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Installation and upgrade guide for sourcing, contracts, and supplier data integration with SAP ERP and SAP S/4HANA

Ariba Network
SAP Ariba Sourcing
SAP Ariba Contracts
SAP Ariba Supplier Information and Performance Management
SAP Ariba Supplier Lifecycle and Performance

SAP

SAP Ariba

Content

About this guide

The *Installation and upgrade guide for sourcing, contracts, and supplier data integration with SAP ERP and SAP S/4HANA* provides information about the SAP Ariba cloud integration installation procedure for integrating sourcing, contracts, and supplier data.

SAP Ariba cloud integration overview

This chapter contains the following topics:

In this section:

SAP Ariba cloud integration overview

SAP Ariba cloud integration solutions enable buyers using the following SAP Ariba applications to integrate master data and transactional data between SAP Ariba applications and SAP ERP or SAP S/4HANA:

- SAP Ariba Sourcing
- SAP Ariba Contracts
- SAP Ariba Supplier Information and Performance Management
- SAP Ariba Supplier Lifecycle and Performance, previously referred to as Ariba Supplier Management

Some of these integrations between SAP ERP and SAP Ariba applications also include data and process flows through Ariba Network using the Ariba Network adapter for SAP NetWeaver for SAP Ariba Start Sourcing. SAP Ariba supports the following integrations:

- QuoteRequest (Request for quotations)
- QuoteMessage (SAP Ariba Sourcing Awards)
- ContractRequest and ContractResponse (Ariba Contract Management)

Integration methods

SAP Ariba cloud integration supports the following integration methods for integrating data between SAP ERP and SAP Ariba Start Sourcing applications:

Direct connectivity	Direct connectivity enables direct communication between SAP ERP and the SAP Ariba application without any middleware. Direct connectivity integrations are used for master data integrations including material, user, and supplier master data between SAP ERP and SAP Ariba sourcing applications. When you use the direct connectivity integration method, you can configure a connection between the logical port of the consumer proxy (SAP ERP) and the endpoint of the provider proxy (SAP Ariba application).

Mediated connectivity	Mediated connectivity enables communication between SAP ERP and the SAP Ariba application through a middleware, such as SAP Process Integration. Note that the mediated connectivity information covered in this guide is limited to mediated connectivity configurations over the SAP Process Integration middleware. When you use the mediated connectivity integration method, the communication is always routed through SAP Process Integration. This provides additional security as you do not have to expose the ERP proxy to external servers. Integrations that use Ariba Network adapter for SAP NetWeaver for SAP Ariba Start Sourcing also use the mediated connectivity integration method.

Both the direct and mediated connectivity integration methods use SOAP messages to send and receive data. The SOAP messages contain data either as CSV files that are attached to the header or embedded in the message body.

The CSV file-based data transfer is often referred to as file channel-based integration. Integrations where data is embedded in the SOAP message body are referred to as web service-based integration.

Ariba components for SAP Ariba cloud integration

You need the following Ariba components to set up the SAP Ariba cloud integration for SAP ERP or SAP S/4HANA:

SAP transports	SAP transports package contains configurations that enable data transfer to or from SAP ERP systems. You must import the relevant SAP transports to the SAP ERP system for SAP Ariba cloud integration to work. Transports are required for both direct and mediated connectivity integration methods. For information on downloading SAP transports, see How to import the latest Ariba transports [page 15].
Process Integration mapping	The SAP Process Integration mapping package contains the design objects (.TPZ) and the software catalog files. You must import the relevant TPZ and software catalog files to SAP Process Integration to implement the mediated connectivity integration method. This component is not required if you are using the direct connectivity integration method. For information on downloading SAP Process Integration mappings, see How to import the latest Ariba TPZ files for SAP Process Integration [page 14].
Mapping workbook	The mapping workbook provides an easy reference to field mappings between SAP ERP and the SAP Ariba application for data integrations. You must download the mapping workbook to understand the field mappings implemented in your feature. For information on downloading the mapping workbook, see Downloading the mapping workbook [page 16].

Sourcing, contracts, and supplier data integration feature documentation

SAP Ariba cloud integration enables you to integrate sourcing, contracts, and supplier data between SAP Ariba applications and SAP ERP.

