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# Catalog Connectivity Service API

SAP Ariba APIs

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# Catalog Connectivity Service API

This guide is for a customer developer developing a client application that enables users to punch in to guided buying from the Plant Maintenance module in SAP S/4HANA 2022 or SAP S/4HANA Cloud Public Edition to add items to work orders.

A customer developer creates a client application that enables users to punch in to guided buying from the Plant Maintenance module in SAP S/4HANA 2022 or SAP S/4HANA Cloud Public Edition to add items to work orders.

This guide applies to:

- SAP Ariba APIs
- SAP Ariba Developer Portal
- SAP Ariba Buying and Invoicing
- SAP Ariba Buying

## Related Information

[Support for Punching in to Guided Buying From Work Orders in an SAP S/4HANA System](#)

# About the Catalog Connectivity Service API

Connectivity service enables users to punch in to guided buying from the Plant Maintenance module in SAP S/4HANA 2022 or SAP S/4HANA Cloud Public Edition. It integrates with the SAP S/4HANA systems using Open Catalog Interface (OCI) based protocols. Connectivity service supports secure OCI available in OCI 4.2 that enables secure transfer of user credentials such as user name, Punchin ID, and Punchin Password over backend HTTP calls.

The Catalog Connectivity Service API is available only in the US and EU data centers.

The Catalog Connectivity Service API enables you to send a:

- request for an initial handshake as a backend call to guided buying (through connectivity service).
- request to retrieve the selected items from guided buying.

The Catalog Connectivity Service API includes the following endpoint:

<b>POST/</b> <b>secureOci/</b> <b>{PunchinId}</b>	Sends a request for an initial handshake as a backend call to the connectivity service, if the value of the <code>FUNCTIONINITIALIZE</code> .
	Sends a request to the connectivity service to retrieve the selected items from guided buying, if the value of the <code>FUNCTION</code> parameter is specified as <code>RETRIEVEOCI</code> .

## Prerequisites

- To create an application and request access to use this API, you must have access to the SAP Ariba Developer Portal. For details refer to [Steps to Start Using the SAP Ariba APIs in Help for the SAP Ariba Developer Portal](#).
- All queries made to this API must be authenticated using OAuth authentication. For details refer to [SAP Ariba Developer Portal Authentication in Help for the SAP Ariba Developer Portal](#).
- The connectivity service must be configured before using the Catalog Connectivity Service API. For more information, see [Configuration of Connectivity Service](#).

## Workflow of the Catalog Connectivity Service API

Workflow of the Catalog Connectivity Service API involves the following high-level steps.

### Workflow to Initialize Handshake for Punching in to Guided Buying

To initialize handshake for punching in to guided buying (through the connectivity service) from an SAP S/4HANA system using the catalog connectivity service API involves the following high-level steps:

1. A user, in the Plant Maintenance module in the SAP S/4HANA system, in the process of adding items to the work order selects to add items from guided buying.
2. The client application sends a request for an initial handshake as a backend call to guided buying through the connectivity service.
3. The connectivity service persists the incoming data, generates a `SessionId` and a `SessionTransmissionId`, and returns the values as an XML.  
The `SessionId` is used by the SAP S/4HANA system in the request to the connectivity service to launch the guided buying catalog, and the `SessionTransmissionId` in the request to retrieve the shopping cart contents from guided buying.

#### Note

The `SessionId` and `SessionTransmissionId` are valid only in the current session and will be deleted from the database after the shopping cart contents have been checked out to the SAP S/4HANA system.

4. The SAP S/4HANA system sends a request to the connectivity service with the `SessionId` to launch the catalog in guided buying.
5. The connectivity service processes the request and redirects the user to the guided buying landing page after authentication.
6. The user searches the guided buying catalog for the required items, adds them to the cart and clicks **Check out** to return to the SAP S/4HANA system.

## Workflow to Retrieve the Selected Items From Guided Buying

Retrieving the selected items from guided buying using catalog connectivity service API involves the following high-level steps:

1. When the user adds the required items to the cart in guided buying and clicks **Check out** to return to the SAP S/4HANA system, guided buying sends the `ShoppingCartID` parameter value to the connectivity service.
2. The connectivity service persists the `ShoppingCartID` corresponding to the `SessionId` and notifies the SAP S/4HANA system.
3. The client application sends a backend call to the connectivity service to retrieve the items from guided buying.
4. The connectivity service processes the request and retrieves the shopping cart data from guided buying and sends it to the SAP S/4HANA system.

