that has access to enterprise-level system properties.
   2. Choose *Setup*.
   3. On the *System Setup* tab, find the *Configuration* section and click *System Properties*.
   4. Choose *New*.
   5. Create the system property as shown in the following table.

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Table 10

Field	Value
Set	odp.doc
Name	odp.doc.integration.external_system
Value	Enter the logical system name of the SAP ERP system. This is the value that you noted down in step 1.

6. Save your entries.

3.2 Basic Configuration in SAP ERP

3.2.1 Define Logical System for SAP Sourcing in SAP ERP

> **Note**
>
> An SAP ERP expert must perform this procedure.

This step creates a logical system to represent SAP Sourcing in the SAP ERP system.

> **Note**
>
> Logical systems are defined cross-client.

Procedure

1. In transaction `BD54`, choose *New Entries*.
2. Create a logical system that identifies the SAP Sourcing system, as shown in the following table:

Table 11: Fields and Values for Logical System

Field	Value	Example
Logical System	<Logical System Name>	SOURCING
Name	SAP Sourcing Logical System	

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3.2.2 Create Cross-System Company Codes and Business Areas

> **Note**
>
> An SAP ERP expert must perform this procedure.

To avoid errors in the distributed environment, you must name specific global organizational units the same in all systems involved in distribution. To use Application Link Enabling (ALE), you must assign local organizational units to the following global organizational units in each of these systems to ensure that they are used consistently in the distributed environment.

- Cross-system company codes
- Cross-system business areas

Cross-system company codes are used in distribution in financial accounting. There is one central system for each cross-system company code in the distributed environment. You must assign the local company codes to the cross-system company codes in each system involved in distribution.

When an IDoc with company code dependent data is sent, the company code is replaced with the cross-system company code in all company code fields. When the IDoc is received, the reverse conversion takes place in the target system.

Cross-system business areas are used in distribution in financial accounting. You must assign the local business areas to the cross-system business areas in each system involved in distribution.

When an IDoc with business area data is sent, the business area is replaced with the cross-system business area in all business area fields. When the IDoc is received, the reverse conversion takes place in the target system.

Procedure

Create Cross-System Company Codes

1. In transaction `SALE`, choose:
   - (SAP ERP 6.0 and above): *Modelling and Implementing Business Processes* > *Global Organizational Units* > *Cross-System Company Codes*
2. In the dialog box, select *Cross-System Company Codes* and click *Choose*.
3. Choose *New Entries*.
4. Enter the relevant global company codes and choose *Save*.
5. Choose *Back*.
6. Select *Assign Cross-System Company Code to Chart of Accounts* and click *Choose*.
7. Enter a chart of accounts for each global company code and choose *Save*.
8. Choose *Back*.
9. Select *Assign Company Code to Cross-System Company Code* and click *Choose*.
10. Enter a global company code for each organizational company code and choose *Save*.

> **Note**
>
> You can assign only one company code to each global company code.

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Create Cross-System Business Areas

1. In transaction `SALE`, choose:
   - (SAP ERP 6.0 and above): *Modelling and Implementing Business Processes* > *Global Organizational Units* > *Cross-System Business Areas*
2. In the dialog box, select *Cross-System Business Areas* and click *Choose*.
3. Choose *New Entries*.
4. Enter the relevant cross-system business areas and choose *Save*.
5. Choose *Back*.
6. Select *Assign Business Area to Cross-System Business Area* and click *Choose*.
7. Enter a cross-system business area for each organizational business area and choose *Save*.

> **Note**
> You can assign only one business area to each cross-system business area.

3.2.3 Create a Pseudo Vendor

Procedure

> **Note**
> An SAP ERP expert must perform this procedure.

1. In transaction `MK01`, create a pseudo vendor. This vendor is used to transfer RFQ data to SAP Sourcing. When creating this vendor, you must pick an account group that allows an external number range (which can be alphanumeric). In Customizing for Financial Accounting (transaction SPRO) *Accounts Receivable and Accounts Payable* > *Vendor Accounts* > *Master Data* > *Preparations for Creating Vendor Master Data* > *Assign Number Ranges to Vendor Account Groups*, you can check whether the account group allows an external number range.
2. In Customizing for *Integration with Other mySAP.com Components* > *E-Sourcing* > *Settings for E-Sourcing Integration*, enter the vendor from Step 1 in the *Vendor Ext. System field*. You can use any existing vendor in the system. However, SAP recommends creating a new vendor for exactly this purpose.

3.3 Basic Configuration in SAP NetWeaver Process Integration

> **Note**
> If you are using the SAP NetWeaver PI 7.3 Advanced Adapter Engine Extended (AEX) installation option, follow the instructions in this guide and note the sections/tasks that you can skip. Because SAP NetWeaver PI 7.3 Advanced Adapter Engine Extended (AEX) does not support configurations using “Integration Scenarios, you

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must manually create communication channels and integrated configuration scenarios. See Configuring AEX Communication Channels and Integrated Configurat [page 185]for the setup instructions.

Also, if you are using the SAP NetWeaver PI 7.3 Advanced Adapter Engine Extended (AEX) installation option, you cannot use IDoc (IE) or HTTP (IE) adapter types in communication channels. Instead you must use IDoc (AAE) and HTTP (AAE) adapter types. For more information, go to help.sap.com/nw73. In the *Application Help* section, choose the *English* link associated with SAP Library. When the library opens in a new browser, choose *SAP NetWeaver Process Integration* (left pane). In the *Installation Options* section, choose *Installation and Connectivity Options*, then choose the *Connectivity Options Using Advanced Adapter Engine Extended* link.

SAP Note 1573180 provides additional information about AEX.

3.3.1 Set Up System Landscape Directory

Procedure

> **Note**
>
> An SAP NetWeaver Process Integration (PI) expert or consultant must perform this procedure.

1. In the process integration tools (transaction `SXMB_IFR`), log on to the System Landscape Directory (SLD).
2. Import the Component Repository (CR) content into the SLD. For instructions, see SAP Note 669669.
3. Create a new Web Application Server (Web AS) ABAP technical system to register the SAP ERP system in the SLD. For instructions, see SAP Note 584654.
4. Create a new Web AS Java technical system to register the SAP Sourcing system in the SLD. For more information, see the following:
   - Click *Help* and navigate to *Working with SLD* > *Technical Systems* > *Creating New Web AS Java Technical Systems*.
   - SAP Note 673144
5. Create a business system for the SAP ERP system as shown in the following table:

Table 12

Field	Value	Example
Business System	Enter the business system for the SAP ERP system	QV5_340
Role	Application System	
Related Integration Server	SAP NetWeaver Process Integration (SAP NetWeaver PI) system that is defined in the SLD	INTEGRATION_SERVER_X7X
Technical System	Technical system that you defined in step 3	
Client	Client of the SAP ERP system	
Logical System Name	Logical system of the SAP ERP system <SID>CLNT<Client Number>	QV5CLNT340

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6. Create a business system for the SAP Sourcing system as shown in the following table:

Table 13

Field	Value	Example
Business System	Enter the business system for the SAP Sourcing system	SOURCING **Note** This is the value you enter for the <name_of_SAP_Sourcing_business_system_configured in_PI> part of the PI URL described in Edit Integrated System Configuration for SAP SRM Integration [page 0].
Role	Application System	
Related Integration Server	SAP NetWeaver PI system that is defined in the SLD	INTEGRATION_SERVER_X7X
Technical System	Technical system that you defined in step 5	
Logical System Name	Logical system of the SAP Sourcing system as defined in Define Logical System [page 19]	SOURCING

7. To retrieve the newly created business system, clear the SLD data cache by logging on to the Integration Directory (SAP NetWeaver PI 7.0x) or Integration Builder (SAP NetWeaver PI 7.1 or higher) and choosing *Environment* > *Clear SLD Data Cache*.

3.3.2 Define RFC Destination and Port

Procedure

Note

An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

Note

Skip this section if you are using SAP NetWeaver PI AEX 7.3.

1. In the SAP NetWeaver PI system, specify the RFC destination using transaction `SM59`, as listed in the following table:

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Table 14: Parameters and Values for RFC Destination

Field	Value	Example
RFC Destination	<SID of SAP ERP system>CLNT<client number of SAP ERP system>	QV5CLNT340
Connection Type	3 (For connection to ABAP systems)	
Target Host	Host name of SAP ERP system	
System Number	System number of SAP ERP system	
Language	Details to connect to SAP ERP system	
Client	Details to connect to SAP ERP system	
User	Details to connect to SAP ERP system	
Password	Details to connect to SAP ERP system	

2. In the SAP NetWeaver PI system, define the port for SAP NetWeaver PI to receive the SAP ERP IDocs. You do this using transaction `IDX1`, as shown in the following table:

Table 15: Parameters and Values for Port

Field	Value	Example
Port	SAP<SID of SAP ERP system>	SAPQV5
Client	Client of SAP ERP system	340
Description	RFC Destination Pointing to SAP ERP System	
RFC Destination	RFC destination that you created in step 1	QV5CLNT340

3.3.3 Import Process Integration Content to Integration Repository

Procedure

> **Note**
>
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

1. In the process integration tools (transaction `SXMB_IFR`), log on to the Integration Repository (SAP NetWeaver PI 7.0x) or Enterprise Services Builder (SAP NetWeaver PI 7.1 or higher).
2. Download the SAP ERP interface definitions from SAP Service Marketplace at service.sap.com/swdc ▶ *SAP Software Download Center* ▶ *SAP Software Download Center* ▶ *Support Packages and Patches* ▶ *Browse Our Download Catalog* ▶ *SAP Content* ▶ *ESR Content (XI Content)* ▶ *XI CONTENT SAP_APPL* ▶ *XI CONTENT SAP_APPL 604* ▶.

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3. Download the SAP Sourcing interface definitions and mapping objects from SAP Service Marketplace at service.sap.com/swdc *SAP Software Download Center* ▶ *Support Packages and Patches* > *Browse our Download Catalog* > *SAP Content* > *ESR Content (XI Content)* > *XI CONTENT ESC SRMJSERVEROP* > *XI CONTENT ESC SRMJSRV OP 9.0* ▼.

   > **Note**
   >
   > The SAP Sourcing interface definitions and mapping objects are also available at service.sap.com/swdc *SAP Software Download Center* ▶ *Support Packages and Patches* > *Browse our Download Catalog* > *SAP Application Components* > *SAP SOURCING / CLM* > *SAP SOURCING 9.0 / CLM 9.0* > *Comprised Software Component Versions* > *XI CONTENT ESC SRMJSRV OP 9.0* ▼.

4. If you are using SAP NetWeaver PI 7.1 or higher, download the latest support package of XI CONTENT SAP_BASIS 7.00, 7.01, or 7.02 from SAP Service Marketplace at service.sap.com/swdc ▶ *SAP Software Download Center* > *Support Packages and Patches* > *Browse Our Download Catalog* > *SAP Content* > *ESR Content (XI Content)* > *XI CONTENT SAP_BASIS* > *XI CONTENT SAP_BASIS 7.xx* ▼.
5. Import the downloaded content by choosing ▶ *Tools* > *Import Design Objects* ▼.

3.3.4 Configure Integration Scenario

This section describes how to create an integration scenario that includes only basic configurations. Additional configurations specific to each scenario are located in other sections of this guide.

Prerequisites

- Basic Configuration in SAP NetWeaver Process Integration [page 21]

Procedure

> **Note**
>
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

> **Note**
>
> Skip this section if you are using **SAP NetWeaver PI 7.3 AEX**. You must manually create the integrated configuration scenarios. See Configure Integrated Scenarios for SAP NetWeaver PI 7.3 AEX [page 27] for instructions about basic configuration of Integration Scenarios for SAP NetWeaver PI 7.3 AEX.

In the following procedure, there are some differences between SAP NetWeaver PI 7.0x and SAP NetWeaver PI 7.1 or higher. These differences are indicated by *SAP NetWeaver PI 7.0x* or *SAP NetWeaver PI 7.1 or higher*.

1. In the process integration tools (transaction `SXMB_IFR`), log on to the Integration Directory (SAP NetWeaver PI 7.0x) or Integration Builder (SAP NetWeaver PI 7.1 or higher).
2. **SAP NetWeaver PI 7.0x**: Choose ▶ *Tools* > *Transfer Integration Scenario from Integration Repository* ▼.

   SAP NetWeaver PI 7.1 or higher: Choose ▶ *Tools* > *Apply Model from ES Repository* ▼.

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3. **SAP NetWeaver PI 7.0x**: In the dialog box that appears, click the input help for the *Name* field, choose the integration scenario for this software component (see note below), and choose *Continue*.

   SAP NetWeaver PI 7.1 or higher: In the dialog box that appears, select *Process Integration Scenario*, click the input help for the *Name* field, choose the integration scenario for this software component (see note below), and choose *Continue*.

   > **Note**
   >
   > The software component is *E-SOURCING SRM JSERVER OP <Release>* and the name is *IS_ERP_ES_INTEGRATION*.

4. If required, change the configuration scenario name and choose *Finish*, and then choose *Close*.

   The configurator screen appears.

5. **SAP NetWeaver PI 7.0x**: In the component view, right-click *SAP ERP ENHANCE PACKAGE – 6.0* and choose *Assign Service*.

   SAP NetWeaver PI 7.1 or higher: In the component view, click *SAP ERP ENHANCE PACKAGE – 6.0*.

6. **SAP NetWeaver PI 7.0x**: Click the create icon with the tooltip *Create Services for Business Systems*.

   SAP NetWeaver PI 7.1 or higher: Click the create icon with the tooltip *Create Business System Components for Business Systems*.

7. In the wizard that appears, proceed as follows:
   1. In step 1 of the wizard, choose *Continue*.
   2. In step 2 of the wizard, choose *Continue*.
   3. In step 3 of the wizard, select the respective business system for ERP 6.0 that is previously defined in the system landscape directory.

      > **Note**
      >
      > If the business system for ERP 6.0 is not available in the list of business systems, the business system already exists as a business component. In this case, do the following.
      >
      > 1. Exit the wizard by clicking *Cancel*.
      > 2. In the model configurator, click the input help for the *Communication Component* field.
      > 3. Under *Search Criteria*, ensure that the *Communication Component Selection* attribute has the value *All Business System Components*.
      > 4. Select the communication component for the business system for ERP 6.0 and choose *Apply*.
      > 5. Skip steps 4 and 5 below.

   4. Deselect the *Create Communication Channels Automatically* checkbox.
   5. Choose *Finish* and then choose *Close*.

8. **SAP NetWeaver PI 7.0x only**: In the *Assign Services to Application Components* dialog box, choose *Assign*.
9. Repeat steps 5 to 8 for *E-SOURCING / CLM 900* using the business system for SAP ERP that you previously created in Set Up System Landscape Directory. [page 22].
10. **SAP NetWeaver PI 7.0x**:Select *Settings* > *Apply Changes And Save Configuration Scenario.* .

    SAP NetWeaver PI 7.1 or higher: Click *Apply*, and then click *Save*.

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3.3.5 Basic Configuration of SAP NetWeaver PI 7.3 AEX

Procedure

This section describes how to create an integration scenario that only includes basic configurations. Additional configurations specific to each scenario are located in other sections of this guide.

1. In the process integration tools (transaction `SXMB_IFR`), log into the **SAP Net Weaver PI 7.3 AEX** Integration Builder.
2. Import the respective business systems for SAP ERP and SAP Sourcing into the Integration Builder.
3. Create a configuration scenario and click Save.
4. See Configuring AEX Communication Channels and Integrated Configurat [page 185]and create a Communication Channel and Integrated Configuration for each integration scenario.

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4 Master Data Integration

4.1 Integration of SAP ERP Customizing Data

You extract customizing data from SAP ERP, and import it into SAP Sourcing before replicating material or vendor master data from SAP ERP to SAP Sourcing. SAP Sourcing provides SAP ERP reports for extracting data in XML and CSV formats. You import extracted files from these reports directly into SAP Sourcing. This chapter describes the process for extracting customizing data from SAP ERP to SAP Sourcing.

4.1.1 Extract Customizing Data from SAP ERP in CSV Format

Procedure

> **Note**
> An SAP ERP expert must perform this procedure.

To ensure that you can import the unit of measure from the SAP ERP system into SAP Sourcing, extract Unit Category Texts and Unit Categories from your SAP ERP system. The format of the CSV data is specific to the needs of the SAP Sourcing application. You can store the CSV files on an application server or locally. SAP Sourcing unit of measure requires both these objects for the import, and both must only be imported in the same language. Even though it is possible to extract further data, such as the unit of measure and related ISO codes, from the CSV report, SAP recommends not using the CSV report for those purposes. Rather, for those purposes, use the report BBP_ES_CUSTOMIZINGDATA_EXTRACT which generates an XML file.

- Unit Category Text (available only as CSV files, one file for each language)
- Unit Category (available only as CSV files, one file for each language)

Extract the data using the program BBP_ES_CUSTOMIZINGDATA_EXT_CSV. The extracted data is rendered as a csv document. The format of the csv data is specific to the needs of the SAP Sourcing application. You can store the csv files on an application server or locally. To extract the above data in multiple languages the data needs to be extracted in multiple files, one for each language. For more information about SAP ERP, see Help for SAP ERP.

1. In transaction SE38, enter the name of the report BBP_ES_CUSTOMIZINGDATA_EXT_CSV and select F8. In the report selection screen choose the language in which you want to extract the data.
2. Specify whether you want the generated CSV files to be saved on the application server or locally. The objective is to get the files to a location where the importer from the SAP Sourcing application can access them.

   As a guideline:

   - If you want to schedule the program as a background job, always save the generated csv files on the application server.
   - If you want to execute the program online, you can save the files on the application server or locally.
3. Select the *Customizing* objects that you want to extract, and check the file names.

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4. Choose *Execute* or schedule the program for execution periodically as needed.
5. Verify that the files are saved in the location that you specified. If you selected *Save on Application Server* in step 2, you can use transaction AL11 to check the application server directory.

4.1.2 Extract Customizing Data from SAP ERP in XML Format

> **Note**
>
> An SAP ERP expert must perform this procedure.

Extract the following customizing data from SAP ERP:

> **Note**
>
> If you have already extracted data for Currency ISO Codes, Currencies, UOM ISO Codes, and Unit of Measure in CSV format, as described in Extract Customizing Data from SAP ERP in CSV Format [page 28], you do not need to extract these data in XML format.
>
> Make sure that Unit Category Text and Unit Category already are imported. Otherwise, the import of the unit of measure might fail.

- Currency ISO codes
- Currencies
- UOM ISO codes
- Unit of measure
- Company codes
- Purchasing organizations
- Regions
- Plants
- Purchasing groups
- Material groups
- Payment terms
- Condition types (price conditions), specifically all condition types of condition classes *A* (discount or surcharge) and *B* (prices)
- Incoterms
- Vendor account groups

You extract the Customizing data from SAP ERP using the program `BBP_ES_CUSTOMIZINGDATA_EXTRACT` (transaction `BBP_ES_CUST_DOWNLOAD`). The extracted data is rendered as an XML document. The format of the XML data is specific to the needs of the SAP Sourcing application. You can store the XML files on an application server, or locally. For more information about this program, see the program documentation in SAP ERP.

Various Business Add-In (BAdI) exits are provided to enhance the standard functionality.

You can use BAdI `BADI_BBP_ES_ADDITIONAL_DATA` to enhance or extend the Customizing data during the extraction process.

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You can use BAdI `BADI_BBP_ES_DOWNLOAD_XML` to define other locations for saving the XML files.

You can use BAdI `BADI_BBP_ES_REMOVE_DATA` to exclude fields from the XML files.

> **Note**
>
> If BAdI `BADI_BBP_ES_REMOVE_DATA` is not visible in Customizing for *Integration with Other mySAP.com Components* ▶ *E-Sourcing* ▶ *Business Add-Ins (BAdIs)* ▶, see SAP Note 1458469.

You can use `BADI_BBP_ES_CHANGE_DATA` to modify fields in the XML files.

> **Note**
>
> If BAdI `BADI_BBP_ES_CHANGE_DATA` is not visible in Customizing for *Integration with Other mySAP.com Components* ▶ *E-Sourcing* ▶ *Business Add-Ins (BAdIs)* ▶, see SAP Note 1458469.

Procedure

1. Run the transaction `BBP_ES_CUST_DOWNLOAD`, and enter the languages in which you want to extract the data (for Customizing objects that support multiple languages).
2. Select *Report Version 2*, and execute.
3. Specify whether you want the generated XML files to be saved on the application server or locally. The objective is to get the files to a location where the importer from the SAP Sourcing application can access them.

   As a guideline:

   - If you want to schedule the program as a background job, always save the generated XML files on the application server. (You can implement a BAdI if you want to store the files in a different location that is accessible to the application server.)
   - If you want to execute the program online, you can save the files on the application server or locally.
4. Select the Customizing objects that you want to extract, and check the file names.
5. Choose *Execute* or schedule the program for execution periodically as needed.
6. Verify that the files are saved in the location that you specified. If you selected *Save on Application Server* in step 2, you can use transaction `AL11` to check the application server directory.

More Information

Troubleshooting [page 124]

Mapping of Customizing Data from SAP ERP to SAP Sourcing [page 128]

SAP Library for SAP ERP on SAP Help Portal at help.sap.com ▶ *SAP ERP Central Component* ▶ *Logistics* ▶ *Materials Management (MM)* ▶ *Purchasing (MM-PUR)* ▶ *Conditions and Price Determination (MM-PUR-VM)* ▶

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4.1.3 Carry Out Initial Load of Customizing Data in SAP Sourcing

Prerequisites

- If you have not imported the SAP ERP data as part of the SAP Sourcing installation as described in Extract Customizing Data from SAP ERP in CSV Format [page 28], you must extract Unit Category Text and Unit Category in CSV format, and import them into SAP Sourcing before you import Unit of Measure.

> **Note**
> An SAP Sourcing expert must perform this procedure.

You must import the following master data to SAP Sourcing in the order given below:

- Currency ISO Codes
- Currencies
- Unit Category Text
- Unit Category
- UOM ISO Codes
- Unit of Measure
- Company codes
- Purchasing organizations
- Regions
- Plants
- Purchasing groups
- Material groups
- Payment terms
- Condition types (price conditions), specifically all condition types of condition classes *A* (discount or surcharge) and *B* (prices)
- Incoterms
- Vendor Account Groups

> **Recommendation**
> SAP recommends extracting these data from SAP ERP, and importing them into SAP Sourcing, as described below. It is possible to create certain master data in SAP Sourcing manually, but this could cause an unstable integration, and should be avoided.

The initial load of Customizing data to SAP Sourcing can be manual process in which you upload the XML files that you generated in Extract Customizing Data from SAP ERP [page 29], but the SAP ERP report as well allows to save the generated XML files on the server from where it could get imported automatically (requiring further configuration like setting up that data from certain folders gets imported automatically).

If a field is optional in SAP Sourcing, and if an invalid value is exported from SAP ERP, the field will be left blank in SAP Sourcing, and a warning message will be issued. The import will otherwise continue successfully.

> **Example**
> If the value of the company code to which a plant is assigned is invalid in SAP Sourcing, you must export the correct company code and then the plant in SAP Sourcing. If you import a plant before the company code to

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which the plant is assigned, the plant will be created in SAP Sourcing, but a warning message will be issued that the company code was not found. The import will otherwise continue successfully.

When a contract or an RFx award should be published to an SAP ERP system there is a check that each used unit of measure (UOM) and the currency has an ISO Code; thus, when creating or importing a new currency or UOM first the ISO codes should be imported. Always import the ISO Codes first and afterwards import the UOM and/or currency file itself.

Each vendor in SAP ERP is assigned to a vendor account group, and also could have a region assigned. First, import the account groups and SAP ERP regions; otherwise, the import of suppliers could fail. A vendor record in SAP ERP also could have a payment term and/or Incoterm. Similarly for a material that contains information about plants, the plant itself has a relationship to a company code and purchasing organization. Furthermore, a plant can have a region assigned and thus the regions must be imported first.

Recommendation

SAP recommends first importing simple master data like payment terms, SAP ERP regions or Incoterms, but even a region contains a country which should be imported into SAP Sourcing via the standard workbook import, otherwise you would first need to create the country. Next you can import the ISO codes followed by currency and UOM. Afterwards, import company codes, plants, purchasing organizations and groups.

Note

After importing units from SAP ERP, Choose *Setup* and find all units with the category *No Dimension*. Make sure that at least one of the units is set as *Primary*. This prevents error messages about unit category "No Dimension" from occurring. See Troubleshooting [page 124] for more information.

Procedure

1. Log on to SAP Sourcing as a user that is scoped to the enterprise context, and has the right to import data.

   Note

   Most often, the Customizing data is wanted at enterprise level. This requires you to log on to SAP Sourcing as a user that is scoped to the enterprise company. If any of the objects are company-scoped, and you import them as a company-level user, only that company will see the Customizing data. Whether this is desired depends on how you segregate your data.

2. Choose *Setup*.
3. On the *System Administration* tab, find the *Import and Export Tools* section and click *Import Data*.
4. Choose *New* and follow the instructions in the setup wizard.

   Note

   When importing CSV files, select the SAP ERP object type in the wizard. For example:
   - for Unit Category Texts, select object type *localized resource*.
   - for Unit Category, select object type *value list value*.

Recommendation

For each pricing condition, we recommend entering a description in SAP Sourcing. This description can be longer than the name that is extracted from SAP ERP. For example, you can use the description to explain to

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your suppliers how the pricing condition is used in the RFx process. For more information, see Create Pricing Conditions in SAP Sourcing [page 83] (there is no equivalent description field in SAP ERP, so a description cannot be extracted from SAP ERP).

More Information

SAP Library for SAP ERP on SAP Help Portal at help.sap.com ▶ *SAP Business Suite* › *SAP ERP* › *SAP ERP Central Component* ↴.

4.2 Material Master Data Integration from SAP ERP to SAP Sourcing

> **Note**
> This procedure must be performed by an SAP ERP expert, consultant, or key user.

After you have replicated customizing data to SAP Sourcing, you can transfer material master data from SAP ERP to SAP Sourcing.

There are two different ways to populate your SAP Sourcing or SAP CLM system with material data:

- Extract material data by using the `BBP_ES_MASTERDATA_EXTRACT` report without using SAP NetWeaver PI. The `BBP_ES_MASTERDATA_EXTRACT` report allows you to select one or more languages, and specify the location for storing the generated XML file. It also provides filter criteria such as material number, material type, and material group which allows you to extract only certain materials.
- Use Application Link Enabling (ALE) distribution, change pointers, and SAP NetWeaver Process Integration SAP NetWeaver PI configuration.

To maximize performance, you can specify the number of material records for every XML file. The default number is 10000. Adjust this value to accommodate your set of material data (for example, materials having one or many associated plants) and hardware. This report is designed for an initial load of materials into SAP Sourcing or SAP CLM. To transfer delta changes, setup SAP NetWeaver PI and iDOC to use the change pointer.

4.2.1 Initial Load of Materials Using Extraction Report

> **Note**
> An SAP ERP expert must perform this procedure.

> **Note**
> Use this simple method for an initial upload of materials data from SAP ERP to SAP Sourcing, when you do not anticipate uploading changes to the data later. In this method, you first run an extraction report, and then manually import the extracted files into SAP Sourcing.

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To extract material data from SAP ERP, run the report `BBP_ES_MASTERDATA_EXTRACT`. This report extracts material data into one or more XML documents in a format required by SAP Sourcing. You can store the XML file on an application server or locally.

Prerequisites

Business Add-In (BAdI) exits are provided to enhance the standard functionality.

- Use `BAdI BADI_BBP_ES_ADDITIONAL_DATA` to enhance or extend the material data during the extraction process.
- Use `BAdI BADI_BBP_ES_DOWNLOAD_XML` to define other locations for saving the XML files.
- Use `BAdI BADI_BBP_ES_REMOVE_DATA` to exclude fields from the XML document. `BAdI BADI_BBP_ES_REMOVE_DATA` has example class `BBP_ES_CL_REMOVE_DATA`.

> **Note**
>
> - If `BAdI BADI_BBP_ES_REMOVE_DATA` is not visible in *Customizing for Integration with Other mySAP.com Components* > *E-Sourcing* > *Business Add-Ins (BAdIs)*, see SAP Note 1458469.
> - Use `BAdI BBP_ES_CHANGE_DATA` to modify fields in the XML files.
> - `BAdI BADI_BBP_ES_CHANGE_DATA` has an example implementation `CL_EXM_IM_BADI_BBP_ES_CHG_DATA`.

> **Note**
>
> If `BAdI BADI_BBP_ES_CHANGE_DATA` is not visible in *Customizing for Integration with Other mySAP.com Components* > *E-Sourcing* > *Business Add-Ins (BAdIs)*, see SAP Note 1458469.

Procedure

1. In transaction `BBP_ES_MAST_DOWNLOAD`, enter the languages in which you want to extract the Material data.
2. Select Report Version 2 and *Execute*.
3. Specify whether you want the generated XML files to be saved on the application server or locally. The objective is to get the files to a location where the importer from the SAP Sourcing application can access them.

   > **Recommendation**
   >
   > - To schedule the program as a background job, always save the generated XML files on the application server. You can implement a BAdI if you want to store the files in a different location that is accessible to the application server.
   > - To execute the program online, save the files on the application server or locally.

4. Select *Material* as the master data object that you want to extract.
5. To select the materials, enter the input values for the different selection options:
   - Material
   - Material Type

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- Material Group for selecting the materials

6. Check the file name.
7. Enter the number of materials to be extracted in a single xml file. By default 10,000 materials are extracted into one file.
8. Choose *Execute*, or schedule the program for execution periodically as needed.
9. Verify that the files are saved in the location that you specified. If you selected *Save on Application Server* above, use transaction `AL11` to check the application server directory.

Import the Extracted Materials into SAP Sourcing

1. Log on to SAP Sourcing as a user that is scoped to the enterprise context and has the right to import data.

   > **Note**
   > Most often, the Customizing data is wanted at enterprise level. This requires you to log on to SAP Sourcing as a user that is scoped to the enterprise company. If any of the objects are company-scoped, and you import them as a company-level user, only that company will see the Customizing data. Whether this is desired depends on how you segregate your data.

2. Choose *Setup*.
3. On the *System Administration* tab, find the *Import and Export Tools* section and choose *Import Data*.
4. Choose *New*, and follow the wizard.

More Information

- Mapping of Material Master Data from SAP ERP to SAP Sourcing [page 137]

4.2.2 Initial Load and Ongoing Transfer of Materials Delta Using IDoc

> **Note**
> Use this method if you want to both upload materials data initially, and also to continue to upload changes in materials data to SAP Sourcing as they are made in SAP ERP. You must replicate Customizing data and then material master data from SAP ERP to SAP Sourcing.

You replicate material master data using Application Link Enabling (ALE) distribution, change pointers, and SAP NetWeaver Process Integration (SAP NetWeaver PI) configuration. This is described in detail later in this chapter. For an overview of the process, see below.

Material Master Data from SAP ERP to SAP Sourcing Using Idoc

In the following figure, a material is sent from SAP ERP, triggering the creation of a material in SAP Sourcing. The transfer of files from SAP NetWeaver PI to SAP Sourcing can be achieved either by FTP server or by creating a shared directory on the SAP NetWeaver PI server.

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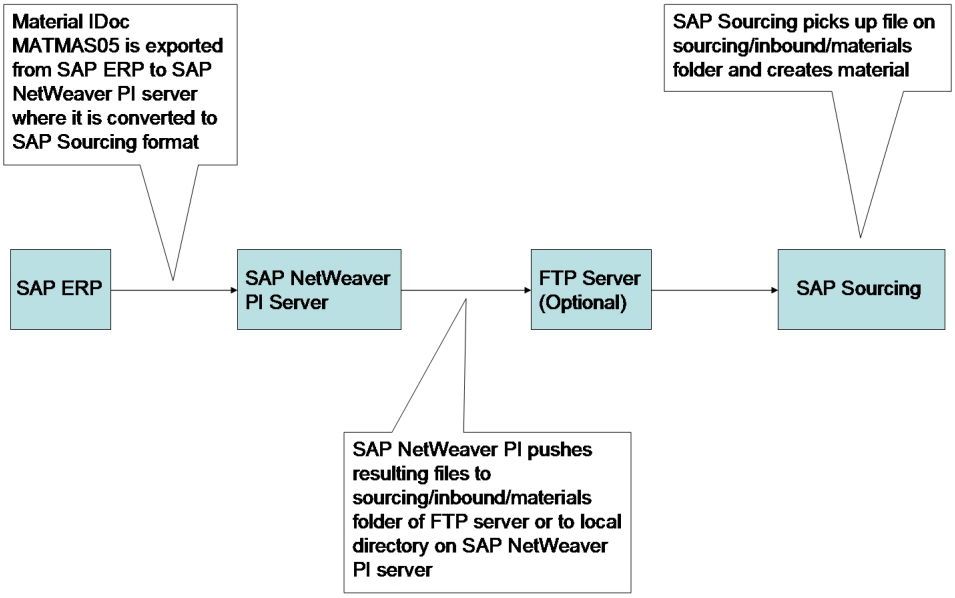

Figure 1: Integration Architecture for Material Master Data

See also Mapping of Material Master Data from SAP ERP to SAP Sourcing [page 137].

4.2.2.1 Maintain RFC Destination for Material Transfer

> **Note**
> An SAP ERP expert must perform this procedure.

Maintain the RFC destination in order to define the target system of the master data IDocs.

> **Recommendation**
> To improve throughput of master data IDocs, we recommend bundling IDocs into a single XML file for SAP NetWeaver Process Integration (SAP NetWeaver PI) using the XML HTTP port type on the outbound side and the plain HTTP adapter on the inbound side. By choosing the XML HTTP port type, IDocs are sent using HTTP in one XML message containing multiple IDocs. With the XML file port type, the ALE layer creates the IDocs directly in one single file in their XML representation.

Prerequisites

- Define Logical System for SAP Sourcing in SAP ERP [page 19]

Procedure

1. In transaction `SM59`, select *HTTP Connections to ABAP System* and choose *Create*. If you are using **SAP NetWeaver PI 7.3 AEX**, select *HTTP Connection to External Server* and choose *Create*.

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2. Create an entry for material, as shown in the following tables:

Table 16: Fields and Values for Material

Field	Value	Example
RFC Destination	<SID of SAP NetWeaver PI><Client Number of SAP NetWeaver PI>_HTTPPLAIN_<Message Type>	X7X001_HTTPPLAIN_MATMAS
Connection Type	H	
Description	HTTP Connection to SAP NetWeaver PI System for Material Load	
Target Host	<SAP NetWeaver PI Server>	uscix7x.sap.com
Service No.	HTTP Service Port of SAP NetWeaver PI Server	50050
Path Prefix	/sap/xi/adapter_plain/?namespace=urn:sap-com:document:sap:idoc:messages&interface=MATMAS.MATMAS05&service=<Sender System>&qos=EO (or EOIO)	/sap/xi/adapter_plain/?namespace=urn:sap-com:document:sap:idoc:messages&interface=MATMAS.MATMAS05&service=QV5_340&qos=EO
Language	Details to connect to SAP NetWeaver PI system	
Client	Details to connect to SAP NetWeaver PI system	
User	Details to connect to SAP NetWeaver PI system	
Password	Details to connect to SAP NetWeaver PI system	

Table 17: Fields and Values for Material (for SAP NetWeaver PI 7.3 AEX)

Field	Value	Example
RFC Destination	<SID of SAP NetWeaver PI><Client Number of SAP NetWeaver PI>_HTTPPLAIN_<Message Type>	E7W_HTTPPLAIN_MAT380
Connection Type	G	
Description	HTTP Connection to SAP NetWeaver PI System for Material Load	
Target Host	<SAP NetWeaver PI Server>	nvpal723.sap.com
Service No.	HTTP Service Port of SAP NetWeaver PI Server	50000
Path Prefix	/sap/xi/adapter_plain/?namespace=urn:sap-com:document:sap:idoc:messages&interface=MATMAS.MATMAS05&service=<Sender System>&qos=EO	/HttpAdapter/HttpMessageServlet?interfaceNamespace=urn:sap-com:document:sap:idoc:messages&interface=MATMAS.MATMAS05&senderService=QV6_380& qos=EO
Logon with User	Select *Basic Authentication*.	
User	Details to connect to SAP NetWeaver PI system	
Password	Details to connect to SAP NetWeaver PI system	

3. Ensure the status of the connection by choosing *Connection Test*.

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If the connection is successful, the RFC connection test screen appears, indicating the connection type and other connection data.

4.2.2.2 Maintain Port Definition for Material Transfer

Procedure

> **Note**
>
> An ERP expert must perform this procedure.

1. In transaction `WE21`, select *XML HTTP* and choose *Create*.
2. Create an entry for material, as shown in the following table:

> **Note**
>
> If you are using **SAP NetWeaver PI 7.3 AEX**, use the RFC destination you created for **SAP NetWeaver PI 7.3 AEX** in Maintain RFC Destination for Material Transfer [page 36].

Table 18: Fields and Values for Material

Field	Value	Example
Port	<SID of SAP NetWeaver PI System>_<Message Type>	X7X_MATMAS
Description	XML HTTP Port to <SID of SAP NetWeaver PI System> Client <SAP NetWeaver PI Client> for <Message Type>	XML HTTP Port to X7X Client 001 for MATMAS
RFC Destination	RFC destination that you created in Maintain RFC Destination [page 36]	X7X001_HTTPPLAIN_MATMAS
Content Type	Text/XML	

4.2.2.3 Maintain Partner Profile for Materials Transfer

Procedure

> **Note**
>
> An SAP ERP expert must perform this procedure.

1. In transaction `WE20`, select *Partner Type LS* and select *Create*.

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Table 19: Fields and Values for Partner Profile

Field	Value	Example
Partner Number	<Partner Number of SAP Sourcing Logical System>	SOURCING
Partner Type	LS	
Type	O or US	
Agent	Enter the job (person or group of persons) to be notified in case of error	50010120
Language	EN	

2. Specify outbound parameters, as listed in the table below:

Table 20: Outbound Parameters for Message Type MATMAS

Field	Value	Example
Message Type	MATMAS	
Receiver Port	Choose the XML HTTP port that you created in Maintain Port Definition for Material Transfer [page 38]	X7X_MATMAS
Output Mode	For better performance throughput in the initial upload of materials, select *Collect IDocs*	
Basic Type	MATMAS05	

4.2.2.4 Maintain Distribution Model for Material Transfer

Procedure

> **Note**
>
> An SAP ERP expert must perform this procedure.

1. In transaction `BD64`, switch to edit mode.
2. Choose *Create Model View*.
3. Create a model view, as shown in the following table:

Table 21

Field	Value
Short Text	ERP – Sourcing Integration
Technical Name	ERP_ES_INT

4. In the *Distribution Model* list, select *ERP – E-Sourcing Integration* and choose *Add Message Type*.
5. Add the message types MATMAS as shown in the following table:

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Table 22: Fields and Values for Message Type MATMAS

Field	Value	Example
Sender	Logical System of SAP ERP <SID>CLNT<Client Number>	QV5CLNT340
Receiver	Logical System of SAP Sourcing	SOURCING
Message Type	MATMAS	

6. If you want to distribute all materials you can skip this step. If you do not want to distribute all materials you must apply filters as follows.
   1. In transaction `BD64`, select your distribution model and switch to change mode.
   2. Expand your distribution model and double-click *No Filter Set* for the message type `MATMAS` (material master).
   3. In the dialog box that appears, choose *Create Filter Group*.
   4. Enter values for the possible filter groups.