The following table provides a list of integrations and pointers to corresponding feature documentation:

Integration feature	Documentation
Request for quotations (QuoteRequest) integration	*RFQ and Award Integration with Ariba Sourcing*
Awards (QuoteMessage) integration	*RFQ and Award Integration with Ariba Sourcing*
Contracts integration	*Integrating Sourcing, Contract, and Supplier data with SAP*
Ariba Sourcing Master data integration	*Integrating Sourcing, Contract, and Supplier data with SAP*
Ariba Supplier Information and Performance Management integration	*Integrating Sourcing, Contract, and Supplier data with SAP*
Ariba Supplier Lifecycle and Performance integration	*Integrating Sourcing, Contract, and Supplier data with SAP*

Ariba component improvements in SAP Ariba cloud integration release 9.0

SAP Ariba cloud integration release 9.0 repackages the design objects, transports, and mappings for sourcing, contracts, and supplier data integration to provide flexible installation and upgrade options for buyers using the following SAP Ariba applications integrated with SAP ERP:

- SAP Ariba Contracts
- SAP Ariba Sourcing
- SAP Ariba Supplier Information and Performance Management
- Ariba Network

In previous releases, there was only one software component, `ARIBA_SUPPLIER_CONN_ADAPTER, CIx of ariba.com`, and all design and mapping objects were linked to the same software component.

> **Note**
>
> The `x` in `CIx` of the software component name indicates the SAP Ariba cloud integration release number. For example, CI9.

In SAP Ariba cloud integration release 9.0, the software component `ARIBA_SUPPLIER_CONN_ADAPTER, CIx of ariba.com` has been split into multiple software components. The Ariba Network adapter for SAP NetWeaver contains the objects, mappings, and transports for SAP Ariba Contracts,SAP Ariba Start Sourcing, and SAP Ariba Supplier Information and Performance Management integrations with SAP ERP.

Segregation of design objects and mappings into integration-specific software components simplifies the installation and upgrade process. You can now import only those components that are relevant for your integration. The custom adapter components enable you to preserve the customizations you have implemented and reduces conflicts while upgrading your system.

For information about software components, product definitions, and CIM files, see Software components, product definitions, and CIM files [page 8].

Software components, product definitions, and CIM files

The following table shows the software components for SAP Ariba Start Sourcing:

Software component and TPZ files	Product and CIM files	Description
`ARIBA_BASIS, CIx of ariba.com` `AribaNetworkAdapter.Basis.tpz`	`Ariba Basis` `Ariba_Basis.SoftwareCatalog.zip`	Contains objects associated with common basis. This is a mandatory component that users need to install.
`ARIBA_ADAPTER, 1.0 of ariba.com` `AribaNetworkAdapter.Adapter.tpz`	`Ariba Adapter` `Ariba_Adapter.SoftwareCatalog.zip`	Contains the ASC metadata objects. This is a mandatory component that users need to install.
`ARIBA_SOURCING_ADAPTER, CIx of ariba.com` `AribaStrategicSourcingAdapter.tpz`	`Ariba Sourcing Adapter` `Ariba_Sourcing_Adapter.SoftwareCatalog.zip`	Contains objects for the following sourcing transactions: • QuoteRequest • QuoteResponse • ContractRequest • ContractResponse Install this component if you want to use any of these transactions.
`ARIBA_SOURCING_CUSTOM_ADAPTER, 1.0 of ariba.com` `AribaStrategicSourcingCustomAdapter.tpz`	`Ariba Sourcing Adapter` `Ariba_Sourcing_Adapter.SoftwareCatalog.zip`	Contains objects for the following sourcing transactions: • QuoteRequest • QuoteResponse • ContractRequest • ContractResponse Install this component if you want to customize any of these transactions.

Installation overview

This chapter contains the following topics:

In this section:

Installation overview

The following list provides a high-level overview of the SAP Ariba cloud integration installation and setup for SAP Ariba Start Sourcing, SAP Ariba Contracts, and supplier data integration with SAP ERP or SAP S/4HANA:

1. Verify the system requirements. For more information on supported system landscapes, see Supported versions and integration landscapes [page 9].
2. Ensure that you have a valid account for the SAP Ariba solution that you want to integrate with SAP ERP.
3. Import Ariba components. For more information, see Importing Ariba components [page 14].
4. If you want to use mediated connectivity over SAP Process Integration, configure SAP Process Integration. For more information, see Setting up SAP Process Integration [page 17].
5. Configure the connectivity settings. For more information, see the corresponding feature documentation [page 6].

Supported versions and integration landscapes

The following table provides the SAP ERP, SAP S/4HANA on-premise, and SAP Process Integration versions that are required for various integration features to work:

> **Note**
>
> To prevent errors for the mandatory target fields containing a combination of NodeFunctions, CopyValue and Text Functions when using SAP Process Integration 7.5, refer to the following SAP Notes:
>
> - SAP Note 2209925 -CopyValue function not getting correct output
> - SAP Note 2185824-Graphical Mapping combination - 'CopyValue', any Standard Functions from Text category and NodeFunctions give wrong output

Feature	Introduced in	SAP ERP version (Minimum requirement)	SAP S/4HANA	SAP Process Integration versions