## Initializing Handshake for Punching in to Guided Buying

Use this procedure to initialize handshake for punching in to guided buying through the connectivity service using the catalog connectivity service API.

### Context

The catalog connectivity service API enables you to punch in to guided buying from the Plant Maintenance module in an SAP S/4HANA system.

## Note

In the sample URLs in this topic, replace `{{runtime_url}}` with the desired runtime URL from the **Environment Details** table on the SAP Ariba Developer Portal discovery page for this API.

## Procedure

1. A user, in the Plant Maintenance module in the SAP S/4HANA system, in the process of adding items to the work order selects to add items from guided buying.
2. The client application sends a request for an initial handshake as a backend call to guided buying through the connectivity service using the `POST {{runtime_URL}}/secureOci/{PunchinId}` endpoint.

A sample request is as follows:

```
POST {{runtime_URL}}/secureOci/{PunchinId}
```

The backend call for initial handshake contain the following parameters:

Parameter	Mandatory?	Description	Value
PunchinId	Yes	Unique identifier of the guided buying site.	Ariba Network ID
username	Yes	Single sign-on (SSO) user ID of the user.	User ID
context	Yes	Context in the SAP S/4HANA system from where the user punched in.	workOrder
HOOK_URL	Yes	The URL of the SAP S/4HANA system to which the shopping cart data is to be returned. Ensure that you append the URL with the PunchinId.	URL
FUNCTION	Yes	Indicates the action to be taken by the connectivity service.	INITIALIZE
EmailAddress	Yes	The user's email address.	
ShoppingCartAuxID	No	The ID of the work order.	
ShoppingCartTitle	No	The title of the work order.	
SupplierDomain	No	The supplier domain value that needs to be returned in the shopping cart. For example: duns or networkid. If left blank, the buyersystemid value is returned by default.	

Parameter	Mandatory?	Description	Value
CustomFilterQuery	No	Used for filtering based on territory. For example: AvailableTerritories = ('US').  SAP Ariba recommends that you encode this field value using the Base64 encoding scheme and append the encoded value to @ARIBAHEADER@. For example, if the encoded value of AvailableTerritories = ('US') is QXZhaWxhYmxlVGVycml0b3JpZXMgPSAoJ0RFJykgQU5 then enter, @ARIBAHEADER@QXZhaWxhYmxlVGVycml0b3JpZXMgPSAoJ0RFJykgQU5.	
PurchasingUnit	No	The purchasing unit associated with the user. Guided buying is enabled to receive purchasing units as an extrinsic field from the SAP S/4HANA system. The user profile and purchasing unit associations help filter the content that a user can view in guided buying.	
DefaultCurrency	No	The currency associated with the user.	
UserLocale	No	The locale associated with the user.	
Groups	No	The groups associated with the user.	
User.Address.UserName	No	Guided buying looks up the value of this field and updates the users address when creating the user.	
User.Address.Street	No	The part of the address that contains the house/apartment number and street/cross name.	
User.Address.City	No	The name of the city in the address.	
User.Address.State	No	The name of the State.	
User.Address.Country	No	The name of the country. The name should be in the format that is loaded in guided buying.	
User.Address.PostalCode	No	The postal code of the address.	
User.Address.Phone	No	The phone number of the user.	
User.Address.Fax	No	The fax number of the user.	

The response includes a `SessionId` and a `SessionTransmissionId`.

# Retrieving the Selected Items From Guided Buying

Use this procedure to retrieve the selected items from guided buying using the Catalog Connectivity Service API.

## Context

The catalog connectivity service API enables you to retrieve the selected items after punching in to guided buying from the Plant Maintenance module in an SAP S/4HANA system.

### Note

In the sample URLs in this topic, replace `{{runtime_url}}` with the desired runtime URL from the **Environment Details** table on the SAP Ariba Developer Portal discovery page for this API.

## Procedure

1. A user adds the required items to the cart in guided buying and clicks **Check out** to return to the SAP S/4HANA system.

Guided buying sends the `ShoppingCartID` parameter value to the connectivity service.

The connectivity service persists the `ShoppingCartID` corresponding to the `SessionId` and notifies the SAP S/4HANA system.

The client application sends a backend call to the connectivity service to retrieve the items from guided buying.

The connectivity service processes the request and retrieves the shopping cart data from guided buying and sends it to the SAP S/4HANA system.