4.2.2.5 Configure Integration Scenario for Send Material Master from SAP ERP to SAP Sourcing

Prerequisites

- Basic Configuration in SAP NetWeaver Process Integration [page 21]

Procedure

> **Note**
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

> **Note**
> Skip this section if you are using **SAP NetWeaver PI 7.3 AEX** You must manually create this item using the information inConfiguring AEX Communication Channels and Integrated Configurat [page 185].

1. In the process integration tools (transaction `SXMB_IFR`), log on to the Integration Directory (SAP NetWeaver PI 7.0x) or Integration Builder (SAP NetWeaver PI 7.1 or higher).
2. **SAP NetWeaver PI 7.0x**: Expand the *Configuration Scenario* node and select the Configuration Scenario that you created in Configure Integration Scenario [page 25] and click *Edit*. From the menu, select *Configuration Scenario* > *Integration Scenario Configurator*. In *Integration Scenario Configurator*, configure the scenario for *Send Material Master from SAP ERP to SAP Sourcing*.

   SAP NetWeaver PI 7.1 or higher: Expand the *Configuration Scenario* node and select the Configuration Scenario that you created in Configure Integration Scenario [page 25] and click *Edit*. From the menu on the right side of the page, select *Configuration Scenario* > *Model Configurator*. In *Model Configurator*, configure the scenario for *Send Material Master from SAP ERP to SAP Sourcing*.

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3. **SAP NetWeaver PI 7.0x**: In the component view, double-click the connector (→) between *Send Material Master to Partner Component* and *Receive Material from ERP*.

   SAP NetWeaver PI 7.1 or higher: In the component view, click the connector (→) between *Send Material Master to Partner Component* and *Receive Material from ERP*.

4. **SAP NetWeaver PI 7.0x**: On the *Connections from the Service Assignment* tab, position the cursor in the *Communication Channel* field for *Sender Business System Services* and, in the dropdown for the create icon, choose *Create Communication Channel with Template*.

   SAP NetWeaver PI 7.1 or higher: On the *Connections from Component Assignment* tab, position the cursor in the *Communication Channel* field for *Sender Business System Components* and, in the dropdown for the create icon, choose *Create Communication Channel with Template*.

5. In the dialog box that appears, proceed as follows:
   1. In step 1 of the dialog box, choose *Continue*.
   2. In step 2 of the dialog box, choose *Continue*.
   3. In step 3 of the dialog box, note the name of the communication channel. You can rename the communication channel if you wish.

      > **Note**
      > If you rename the communication channel, be sure to note down the original name and the new name, and keep this information safe. This will help you later on in this guide.

   4. Choose *Finish* and then choose *Close*.
6. **SAP NetWeaver PI 7.0x**: On the *Connections from the Service Assignment* tab, position the cursor in the *Communication Channel* field for *Receiver Business System Services* and, in the dropdown for the create icon, choose *Create Communication Channel with Template*.

   SAP NetWeaver PI 7.1 or higher: On the *Connections from Component Assignment* tab, position the cursor in the *Communication Channel* field for *Receiver Business System Components* and, in the dropdown for the create icon, choose *Create Communication Channel with Template.*

7. In the dialog box that appears, proceed as follows:
   1. In step 1 of the dialog box, choose *Continue*.
   2. In step 2 of the dialog box, choose *Continue*.
   3. In step 3 of the dialog box, note down the name of the communication channel. You can rename the communication channel if you wish.

      > **Note**
      > If you rename the communication channel, be sure to note down the original name and the new name, and keep this information safe. This will help you later on in this guide.

   4. Choose *Finish* and then choose *Close*.
8. Choose *Apply*.
9. Navigate to Menu ▶ *Settings* ▶ *Apply Changes* ▶ *Save Configuration Scenario* ▶.
10. To generate configuration objects:

    SAP NetWeaver PI 7.0x: Under *Configuration Steps*, click *Generate*.

    SAP NetWeaver PI 7.1 or higher: Click the icon with the tooltip *Create Configuration Objects*.

    In the dialog box that appears, select *Generation*. Ensure that all three checkboxes under *Scope of Generation* are selected. Select *Create New*, and choose *Start*.

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The following table shows the configuration objects that are generated for Send Material Master from SAP ERP to SAP Sourcing. The sender business system is SAP ERP and the receiver business system is SAP Sourcing.

Table 23: Configuration Objects Generated for Send Material Master from SAP ERP to SAP Sourcing.

Sender Interface	Sender Communication Channel Template	Receiver Interface	Receiver Communication Channel Template	Interface Mapping
MATMAS.MATMAS05	CT_Generic_Sending_HTTP_Channel_For_ERP_Outbound_IDOCs	MI_IB_Material	CT_Material_Receiving_File_Channel_For_ES	IM_ERP_Material_To_ES_Mate- rial

> **Note**
>
> If you want to use shared file system, see Transport Protocol Shared File System [page 182] for information about how to configure the communication channels.

4.2.2.6 Configure Communication Channel for Send Material Master

Procedure

> **Note**
>
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

> **Note**
>
> Skip this section if you are using **SAP NetWeaver PI 7.3 AEX** You must manually create this item using the information inConfiguring AEX Communication Channels and Integrated Configurat [page 185].

1. In the process integration tools (transaction `SXMB_IFR`), log on to the *Integration Directory* (SAP NetWeaver PI 7.0x) or *Integration Builder* (SAP NetWeaver PI 7.1 or higher).
2. Configure the communication channel that is associated with the SAP ERP business system. Double-click the communication channel `CT_Material_Receiving_File_Channel_For_ES` and enter the data listed in the table below. In the table, the name of the communication channel is the name in the standard system. You might have renamed the communication channel when you created it in Configure Integration Scenario for Send Material Master [page 40].

   > **Note**
   >
   > The default transport protocol of the file communication channel templates is FTP.Request the FTP details in the following tables (for example, path of FTP directory, IP address of FTP server) from your integration team.

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Table 24: Parameters and Values for Communication Channel CT_Material_Receiving_File_Channel_For_ES

Parameter	Value
Target Directory	Enter the path of the FTP directory.
Server	Enter the FQDN of the FTP server.
Anonymous Login	Deselect.
User Name	Enter the user name and password of the FTP account.
Password	Enter the user name and password of the FTP account.

> **Note**
>
> If you want to use a shared file system, see Transport Protocol Shared File System [page 182] for information about how to configure the communication channels.

3. Save your entries.
4. Activate all configuration objects and the configuration scenario as follows:
   1. Expand the change lists on the *Change Lists* tab.
   2. Right-click your change list and choose *Activate*.
   3. In the dialog box that appears, choose *Activate*.
   4. Some objects are in your change list, but some are in the standard change list. Activate these objects too. Activate the objects in the standard change list before you activate objects in your change list.

   This activates the SAP ERP business system and SAP Sourcing business system, communication channels, receiver determinations, interface determinations, receiver agreements, sender agreements, and configuration scenario.

> **Note**
>
> All data has already been copied from the template for the following communication channel: `CT_Generic_Sending_HTTP_Channel_For_ERP_Outbound_IDOCs`.

More Information

Configuring AEX Communication Channels [external document]

4.2.2.7 Create Scheduled Tasks to Import XML Messages for Materials

> **Note**
>
> An SAP Sourcing expert must perform this procedure.

You must create the following scheduled task in SAP Sourcing to import the XML messages that are generated by SAP NetWeaver Process Integration: .

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Procedure

1. Log on to SAP Sourcing as a user with system administration rights.
2. Choose *Setup*.
3. On the *System Setup* tab, find the *Scheduled Tasks* section and click *Scheduled Tasks*.
4. Choose *New*.
5. Select *Data Import Monitor* and choose *Continue*.
6. Create the scheduled task for materials as shown in the following table.

   Table 25: **Scheduled Task for Materials**

Field	Value
Inactive (Status)	Select this checkbox until you are ready to run the task.
Display Name	Master Data Import
Description	Enter `Import of Materials`.
Run As User	Choose a key user.
Frequency	Set the frequency according to your business requirements. However, be aware that running these tasks too frequently will cause performance issues. **Recommendation** • For materials, we recommend running once daily in the middle of the night
Start Date	As required.
Expiration Date	As required.
On These Days	As required.

7. Click *Data Import Task Configuration*.
8. Maintain the data import task configuration as shown in the following table.

   Table 26

Field	Value
Data Location	FTP
Requires Authentication	Select
Delete Data from FTP Server After Downloading	Select
Upload Directory	Provided by your IT network expert.
Queue Directory	Provided by your IT network expert.
Archive Directory	Provided by your IT network expert.
Receipt Notice Type Completion Notice Type	Be aware that a setting other than *None* could cause many e-mails or alerts because an e-mail or alert is sent for each import file.

9. Save your entries.

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4.2.2.8 Carry Out Initial Load of Materials

Procedure

> **Note**
>
> An SAP ERP expert must perform this procedure.

> **Note**
>
> You can prevent the sending of materials without purchasing data to SAP Sourcing by implementing the Business Add-In (BAdI) `IDOC_CREATION_CHECK` in SAP ERP. Sample code is provided below.

```
METHOD if_ex_idoc_creation_check~idoc_data_check.
DATA: ls_idoc_data TYPE edidd.
IF idoc_control-rcvprn = 'FRWESO' "System name defined in BD64
AND idoc_control-mestyp = 'MATMAS' "Defined in WE20
AND idoc_control-idoctp = 'MATMAS05'. "Defined in WE20
IF cl_bbp_es_settings=>es_erp_active( ) = 'X'.
READ TABLE idoc_data WITH KEY segnam = 'E1MARCM'
TRANSPORTING NO FIELDS.
IF sy-subrc <> 0.
CLEAR create_idoc.
ENDIF.
ENDIF.
ENDIF.
ENDMETHOD.
```

> **Note**
>
> The following procedure describes how to carry out the initial load manually. You can also carry out the initial load in the background. You do this in transaction `SM36` by scheduling a background job for program `RBDSEMAT`. You can monitor the background job in transaction `SM37`.

1. In transaction `BD10`, enter your data as shown in the following table:

   Table 27: Parameters and Values for Sending Materials

Field	Value	Example
Material	Enter the materials that you want to send.	
Message Type	MATMAS	
Logical System	Logical system of SAP Sourcing	SOURCING
Number of Materials per Process	Remove any value in this field and leave it blank.	

2. Choose *Execute*.

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3. This step is necessary only if you selected the output mode *Collect IDocs* when maintaining the partner profile. For more information, see Maintain Partner Profile for Materials Transfer [page 38].

   In transaction `SE38`, execute program `RSEOUT00` to process the IDocs. Enter the parameters as shown in the following table. You can also schedule this program as a background job.

   Table 28: Parameters and Values for Program RSEOUT00

Parameter	Value
Basic Type	MATMAS05
Port of Receiver	Enter the port that you created in Maintain Port Definition for Material Transfer [page 38].
Logical Message	MATMAS
Maximum Number of IDocs	Enter the number of IDocs to be exported in a single message. The number depends greatly on the message size of the single IDoc. The number can be higher for small objects, but should be lower for large objects such as materials. If the message becomes too large, more memory and time is required for extraction in SAP ERP and for mapping in SAP NetWeaver Process Integration. For materials, we have found that bundling approximately 100 IDocs leads to optimum throughput when sending only client-level data.

Follow-Up Activities

1. In transaction `WE02`, check the IDocs by entering criteria such as the date and time created, direction, and basic type.
2. After a full batch of files is imported, verify the success of the import in SAP Sourcing as follows:
   1. Log on to SAP Sourcing as a user that is scoped to the enterprise context and has the right to import data.
   2. Choose *Setup*.
   3. On the *System Administration* tab, find the *Import and Export Tools* section and click *Import Data*.
   4. In the *Data Import List* dropdown, choose *All Data Imports* (if not already selected).
   5. Correct any file errors and subsequent errors due to missing dependencies. Be sure to correct all errors before importing the next batch of files.

More Information

Troubleshooting [page 124]

Mapping of Material Master Data from SAP ERP to SAP Sourcing [page 137]

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4.2.2.9 Transfer Changes to Materials Using iDoc

> **Note**
> An SAP ERP expert must perform this procedure.

Whenever there is any change in the material master data, change pointers are needed to generate IDocs from the application documents.

Procedure

Maintain Number Range for Change Pointers

Internal numbers are assigned to change pointers for unique identification. The system can only generate the numbers if a number range is maintained for number range interval 01.

1. In transaction BDCP, choose *Display Intervals* to determine whether a number range is already maintained for interval 01.
2. If no number range is maintained for interval 01, choose *Interval* > *Maintain*.
3. On the *Maintain Number Range Intervals* screen, choose *Insert Interval*.
4. Enter interval 01 and a number range, and choose *Insert*.
5. To verify that the entry is error-free, choose *Interval* > *Check*.
6. Save your entries.

Activate Change Pointers – Generally

1. In *Customizing for IDoc Interface / Application Link Enabling* (ALE) (transaction SALE), choose *Modelling and Implementing Business Processes* > *Master Data Distribution* > *Replication of Modified Data* > *Activate Change Pointers - Generally*.
2. Select the *Change Pointers Activated – Generally* checkbox.
3. Save your entries.

Activate Change Pointers for Message Type MATMAS

1. In *Customizing for IDoc Interface / Application Link Enabling* (ALE) (transaction SALE), choose *Modelling and Implementing Business Processes* > *Master Data Distribution* > *Replication of Modified Data* > *Activate Change Pointers for Message Types*.
2. For message type *MATMAS*, select the *Active* checkbox.
3. Save your entry.

Create IDocs from Change Pointers

> **Note**
> The following describes how to create IDocs from change pointers manually. You can also create IDocs from change pointers in the background. You do this in transaction `SM36` by defining a variant and then scheduling a background job for program `RBDMIDOC`. This program reads the change pointers and generates IDocs from them.

1. In transaction BD21, enter message type MATMAS to send IDocs for changes to materials.

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2. Choose *Execute*.

> **Note**
>
> Step #3 is necessary only if you selected the output mode *Collect IDocs* when maintaining the partner profile. For more information, see Maintain Partner Profile for Material Transfer [page 38].

3. In transaction `SE38`, execute program `RSEOUT00` to process the IDocs. Enter the parameters as shown in the following table. You can also schedule this program as a background job.

More Information

Troubleshooting [page 124]

4.3 Vendor Master Integration

> **Note**
>
> This procedure must be performed by an SAP ERP expert, consultant, or key user.

The following scenarios are supported in Vendor Master Integration :

1. You can replicate vendors from SAP ERP to SAP Sourcing.
2. You can publish Suppliers from SAP Sourcing to SAP ERP.
3. You can replicate Vendor from multiple SAP ERP Systems to SAP Sourcing and publish Supplier to multiple SAP ERP Systems from SAP Sourcing.

4.3.1 Vendor Master Data Integration from SAP ERP to SAP Sourcing

After you have replicated customizing data to SAP Sourcing, you can transfer vendor master data from SAP ERP to SAP Sourcing.

There are two different ways to populate your SAP Sourcing or SAP CLM system with vendor data:

- Extract vendor data by using the `BBP_ES_MASTERDATA_EXTRACT` report without using SAP NetWeaver PI. The `BBP_ES_MASTERDATA_EXTRACT` report allows you to select one or more languages, and specify the location for storing the generated XML file. It also provides filter criteria such vendor number, company code, and purchasing organization which allows you to extract only certain vendors.
- Use Application Link Enabling (ALE) distribution, change pointers, and SAP NetWeaver PI configuration.

To maximize performance, you can specify the number of vendor records for every XML file. The default number is 10000. Adjust this value to accommodate your set of vendor data and hardware. This report is designed for an initial load of vendors into SAP Sourcing or SAP CLM. To transfer delta changes, setup SAP NetWeaver PI and iDOC to use the change pointer.

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4.3.1.1 Initial Load of Vendors Using Extraction Report

> **Note**
>
> An SAP ERP expert must perform this procedure.

> **Note**
>
> Use this simple method for an initial upload of vendors data from SAP ERP to SAP Sourcing, when you do not anticipate uploading changes to the data later. In this method, you first run an extraction report, and then import the extracted files into SAP Sourcing. You can import the files manually, or automatically by using a scheduled task.

To extract vendors data from SAP ERP, run the report `BBP_ES_MASTERDATA_EXTRACT`. This report extracts data into an XML document in a format required by SAP Sourcing. You can store the XML file on an application server or locally.

Prerequisites

Business Add-In (BAdI) exits are provided to enhance the standard functionality.

- Use `BAdI BADI_BBP_ES_ADDITIONAL_DATA` to enhance or extend the customizing data during the extraction process.
- Use `BAdI BADI_BBP_ES_DOWNLOAD_XML` to define other locations for saving the XML files.
- Use `BAdI BADI_BBP_ES_REMOVE_DATA` to exclude fields from the XML document. `BAdI BADI_BBP_ES_REMOVE_DATA` has example class `BBP_ES_CL_REMOVE_DATA`.

> **Note**
>
> - If `BAdI BADI_BBP_ES_REMOVE_DATA` is not visible in *Customizing for Integration with Other mySAP.com Components* > *E-Sourcing* > *Business Add-Ins (BAdIs)*, see SAP Note 1458469.
> - Use `BAdI BBP_ES_CHANGE_DATA` to modify fields in the XML files.
> - `BAdI BADI_BBP_ES_CHANGE_DATA` has an example implementation `CL_EXM_IM_BADI_BBP_ES_CHG_DATA`.

> **Note**
>
> If `BAdI BADI_BBP_ES_CHANGE_DATA` is not visible in *Customizing for Integration with Other mySAP.com Components* > *E-Sourcing* > *Business Add-Ins (BAdIs)*, see SAP Note 1458469.

Procedure

1. In transaction `BBP_ES_MAST_DOWNLOAD`, enter the languages in which you want to extract the vendor data.
2. Select Report Version 2 and *Execute*.

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3. Specify whether you want the generated XML files to be saved on the application server or locally. The objective is to get the files to a location where the importer from the SAP Sourcing application can access them.

   Recommendation

   - If you want to schedule the program as a background job, always save the generated XML files on the application server.

     You can implement a BAdI if you want to store the files in a different location that is accessible to the application server.
   - If you want to execute the program online, you can save the files on the application server or locally.

4. Select *Vendor* as the master data object that you want to extract.
5. To select the vendor, enter the input values for the different selection options:
   - Vendor
   - Company Code
   - Purchasing Organization
6. Check the file name.
7. Enter the number of vendors to be extracted in a single XML file. By default, 10000 vendors are extracted in one file.
8. Choose *Execute* or schedule the program for execution periodically as needed.
9. Verify that the files are saved in the location that you specified. If you selected *Save on Application Server* in a previous step, you can use transaction `AL11` to check the application server directory.

Importing Extracted Vendors into the SAP Sourcing System

1. Log on to SAP Sourcing with a user that is scoped to the enterprise context, and has the authorization to import data.

   Note

   The *Customizing* data is often requested at enterprise level. This requires you to log onto SAP Sourcing as a user that is scoped to the enterprise company. If any of the objects are company-scoped, and you import them as a company-level user, only that company will see the *Customizing* data. Whether this is desired depends on how you segregate your data.

2. Choose *Setup*.
3. On the *System Administration* tab, find the *Import and Export Tools* section and choose *Import Data*.
4. Choose *New* and follow the wizard.

More Information

For more information about this program, see the program documentation in SAP ERP.

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4.3.1.2 Initial Load and Ongoing Transfer of Vendors Delta Using IDoc

In the following figure, a vendor is sent from SAP ERP, triggering the creation of a supplier in SAP Sourcing.

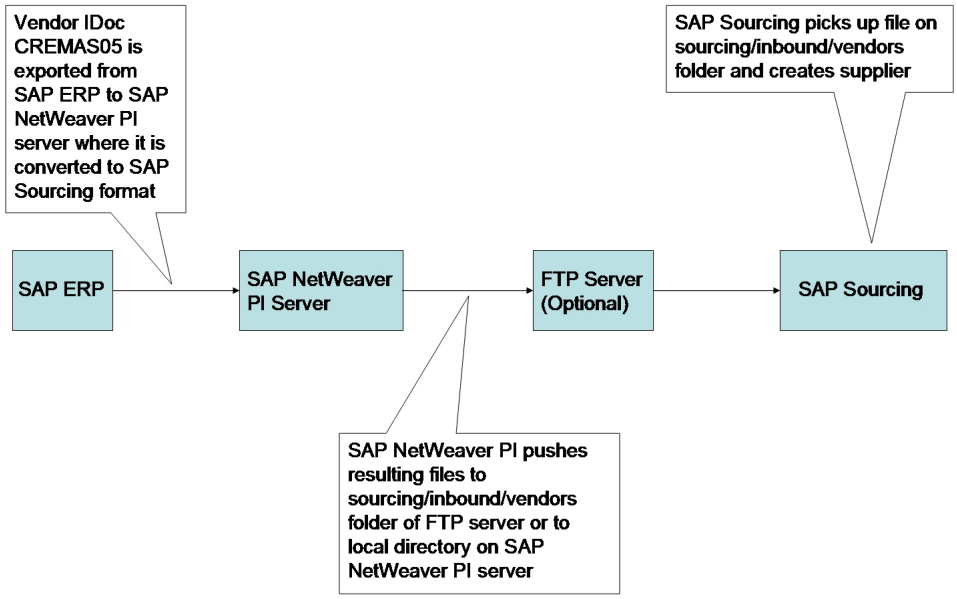

Figure 2: Initial Load Workflow from SAP ERP to SAP Sourcing Using iDoc

4.3.1.2.1 Maintain RFC Destination for Vendor Transfer

You need to maintain the RFC destination to define the target system of the master data IDocs.

> **Note**
>
> An SAP ERP expert must perform this procedure.

Prerequisites

- Define Logical System [page 19].

> **Recommendation**
>
> To improve throughput of master data IDocs, we recommend bundling single IDocs for SAP NetWeaver Process Integration (SAP NetWeaver PI) using the XML HTTP port type on the outbound side and the plain HTTP adapter on the inbound side. By choosing the XML HTTP port type, IDocs are sent using HTTP in one XML message containing multiple IDocs. With the XML file port type, the ALE layer creates the IDocs directly in one single file in their XML representation.

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Procedure

1. In transaction **SM59**, select *HTTP Connections to ABAP System* and choose *Create*. If you are using **SAP NetWeaver PI 7.3 AEX**, select *HTTP Connection to External Server* and choose *Create*.
2. Create an entry for vendor, as shown in the following table:

Table 29: Fields and Values for Vendor

Field	Value	Example
RFC Destination	<SID of SAP NetWeaver PI><Client Number of SAP NetWeaver PI>_HTTPPLAIN_<Message Type>	X7X001_HTTPPLAIN_CREMAS
Connection Type	H	
Description	HTTP Connection to SAP NetWeaver PI System for Vendor Load	
Target Host	<SAP NetWeaver PI Server>	uscix7x.sap.com
Service No.	HTTP Service Port of SAP NetWeaver PI Server	50050
Path Prefix	/sap/xi/adapter_plain/?namespace=urn:sap-com:document:sap:idoc:messages&interface=CREMAS.CREMAS05&service=<Sender System>&qos=EO (or EOIO)	/sap/xi/adapter_plain/?namespace=urn:sap-com:document:sap:idoc:messages&interface=CREMAS.CREMAS05&service=QV5_340&qos=EO
Language	Details to connect to SAP NetWeaver PI system	
Client	Details to connect to SAP NetWeaver PI system	
User	Details to connect to SAP NetWeaver PI system	
Password	Details to connect to SAP NetWeaver PI system	

Table 30: Fields and Values for Vendor (for SAP NetWeaver PI 7.3 AEX)

Field	Value	Example
RFC Destination	<SID of SAP NetWeaver PI><Client Number of SAP NetWeaver PI>_HTTPPLAIN_<Message Type>	E7W_HTTPPLAIN_CRE380
Connection Type	G	
Description	HTTP Connection to SAP Net Weaver PI System for Vendor Load	
Target Host	<SAP NetWeaver PI Server>	nvpal723.sap.com
Service No.	HTTP Service Port of SAP NetWeaver PI Server	50000
Path Prefix	/HttpAdapter/HttpMessageServlet?interfaceNamespace=urn:sap-com:document:sap:idoc:messages&interface=CREMAS.CREMAS05&senderService=<Sender_System>& qos=EO	/HttpAdapter/HttpMessageServlet?interfaceNamespace=urn:sap-com:document:sap:idoc:messages&interface=CREMAS.CREMAS05&senderService=QV6_380& qos=EO
Logon with User	Select *Basic Authentication*.	
User	Details to connect to SAP NetWeaver PI system	

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Field	Value	Example
Password	Details to connect to SAP NetWeaver PI system	

3. Ensure the status of the connection by choosing *Connection Test*.

   If the connection is successful, the RFC connection test screen appears, indicating the connection type and other connection data.

4.3.1.2.2 Maintain Port Definition for Vendor Transfer

Procedure

> **Note**
>
> An SAP ERP expert must perform this procedure.

1. In transaction `WE21`, select *XML HTTP* and choose *Create*.
2. Create an entry for vendor, as shown in the following table:

> **Note**
>
> If you are using **SAP NetWeaver PI 7.3 AEX**, use the RFC destination you created for **SAP NetWeaver PI 7.3 AEX** in Maintain RFC Destination for Vendor Transfer [page 51].

Table 31: Fields and Values for Vendor

Field	Value	Example
Port	<SID of SAP NetWeaver PI System>_<Message Type>	X7X_CREMAS
Description	XML HTTP Port to <SID of SAP NetWeaver PI System> Client <SAP NetWeaver PI Client> for <Message Type>	XML HTTP Port to X7X Client 001 for CREMAS
RFC Destination	RFC destination that you created in Maintain RFC Destination for Vendor Transfer [page 51].	X7X001_HTTPPLAIN_CREMAS
Content Type	Text/XML	

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4.3.1.2.3 Maintain Partner Profile for Vendor Transfer from SAP ERP to SAP Sourcing

Procedure

> **Note**
> An SAP ERP expert must perform this procedure.

> **Caution**
> If you have not already completed the steps in Maintain Partner Profile for Vendor Transfer from SAP Sourcing t [page 64], perform step 1 below; otherwise perform step 2 below.

1. In transaction `WE20`, select *Partner Type LS* and select *Create*.

   Table 32: Fields and Values for Partner Profile

Field	Value	Example
Partner Number	<Partner Number of SAP Sourcing Logical System>	SOURCING
Partner Type	LS	
Type	O or US	
Agent	Enter the job (person or group of persons) to be notified in case of error	50010120
Language	EN	

2. Go to transaction `WE20` and select the partner profile you created.
3. Specify the following outbound parameters for message type CREMAS:

   Table 33: Outbound Parameters for Message Type CREMAS

Field	Value	Example
Message Type	CREMAS	
Receiver Port	Select the XML HTTP port that you created in Maintain Port Definition for Vendor Transfer [page 53].	X7X_CREMAS
Output Mode	For better performance throughput during the initial upload of vendors, select *Collect IDocs*.	
Basic Type	CREMAS05	

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4.3.1.2.4 Maintain Distribution Model for Vendor Transfer

Prerequisites

You have carried out the steps in Maintain Partner Profile for Vendor Transfer from SAP ERP to SAP [page 54].

Procedure

> **Note**
> An ERP expert or consultant must perform this procedure.

1. In transaction `BD64`, switch to edit mode.
2. Choose *Create Model View*.
3. Create a model view, as shown in the following table:

   Table 34

Field	Value
Short Text	ERP – Sourcing Integration
Technical Name	ERP_ES_INT

4. In the *Distribution Model* list, select *ERP – E-Sourcing Integration* and choose *Add Message Type*.
5. Add the message types **CREMAS** as shown in the following table:

   Table 35: Fields and Values for Message Type CREMAS

Field	Value	Example
Sender	Logical System of SAP ERP <SID>CLNT<Client Number>	QV5CLNT340
Receiver	Logical System of SAP Sourcing	SOURCING
Message Type	CREMAS	

6. If you want to distribute all vendors you can skip this step. If you do not want to distribute all vendors you must apply filters as follows.
   1. In transaction `BD64`, select your distribution model and switch to change mode.
   2. Expand your distribution model and double-click *No Filter Set* for the message type `CREMAS` (vendor master).
   3. In the dialog box that appears, choose *Create Filter Group*.
   4. Enter values for the possible filter groups.

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4.3.1.2.5 Configure Integration Scenarios for Send Vendor Master from SAP ERP to SAP Sourcing

Prerequisites

- Basic Configuration in SAP NetWeaver Process Integration [page 21]

Procedure

> **Note**
>
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

> **Note**
>
> Skip this section if you are using **SAP NetWeaver PI 7.3 AEX** You must manually create this item using the information inConfiguring AEX Communication Channels and Integrated Configurat [page 185].

1. In the process integration tools (transaction `SXMB_IFR`), log on to the Integration Directory (SAP NetWeaver PI 7.0x) or Integration Builder (SAP NetWeaver PI 7.1 or higher).
2. **SAP NetWeaver PI 7.0x**: Select the Configuration Scenario that you created in Configure Integration Scenario [page 25] and click *Edit*. From the menu, select *Configuration Scenario* > *Integration Scenario Configurator*. In *Integration Scenario Configurator*, configure the scenario for *Send Vendor Master from SAP ERP to SAP Sourcing*.

   SAP NetWeaver PI 7.1 or higher: Select the Configuration Scenario that you created in Configure Integration Scenario [page 25] and click *Edit*. From the menu on the right side of the page, select *Configuration Scenario* > *Model Configurator*. In *Model Configurator*, configure the scenario for *Send Vendor Master from SAP ERP to SAP Sourcing*.
3. **SAP NetWeaver PI 7.0x**: In the component view, double-click the connector (→) between *Send Vendor Master* to *Partner Component* and *Receive Supplier Master from ERP*.

   SAP NetWeaver PI 7.1 or higher: In the component view, click the connector (→) between Send Vendor Master to Partner Component and Receive Supplier Master from ERP.
4. **SAP NetWeaver PI 7.0x**: On the Connections from the *Service Assignment* tab, position the cursor in the Communication Channel field for Sender Business System Services and, in the dropdown for the *Communication Channel* field, select the communication channel that you created for sender business system services in Configure Integration Scenario for Send Material Master from SAP [page 40], and choose *OK*.

   SAP NetWeaver PI 7.1 or higher: On the Connections from *Component Assignment* tab, position the cursor in the Communication Channel field for Sender Business System Components and, in the dropdown for the *Communication Channel* field, select the communication channel that you created for sender business system components in Configure Integration Scenario for Send Material Master from SAP [page 40], and choose *OK*.
5. Repeat steps 6 to 10 of Configure Integration Scenario for Send Material Master from SAP [page 40].

The following table shows the configuration objects that is generated for Send Vendor Master from SAP ERP to SAP Sourcing. The sender business system is SAP ERP, the receiver business system is SAP Sourcing.

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Table 36: Configuration Objects Generated for Send Vendor Master from SAP ERP to SAP Sourcing

Sender Interface	Sender Communication Channel	Receiver Interface	Receiver Communication Channel	Interface Mapping
CREMAS.CRE- MAS05	CT_Generic_Send-ing_HTTP_Chan-nel_For_ERP_Out-bound_IDOCs	MI_IB_Supplier	CT_Supplier_Re-ceiving_File_Chan-nel_For_ES	IM_ERP_Ven-dor_To_ES_Sup- plier

4.3.1.2.6 Configure Communication Channels for Send Vendor Master from SAP ERP to SAP Sourcing

Procedure

> **Note**
>
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure..

> **Note**
>
> Skip this section if you are using **SAP NetWeaver PI 7.3 AEX** You must manually create this item using the information inConfiguring AEX Communication Channels and Integrated Configurat [page 185].

1. In the process integration tools (transaction `SXMB_IFR`), log on to the Integration Directory (SAP NetWeaver PI 7.0x) or Integration Builder (SAP NetWeaver PI 7.1 or higher).
2. Configure the communication channel that is associated with the SAP ERP business system. Double-click the communication channel `CT_Supplier_Receiving_File_Channel_For_ES` and enter the data listed in the following table for that communication channel. In the following table, the name of the communication channel is the name in the standard system. You might have renamed the communication channel when you created it in Configure Integration Scenarios for Send Vendor Master from SAP [page 56].

   > **Note**
   >
   > The default transport protocol of the file communication channel templates is FTP.Request the FTP details in the following tables (for example, path of FTP directory, IP address of FTP server) from your integration team.

   Table 37: Parameters and Values for Communication Channel CT_Supplier_Receiving_File_Channel_For_ES

Parameter	Value
Target Directory	Enter the path of the FTP directory.
Server	Enter the fully qualified domain name (FQDN) of the FTP server.
Anonymous Login	Deselect.
User Name	Enter the user name of the FTP account.

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Parameter	Value
Password	Enter the password of the FTP account.

> **Note**
>
> If you want to use shared file system, seeTransport Protocol Shared File System [page 182] for information about how to configure the communication channels.

3. Save your entries.
4. Activate all configuration objects and the configuration scenario as follows:
   1. Expand the change lists on the *Change Lists* tab.
   2. Right-click your change list and choose *Activate*.
   3. In the dialog box that appears, choose *Activate*.
   4. Some objects are in your change list and some are in the standard change list. Don't forget to activate these objects. Activate the objects in the standard change list before you activate objects in your change list. This activates the communication channel, receiver agreement, sender agreement, and configuration scenario.

   This activates the SAP ERP business system and SAP Sourcing business system, communication channels, receiver determinations, interface determinations, receiver agreements, sender agreements, and configuration scenario.

> **Note**
>
> All data has already been copied from the template for the following communication channel: `CT_Generic_Sending_HTTP_Channel_For_ERP_Outbound_IDOCs`.

4.3.1.2.7 Create Scheduled Tasks to Import XML Messages for Vendors

> **Note**
>
> An SAP Sourcing expert must perform this procedure.

Procedure

1. Log on to SAP Sourcing as a user with system administration rights.
2. Choose *Setup*.
3. On the *System Setup* tab, go to the *Scheduled Tasks* section and click *Scheduled Tasks*.
4. Choose *New*.
5. Select *Data Import Monitor* and choose *Continue*.
6. Create the scheduled task for materials as shown in the following table:

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Table 38

Field	Value
Inactive (Status)	Select this checkbox until you are ready to run the task.
Display Name	Master Data Import
Description	Enter **`Import of Vendors`**.
Run As User	Choose a key user.
Frequency	Set the frequency according to your business requirements. However, be aware that running these task too frequently can cause performance issues. **Recommendation** The tasks run off the same daemon so we recommend **`three times daily`**
Start Date	As required.
Expiration Date	As required.
On These Days	As required.

7. Click *Data Import Task Configuration*.
8. Maintain the data import task configuration as shown in the following table:

Table 39

Field	Value
Data Location	FTP
Requires Authentication	Select
FTP Information	Provided by your IT network expert.
Delete Data from FTP Server After Downloading	Select
Upload Directory	Provided by your IT network expert.
Queue Directory	Provided by your IT network expert.
Archive Directory	Provided by your IT network expert.
Receipt Notice Type Completion Notice Type	Be aware that a setting other than **`None`** could cause many e-mails or alerts because an e-mail or alert is sent for each import file.

9. Save your entries.

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4.3.1.2.8 Carry Out Initial Load of Vendors from SAP ERP to SAP Sourcing

Procedure

> **Note**
>
> An SAP ERP expert must perform this procedure.

> **Note**
>
> The following procedure describes how to carry out the initial load manually. You can also carry out the initial load in the background. You do this in transaction `SM36` by scheduling a background job for program `RBDSECRE`. You can monitor the background job in transaction `SM37`.

1. In transaction `BD14`, enter your data as shown in the following table:

   Table 40: Parameters and Values for Sending Vendors

Field	Value	Example
Account Number of Vendor	Enter the vendors that you want to send.	
Message Type	CREMAS	
Target System	Logical system of SAP Sourcing	SOURCING
Number of Vendors per Process	Remove any value in this field and leave it blank.	

2. Choose *Execute*.
3. This step is necessary only if you selected the output mode *Collect IDocs* when maintaining the partner profile. For more information, see Maintain Partner Profile for Vendor Transfer from SAP ERP to SAP [page 54].

   In transaction `SE38`, execute program `RSEOUT00` to process the IDocs. Enter the parameters as shown in the following table. You can also schedule this program as a background job.

   Table 41: Parameters and Values for Program RSEOUT00

Parameter	Value
Basic Type	CREMAS05
Port of Receiver	Enter the port that you created in Maintain Port Definition for Vendor Transfer [page 53]
Logical Message	CREMAS

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Parameter	Value
Maximum Number of IDocs	Enter the number of IDocs to be exported in a single message. The number depends greatly on the message size of the single IDoc. The number can be higher for small objects, but should be lower for large objects. If the message becomes too large, more memory and time is required for extraction in SAP ERP and for mapping in SAP NetWeaver Process Integration.

Follow-Up Activities

1. In transaction `WE02`, check the IDocs by entering criteria such as the date and time created, direction, and basic type.
2. After a full batch of files is imported, verify the success of the import in SAP Sourcing as follows:
    1. Log on to SAP Sourcing as a user that is scoped to the enterprise context and has the right to import data.
    2. Choose *Setup*.
    3. On the *System Administration* tab, find the *Import and Export Tools* section and click *Import Data*.
    4. In the *Data Import List* dropdown, choose *All Data Imports* (if not already selected).
    5. Correct any file errors and subsequent errors due to missing dependencies. Be sure to correct all errors before importing the next batch of files.

More Information

Troubleshooting [page 124]

Mapping of Vendor Master Data from SAP ERP to SAP Sourcing [page 139]

4.3.1.2.9 Transfer Changes to Vendor from SAP ERP to SAP Sourcing

Whenever there is any change in the vendor master data, change pointers are needed to generate IDocs from the application documents.

Procedure

> **Note**
>
> An SAP ERP expert must perform this procedure.

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Maintain Number Range for Change Pointers

> **Note**
>
> You do not have to perform this procedure if number ranges are already maintained for Change Pointers (as part of the material transfer configuration). For more information, see Transfer Changes to Materials Using iDoc [page 47].

Internal numbers are assigned to change pointers for unique identification. The system can only generate the numbers if a number range is maintained for number range interval 01.

1. In transaction BDCP, choose *Display Intervals* to determine whether a number range is already maintained for interval 01.
2. If no number range is maintained for interval 01, choose *Interval* > *Maintain*.
3. On the *Maintain Number Range Intervals* screen, choose *Insert Interval*.
4. Enter interval 01 and a number range, and choose *Insert*.
5. To verify that the entry is error-free, choose *Interval Check*.
6. Save your entries.

Activate Change Pointers – Generally

> **Note**
>
> You do not have to perform this procedure if number ranges are already activated for Change Pointers (as part of the material transfer configuration). For more information, see Transfer Changes to Materials Using iDoc [page 47].

1. 1. In Customizing for IDoc Interface / Application Link Enabling (ALE) (transaction SALE), choose *Modelling and Implementing Business Processes* > *Master Data Distribution* > *Replication of Modified Data* > *Activate Change Pointers - Generally*.
2. Select the *Change Pointers Activated – Generally* checkbox.
3. Save your entries.