Master data and material master data integration	SAP Ariba cloud integration release 7.0	SAP ERP 6.0 (SAP_APPL 606 SPS02)	• SAP S/4HANA, on-premise edition 1610
			• SAP S/4HANA, on-premise edition 1511
			• SAP S/4HANA Finance
			  ○ SAP Simple Finance, on-premise edition 1503
			  ○ SAP S/4HANA Finance 1605
				• 7.1
				• 7.3
				• 7.31
				• 7.4
				• 7.5

Contracts integration	SAP Ariba cloud integration release 7.0	SAP ERP 6.0 (SAP_APPL 600 SPS02)	• SAP S/4HANA, on-premise edition 1610
			• SAP S/4HANA, on-premise edition 1511
			• SAP S/4HANA Finance
			  ○ SAP Simple Finance, on-premise edition 1503
			  ○ SAP S/4HANA Finance 1605
				• 7.1
				• 7.3
				• 7.31
				• 7.4
				• 7.5

Feature	Introduced in	SAP ERP version (Minimum requirement)	SAP S/4HANA	SAP Process Integration versions

Ariba Supplier Information and Performance Management integration	SAP Ariba cloud integration release 7.0	SAP ERP 6.0 (SAP_APPL 606 SPS02)	• SAP S/4HANA, on-premise edition 1610
			• SAP S/4HANA, on-premise edition 1511
			• SAP S/4HANA Finance
			  ○ SAP Simple Finance, on-premise edition 1503
			  ○ SAP S/4HANA Finance 1605
				• 7.1
				• 7.3
				• 7.31
				• 7.4
				• 7.5

Manufacturer parts list	SAP Ariba cloud integration release 8.0	SAP ERP (SAP_APPL 600 SP 14)	• SAP S/4HANA, on-premise edition 1610
			• SAP S/4HANA, on-premise edition 1511
			• SAP S/4HANA Finance
			  ○ SAP Simple Finance, on-premise edition 1503
			  ○ SAP S/4HANA Finance 1605
				• 7.1
				• 7.3
				• 7.31
				• 7.4
				• 7.5

Feature	Introduced in	SAP ERP version (Minimum requirement)	SAP S/4HANA	SAP Process Integration versions

Bill of materials	SAP Ariba cloud integration release 8.0	SAP ERP (SAP_APPL 600 SP 14)	• SAP S/4HANA, on-premise edition 1610
			• SAP S/4HANA, on-premise edition 1511
			• SAP S/4HANA Finance
			  ○ SAP Simple Finance, on-premise edition 1503
			  ○ SAP S/4HANA Finance 1605
				• 7.1
				• 7.3
				• 7.31
				• 7.4
				• 7.5

Ariba Sourcing awards integration to create Purchase info records	SAP Ariba cloud integration release 8.0	SAP ERP (SAP_APPL 617 SP 11)	• SAP S/4HANA, on-premise edition 1610
			• SAP S/4HANA, on-premise edition 1511
			• SAP S/4HANA Finance
			  ○ SAP Simple Finance, on-premise edition 1503
			  ○ SAP S/4HANA Finance 1605
				• 7.1
				• 7.3
				• 7.31
				• 7.4
				• 7.5

Feature	Introduced in	SAP ERP version (Minimum requirement)	SAP S/4HANA	SAP Process Integration versions

Supplier Lifecycle and Performance	SAP Ariba cloud integration release 8.0	SAP ERP 6.0 EHP6 SP1 with SAP Business Services Foundation 731	• SAP S/4HANA, on-premise edition 1610
			• SAP S/4HANA, on-premise edition 1511
			• SAP S/4HANA Finance
			  ○ SAP Simple Finance, on-premise edition 1503
			  ○ SAP S/4HANA Finance 1605
				• 7.1
				• 7.3
				• 7.31
				• 7.4
				• 7.5

Service item lines in RFQ, Awards, and Contracts	SAP Ariba cloud integration release 9.0	SAP ERP 6.0 (SAP_APPL 604 SPS05 and SAP_BASIS 701 SP05)	• SAP S/4HANA, on-premise edition 1610
			• SAP S/4HANA, on-premise edition 1511
			• SAP S/4HANA Finance
			  ○ SAP Simple Finance, on-premise edition 1503
			  ○ SAP S/4HANA Finance 1605
				• 7.1
				• 7.3
				• 7.31
				• 7.4
				• 7.5

Importing Ariba components

This chapter contains the following topics:

In this section:

How to import the latest Ariba TPZ files for SAP Process Integration

Context

For Mediated Connectivity-based integrations including integrations that use Ariba Network adapter for SAP NetWeaver for SAP Ariba Sourcing, import the latest Ariba TPZ files to the SAP Process Integration system.

Procedure

1. Go to https://support.ariba.com/Connect/Log_In and log in.

   If you do not have a **User ID** and **Password** for SAP Ariba Connect, contact your SAP Ariba account executive.
2. On the **Home** page, click **Product Information and Documentation**.
3. Click Cloud Integration in the Product Information section and then click Resources.