2. The connectivity service persists the `ShoppingCartID` corresponding to the `SessionId` and notifies the SAP S/4HANA system.
3. The client application sends a backend call to the connectivity service to retrieve the items from guided buying using the `POST {{runtime_URL}}/secureOci/{PunchinId}` endpoint.

A sample request is as follows:

```
POST {{runtime_URL}}/secureOci/{PunchinId}
```

The backend call contains the following parameters:

Parameter	Mandatory?	Description	Value
<code>SessionTransmissionId</code>	Yes	The session transmission ID generated by the connectivity service for the current punchin session.	<code>SessionTransmissionId</code>

Parameter	Mandatory?	Description	Value
FUNCTION	Yes	Indicates the action to be taken by the connectivity service.  The value RETRIEVEOCI indicates that guided buying must send the shopping cart contents associated with the specified  SessionTransmission Id to the SAP S/4HANA system.	RETRIEVEOCI

```
SessionTransmissionId=c8c3444ae27f421087d50a42ed24b1d2
FUNCTION=RETRIEVEOCI
```

The connectivity service processes the request and retrieves the shopping cart data from guided buying and sends it to the SAP S/4HANA system.

A sample response is as follows:

```
<?xml version="1.0"?>
<ocisecurity>
  <OCIField>NEW_ITEM-ShoppingCartID[1]</OCIField>
  <OCIValue>SH73</OCIValue>
  <OCIField>NEW_ITEM-DESCRIPTION[1]</OCIField>
  <OCIValue>SSP-3793 Catalog-Item For JCN</OCIValue>
  <OCIField>NEW_ITEM-MATGROUP[1]</OCIField>
  <OCIValue></OCIValue>
  <OCIField>NEW_ITEM-EXT_CATEGORY[1]</OCIField>
  <OCIValue>43211800</OCIValue>
  <OCIField>NEW_ITEM-EXT_SCHEMA_TYPE[1]</OCIField>
  <OCIValue>unspsc</OCIValue>
  <OCIField>NEW_ITEM-MATNR[1]</OCIField>
  <OCIValue></OCIValue>
  <OCIField>NEW_ITEM-QUANTITY[1]</OCIField>
  <OCIValue>1.000 </OCIValue>
  <OCIField>NEW_ITEM-UNIT[1]</OCIField>
  <OCIValue>EA </OCIValue>
  <OCIField>NEW_ITEM-PRICE[1]</OCIField>
  <OCIValue>44.000 </OCIValue>
  <OCIField>NEW_ITEM-PRICEUNIT[1]</OCIField>
  <OCIValue>1</OCIValue>
  <OCIField>NEW_ITEM-CURRENCY[1]</OCIField>
  <OCIValue>USD </OCIValue>
  <OCIField>NEW_ITEM-LEADTIME[1]</OCIField>
  <OCIValue>3</OCIValue>
  <OCIField>NEW_ITEM-VENDOR[1]</OCIField>
  <OCIValue>sid496 </OCIValue>
  <OCIField>NEW_ITEM-VENDORMAT[1]</OCIField>
  <OCIValue>SSP-3793CAT </OCIValue>
  <OCIField>NEW_ITEM-MANUFACTCODE[1]</OCIField>
  <OCIValue>Hallmark Cables </OCIValue>
  <OCIField>NEW_ITEM-MANUFACTMAT[1]</OCIField>
  <OCIValue>SSP-3793CAT </OCIValue>
  <OCIField>NEW_ITEM-CONTRACT[1]</OCIField>
  <OCIValue></OCIValue>
  <OCIField>NEW_ITEM-CONTRACT_ITEM[1]</OCIField>
```

```
<OCIValue></OCIValue>
<OCIField>NEW_ITEM-EXT_PRODUCT_ID[1]</OCIField>
<OCIValue>sid496|SSP-3793CAT</OCIValue>
<OCIField>NEW_ITEM-LONGTEXT_1:132[ ]</OCIField>
<OCIValue>SSP-3793 Catalog-Item For JCN</OCIValue>
<OCIField>NEW_ITEM-SERVICE[1]</OCIField>
<OCIValue></OCIValue>
</ocisecurity>
```

## Error Codes for the Catalog Connectivity Service API

The Catalog Connectivity Service API returns response codes when you submit POST requests.



Response Code	Message	Description
401	Unauthorized	Authentication failed. Confirm your OAuth credentials and make sure that you are using OAuth authentication.
403	Forbidden	Authentication failed. Confirm your OAuth credentials and your ANID.
404	Not Found	Invalid URL.

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