Activate Change Pointers for Message Type CREMAS

1. *In Customizing for IDoc Interface / Application Link Enabling (ALE)* (transaction SALE), choose *Modelling and Implementing Business Processes* > *Master Data Distribution* > *Replication of Modified Data* > *Activate Change Pointers for Message Types*.
2. For message type CREMAS, select the *Active* checkbox.
3. Save your entries.

Create IDocs from Change Pointers

> **Note**
>
> The following procedure describes how to create IDocs from change pointers manually. You can also create IDocs from change pointers in the background. You do this in transaction `SM36` by defining a variant and then scheduling a background job for program `RBDMIDOC`. This program reads the change pointers and generates IDocs from them.

1. In transaction BD21, enter message type CREMAS to send IDocs for changes to vendors.
2. Choose *Execute*.

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3. This step is necessary only if you selected the output mode Collect IDocs when maintaining the partner profile. For more information, see Maintain Partner Profile for Vendor Transfer from SAP ERP to SAP [page 54]. In transaction `SE38`, execute program `RSEOUT00` to process the IDocs. Enter the parameters as shown in the following table. You can also schedule this program as a background job.

Table 42: Parameters and Values for Program RSEOUT00

Parameter	Value
Basic Type	CREMAS05 for vendors
Port of Receiver	Enter the port that you created in Maintain Port Definition for Vendor Transfer [page 53]
Logical Message	CREMAS for vendors
Maximum Number of IDocs	Enter the number of IDocs to be exported in a single message. The number depends greatly on the message size of the single IDoc. The number can be higher for small objects, but should be lower for large objects . If the message becomes too large, more memory and time is required for extraction in SAP ERP and for mapping in SAP NetWeaver Process Integration.

4.3.2 Publishing Suppliers from SAP Sourcing to SAP ERP

> **Note**
>
> This is carried out by your SAP Sourcing expert or consultant.

This step is necessary only if you want to publish suppliers from SAP Sourcing to SAP ERP.

- Carry out the steps in Transfer Changes to Vendor from SAP ERP to SAP Sourcing [page 61].
- To publish suppliers from SAP Sourcing to SAP ERP, all non-integrated fields for vendor master data must be optional in SAP ERP (that is, they must not require a value). If they are mandatory, the vendor will not be created in SAP ERP because SAP Sourcing provides values only for integrated fields. You can use transaction `WE02` in SAP ERP to view the corresponding IDoc `CREMAS05` and its log.

In the following figure, a supplier is published from SAP Sourcing, triggering the creation of a vendor in SAP ERP. The transfer of files from SAP Sourcing to SAP NetWeaver PI can be achieved either by FTP server or by creating a shared directory on the SAP NetWeaver PI server.



Figure 3: Integration Architecture for Supplier Publishing

More Information

- Troubleshooting [page 124]
- Mapping of Supplier Master Data from SAP Sourcing to SAP ERP [page 142]
- See also *Configuring AEX Communication Channels* [external document]

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4.3.2.1 Maintain Partner Profile for Vendor Transfer from SAP Sourcing to SAP ERP

Prerequisites

- Maintain Partner Profile for Vendor Transfer from SAP ERP to SAP Sourcing [page 54]

Procedure

> **Note**
> An SAP ERP expert must perform this procedure.

1. In transaction `WE20`, select the partner profile you created in the step Maintain Partner Profile for Vendor Transfer from SAP ERP to SAP Sourcing [page 54].
2. Specify the following inbound parameters for message type CREMAS:

   Table 43: Inbound Parameters for Message Type CREMAS

Field	Value
Message Type	CREMAS
Process Code	CRE1
Processing by Function Module	Trigger Immediately

4.3.2.2 Maintain Vendor Account Group in SAP ERP Customization

Prerequisites

- You must have extracted *Vendor Account Group* and imported them manually in SAP Sourcing.

Procedure

> **Note**
> An SAP ERP expert must perform this procedure in collaboration with an SAP Services consultant.

1. Log on to SAP Sourcing as a user with the right to edit the master data.
2. Choose *Setup*.
3. On the *Master Data* tab, find the *Organization and Accounting* section and choose *Vendor Account Groups*.
4. You can see the *Vendor Account Groups* replicated from the SAP ERP logical system.

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5. Log into the SAP ERP system, and in *Integration with Other mySAP.com Components*, go to *E-Sourcing* > *Settings for E-Sourcing Integration*.
6. Under *Vendor Publishing*, enter the vendor account group that is replicated from SAP ERP in SAP Sourcing and is used to identify suppliers published from SAP Sourcing to SAP ERP.

4.3.2.3 Activate Business Configuration Set in SAP ERP

Procedure

In the SAP ERP Customizing client, go to transaction **SCPR20**, and activate the business configuration set `BBP_ES_VENDOR_MASTER`.

4.3.2.4 Configure Integration Scenario for Send Supplier Master

Procedure

> **Note**
>
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

> **Note**
>
> Skip this section if you are using **SAP NetWeaver PI 7.3 AEX** You must manually create this item using the information inConfiguring AEX Communication Channels and Integrated Configurat [page 185].

1. In the process integration tools (transaction SXMB_IFR), log on to the Integration Directory (SAP NetWeaver PI 7.0) or Integration Builder (SAP NetWeaver PI 7.1).
2. **SAP NetWeaver PI 7.0x**: Select the Configuration Scenario that you created in Configure Integration Scenario [page 25] and click *Edit*. From the menu, select *Configuration Scenario* > *Integration Scenario Configurator*. In *Integration Scenario Configurator*, configure the scenario for *Send Supplier Master from SAP ERP to SAP Sourcing*.

   SAP NetWeaver PI 7.1 or higher: Select the Configuration Scenario that you created in Configure Integration Scenario [page 25] and click *Edit*. From the menu on the right side of the page, select *Configuration Scenario* > *Model Configurator*. In *Model Configurator*, configure the scenario for *Send Supplier Master from SAP ERP to SAP Sourcing*.
3. **SAP NetWeaver PI 7.0x** In the component view, double-click the connector (<-) between Send Supplier Master to ERP and Receive Vendor Master from Partner Component.

   SAP NetWeaver PI 7.1 or higher: In the component view, click the connector (<-) between Send Supplier Master to ERP and Receive Vendor Master from Partner Component.
4. Repeat steps 4 to 10 of Configure Integration Scenario for Send Material Master from SAP [page 40].

The following table shows the configuration objects that are generated for Send Supplier Master from SAP Sourcing to SAP ERP. The sender business system is SAP Sourcing, the receiver business system is SAP ERP.

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Table 44

Sender Interface	Sender Communication Channel	Receiver Interface	Receiver Communication Channel	Interface Mapping
MI_OB_Supplier	CT_Supplier_Sending_File_Channel_For_ES	CREMAS.CREMAS05	CT_Generic_Receiving_IDOC_Channel_For_ERP_Inbound_IDOCs	IM_Supplier_To_Vendor

4.3.2.5 Configure Communication Channel for Send Supplier Master from SAP Sourcing to SAP ERP

Procedure

> **Note**
>
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

> **Note**
>
> Skip this section if you are using **SAP NetWeaver PI 7.3 AEX** You must manually create this item using the information inConfiguring AEX Communication Channels and Integrated Configurat [page 185].

1. In the process integration tools (transaction SXMB_IFR), log on to the *Integration Directory* (SAP NetWeaver PI 7.0x) or *Integration Builder* (SAP NetWeaver PI 7.1 or higher).
2. Under *Configuration Scenario*, open the configuration scenario that you created in *Configure Integration Scenarios*.
3. Configure the communication channel that is associated with the SAP ERP business system. Double-click the communication channel and enter the data shown in the following table. In the table, CT_Supplier_Sending_File_Channel_For_ES, the name of the communication channel is the name in the standard system, . You may have renamed the communication channel when you created them in *Configure Integration Scenarios for Send Supplier Master from SAP Sourcing to SAP ERP*.

   > **Note**
   >
   > The default transport protocol of the file communication channel templates is FTP. Request the FTP details in the following tables (for example, path of FTP directory, IP address of FTP server) from your integration team.

   Table 45: Parameters and Values for Communication Channel CT_Supplier_Sending_File_Channel_For_ES

Parameter	Value
Source Directory	Enter the path of the FTP directory.
File Name	*Vendor*.xml
Server	Enter the FTP server.

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Parameter	Value
Anonymous Login	Deselect.
User Name	Enter the user name and password of the FTP account.
Password	Enter the user name and password of the FTP account.
Quality of Service (This field is on the Processing tab.)	Exactly Once
Poll Interval (Secs) (This field is on the Processing tab.)	Set the poll interval according to your business requirements. However, be aware that a very short poll interval will reduce performance. **Recommendation** We recommend a poll interval of 300 seconds (5 minutes).
Processing Mode (This field is on the Processing tab.)	Choose *Delete*.

Note

If you want to use a shared file system, see Transport Protocol Shared File System [page 182] for information about how to configure the communication channels.

Table 46: Parameters and Values for Communication Channel CT_Generic_Receiving_IDOC_Channel_For_ERP_Inbound_IDOCs

Parameter	Value	Example
RFC Destination	<RFC destination of SAP ERP system>	QV5CLNT340
Interface Version	SAP Release 4.0 or Higher	
Port	SAP <ERP system ID>	SAPQV5
SAP Release	Enter the current release of your SAP ERP system. You can get the release by checking the system status.	

4. Activate all configuration objects and the configuration scenario as follows:
   1. Expand the change lists on the *Change Lists* tab.
   2. Right-click your change list and choose *Activate*.
   3. In the dialog box that appears, choose *Activate*.
   4. Save your entries.
   5. Some objects are in your change list, but some are in the standard change list. Do not forget to activate these objects. Activate the objects in the standard change list before you activate objects in your change list. This activates the communication channel, receiver agreement, sender agreement, and configuration scenario.

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4.3.2.6 Assign Profile to User to Allow Publish/Republish of Suppliers

Procedure

Assign Supplier Administrator Profile to Users Designated to Publish Suppliers

1. In SAP Sourcing, choose *Setup*.
2. On the *System Administration* tab, locate the *Accounts and Security* section and select *Internal User Accounts*.
3. Select the user to which you want to assign the profile.
4. On the *Security* tab, select the *Supplier Administrator* profile and save your entries.

Allow Republishing of Suppliers

When a supplier is published unsuccessfully from SAP Sourcing to SAP ERP, a user assigned the*Tenant Administrator* profile can republish after correcting the errors that caused the supplier to be published unsuccessfully.

Procedure

1. In SAP Sourcing, choose *Setup*.
2. On the *System Administration* tab, find the *Accounts and Security* section and choose *Security Profiles*.
3. Open the *Tenant Administrator* profile.
4. On the *Access Rights* tab, find the *Show Only* field and choose Supplier Management from the dropdown.
5. Check that the *Manage Integration of Suppliers with External Systems* permission is set to *Allow*.

More Information

For more information about republishing suppliers, see SAP Library for SAP Sourcing on SAP Help Portal at help.sap.com *SAP Business Suite* *SAP Sourcing* *SAP Sourcing 9.0 / SAP Sourcing 9.0 - Service Packs* *Help for Purchasers* *English* *Integration with SAP ERP* *Master Data* *Publishing Suppliers from SAP Sourcing to SAP ERP*.

Also see Mapping of Supplier Master Data from SAP Sourcing to SAP ERP [page 142].

4.3.3 Integration of Suppliers with Multiple SAP ERP Systems

Perform the steps in this chapter only if you want to replicate vendors from multiple SAP ERP systems to SAP Sourcing.

If you are integrating SAP Sourcing with a single SAP ERP system, you can skip this chapter and proceed to the Business Process Integration [page 81] chapter.

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4.3.3.1 Enable Integration of Suppliers with Multiple SAP ERP Systems

> **Note**
>
> An SAP Sourcing expert must perform this procedure.

In this step, you define a system property to enable the integration of suppliers with multiple SAP ERP systems.

Procedure

1. Log on to SAP Sourcing with any user that has access to enterprise-level system properties.
2. Choose *Setup*.
3. On the *System Setup* tab, find the *Configuration* section and click *System Properties*.
4. Choose *New*.
5. Create the system property as shown in the following table.

   Table 47

Field	Value
Set	odp.doc
Name	odp.doc.integration.enable.suppliers_to_from_multi_external_systems
Value	TRUE

6. Save your entries.

4.3.3.2 Define Business System for Each SAP ERP System

Procedure

> **Note**
>
> An SAP ERP expert must perform this procedure in collaboration with an SAP Sourcing expert.

Define a business system in SAP Sourcing for each SAP ERP system that you want to integrate with SAP Sourcing. To do this, follow the steps in Create Business System for SAP ERP in SAP Sourcing [page 17].

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4.3.3.3 Define Logical System for SAP Sourcing in Each SAP ERP System

Procedure

> **Note**
>
> An SAP ERP expert must perform this procedure in collaboration with an SAP Sourcing expert.

Define a logical system in SAP Sourcing for each SAP ERP system that you want to integrate with SAP Sourcing. To do this, follow the steps in Define Logical System for SAP Sourcing in SAP ERP [page 19].

4.3.3.4 Extract Customizing Data from Each SAP ERP System and Import to SAP Sourcing

Procedure

> **Note**
>
> An SAP ERP expert must perform this procedure in collaboration with an SAP Sourcing expert.

Carry out the following steps for each SAP ERP system that you want to integrate with SAP Sourcing.

- Extract the company codes, purchasing organizations, and Vendor account groups from SAP ERP, and import them into SAP Sourcing as follows:
  - Extract Customizing Data from SAP ERP in XML Format [page 29]
  - Carry Out Initial Load of Customizing Data in SAP Sourcing [page 31]

4.3.3.5 Register Each SAP ERP System

Procedure

> **Note**
>
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

In the System Landscape Directory (SLD), register each SAP ERP system that you want to integrate with SAP Sourcing. To do this, carry out steps 3 and 5 in Set Up System Landscape Directory [page 22].

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4.3.3.6 Define RFC Destination and Port for Each SAP ERP System

Procedure

> **Note**
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

> **Note**
> Skip this section if you are using SAP NetWeaver PI AEX 7.3.

Perform steps 1 and 2 in Define RFC Destination and Port [page 23] for each SAP ERP system that you want to integrate with SAP Sourcing.

4.3.3.7 Import Each SAP ERP System from System Landscape Directory to Integration Builder

Procedure

> **Note**
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

1. In the process integration tools (transaction `SXMB_IFR`), log on to the Integration Builder.
2. Under *Communication Component*, right-click *Business System* and choose *Assign Business System...*
3. In the dialog box that appears, choose *Continue* > *Continue* >, and select the business system that represents the SAP ERP system that you want to integrate with SAP Sourcing.
4. Deselect *Create Communication Channels Automatically*.
5. Click the value help for the *Add to Scenario* field, select the configuration scenario, and choose *Apply*.
6. Choose *Finish*.
7. Repeat for each SAP ERP system that you want to integrate with SAP Sourcing.

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4.3.3.8 Configure Vendor Master from Multiple SAP ERP Systems to SAP Sourcing

4.3.3.8.1 Configure Vendor Master for Each SAP ERP System

> **Note**
> An ERP expert must perform this procedure.

For each SAP ERP system, do the following:

1. Maintain RFC Destination for Vendor Transfer [page 51]
2. Maintain Port Definition for Vendor Transfer [page 53]
3. Maintain Partner Profile for Vendor Transfer from SAP ERP to SAP [page 54]
4. Maintain Distribution Model for Vendor Transfer [page 55]

4.3.3.8.2 Configure Vendor Master Integration Scenario and Communication Channel for Each ERP System

In the process integration tools (transaction SXMB_IFR), log on to the Integration Builder and then open the configuration scenario that you configured for a single SAP ERP system. This is the configuration scenario that you created in Configure Integration Scenarios.

Procedure

> **Note**
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

> **Note**
> Skip this section if you are using **SAP NetWeaver PI 7.3 AEX**.

Copy Receiver Determination

1. In the configuration scenario, search for the receiver determination shown in the following table.

   Table 48

Field	Value
Communication Component (Sender)	SAP ERP system
Interface	CREMAS.CREMAS05
Namespace	urn:sap-com:document:sap:idoc:messages

2. Choose *Copy Object*.

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3. In the *Communication Component* field for the sender, choose the SAP ERP system from the value help. This is the SAP ERP system to which you want to connect.
4. Choose *Copy*.
5. Repeat steps 2 to 4 for each SAP ERP system that you want to integrate with SAP Sourcing.

Copy Interface Determination

1. In the configuration scenario, search for the interface determination shown in the following table.

   Table 49

Field	Value
Communication Component (Sender)	SAP ERP system
Interface	CREMAS.CREMAS05
Namespace	urn:sap-com:document:sap:idoc:messages
Communication Component (Receiver)	SAP Sourcing system

2. Choose *Copy Object*.
3. In the Communication Component field for the sender, choose the SAP ERP system from the value help. This is the SAP ERP system to which you want to connect.
4. In the *Add to Scenario* field, choose the configuration scenario from the value help.
5. Choose *Copy*.
6. Repeat steps 2 to 5 for each SAP ERP system that you want to integrate with SAP Sourcing.

Copy Communication Channel

1. In the configuration scenario, search for the sender communication channel `CT_Generic_Sending_HTTP_Channel_For_ERP_Outbound_IDOCs`.

   > **Note**
   > You may have renamed this communication channel.

2. Choose *Copy Object*.
3. In the Communication Component field, choose the SAP ERP business system from the value help. This is the SAP ERP system that you imported from the SLD to the Integration Builder.
4. If you wish, rename the communication channel.
5. In the *Add to Scenario* field, choose the configuration scenario from the value help.
6. Choose *Copy*.
7. Repeat steps 2 to 6 for each SAP ERP system that you want to integrate with SAP Sourcing.

Copy Sender Agreement

1. In the configuration scenario, search for the sender agreement shown in the following table.

   Table 50

Field	Value
Communication Component (Sender)	SAP ERP system
Interface	CREMAS.CREMAS05

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Namespace	urn:sap-com:document:sap:idoc:messages
Sender Communication Channel	CT_Generic_Sending_HTTP_Chan-nel_For_ERP_Outbound_IDOCs

2. Choose *Copy Object*.
3. In the *Communication Component* field for the sender, choose the SAP ERP system from the value help. This is the SAP ERP system to which you want to connect.
4. In the *Add to Scenario* field, choose the configuration scenario from the value help
5. Choose *Copy*. Ignore any message to specify a communication channel, or any message that the communication channel does not match the sender.
6. Switch to edit mode.
7. Choose the sender communication channel that you created in *Copy Communication Channel* above.
8. Save your entries.
9. Repeat steps 2 to 8 for each SAP ERP system that you want to integrate with SAP Sourcing.

Copy Receiver Agreement

1. In the configuration scenario, search for the receiver agreement shown in the following table:

Table 51: Copy/Receiver Agreement

Field	Value
Communication Component (Sender)	SAP ERP system
Communication Component (Receiver)	SAP Sourcing system
Interface	MI_IB_Supplier
Namespace	http://sap.com/xi/ESourcing/SRMJS/OP
Receiver Communication Channe	CT_Supplier_Receiving_File_Channel_For_ES

2. Choose *Copy Object*.
3. In the Communication Component field for the sender, choose the SAP ERP system from the value help. This is the SAP ERP system to which you want to connect.
4. In the *Add to Scenario* field, choose the configuration scenario from the value help.n
5. Choose *Copy*.
6. Repeat steps 2 to 5 for each SAP ERP system that you want to integrate with SAP Sourcing.

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4.3.3.8.3 Configure Vendor Master Integration Scenario and Communication Channel for Each ERP System (NetWeaver PI 7.3 AEX)

Procedure

> **Note**
>
> This section describes how to configure send supplier communication channels and integrated scenarios if you are using **SAP NetWeaver PI 7.3 AEX**

> **Note**
>
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

1. In the process integration tools (transaction `SXMB_IFR`), log into the Integration Builder and open the configuration scenario that you configured for a single SAP ERP system. This is the configuration scenario that you created in Configure Integrated Scenarios for SAP NetWeaver PI 7.3 AEX [page 27].
2. In the configuration scenario, search for the sender communication channel *CT_Generic_Sending_HTTP_AAE_Channel_For_ERP_Outbound_IDOCs*.
3. Choose*Copy Object*.
4. In the Communication Component field, choose the *SAP ERP business system* from the value help. This is the SAP ERP system that you imported from the SLD to the Integration Builder.
5. (optional) Rename the communication channel.
6. In the *Add to Scenario* field, choose the configuration scenario from the value help.
7. Choose*Copy*.
8. Save you entries.
9. In the configuration scenario, search for the Integrated Configuration shown in the following table:

   Table 52

Field	Value
Communication Component (Sender)	SAP ERP system
Interface	CREMAS.CREMAS05
Namespace	urn:sap-com:document:sap:idoc:messages

10. Choose*Copy Object*.
11. In the *Communication Component* field for the sender, choose the SAP ERP system from the value help. This is the SAP ERP system to which you want to connect.
12. Choose*Copy* .

    Ignore any error/information messages about (or similar to) the communication channel not matching the sender.
13. Switch to *Edit mode*.
14. In the *Inbound Processing* tab, choose the sender communication channel that you created in Step 3.
15. Save your changes.

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16. Repeat all of the steps in this procedure for each SAP ERP system that you want to integrate with SAP Sourcing.

4.3.3.9 Configure Supplier Master from SAP Sourcing to Multiple SAP ERP systems

4.3.3.9.1 Configure Send Supplier for Each SAP ERP System

> **Note**
> An SAP ERP expert must perform this procedure.

Configure the following. For each SAP ERP system, do the following:

1. Initial Load and Ongoing Delta Vendors from SAP ERP to SAP Sourc [page 51]
2. Maintain Partner Profile for Inbound Vendor [page 64]
3. Maintain Vendor Account Group in ERP Customization [page 64]
4. Activate Business Configuration Set in SAP ERP [page 65]

4.3.3.9.2 Configure Send Supplier Integration Scenario and Communication Channel for Each SAP ERP System

> **Note**
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

> **Note**
> Skip this section if you are using **SAP NetWeaver PI 7.3 AEX**.

In the process integration tools (transaction SXMB_IFR), log on to the Integration Builder and then open the configuration scenario that you configured for a single SAP ERP system. This is the configuration scenario that you created in Configure Integration Scenarios.

Procedure

Modify Receiver Determination

1. In the configuration scenario, search for the receiver determination shown in the following table.

   Table 53

Field	Value
Communication Component (Sender)	SAP Sourcing system

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Interface	MI_OB_Supplier
Namespace	http://sap.com/xi/Esourcing/SRMJS/OP

2. In the *Configured Receivers* section, select the dropdown and choose *Insert Receiver* to add an SAP ERP business system.
3. In the *Communication Component* field for the sender, choose the SAP ERP business system from the value help.
4. Open the value help for the *Condition* field.
5. In the dialog box that appears, open the value help for the *Left Operand* field.
6. Select XPath and make the following entry: `/p1:MT_Supplier_Export/fcidataexport/objects/object/fields/LOG_SYS`
7. In the *Right Operand* field, enter the logical system of the SAP ERP system, as specified in the SLD.
8. Save your entries.
9. Repeat steps 2 to 8 for each SAP ERP system that you want to integrate with SAP Sourcing.

Copy Interface Determination

1. In the configuration scenario, search for the interface determination shown in the following table.

   Table 54

Field	Value
Communication Component (Sender)	SAP Sourcing system
Interface	MI_OB_Supplier
Namespace	http://sap.com/xi/Esourcing/SRMJS/OP
Communication Component (Receiver)	SAP ERP system

2. Choose *Copy Object*.
3. In the *Communication Component* field, choose the SAP ERP business system from the value help. This is the SAP ERP system to which you want to connect.
4. In the *Add to Scenario* field, choose the configuration scenario from the value help.
5. Choose *Copy*.
6. Repeat steps 2 to 5 for each SAP ERP system that you want to integrate with SAP Sourcing.

Copy Communication Channel

1. In the configuration scenario, search for the receiver communication channel `CT_Generic_Receiving_IDOC_Channel_For_ERP_Inbound_IDOCs`.

   > **Note**
   > You may have renamed this communication channel.

2. Choose *Copy Object*.
3. In the Communication Component field, choose the SAP ERP business system from the value help. This is the SAP ERP system that you imported from the SLD to the Integration Builder.
4. If you wish, rename the communication channel.
5. Choose *Copy*.

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6. Switch to edit mode.
7. Maintain the RFC destination and port as shown in the following table.

Table 55

Field	Value
RFC Destination	Enter the SAP ERP logical system.
Port	SAP <system ID of SAP ERP system>

8. Save your entries.
9. Repeat steps 2 to 8 for each SAP ERP system that you want to integrate with SAP Sourcing.

Copy Receiver Agreement

1. In the configuration scenario, search for the sender agreement shown in the following table.

Table 56

Field	**Value**
Communication Component (Sender)	SAPSourcing system
Communication Component (Receiver)	SAP ERP system
Interface	CREMAS.CREMAS05
Namespace	urn:sap-com:document:sap:idoc:messages
Receiver Communication Channel	CT_Generic_Receiving_IDOC_Channel_For_ERP_Inbound_IDOCs

2. Choose *Copy Object*.
3. In the *Communication Component* field for the receiver, choose the SAP ERP business system from the value help. This is the SAP ERP system to which you want to connect.
4. In the *Add to Scenario* field, choose the configuration scenario from the value help
5. Choose *Copy*. Ignore any message to specify a communication channel, or any message that the communication channel does not match the receiver.
6. Switch to edit mode.
7. Choose the receiver communication channel that you created in *Copy Communication Channel* above.
8. Save your entries.
9. Repeat steps 2 to 8 for each SAP ERP system that you want to integrate with SAP Sourcing.

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4.3.3.9.3 Configure Send Supplier Integration Scenario and Communication Channel for Each SAP ERP System (NetWeaver PI 7.3 AEX)

Procedure

> **Note**
>
> This section describes how to configure send supplier communication channels and integrated scenarios if you are using **SAP NetWeaver PI 7.3 AEX**

1. In the configuration scenario, search for the receiver communication channel *CT_Generic_Receiving_IDOC_AAE_Channel_For_ERP_Inbound_IDOCs.*
2. Choose*Copy Object*.
3. In the Communication Component field, choose the *SAP ERP business system* from the value help. This is the SAP ERP system that you imported from the SLD to the Integration Builder.
4. (optional) Rename the communication channel.
5. Choose *Copy* and switch to *Edit Mode*.
6. Configure the RFC destination as shown below:

   Table 57

Parameter	Value	Example
RFC Client Parameters	Use the default value.	
Destination	RFC Destination defined in PI NWA	QV5CLNT340
Interface Version	Interface Version 4.0 or above	
SAP Release	730	

7. Click *Save*.
8. In the configuration scenario, search for the following integrated configuration:
   - Communication Component (Sender): SAP Sourcing system
   - Interface: MI_OB_Supplier
   - Namespace: http://sap.com/xi/Esourcing/SRMJS
9. In the Receiver tab (Configured Receivers section), choose*Insert Receiver* from the pull-down menu to add an SAP ERP business system.
10. Open the value help for the *Condition* field.
11. In the dialog box that appears, open the value help for the *Left Operand* field.
12. Select *XPath* and add the following entry:

    ```
    /p1:MT_Supplier_Export/fcidataexport/objects/object/fields/LOG_SYS
    ```

13. .In the *Right Operand* field, enter the logical system of the SAP ERP system, as specified in the SLD
14. Save your changes.
15. In the *Receiver Interfaces* tab, select the newly-created receiver and select the *IM_Supplier_To_Vendor* operation mapping.

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16. In the Outbound Processing tab, select the newly-created receiver/receiver interface and select the communication channel that you copied in Step 2.
17. Save your changes.
18. Repeat all of the steps in this procedure for each SAP ERP system that you want to integrate with SAP Sourcing.

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5 Business Process Integration

The standard integration of SAP Sourcing with SAP ERP supports the following business processes:

- SAP ERP RFQ to SAP Sourcing RFP
- SAP Sourcing RFP Award to SAP ERP Purchase Order
- SAP Sourcing RFP Award to SAP ERP Outline Agreement
- SAP Sourcing Master Agreement to SAP ERP Outline Agreement

> **Note**
>
> This solution uses synchronous HTTP requests to transfer data from SAP Sourcing to SAP ERP. It is not intended for use in scenarios that include large volume data transfers. For example, Master Agreements and RFx documents containing significantly more than 1000 line items are examples of large volume data transfers published to SAP ERP.

5.1 Maintain Customizing Data for Business Document Integration

5.1.1 Create Transaction Types for SAP ERP

> **Note**
>
> An SAP ERP expert must perform this procedure in collaboration with an SAP Sourcing expert.

> **Note**
>
> An SAP ERP expert must perform this procedure in collaboration with an SAP Sourcing expert.

For purchase orders, contracts, and scheduling agreements to be created correctly, maintain their transaction types identically in SAP ERP and in SAP Sourcing.

Procedure

Purchase Order

> **Note**
>
> Purchase Order transaction type is relevant for Publish RFx Award to ERP Purchase Order.

1. In Customizing for Materials Management (transaction SPRO), select *SAP Reference IMG* > *Materials Management* > *Purchasing* > *Purchase Order* > *Define Document Type*. Note the entry for purchase order in the Type column.

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2. In SAP Sourcing, define the transaction type. Do the following:
    1. Log on to SAP Sourcing as a user with permission to create transaction type objects.
    2. Choose *Setup*.
    3. On the *Master Data* tab, locate the *Master Data* section and select *Transaction Type*.
    4. Select *New*.
    5. Create the transaction type as shown in the following table.

Table 58

Field	Value
Replicated	Select the Checkbox.
ID	Enter the value from the Type column in SAP ERP. This is the value that you noted down in step 1 above.
Business System	Enter the logical system name of the SAP ERP system. This is the value that you noted down in step 1 of Define Business System for SAP ERP in SAP Sourcing [page 17].
Name Description	Choose the desired language from the dropdown and enter a name and description in that language.
Transaction Type Object	Choose Purchase Order

Contract

> **Note**
>
> Contract transaction type is relevant for Publish RFx Award/Agreement to ERP Contract .

1. In Customizing for Materials Management (transaction SPRO), select *SAP Reference IMG* > *Materials Management* > *Contract* > *Define Document Types*. Note the entry for contract in the Type column.
2. In SAP Sourcing, define the transaction type. Do the following:
    1. Log on to SAP Sourcing as a user with permission to create transaction type objects.
    2. Choose *Setup*.
    3. On the *Master Data* tab, locate the *Master Data* section and select *Transaction Type*.
    4. Select *New*.
    5. Create the transaction type as shown in the following table.

Table 59

Field	Value
Replicated	Select the Checkbox.
ID	Enter the Value from the Type column in SAP ERP. This is the Value that you noted down in step 1 above.
Business System	Enter the logical system name of the SAP ERP system. This is the Value that you noted down in step 1 of Define Business System for SAP ERP in SAP Sourcing [page 17].

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Field	Value
Name Description	Choose the desired language from the dropdown and enter a name and description in that language.
Transaction Type Object	Choose Contract. You can choose to create either a Quantity or Value Contract.

Scheduling Agreement

> **Note**
>
> Scheduling Agreement transaction type is relevant for Publish RFx Award/Agreement to ERP Scheduling Agreement .

1. In Customizing for Materials Management (transaction SPRO), select *SAP Reference IMG* > *Materials Management* > *Scheduling Agreement* > *Define Document Types*. Note the entry for scheduling agreement in the Type column.
2. In SAP Sourcing, define the transaction type. Do the following:
    1. Log on to SAP Sourcing as a user with permission to create transaction type objects.
    2. Choose *Setup*.
    3. On the *Master Data* tab, locate the *Master Data* section and select *Transaction Type*.
    4. Select *New*.
    5. Create the transaction type as shown in the following table.

Table 60

Field	Value
Replicated	Select the Checkbox.
ID	Enter the value from the Type column in SAP ERP. This is the value that you noted down in step 1 above.
Business System	Enter the logical system name of the SAP ERP system. This is the value that you noted down in step 1 of Define Business System for SAP ERP in SAP Sourcing [page 17].
Name Description	Choose the desired language from the drop-down and enter a name and description in that language.
Transaction Type Object	Choose Scheduling Agreement.

5.1.2 Create Price Conditions in SAP Sourcing

> **Note**
>
> An SAP ERP expert must perform this procedure in collaboration with an SAP Sourcing expert.

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> **Note**
>
> The steps in this section are necessary only if you do not extract the price condition types from SAP ERP as described in Extract Customizing Data from SAP ERP [page 29].

Prerequisites

The corresponding price condition types exist in SAP ERP.

Procedure

> **Note**
>
> This step is necessary only for SAP Sourcing RFP Award to SAP ERP Outline Agreement [page 113] and Configure SAP Sourcing Agreement to SAP ERP Outline Agreement [page 117].

1. In Customizing for Materials Management (transaction SPRO), select *SAP Reference IMG* > *Materials Management* > *Purchasing* > *Conditions* > *Define Price Determination Process* > *Define Condition Types* > *Define Condition*, and note the values that you will add to SAP Sourcing.
2. Choose *Setup*.
3. On the *Master Data* tab, find the *Master Data* section and click *Price Conditions*.
4. Choose *New*.
5. Create the new price condition. Information is provided for certain fields in the following table. The values for the other fields depend on your requirements.

   Table 61: Fields and Values for Price Conditions

Field	Value
Replicated	Select the Checkbox.
ID	Enter an ID, for example, **FROO**. It must be unique in SAP Sourcing, but can be the same as the corresponding price condition type ID in SAP ERP.
Name	Choose the desired language from the dropdown and enter a name and description in that language. **Example** You can use the description to explain to your suppliers how the price condition is used in the RFx process.
Description	
Condition Class	Enter the value for the Cond class in the SAP ERP system. This is located in the *Control Data 1* section of the *Condition Types Details*.
Scale Check	Enter the value for Check Value in the SAP ERP system. This is located in the *Scales* section of the *Condition Types Details*.

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Field	Value
Scale Base	Enter the value for Scale Basis in the SAP ERP system. This is located in the *Scales* section of the *Condition Types Details*.
Scale Type	Enter the value for Scale Type in the SAP ERP system. This is located in the *Scales* section of the *Condition Types Details*.
Business System	If you imported the price conditions by uploading an XML file, the logical system is the SAP ERP system from which you imported the price conditions. If you create the price condition manually, choose the logical system from the value help.

6. Save your entries and create the next price condition.
7. Assign the price conditions to the integrated document type.

Result

You have completed the necessary master data configuration for integrating the price conditions. The next step is to add the new price conditions to the integrated document type. For more information, see Configure Master Agreement Type to Transfer Pricing Conditions [page 120] and Configure RFP Award to Transfer Price Conditions [page 114].

5.1.3 Assign Price Conditions in SAP Sourcing to Price Condition Types in SAP ERP

> **Note**
>
> An SAP Sourcing expert must perform this procedure.

This step is necessary only if you do not extract the price condition types from SAP ERP as described in Extract Customizing Data from SAP ERP [page 29]. In addition, it is necessary only if the names of your price condition types are different in SAP ERP and SAP Sourcing. For example, it is necessary if the name of the price condition in SAP Sourcing is `RB00`, but the name of the price condition type in your calculation schema in SAP ERP is `ZB00`.

This step is necessary only for SAP Sourcing RFP Award to SAP ERP Outline Agreement [page 113] and Configure SAP Sourcing Agreement to SAP ERP Outline Agreement [page 117].

Procedure

Assign the price condition in SAP Sourcing to the corresponding price condition type in the calculation schema in SAP ERP. You do this in *E-Sourcing* > *Assign Condition Types* > *SPRO* > *Customizing for Integration with Other mySAP.com Components*.

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5.1.4 Verify Price Conditions for SAP ERP

> **Note**
>
> An SAP ERP expert must perform this procedure in collaboration with an SAP Sourcing expert.

The price conditions that are used in business documents in SAP Sourcing must match those in SAP ERP (for example, FR00 in SAP Sourcing and FR00 in SAP ERP), or must be assigned to those in SAP ERP (for example, ABCD in SAP Sourcing is assigned to FR00 in SAP ERP). Also, you must maintain condition customizing identically in SAP Sourcing and SAP ERP for the integration to work correctly.

Procedure

1. Check the data in SAP Sourcing.

   Log on to SAP Sourcing as a user with permission to access price conditions. Choose *Setup*. On the *Master Data* tab, find the *Master Data* section and click *Pricing Conditions*.
2. In Customizing for *Materials Management* (transaction SPRO) in SAP ERP, choose *Purchasing* > *Conditions* > *Define Price Determination Process*.

   Check the existing condition types (price conditions) with your SAP ERP MM expert, create new price conditions, or both.
3. In Customizing for *Materials Management* (transaction SPRO) in SAP ERP, choose *SAP Customizing in Implementation Guide* > *Integration with Other SAP Components* > *SAP Sourcing* > *Assign Condition Types*.
4. Verify that all price conditions used in business documents in SAP Sourcing are available in SAP ERP, or are assigned to pricing condition types in SAP ERP.

More Information

Create Pricing Conditions in SAP Sourcing [page 83]

Assign Pricing Conditions in SAP Sourcing to Pricing Condition Types in SAP ERP [page 85]

5.1.5 Create Text IDs for SAP ERP

> **Note**
>
> An SAP ERP expert must perform this procedure in collaboration with an SAP Sourcing expert.

In this step, header texts and item texts to be used in SAP Sourcing business documents are configured. The text IDs created in SAP Sourcing must match the corresponding header text ID and item text ID in SAP ERP.

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Procedure

Text ID: Header Texts

1. In Customizing for *Materials Management* (transaction SPRO) in SAP ERP, choose ▶ *Purchasing* ▶ *RFQ/Quotation* ▶ *Texts for RFQs/Quotations* ▶ *Define Text Types for Header Texts* ▶.

   Note the entry for Header Text ID in the column *Seq. No*. and Description in the column *Meaning*.
2. Define the text IDs in SAP Sourcing that are used in RFQs. You do this as follows:
   1. Log on to SAP Sourcing as a user with permission to create text IDs.
   2. Choose *Setup*.
   3. On the *Master Data* tab, find the Master Data section and click Text Id.
   4. Choose *New*.
   5. Create the text ID as shown in the following table:

      Table 62

Field	Value
Replicated	Select the Checkbox.
ID	Enter the value from the Seq.No. column in SAP ERP . This is the value that you noted in step 1 above.
Business System	Enter the logical system name of the SAP ERP system. This is the value that you noted in step 1 of Define Business System.
Text Id Type	HEADER
Name Description	Choose the desired language from the menu. Enter the value from the Meaning Column in SAP ERP that you noted in step 1.

3. Verify in the SAP ERP system that the text ID you created in step 2 is also available for the following documents:
   - Purchase order
   - Contract
   - Scheduling agreement

Text ID: Item Texts

1. In Customizing for *Materials Management* (transaction SPRO) in SAP ERP, choose ▶ *Purchasing* ▶ *RFQ/Quotation* ▶ *Texts for RFQs/Quotations* ▶ *Define Text Types for Item Texts* ▶.
2. Define the text IDs in SAP Sourcing that are used in RFQs. You do this as follows:
   1. Log on to SAP Sourcing as the enterprise user or as a user with system administration rights.
   2. Choose *Setup*.
   3. On the *Master Data* tab, find the Master Data section and click Text Id .
   4. Choose *New*.
   5. Create the text ID as shown in the following table.