   The Cloud Integration Resources page appears.
4. In the **Integration Tools** section, specify which package you want to download:
   - **Ariba Sourcing and Ariba Contract Management**
   - **Ariba Supplier Management**

   Based on the link you clicked, one of the following pages appears:
   - **Integration Tools for Ariba Sourcing and Ariba Contract Management**
   - **Integration Tools for Ariba Supplier Management**
5. From the **Tools** column of the **Integration Tools** table, click **SAP NetWeaver PI Mapping**.

   Based on the link you clicked in the previous step, one of the following pages appears:
   - **Sourcing SAP NetWeaver PI Mapping**
   - **Ariba Supplier Management Netweaver PI Mappings**

6. Click **Download** to download the .zip package.
7. Extract the contents of the .zip file to the SAP Process Integration system.

How to import the latest Ariba transports

Context

To set up SAP Ariba cloud integration solutions between SAP ERP and SAP Ariba applications, import the latest SAP Ariba transports to the SAP ERP or SAP S/4HANA system.

Procedure

1. Go to https://support.ariba.com/Connect/Log_In and log in.

   If you do not have a User ID and Password for SAP Ariba Connect, contact your SAP Ariba account executive.
2. On the **Home** page, click **Product Information and Documentation**.
3. Click Cloud Integration in the Product Information section and then click Resources.

   The Cloud Integration Resources page appears.
4. On the **Resources** tab, click one of the following links from the **Integration Tools** section to specify which package you want to download:
   - **Ariba Sourcing and Ariba Contract Management**
   - **Ariba Supplier Management**

   Based on the link you clicked, one of the following pages appears:
   - **Integration Tools for Ariba Sourcing and Ariba Contract Management**
   - **Integration Tools for Ariba Supplier Management**
5. From the **Tool** column of the **Integration Tools** table, click **ABAP Transports for SAP ERP**.

   Based on the link you clicked in the previous step, one of the following pages appears:
   - **Sourcing SAP Transports**
   - **Ariba Supplier Management SAP Transports**
6. Click **Download** to download the .zip package.
7. Extract the latest transport files and import that to the SAP ERP system.

Downloading the mapping workbook

Context

To understand the field mappings for various integrations, download the mapping workbook.

Procedure

1. Go to https://support.ariba.com/Connect/Log_In and log in.

   If you do not have a User ID and Password for SAP Ariba Connect, contact your SAP Ariba account executive.
2. On the **Home** page, click **Product Information and Documentation**.
3. Click Cloud Integration in the Product Information section and then click Resources.

   The Cloud Integration Resources page appears.
4. Click **Ariba Sourcing and Ariba Contract Management** from the **Integration Tools** section to specify which package you want to download.

   The **Integration Tools for Ariba Sourcing and Ariba Contract Management** page appears.
5. From the **Tool** column of the **Integration Tools** table, click **Mapping Workbooks**.

   The **Mapping Workbooks for Ariba Sourcing for Cloud Integration <Version>** appears.
6. Click **Download** to download and save the .xlsx file.

Setting up SAP Process Integration

To use mediated connectivity-based integrations including integrations that use Ariba Network adapter for SAP NetWeaver for SAP Ariba Contracts and SAP Ariba Sourcing, configure SAP Process Integration.

This chapter contains the following topics:

In this section:

Installing the components for SAP Ariba Sourcing in SAP Ariba cloud integration 9.0

The following list provides a high-level overview of the installation process for installing the components for SAP Ariba Start Sourcing.

1. Verify the SAP ERP version and complete the following checks:
   - Check the SAP_APPL ESR content version and ensure that the version meets the minimum requirements.
   - If you want to integrate Master Data Governance-based integrations such as SAP Ariba Supplier Information and Performance Management, check the BS_Foundation version.
2. Verify the SAP_APPL version on SAP Process Integration and ensure that the version matches the SAP_APPL version that runs on SAP ERP.
3. Import the CIM files [page 8] to the System Landscape Directory.
4. Install the software components. Note that some of the components are dependent on other components and the installation of a component might fail if the component on which it is dependent is not available in the ERS. When you install the new Ariba components, follow this sequence:
   1. Install `ARIBA_BASIS, CIx of ariba.com` and `ARIBA_ADAPTER, 1.0 of ariba.com`.
   2. **Note**

      The components listed in this step are dependent on the components specified in the first step.

      - `ARIBA_SOURCING_CUSTOM_ADAPTER, 1.0 of ariba.com`
      - `ARIBA_SOURCING_ADAPTER, CIx of ariba.com`

> **Note**
>
> `ARIBA_SOURCING_CUSTOM_ADAPTER, 1.0 of ariba.com` is dependent on `ARIBA_SOURCING_ADAPTER, CIx of ariba.com`.