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Table 63

Field	Value
Replicated	Select the Checkbox.
ID	Enter the value from the Seq.No. column in SAP ERP . This is the value that you noted down in step 1 above.
Business System	Enter the logical system name of the SAP ERP system. This is the value that you noted down in step 1 of Define Busines System [page 62].
Text Id Type	ITEM
Name Description	Choose the desired language from the menu . Enter the value from the Meaning Column in SAP ERP that you noted in step 1..

3. Verify in the SAP ERP system that the text ID you created in step 2 is also available for the following documents:
   - Purchase order
   - Contract
   - Scheduling agreement

Note

For the following documents, the item text IDs in Customizing for *Integration with Other mySAP.com Components* (transaction SPRO) under *E-Sourcing* > *Settings for E-Sourcing Integration* must not be used in SAP Sourcing. Otherwise, the document header/item text or document number from SAP Sourcing will be missing in the document texts in SAP ERP.

- RFQ
- Purchase order
- Contract
- Scheduling agreement

5.1.6 Block Integrated Fields from User Changes in SAP ERP

Procedure

Note

An SAP ERP expert must perform this procedure.

This step is necessary only for SAP Sourcing RFP Award to SAP ERP Outline Agreement [page 113] and Configure SAP Sourcing Agreement to SAP ERP Outline Agreement [page 117].

You must block integrated fields from user changes in SAP ERP in one of the following ways:

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- Importing the field selection keys `ESSA` and `ESCO` with their related settings to your system using a Business Configuration (BC) Set. You do this in transaction `SCPR20` by entering BC Set **`BBP_ES_CONTRACT_FIELD_CONTROL`** and activating it.
- Creating the field selection keys `ESSA` and `ESCO` manually by carrying out the following steps:
  1. In Customizing for *Materials Management* (transaction `SPRO`), choose *Purchasing* > *Scheduling Agreement* > *Define Screen Layout at Document Level*.
  2. Select the field selection key `ESSA` and choose *Details*.
  3. Set the fields in the following table to *Display*.

     Table 64: Field Selection Groups and Fields

Field Selection Group	Fields
Basic Data, Item	Plant, Short Text, Material Group, Material Description, Manufacturer Part Number
Terms of Delivery and Payment	Terms of Payment (Days, Percent), Terms of Payment, Incoterms Part 1, Currency, Incoterms Part 2, Incoterms Item, Incoterms Part 2 Item
Administrative Data, Header	Target Value, Purchasing Group, Start of Validity Period, Validity Period End
Quantity And Price	Target Quantity, Unit of Measure, Price And Price Unit, Price Date, Order Price Unit (Purchasing), Condition Group
Reference Data, Item	Purchase Requisition, Info Record, Request for Quotation, Vendor Material, Vendor Number
Administrative Data, Item	Deletion Indicator
Delivery Monitoring	Planned Delivery Time
Enjoy Fields	Vendor, Supplying Plant

  4. In Customizing for *Materials Management*, choose *Purchasing* > *Contract* > *Define Screen Layout at Document Level*.
  5. Select the field selection key `ESCO` and choose *Details*.
  6. Repeat step 3 above.

5.1.7 Create SAP ERP Integrated Document Type for RFx

> **Note**
>
> Skip this section if you are not implementing RFx scenarios.

To successfully integrate SAP ERP with SAP Sourcing, you must create SAP ERP integrated document types in the system. There are two ways to do this:

- Add SAP ERP integrated document types and import them into the workbook
- Manually create the SAP ERP integrated document type in the system

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> **Note**
>
> An SAP Sourcing expert must perform these procedures.

Procedure

Add SAP ERP integrated document types to the workbook:

1. Open the workbook and go to the RFx Types tab to add the document type values. The table below lists examples of SAP ERP integrated document types for RFx:

   > **Note**
   >
   > The "*" indicates that the field is required.

   Table 65: Examples of ERP Integrated Document Types for RFx

Field	Value
Display_name*	ERP_RFP
DOCTYPE_DESCRIPTION*	This document type is used to solicit bids on goods and services in conjunction with ERP.
DOCTYPE_DESCRIPTION_LANGUAGE	
SUPPORT_DISCUSSION	TRUE
SUPPORT_CHAT	TRUE
SUPPORT_ATTACHMENT	TRUE
SUPPORT_ACCOUNTING	TRUE
REQUIRES_INT_CAT	FALSE
NUMTBL_OBJECT_CLASS*	rfx.RFXDoc
NUMTBL_OBJECT_TYPE*	ERP-RFP
RFX_FEATURES*	GENERAL_CRITERIA+LINE_ITEM
SCORING_ENABLED	FALSE
ROUND_TYPE	
VIEW_AFTER_BIDDING	FALSE
SKIP_PRELIM_PROP_PHASE	FALSE
DEFAULT_RESPONSE_SORT	TotalCost
PHASE_TRANSITION_TYPE	AllPhases
SHOW_RANK	FALSE
RANK_TYPE	ByQuartile
RFX_EMAIL	MSG_EVENT_TERMS_VIEWED MSG_VENDOR_TO_RESPOND

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Field	Value
	MSG_INVITE_SENT MSG_INVITE_NEW_ROUND MSG_RETRACT_VENDOR MSG_RFP_CANCEL MSG_RFX_CLOSE MSG_APPROVAL_PENDING MSG_APPROVAL_RETRACT MSG_APPROVALS_COMPLETE MSG_PROPOSAL_FIRM MSG_PROPOSAL_IN_PROGRESS MSG_PROPOSAL_PRELIM MSG_PROPOSAL_DECLINED MSG_PROPOSAL_VIEWED MSG_VENDOR_RECEIPT MSG_VENDOR_AWARD MSG_RFX_UNRETRACT
SEND_INTENTION_TO_RESPOND	TRUE
ENABLE_MULTIROUND	TRUE
ORDER_CODE*	1
ALLOW_PROP_DUPLICATE	TRUE
AVAILABLE_FOR_RFQUICK	TRUE
ENABLE_MULTI_CURRENCY	FALSE
PUBLISH_TO_VENDORS	FALSE
CREATE_DEFAULT_LI_GROUP	TRUE
DEFAULT_LI_GROUP_NAME_ID*	rfx$rfx.rfxtype.default_li_group.display_name
CREATE_DEFAULT_GROUP	TRUE
DEFAULT_GROUP_NAME_ID*	doccommon$ont.default_group.display_name
BUY_QUERY_UNIT	FCI-RFxLineItemExport
BUY_QUERY_COMP	FCI-RFxLineItemExportPriceComps
BUY_QUERY_TIER	FCI-RFxLineItemExportTieredPrice
SELL_QUERY_UNIT	FCI-ProposalLineItemExport
SELL_QUERY_COMP	FCI-ProposalLineItemExportPriceComps
SELL_QUERY_TIER	FCI-ProposalLineItemQtyBrkExport
INTEGRATED_SYSTEM*	1
USE_EXTERNAL_VALIDATION*	TRUE

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Field	Value
DEFT_HDR_TXT_ID	Enter the header text id that was created earlier in your system. For example, enter ‘01’.
DEFT_LI_TXT_ID	Enter an item text id that was created earlier in your system. For example, enter ‘01’.
PRICING_CONDN*	At a minimum, enter one price condition for material, and another for service, which were extracted from SAP ERP. Enter values in this format:<name of condition>@<id of business system the condition was extracted from>@<MATERIAL or SERVICE>. For example, enter ‘PB00@SAPERP1@MATERIAL;PRS3@SAPERP1@SERVICE’.

Result

See Verify SAP ERP Integrated Document Type for RFx [page 92] for information about manually creating SAP ERP document types in the system.

5.1.8 Verify SAP ERP Integrated Document Type for RFx

Procedure

> **Note**
> Skip this section if you are not implementing RFx scenarios.

> **Note**
> An SAP Sourcing expert must perform this procedure.

1. Log on to SAP Sourcing with any user that has access to this *RFx Types*.
2. Choose *Setup*.
3. On the *Document Setup* tab, find the RFx section and choose *RFx Types*.
4. Choose the integrated document type for *System Type ERP*.
5. On the *Integration* tab, verify that values are entered for the attributes in the following table. The text IDs must exist in SAP Sourcing and in SAP ERP.

Table 66: Integrated Document Type Attributes and Text IDs for RFx

Attribute	Text ID
Default Header Text	Verify the value for *Text ID* that you specified in Create Text IDs for SAP ERP [page 86].

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Attribute	Text ID
Default Line Item Text	Verify the value for *Text ID* that you specified in Create Text IDs for SAP ERP [page 86].

Verify that pricing conditions are assigned to the integrated document type; for more information, see Verify Pricing Conditions [page 86].

Recommendation

Leave the *Use ERP Validation* checkbox selected. If this checkbox is selected, several validations are carried out when you change the phase to *Open for Response* and when the user publishes the RFP award to SAP ERP. This enables you to correct any errors that might otherwise prevent the purchase order or outline agreement from being created in SAP ERP.

5.1.9 Create SAP ERP Integrated Document Types for Contracts

Note

Skip this section if you are not implementing Contract scenarios.

To successfully integrate SAP ERP with SAP Sourcing, you must create SAP ERP integrated document types in the system. There are two ways to do this:

- Add SAP ERP integrated document types and import them into the workbook
- Manually create the SAP ERP integrated document type in the system

Note

An SAP Sourcing expert must perform this procedure.

Procedure

Add SAP ERP integrated document types to the workbook:

1. Open the *Sourcing Enterprise Deployment Workbook* and go to the *Master Agreement Types* tab to add the document type values. The table below lists examples of SAP ERP integrated document types for Contracts:

   Table 67: Examples of ERP Integrated Document Types for Contracts

Parameter	Value
DISPLAY_NAM	ERP Integrated Agreement
DOCTYPE_DESCRIPTION	Use this agreement type when replicating the Agreement to a backend ERP system.
DOCTYPE_DESCRIPTION_LANGUAGE	
SUPPORT_DISCUSSION	TRUE

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Parameter	Value
SUPPORT_CHAT	TRUE
SUPPORT ATTACHMENT	TRUE
SUPPORT_ACCOUNTING	TRUE
REQUIRES_INT_CAT	FALSE
ALLOW_DUPLICATION	TRUE
PERPETUAL_TERM	FALSE
BUYER_SEARCHABLE	
VENDOR_VISIBLE	
INTEGRATED_SYSTEM	2
CONTRACT_FEATURES	AGREEMENTS+TERMS+LINE_ITEMS
AGREEMENT_FEATURES	TERMS+LINE_ITEMS
VALUE_METRIC_FEATURES	
PERF_METRIC_FEATURES	
METRIC_TYPE	AGREEMENT
SCHEDULE_WORK_DAYS	
CREATE_DEFAULT_LI_GROUP	TRUE
DEFAULT_LI_GROUP_NAME_ID	contracts $contracts.contracttype.default_li_group.display_name
TRANSACTION_TYPE	CCTR
TRANS_TYPE_OBJ	CONTRACT
DEFT_HDR_TXT_ID	ETXT
DEFT_LI_TXT_ID	ETXT
USE_EXTERNAL_VALIDATION	TRUE
PRICING_CONDN	01CT@SRM@MATERIAL;01CT@SRM@SERVICE

5.1.10 Verify SAP ERP Integrated Document Type for Contract

Prerequisites

An SAP Sourcing expert must perform this procedure.

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> **Note**
>
> Skip this section if you are not implementing Contract scenarios.

Procedure

1. Log on to SAP Sourcing with any user that has access to this object.
2. Choose *Setup*.
3. On the *Document Setup* tab, find the Agreements section and click *Master Agreement Types*.
4. Click the ERP integrated document type.
5. On the *Type* tab, verify that the value of integrated system type is ERP.
6. On the *Integration Details* tab, verify that values are entered for the attributes in the following table. They must exist in SAP Sourcing and in SAP ERP; for more information, see Master Data Integration [page 28].

Table 68: Integrated Document Type Attributes and Text IDs for RFx

Attribute	Text ID
Default Header Text	Verify the value for *Text ID* that you specified in Create Text IDs for SAP ERP [page 86].
Default Line Item Text	Verify the value for *Text ID* that you specified in Create Text IDs for SAP ERP [page 86].
Default Transaction Type	Verify the value for *Transaction Type* that you specified in Create Transaction Types for SAP ERP [page 81].

> **Note**
>
> Verify that price conditions are assigned to the SAP ERP integrated document type; for more information, see Verify Price Conditions for SAP ERP [page 86].

> **Recommendation**
>
> SAP recommends keeping the *Use External Validation* checkbox selected. If this checkbox is selected, several validations are carried out when the user publishes the ERP master agreement or subagreement to SAP ERP. This enables the user to correct any errors that might otherwise prevent the contract from being created in SAP ERP.

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5.2 Check RFC Connection Between SAP NetWeaver PI and SAP ERP

5.2.1 Configure Integration Scenario to Check RFC Connection between SAP NetWeaver PI and SAP ERP

Prerequisites

Basic Configuration in SAP NetWeaver Process Integration [page 21]

Procedure

> **Note**
>
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

> **Note**
>
> Skip this section if you are using **SAP NetWeaver PI 7.3 AEX** You must manually create this item using the information inConfiguring AEX Communication Channels and Integrated Configurat [page 185].

1. In the process integration tools (transaction SXMB_IFR), log on to the Integration Directory (SAP NetWeaver PI 7.0x) or Integration Builder (SAP NetWeaver PI 7.1 or higher).
2. **SAP NetWeaver PI 7.0x**: Select the Configuration Scenario that you created in Configure Integration Scenario [page 25] and click *Edit*. From the menu, select *Configuration Scenario* > *Integration Scenario Configurator*. In *Integration Scenario Configurator*, configure the scenario for *Check RFC Connection Between SAP NetWeaver PI and SAP ERP*.

   SAP NetWeaver PI 7.1 or higher: Select the Configuration Scenario that you created in Configure Integration Scenario [page 25] and click *Edit*. From the menu on the right side of the page, select *Configuration Scenario* > *Model Configurator*. In *Model Configurator*, configure the scenario for *Check RFC Connection Between SAP NetWeaver PI and SAP ERP*.
3. **SAP NetWeaver PI 7.0x**: In the component view, double-click the connector (->) between *Send Configuration Test Request to ERP* and *Receive RFC Call of RFC_PING*.

   SAP NetWeaver PI 7.1 or higher : In the component view, click the connector (->) between .*Send Configuration Test Request to ERP* and *Receive RFC Call of RFC_PING*.
4. Repeat steps 4 to 10 of Configure Integration Scenario for Send Material Master from SAP ERP to SAP Sourcing [page 40] .

The following table shows the configuration objects that are generated for Check RFC Connection Between SAP NetWeaver Process Integration and SAP ERP. The sender business system is SAP Sourcing, the receiver business system is SAP ERP. For more information, see Configure Integration Scenario for Send Material Master [page 40].

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Table 69

Sender Interface	Sender Communication Channel Template	Receiver Interface	Receiver Communication Channel Template	Interface Mapping
MI_OB_Configuration_Test	CT_Generic_Sending_HTTP_Channel_For_ES_Documents	RFC_PING	CT_Generic_Receiving_RFC_Channel_For_ERP_Functions	IM_Configuration_Test_To_RFC_PING

5.2.2 Configure Communication Channel Between SAP NetWeaver PI and SAP ERP

Procedure

> **Note**
>
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

> **Note**
>
> Skip this section if you are using **SAP NetWeaver PI 7.3 AEX** You must manually create this item using the information inConfiguring AEX Communication Channels and Integrated Configurat [page 185].

1. In the process integration tools (transaction SXMB_IFR), log on to the Integration Directory (SAP NetWeaver PI 7.0x) or Integration Builder (SAP NetWeaver PI 7.1 or higher).
2. Under *Configuration Scenario*, open the configuration scenario that you created in Configure Integration Scenario to Check RFC Connection between S [page 96].
3. Configure the communication channels that are associated with the SAP ERP business system. Double-click a communication channel and enter the data shown in the following table for that communication channel. In the following tables, the names of the communication channels are the names in the standard system. You may have renamed the communication channels when you created them in Configure Integration Scenarios [page 25].

   Table 70: Parameters and Values for Communication Channel CT_Generic_Receiving_RFC_Channel_For_ERP_Functions

Parameter	Value
Application Server	Enter the host name of the SAP system.
System Number	Enter the system number of the SAP system.
Logon User	Enter the logon user for logging on to the SAP system.
Logon Password	Enter the logon password for logging on to the SAP system.
Logon Language	Enter the logon language of the SAP system.
Logon Client	Enter the logon client of the SAP system.

   All data has already been copied from the template for the following communication channel: CT_Generic_Sending_HTTP_Channel_For_ES_Documents.
4. Activate all configuration objects and the configuration scenario as follows:

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1. Expand the change lists on the *Change Lists* tab.
2. Right-click your change list and choose *Activate*.
3. In the dialog box that appears, choose *Activate*.

> **Note**
>
> Most objects are in your change list — but some are in the standard change list. Activate these objects too. Activate the objects in the standard change list before you activate objects in your change list. This activates:
>
> - communication channel
> - receiver agreement
> - sender agreement
> - configuration scenario

More Information

- *Configuring AEX Communication Channels* [external document]

5.3 Configure SAP ERP RFQ to SAP Sourcing RFP

> **Note**
>
> You must complete the steps in Create SAP ERP Integrated Document Type for RFx [page 89] before performing the procedures in this section.

For special points to consider when integrating SAP ERP and SAP Sourcing, see SAP Note 1653944 .

In the following figure, an RFQ is sent from SAP ERP, triggering the creation of an RFP in SAP Sourcing. A receipt containing the RFP ID is sent back from SAP Sourcing. The transfer of files from SAP NetWeaver Process Integration (SAP NetWeaver PI) to SAP Sourcing, or vice versa, can be achieved either by FTP server or by creating a shared directory on the SAP NetWeaver PI server.

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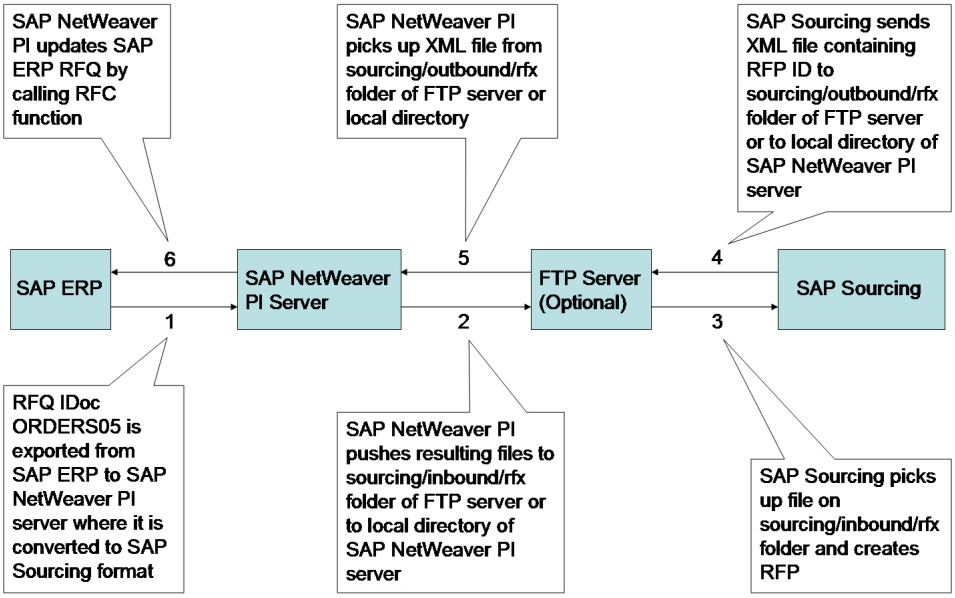

Figure 4: Integration Architecture for SAP ERP RFQ to SAP Sourcing RFP

For more information, see:

-
- Mapping of SAP ERP RFQ to SAP Sourcing RFP [page 143]
- Troubleshooting [page 124]

5.3.1 Configure IDoc for RFQ

Procedure

> **Note**
>
> An SAP ERP expert must perform this procedure.

Carry out the following steps in SAP ERP.

1. In transaction `SM59`, set up the SAP NetWeaver Process Integration (SAP NetWeaver PI) hub as the ABAP RFC destination.

   > **Note**
   >
   > If you are using **SAP NetWeaver PI 7.3 AEX**, select *TCP/IP* in transaction `SM59` and choose *Create*. Then, specify the following information:

   Table 71

Field	Value	Example
RFC Destination	XI_IDOC_DEFAULT_DESTINATION_*SID of ERP*	XI_IDOC_DEFAULT_DESTINATION_QV6

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Field	Value	Example
Connection Type	T	
Description	TCP/IP Connection to SAP Net Weaver PI System for RFQ IDoc.	
Activation Type	Select *Registered Server Program*.	
Program ID	Specify the PI NWA Server Program ID.	XI_IDOC_DEFAULT_PID
Gateway Host	Specify the SAP ERP server.	qv6main.sap.com
Gateway Service	Specify the SAP Gateway Service.	sapgw50
Communication Type with Target System	Select *Unicode*.	

2. In transaction `WE21`, define a transactional RFC port for the RFC, using exactly the same name as the RFC that you created in step 1.
3. In transaction `WE20`, select the partner profile you created in step Maintain Partner Profile for Materials Transfer [page 38] from SAP ERP to SAP Sourcing, and choose *Edit*.
    1. Add outbound parameters as shown in the following table:

        Table 72: Fields and Values for Outbound Parameters

Field	Value
Partner Role	LS
Partner Type	LS
Message Type	REQOTE

    2. On the *Outbound Options* tab, maintain your data as shown in the following table:

        Table 73: Fields and Values for Outbound Options

Field	Value
Receiver Port	Enter the port that you created in step 2
Packet Size	1
Transfer IDoc Immediately	Select this checkbox
Basic Type	ORDERS05

    3. On the *Message Control* tab, maintain your data as shown in the following table:

        Table 74: Fields and Values for Message Control

Field	Value
Application	EA
Message Type	NEU
Process Code	ME12

    4. Click *Save*.

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5.3.2 Configure RFQ Output

Procedure

> **Note**
>
> An SAP ERP expert must perform this procedure.

Carry out the following steps in SAP ERP.

1. Create a pseudo vendor as described in Create a Pseudo Vendor [page 21]. If you create an RFQ with this vendor, the system automatically routes the request/RFQ data to SAP Sourcing.
2. Define the partner role *LS* (logical system) for RFQ as shown in the following table. You do this in Customizing for *Materials Management* ▸ *Purchasing* ▸ *Messages* ▸ *Output Control* ▸ *Partner Roles per Message Type* ▸ *Define Partner Roles for Request for Quotation*.

   Table 75: Fields and Values for Partner Role

Field	Value
Output Type	NEU
Message Transmission Medium	6
Partner Function	LS

3. In transaction `MN01`, configure the output control for the RFQ for each purchasing organization you want to integrated with SAP Sourcing. Use output type *NEU* and key combination *Purch. Org./Vendor for EDI*. This enables RFQs created with the supplier that you maintained in step 2 to generate IDocs and transfer them to the SAP NetWeaver Process Integration (SAP NetWeaver PI) hub. Maintain your data as shown in the following table.

   Table 76: Fields and Values for Output Control

Field	Value
Vendor	Enter the vendor that you maintained in step 2.
Partner Function	LS
Partner	Enter the SAP Sourcing logical system.
Medium	6 (EDI)
Dispatch Time	4
Language	Default

5.3.3 Configure Text ID for Storing RFP Reference in Purchase Requisition and Request for Quotation

In this step, you configure the text IDs for SAP ERP business documents that will hold the reference to SAP Sourcing line items.

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> **Note**
>
> An ERP expert must perform this procedure.

Procedure

Carry out the following steps in SAP ERP.

1. Maintain an item text type for RFQs with the description *SOURCING REF RFQ*. You do this in Customizing for *Materials Management* ▶ *Purchasing* ▶ *RFQ/Quotation* ▶ *Texts for RFQs/Quotations* ▶ *Define Text Types for Item Texts* ▶. This is used to populate SAP ERP RFQ and SAP Sourcing RFP cross-reference information in the RFQ item text.
2. In Customizing for *Integration with Other mySAP.com Components* ▶ *E-Sourcing* ▶ *Settings for E-Sourcing Integration* ▶, enter the ID of the item text type for RFQs from step 1.

   > **Note**
   >
   > The field with this ID must not be used for any other purpose in SAP ERP. Otherwise, the document header/item text or the document number from SAP Sourcing will be missing in the document text in SAP ERP.

3. Maintain a text type for purchase requisitions with the description *SOURCING REF RFP*. You do this in Customizing for *Materials Management* ▶ *Purchasing* ▶ *Purchase Requisition* ▶ *Texts for Purchase Requisitions* ▶ *Define Text Types* ▶. This is used to populate SAP ERP RFQ and SAP Sourcing RFP cross-reference information in the purchase requisition item text.
4. In Customizing for *Integration with Other mySAP.com Components* ▶ *E-Sourcing* ▶ *Settings for E-Sourcing Integration* ▶, enter the ID of the item text type for RFQs from step 3.

   > **Note**
   >
   > The field with this ID must not be used for any other purpose in SAP ERP. Otherwise, the document header/item text or the document number from SAP Sourcing will be missing in the document text in SAP ERP.

5.3.4 Configure Integration Scenario to Send RFQ from SAP ERP

Prerequisites

- Basic Configuration in SAP NetWeaver Process Integration [page 21]
- Check RFC Connection Between SAP NetWeaver PI and SAP ERP [page 96].

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Procedure

> **Note**
>
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

> **Note**
>
> Skip this section if you are using **SAP NetWeaver PI 7.3 AEX** You must manually create this item using the information inConfiguring AEX Communication Channels and Integrated Configurat [page 185].

1. In the process integration tools (transaction `SXMB_IFR`), log on to the Integration Directory (SAP NetWeaver PI 7.0x) or Integration Builder (SAP NetWeaver PI 7.1 or higher).
2. **SAP NetWeaver PI 7.0x**: Select the Configuration Scenario that you created in Configure Integration Scenario [page 25] and click *Edit*. From the menu, select *Configuration Scenario* > *Integration Scenario Configurator*. In *Integration Scenario Configurator*, configure the scenario for *Send RFQ from SAP ERP to SAP Sourcing*.

   SAP NetWeaver PI 7.1 or higher: Select the Configuration Scenario that you created in Configure Integration Scenario [page 25] and click *Edit*. From the menu on the right side of the page, select *Configuration Scenario* > *Model Configurator*. In *Model Configurator*, configure the scenario for *Send RFQ from SAP ERP to SAP Sourcing*.
3. **SAP NetWeaver PI 7.0x**: In the component view, double-click the connector (→) between Send Quotation to Partner Component and Receive RFx from ERP.

   SAP NetWeaver PI 7.1 or higher: In the component view, click the connector (→) between *Send Quotation to Partner Component* and *Receive RFx from ERP*.
4. Repeat steps 4 to 10 of Configure Integration Scenario for Send Material Master from SAP ERP to SAP Sourcing [page 40] .

The following table shows the configuration objects that are generated for Send RFQ from SAP ERP to SAP Sourcing. The sender business system is SAP ERP, the receiver business system is SAP Sourcing.

Table 77: Configuration Objects Generated for Send RFQ from SAP ERP to SAP Sourcing

Sender Interface	Sender Communication Channel	Receiver Interface	Receiver Communication Channel	Interface Mapping
REQOTE.OR- DERS05	CT_Generic_Send-ing_IDOC_Chan-nel_For_ERP_Out-bound_IDOCs	MI_IB_RFx	CT_RFx_Receiv-ing_File_Chan-nel_For_ES	IM_OR-DERS05_To_RFx

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5.3.5 Configure Communication Channel to Send RFQ from SAP ERP to SAP Sourcing

Procedure

> **Note**
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

> **Note**
> Skip this section if you are using **SAP NetWeaver PI 7.3 AEX** You must manually create this item using the information inConfiguring AEX Communication Channels and Integrated Configurat [page 185].

1. In the process integration tools (transaction SXMB_IFR), log on to the *Integration Directory* (SAP NetWeaver PI 7.0x) or Integration Builder (SAP NetWeaver PI 7.1 or higher).
2. Under *Configuration Scenario*, open the configuration scenario that you created in *Configure Integration Scenarios*.
3. Configure the communication channel that is associated with the SAP ERP business system. Double-click the communication channel `CT_RFx_Receiving_File_Channel_For_ES`and enter the data shown in the following table for that communication channel. In the following table, the name of the communication channel are the name in the standard system. You might have renamed the communication channel when you created them in Configure Integration Scenario to Send RFQ from SAP ERP to SAP S [page 102].

   Table 78: Parameters and Values for Communication Channel CT_RFx_Receiving_File_Channel_For_ES

Parameter	Value
Target Directory	Enter the path of the FTP directory.
Server	Enter the FQDN of the FTP server.
Anonymous Login	Deselect.
User Name	Enter the user name of the FTP account.
Password	Enter the password of the FTP account.

   > **Note**
   > If you want to use shared file system, seeTransport Protocol Shared File System [page 182] for information about how to configure the communication channels.

   > **Note**
   > All data has already been copied from the template for the following communication channel: `CT_Generic_Sending_IDOC_Channel_For_ERP_Outbound_IDOCs`.

4. Activate all configuration objects and the configuration scenario as follows:
   1. Expand the change lists on the *Change Lists* tab.
   2. Right-click your change list and choose *Activate*.
   3. In the dialog box that appears, choose *Activate*.
   4. Some objects are in your change list, but some are in the standard change list. Do not forget to activate these objects. Activate the objects in the standard change list before you activate objects in your change

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list. This activates the communication channel, receiver agreement, sender agreement, and configuration scenario.

More Information

See also *Configuring AEX Communication Channels* [external document].

5.3.6 Configure Integration Scenario to Send RFP Response from SAP Sourcing to SAP ERP

> **Note**
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

> **Note**
> Skip this section if you are using **SAP NetWeaver PI 7.3 AEX** You must manually create this item using the information inConfiguring AEX Communication Channels and Integrated Configurat [page 185].

Prerequisites

- Basic Configuration in SAP NetWeaver Process Integration [page 21]

Procedure

1. In the process integration tools (transaction SXMB_IFR), log on to the *Integration Directory* (SAP NetWeaver PI 7.0x) or Integration Builder (SAP NetWeaver PI 7.1 or higher).
2. **SAP NetWeaver PI 7.0x**: Select the Configuration Scenario that you created in Configure Integration Scenario [page 25] and click *Edit*. From the menu, select *Configuration Scenario* > *Integration Scenario Configurator*. In *Integration Scenario Configurator*, configure the scenario for *Send RFP Response from SAP ERP to SAP Sourcing*.

   SAP NetWeaver PI 7.1 or higher: Select the Configuration Scenario that you created in Configure Integration Scenario [page 25] and click *Edit*. From the menu on the right side of the page, select *Configuration Scenario* > *Model Configurator*. In *Model Configurator*, configure the scenario for *Send RFP Response from SAP ERP to SAP Sourcing*.
3. **SAP NetWeaver PI 7.0x**: In the component view, double-click the connector (→) between Send Response of RFx Update to ERP and Receive RFC Call of `BBP_ES_PR_RFQ_UPDATE`.

   SAP NetWeaver PI 7.1 or higher: In the component view, click the connector (→) between *Send Response of RFx Update to ERP and Receive RFC Call* of `BBP_ES_PR_RFQ_UPDATE`.
4. Repeat steps 4 to 5 of Send Material Master from SAP ERP to SAP Sourcing.
5. **SAP NetWeaver PI 7.0x**: On the Connections from the Service Assignment tab, position the cursor in the Communication Channel field for Receiver Business System Services and, in the dropdown for the

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Communication Channel field, select the communication channel that you created for receiver business system services in Check RFC Connection Between SAP NetWeaver Process Integration and SAP ERP, and choose *OK*.

SAP NetWeaver PI 7.1 or higher: On the *Connections from Component Assignment* tab, position the cursor in the *Communication Channel* field for *Receiver Business System Components* and, in the dropdown for the *Communication Channel* field, select the communication channel that you created for receiver business system components in *Configure Integration Scenario for Check RFC Connection Between SAP NetWeaver Process Integration and SAP ERP* and choose *OK*.

6. Choose *Apply*.
7. Navigate to *Settings* > *Apply Changes* > *Save Configuration Scenario*.
8. **Generate Configuration Objects**:

   SAP NetWeaver PI 7.0x: Under *Configuration Steps*, choose *Generate*.

   SAP NetWeaver PI 7.1 or higher: choose the icon with the tooltip *Create Configuration Objects*. In the dialog box that appears, select *Generation*, ensure that all three checkboxes under *Scope of Generation* are selected, select *Create New*, and then choose *Start*.

The following table shows the configuration objects that are generated for Send RFP Response from SAP Sourcing to SAP ERP. The sender business system is SAP Sourcing, the receiver business system is SAP ERP.

Table 79: Configuration Objects Generated for Send RFP Response from SAP Sourcing to SAP ERP

Sender Interface	Sender Communication Channel	Receiver Interface	Receiver Communication Channel	Interface Mapping
MI_OB_RFx_Response	CT_RFx_Response_Sending_File_Channel_For_ES	BBP_ES_PR_RFQ_UPDATE	CT_Generic_Re- ceiving_RFC_Channel_For_ERP_Functions	IM_RFx_To_PurchaseRequisition

> **Note**
>
> If you want to use shared file system, seeTransport Protocol Shared File System [page 182] for information about how to configure the communication channels.

5.3.7 Configure Communication Channel to Send RFP Response

> **Note**
>
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

> **Note**
>
> Skip this section if you are using **SAP NetWeaver PI 7.3 AEX** You must manually create this item using the information inConfiguring AEX Communication Channels and Integrated Configurat [page 185].

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Procedure

1. In the process integration tools (transaction **SXMB_IFR**), log on to the Integration Directory (SAP NetWeaver PI 7.0) or Integration Builder (SAP NetWeaver PI 7.1).
2. Under *Configuration Scenario*, open the configuration scenario that you created in Configure Integration Scenarios [page 25].
3. Configure the communication channel associated with the SAP Sourcing business system. Double-click the communication channel and enter the data shown in the following table for that communication channel.

   Caution

   In the following tables, the names of the communication channels are the names in the standard system. You may have renamed the communication channels when you created them in the Configure Integration Scenarios step.

   Table 80: Parameters and Values for Communication Channel CT_RFX_Response_Sending_File_Channel_For_ES

Parameter	Value
Source Directory	Enter the path of the FTP directory.
File Name	*rfx*.xml
Server	Enter the FTP server.
Anonymous Login	Deselect.
User Name	Enter the user name of the FTP account.
Password	Enter the password of the FTP account.
Quality of Service (This field is on the *Processing* tab.)	Exactly Once
Poll Interval (Secs) (This field is on the *Processing* tab.)	Set the poll interval according to your business requirements. However, be aware that a very short poll interval will reduce performance. **Recommendation** We recommend a poll interval of 300 seconds (5 minutes).
Processing Mode (This field is on the *Processing* tab.)	Choose *Delete*.

4. Activate all configuration objects and the configuration scenario as follows:
   1. Expand the change lists on the *Change Lists* tab.
   2. Right-click your change list and choose *Activate*.
   3. In the subsequent dialog box, choose *Activate*.
   4. Some objects are in your change list, but some are in the standard change list. Activate these objects also.

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> **Recommendation**
>
> Activate the objects in the standard change list **before** you activate objects in your change list. This activates the communication channel, receiver agreement, sender agreement, and configuration scenario.

5.3.8 Create RFx Template for SAP ERP Integration

> **Note**
>
> An SAP Sourcing expert must perform this procedure in collaboration with your ERP expert.

This template is used to create RFx that are to be imported from SAP ERP to SAP Sourcing. The minimum requirement is that the template is of an integrated document type, has at least one line item group, at least one Incoterm, and at least one pricing condition for material and one for service. All other features are optional.

Procedure

1. Log on to SAP Sourcing as a user with enough authority to create RFx templates.
2. Choose *Enterprise Sourcing* > *RFx* > *Create RFx Template*.
3. Select your integrated document type for RFx (see Create SAP ERP Integrated Document Type for RFx [page 89]) and choose *Continue*.
4. Enter a display name, for example, `RFx Template for Integration`.
5. Add users as collaborators who need to access the template.
6. On the *Line Items* tab, check that the template has at least one line item group.

   Normally, the RFx type is set up so that an RFx template created from this RFx type always has a default line item group. You can edit the default line item group in the template, replace it, or add more, but be sure to leave at least one line item group in the template.
7. Choose *Document* > *Setup*.
8. On the *Delivery Info* tab, select *Add Incoterm*, add at least one Incoterm, and choose *Save*.
9. On the *Pricing Model* tab, choose *Add Pricing Condition* to add at least one pricing condition for material and at least one pricing condition for service, then choose *Save*.
10. Save the RFx template, and then click *Done* to go back to the RFx template.

5.3.9 Maintain Integrated RFx Template in Integrated Document Configuration

Prerequisites

- Edit Integrated Document Configuration for SAP ERP Integration [page 16]

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Procedure

> **Note**
> An SAP Sourcing expert must perform this procedure.

1. Log on as an enterprise user.
2. Edit the ERP Integrated Document Configuration.
3. Select the context in which the business process scenario is run. Then, select the RFx template that you created in the previous step.
4. Select the *Default* checkbox.
5. Select Save.

5.3.10 Create Scheduled Tasks to Import XML Messages for RFx

Procedure

> **Note**
> An SAP Sourcing expert must perform this procedure.

1. Log on to SAP Sourcing as a user with system administration rights.
2. Choose *Setup*.
3. On the *System Setup* tab, find the *Scheduled Tasks* section and choose *Scheduled Tasks*.
4. Choose *New*.
5. Select *Data Import Monitor* and choose *Continue*.
6. Create the scheduled task for RFx as listed in the following table:

Table 81

Field	Value
Inactive (Status)	Select this checkbox until you are ready to run the task.
Display Name	*Master Data Import*
Description	enter `Import of RFx.`
Run As User	Choose a key user.
Frequency	Set the frequency according to your business requirements. However, be aware that running these tasks too frequently will cause performance issues. **Recommendation** The tasks run off the same daemon so we recommend the following frequency:

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	• For RFx, every 10 minutes
Start Date	As required.
On These Days	As required.
Expiration Date	As required.

7. Choose *Data Import Task Configuration*.
8. Maintain the data import task configuration as shown in the following table:

Table 82

Field	Value
Data Location	FTP
Requires Authentication	Select
FTP Information	Provided by your IT network expert.
Delete Data from FTP Server After Downloading	Select
Upload Directory	Provided by your IT network expert.
Queue Directory	Provided by your IT network expert.
Archive Directory	Provided by your IT network expert.
Receipt Notice Type Completion Notice Type	**Caution** Be aware that a setting other than *None* could generate several e-mails and/or alerts because an e-mail and/or alert is sent for each import file.

9. Save your entries.

5.4 Configure SAP Sourcing RFP Award to SAP ERP Purchase Order

Note

Maintain the PI URL and PI password in Integrated System Configuration if not already done. (See Edit Integrated System Configuration for SAP ERP Integration [page 14]).

Note

You must complete the steps in Create SAP ERP Integrated Document Type for RFx [page 89] before performing the procedures in this section.

For special points to consider when integrating SAP ERP and SAP Sourcing, see SAP Note 1653944 .

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Integration Architecture for SAP Sourcing RFP Award to SAP ERP Purchase Order

In the following figure, business is awarded in SAP Sourcing, and a synchronous call is sent to the back end to create a purchase order. The receipt back contains the purchase order number. It is assumed that the SAP NetWeaver Process Integration (SAP NetWeaver PI) server or Web service on the back end is listening on HTTP.



Figure 5: Integration Architecture

More Information

Mapping of SAP Sourcing RFP Award to SAP ERP Purchase Order [page 155]

Troubleshooting [page 124]

5.4.1 Configure Text ID for Storing RFP Reference in Purchase Order

Procedure

> **Note**
>
> An SAP ERP expert must perform this procedure.

Create a new purchase order item text to store the SAP Sourcing specific cross-reference information as follows:

1. In Customizing for *Materials Management* (transaction SPRO), choose *Purchasing* > *Purchase Order* > *Texts for Purchase Orders* > *Define Text Types for Item Texts*.
2. Create a new record as shown in the following table:

   Table 83: Fields and Values for Item Text for Purchase Order

Field	Value
Seq. No.	Enter any two-digit unique numeric value.
Meaning	Enter the following description: `SOURCING REF RFP AWARD to PO`

3. In Customizing for *Integration with Other mySAP.com Components*, choose *E-Sourcing* > *Settings for E-Sourcing Integration*.
4. Under *Reference to ES Request for Proposal*, enter the item text ID from step 2 in the *Seq. No. Purch. Ord.* field.

> **Note**
>
> The item text ID for purchase order in Customizing for *Integration with Other mySAP.com Components* under *E-Sourcing* > *Settings for E-Sourcing Integration* must not be used in SAP Sourcing. Otherwise, the document header/item text or the document number from SAP Sourcing will be missing in the document text in SAP ERP.

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5.4.2 Configure Integration Scenario for SAP Sourcing RFP Award to SAP ERP Purchase Order

Prerequisites

- Basic Configuration in SAP NetWeaver Process Integration [page 21]
- Configure Integration Scenario to Check RFC Connection between SAP NetWeaver and SAP ERP [page 96]
- Configure Communication Channel to Check RFC Connection between SAP Net Weaver and SAP ERP [page 97]

Procedure

> **Note**
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

> **Note**
> Skip this section if you are using **SAP NetWeaver PI 7.3 AEX** You must manually create this item using the information inConfiguring AEX Communication Channels and Integrated Configurat [page 185].

1. In the process integration tools (transaction SXMB_IFR), log on to the Integration Directory (SAP NetWeaver PI 7.0x) or Integration Builder (SAP NetWeaver PI 7.1 or higher).
2. **SAP NetWeaver PI 7.0x**: Select the Configuration Scenario that you created in Configure Integration Scenario [page 25] and click *Edit*. From the menu, select *Configuration Scenario* > *Integration Scenario Configurator*. In *Integration Scenario Configurator*, configure the scenario for *Send Award to SAP ERP for Purchase Order Creation*.

   SAP NetWeaver PI 7.1 or higher: Select the Configuration Scenario that you created in Configure Integration Scenario [page 25] and click *Edit*. From the menu on the right side of the page, select *Configuration Scenario* > *Model Configurator*. In *Model Configurator*, configure the scenario for *Send Award to SAP ERP for Purchase Order Creation*.
3. **SAP NetWeaver PI 7.0x** In the component view, double-click the connector (<->) between Receive RFC Call of `BBP_ES_PO_CREATE` and Send Award to ERP for Purchase Order Creation.

   SAP NetWeaver PI 7.1 or higher In the component view, click the connector (<->) between Receive RFC Call of `BBP_ES_PO_CREATE` and Send Award to ERP for Purchase Order Creation.
4. **SAP NetWeaver PI 7.0x** On the Connections from the Service Assignment tab, position the cursor in the Communication Channel field for Sender Business System Services and, in the dropdown for the Communication Channel field, select the communication channel that you created for sender business system services in Check RFC Connection Between SAP NetWeaver Process Integration and SAP ERP, and choose OK.

   SAP NetWeaver PI 7.1 or higher On the Connections from Component Assignment tab, position the cursor in the Communication Channel field for Sender Business System Components and, in the dropdown for the Communication Channel field, select the communication channel that you created for sender business system components in Check RFC Connection Between SAP NetWeaver Process Integration and SAP ERP, and choose OK.
5. **SAP NetWeaver PI 7.0x:** On the Connections from the Service Assignment tab, position the cursor in the Communication Channel field for Receiver Business System Services and, in the dropdown for the

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Communication Channel field, select the communication channel that you created for receiver business system services in Check RFC Connection Between SAP NetWeaver Process Integration and SAP ERP, and choose OK.

SAP NetWeaver PI 7.1 or higher On the Connections from Component Assignment tab, position the cursor in the Communication Channel field for Receiver Business System Components and, in the dropdown for the Communication Channel field, select the communication channel that you created for receiver business system components in Check RFC Connection Between SAP NetWeaver Process Integration and SAP ERP, and choose OK.

6. Choose *Apply*.
7. **SAP NetWeaver PI 7.0x**:Select *Settings* > *Apply Changes And Save Configuration Scenario.* .

   SAP NetWeaver PI 7.1 or higher: Click *Apply*, and then click *Save*.
8. **SAP NetWeaver PI 7.0x** Under *Configuration Steps*, click Generate.

   SAP NetWeaver PI 7.1 or higher Select the icon *Create Configuration Objects*.

   In the dialog box that appears, select Generation, ensure that all three check boxes under Scope of Generation are selected, select Create New, and then choose Start.

The following table shows the configuration objects that are generated for Publish SAP Sourcing RFx Award to SAP ERP Purchase Order. The sender business system is SAP Sourcing, the receiver business system is SAP ERP.

Table 84: Configuration Objects Generated for Publish SAP Sourcing RFx Award to SAP ERP Purchase Order

Sender Interface	Sender Communication Channel	Receiver Interface	Receiver Communication Channel	Interface Mapping
MI_OB_Award_To_Purchase_Order	CT_Generic_Sending_HTTP_Channel_For_ES_Documents	BBP_ES_PO_CREATE	CT_Generic_Receiving_RFC_Channel_For_ERP_Functions	IM_Award_To_Purchase_Order

5.5 Configure SAP Sourcing RFP Award to SAP ERP Outline Agreement

You must complete the steps in Create SAP ERP Integrated Document Type for RFx [page 89] before performing the procedures in this section.

Also, make sure you specify the NetWeaver Process Integration URL and NetWeaver Process Integration password in the Integrated System Configuration. See Edit Integrated System Configuration for SAP ERP Integration [page 14] for more information.

For special points to consider when integrating SAP ERP and SAP Sourcing, see SAP Note 1653944.

In the following figure, business is awarded in SAP Sourcing, and a synchronous call is sent to the back end to create an outline agreement. The receipt back contains the outline agreement ID. It is assumed that the SAP NetWeaver Process Integration (SAP NetWeaver PI) server or Web service on the back end is listening on HTTP.



Figure 6: Integration Architecture

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> **Note**
>
> To allow service items in SAP ERP outline agreements (published from a Master Agreement), you must enable the business function `MM_SFWS_P2PSE` in the SAP ERP system.

For more information, see:

- Mapping of SAP Sourcing RFP Award to SAP ERP Outline Agreement [page 161]
- Troubleshooting [page 124]

For special points to consider when integrating SAP ERP and SAP Sourcing, see SAP Note 1653944 .

5.5.1 Configure RFP Award to Transfer Price Conditions

> **Note**
>
> An SAP Sourcing expert must perform this procedure.

This step is necessary only if you want to transfer price conditions from an RFP award in SAP Sourcing directly to an outline agreement or purchase order in SAP ERP.

Prerequisites

- Create Price Conditions in SAP Sourcing [page 83].

Procedure

1. Log on to SAP Sourcing as a user with the rights to create and edit RFx document types.
2. Choose *Setup*.
3. On the *Document Setup* tab, find the *RFx* section and click *RFx Types*.
4. In the list of RFx types, click the integrated type that you want to use to create integrated RFxs.
5. Choose *Edit*.
6. On the *Integration* tab, choose *Add Pricing Condition* in the price conditions table, select the price conditions that you created in Create Pricing Conditions in SAP Sourcing [page 83], and choose *OK*.
7. Save your entries.

> **Note**
>
> You can filter the available price conditions by the document type.
>
> For price conditions to be copied from one document to the other, the price conditions must exist in both document types. For example, if you want to create a master agreement from an RFP award, the price conditions must exist in both the RFx and master agreement. If the RFx has price conditions *PCON1* and *PCON2*, and the master agreement has price conditions *PCON1* and *PCON3* (but not *PCON2*), only the data from *PCON1* is copied from the RFP award to the master agreement.

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5.5.2 Configure Integration Scenario for SAP Sourcing RFP Award to SAP ERP Outline Agreement

Prerequisites

- Basic Configuration in SAP NetWeaver Process Integration [page 21]
- Configure Integration Scenario to Check RFC Connection between S [page 96]
- Configure Communication Channel to Check RFC Connection between SAP NetWeaver and SAP ERP [page 97]

Procedure

> **Note**
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

> **Note**
> Skip this section if you are using **SAP NetWeaver PI 7.3 AEX** You must manually create this item using the information inConfiguring AEX Communication Channels and Integrated Configurat [page 185].

1. In the process integration tools (transaction SXMB_IFR), log on to the Integration Directory (SAP NetWeaver PI 7.0x) or Integration Builder (SAP NetWeaver PI 7.1 or higher).
2. **SAP NetWeaver PI 7.0x**: Select the Configuration Scenario that you created in Configure Integration Scenario [page 25] and click *Edit*. From the menu, select *Configuration Scenario* > *Integration Scenario Configurator*. In *Integration Scenario Configurator*, configure the scenario for *Send Award to ERP for Outline Agreement* .

   SAP NetWeaver PI 7.1 or higher: Select the Configuration Scenario that you created in Configure Integration Scenario [page 25] and click *Edit*. From the menu on the right side of the page, select *Configuration Scenario* > *Model Configurator*. In *Model Configurator*, configure the scenario for *Send Award to ERP for Outline Agreement* .
3. **SAP NetWeaver PI 7.0x**: In the component view, double-click the connector (<->) between Receive RFC Call of `BBP_ES_OA_UPDATE` and Send Award to ERP for Outline Agreement Update.

   SAP NetWeaver PI 7.1 or higher: In the component view, click the connector (<->) between Receive RFC Call of `BBP_ES_OA_UPDATE` and Send Award to ERP for Outline Agreement Update.
4. **SAP NetWeaver PI 7.0x**: On the Connections from the Service Assignment tab, position the cursor in the Communication Channel field for Sender Business System Services and, in the drop-down for the Communication Channel field, select the communication channel that you created for sender business system services in Configure Integration Scenario to Check RFC Connection between S [page 96] and click *OK*.

   SAP NetWeaver PI 7.1 or higher: On the Connections from Component Assignment tab, position the cursor in the Communication Channel field for Sender Business System Components and, in the drop-down for the Communication Channel field, select the communication channel that you created for sender business system components in Configure Integration Scenario to Check RFC Connection between S [page 96] and click *Apply*.
5. **SAP NetWeaver PI 7.0x**: On the Connections from the Service Assignment tab, position the cursor in the Communication Channel field for Receiver Business System Services and, in the drop-down for the

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Communication Channel field, select the communication channel that you created for receiver business system services in Configure Integration Scenario to Check RFC Connection between S [page 96] and click *OK*.

SAP NetWeaver PI 7.1 or higher: On the Connections from Component Assignment tab, position the cursor in the Communication Channel field for Receiver Business System Components and, in the drop-down for the Communication Channel field, select the communication channel that you created for receiver business system components in Configure Integration Scenario to Check RFC Connection between S [page 96] and click *Apply*.

6. **SAP NetWeaver PI 7.0x**:Select *Settings* > *Apply Changes And Save Configuration Scenario.*.

   SAP NetWeaver PI 7.1 or higher: Click *Apply*, and then click *Save*.

7. **SAP NetWeaver PI 7.0x:** Under Configuration Steps, click *Generate*.

   SAP NetWeaver PI 7.1 or higher: Select the icon *Create Configuration Objects*.

   In the dialog box that appears, select Generation, ensure that all three check boxes under Scope of Generation are selected, select *Create New*, and then select *Start*.

The following table shows the configuration objects that are generated for Publish SAP Sourcing RFx Award to SAP ERP Outline Agreement. The sender business system is SAP Sourcing, the receiver business system is SAP ERP.

Table 85: Configuration Objects Generated for Publish SAP Sourcing RFx Award to SAP ERP Outline Agreement

Sender Interface	Sender Communication Channel	Receiver Interface	Receiver Communication Channel	Interface Mapping
MI_OB_Award_To_OA	CT_Generic_Sending_HTTP_Channel_For_ES_Docu- ments	BBP_ES_OA_UPDATE	CT_Generic_Receiving_RFC_Chan- nel_For_ERP_Functions	IM_Award_To_OA

5.5.3 Configure Text ID for Storing RFP Reference in Contract and Scheduling Agreement

Procedure

> **Note**
>
> An SAP ERP expert must perform this procedure.

Carry out the following steps in SAP ERP.

1. In Customizing for *Integration with Other mySAP.com Components* (transaction SPRO), choose *E-Sourcing* > *Settings for E-Sourcing Integration*.

   > **Recommendation**
   >
   > We recommend defining a new text ID for this purpose. For contracts, you do this in Customizing for *Materials Management* > *Purchasing* > *Contract* > *Texts for Contracts* > *Define Text Types for Item Texts*. For scheduling agreements, you do this in Customizing for *Materials Management* > *Purchasing* > *Scheduling Agreement* > *Texts for Scheduling Agreements* > *Define Text Types for Item Texts*.

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> **Note**
>
> The fields with the item text IDs for contract and scheduling agreement in Customizing for *Integration with Other mySAP.com Components* ▸ *E-Sourcing* ▸ *Settings for E-Sourcing Integration* must not be used for any other purpose in SAP ERP. Otherwise, the document header/item text or the document number from SAP Sourcing will be missing in the document text in SAP ERP.

2. Under *Reference to ES Request for Proposal*, enter an item text ID for contract and scheduling agreement. In the contract or scheduling agreement in SAP ERP, this text ID contains the document number and document description of the request for proposal (RFP) in SAP Sourcing.

5.6 Configure SAP Sourcing Agreement to SAP ERP Outline Agreement

Carry out the steps in Edit Integrated System Configuration to maintain PI URL and PI password if not already done. This is carried out by the Service Delivery Consultant.

Also complete Create SAP ERP Integrated Document Types for Contracts [page 93].

For special points to consider when integrating SAP ERP and SAP Sourcing, see SAP Note 1653944.

In the following figure, business is awarded in SAP Sourcing, and a synchronous call is sent to the back end to create an outline agreement. The receipt back contains the outline agreement ID. It is assumed that the SAP NetWeaver Process Integration (SAP NetWeaver PI) server or Web service on the back end is listening on HTTP.



Figure 7: Integration Architecture

> **Note**
>
> To allow service items in SAP ERP outline agreements (published from a Master Agreement), you must enable the business function `MM_SFWS_P2PSE` in the SAP ERP system.

For more information, see:

- Mapping of SAP Sourcing RFP Award to SAP ERP Outline Agreement [page 161]
- Troubleshooting [page 124]

For special points to consider when integrating SAP ERP and SAP Sourcing, see SAP Note 1653944 .

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5.6.1 Configure SAP ERP Integrated Master Agreement and Sub-agreement Numbering Table

5.6.1.1 Customize External Number Ranges for Agreements in SAP ERP

Prerequisites

Implement the directives of SAP Note 1683732 before performing the following procedure.

Procedure

You only need to perform the following steps if you want the document IDs in SAP Sourcing and SAP ERP to be equal. If you do not set up an external number range, the SAP ERP documents are created with a new number based on the SAP ERP internal number range, according to the document type.

1. In *Customizing for Materials Management* (transaction SPRO) in SAP ERP, select *Purchasing* > *Contract* > *Define Number Ranges*.
2. Create an external number range that is equal to the number range to be defined in SAP Sourcing. Note that external intervals can only contain either letters or numbers. This constraint also applies to SAP Sourcing numbering table.
3. In *Customizing for Materials Management* (transaction SPRO) in SAP ERP, select *Purchasing* > *Contract* > *Define Document Types*.
4. Assign the external number range you created in Step 2 to the document types that you want to use in SAP Sourcing.
5. In *Customizing for Materials Management* (transaction SPRO) in SAP ERP, select *Purchasing* > *Scheduling Agreements* > *Define Number Ranges*.
6. Create an external number range that is equal to the number range to be defined in SAP Sourcing. Note that external intervals can only contain either letters or numbers. This constraint also applies to SAP Sourcing numbering table.
7. In *Customizing for Materials Management* (transaction SPRO) in SAP ERP, select *Purchasing* > *Scheduling Agreements* > *Define Document Types*.
8. Assign the external number range you created in Step 6 to the document types that you want to use in SAP Sourcing.

5.6.1.2 Configure Numbering Tables in SAP Sourcing

Each Master Agreement type (for example, Standard, ERP Integrated Master Agreements) can have its own business rules and options. One useful item you can use is option to define separate numbering schemes. For SAP ERP integrated agreements, the master agreements and sub-agreements must have different numbering schemes. The numbering definition rules for SAP ERP integrated agreements are as follows:

- The generated ID number must contain a generated sequential number and either a prefix, a suffix, or both.

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- The prefix, suffix, or the combination of both must be different for a Master Agreement and a sub-agreement.
- The total length of the generated ID number cannot exceed ten characters.

To create new numbering table definitions or modify existing ones for Master Agreement, do the following steps (for sub-agreements, modify the existing default numbering table definition):

Procedure

1. Click *Setup* in the Toolbar at the top of the page.
2. In the Master Data tab, click on *Numbering Table Definition* in the Master Data area.
3. On the Numbering Table List page, click *New* to create a new numbering table definition, or click *Edit* to open an existing definition in edit mode.
4. Specify the following information to create or edit the numbering table:

Table 86

Field/Parameter	Description
Name	The name of the table.
Class Name	For a new numbering table definition for Master Agreement, select *Master Agreement* from the drop-down list. Otherwise, do not modify this value.
Use as Class Default	For a new numbering table definition for Master Agreement, select this parameter to use this numbering table as the default table.
Table ID	This field appears if you clear the *Use as Class Default* checkbox. Enter a unique ID for this non-default numbering table.
Prefix	(optional) If you want to pass the `UNIQUE_DOC_NAME` as the external ID to ERP OA, do one of the following: • If the ERP number range ends with letters, Enter the same letters. • If the ERP number range does not contain any letters (digits only), leave this blank.
Postfix (or Suffix)	(optional) If you want to pass `UNIQUE_DOC_NAME` as the external ID to ERP OA, do one of the following: • If the ERP number range ends with letters, Enter the same letters. • If the ERP number range does not contain any letters (digits only), leave this blank.
Sequence Number Width	Specify a maximum width for the generated sequential number in the object ID. The default value is 10. If you want to pass `UNIQUE_DOC_NAME` as the external ID to ERP OA, then the total length of the generated ID must be 10.
Sequence Number Padded	Select this checkbox to set the width of the generated sequential number. This ensures that it always matches the value in the *Sequence Number Width* field.
Start Number	Object numbers are generated from the starting point you specify in this field. The default value is 1. If you want to pass `UNIQUE_DOC_NAME` as the external ID to ERP OA, enter the same starting number as shown in the *From No.* column in the *Number Ranges Intervals* table.

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	Note If the ERP number range intervals contain letters, do not include them here. It is only for numbers.
Number Incremented By	Object numbers are generated based on the increments you specify in this field. The default value is 1.

5. Click *Save* .

5.6.1.3 Configure Master Agreement Type to Use Non-default Numbering Table

Procedure

If you defined a non-default numbering definition for Master Agreement in Configure Numbering Tables in SAP Sourcing [page 118], and you want to use the definition when you create the Master Agreement, do the following steps:

1. Click *Setup* in the Toolbar at the top of the page.
2. Go to Document Setup tab and click *Master Agreement Types* in the Agreements section.
3. In the Master Agreement Type list page, click *ERP Master Agreement Type* definition, then click *Edit*.
4. Click the picker button for the field Numbering Table and select the new Numbering table to reference.
5. Click *OK*.
6. Save the Master Agreement type.

5.6.2 Configure Master Agreement Type to Transfer Price Conditions

Note

An SAP Sourcing expert must perform this procedure.

This is not an optional step. To publish a master agreement to SAP ERP, you must maintain the price on the line item. In order to enable price maintenance, the user must have at least one price condition of type **material**, and one of type **service**, assigned to the integrated master agreement type in SAP ERP.

Prerequisites

- Create Price Conditions in SAP Sourcing [page 83].

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Procedure

1. Log on to SAP Sourcing as a user with the rights to create and edit Master Agreement Types.
2. Choose *Setup*.
3. On the *Document Setup* tab, find the *Agreements* section and click *Master Agreement Types*.
4. In the list of master agreement document types, click the integrated type that you want to use to create integrated master agreements.
5. Choose *Edit*.
6. On the *Integration Details* tab, choose *Add Pricing Condition* in the price conditions table, select the price conditions that you created in Create Pricing Conditions in SAP Sourcing [page 83], and choose *OK*.
7. Save your entries.

5.6.3 Configure Integration Scenario for Master Agreement to Outline Agreement

Prerequisites

- Basic Configuration in SAP NetWeaver Process Integration [page 21]
- Configure Integration Scenario for RFC [page 96]
- Configure Communication Channel for RFC [page 97]

Procedure

> **Note**
>
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

> **Note**
>
> Skip this section if you are using **SAP NetWeaver PI 7.3 AEX** You must manually create this item using the information inConfiguring AEX Communication Channels and Integrated Configurat [page 185].

1. In the process integration tools (transaction SXMB_IFR), log on to the *Integration Directory* (SAP NetWeaver PI 7.0x) or Integration Builder (SAP NetWeaver PI 7.1 or higher).
2. **SAP NetWeaver PI 7.0x**: Select the Configuration Scenario that you created in Configure Integration Scenario [page 25] and click *Edit*. From the menu, select *Configuration Scenario* > *Integration Scenario Configurator*. In *Integration Scenario Configurator*, configure the scenario for *Send Master Agreement to Outline Agreement*.

   SAP NetWeaver PI 7.1 or higher: Select the Configuration Scenario that you created in Configure Integration Scenario [page 25] and click *Edit*. From the menu on the right side of the page, select *Configuration Scenario* > *Model Configurator*. In *Model Configurator*, configure the scenario for *Send Master Agreement to Outline Agreement*.

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3. **SAP NetWeaver PI 7.0x**: In the component view, double-click the connector (→) between Receive RFC Call of `BBP_ES_OA_UPDATE` and Send Agreement to ERP.

   SAP NetWeaver PI 7.1 or higher: In the component view, click the connector (→) between Receive RFC Call of `BBP_ES_OA_UPDATE` and Send Agreement to ERP.

4. **SAP NetWeaver PI 7.0x**: On the *Connections from the Service Assignment* tab, position the cursor in the *Communication Channel* field for *Sender Business System Services* and, in the dropdown for the *Communication Channel* field, select the communication channel that you created for sender business system services in *Check RFC Connection Between SAP NetWeaver Process Integration and SAP ERP*, and choose *OK*.

   SAP NetWeaver PI 7.1 or higher: On the *Connections from Component Assignment* tab, position the cursor in the *Communication Channel* field for *Sender Business System Components* and, in the dropdown for the *Communication Channel* field, select the communication channel that you created for sender business system components in *Check RFC Connection Between SAP NetWeaver Process Integration and SAP ERP*, and choose *OK*.

5. **SAP NetWeaver PI 7.0x** On the Connections from the Service Assignment tab, position the cursor in the Communication Channel field for Receiver Business System Services and, in the dropdown for the Communication Channel field, select the communication channel that you created for receiver business system services in Check RFC Connection Between SAP NetWeaver Process Integration and SAP ERP, and choose OK.

   SAP NetWeaver PI 7.1 or higher: On the Connections from Component Assignment tab, position the cursor in the Communication Channel field for Receiver Business System Components and, in the dropdown for the Communication Channel field, select the communication channel that you created for receiver business system components in Check RFC Connection Between SAP NetWeaver Process Integration and SAP ERP, and choose OK.

6. Choose *Apply*.
7. Navigate to *Settings* > *Apply Changes* > *Save Configuration Scenario*.
8. **Generate Configuration Objects**:

   SAP NetWeaver PI 7.0x: Under *Configuration Steps*, choose *Generate*.

   SAP NetWeaver PI 7.1 or higher: choose the icon with the tooltip *Create Configuration Objects*. In the dialog box that appears, select *Generation*, ensure that all three checkboxes under *Scope of Generation* are selected, select *Create New*, and then choose *Start*.

The following table shows the configuration objects that are generated for Publish SAP Sourcing Master Agreement to SAP ERP Outline Agreement. The sender business system is SAP Sourcing, the receiver business system is SAP ERP.

Table 87: Configuration Objects Generated for Publish SAP Sourcing Master Agreement to SAP ERP Outline Agreement

Sender Interface	Sender Communication Channel	Receiver Interface	Receiver Communication Channel
MI_OB_Agreement	CT_Generic_Sending_HTTP_Channel_For_ES_Documents	BBP_ES_OA_UPDATE	CT_Generic_Receiving

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5.6.4 Configure Text ID for Storing Agreement Reference in Contract and Scheduling Agreement

Procedure

> **Note**
>
> An SAP ERP expert must perform this procedure.

Carry out the following in SAP ERP :

1. In Customizing for Integration with Other mySAP.com Components (transaction SPRO), choose *E-Sourcing Settings* > *Settings for E-Sourcing Integration*.
2. Under *Reference to ES Master Agreement*, enter an item text ID for contract and scheduling agreement. In the contract or scheduling agreement in SAP ERP, this text ID contains the document number and document description of the master agreement or subagreement in SAP Sourcing.

> **Recommendation**
>
> SAP recommends defining a new text ID for this purpose. For contracts, you do this in *Customizing for Materials Management* > *Purchasing Contract* > *Texts for Contracts* > *Define Text Types for Item Texts*

> **Note**
>
> The fields with the item text IDs for contract and scheduling agreement in *Customizing for Integration with Other mySAP.com Components* > *E-Sourcing* > *Settings for E-Sourcing Integration* must not be used for any other purpose in SAP ERP. Otherwise, the document header or item text or the document number from SAP Sourcing will be missing in the document text in SAP ERP.

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6 Appendix

6.1 Troubleshooting

Procedure

The following table contains tips for troubleshooting the integration of SAP ERP and SAP Sourcing:

Table 88: Troubleshooting Integration of SAP ERP and SAP Sourcing

Issue	Solution
In data import, files are successfully created by SAP ERP and/or SAP NetWeaver Process Integration (SAP NetWeaver PI) and sent to SAP Sourcing, but they are not picked up by SAP Sourcing.	This implies an issue with the data import monitor process. Check that the scheduled task is configured correctly, including the *Run As* user, schedule settings, file system or FTP settings, and so on. For more information, see: • Extract Customizing Data from SAP ERP [page 29] • Carry Out Initial Load of Materials and Vendors from SAP ERP to SAP Sourcing [page 45] • Transfer Changes to Vendor from SAP ERP to SAP Sourcing [page 61] Also check the SAP Sourcing application server logs.
In data import, the files are successfully picked up by SAP Sourcing, but the import fails due to: • Empty file (also known as zero-byte file) Empty files are identified by the importer, moved out of the queue, and notification is sent. • Corrupt file Corrupt files are usually due to malformed XML inside the file. This is not generally expected because the files are machine-made. • Data validation failure Data validation failures are anticipated conditions, and messages are provided.	Check the data import record for the file imported. You do this as follows: 1. Log on to SAP Sourcing. 2. Choose *Setup*. 3. On the *System Administration* tab, find the *Import and Export Tools* section and click *Import Data*. All data imports are displayed with basic information such as the result of the import, number of records imported successfully, and number of failed records. You can also filter the data imports by date. For detailed information about the import session, click the data import name to access the `trace.txt` file. Any pertinent errors and/or warnings are logged here. This trace file and the SAP Sourcing application server logs provide most data for troubleshooting import problems. You will need the trace file and SAP Sourcing application server logs if you contact SAP Sourcing support.
In data import, you get an error message that a default language value was not provided.	See Define Default Language Preferences for Localized Resource Strings [page 15].
In data import, you get a warning message about invalid or missing	See Extract Customizing Data from SAP ERP [page 29].

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Issue	Solution
values in SAP Sourcing, but the data import continues successfully.	
You want to add table-based questions to an RFx, but you get an error message that the unit category *No Dimension* contains no units of measure.	1. Log on to SAP Sourcing as a user with rights to edit Unit of Measure. 2. Choose *Setup*. 3. On the *Master Data* tab, find the *Master Data* section and click *Unit of Measure*. 4. Check that the unit category *No Dimension* exists, and that one of the units of measure in this unit category is designated as the primary unit. This unit category usually contains units of measure such as *EA* and *BOX*.
HTTP requests are not fully read after timeout.	See SAP Note 807000.
You want to publish suppliers from SAP Sourcing to SAP ERP, but the file export fails.	Check the SAP Sourcing application server logs because the error message that is displayed on the SAP Sourcing UI is also written to the application server logs, where more diagnostic information can generally be found. Also check the integrated system configuration object, which contains the settings used by the export process, including where to send the file. You can access the integrated system configuration object in SAP Sourcing as follows: 1. Choose *Setup*. 2. On the *System Setup* tab, find the *Integration* section and click *Integrated System Configuration*.
An RFx is created in SAP Sourcing via import, but the file export fails when the receipt is sent to SAP ERP.	Check the `trace.txt` file and/or SAP Sourcing application server logs. For information about how to access the `trace.txt` file, see above. Also check the integrated system configuration object, which contains the settings used by the export process, including where to send the file. For information about how to access the integrated system configuration object, see above.
You want to enable the logging of synchronous messages in SAP NetWeaver PI from synchronous calls between SAP Sourcing and SAP ERP via SAP NetWeaver PI.	1. In the Integration Engine in SAP NetWeaver PI (transaction `sxmb_adm`), choose *Integration Engine Configuration*. 2. Choose *Change Configuration*. 3. Add the parameter *LOGGING_SYNC* with the category *RUNTIME* and the current value *1*.
You want to publish master agreements or awards from SAP Sourcing to SAP ERP, but the HTTP publish process fails.	• Enable the logging of synchronous messages in SAP NetWeaver PI. For performance reasons, synchronous messages are not logged by default in SAP NetWeaver PI. • Check the monitoring tools in SAP NetWeaver PI and/or SAP ERP, and/or the application server logs in SAP Sourcing. This is because master agreements and awards are published from SAP Sourcing to SAP ERP using synchronous HTTP requests through SAP NetWeaver PI. When the publish process fails, the errors that are displayed on the SAP Sourcing user interface can come from SAP ERP, SAP NetWeaver PI, or SAP Sourcing, depending on where the failure originated. Where possible, the source of the problem is clearly identified, but such context is not always readily available. SAP Sourcing writes whatever context it has to the application server logs.

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Issue	Solution
	• Also check the integrated system configuration object, which contains the settings used by the export process, including the SAP NetWeaver PI URL. For information about how to access the integrated system configuration object, see above. • Analyze the payload XML that SAP Sourcing writes to the application server file system. The error message specifies the location and name of this file. • Check that the HTTP J2EE ports to connect from the hosting SAP NetWeaver PI system are open. The following lists component-specific timeout parameters that you can modify to resolve timeout issues: **Timeout Settings: All NetWeaver PI Systems** • *icm/conn_timeout*: Connection Timeout. Used to set the timeout when setting up the connection. Error message: *404 Resource not found, Partner not reached.* • *icm/keep_alive_timeout*: Keepalive Timeout. The keepalive timeout specifies how long the network should remain open after a request has been processed successfully so that the TCP/IP connection does not have to be reestablished if additional requests are received. Error message: `Exceeding the Keepalive timeout should never cause an Error.` • *icm/server_port_< n >...PROCTIMEOUT=< s >*: Processing timeout. Server: The processing timeout specifies the time that the ICM will wait until a response is received from the SAP Web Application Server (AS ABAP or AS Java). Client: The processing timeout states the amount of time that the ICM waits until a response is received from the network. SAP recommends the following settings *icm/server_port_0 = PROT=HTTP, PORT=1080, TIMEOUT=60, PROCTIMEOUT=600*. Error message: `500 Connection timed out.` **Timeout Settings: SAP PI** • *HTTP_TIMEOUT*: Timeout default for HTTP connections (time between two data packages passing across a connection). This value overrides the system profile parameter *icm/server_port_n* (for example, *icm/server_port_0 : PROT=HTTP, PORT=50044, TIMEOUT=900*). If the parameter *HTTP_TIMEOUT* is not set or if you enter the value *0*, then the setting for the system profile parameter is applied. Error message: `SXMB_MONI error code ICM_HTTP_TIMEOUT.` • *xiadapter.inbound.timeout.default* : This controls the time the messaging system waits for a response during synchronous communication. If you are receiving timeout—related error messages (for example: `MessageExpired`) when attempting to publish very large Master Agreements and Award documents to SAP ERP, increase the value of this parameter in the SAP NetWeaver Administrator application. The default value is 180000 milliseconds (3 minutes). Try increasing this value to 600000 (10 minutes). Continue increasing this values until the issue is resolved. See SAP Note 791379 for more information. **Timeout Settings: SAP ERP**

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Issue	Solution
	• *rdisp/mas_wprun_time*: A system parameter in SAP ERP used to terminate unending loops and other unintended long running transactions. The setting of the parameter *rdisp/mas_wprun_time* can cause work process termination or report termination. Error Messages: `ABAP Shortdump "TIME_OUT"` or `SY 098: "Time limit exceeded".` **Timeout Settings: SAP Sourcing** • *upp, upp.metering.login_inactivity_timeout*: Set to the timeout that was chosen when running the configure utility. See the *SAP Sourcing Configuration Guide*. Error Message: `Redirects to login page at the next user action.` • *upp, upp.metering.cleanup_interval*: Defines the time between runs of the daemon, which removes inactive sessions. SAP recommends that this value is set to a value that is slightly larger than the *upp.metering.login_inactivity_timeout* parameter. See the *SAP Sourcing Configuration Guide*. Error Message: None. • *displayFramework, transactionTimeout.millis*: Error Message: `Page cannot be displayed.` **Timeout Settings: SAP Config Tool** • *Time-out*: Set to the timeout that was chosen when running the configure utility. See the *SAP Sourcing Configuration Guide*. Error Message: `Page cannot be displayed.`
You want to publish master agreements or awards from SAP Sourcing to SAP ERP, but get the following errors: • Error in ESO : class java.io.IOException Server returned HTTP response code: 500 for URL http://host:port/sap/xi/adapter_plain?namespace=http://frictionless.esource.com/v2.0&interface=MI_ESI_OA&service=BS_FCI_TEST&QOS=BE&sap-user=&sap-password=&sap-client=xxx&sap-language=EN. Please contact your system administrator. • Error in PI: No receiver could be determined.	Make sure that the business service name, interface name, and namespace text are entered in SAP Sourcing in the same case as configured in SAP NetWeaver PI. For more information, see Edit Integrated System Configuration [page 14].
Outline agreements (OA) or purchase orders (PO) are not created correctly	1. Store the incoming data in global memory. You do this in Customizing for *Integration with Other mySAP.com Components* (transaction `SPRO`) ▶ *E-Sourcing* ▶ *Settings for E-Sourcing Integration* ◢ by selecting the *Activate Log*

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Issue	Solution
in SAP ERP. You want to log the RFC calls and debug.	checkbox. As a result, all data from SAP Sourcing (RFP award to PO, RFP award to OA, master agreement to OA) is stored in memory area `es` of database table `INDX`. 2. Using transaction `BBP_ES_ANALYZE`, analyze and reprocess the stored data. You do this by entering **`OA*`** for documents that have been created as outline agreements, or **`PO*`** for all incoming purchase orders. Then click the input help. For each OA or PO, the system displays the date and time of creation, and the RFX document number or master agreement/subagreement number. To display the data structure of any given OA or PO, and how it was processed by the corresponding RFC function module in SAP ERP, select the corresponding ID and choose *Execute*. You can then reprocess the OA or PO, or start debugging.
You get the following error in SAP ERP when publishing a Master Agreement with a service item: `"Item Category 9 not supported"`	To allow service items in SAP ERP outline agreements (published from a Master Agreement), you must enable the business function `MM_SFWS_P2PSE` in the SAP ERP system.
You get an error message that the purchase order (PO) contains faulty items.	Check that the Incoterms locations are maintained identically in SAP ERP and SAP Sourcing.

6.2 Field Mapping Between SAP ERP and SAP Sourcing

6.2.1 Mapping of Customizing Data from SAP ERP to SAP Sourcing

The following table shows how the company code is mapped from SAP ERP to SAP Sourcing.

Table 89: Mapping of Company Code from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
Company Code	T001- BUKRS	External ID	masterdata.CompanyCode	EXTERNAL_ID	
City	T001- ORT01	City	masterdata.CompanyCode	CITY	
Country Key	T001- LAND1	Country	masterdata.CompanyCode	COUNTRY	
Currency Key	T001- WAERS	Currency	masterdata.CompanyCode	CURRENCY	

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SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
Name of Company Code or Company	T001- BUTXT	Display Name	masterdata.CompanyCode	NAME	
		Replicated	masterdata.CompanyCode	IS_REPLICATED	Constant value *TRUE*
Logical System	T000-LOGSYS	Business System	masterdata.CompanyCode	BUSINESS_SYSTEM	

The following table shows how the purchasing organization is mapped from SAP ERP to SAP Sourcing.

Table 90: Mapping of Purchasing Organization from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
Purchasing Organization	T024E- EKORG	External ID	masterdata.POrg	EXTERNAL_ID	
Company Code	T024E- BUKRS	Company Code	masterdata.POrg	COMPANY_CODE	
Purchasing Organization Description	T024E- EKOTX	Display Name	masterdata.POrg	NAME	
		Replicated	masterdata.POrg	IS_REPLICATED	Constant value *TRUE*
Logical System	T000-LOGSYS	Business System	masterdata.POrg	BUSINESS_SYSTEM	

The following table shows how the purchasing group is mapped from SAP ERP to SAP Sourcing.

Table 91: Mapping of Purchasing Group from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
Purchasing Group	T024- EKGRP	External ID	masterdata.PGroup	EXTERNAL_ID	
Tel.No.Pur.Grp	T024- EKTEL	Telephone	masterdata.PGroup	TELEPHONE	
Fax Number	T024- TELFX	Fax	masterdata.PGroup	FAX	
E-Mail Address	T024- SMTP_ADDR	E-Mail Address	masterdata.PGroup	EMAIL_ADDRESS	
Desc.Pur.Grp	T024- EKNAM	Display Name	masterdata.PGroup	NAME	

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SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
		Replicated	masterdata.PGroup	IS_REPLICATED	Constant value *TRUE*
Logical System	T000-LOGSYS	Business System	masterdata.PGroup	BUSINESS_SYSTEM	

The following table shows how the payment term is mapped from SAP ERP to SAP Sourcing.