5. In the System Landscape Directory, configure the following dependencies for the `ARIBA_SOURCING_ADAPTER, CIx of ariba.com`:
   - ARIBA_BASIS, CIx of ariba.com .
   - ARIBA_ADAPTER, 1.0 of ariba.com
   - ARIBA_SOURCING_CUSTOM_ADAPTER, 1.0 of ariba.com
   - SAP_BS_FOUNDATION
   - SAP_APPL

Configuring the system landscape directory

This topic contains the following sections:

In this section:

About configuring the system landscape directory

You can configure the SAP System Landscape Directory (SLD) by importing the Ariba product definitions, and defining the systems involved in the integration. The SAP SLD is a central repository that holds the information on the systems and software in the customer environment. The SAP SLD consolidates the information about actively available components and machines, instances, and clients on which the components are available.

SAP Ariba applications leverage all the advantages of the SLD in order to maintain the coherence of the system landscape as follows:

- It is defined as a product and component expressed in the Common Information Interface (CIM) format importable in the SLD
- It uses a configuration using technical and business systems involved in the integration between SAP ERP and SAP Ariba applications and are defined in the SLD.

You must make the following settings in the SLD:

- Import Ariba product and component [page 8] definitions.

- Define Technical and Business Landscape for the Ariba application
- Define Technical and Business Landscape for SAP ERP

The SAP Process Integration design packages (TPZ files) are available on https://support.ariba.com/Connect/Log_In in a ZIP file. You must download the following TPZ files for your required version:

- `AribaStrategicSourcingAdapter.tpz`
- `AribaStrategicSourcingCustomAdapter.tpz`

Importing product and component definitions for SAP Ariba applications

Context

Import the product and component definitions for the integration of sourcing, contracts, and supplier data.

Procedure

1. From the SAP Process Integration main page, open the SLD administration home page.
2. Navigate to the **Content** section, and then click **Import**.
3. Click the **Browse** button and choose the `Ariba_Sourcing_Adapter.SoftwareCatalog.zip` file.
4. Start the import.
5. In the Product Catalog, verify that the following product is available:
    - Vendor: ariba.com
    - Product: Ariba Sourcing Adapter
    - Version: Applicable version
6. Next, verify that the following components are available:
    - Vendor: ariba.com
    - Component: `ARIBA_SOURCING_ADAPTER, CIx of ariba.com`
    - Version: Applicable version

Configuring the technical landscape for SAP Ariba applications

Procedure

1. Choose Technical Landscape from the main SLD page to open the **Technical Landscape** page.
2. Click **New Technical System** here to open the Technical System Wizard.

3. From the wizard, choose **Third-Party** as the **Technical System Type** to set up a third-party (non-SAP) application such as SAP Ariba Sourcing or SAP Ariba Contracts, and then click **Next**.
4. Specify the system details as follows:
   - **System Name**: Specify a user-defined system name here. For example, **`Ariba Sourcing`**.
   - **Host Name**: Enter **`ariba_sourcing`** as the host name.
5. Click **Next**.
6. Associate the SAP Ariba product and components to the system next. Select the product **Ariba Sourcing** and then, click **Add**. Ensure that the components you want to implement are selected.
7. Click **Finish**.

Next Steps

Set up the business landscape for the SAP Ariba application using the Business Landscape Wizard.

Configuring the business landscape for SAP Ariba applications

Procedure

1. Choose **Business Landscape** from the main SLD page to open the **Business Landscape** page.
2. Click **New Business System** to open the Business System Wizard.
3. In the wizard, enter the business system name, for example, **`Ariba_Sourcing`**, and then click **Next**.
4. Choose **Third-Party** as the **Technical System Type**, and then click **Next**.
5. Associate the new business system with the required **Technical System**. From the drop-down, choose the technical system, `ariba_sourcing`, created in the previous procedure, and then click **Save**.

   > **Note**
   >
   > The **Logical System Name** is not mandatory.

6. Specify the installed products. Ensure that the product Ariba Sourcing Adapter and the related components such as `ARIBA_SOURCING_ADAPTER, CIx of ariba.com` on the technical system are selected, and then click **Next**.
7. Select the role of the business system. The only available **Business System Role** for a third-party Business System is **Application System**. Select your SAP Process Integration instance name from the drop-down to specify the **Related Integration Server**.
8. Click **Finish**.