Table 92: Mapping of Payment Term from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
Terms of Payment Key	T052- ZTERM	External ID	masterdata.PaymentTerm	EXTERNAL_ID	
Language Key	T052U- SPRAS	(This field is not displayed on the user interface.)	masterdata.PaymentTerm	NAME – language	
Own Explanation of Term of Payment	T052U- TEXT1	Display Name	masterdata.PaymentTerm	NAME	
Own Explanation of Term of Payment	T052U- TEXT1	Description	masterdata.PaymentTerm	DESCRIPTION	
		Replicated	masterdata.PaymentTerm	IS_REPLICATED	Constant value *TRUE*
Cash Discount Percentage Rate	T052-ZPRZ1	% Discount	masterdata.PaymentTermSub	DISCOUNT	
Days from Baseline Date for Payment	T052-ZTAG1	Days	masterdata.PaymentTermSub	PAY_DAY	
Cash Discount Percentage Rate	T052-ZPRZ2	% Discount	masterdata.PaymentTerm	DISCOUNT	
Days from Baseline Date for Payment	T052-ZTAG2	Days	masterdata.PaymentTerm	PAY_DAY	
Days from Baseline Date for Payment	T052-ZTAG3	Days	masterdata.PaymentTerm	PAY_DAY	
Logical System	T000-LOGSYS	Business System	masterdata.PGroup	BUSINESS_SYSTEM	

The following table shows how the material group is mapped from SAP ERP to SAP Sourcing.

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Table 93: Mapping of Material Group from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
Material Group	T023- MATKL	Category ID	masterdata.InternalCat	CATEGORY_ID	
Language Key	T023-SPRAS	(This field is not displayed on the user interface.)	masterdata.InternalCat	NAME – language	
Material Group Description	T023T- WGBEZ	Display Name	masterdata.InternalCat	NAME	
Long Text Describing the Material Group	T023T- WGBEZ60	Display Name	masterdata.InternalCat	NAME	
		Replicated	masterdata.InternalCat	IS_REPLICATED	Constant value *TRUE*
Logical System	T000-LOGSYS	Business System	masterdata.InternalCat	BUSINESS_SYSTEM	

The following table shows how the plant is mapped from SAP ERP to SAP Sourcing.

Table 94: Mapping of Plant from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
Plant	T001W- WERKS	External ID	masterdata.Plant	EXTERNAL_ID	
House Number and Street	T001W- STRAS	Street	masterdata.Plant	STREET	
City	T001W- ORT01	City	masterdata.Plant	CITY	
Postal Code	T001W- PSTLZ	Postal Code	masterdata.Plant	POSTAL_CODE	
Region (State, Province, County)	T001W- REGIO	ERP Region	masterdata.Plant	ERP_REGION	
Country Key	T001W- LAND1	Country	masterdata.Plant	COUNTRY	
Name	T001W-NAME1	Display Name	masterdata.Plant	NAME	
Name 2	T001W-NAME2	Description	masterdata.Plant	DESCRIPTION	
Purchasing Organization	T024W-EKORG	Purchasing Organizations	masterdata.PlantPOrg	PORG	
Company Code	T001K-BUKRS	Company Code	masterdata.Plant	EXTERNAL_COMPANY	
		Replicated	masterdata.Plant	IS_REPLICATED	Constant value *TRUE*

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SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
Logical System	T000-LOGSYS	Business System	masterdata.Plant	BUSINESS_SYSTEM	

The following table shows how the condition type (pricing condition) is mapped from SAP ERP to SAP Sourcing.

Table 95: Mapping of Condition Type (Pricing Condition) from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
		(This field is not displayed on the user interface.)	eso.masterdata.pricingcondition	EXTERNAL_ID	T685A-KSCHL and T000-LOGSYS
		Replicated	eso.masterdata.pricingcondition	IS_REPLICATED	Always TRUE
Name	T685T-VTEXT	Name	eso.masterdata.pricingcondition	NAME – language	
Logical System	T000-LOGSYS	Logical System	eso.masterdata.pricingcondition	LOGICAL_SYSTEM	
Application	T685A-KAPPL	Item Type	eso.masterdata.pricingcondition	MATERIAL_SERVICE	MATERIAL or SERVICE
	T685A-KKOPF and T685A-KPOSI	Condition Applies To	eso.masterdata.pricingcondition	TYPE	HEADER or ITEM or BOTH
Plus/Minus Sign of Condition Amount	T685A-KNEGA	Impact on Price	eso.masterdata.pricingcondition	SIGN	POSITIVE or NEGATIVE or BOTH
Calculation Type for Condition	T685A-KRECH	Calculation Type	eso.masterdata.pricingcondition	UNIT	A Percentage B Fixed Amount
Condition Class	T685A-KOAID	Condition Class	eso.masterdata.pricingcondition	COND_CLASS	A Discount or Surcharge B Prices
Scale Basis Indicator	T685A-KZBZG	Scale Base	eso.masterdata.pricingcondition	SCALE_BASE	B Value Scale C Quantity Scale
Scale Type	T685A-STFKZ	Scale Type	eso.masterdata.pricingcondition	SCALE_TYPE	<Blank> Can Be Maintained in Condition Record A Base Scale B To Scale

The following table lists SAP ERP to SAP Sourcing mapping information for Vendor Account Group.

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Table 96: Mapping of Vendor Account Group from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
		Inactive	odp.masterdata.VendorAcctGroup	IS_INACTIVE	Always set to FALSE
		Replicated	odp.masterdata.VendorAcctGroup	IS_REPLICATED	Always set to TRUE
Logical System	T000-LOGSYS	Business System	odp.masterdata.VendorAcctGroup	BUSINESS_SYSTEM	
Vendor Account Group	T077K-KTOKK	ID	odp.masterdata.VendorAcctGroup	EXTERNAL_ID	
Vendor Account Group	T077K-KTOKK	Name	odp.masterdata.VendorAcctGroup	NAME	
Account Group Name	T077Y-TXT30	Description	odp.masterdata.VendorAcctGroup	DESCRIPTION	
Number Range Indicator	NRIV-EXTERNIND	Number Range	odp.masterdata.VendorAcctGroup	NUMBER_RANGE	Any value in this field (in ERP) sets the number range as “external”. If this field is empty, the number range is set to “internal”.

The following table lists SAP ERP to SAP Sourcing mapping information for Incoterm.

Table 97: Mapping of Incoterm from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
		Inactive	masterdata.incoterm	IS_INACTIVE	Always set to FALSE
		Replicated	masterdata.incoterm	IS_REPLICATED	Always set to TRUE
Description	TINCT-BEZEI	Name	masterdata.incoterm	NAME	
Description	TINCT-BEZEI	Description	masterdata.incoterm	DESCRIPTION	
Incoterms	TINC-INCO1	ID	masterdata.incoterm	EXTERNAL_ID	
Location madatory	TINC-ORTOB	Location Required	masterdata.incoterm	LOCATION	

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The following table lists SAP ERP to SAP Sourcing mapping information for Regions.

Table 98: Mapping of Regions from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
		Inactive	masterdata.ErpRegion	IS_INACTIVE	Always set to FALSE
			masterdata.ErpRegion	IS_REPLICATED	Always set to TRUE
Description	T005U-BEZEI	Name	masterdata.ErpRegion	NAME	
Description	T005U-BEZEI	Description	masterdata.ErpRegion	DESCRIPTION	
Region	T005S-BLAND	Region Code	masterdata.ErpRegion	EXTERNAL_ID	
Country	T005S-LAND1	Country	masterdata.ErpRegion	LOCATION	

The following table lists SAP ERP to SAP Sourcing mapping information for Unit of Measure ISO Code.

Table 99: Mapping of Unit of Measure ISO Code from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
		Inactive	masterdata.IsoCodeUom	IS_INACTIVE	Always set to FALSE
			masterdata.IsoCodeUom	IS_REPLICATED	Always set to TRUE
ISO code for unit of measurement	T006-ISOCODE	ISO Code	masterdata.IsoCodeUom	ISO_CODE	
ISO code for unit of measurement	T006A-MSEH6	Name	masterdata.IsoCodeUom	DISPLAY_NAME	
Unit of Measurement Text (maximum of 30 characters)	T006A-MSEHL	Description	masterdata.IsoCodeUom	DOCUMENT_DESCRIPTION	

The following table lists SAP ERP to SAP Sourcing mapping information for Unit of Measure.

Table 100: Mapping of Unit of Measure from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic

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		Inactive	masterdata.UnitsOfMeasure	IS_INACTIVE	Always set to FALSE
			masterdata.UnitsOfMeasure	IS_REPLICATED	Always set to TRUE
Unit of Measurement	T006-MSEHI	Display Name	masterdata.UnitsOfMeasure	DISPLAY_NAME	
Unit of Measurement Text	T006A-MSEHT		masterdata.UnitsOfMeasure	LOCALIZED_DISPLAY_NAME	
Unit of Measurement Text (maximum of 30 characters)	T006A-MSEHL	Description	masterdata.UnitsOfMeasure	DOCUMENT_DESCRIPTION	
ISO code for unit of measurement	T006-ISOCODE	ISO Code	masterdata.UnitsOfMeasure	ISO_CODE	
		Default for ISO Code	masterdata.UnitsOfMeasure	DEFAULT_FOR_ISO	
Dimension key	T006T-DIMID	Category	masterdata.UnitsOfMeasure	CATEGORY	
		Conversion Factor	masterdata.UnitsOfMeasure	CONVERSION	
	"0"	Conversion Factor Scale	masterdata.UnitsOfMeasure	CONVERSION_SCALE	
	(blank)	Plug-in	masterdata.UnitsOfMeasure	UNIT_PLUGIN	
			masterdata.UnitsOfMeasure		
Number of decimal places to which rounding occurs.	T006-ANDEC	Synonyms	masterdata.UnitsOfMeasure	SYNONYMS	
		Precision	masterdata.UnitsOfMeasure	PRECISION	
		Scale	masterdata.UnitsOfMeasure	SCALE	
	(blank)	Primary unit	masterdata.UnitsOfMeasure	PRIMARY_UNIT	

The following table lists SAP ERP to SAP Sourcing mapping information for Currency.

Table 101: Mapping of Currency from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic

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		Inactive	masterdata.Currency	IS_INACTIVE	Always set to FALSE
			masterdata.Currency	IS_REPLICATED	Always set to TRUE
ISO currency code	TCURC-ISOCD	Display Name	masterdata.Currency	DISPLAY_NAME	
Long Text	TCURT-LTEXT	Description	masterdata.Currency	DOCUMENT_DESCRIPTION	
	'FALSE'		masterdata.Currency	IN_EURO	
Number of decimal places	TCURX-CURRDEC	Display Scale	masterdata.Currency	DISPLAY_PRECISION	
Number of decimal places	TCURX-CURRDEC	Storage Scale	masterdata.Currency	STORAGE_PRECISION	
ISO currency code	TCURC-ISOCD	Currency ISO Code	masterdata.Currency	ISO_CODE	
Long Text	TCURT-LTEXT		masterdata.Currency	LOCALIZED_DISPLAY_NAME	

The following table lists SAP ERP to SAP Sourcing mapping information for Currency ISO Code.

Table 102: Mapping of Currency ISO Code from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Labell	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
		Inactive	masterdata.IsoCodeCurrency	IS_INACTIVE	Always set to FALSE
			masterdata.IsoCodeCurrency	IS_REPLICATED	Always set to TRUE
ISO currency code	TCURC-ISOCD	ISO Code	masterdata.IsoCodeCurrency	ISO_CODE	
Short Text	TCURT-LTEXT	Name	masterdata.IsoCodeCurrency	DISPLAY_NAME	
Long Text	TCURT-LTEXT	Description	masterdata.IsoCodeCurrency	DOCUMENT_DESCRIPTION	

The following table lists SAP ERP to SAP Sourcing mapping information for Unit of Measurement Category.

Table 103: Mapping of Unit of Measurement Category from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Labell	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic

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Dimension Key	DIMID	Display Name ID	masterdata.ValueListValue	DISPLAY_NAME_ID	The values “erp.dimension $vlv.unit_category”, “DIMID”, and “name'” are concatenated.
Dimension Key	T006T-DIMID	Display Name	masterdata.ValueListValue	DISPLAY_NAME	
Text	unit_category		masterdata.ValueListValue	PARENT	
Dimension Text	T006T-TXDIM	Alternate Name	masterdata.ValueListValue	ALTERNATE_NAME	
	space	Description	masterdata.ValueListValue	DESCRIPTION_ID	

The following table lists SAP ERP to SAP Sourcing mapping information for Unit of Measurement Category Texts.

Table 104: Mapping of Unit of Measurement Category Texts from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
				BUNDLE	The value is always set to “erp.dimension”.
Dimension Key	T006T-DIMID			RESOURCE_ID	The values “erp.dimension $vlv.unit_category”, “DIMID”, and “name'” are concatenated.
				RESOURCE_KIND	The value is always set to “APP_TEXT”.
Dimension Text	TCURT-LTEXT			DEFAULT_VALUE	
				RESOURCE_CATEGORY	The value is always set to “XTXT”.

6.2.2 Mapping of Material Master Data from SAP ERP to SAP Sourcing

The following table shows how material master data is mapped from SAP ERP to SAP Sourcing.

SAP ERP interface: IDoc MATMAS05

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SAP Sourcing interface: MI_IB_Material

Table 105: Mapping of Material Master Data from SAP ERP to SAP Sourcing

SAP ERP Field Label	IDoc Segment	IDoc Segment Field	SAP Sourcing Field Label	SAP Sourcing Interface Object Class Name	SAP Sourcing Interface Object Field
Material Type	E1MARAM	MTART	Product Type	masterdata.Material	PRODUCT_TYPE
Material	E1MARAM	MATNR	External ID	masterdata.Material	EXTERNAL_ID
Material	E1MARAM	MATNR	External Name	masterdata.Material	EXTERNAL_NAME
Material	E1MARAM	MATNR	Display Name	masterdata.Material	NAME
Material Description (Short Text)	E1MAKTM	MAKTX	Description	masterdata.Material	*Value* field below DESCRIPTION node
Material Description Language	E1MAKTM	SPRAS_ISO	Language	masterdata.Material	*Language* attribute below DESCRIPTION node
Base Unit of Measure	E1MARAM	MEINS	Base Unit	masterdata.Material	BASE_UNIT
Order Unit	E1MARAM	BSTME	Order Unit	masterdata.Material	ORDER_UNIT
Material Group	E1MARAM	MATKL	Product Category	masterdata.Material	INTERNAL_CAT
Material Type	E1MARAM	MTART	Product Type	masterdata.Material	PRODUCT_TYPE
Mark Material for Deletion (See *Extra Mapping Logic* below.)	E1MARAM	LVORM	Inactive	masterdata.Material	INACTIVE
Sender Partner Number	EDI_DC40	SNDPRN	Business System	masterdata.Material	BUSINESS_SYSTEM
Plant	E1MARCM	WERKS	Plant	Masterdata.ProductPlant	PLANT
Mark for Deletion at Plant Level	E1MARCM	LVORM	Delete	Masterdata.ProductPlant	*Delete* attribute

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SAP ERP Field Label	IDoc Segment	IDoc Segment Field	SAP Sourcing Field Label	SAP Sourcing Interface Object Class Name	SAP Sourcing Interface Object Field
(See *Extra Mapping Logic* below.)					

Extra Mapping Logic

The following table contains extra mapping logic for certain fields.

Table 106: Extra Mapping Logic

SAP ERP Field Label	Extra Mapping Logic
Mark Material for Deletion	If the material is flagged for deletion in SAP ERP, the product will be inactivated in SAP Sourcing.
Mark for Deletion at Plant Level	If the material/plant relation is flagged for deletion in SAP ERP, the product/plant relation will be deleted in SAP Sourcing.

6.2.3 Mapping of Vendor Master Data from SAP ERP to SAP Sourcing

The following table shows how vendor master data is mapped from SAP ERP to SAP Sourcing.

SAP ERP interface: IDoc CREMAS05

SAP Sourcing interface: MI_IB_Supplier

Table 107: Mapping of Vendor Master Data from SAP ERP to SAP Sourcing

SAP ERP Field Label	IDoc Segment	IDoc Segment Field	SAP Sourcing Field Label	SAP Sourcing Interface Object Class Name	SAP Sourcing Interface Object Field
Vendor	E1LFA1M	LIFNR	External ID	Masterdata.vendor	EXTERNAL_ID
Name	E1LFA1M	NAME1	Display Name	Masterdata.vendor	DISPLAY_NAME
Name 2	E1LFA1M	NAME2	Abbreviated Name	Masterdata.vendor	NAME_2
Name 3	E1LFA1M	NAME3	Alternative Name	Masterdata.vendor	NAME_3
Search Term 1/2	E1LFA1M	SORTL	Keywords	Masterdata.vendor	KEYWORDS
Street/House Number, Supplement	E1LFA1M	STRAS	Address 1	Masterdata.vendor	ORDER_ADDRESS_1
District	E1LFA1M	ORT02	District	Masterdata.vendor	DISTRICT
Postal Code	E1LFA1M	PSTLZ	Postal/ZIP Code	Masterdata.vendor	ORDER_POSTAL_CODE

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SAP ERP Field Label	IDoc Segment	IDoc Segment Field	SAP Sourcing Field Label	SAP Sourcing Interface Object Class Name	SAP Sourcing Interface Object Field
City	E1LFA1M	ORT01	City	Masterdata.vendor	ORDER_CITY
Country (See *Extra Mapping Logic* below.)	E1LFA1M	LAND1	Country	Masterdata.vendor	ORDER_COUNTRY
Region (See *Extra Mapping Logic* below.)	E1LFA1M	REGIO	ERP Region	Masterdata.vendor	ORDER_ERP_REGION
PO Box	E1LFA1M	PFACH	PO Box	Masterdata.vendor	ORDER_PO_BOX
Postal Code	E1LFA1M	PSTL2	PO Box Postal Code	Masterdata.vendor	ORDER_PBOX_POSTAL_CODE
Telephone (See *Extra Mapping Logic* below.)	E1LFA1M	TELF1	Main Phone	Masterdata.vendor	ORDER_TELEPHONE_1
Fax (See *Extra Mapping Logic* below.)	E1LFA1M	TELFX	Main Fax	Masterdata.vendor	ORDER_FAX_1
Sender Partner	EDI_DC40	SNDPRN	Business System	Masterdata.vendor	LOG_SYS
Header Text (*Reference Number Sourcing*)	E1LFA1L	TDLINE	External ID	Masterdata.vendor	ALT_EXTERNAL_ID
Block for All Purchasing Organizations	E1LFA1M	SPERM	Inactive	odp.masterdata.VendorLogSys	INACTIVE
Mark for Deletion for All Areas	E1LFA1M	LOEVM	Inactive	odp.masterdata.VendorLogSys	INACTIVE
Sender Partner	EDI_DC40	SNDPRN	Business System	odp.masterdata.VendorLogSys	LOG_SYS
Account Group	E1LFA1M	KTOKK	Vendor Account Group	odp.masterdata.VendorLogSys	VEN_ACCT_GROUP
Vendor	E1LFA1M	LIFNR	External Supplier ID	odp.masterdata.VendorLogSys	EXTERNAL_SUPPLIER_ID
Purchasing Organization	E1LFM1M	EKORG	Purchasing Organization	odp.masterdata.VendorLogSysPOrg	PORG

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SAP ERP Field Label	IDoc Segment	IDoc Segment Field	SAP Sourcing Field Label	SAP Sourcing Interface Object Class Name	SAP Sourcing Interface Object Field
Block for Selected Purchasing Organization (See *Extra Mapping Logic* below.)	E1LFM1M	SPERM	Delete	odp.masterdata.VendorLogSysPOrg	*Delete* attribute
Mark for Deletion for Selected Purchasing Organization (See *Extra Mapping Logic* below.)	E1LFM1M	LOEVM	Delete	odp.masterdata.VendorLogSysPOrg	*Delete* attribute

Extra Mapping Logic

The following table contains extra mapping logic for certain fields.

Table 108: Extra Mapping Logic

SAP ERP Field Label	Extra Mapping Logic
Country	The ISO country code is transferred.
Region	In SAP Sourcing, the key is the country code and region. Therefore, in SAP NetWeaver Process Integration (SAP NetWeaver PI), the country and region are concatenated with an underscore before mapping (for example, US_CA).
Telephone	The SAP ERP fields *Telephone* and *Extension* are concatenated to a single IDoc field and mapped to *Main Phone* of SAP Sourcing supplier.
Fax	The SAP ERP fields *Fax* and *Extension* are concatenated to a single IDoc field and mapped to *Main Fax* of SAP Sourcing supplier.
Block for Selected Purchasing Organization	If the vendor/purchasing organization relation is blocked in SAP ERP, the supplier/purchasing organization relation will be deleted in SAP Sourcing.
Mark for Deletion for Selected Purchasing Organization	If the vendor/purchasing organization relation is marked for deletion in SAP ERP, the supplier/purchasing organization relation will be deleted in SAP Sourcing.

Note

The following additional logic exists in SAP Sourcing for the field EXTERNAL_ID when integration with SAP ERP is enabled:

- If a value is provided for ALT_EXTERNAL_ID, then that value is used for the Supplier's External ID field.

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- If multi-backend integration is enabled for the supplier and no value is provided for ALT_EXTERNAL_ID, then the External ID of the supplier is constructed by concatenating the value in the EXTERNAL_ID field with the value in LOG_SYS field. Eg. 1000@ERPCLNT001.
- In all other cases, the EXTERNAL_ID field remains as provided in the XML file or CSV file.

6.2.4 Mapping of Supplier Master Data from SAP Sourcing to SAP ERP

The following table shows how supplier master data is mapped from SAP Sourcing to SAP ERP.

SAP Sourcing interface: MI_OB_Supplier

SAP ERP interface: IDoc CREMAS05

Table 109: Mapping of Supplier Master Data from SAP Sourcing to SAP ERP

SAP Sourcing Field Label	SAP Sourcing Interface Object Class Name	SAP Sourcing Interface Object Field	SAP ERP Field Label	IDoc Segment	IDoc Segment Field
Display Name	Masterdata.vendor	DISPLAY_NAME	Name	E1LFA1M	NAME1
Abbreviated Name	Masterdata.vendor	NAME_2	Name 2	E1LFA1M	NAME2
Alternative Name	Masterdata.vendor	NAME_3	Name 3	E1LFA1M	NAME3
Keywords	Masterdata.vendor	KEYWORDS	Search Term 1/2	E1LFA1M	SORTL
Address 1	Masterdata.vendor	ORDER_ADDRESS_1	Street	E1LFA1M	STRAS
District	Masterdata.vendor	DISTRICT	District	E1LFA1M	ORT02
Postal/ZIP Code	Masterdata.vendor	ORDER_POSTAL_CODE	Postal Code	E1LFA1M	PSTLZ
City	Masterdata.vendor	ORDER_CITY	City	E1LFA1M	ORT01
Country See *Extra Mapping Logic* below.	Masterdata.vendor	ORDER_COUNTRY	Country	E1LFA1M	LAND1
ERP Region	Masterdata.vendor	ORDER_ERP_REGION	Region	E1LFA1M	REGIO
PO Box	Masterdata.vendor	ORDER_PO_BOX	PO Box	E1LFA1M	PFACH
PO Box Postal Code	Masterdata.vendor	ORDER_PBOX_POSTAL_CODE	Postal Code	E1LFA1M	PSTL2
Main Phone	Masterdata.vendor	ORDER_TELEPHONE_1	Telephone	E1LFA1M	TELF1
Main Fax	Masterdata.vendor	ORDER_FAX_1	Fax	E1LFA1M	TELFX
External ID	Masterdata.vendor	EXTERNAL_ID	Vendor Text	E1LFA1L	TDLINE

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SAP Sourcing Field Label	SAP Sourcing Interface Object Class Name	SAP Sourcing Interface Object Field	SAP ERP Field Label	IDoc Segment	IDoc Segment Field
See *Extra Mapping Logic* below.			(SAP Sourcing reference number maintained in text ID ESIN)		
Vendor Account Group	odp.masterdata.VendorLogSys	EXTERNAL_ID under VEN_ACCT_GROUP	Vendor Account Group	E1LFA1M	KTOKK
Supplier External ID	odp.masterdata.VendorLogSys	EXTERNAL_SUPPLIER_ID	Vendor ID	E1LFA1M	LIFNR
Inactive See *Extra Mapping Logic* below.	odp.masterdata.VendorLogSys	INACTIVE	Centrally Imposed Purchasing Block	E1LFA1M	SPERM
Inactive See *Extra Mapping Logic* below.	odp.masterdata.VendorLogSys	INACTIVE	Central Deletion Flag	E1LFA1M	LOEVM

Extra Mapping Logic

The following table contains extra mapping logic for certain fields.

Table 110: Extra Mapping Logic

SAP Sourcing Field Label	Extra Mapping Logic
Country	The ISO country code is transferred.
External ID	The SAP Sourcing reference supplier number is stored in the SAP ERP text field when the supplier is published from SAP Sourcing to SAP ERP.
Inactive	When an SAP Sourcing supplier record is inactivated either at header level or for a particular SAP ERP system, the central purchasing block and also central deletion flag are set in SAP ERP.

6.2.5 Mapping of SAP ERP RFQ to SAP Sourcing RFP

The following table shows how an SAP ERP RFQ is mapped to an SAP Sourcing RFP. For extra mapping logic, see *Extra Mapping Logic* below.

SAP ERP interface: REQOTE:ORDERS05

SAP Sourcing interface: MI_IB_RFx

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Table 111: Mapping of SAP ERP RFQ to SAP Sourcing RFP

SAP ERP Field Label	IDoc Segment	IDoc Segment Field	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field
RFQ	E1EDK01	BELNR	Title on Header tab	rfx.RFXDoc	DISPLAY_NAME
Purchasing Organization	E1EDK14	ORGID	Purchasing Organization	rfx.RFXDoc	EXTERNAL_ID in the PURCHASING_ORG node.
Sender Partner	EDI_DC40	SNDPRN	Purchasing Organization	rfx.RFXDoc	BUSINESS_SYSTEM in the PURCHASING_ORG node.
Purchasing Group	E1EDK14	ORGID	Purchasing Group	rfx.RFXDoc	EXTERNAL_ID in the PURCHASING_GRP node.
Sender Partner	EDI_DC40	SNDPRN	Purchasing Group	rfx.RFXDoc	BUSINESS_SYSTEM in the PURCHASING_GRP node.
Company Code	E1EDK14	ORGID	Company Code	rfx.RFXDoc	EXTERNAL_COMPANY_CODE
Sender Partner	EDI_DC40	SNDPRN	Company Code	rfx.RFXDoc	BUSINESS_SYSTEM in the COMPANY_CODE node.
Currency	E1EDK01	HWAER	Currency	rfx.RFXDoc	CURRENCY
Target Value	E1EDS01	SUMME	Outline Agreement Value Limit	rfx.RFXDoc	OA_VALUE_LIMIT
Validity Start Date	E1EDK03	DATUM UZEIT	Planned Open Date	rfx.RFXDoc	PLANNED_OPEN_DATE
Quotation Deadline Date	E1EDK03	DATUM UZEIT	RFx Response Due Date	rfx.RFXDoc	DUE_DATE
Validity End Date	E1EDK03	DATUM UZEIT	RFx Response Due Date	rfx.RFXDoc	DUE_DATE
Title	E1EDP19	IDTNR	Title	ontology.LineItemDoc	DISPLAY_NAME
Material	E1EDP19	IDTNR	Material	ontology.LineItemDoc	EXTERNAL_ID in the MATERIAL node.

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SAP ERP Field Label	IDoc Segment	IDoc Segment Field	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field
Sender Partner	EDI_DC40	SNDPRN	Company Code	rfx.RFXDoc	BUSINESS_SYSTEM in the MATERIAL node.
Item Category	E1EDP01	PSTYP	Item Type	ontology.LineItemDoc	LINE_ITEM_TYPE_ENUM
Short Text	E1EDP19 E1EDC01	KTEXT KTXT1	Description on Line Item	ontology.LineItemDoc	DOCUMENT_DESCRIPTION
Material Group	E1EDP01 E1EDC01	MATKL	Product Category	ontology.LineItemDoc	EXTERNAL_ID in the INTERNAL_CAT node.
Sender Partner	EDI_DC40	SNDPRN	Company Code	rfx.RFXDoc	BUSINESS_SYSTEM in the INTERNAL_CAT node.
RFQ Quantity	E1EDP01 E1EDC01	MENGE	Quantity	ontology.LineItemDoc	QUANTITY
Order Unit	E1EDP01 E1EDC01	MENEE	Quantity	ontology.LineItemDoc	QUANTITY
Plant	E1EDP01	WERKS	Plant	ontology.LineItemDoc	EXTERNAL_ID in the PLANT node.
Sender Partner	EDI_DC40	SNDPRN	Company Code	rfx.RFXDoc	BUSINESS_SYSTEM in the PLANT node.
Item Category	E1EDP01	PSTYP	Item Category	ontology.LineItemDoc	ITEM_CAT
Delivery Date	E1EDP20	EDATU	Delivery Date	ontology.LineItemDoc	DELIV_DATE
Item Text ID	E1EDPT1	TDID	Default Line Item Text (Note: This label is found for filter setting on AbsIntegratedDocTypeBo.)	erp.Text (Line item)	TEXT_ID
Item Text	E1EDPT2	TDLINE	Long Description	erp.Text (Line item)	TEXT

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SAP ERP Field Label	IDoc Segment	IDoc Segment Field	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field
			(Note: This label is found on LineItemDoc.)		
Name	E1EDPA1	NAME1	Name	ontology.LineItem Doc	DLVRY_ADDR_ NAME
Street/House Number	E1EDPA1	STRAS	Street	ontology.LineItem Doc	DLVRY_ADDR_ ADDR1
District	E1EDPA1	ORT02	District	ontology.LineItem Doc	DLVRY_ADDR_ DISTRICT
Postal Code	E1EDPA1	PSTLZ	Postal Code	ontology.LineItem Doc	DLVRY_ADDR_ ZIP_CODE
City	E1EDPA1	ORT01	City	ontology.LineItem Doc	DLVRY_ADDR_ CITY
Region	E1EDPA1	REGIO	State	ontology.LineItem Doc	DLVY_ADDR_ REGION
Country	E1EDPA1	LAND1	Country	ontology.LineItem Doc	DLVY_ADDR_ COUNTRY
Identifier for RFQ Document			Relationship (Note: This is the column header in the collection of document links in the RFx document.)	doc.link (Header)	LINK_DEFINITION
RFQ Document	E1EDK01	BELNR	Title (Note: This is the column header in the collection of document links in the RFx document.)	doc.link (Header)	EXT_REF_DOC
Identifier for RFQ Document			Relationship (Note: This is the column header in the collection of document links in the RFx document.)	doc.link (Line item)	LINK_DEFINITION

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SAP ERP Field Label	IDoc Segment	IDoc Segment Field	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field
RFQ Document	E1EDK01	BELNR	Title – when in a collection of document links on the line item detail page. RFQ# / Line# – as the column header in the line item collection. Note: The document ID and the line number are displayed in the same column of the collection, for example: 6000000514 : 00010	doc.link (Line item)	EXT_REF_DOC
RFQ Line Item	E1EDP01	POSEX	Title – when in a collection of document links on the line item detail page. RFQ# / Line# – as the column header in the line item collection. Note: The document ID and the line number are displayed in the same column of the collection, for example: 6000000514 : 00010	doc.link (Line item)	EXT_REF_LINE

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SAP ERP Field Label	IDoc Segment	IDoc Segment Field	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field
Identifier for PR Document			Relationship (Note: This is the column header in the collection of document links in the RFx document.)	doc.link (Line item)	LINK_DEFINITION
PR Document	E1EDP02	BELNR	Title – when in a collection of document links on the line item detail page. PR# / Line# – as the column header in the line item collection. Note: The document ID and the line number are displayed in the same column of the collection, for example: 0010034040 : 00010	doc.link (Line item)	EXT_REF_DOC

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SAP ERP Field Label	IDoc Segment	IDoc Segment Field	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field
PR Line Item	E1EDP02	ZEILE	Title – when in a collection of document links on the line item detail page. PR# / Line# – as the column header in the line item collection. Note: The document ID and the line number are displayed in the same column of the collection, for example: 0010034040 : 00010	doc.link (Line item)	EXT_REF_LINE
Header Text ID	E1EDKT1	TDID	Default Header Item Text (Note: This label is found for filter setting on AbsIntegratedDocTypeBo.)	erp.Text (Header)	TEXT_ID
Header Text	E1EDKT1	TDLINE	Description (Note: This label is found on rfx.RFXDoc.)	erp.Text (Header)	TEXT

Extra Mapping Logic

The following table contains extra mapping logic for certain fields.

Table 112: Extra Mapping Logic

SAP ERP Field Label	Extra Mapping Logic
Purchasing Organization	Map on condition E1EDK14-QUALF = '014'
Purchasing Group	Map on condition E1EDK14-QUALF = '009'
Company Code	Map on condition E1EDK14-QUALF = '011'
Target Value	Map E1EDS01-SUMME on condition E1EDS01-SUMID = ‘009’
Validity Start Date	Map E1EDK03-DATUM on condition E1EDK03-IDDAT = '019'

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SAP ERP Field Label	Extra Mapping Logic
	If E1EDK03-UZEIT is blank, concatenate E1EDK03-UZEIT with '12:00'; otherwise, concatenate E1EDK03-DATUM with E1EDK03-UZEIT
Quotation Deadline Date	If quotation deadline date is not initial, map quotation deadline date into DUE_DATE (map E1EDK03- DATUM on condition E1EDK03-IDDAT = '004') If validity end date is not initial, map validity end date into DUE_DATE (map E1EDK03- DATUM on condition E1EDK03-IDDAT = '020') If E1EDK03-UZEIT is blank, concatenate E1EDK03-DATUM with '23:59' (time); otherwise, concatenate E1EDK03-DATUM with E1EDK03-UZEIT
Validity End Date	If quotation deadline date is not initial, map quotation deadline date into DUE_DATE (map E1EDK03- DATUM on condition E1EDK03-IDDAT = '004') If validity end date is not initial, map validity end date into DUE_DATE (map E1EDK03- DATUM on condition E1EDK03-IDDAT = '020') If E1EDK03-UZEIT is blank, concatenate E1EDK03-DATUM with '23:59' (time); otherwise, concatenate E1EDK03-DATUM with E1EDK03-UZEIT
Title	Map on condition E1EDP01- PSTYP = 0 (material item) & E1EDP19-QUALF = '001' & E1EDP19-IDTNR exists (that is, material exists)
Material	Map on condition E1EDP01- PSTYP = 0 (material item) & E1EDP19-QUALF = '001' & E1EDP19-IDTNR exists (that is, material exists)
Item Category	If E1EDP01-PSTYP = 0 (material item) Map constant "1" If E1EDP01-PSTYP = 9 (service item) Map constant "2"
Short Text	If E1EDP01-PSTYP = 0 (material item) & E1EDP19-QUALF = '001' Map E1EDP19-KTEXT If E1EDP01-PSTYP = 9 (service item) Map E1EDC01-KTXT1
Material Group	If E1EDP01-PSTYP = 0 (material item) Map E1EDP01-MATKL

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SAP ERP Field Label	Extra Mapping Logic
	If E1EDP01-PSTYP = 9 (service item) Map E1EDC01-MATKL
RFQ Quantity	Quantity in SAP Sourcing is represented by concatenation of quantity and unit separated by space If E1EDP01-PSTYP = 0 (material item) Map concatenation of E1EDP01-MENGE and E1EDP01-MENEE If E1EDP01-PSTYP = 9 (service item) Map concatenation of E1EDC01-MENGE and E1EDC01-MENEE
Order Unit	
Delivery Date	If E1EDP20-EZEIT is blank, concatenate E1EDP20-EDATU with '23:59'; otherwise, concatenate E1EDP20-EDATU with E1EDP20-EZEIT
Item Text ID	Retrieve the text ID starting from position 2 (Note: This value is compared with the value in the document type object to determine which text to retain.)
Item Text	Concatenate all texts corresponding to each text ID (Note: Of the concatenated sets of item texts, only one is retained.)
Name	If E1EDKA1 with PARVW = 'WE' is filled, take these data as delivery address for all items; otherwise, on item level, take E1EDPA1 if provided
Street/House Number	If E1EDKA1 with PARVW = 'WE' is filled, take these data as delivery address for all items; otherwise, on item level, take E1EDPA1 if provided
District	If E1EDKA1 with PARVW = 'WE' is filled, take these data as delivery address for all items; otherwise, on item level, take E1EDPA1 if provided
Postal Code	If E1EDKA1 with PARVW = 'WE' is filled, take these data as delivery address for all items; otherwise, on item level, take E1EDPA1 if provided
City	If E1EDKA1 with PARVW = 'WE' is filled, take these data as delivery address for all items; otherwise, on item level, take E1EDPA1 if provided
Region	If E1EDKA1 with PARVW = 'WE' is filled, take these data as delivery address for all items; otherwise, on item level, take E1EDPA1 if provided
Country	If E1EDKA1 with PARVW = 'WE' is filled, take these data as delivery address for all items; otherwise, on item level, take E1EDPA1 if provided

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SAP ERP Field Label	Extra Mapping Logic
Identifier for RFQ Document (Header)	Default to 'SAPINT-ERP_RFQ_Document'
Identifier for RFQ Document (Line item)	Default to 'SAPINT-ERP_RFQ_Document'
Identifier for PR Document	Default to 'SAPINT-ERP_PR_Document'
PR Document	If E1EDP02-QUALF = 016, map E1EDP02-BELNR
PR Line Item	If E1EDP02-QUALF = 016, map E1EDP02-ZEILE
Header Text ID	Retrieve the text ID starting from position 2 (Note: This value is compared with the value in the document type object to determine which text to retain.)
Header Text	Concatenate all texts corresponding to each text ID (Note: Of the concatenated sets of item texts, only one is retained.)

Response Mapping of SAP Sourcing RFP to SAP ERP PR/RFQ

The following table shows the response mapping of an SAP Sourcing RFP to an SAP ERP PR/RFQ. For extra mapping logic, see *Extra Mapping Logic for Response Mapping of SAP Sourcing RFP to SAP ERP PR/RFQ* below.

SAP Sourcing interface: MI_OB_RFx_Response

SAP ERP interface: BBP_ES_PR_RFQ_UPDATE

Table 113: Response Mapping of SAP Sourcing RFP to SAP ERP PR/RFQ

SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
Document ID (Note: Not usually displayed)	rfx.RFXDoc	UNIQUE_DOC_NAME	ES_DOC_NAME, ES_DOC_LINE, ES_DOC_TYPE, and ES_DOC_ID are concatenated and saved as text in customized text ID in corresponding PR item and RFQ item	ES_DOC_NAME	ET_CROSSREF-ES_DOC_NAME
Line Item Number (Note: This is labeled only as a column header in the collection. It is unlabeled on the details page.)	ontology.LineItemDoc	LINE_ITEM_NUMBER	ES_DOC_NAME, ES_DOC_LINE, ES_DOC_TYPE, and ES_DOC_ID are concatenated and saved as text in customized text ID in	ES_DOC_LINE	ET_CROSSREF-ES_DOC_LINE

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
			corresponding PR item and RFQ item		
Document Type (Note: DOC_TYPE of RFx – not displayed)			ES_DOC_NAME, ES_DOC_LINE, ES_DOC_TYPE, and ES_DOC_ID are concatenated and saved as text in customized text ID in corresponding PR item and RFQ item	ES_DOC_TYPE	ET_CROSSREF-ES_DOC_TYPE
Document ID (Note: Not usually displayed)	ontology.LineItem Doc	UNIQUE_DOC_ NAME	ES_DOC_NAME, ES_DOC_LINE, ES_DOC_TYPE, and ES_DOC_ID are concatenated and saved as text in customized text ID in corresponding PR item and RFQ item	ES_ID	ET_CROSSREF-ES_ID
Title – when in a collection of document links on the line item detail page. PR# / Line# – as the column header in the line item collection. Note: The document ID and the line number are displayed in the same column of the collection, for example: 0010034040 : 00010	doc.link (Line item)	EXT_REF_DOC	To identify which PR document to update	ERP_PR_ID	ET_CROSSREF-ERP_PR_ID
Title – when in a collection of document links on	doc.link (Line item)	EXT_REF_LINE	To identify which PR item to update	ERP_PR_ITEM_ID	ET_CROSSREF-ERP_PR_ITEM_ID

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
the line item detail page. PR# / Line# – as the column header in the line item collection. Note: The document ID and the line number are displayed in the same column of the collection, for example: 0010034040 : 00010					
Title – when in a collection of document links on the line item detail page. RFQ# / Line# – as the column header in the line item collection. Note: The document ID and the line number are displayed in the same column of the collection, for example: 6000000514 : 00010	doc.link (Line item)	EXT_REF_DOC	To identify which RFQ document to update	ERP_RFQ_ID	ET_CROSSREF-ERP_RFQ_ID
Title – when in a collection of document links on the line item detail page. RFQ# / Line# – as the column header in the line item collection.	doc.link (Line item)	EXT_REF_LINE	To identify which RFQ item to update	ERP_RFQ_ITEM_ID	ET_CROSSREF-ERP_RFQ_ITEM_ID

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
Note: The document ID and the line number are displayed in the same column of the collection, for example: 6000000514 : 00010					

Extra Mapping Logic for Response Mapping of SAP Sourcing RFP to SAP ERP PR/RFQ

The following table contains extra mapping logic for certain fields.

Table 114: Extra Mapping Logic for Response Mapping of SAP Sourcing RFP to SAP ERP PR/RFQ

SAP Sourcing Field Label	Extra Mapping Logic
Document ID (Note: Not usually displayed)	Map to constant RFQ
Title – when in a collection of document links on the line item detail page. PR# / Line# – as the column header in the line item collection. Note: The document ID and the line number are displayed in the same column of the collection, for example: 0010034040 : 00010	If LINK_DEFINITION = SAPINT-ERP_PR_Document
Title – when in a collection of document links on the line item detail page. RFQ# / Line# – as the column header in the line item collection. Note: The document ID and the line number are displayed in the same column of the collection, for example: 6000000514 : 00010	If LINK_DEFINITION = SAPINT-ERP_RFQ_Document

6.2.6 Mapping of SAP Sourcing RFP Award to SAP ERP Purchase Order

The following table shows how an SAP Sourcing RFP award is mapped to an SAP ERP purchase order.

SAP Sourcing interface: MI_OB_AWARD_TO_PURCHASE_ORDER

SAP ERP interface: BBP_ES_PO_CREATE

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Table 115: Mapping of SAP Sourcing RFP Award to SAP ERP Purchase Order

SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
Company Code	rfx.RFXDoc	EXTERNAL_ID in the COMPANY_CODE node.	Company Code	PO_HEADER	COMP_CODE
Transaction Type	rfx.RFXDoc	EXTERNAL_ID in the TRANSACTION_TYPE node.	Purchasing Document Type	PO_HEADER	DOC_TYPE
Created By	rfx.RFXDoc	CREATED_BY_USER	Name of Person Who Created Object	PO_HEADER	CREATED_BY
Supplier ID	rfx.RFXDoc	EXTERNAL_SUPPLIER_ID	Vendor Account Number	PO_HEADER	VENDOR
Payment Terms	rfx.RFXDoc	VEN_PAY_TERM	Terms of Payment Key	PO_HEADER	PMNTTRMS
Purchasing Organization	rfx.RFXDoc	EXTERNAL_ID in the PURCHASING_ORG node.	Purchasing Organization	PO_HEADER	PURCH_ORG
Purchasing Group	rfx.RFXDoc	EXTERNAL_ID in the PURCHASING_GRP node.	Purchasing Group	PO_HEADER	PUR_GROUP
Currency	rfx.RFXDoc	CURRENCY	Currency Key	PO_HEADER	CURRENCY
ERP Start Date	rfx.RFXDoc	ERP_START_DATE	Start of Validity Period	PO_HEADER	VPER_START
ERP End Date	rfx.RFXDoc	ERP_END_DATE	End of Validity Period	PO_HEADER	VPER_END
NA	NA	Constant=1	Price condition Header Node	POCONDHEADER	SERIAL_ID
NA	NA	For every header price condition in Award	Price condition Header Item node	POCONDHEADER-item	
NA	NA	Counter starts from 1	Sequential Number of the Condition	POCONDHEADER-item	COND_COUNT
Condition Type ID	eso.doccommon.pricing	PC_ID	Condition Type	POCONDHEADER-item	COND_TYPE

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
	condition.supplement				
Amount/ Percent (See *Extra Mapping* Logic	eso.doccommon.pricing condition.supplement	UNIT, AMOUNT, PERCENT	Sequential Number of the Condition	POCONDHEADER-item	COND_VALUE
Currency (See *Extra Mapping Logic* below.)	eso.doccommon.pricing condition.supplement	CURRENCY, UNIT	ISO Code Currency	POCONDHEADER-item	CURRENCY_ISO
NA	NA	Constant= I		POCONDHEADER-item	CHANGE_ID
Line Item Number	ontology.LineItemDoc	LINE_ITEM_NUMBER	Item Number of Purchasing Document	POITEM	PO_ITEM
Description	ontology.LineItemDoc	DOCUMENT_DESCRIPTION	Short Text	POITEM	SHORT_TEXT
Product ID	ontology.LineItemDoc	EXTERNAL_ID in the MATERIAL node.	Material Number	POITEM	MATERIAL
Plant	ontology.LineItemDoc	EXTERNAL_ID in the BLI_PLANT node.	Plant	POITEM	PLANT
Product Category	ontology.LineItemDoc	EXTERNAL_ID in the CATEGORY node.	Material Group	POITEM	MATL_GROUP
Quantity Item Type	ontology.LineItemDoc	QUANTITY LINE_ITEM_TYPE_ENUM	Purchase Order Quantity	POITEM	QUANTITY
Quantity Item Type	ontology.LineItemDoc	QUANTITY LINE_ITEM_TYPE_ENUM	Order Unit in ISO Code	POITEM	PO_UNIT_ISO
Unit Price (see Extra Mapping Logic)	ontology.LineItemDoc	UNIT_PRICE	Currency Amount	POITEM	NET_PRICE
Price Unit	ontology.LineItemDoc	PRICE_UNIT	Price Unit	POITEM	PRICE_UNIT

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
Item Type	ontology.LineItem Doc	LINE_ITEM_ TYPE_ENUM	Item Cat.	POITEM	ITEM_CAT
Incoterms	ontology.LineItem Doc	DELIVERY_TERM	Incoterms (Part 1)	POITEM	INCOTERMS1
Incoterms Location	ontology.LineItem Doc	DELIVERY_TERM_ LOCATION	Incoterms (Part 2)	POITEM	INCOTERMS2
ERP Document and External Reference	doc.link	LINK_DEFINITION and EXT_REF_DOC	RFQ Number	POITEM	RFQ_NO
External Reference	doc.link	LINK_DEFINITION and EXT_REF_LINE	Item Number of RFQ	POITEM	RFQ_ITEM
External Reference	rfx.RFXDoc	RFX_UNIQUE_ DOC_NAME	Document Number of External Document	POITEM	EXT_RFX_ NUMBER
External Reference	ontology.LineItem Doc	LINE_ITEM_ NUMBER	Item Number of External Document	POITEM	EXT_RFX_ITEM
NA	NA	PI System Parameter	Logical System	POITEM	EXT_RFX_SYSTEM
Line Item Number	scenario.accepted _line_item	LINE_ITEM_ NUMBER	Item Number of Purchasing Document	POCOND-item	ITEM_NO
NA	NA	COND_COUNT of the ITEM_CONDITION to which this item belongs.	Sequential Number of the Condition	POCOND-item	COND_COUNT
Condition Type ID	eso.doccommon.p ricingcondition.sup plement	PC_ID	Condition Type	POCOND-item	COND_TYPE
Amount/Percent (See Extra Mapping Logic below)	eso.doccommon.p ricingcondition.sup plement	UNIT, AMOUNT, PERCENT	Condition Amount	POCOND-item	COND_VALUE
Currency (See Extra Mapping Logic below)	scenario.accepted _ pro- posal	CURRENCY, UNIT	ISO Code Currency	POCOND-item	CUR- RENCY_ISO

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
ISO Code in System Administration	scenario.accepted_line_item	QUANTITY	Condition Unit of Measure in ISO	POCOND-item	COND_UNIT_ ISO
Price Unit	scenario.accepted_line_item	PRICE_UNIT	Condition Pricing Unit	POCOND-item	COND_P_UNT
NA	NA	Constant=I		POCOND-item	CHANGE_ID
Line Item Number	ontology.LineItem Doc	LINE_ITEM_ NUMBER	Item Number of Purchasing Document	POCOND-item	PO_ITEM
Line Item Number	ontology.LineItem Doc	LINE_ITEM_ NUMBER	Delivery Schedule Line Number	POSCHEDULE	SCHED_LINE
Delivery Date	ontology.LineItem Doc	SLI_DELIV_DATE	Delivery Date	POSCHEDULE	DELIVERY_DATE
Quantity	ontology.LineItem Doc	QUANTITY	Scheduled Quantity	POSCHEDULE	QUANTITY
External Reference	ontology.LineItem Doc	LINK_DEFINITION and EXT_REF_DOC	Purchase Requisition Number	POSCHEDULE	PREQ_NO
External Reference	ontology.LineItem Doc	LINK_DEFINITION and EXT_REF_LINE	Item Number of Purchase Requisition	POSCHEDULE	PREQ_ITEM
Default Header Text	rfx.RFXDoc	RFX_DESCRIPTIO N and EXTERNAL_ID in the RFX_HDR_ TEXT_ID node.	Text ID	POTEXTHEADER	TEXT_ID
Description	rfx.RFXDoc	RFX_DESCRIPTIO N and EXTERNAL_ID in the RFX_HDR_ TEXT_ID node.	Text Line	POTEXTHEADER	TEXT_LINE
Line Item Number	ontology.LineItem Doc and rfx.RFXDoc	LINE_ITEM_ NUMBER, BLI_LONG_ DESC, and EXTERNAL_ID in the RFX_ITEM_ TEXT_ID node.	Item Number of Purchasing Document	POTEXTITEM	PO_ITEM

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
Default Line Item Text	ontology.LineItem Doc and rfx.RFXDoc	BLI_LONG_ DESC, and EXTERNAL_ID in the RFX_ITEM_ TEXT_ID node.	Text ID	POTEXTITEM	TEXT_ID
Long Description	ontology.LineItem Doc and rfx.RFXDoc	RFX_UNIQUE_DOC_NAME, LINE_ITEM_ NUMBER, UNIQUE_DOC_ NAME, and EXTERNAL_ID in the RFX_ITEM_ TEXT_ID node.	Text Line	POTEXTITEM	TEXT_LINE
Quantity	ontology.LineItem Doc	QUANTITY	Quantity	PO_SRV_LINE	MENGE
Quantity	ontology.LineItem Doc	QUANTITY	Un (Unit of Measure)	PO_SRV_LINE	MEINS_ISO
Price Unit	ontology.LineItem Doc	PRICE_UNIT	Gross Price	PO_SRV_LINE	PEINH
Description	ontology.LineItem Doc	DOCUMENT_DESCRIPTION	Short Text	PO_SRV_LINE	KTEXT1
Incoterm Description – Extended Price	ontology.LineItem Doc	TOTAL_COST	NET_PRICE	PO_SRV_LINE	TBTWR
Line Item Number	ontology.LineItem Doc	LINE_ITEM_ NUMBER	Service No.	PO_SRV_TEXT	ITEM_NO
Line Item Number	ontology.LineItem Doc	LINE_ITEM_ NUMBER	NA	PO_SRV_TEXT	EXTROW
Default Line Item Text	ontology.LineItem Doc rfx.RFXDoc	BLI_LONG_ DESC, and EXTERNAL_ID in the RFX_ITEM_ TEXT_ID node. FOLLOWON_DOCTYPE	TEXT_ID	PO_SRV_TEXT	TEXT_ID
Long Description	ontology.LineItem Doc rfx.RFXDoc	LINE_ITEM_TYPE_ENUM, DOCUMENT_DESCRIPTION	Text Line	PO_SRV_TEXT	TEXT_LINE

The table below contains extra mapping logic for the following fields:

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Table 116: Extra Mapping Logic

SAP Sourcing Field Label	Extra Mapping Logic
Amount/Percent	COND_VALUE is set to AMOUNT or PERCENT based on the value of UNIT.
Currency	Either CURRENCY or "P1" is mapped to CURRENCY_ISO based on the value of UNIT. "P1" specifies that a percentage value is used.
Unit Price	NET_PRICE is set only if it is a service line item. For material line items, price condition values are used.

6.2.7 Mapping of SAP Sourcing RFP Award to SAP ERP Outline Agreement

The following table shows how an SAP Sourcing RFP award is mapped to an SAP ERP outline agreement.

SAP Sourcing interface: MI_OB_AWARD_TO_OA

SAP ERP interface: BBP_ES_OA_UPDATE

Table 117: Mapping of SAP Sourcing RFP Award to SAP ERP Outline Agreement

SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
NA	scenario.accepted_proposal	FOLLOWON_DOC TYPE	ES Document Number (Master Agreement)	CROSSREF	ES_DOC_TYPE
RFx	scenario.accepted_proposal	RFX_UNIQUE_ DOC_NAME	ES RFx Number	CROSSREF	ES_RFX_NUMBER
NA	scenario.accepted_proposal	UNIQUE_DOC_ NAME	ES Master Agreement Name	CROSSREF	ES_MA_NAME
Default Header Text	scenario.accepted_proposal	FOLLOWON_DOC-TYPE, and EXTERNAL_ID in the RFX_HDR_ TEXT_ID node.	Text ID	CROSSREF	HEAD_TEXT_ID
Default Line Item Text	scenario.accepted_proposal	FOLLOWON_DOC-TYPE, and EXTERNAL_ID in the RFX_HDR_ TEXT_ID node.	Text ID	CROSSREF	ITEM_TEXT_ID
Company Code	scenario.accepted_proposal	EXTERNAL_ID in the COMPANY_CODE node.	Company Code	HEADER	COMP_CODE

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
Transaction Type	scenario.accepted_proposal	EXTERNAL_ID in the TRANSACTION_TYPE node.	Purchasing Document Type	HEADER	DOC_TYPE
Created By	scenario.accepted_proposal	CREATED_BY_USER	Name of Person Who Created Object	HEADER	CREATED_BY
Supplier ID	scenario.accepted_proposal	EXTERNAL_SUPPLIER_ID	Vendor Account Number	HEADER	VENDOR
Default Language in Supplier Master	scenario.accepted_proposal	USER_LANGUAGE	ISO Code for Language Key	HEADER	LANGU_ISO
Default Payment Term in Supplier Master	scenario.accepted_proposal	VEN_PAY_TERMS	Terms of Payment Key	HEADER	PMNTTRMS
Purchasing Organization	scenario.accepted_proposal	EXTERNAL_ID in the PURCHASING_ORG node.	Purchasing Organization	HEADER	PURCH_ORG
Purchasing Group	scenario.accepted_proposal	EXTERNAL_ID in PURCHASING_GRP node.	Purchasing Group	HEADER	PUR_GROUP
Currency	scenario.accepted_proposal	CURRENCY	ISO Code Currency	HEADER	CURRENCY_ISO
Base Date	scenario.accepted_proposal	BASE_DATE	Purchasing Document Date	HEADER	DOC_DATE
ERP Start Date	scenario.accepted_proposal	ERP_START_DATE	Validity Start	HEADER	VPER_START
ERP End Date	scenario.accepted_proposal	ERP_END_DATE	Validity End	HEADER	VPER_END
Outline Agreement Value Limit	scenario.accepted_proposal	OA_VALUE_LIMIT	Target Value for Header Area per Distribution	HEADER	ACUM_VALUE
Default Header Text	scenario.accepted_proposal	RFX_DESCRIPTION, and EXTERNAL_ID in the RFX_HDR_TEXT_ID node. FOLLOWON_DOCTYPE	Text ID	HEADER_TEXT	TEXT_ID

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
NA	scenario.accepted_proposal	RFX_DESCRIPTION, and EXTERNAL_ID in the RFX_HDR_TEXT_ID node.	Tag Column	HEADER_TEXT	TEXT_FORM
Description	scenario.accepted_proposal	RFX_DESCRIPTION, and EXTERNAL_ID in the RFX_HDR_TEXT_ID node.	Text Line	HEADER_TEXT	TEXT_LINE
NA	NA	Constant=1	Number of a Condition Record	HEAD_CONDITION	SERIAL_ID
NA	NA	Counter starts from 1	Sequential Number of the Condition	HEAD_CONDITION	COND_COUNT
Condition Type ID	eso.doccommon.pricingcondition.supplement	PC_ID	Condition Type	HEAD_CONDITION	COND_TYPE
Currency	scenario.accepted_ proposal	CURRENCY	ISO Code Currency for Scales	HEAD_CONDITION	SCALE_CURR_ISO
Amount/Percent (See *Extra Mapping Logic* below.)	eso.doccommon.pricingcondition.supplement	UNIT, AMOUNT, PERCENT	Condition Amount	HEAD_CONDITION	COND_VALUE
Currency (See *Extra Mapping Logic* below.)	scenario.accepted_ proposal eso.doccommon.pricingcondition.supplement	CURRENCY, UNIT	ISO Code Currency	HEAD_CONDITION	CURRENCY_ISO
NA	NA	Constant=1	Number of a Condition Record	HEAD_COND_SCALE_VAL	SERIAL_NO
NA	NA	Counter starts from 1	Sequential Number of the Condition	HEAD_COND_SCALE_VAL	COND_COUNT
From/To (See *Extra Mapping Logic* below.)	eso.doccommon.pricingcondition.scale	VOLUME_THRESHOLD	Currency Amount	HEAD_COND_SCALE_VAL	SCALE_BASE_VALUE

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
Amount/Percent (See *Extra Mapping Logic* below.)	eso.doccommon.pricingcondition.supplement eso.doccommon.pricingcondition.scale	UNIT, AMOUNT, PERCENT	Currency Amount	HEAD_COND_SCALE_VAL	COND_VALUE
NA	NA	Constant=1	Number of a Condition Record	HEAD_COND_VALIDITY	SERIAL_ID
ERP Start Date	scenario.accepted_proposal	ERP_START_DATE	Validity Start Date of Condition Record	HEAD_COND_VALIDITY	VALID_FROM
ERP End Date	scenario.accepted_proposal	ERP_END_DATE	Validity End Date of Condition Record	HEAD_COND_VALIDITY	VALID_TO
Line Item Number	scenario.accepted_line_item	LINE_ITEM_NUMBER	Item Number of Purchasing Document	ITEM	ITEM_NO
Description	scenario.accepted_line_item	DOCUMENT_DESCRIPTION	Short Text	ITEM	SHORT_TEXT
Product ID	scenario.accepted_line_item	EXTERNAL_ID in the MATERIAL node. LINE_ITEM_TYPE_ENUM	Material Number	ITEM	MATERIAL
Plant	scenario.accepted_line_item	EXTERNAL_ID in the BLI_PLANT node.	Plant	ITEM	PLANT
Product Category	scenario.accepted_line_item	EXTERNAL_ID in the CATEGORY node.	Material Group	ITEM	MATL_GROUP
Quantity	scenario.accepted_line_item	QUANTITY LINE_ITEM_TYPE_ENUM	Target Quantity	ITEM	TARGET_QTY
Quantity	scenario.accepted_line_item	QUANTITY LINE_ITEM_TYPE_ENUM	Order Unit in ISO Code	ITEM	PO_UNIT_ISO

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
ISO Code in System Administration	scenario.accepted_line_item	QUANTITY LINE_ITEM_TYPE_ENUM	ISO Code for Purchase Order Price Unit	ITEM	ORDERPR_UN_ISO
NA	scenario.accepted_line_item	Constant = 1	Numerator for Conversion of Order Price Unit into Order Unit	ITEM	CONV_NUM1
NA	scenario.accepted_line_item	Constant = 1	Denominator for Conversion of Order Price Unit into Order Unit	ITEM	CONV_DEN1
Total Price	scenario.accepted_line_item	UNIT_PRICE LINE_ITEM_TYPE_ENUM	Currency Amount	ITEM	NET_PRICE
Item Type	scenario.accepted_line_item	LINE_ITEM_TYPE_ENUM	Item Category	ITEM	ITEM_CAT
Incoterms	scenario.accepted_line_item	DELIVERY_TERM	Incoterms (Part 1)	ITEM	INCOTERMS1
Incoterms Location	scenario.accepted_line_item	DELIVERY_TERM_LOCATION	Incoterms (Part 2)	ITEM	INCOTERMS2
External Reference	doc.link	LINK_DEFINITION and Constant = SAPINT-ERP_RFQ_Document and EXT_REF_DOC	RFQ Number	ITEM	RFQ_NO
External Reference	doc.link	LINK_DEFINITION and Constant = SAPINT-ERP_RFQ_Document and EXT_REF_LINE	Item Number of RFQ	ITEM	RFQ_ITEM
External Reference	doc.link	LINK_DEFINITION and Constant = SAPINT-ERP_PR_Document and EXT_REF_DOC	Purchase Requisition Number	ITEM	PREQ_NO

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
External Reference	doc.link	LINK_DEFINITION and Constant = SAPINT-ERP_PR_Document and EXT_REF_LINE	Item Number of Purchase Requisition	ITEM	PREQ_ITEM
Line Item Number	scenario.accepted_line_item	LINE_ITEM_NUMBER	Item Number of Purchasing Document	ITEM_CONDITION	ITEM_NO
Line Item Number	scenario.accepted_line_item	LINE_ITEM_NUMBER	Number of a Condition Record	ITEM_CONDITION	SERIAL_ID
NA	NA	Counter starts from 1 for each material	Sequential Number of the Condition	ITEM_CONDITION	COND_COUNT
Condition Type ID	eso.doccommon.pricingcondition.supplement	PC_ID	Condition Type	ITEM_CONDITION	COND_TYPE
ISO Code in System Administration	scenario.accepted_line_item	QUANTITY	Condition Unit of Measure in ISO	ITEM_CONDITION	SCALE_UNIT_ISO
Amount/Percent (See *Extra Mapping Logic* below.)	eso.doccommon.pricingcondition.supplement	UNIT, AMOUNT, PERCENT	Condition Amount	ITEM_CONDITION	COND_VALUE
Currency (See *Extra Mapping Logic* below.)	scenario.accepted_ proposal eso.doccommon.pricingcondition.supplement	CURRENCY, UNIT	ISO Code Currency	ITEM_CONDITION	CURRENCY_ISO
Price Unit	scenario.accepted_line_item	PRICE_UNIT	Condition Pricing Unit	ITEM_CONDITION	COND_P_UNT
ISO Code in System Administration	scenario.accepted_line_item	QUANTITY	Condition Unit of Measure in ISO	ITEM_CONDITION	COND_UNIT_ISO
Line Item Number	scenario.accepted_line_item	LINE_ITEM_NUMBER	Item Number of Purchasing Document	ITEM_COND_SCALE_QUAN	ITEM_NO
Line Item Number	scenario.accepted_line_item	LINE_ITEM_NUMBER	Number of a Condition Record	ITEM_COND_SCALE_QUAN	SERIAL_NO

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
NA	NA	COND_COUNT of the ITEM_CONDITION this item belongs to	Sequential Number of the Condition	ITEM_COND_ SCALE_QUAN	COND_COUNT
From/To (See *Extra Mapping Logic* below.)	eso.doccommon.pricingcondition.scale	UNIT_THRESHOLD	Condition Scale Quantity	ITEM_COND_ SCALE_QUAN	SCALE_BASE_QTY
Amount/Percent (See *Extra Mapping Logic* below.)	eso.doccommon.pricingcondition.supplement eso.doccommon.pricingcondition.scale	UNIT, AMOUNT, PERCENT	Currency Amount	ITEM_COND_ SCALE_QUAN	COND_VALUE
Line Item Number	scenario.accepted_line_item	LINE_ITEM_ NUMBER	Item Number of Purchasing Document	ITEM_COND_ VALIDITY	ITEM_NO
Line Item Number	scenario.accepted_line_item	LINE_ITEM_ NUMBER	Number of a Condition Record	ITEM_COND_ VALIDITY	SERIAL_ID
ERP Start Date	scenario.accepted_proposal	VALID_FROM	Validity Start Date of Condition Record	ITEM_COND_ VALIDITY	VALID_FROM
ERP End Date	scenario.accepted_proposal	VALID_TO	Validity End Date of Condition Record	ITEM_COND_ VALIDITY	VALID_TO
Line Item Number	scenario.accepted_line_item scenario.accepted_proposal	LINE_ITEM_ NUMBER, BLI_LONG_ DESC, and EXTERNAL_ID in the RFX_ITEM_ TEXT_ID node.	Item Number of Purchasing Document	ITEM_TEXT	ITEM_NO
Default Line Item Text	scenario.accepted_line_item scenario.accepted_proposal	BLI_LONG_ DESC, and EXTERNAL_ID in the RFX_ITEM_ TEXT_ID node. FOLLOWON_DOC TYPE	Text ID	ITEM_TEXT	TEXT_ID
NA	scenario.accepted_line_item	BLI_LONG_ DESC and EXTERNAL_ID	Tag Column	ITEM_TEXT	TEXT_FORM

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
	scenario.accepted_proposal	in the RFX_ITEM_TEXT_ID node.			
Long Description	scenario.accepted_line_item scenario.accepted_proposal	BLI_LONG_ DESC, EXTERNAL_ID in the RFX_ITEM_TEXT_ID node. RFX_UNIQUE_DOC_NAME, PROPOSAL	Text Line	ITEM_TEXT	TEXT_LINE
Line Item Number	scenario.accepted_ line_item	LINE_ITEM_NUMBER	Item Number of Purchasing Document	SRV_COND	ITEM_NO
Line Item Number	scenario.accepted_ line_item	LINE_ITEM_NUMBER	Item Number of Purchasing Document	SRV_COND	EXTROW
Line Item Number	scenario.accepted_ line_item	LINE_ITEM_NUMBER	Number of a Condition Record	SRV_COND	SERIAL_ID
NA	NA	Counter starts from 1 for each service	Sequential Number of the Condition	SRV_COND	COND_COUNT
Condition Type ID	eso.doccommon.pricingcondition.supplement	PC_ID	Condition Type	SRV_COND	COND_TYPE
ISO Code in System Administration	scenario.accepted_ line_item	QUANTITY	Condition Unit of Measure in ISO	SRV_COND	SCALE_UNIT_ISO
Amount/Percent (See *Extra Mapping Logic* below.)	eso.doccommon.pricingcondition.supplement	UNIT, AMOUNT, PERCENT	Condition Amount	SRV_COND	COND_VALUE
Currency (See *Extra Mapping Logic* below.)	scenario.accepted_ proposal eso.doccommon.pricingcondition.supplement	CURRENCY, UNIT	ISO Code Currency	SRV_COND	CURRENCY_ISO
Price Unit	scenario.accepted_ line_item	PRICE_UNIT	Condition Pricing Unit	SRV_COND	COND_P_UNT

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
ISO Code in System Administration	scenario.accepted_line_item	QUANTITY	Condition Unit of Measure in ISO	SRV_COND	COND_UNIT_ISO
Line Item Number	scenario.accepted_line_item	LINE_ITEM_NUMBER	Item Number of Purchasing Document	SRV_COND_SCALE_QUAN	ITEM_NO
Line Item Number	scenario.accepted_line_item	LINE_ITEM_NUMBER	Item Number of Purchasing Document	SRV_COND_SCALE_QUAN	EXTROW
Line Item Number	scenario.accepted_line_item	LINE_ITEM_NUMBER	Number of a Condition Record	SRV_COND_SCALE_QUAN	SERIAL_NO
NA	NA	COND_COUNT of the SRV_COND this item belongs to	Sequential Number of the Condition	SRV_COND_SCALE_QUAN	COND_COUNT
From/To (See *Extra Mapping Logic* below.)	eso.doccommon.pricingcondition.scale	UNIT_THRESHOLD	Condition Scale Quantity	SRV_COND_SCALE_QUAN	SCALE_BASE_QTY
Amount/Percent (See *Extra Mapping Logic* below.)	eso.doccommon.pricingcondition.supplement eso.doccommon.pricingcondition.scale	UNIT, AMOUNT, PERCENT	Currency Amount	SRV_COND_SCALE_QUAN	COND_VALUE
Line Item Number	scenario.accepted_line_item	LINE_ITEM_NUMBER	Item Number of Purchasing Document	SRV_COND_VALIDITY	ITEM_NO
Line Item Number	scenario.accepted_line_item	LINE_ITEM_NUMBER	Item Number of Purchasing Document	SRV_COND_VALIDITY	EXTROW
Line Item Number	scenario.accepted_line_item	LINE_ITEM_NUMBER	Number of a Condition Record	SRV_COND_VALIDITY	SERIAL_ID
ERP Start Date	scenario.accepted_proposal	VALID_FROM	Validity Start Date of Condition Record	SRV_COND_VALIDITY	VALID_FROM
ERP End Date	scenario.accepted_proposal	VALID_TO	Validity End Date of Condition Record	SRV_COND_VALIDITY	VALID_TO

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
Line Item Number	scenario.accepted_line_item	LINE_ITEM_NUMBER	Service No.	SRV_LINE	ITEM_NO
Line Item Number	scenario.accepted_line_item	LINE_ITEM_NUMBER	NA	SRV_LINE	EXTROW
Quantity	scenario.accepted_line_item	QUANTITY	Quantity	SRV_LINE	MENGE
Quantity	scenario.accepted_line_item	QUANTITY	Un (Unit of Measure)	SRV_LINE	MEINS_ISO
Price Unit	scenario.accepted_line_item	PRICE_UNIT	Gross Price	SRV_LINE	PEINH
Description	scenario.accepted_line_item	DOCUMENT_DESCRIPTION	Short Text	SRV_LINE	KTEXT1
Incoterm Description – Extended Price	scenario.accepted_line_item	TOTAL_COST	NET_PRICE	SRV_LINE	TBTWR
Line Item Number	scenario.accepted_line_item	LINE_ITEM_NUMBER	Service No.	SRV_TEXT	ITEM_NO
Line Item Number	scenario.accepted_line_item	LINE_ITEM_NUMBER	NA	SRV_TEXT	EXTROW
Default Line Item Text	scenario.accepted_line_item scenario.accepted_proposal	BLI_LONG_ DESC and EXTERNAL_ID in the RFX_ITEM_TEXT_ID node. FOLLOWON_DOCTYPE	TEXT_ID	SRV_TEXT	TEXT_ID
Long Description	scenario.accepted_line_item	BLI_LONG_ DESC and EXTERNAL_ID in the RFX_ITEM_TEXT_ID node.	NA	SRV_TEXT	TEXT_FORM
Long Description	scenario.accepted_proposal scenario.accepted_line_item	RFX_UNIQUE_DOC_NAME, PROPOSAL, LINE_ITEM_NUMBER, BLI_LONG_ DESC, and EXTERNAL_ID in the RFX_ITEM_TEXT_ID node.	Text Line	SRV_TEXT	TEXT_LINE

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Extra Mapping Logic

The following table contains extra mapping logic for certain fields.

Table 118: Extra Mapping Logic

SAP Sourcing Field Label	Extra Mapping Logic
Amount/Percent	COND_VALUE is set to AMOUNT or PERCENT based on the value of UNIT.
Currency	Either CURRENCY or "P1" is mapped to CURRENCY_ISO based on the value of UNIT. ("P1" identifies that percent value is used.)
From/To	VOLUME_THRESHOLD is mapped to SCALE_BASE_VALUE; UNIT_THRESHOLD is mapped to SCALE_BASE_QTY.

6.2.8 Mapping of SAP Sourcing Master Agreement to SAP ERP Outline Agreement

The following table shows how an SAP Sourcing master agreement is mapped to an SAP ERP outline agreement.

SAP Sourcing interface: MT_AGREEMENT

SAP ERP interface: BBP_ES_OA_UPDATE

Table 119: Mapping of SAP Sourcing Master Agreement to SAP ERP Outline Agreement

SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
Title in Document Links collection table (See *Extra Mapping Logic* below.)	contracts.Contract	EXT_REF_DOC (Based on LINK_DEF)	Purchasing Document Number	HEADER	NUMBER
Currency	contracts.Contract	CURRENCY	ISO Code Currency	HEADER	CURRENCY_ISO
Payment Terms	contracts.Contract	PAYTERMS	Terms of Payment Key	HEADER	PMNTTRMS
Company code	contracts.Contract	EXTERNAL_COMPANY_CODE	Company Code	HEADER	COMP_CODE
Transaction Type (See *Extra Mapping Logic* below.)	contracts.Contract	FOLLOWON_DOCTYPE	ES Document Type	CROSSREF	ES_DOC_TYPE
Transaction Type	contracts.Contract	TRANSACTION_TYPE	Purchasing Document Type	HEADER	DOC_TYPE

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
Supplier	contracts.Contract	EXTERNAL_SUPPLIER_ID	Vendor Account Number	HEADER	VENDOR
Purchasing Organization	contracts.Contract	EXTERNAL_PORG_ID	Purchasing Organization	HEADER	PURCH_ORG
Purchasing Group	contracts.Contract	PURCHASING_GRP	Purchasing Group	HEADER	PUR_GROUP
Created By: (Timestamp)	contracts.Contract	BASE_DATE	Purchasing Document Date	HEADER	DOC_DATE
Effective Date	contracts.Contract	EFFECTIVE_DATE	Start of Validity Period	HEADER	VPER_START
Expiration Date	contracts.Contract	EXPIRATION_DATE	End of Validity Period	HEADER	VPER_END
Agreement Maximum	contracts.Contract	LIMIT_VALUE	Target Value for Header Area per Distribution	HEADER	ACUM_VALUE
Not visible on user interface	contracts.Contract	USER_LANGUAGE	ISO Code for Language Key	HEADER	LANGU_ISO
Default Header Text in corresponding document type	contracts.Contract	HDR_TEXT_ID	Text ID	HEADER_TEXT	TEXT_ID
NA (See *Extra Mapping Logic* below.)	NA	HDR_TEXT_ID	Tag Column	HEADER_TEXT	TEXT_FORM
Description (See *Extra Mapping Logic* below.)	contracts.Contract	DOCUMENT_DESCRIPTION	Text Line	HEADER_TEXT	TEXT_LINE
Incoterms	contracts.Contract	DELIVERY_TERM	Incoterms (Part 1)	HEADER	INCOTERMS1
Incoterm Location	contracts.Contract	DEL_TERM_LOC	Incoterms (Part 2)	HEADER	INCOTERMS2
NA	NA	Constant=1	Number of a Condition Record	HEAD_CONDITION	SERIAL_ID
NA	NA	Counter starts from 1	Sequential Number of the Condition	HEAD_CONDITION	COND_COUNT

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
Condition Type ID	eso.doccommon.pricingcondition.supplement	PC_ID	Condition Type	HEAD_CONDITION	COND_TYPE
Currency	contracts.Contract	CURRENCY	ISO Code Currency for Scales	HEAD_CONDITION	SCALE_CURR_ISO
Amount/Percent (See *Extra Mapping Logic* below.)	eso.doccommon.pricingcondition.supplement	UNIT, AMOUNT, PERCENT	Condition Amount	HEAD_CONDITION	COND_VALUE
Currency (See *Extra Mapping Logic* below.)	contracts.Contract eso.doccommon.pricingcondition.supplement	CURRENCY, UNIT	ISO Code Currency	HEAD_CONDITION	CURRENCY_ISO
NA	NA	Constant=1	Number of a Condition Record	HEAD_COND_VALIDITY	SERIAL_ID
Effective Date	contracts.Contract	EFFECTIVE_DATE	Validity Start Date of Condition Record	HEAD_COND_VALIDITY	VALID_FROM
Expiration Date	contracts.Contract	EXPIRATION_DATE	Validity End Date of Condition Record	HEAD_COND_VALIDITY	VALID_TO
Line Item Number	contracts.LineItem	LINE_ITEM_NUMBER	Item Number of Purchasing Document	ITEM	ITEM_NO
Description	contracts.LineItem	DOCUMENT_DESCRIPTION	Material Short Text	ITEM	SHORT_TEXT
Material (See *Extra Mapping Logic* below.)	contracts.LineItem	MATERIAL	Material Number	ITEM	MATERIAL
Supplier Part Number	contracts.LineItem	VENDOR_PART_NUM	Material Number Used by Vendor	ITEM	VEND_MAT
Plant	contracts.LineItem	PLANT	Plant	ITEM	PLANT
Product Category	contracts.LineItem	INTERNAL_CAT	Material Group	ITEM	MATL_GROUP
Contracted Quantity	contracts.LineItem	QUANTITY ISO Unit of Measure is to be used	Target Quantity	ITEM	TARGET_QTY

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
(See *Extra Mapping Logic* below.)					
Contract Quantity	contracts.LineItem	QUANTITY Field contains unit of measure	Order Unit in ISO Code	ITEM	PO_UNIT_ISO
NA	contracts.LineItem	QUANTITY	ISO Code for Purchase Order Price Unit	ITEM	ORDERPR_UN_ISO
Unit Price	contracts.LineItem	UNIT_PRICE	Currency Amount	ITEM	NET_PRICE
Price Unit	contracts.LineItem	PRICE_UNIT	Price Unit	ITEM	PRICE_UNIT
Delivery Lead Time (Days)	contracts.LineItem	DELIVERY_LEAD	Planned Delivery Time	ITEM	PLAN_DEL
No label	contracts.LineItem	DELIVERY_TERMS	Incoterms (Part 1)	ITEM	INCOTERMS1
No label (See *Extra Mapping Logic* below.)	contracts.LineItem	AWARDED_INCOTERM_LOCATION	Incoterms (Part 2)	ITEM	INCOTERMS2
Item Type (See *Extra Mapping Logic* below.)	contracts.LineItem	LINE_ITEM_TYPE_ENUM	Item Category	ITEM	ITEM_CAT
NA	contracts.LineItem	ITEM_CAT	Item Category in Purchasing Document	OA_ITEMS	ITEM_CAT
Line Item Number	contracts.LineItem	LINE_ITEM_NUMBER	Item Number of Purchasing Document	ITEM_COND_VALIDITY	ITEM_NO
Line Item Number	contracts.LineItem	LINE_ITEM_NUMBER	Number of a Condition Record	ITEM_COND_VALIDITY	SERIAL_ID
Unit Price Date Begin	contracts.LineItem	UP_BEGIN	Validity Start Date of Condition Record	ITEM_COND_VALIDITY	VALID_FROM
Unit Price Date End	contracts.LineItem	UP_END	Validity End Date of Condition Record	ITEM_COND_VALIDITY	VALID_TO