Configuring the technical landscape for SAP ERP

Procedure

1. Choose **Technical Landscape** from the main SLD page to open the **Technical Landscape** page.
2. Click **New Technical System** to open the Technical System Wizard.
3. In the wizard, select **Web AS ABAP** as the **Technical System Type** and then, click **Next**.
4. To specify the SAP ERP system details, enter the Web AS ABAP name (SID), installation number, and database host name and click **Next**.
5. Specify the **Message Server** and **Central Application Server**. Specify the **Host Name**, **Message Port**, and **Logon Groups** for the Message Server. Enter the **Host Name** and **Instance Number** for the Central Application Server, and then click **Next**.
6. Optionally, define additional application servers. Specify the **Host Name** and **Instance Number** for the Application Server, and then click **Add**.
7. Click **Next**.
8. Define the Client. Specify the **Client Number** and then, click **Next**.
9. To add a **Logical System Name**, enter the system name, and then click **Add**. The logical system name is required for enabling the communication using IDocs between the SAP Process Integration and ERP systems, and is used for routing documents in multi-ERP implementations.
10. Define software product and components. Select the SAP ERP version installed on this technical system, as well all other products installed on the system, and then click **Add**.
11. Click **Finish**.

Next Steps

Set up the business landscape for the SAP ERP system using the Business Landscape Wizard.

Configuring the business landscape for SAP ERP

Procedure

1. Choose **Business Landscape** from the main SLD page to open the **Business Landscape** page.
2. Click **New Business System** to open the Business System Wizard.
3. In the wizard, enter the business system name. For example, `BS_SAPR3_47`.
4. Click **Next**.
5. Select **Web AS ABAP** as the **Technical System Type**, and then click **Next**.
6. Choose the technical system created in the previous procedure from the drop-down list, to associate it with the business system, select a client for the selected technical system, and then click **Next**.

7. Specify the installed products. Choose the products that must be supported by this business system from the ones available from the associated technical system, to install them in the business system, and then click **Next**.
8. Choose the role of the business system. Choose **Application System** as the **Business System Role** and choose your SAP Process Integration instance name from the dropdown to specify the **Related Integration Server**. In the case of application systems, specify the integration server.
9. Click **Finish**.

Configuring transaction processes

After you set up the System Landscape Directory, complete the following tasks:

- Import the design package containing the transactions supported by the SAP Ariba applications that you want to integrate with SAP ERP.
- Configure SAP Process Integration connectivity to SAP ERP.
- Configure SAP Process Integration value mapping to provide the global configuration.
- Configure the different transactions in the Integration Directory by importing the scenarios from the Integration Repository.
- Configure the communication channels and the conditions for routing messages, for each supported transaction.

> **Note**
>
> The names for objects in the Directory used in the configuration procedures are examples provided for illustration. You may use them or replace them with names and format corresponding to your system environment.

This topic contains the following sections:

In this section:

Configuring SAP ERP Connectivity

Context

To enable communication between SAP NetWeaver Process Integration and SAP ERP using IDoc documents, you need to configure several parameters on the SAP NetWeaver XI/PI ABAP stack.

Procedure

1. Using Transaction **SM59**, create an RFC destination of type **R/3** to connect to the SAP ERP system.
2. Using Transaction IDX1, create a Port for the new RFC destination. For example, for the SAP ERP system D47 client 800, you must use specify following parameters to create the port:
   - Port: SAPD47.
   - Client 800.
   - RFC Destination: Specify the destination created in SM59 here.

How to configure SAP ERP for IDoc transactions

Procedure

1. Run the transaction code `SM59` to create an RFC destination of type ERP.
2. Enter **Target host**, **System Number**, **Gateway host**, and **Gateway service** on the **Technical Settings** tab.
3. Enter **Language**, **Client**, **User**, and **Password** on the **Logon/Security** tab, and then save your entries.
4. Use the transaction code `WE21` to create a port.
5. Choose **Transactional RFC** and click **Create**.
6. Enter **Port**, **Description**, and **RFC destination** details, and then save your entries.

Configuring the partner profiles

Buyers can specify the partner profile for each vendor or maintain the partner profile at a logical system level for all vendors.

In this section:

How to configure a partner profile at vendor-level

Context

Specify a partner profile for the vendor.

Procedure

1. Run the transaction code `WE20` to create a partner profile for a vendor.
2. Choose Partner type **LI** (Vendor) and click **Create**.
3. Enter partner (vendor) number, partner type as (LI) and appropriate Type, Agent, and Lang.
4. Save your entries.
5. Click **Create outbound parameter** (the green plus sign).
6. Enter Partner function, Message type, Receiver port and Basic type.
7. On the **Message control** tab, enter Application, Message type, and Process code.
8. Save your entries.

How to configure the partner profile on the SAP ERP system

Context

SAP ERP buyers using the adapter for SAP Ariba Start Sourcing can maintain SAP ERP partner profile at a logical system level for all vendors. This eliminates the buyer's need to maintain multiple IDOC messages exchanged between SAP ERP and SAP Process Integration layer for each vendor. Buyers can maintain the partner profile on a logical system level for the QuoteRequest integration.

Procedure

1. Run the transaction code `BD54` to create a logical system.
2. Click **New Entries**.
3. In the column **Log.System**, enter the name of the logical system. Save the changes.
4. Run the transaction code `WE20` to create a partner profile.
5. Click the button **Create**. Create the partner profile as `Partner Type LS`.
6. Enter the logical system name in the text box **Partner No.**.
7. Enter `LS` as the logical system in the text box **Partn. Type**.
8. In the sections **Outbound parmtrs** and **Inbound parmtrs**, add the message type for each type of outbound and inbound transaction.
9. In the **Partner profiles: Outbound parameters**, ensure that you have the following values:

   Purchase Orders

   - **Message Type**: `REQOTE`
   - **Partner No.**: Name of the logical system
   - **Partn. Type**: `LS` (Logical system)
   - **Partner Role**: `LS`

In the tab **Outbound Options**, ensure that you have the following values:

- **Receiver port**: Name of the transactional RFC port
- **Transfer IDoc Immed.**: Selected
- **Basic type:** `ORDERS05`
- **Extension:** `/ARBA/RFQ`

In the tab **Message Control**, ensure that you have the following values in the table:

- **Application:** `EA`
- **Message type:** `NEU`
- **Process code:** `ME12`

10. Start the `NACE` transaction.
11. Choose application <EA>Purchasing RFQ and click **Condition records**.
12. Click **NEU** as the output type.
13. Double-click the **NEU** output type and click **Purchasing Output Determination: Doc. Type/Purch.Org/ Vendor.**.
14. Click **Enter**. Enter the values for the document type, purchase organization and vendor.
15. Specify the following in the page **Change Condition Record (New PO printout): Fast Change**:
    - **Vendor:** The vendor ID
    - **Funct:** `LS`
    - **Partner:** The logical system created in Step 1.
    - **Medium:** `6 EDI`
    - **Dispatch time:** `Send immediately`

Assigning business systems in the Integration Directory

Context

The Integration Directory configuration uses the information about Technical and Business systems from the System Landscape Directory. You must assign the Business Systems defined and involved in the integration setup.

Procedure

1. Open **Configuration: Integration Builder** from the **SAP Process Integration** main page.
2. In the **Objects** tab of the **Integration Builder**, navigate to **Service Without Party** > **Business System.**
3. From the context menu for **Business System,** choose **Assign Business System** to start the Assign Business System wizard.
4. Click **Continue** in the first and second windows. Leave the **Party** field in the second window blank.

5. In the third window, **Select Business Systems**, choose the business systems `BS_ASN` and `BS_SAPR3_50` from the list. For more information about creating business systems, the Configuring the system landscape directory [page 18] section.

> **Note**
>
> In the case of Multi-ERP implementation, you must select all the Business Systems that represent your SAP ERP instances involved in the integration.

6. Click to clear the **Create Communication Channel Automatically** check box, if it is checked, to avoid the creation of unwanted channels.
7. Click **Finish**.

Creating communication channels for SAP ERP

Context

Create the communication channels used for SAP ERP connectivity. You must create the RFC Receiver communication channels from the Integration Builder, to enable communication using the RFC invocation on the remote SAP ERP system. This channel will be used by almost all the scenarios and are common to all of them. Therefore, you only need to create them once, for each Business System corresponding to your SAP ERP.

Procedure

1. In the **Objects** tab of the Integration Builder, navigate to **Service Without Party > Business System > BS_SAPR3_46C > Communication Channel**.
2. From the context menu for **Communication Channel**, select **New**.
3. In the Create Object window, specify `CC_RFC_Receiver` as the name of the communication channel, in the **Communication Channel** field, and then click **Create**.
4. From the **Parameters** tab of the Edit Communication Channel window, click on the icon next to the **Adapter Type** field to display the list of adapter types. From the adapter type list window, select the following adapter and click **OK**:
   - Name: RFC
   - Namespace: http://sap.com/xi/XI/System
   - Software Component Version: SAP BASIS 7.10 of SAP NetWeaver PI 7.1 and SAP Basis 7.11 for SAP NetWeaver PI 7.1 Ehp1
5. After selecting the adapter, click the **Receiver** option, to select the corresponding type.
6. In the **Adapter Engine** field, select **Integration Server** or **Non-Central Adapter Engine**, depending on your configuration.
7. Edit the other parameters to match your SAP ERP system (**Application Server**, **System Number**, **Authentication Mode**, **Logon User**, **Logon Password**, **Logon Language**, **Logon Client**).

> **Note**
>
> Enter the password in UPPER case.

8. Edit the **Maximum Connections** option according to the excepted load.
9. Save and activate the communication channel.