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
Title in Document Links table of header (See *Extra Mapping Logic* below.)	doc.link	EXT_REF_DOC	RFQ Number	ITEM	RFQ_NO
Title in Document Links table of header (See *Extra Mapping Logic* below.)	doc.link	EXT_REF_LINE	Item Number of RFQ	ITEM	RFQ_ITEM
Title in Document Links table of header (See *Extra Mapping Logic* below.)	doc.link	EXT_REF_DOC	Purchase Requisition Number	ITEM	PREQ_NO
Title in Document Links table of header (See *Extra Mapping Logic* below.)	doc.link	EXT_REF_LINE	Item Number of Purchase Requisition	ITEM	PREQ_ITEM
Line Item Number	contracts.LineItem	LINE_ITEM_NUMBER	Item Number of Purchasing Document	ITEM_CONDITION	ITEM_NO
Line Item Number	contracts.LineItem	LINE_ITEM_NUMBER	Number of a Condition Record	ITEM_CONDITION	SERIAL_ID
NA	NA	Counter starts from 1 for each material	Sequential Number of the Condition	ITEM_CONDITION	COND_COUNT
Condition Type ID	eso.doccommon.pricingcondition.supplement	PC_ID	Condition Type	ITEM_CONDITION	COND_TYPE
Amount/Percent (See *Extra Mapping Logic* below.)	eso.doccommon.pricingcondition.supplement	UNIT, AMOUNT, PERCENT	Condition Amount	ITEM_CONDITION	COND_VALUE

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
Quantity	contracts.LineItem	QUANTITY	Condition Unit of Measure in ISO	ITEM_CONDITION	SCALE_UNIT_ISO
Currency (See *Extra Mapping Logic* below.)	contracts.Contracteso.doccommon.pricingcondition.supplement	CURRENCY, UNIT	ISO Code Currency	ITEM_CONDITION	CURRENCY_ISO
Price Unit	contracts.LineItem	PRICE_UNIT	Condition Pricing Unit	ITEM_CONDITION	COND_P_UNT
ISO Code in System Administration	contracts.LineItem	QUANTITY	Condition Unit of Measure in ISO	ITEM_CONDITION	COND_UNIT_ISO
Line Item Number	contracts.LineItem	LINE_ITEM_NUMBER	Item Number of Purchasing Document	ITEM_COND_SCALE_QUAN	ITEM_NO
Line Item Number	contracts.LineItem	LINE_ITEM_NUMBER	Number of a Condition Record	ITEM_COND_SCALE_QUAN	SERIAL_NO
NA	NA	COND_COUNT of the ITEM_CONDITION this item belongs to	Sequential Number of the Condition	ITEM_COND_SCALE_QUAN	COND_COUNT
From/To (See *Extra Mapping Logic* below.)	eso.doccommon.pricingcondition.scale	UNIT_THRESHOLD	Condition Scale Quantity	ITEM_COND_SCALE_QUAN	SCALE_BASE_QTY
Amount/Percent (See *Extra Mapping Logic* below.)	eso.doccommon.pricingcondition.supplement eso.doccommon.pricingcondition.scale	UNIT, AMOUNT, PERCENT	Currency Amount	ITEM_COND_SCALE_QUAN	COND_VALUE
NA	NA	Constant=1	Number of a Condition Record	HEAD_COND_SCALE_VAL	SERIAL_NO
NA	NA	Counter starts from 1	Sequential Number of the Condition	HEAD_COND_SCALE_VAL	COND_COUNT
From/To	eso.doccommon.pricingcondition.scale	VOLUME_THRESHOLD	Currency Amount	HEAD_COND_SCALE_VAL	SCALE_BASE_VALUE

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
(See *Extra Mapping Logic* below.)					
Amount/Percent (See *Extra Mapping Logic* below.)	eso.doccommon.pricingcondition.supplement eso.doccommon.pricingcondition.scale	UNIT, AMOUNT, PERCENT	Currency Amount	HEAD_COND_SCALE_VAL	COND_VALUE
Line Item Number	Contracts.LineItem	LINE_ITEM_NUMBER	Item Number of Purchasing Document	ITEM_TEXT	ITEM_NO
Default Line Item Text from corresponding integrated document type	Contracts.LineItem	ITEM_TEXT_ID	Text ID	ITEM_TEXT	TEXT_ID
NA (See *Extra Mapping Logic* below.)	contracts.Lineitem	LONG_DESC	Tag Column	ITEM_TEXT	TEXT_FORM
Description (See *Extra Mapping Logic* below.)	contracts.Lineitem	LONG_DESC	Text Line	ITEM_TEXT	TEXT_LINE
Unique Document Name (See *Extra Mapping Logic* below.)	doc.link	UNIQUE_DOC_NAME	ES Document Number (Master Agreement)	CROSSREF	ES_MA_NUMBER
Follow-On Document Type (See *Extra Mapping Logic* below.)	doc.link	FOLLOWON_DOCTYPE	ES Document Type	CROSSREF	ES_DOC_TYPE
Document Reference (See *Extra Mapping Logic* below.)	doc.link	EXT_REF_DOC	ES RFx Number	CROSSREF	ES_RFX_NUMBER

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
Display Name	contracts.contract	DISPLAY_NAME	ES Master Agreement Name	CROSSREF	ES_MA_NAME
Line Item Number	contracts.LineItem	LINE_ITEM_ NUMBER	Item Number of Purchasing Document	SRV_LINE	ITEM_NO
Line Item Number	contracts.LineItem	LINE_ITEM_ NUMBER	Line Number	SRV_LINE	EXTROW
Quantity	contracts.LineItem	QUANTITY	Quantity with Sign	SRV_LINE	MENGE
Unit of Measure	contracts.LineItem	QUANTITY Field contains unit of measure	Base Unit of Measure	SRV_LINE	MEINS_ISO
Price Unit	contracts.LineItem	PRICE UNIT	Price Unit	SRV_LINE	PEINH
Document Description	contracts.LineItem	DOCUMENT DESCRIPTION	Short Text	SRV_LINE	KTEXT1
Unit Price	contracts.LineItem	UNIT_PRICE	Gross Price	SRV_LINE	TBTWR
Line Item Number	contracts. LineItem	LINE_ITEM_ NUMBER	Item Number of Purchasing Document	SRV_COND	ITEM_NO
Line Item Number	contracts. LineItem	LINE_ITEM_ NUMBER	Item Number of Purchasing Document	SRV_COND	EXTROW
Line Item Number	contracts. LineItem	LINE_ITEM_ NUMBER	Number of a Condition Record	SRV_COND	SERIAL_ID
NA	NA	Counter starts from 1 for each service	Sequential Number of the Condition	SRV_COND	COND_COUNT
Condition Type ID	eso.doccommon.pricingcondition.supplement	PC_ID	Condition Type	SRV_COND	COND_TYPE
ISO Code in System Administration	contracts. LineItem	QUANTITY	Condition Unit of Measure in ISO	SRV_COND	SCALE_UNIT_ISO
Amount/Percent (See *Extra Mapping Logic* below.)	eso.doccommon.pricingcondition.supplement	UNIT, AMOUNT, PERCENT	Condition Amount	SRV_COND	COND_VALUE
Currency	contracts.Contract	CURRENCY, UNIT	ISO Code Currency	SRV_COND	CURRENCY_ISO

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
(See *Extra Mapping Logic* below.)	eso.doccommon.pricingcondition.supplement				
Price Unit	contracts.LineItem	PRICE_UNIT	Condition Pricing Unit	SRV_COND	COND_P_UNT
ISO Code in System Administration	contracts.LineItem	QUANTITY	Condition Unit of Measure in ISO	SRV_COND	COND_UNIT_ISO
Line Item Number	contracts.LineItem	LINE_ITEM_NUMBER	Item Number of Purchasing Document	SRV_COND_SCALE_QUAN	ITEM_NO
Line Item Number	contracts.LineItem	LINE_ITEM_NUMBER	Item Number of Purchasing Document	SRV_COND_SCALE_QUAN	EXTROW
Line Item Number	contracts.LineItem	LINE_ITEM_NUMBER	Number of a Condition Record	SRV_COND_SCALE_QUAN	SERIAL_NO
NA	NA	COND_COUNT of the SRV_COND this item belongs to	Sequential Number of the Condition	SRV_COND_SCALE_QUAN	COND_COUNT
From/To (See *Extra Mapping Logic* below.)	eso.doccommon.pricingcondition.scale	UNIT_THRESHOLD	Condition Scale Quantity	SRV_COND_SCALE_QUAN	SCALE_BASE_QTY
Amount/Percent (See *Extra Mapping Logic* below.)	eso.doccommon.pricingcondition.supplement eso.doccommon.pricingcondition.scale	UNIT, AMOUNT, PERCENT	Currency Amount	SRV_COND_SCALE_QUAN	COND_VALUE
Line Item Number	contracts.LineItem	LINE_ITEM_NUMBER	Item Number of Purchasing Document	SRV_COND_VALIDITY	ITEM_NO
Line Item Number	contracts.LineItem	LINE_ITEM_NUMBER	Item Number of Purchasing Document	SRV_COND_VALIDITY	EXTROW
Line Item Number	contracts.LineItem	LINE_ITEM_NUMBER	Number of a Condition Record	SRV_COND_VALIDITY	SERIAL_ID

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SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name
Unit Price Date Begin	contracts. LineItem	UP_BEGIN	Validity Start Date of Condition Record	SRV_COND_ VALIDITY	VALID_FROM
Unit Price Date End	contracts. LineItem	UP_END	Validity End Date of Condition Record	SRV_COND_ VALIDITY	VALID_TO

Extra Mapping Logic

The following table contains extra mapping logic for certain fields.

Table 120: Extra Mapping Logic

SAP Sourcing Field Label	Extra Mapping Logic
Title in Document Links collection table	This field is used when changing a contract.
Transaction Type	The *ES Document Type* field is used to differentiate between contract and scheduling agreement. Map to the specific value in SAP ERP.
NA	SAP NetWeaver Process Integration (SAP NetWeaver PI) mapping breaks this into 132-character lines.
Description	SAP NetWeaver PI mapping breaks this into 132-character lines.
Amount/Percent	COND_VALUE is set to AMOUNT or PERCENT based on the value of UNIT.
Currency	Either CURRENCY or "P1" is mapped to CURRENCY_ISO based on the value of UNIT. ("P1" identifies that percent value is used.)
Material	Check the value of the INCLUDE_PART_NUMBER field to identify if it is a regular material or a free-text item. If a free-text item, the field will be set to blank (that is, it will have no value).
Contracted Quantity	This will be a combination of quantity and unit of measure. SAP NetWeaver PI needs to extract and separate the quantity and unit of measure from the string containing the quantity and unit of measure.
No label	This is the Incoterm location of the awarded Incoterm.
Item Type	For material line items, the value of the SAP Sourcing *Item Type* field is LINE_ITEM_TYPE_ENUM = 1, and the value of the SAP ERP *Item Category* field is ITEM_CAT = 0.

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SAP Sourcing Field Label	Extra Mapping Logic
	For service line items, the value of the SAP Sourcing *Item Type* field is LINE_ITEM_TYPE_ENUM = 2, and the value of the SAP ERP *Item Category* field is ITEM_CAT = 9.
Title in Document Links table of header	Document number is taken from item document links based on LINK_DEFINITION type = RFQ.
Title in Document Links table of header	Item number is taken from item document links based on LINK_DEFINITION type = RFQ.
Title in Document Links table of header	Document number is taken from item document links based on LINK_DEFINITION type = PR.
Title in Document Links table of header	Item number is taken from item document links based on LINK_DEFINITION type = PR.
From/To	VOLUME_THRESHOLD is mapped to SCALE_BASE_VALUE; UNIT_THRESHOLD is mapped to SCALE_BASE_QTY.
NA	SAP NetWeaver PI mapping breaks this into 132-character lines.
Description	SAP NetWeaver PI mapping breaks this into 132-character lines.
Unique Document Name	Concatenate the class name to distinguish master agreement and subagreement.
Follow-On Document Type	The *ES Document Type* field is used to differentiate between contract and scheduling agreement. Map to the specific value in SAP ERP.
Document Reference	If the LINK_DEFINITION is RFx, ES_RFX_NUMBER will be filled.

Response Mapping of SAP ERP Outline Agreement to SAP Sourcing Master Agreement

The following table shows the response mapping of an SAP ERP outline agreement to an SAP Sourcing master agreement.

SAP ERP interface: BBP_ES_OA_UPDATE

SAP Sourcing Interface: MT_AGREEMENT_RESPONSE

Table 121: Response Mapping of SAP ERP Outline Agreement to SAP Sourcing Master Agreement

SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field
ES Document Number (Master Agreement)	CROSSREF	ES_MA_NUMBER	Master Agreement ID in master agreement table	contracts.Contract	UNIQUE_DOC_ NAME
Item Number of Purchasing Document	ITEM	ITEM_NO	Line Item Number	contracts.LineItem	LINE_ITEM_ NUMBER

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SAP ERP Field Label	RFC Parameter	RFC Parameter Field/Table Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field
Purchasing Document Number	NA	PURCHASINGDOCUMENT	Title in Document Links collection table	doc.link	EXT_DOC_REF
Item Number of Purchasing Document	ITEM	ITEM_NO	Title in Document Links collection table	doc.link	EXT_REF_LINE
Message Type: S Success, E Error, W Warning, I Info, A Abort	RETURN	TYPE	NA	NA	TYPE
Message Text	RETURN	MESSAGE	NA	NA	TEXT

6.3 Transport Protocol Shared File System

The default transport protocol of the file communication channel templates is FTP. If you would like to use shared file system, configure the communication channels as shown in the following tables. Shared file system is available only for on-premise deployment. SAP Sourcing and the shared directory must be trusted systems and must be able to access each other.

Transport Protocol Shared File System Parameters and Values

Table 122: Parameters and Values for Communication Channel CT_Supplier_Receiving_File_Channel_For_ES

Parameter	Value
Adapter Type	File (Receiver)
Transport Protocol	Select File System (NFS)
Target Directory	Enter the path of the shared directory.
Create Target Directory	Select
File Name Scheme	Vendor_.xml
File Construction Mode	Add Time Stamp
File Type	Binary

Table 123: Parameters and Values for Communication Channel CT_Supplier_Sending_File_Channel_For_ES

Parameter	Value
Adapter Type	File (Sender)
Transport Protocol	Select File System (NFS)
Source Directory	Enter the path of the shared directory.

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Parameter	Value
File Name	*Vendor*.xml
Quality of Service (This field is on the *Processing* tab.)	Exactly Once
Poll Interval (Secs)	60
Processing Mode (This field is on the *Processing* tab.)	Choose *Delete*
Process Read-Only Files (This field is on the *Processing* tab.)	Select
File Type	Binary

Table 124: Parameters and Values for Communication Channel CT_RFx_Response_Sending_File_Channel_For_ES

Parameter	Value
Adapter Type	File (Sender)
Transport Protocol	Select File System (NFS)
Source Directory	Enter the path of the shared directory.
File Name	*rfx*.xml
Quality of Service (This field is on the *Processing* tab.)	Exactly Once
Poll Interval (Secs)	60
Processing Mode (This field is on the *Processing* tab.)	Choose *Delete*
Process Read-Only Files (This field is on the *Processing* tab.)	Select
File Type	Binary

Table 125: Parameters and Values for Communication Channel CT_Material_Receiving_File_Channel_For_ES

Parameter	Value
Adapter Type	File (Receiver)
Transport Protocol	Select File System (NFS)
Target Directory	Enter the path of the shared directory.
Create Target Directory	Select
File Name Scheme	Material_.xml
File Construction Mode	Add Time Stamp
File Type	Binary

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Table 126: Parameters and Values for Communication Channel CT_RFx_Receiving_File_Channel_For_ES

Parameter	Value
Adapter Type	File (Receiver)
Transport Protocol	Select File System (NFS)
Target Directory	Enter the path of the shared directory.
Create Target Directory	Select
File Name Scheme	RFx_.xml
File Construction Mode	Add Time Stamp
File Type	Binary

6.4 Publishing RFx to Different Subcontexts

Procedure

The standard integration works with a single subcontext. However, you can publish RFx to different subcontexts within an enterprise as follows:

1. Create a new FTP/file import directory for each subcontext.
2. In SAP NetWeaver Process Integration (SAP NetWeaver PI), apply conditional logic to route the request from SAP ERP (for example, to create an RFx in SAP Sourcing) to the respective file folder.
3. Configure the data import monitor (one for each subcontext). As user, specify the user with which the objects are to be imported in the subcontext.

> **Note**
>
> The integrated document configuration (IDC) is used to determine which attributes are relevant for integration. As the IDC is scoped at enterprise level, the IDC is common to all subcontexts.

More Information

Create Scheduled Tasks to Import XML Messages for Materials, Vendors, and RFx [page 43]

6.5 Extensions to Integration of SAP ERP and SAP Sourcing

You can extend the integration of SAP ERP and SAP Sourcing by enhancing or modifying the following components:

- SAP ERP

  For material, vendor, and RFQ scenarios, you need to enhance IDocs if the existing IDoc interfaces do not meet your requirements. For more information, see SAP Library for SAP NetWeaver on SAP Help Portal at help.sap.com ▶ *SAP NetWeaver* ▶ *Functional View* ▶ *SAP NetWeaver by Key Capability* ▶ *Application Platform*

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by Key Capability > *Platform-Wide Services* > *Connectivity* > *Components of SAP Communication Technology* > *Classical SAP Technologies (ABAP)* > *IDoc Interface/ALE* > *Development* > *Structure, Documentation, and Definition of IDoc Types* > *Defining New IDoc Types* > *Extending an IDoc Type*.

For purchase order and outline agreement scenarios, the RFC interfaces `BBP_ES_PO_CREATE` and `BBP_ES_OA_UPDATE` have additional parameters such as `EXTENSION_IN` and `EXTENSION_OUT` to support enhancements. For information about the parameter `EXTENSION_IN`, see the function module documentation, for example, `BAPI_CONTRACT_CREATE` in the Function Builder (transaction `SE37`).

- SAP Sourcing

  You can use the SAP Sourcing extension framework to enhance objects in SAP Sourcing.

  If you want to make a field mandatory in SAP Sourcing because the corresponding field has been made mandatory in SAP ERP, you can use SAP Sourcing page customization.

  If you want to carry out additional validations in SAP Sourcing, you can use custom scripting.

  For more information, see SAP Library for SAP Sourcing on SAP Help Portal at help.sap.com.

- SAP NetWeaver Process Integration (SAP NetWeaver PI)

  You can use the Integration Repository to enhance SAP Sourcing interface definitions, SAP ERP interfaces, and their related mapping in your software component version. When creating your software component version, you can build a dependency to the SAP software component version. For more information, see SAP Library for SAP NetWeaver on SAP Help Portal at help.sap.com > *SAP NetWeaver* > *SAP NetWeaver PI* > *SAP NetWeaver Process Integration Library* > *Developer's Guide* > *Providing, Discovering, and Consuming Services* > *Managing Services in the Enterprise Services Repository* > *Organizing and Managing Content in ESR* > *Software Component Versions* > *Underlying Software Component Versions*.

6.6 Configuring AEX Communication Channels and Integrated Configuration Scenario

This section describes how to configure communication channels and integrated configuration scenarios for using **SAP NetWeaver PI AEX 7.3**

6.6.1 Configure Communication Channel and Integrated Configuration for Send Material Master from SAP ERP to SAP Sourcing

Prerequisites

Complete the following tasks before performing the steps in this section:

- Configure Integrated Scenarios for SAP NetWeaver PI 7.3 AEX [page 27]

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Procedure

> **Note**
> An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

1. In the process integration tools (transaction `SXMB_IFR`), log on to the *Integration Directory* (SAP NetWeaver PI 7.3 AEX or higher).
2. Select the communication channel that is associated with the SAP ERP business system and click *New*. Enter the Communication Channel name, then go to *Communication Channe* > *Apply Template : "CT_Generic_Sending_HTTP_AAE_Channel_For_ERP_Outbound_IDOCs"*.
3. Click *Save*.
4. Select the communication channel that is associated with the SAP Sourcing business system and click *New*. Enter the Communication Channel name, then go to *Communication Channe* > *Apply Template : "CT_Material_Receiving_File_Channel_For_ES"*.
5. Configure the channel using the values in Step 2 of Configure Communication Channel for Send Material Master [page 42].
6. Click *Save*.
7. Select *Integrated Configuration* and Click `New`. Enter the following items, then add them to the Configuration Scenario:
   - Sender Communication Component: `SAP ERP`
   - Sender Interface: `MATMAS.MATMAS05`
   - Sender Namespace: `urn:sap-com:document:sap:idoc:messages`

   Then, configure the tabs as shown below:

   Table 127

Tab	Field	Value
Inbound Processing	CT_Generic_Sending_HTTP_AAE_Channel_For_ERP_Outbound_IDOCs	Select the Sender Communication Channel Template
Receiver tab	Select SAP Sourcing Business System	Select the Receiver Communication Component
Receiver Interfaces	IM_ERP_Material_To_ES_Material	Select the Operation Mapping/ Receiver Interface
Outbound Processing	CT_Material_Receiving_File_Channel_For_ES	Select the Receiver Communication Channel Template

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6.6.2 Configure Communication Channel and Integrated Configuration for Send Vendor Master from SAP ERP to SAP Sourcing

Procedure

> **Note**
>
> Skip Step 1 and Step 2 if you performed the steps in Configure Communication Channel and Integrated Configuration for [page 185].

1. Select the communication channel that is associated with the SAP ERP business system and click *New*. Enter the Communication Channel name, then go to *Communication Channel* > *Apply Template : "CT_Generic_Sending_HTTP_AAE_Channel_For_ERP_Outbound_IDOCs"*.
2. Click *Save*.
3. Select the communication channel that is associated with the SAP Sourcing business system and click *New*. Enter the Communication Channel name, then go to *Communication Channel* > *Apply Template : "CT_Supplier_Receiving_File_Channel_For_ES"*.
4. Configure the channel using the values in Step 2 of Configure Communication Channels for Send Vendor Master from SAP [page 57].
5. Click *Save*.
6. Select *Integrated Configuration* and click `New`. Enter the following items, then add them to the Configuration Scenario:
   - Sender Communication Component: `SAP ERP`
   - Sender Interface: `CREMAS.CREMAS05`
   - Sender Namespace: `urn:sap-com:document:sap:idoc:messages`

   Then, configure the tabs as shown below:

   Table 128

Tab	Field	Value
Inbound Processing	CT_Generic_Sending_HTTP_AAE_Channel_For_ERP_Outbound_IDOCs	Select the Sender Communication Channel Template
Receiver tab	Select SAP Sourcing Business System	Select the Receiver Communication Component
Receiver Interfaces	IM_ERP_Vendor_To_ES_Supplier	Select the Operation Mapping/ Receiver Interface
Outbound Processing	CT_Supplier_Receiving_File_Channel_For_ES	Select the Receiver Communication Channel Template

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6.6.3 Configure Communication Channel and Integrated Configuration for Send Supplier Master from SAP Sourcing to SAP ERP

Procedure

1. Select the communication channel that is associated with the SAP ERP business system and click *New*. Enter the Communication Channel name, then go to *Communication Channel* > *Apply Template : "CT_Supplier_Sending_File_Channel_For_ES"*.
2. Click *Save*.
3. Configure the channel using the values in Step 3 of Configure Communication Channel for Send Supplier Master from SA [page 66].
4. Define the RFC destination to connect to the ERP system in SAP NetWeaver PI . Navigate to *Message Monitor* > *Go To* > *Configuration* > *Infrastructure* > *Destinations* > *Destinations to define RFC destination to connect to ERP system*.
5. Select the communication channel that is associated with the SAP ERP business system and click *New*. Enter the Communication Channel name, then go to *Communication Channel* > *Apply Template : "CT_Generic_Receiving_IDOC_Channel_For_ERP_Inbound_IDOCs"*. Configure the channel as shown below:

   Table 129

Parameter	Value	Example
RFC Client Parameters	Use the default value.	
Destination	RFC Destination defined in PI NWA	QV5CLNT340
Interface Version	Interface Version 4.0 or above	
SAP Release	730	

6. Click *Save*.
7. Select *Integrated Configuration* and click `New`. Enter the following items, then add them to the Configuration Scenario:
   - Sender Communication Component: `SAP Sourcing Business System`
   - Sender Interface: `MI_OB_Supplier`
   - Sender Namespace: `http://sap.com/xi/ESourcing/SRMJS/OP`

   Then, configure the tabs as shown below:

   Table 130

Tab	Field	Value
Inbound Processing	CT_Supplier_Sending_File_Channel_For_ES	Select the Sender Communication Channel Template
Receiver tab	Select SAP ERP Business System	Select the Receiver Communication Component
Receiver Interfaces	IM_Supplier_To_Vendor	Select the Operation Mapping/ Receiver Interface

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Tab	Field	Value
Outbound Processing	CT_Generic_Receiving_IDOC_AAE_Channel_For_ERP_Inbound_IDOCs	Select the Receiver Communication Channel Template.

6.6.4 Configure Communication Channel and Integrated Configuration to Check RFC Connection Between SAP Netweaver PI 7.3 AEX and SAP ERP

Procedure

1. Select the communication channel that is associated with the SAP ERP business system and click *New*. Enter the Communication Channel name, then go to *Communication Channe* > *Apply Template : "CT_Generic_Sending_HTTP_AAE_Channel_For_ES_Documents"*.
2. Click *Save*.
3. Select the communication channel that is associated with the SAP Sourcing business system and click *New*. Enter the Communication Channel name, then go to *Communication Channe* > *Apply Template : "CT_Generic_Receiving_RFC_Channel_For_ERP_Functions"*.
4. Configure the channel using the values in Step 3 of Configure Communication Channel Between SAP NetWeaver PI and SAP [page 97].
5. Click *Save*.
6. Select *Integrated Configuration* and click `New`. Enter the following items, then add them to the Configuration Scenario:
   - Sender Communication Component: `SAP Sourcing Business System`
   - Sender Interface: `MI_OB_Configuration_Test`
   - Sender Namespace: `http://sap.com/xi/ESourcing/SRMJS/OP`
   - Sender Namespace: `http://sap.com/xi/ESourcing/SRMJS`

   Then, configure the tabs as shown below:

   Table 131

Tab	Field	Value
Inbound Processing	CT_Generic_Sending_HTTP_AAE_Channel_For_ES_Documents	Select the Sender Communication Channel Template
Receiver tab	Select SAP ERP Business System	Select the Receiver Communication Component
Receiver Interfaces	IM_Configuration_Test_To_RFC_PING	Select the Operation Mapping/ Receiver Interface
Outbound Processing	CT_Generic_Receiving_RFC_Channel_For_ERP_Functions	Select the Receiver Communication Channel Template

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6.6.5 Configure Communication Channel and Integrated Configuration for Send RFQ from SAP ERP to SAP Sourcing

Prerequisites

Complete the following tasks before performing the steps in this section:

- Configure IDoc for RFQ [page 99]
- Configure Communication Channel and Integrated Configuration to [page 189]

Procedure

1. In SAP NetWeaver PI, navigate to *Message Monitor* > *Go To* > *Configuration* > *Infrastructure* > *Destinations* to define the RFC destination with the name *XI_IDOC_DEFAULT_DESTINATION_<SID of ERP>* as defined in SAP ERP.
2. In SAP NetWeaver PI, navigate to *Message Monitor* > *Go To* > *Configuration* > *Infrastructure* > *Application Resources*.
3. Locate and select the *InboundRA* resource (resource type*Resource Adapter*).
4. Configure the Properties tab as shown below:

   Table 132

Field	Description	Value
ProgramID	The Server Program ID as defined in TCP/IP RFC Destination in SAP ERP. See Configure IDoc for RFQ [page 99]	XI_IDOC_DEFAULT_PID
MaxReaderThreadCount	The maximum count of listening servers.	5
DestinationName	The TCP/IP RFC destination as defined in SAP ERP. See Configure IDoc for RFQ [page 99].	XI_IDOC_DEFAULT_DESTINATION_QV6
GatewayServer	The SAP ERP host name	qv6main.sap.com
GatewayService	The SAP ERP gateway service	Sapgw50
Local	The local gateway	False

5. Select the communication channel that is associated with the SAP ERP business system and click *New*. Enter the Communication Channel name, then go to *Communication Channel* > *Apply Template : "CT_Generic_Sending_IDOC_AAE_Channel_For_ERP_Outbound_IDOCs"*.

   Configure the channel using the values in the table below

   Table 133

Field	Value	Example
RFC Server Parameters	Use the default value.	

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Field	Value	Example
Ack Destination	The RFC Destination as defined in PI NWA. See Configure IDoc for RFQ [page 99].	XI_IDOC_DEFAULT_DESTINATION_QV6

6. Select the communication channel that is associated with the SAP Sourcing business system and click *New*. Enter the Communication Channel name, then go to *Communication Channel* > *Apply Template : "CT_RFx_Receiving_File_Channel_For_ES"*. Configure the channel using the values in Step 3 of Configure Communication Channel to Send RFQ from SAP ERP to SAP [page 104].

   Select *Integrated Configuration* and click `New`. Enter the following items, then add them to the Configuration Scenario:

   - Sender Communication Component: `SAP ERP Business system`
   - Sender Interface: `REQOTE.ORDERS05`
   - Sender Namespace: `urn:sap-com:document:sap:idoc:messages`

   Then, configure the tabs as shown below:

   Table 134

Tab	Field	Value
Inbound Processing	CT_Generic_Sending_IDOC_AAE_Channel_For_ERP_Outbound_IDOCs	Select the Sender Communication Channel Template
Receiver tab	Select SAP Sourcing Business system	Select the Receiver Communication Component
Receiver Interfaces	IM_ORDERS05_To_RFx	Select the Operation Mapping/ Receiver Interface
Outbound Processing	CT_RFx_Receiving_File_Channel_For_ES	Select the Receiver Communication Channel Template.

7. Select the communication channel that is associated with the SAP Sourcing business system and click *New*. Enter the Communication Channel name, then go to *Communication Channel* > *Apply Template : "CT_RFx_Response_Sending_File_Channel_For_ES"*. Configure the channel using the values in Step 3 of Configure Communication Channel to Send RFP Response [page 106].

8. Select *Integrated Configuration* and click `New`. Enter the following items, then add them to the Configuration Scenario:

   - Sender Communication Component: `SAP Sourcing Business system`
   - Sender Interface: `MI_OB_RFx_Response`
   - Sender Namespace: `http://sap.com/xi/ESourcing/SRMJS/OP`
   - Sender Namespace: `http://sap.com/xi/ESourcing/SRMJS`

   Then, configure the tabs as shown below:

   Table 135

Tab	Field	Value
Inbound Processing	CT_RFx_Response_Sending_File_Channel_For_ES	Select the Sender Communication Channel Template

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Tab	Field	Value
Receiver tab	Select SAP ERP Business System	Select the Receiver Communication Component
Receiver Interfaces	IM_ RFx_To_PurchaseRequsition	Select the Operation Mapping/ Receiver Interface
Outbound Processing	CT_Generic_Receiving_RFC_Channel_For_ERP_Functions	Select the Receiver Communication Channel Template.

6.6.6 Configure Communication Channel and Integrated Configuration for SAP Sourcing RFP Award to SAP ERP Purchase Order

Prerequisites

Complete the following tasks before performing the steps in this section:

- Configure Communication Channel and Integrated Configuration to [page 189]

Procedure

Select *Integrated Configuration* and click `New`. Enter the following items, then add them to the Configuration Scenario:

- Sender Communication Component: `SAP Sourcing Business System`
- Sender Interface: `MI_OB_Award_To_Purchase_Order`
- Sender Namespace: `http://sap.com/xi/ESourcing/SRMJS/OP`
- Sender Namespace: `http://sap.com/xi/ESourcing/SRMJS`

Then, configure the tabs as shown below:

Table 136

Tab	Field	Value
Inbound Processing	CT_Generic_Sending_HTTP_AAE_Channel_For_ES_Documents	Select the Sender Communication Channel Template
Receiver tab	Select SAP ERP Business system	Select the Receiver Communication Component
Receiver Interfaces	IM_Award_To_Purchase_Order	Select the Operation Mapping/ Receiver Interface
Outbound Processing	CT_Generic_Receiving_RFC_Channel_For_ERP_Functions	Select the Receiver Communication Channel Template.

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6.6.7 Configure Communication Channel and Integrated Configuration for SAP Sourcing RFP Award to SAP ERP Outline Agreement

Prerequisites

Complete the following tasks before performing the steps in this section:

- Configure Communication Channel and Integrated Configuration to [page 189]

Procedure

Select *Integrated Configuration* and click `New`. Enter the following items, then add them to the Configuration Scenario:

- Sender Communication Component: `SAP Sourcing Business System`
- Sender Interface: `MI_OB_Award_To_OA`
- Sender Namespace: `http://sap.com/xi/ESourcing/SRMJS/OP`
- Sender Namespace: `http://sap.com/xi/ESourcing/SRMJS`

Then, configure the tabs as shown below:

Table 137

Tab	Field	Value
Inbound Processing	CT_Generic_Sending_HTTP_AAE_Channel_For_ES_Documents	Select the Sender Communication Channel Template
Receiver tab	Select SAP ERP Business system	Select the Receiver Communication Component
Receiver Interfaces	IM_Award_To_OA	Select the Operation Mapping/ Receiver Interface
Outbound Processing	CT_Generic_Receiving_RFC_Channel_For_ERP_Functions	Select the Receiver Communication Channel Template.

6.6.8 Configure Communication Channel and Integrated Configuration for Master Agreement to Outline Agreement

Prerequisites

Complete the following tasks before performing the steps in this section:

- Configure Communication Channel and Integrated Configuration to [page 189]

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Procedure

Select *Integrated Configuration* and click `New`. Enter the following items, then add them to the Configuration Scenario:

- Sender Communication Component: `SAP Sourcing Business System`
- Sender Interface: `MI_OB_Agreement`
- Sender Namespace: `http://sap.com/xi/ESourcing/SRMJS/OP`
- Sender Namespace: `http://sap.com/xi/ESourcing/SRMJS`

Then, configure the tabs as shown below:

Table 138

Tab	Field	Value
Inbound Processing	CT_Generic_Sending_HTTP_AAE_Channel_For_ES_Documents	Select the Sender Communication Channel Template
Receiver tab	Select SAP ERP Business system	Select the Receiver Communication Component
Receiver Interfaces	IM_Agreement_To_OA	Select the Operation Mapping/ Receiver Interface
Outbound Processing	CT_Generic_Receiving_RFC_Channel_For_ERP_Functions	Select the Receiver Communication Channel Template.

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Typographic Conventions

Table 139

Example	Description
<Example>	Angle brackets indicate that you replace these words or characters with appropriate entries to make entries in the system, for example, "Enter your **<User Name>**".
Example > *Example*	Arrows separating the parts of a navigation path, for example, menu options
Example	Emphasized words or expressions
Example	Words or characters that you enter in the system exactly as they appear in the documentation
www.sap.com	Textual cross-references to an internet address
/example	Quicklinks added to the internet address of a homepage to enable quick access to specific content on the Web
123456	Hyperlink to an SAP Note, for example, SAP Note 123456
Example	• Words or characters quoted from the screen. These include field labels, screen titles, pushbutton labels, menu names, and menu options. • Cross-references to other documentation or published works
`Example`	• Output on the screen following a user action, for example, messages • Source code or syntax quoted directly from a program • File and directory names and their paths, names of variables and parameters, and names of installation, upgrade, and database tools
`EXAMPLE`	Technical names of system objects. These include report names, program names, transaction codes, database table names, and key concepts of a programming language when they are surrounded by body text, for example, `SELECT` and `INCLUDE`
EXAMPLE	Keys on the keyboard

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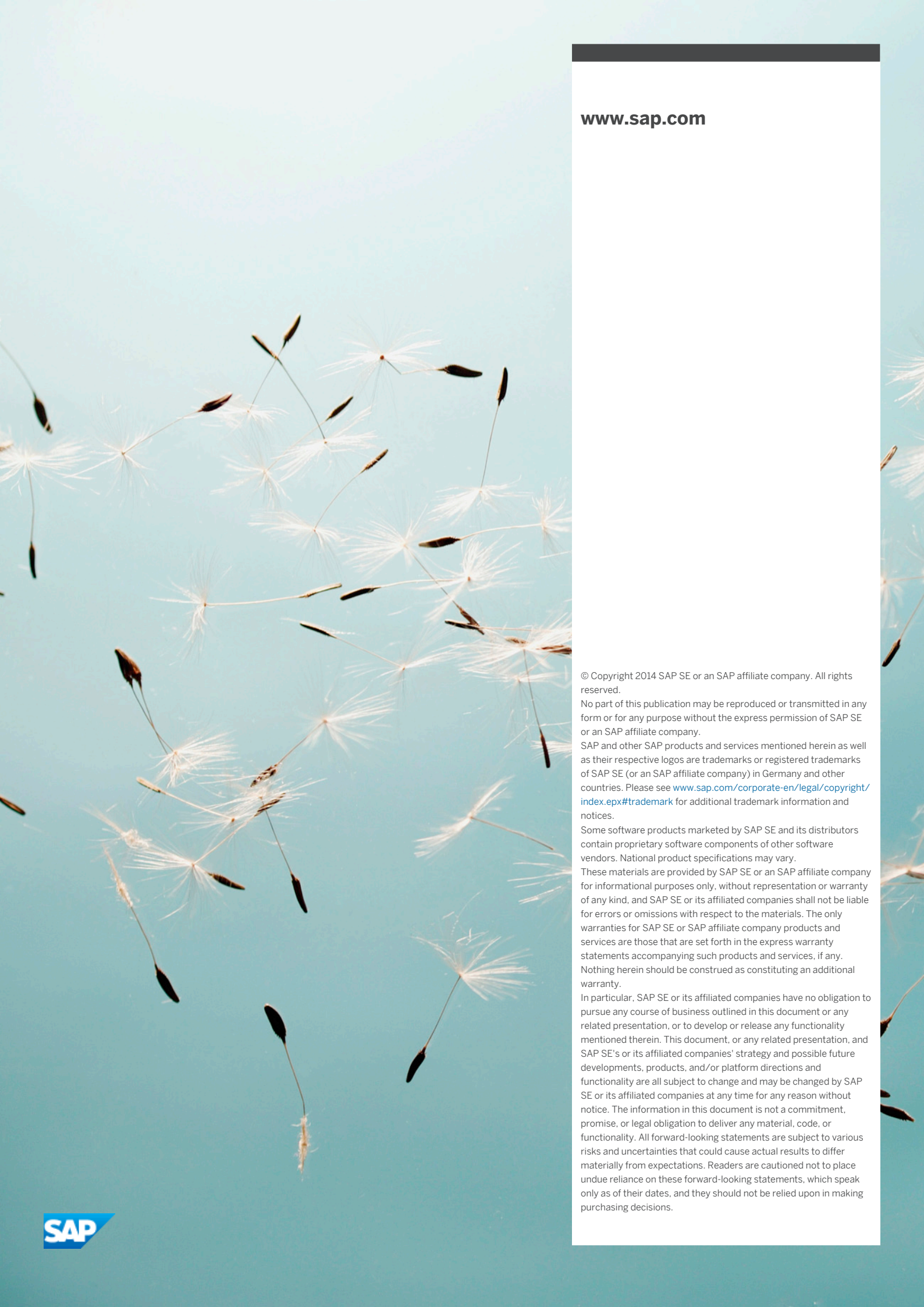

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