   In the case of Multi-ERP implementation, you must create one `CC_RFC_Receiver` channel per Business System, representing each of the SAP ERP instances involved in the integration.

> **Note**
>
> You also need to create a proxy communication channel. For information about configuring an inbound proxy channel, see *Configuring the XI Receiver Adapter* on the SAP Help portal.

Configuring SAP NetWeaver PI value mapping

Configure SAP NetWeaver PI value mapping for supporting facilities such as IDoc Payload and standard code conversions.

For more information about feature-specific values, see the documentation [page 6] for the features that you want to integrate.

Configuring global variables

There are many parameters that are global for each of the supported scenarios when SAP Process Integration acts as the integration platform between SAP ERP and SAP Aribaapplications. This section describes the steps to configure global variables.

In the value mappings, use the following parameters for Global Variables:

- **Source Values**:
- **Agency**: `XI_Global`
- **Schema**: `GlobalVariable`
- **Target Values**:
- **Agency**: `XI`
- **Schema**: `GlobalVariable`

Key value pairs

XI_Global	XI	Description
AribaBuyerTimeZone	`+5:30`	Time zone of the SAP Ariba Buying solutions.

The **XI** column in the above table indicates a sample value.

Configuring integration scenarios in the integration directory

You need to import and configure integration scenarios in the SAP Process Integration Directory for the supported transactions. Use an integration scenario from the Integration Repository as a template for configuring the corresponding transaction in the Integration Directory. The Integration Scenarios are part of the Design package, which has to be imported into the Integration Repository first.

> **Note**
>
> Do not activate the Change Lists feature of Integration Builder Configuration Tool until all the configuration steps are completed.

For more information about configuring integration scenarios, see the feature documentation [page 6] for the transaction that you want to integrate.

Upgrading to SAP Ariba cloud integration release 9.0

If you are an existing customer upgrading the SAP Ariba cloud integration deployment to release 9.0, note that the CIM files and the software component names have changed in SAP Ariba cloud integration release 9.0 and you need to update the existing integration configurations. The package for SAP Ariba Start Sourcing contains the CIM files, design objects, and mappings for SAP Ariba Sourcing and SAP Ariba Contracts integrations with SAP ERP or SAP S/4HANA.

The following topic provides the steps for migrating customizations from your existing cloud integration installation to cloud integration release 9.0.

How to migrate customizations when you upgrade from SAP Ariba cloud integration releases lower than 9.0 to SAP Ariba cloud integration release 9.0 and higher

Context

You can use the release transfer tool to transfer customizations from your existing implementation to the new custom adapter software component version.

Procedure

1. From the **Enterprise Service Builder**, click **Tools** > **Transfer Design Objects**.

   The **Transfer Design Objects** wizard appears.
2. Click **Continue** to launch the **Select Source and Target** page.
3. In the **Source** field on the **Select Source and Target** page, specify the source software component: `ARIBA_SUPPLIER_CONN_ADAPTER, CIx of ariba.com`
4. In the **Target** field on the **Select Source and Target** page, choose `ARIBA_SOURCING_CUSTOM_ADAPTER, 1.0 of ariba.com` as the target software component.
5. Click **Continue**.
   The **Select Objects** page appears.
6. From the **Object Set** dropdown, choose **Individual Objects**.
7. Click the icon **Add Single Objects**.
   The **Add Single Object** page appears.

8. From the **Type** dropdown, choose **Message Mapping**.
9. Choose the message mappings that you need to migrate and click **OK**.
10. From the **Transfer Design Objects** window, click **Finish**.

    If conflicts occur, click **Continue** to ignore the conflicts and to complete the migration.

    If you chose to ignore conflicts, choose the version of the mappings you migrated, and click **Activate**.

Revision history

The following table provides a brief history of the updates to this guide. SAP Ariba updates the technical documentation for its cloud solutions if

- software changes delivered in service packs or hot fixes require a documentation update to correctly reflect the new or changed functionality;
- the existing content is incorrect or user feedback indicated that important content is missing.

SAP Ariba reserves the right to update its technical documentation without prior notification. Most documentation updates will be made available in the same week as the software service packs are released, but critical documentation updates may be released at any time.

Cloud integration release	Month/year of update	Updated chapter/section	Short description of change
9.0	December 2016	N/A	Initial release.
9.0 SP1	March 2017	N/A	Added support for SAP S/4HANA, on-premise edition 1610

Important Disclaimers and Legal Information

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Any software coding and/or code lines / strings ("Code") included in this documentation are only examples and are not intended to be used in a productive system environment. The Code is only intended to better explain and visualize the syntax and phrasing rules of certain coding. SAP does not warrant the correctness and completeness of the Code given herein, and SAP shall not be liable for errors or damages caused by the usage of the Code, unless damages were caused by SAP intentionally or by SAP's gross negligence.

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