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# RFQ and Award Integration with SAP Ariba Sourcing

SAP Ariba Sourcing  
SAP Strategic Sourcing Suite

# Content

<b>RFQ and Award Integration with SAP Ariba Sourcing . . . . .</b>	<b>5</b>
<b>About RFQ and Award Integration with SAP Ariba Sourcing . . . . .</b>	<b>6</b>
<b>SAP RFQ and Award Integration with SAP Ariba Sourcing and Award Integration Using Material Master Item Data. . . . .</b>	<b>7</b>
About SAP ERP and SAP S/4HANA Integration with SAP Ariba Sourcing . . . . .	7
About Creating Scheduling Agreements. . . . .	12
About Configuring SAP ERP and SAP S/4HANA Integration with SAP Ariba Sourcing . . . . .	14
SAP ERP and SAP S/4HANA RFQ and Award Integration Requirements. . . . .	15
SAP ERP and SAP S/4HANA RFQ and Award Integration Limitations. . . . .	16
Installation of SAP ERP Integration Components for RFQ and Award Integration. . . . .	17
Updating and Configuring the cXML Adapter Version for SAP RFQ and Award Integration. . . . .	17
Installing the Transports for SAP RFQ and Award Integration. . . . .	18
Installing SAP ERP Enhancements for QuoteRequest Functionality. . . . .	18
Installing SAP ERP Enhancements for RFQ Cancellation Functionality. . . . .	19
Required and Recommended SAP Support Notes for SAP RFQ and Award Integration. . . . .	20
Configuring Implicit Enhancements for New Purchase Orders for SAP RFQ and Award Integration . . . . .	20
Implementing Enhancements for Service Sheets Created for Changed or Canceled Purchase Orders. . . . .	22
Maintaining the Parameter for Confirmation Messages to SAP Ariba Sourcing . . . . .	23
Configuring SAP NetWeaver PI Value Mappings for SAP RFQ and Award Integration with SAP Ariba Sourcing . . . . .	24
About Pricing Conditions in SAP RFQ and Award Integration with SAP Ariba Sourcing. . . . .	24
Pricing Conditions as an Intrinsic Element. . . . .	25
Pricing Conditions as an Extrinsic Element. . . . .	32
QuoteRequest Integration Scenario. . . . .	35
Transferring the Integration Scenario (QuoteRequest). . . . .	36
Topics About Configuring the Integration Scenario (QuoteRequest). . . . .	37
Configuring the Communication Channel (QuoteRequest). . . . .	40
Configuring the Interface Determination Settings (QuoteRequest). . . . .	41
Activating the Integration Scenario (QuoteRequest). . . . .	41
QuoteMessage Integration Scenario. . . . .	42
Transferring the Integration Scenario (QuoteMessage). . . . .	42
Topics About Configuring the Integration Scenario (QuoteMessage). . . . .	43
Configuring the Communication Channel (QuoteMessage). . . . .	47
Configuring the Interface Determination Settings (QuoteMessage). . . . .	47

Activating the Integration Scenario (QuoteMessage). . . . .	48
Custom Field Integration with SAP S/4HANA or SAP S/4HANA Cloud. . . . .	49
Creating an ERP Integration Field in SAP Ariba Sourcing . . . . .	49
Creating Term Fields for Line Item-Level Custom Fields. . . . .	50
<b>Oracle RFQ and Award Integration with SAP Ariba Sourcing . . . . .</b>	<b>52</b>
About Oracle RFQ and Award Integration with SAP Ariba Sourcing . . . . .	52
RFQ and Sourcing Award Documents for Oracle ERP Users. . . . .	53
Prerequisites for Oracle RFQ and Award Integration with SAP Ariba Sourcing . . . . .	54
Oracle ERP Integration Limitations. . . . .	55
Support for Oracle RFQ and Award Integration. . . . .	55
Configuring Integration for RFQs Created in Oracle Financials. . . . .	56
Configuring Integration for QuoteMessages. . . . .	56
Managing Support for RFQ and QuoteMessage Transactions. . . . .	57
Monitoring the RFQ and QuoteMessage Transactions with Oracle. . . . .	57
Customizing RFQ and QuoteMessage Transactions with Oracle. . . . .	57
<b>Configuring SAP Ariba Sourcing and SAP Business Network for Integration with an ERP System. . . . .</b>	<b>59</b>
About Configuring SAP Ariba Sourcing and SAP Business Network for Integration with an ERP System . . . . .	59
Configuring SAP Ariba Sourcing for Integration with an ERP System. . . . .	60
Configuring SAP Business Network for Integration with an ERP System (SAP Ariba Customer Support). . . . .	60
Configuring SAP Business Network for Integration with an ERP System (SAP Business Network Buyers). . . . .	61
Creating Sourcing Events from Sourcing Requests. . . . .	62
<b>Creating Sourcing Request Templates for ERP Integration. . . . .</b>	<b>65</b>
<b>Configuring Sourcing Request Templates to Use External System Fields. . . . .</b>	<b>68</b>
ERP Field Mapping Limitations and Considerations for SAP Ariba strategic sourcing solutions . . . . .	70
<b>Configuring Sourcing Request Templates for Service Items. . . . .</b>	<b>72</b>
<b>Disabling RFQ ERP Integration. . . . .</b>	<b>75</b>
<b>SAP ERP Functionality and Mapping Information for QuoteRequest and QuoteMessage Documents. . . . .</b>	<b>76</b>
Topics About QuoteRequest and QuoteMessage Document Creation and Processing. . . . .	77
SAP ERP Integration with SAP Ariba Sourcing Data Flow. . . . .	77
About the SAP ERP RFQ Process. . . . .	78
About SAP ERP and SAP NetWeaver PI Features for RFQ and Award Integration. . . . .	80
About SAP ERP Contract, Scheduling Agreement, and Purchase Order Creation. . . . .	81
Data Flow for Update and Delete Requests Between SAP Ariba Sourcing and SAP ERP. . . . .	82

QuoteRequest Documents for SAP Ariba Sourcing Integration. . . . .	83
QuoteRequestHeader for SAP Ariba Sourcing Integration. . . . .	84
QuoteItemOut for SAP Ariba Sourcing Integration. . . . .	85
cXML QuoteRequest to SAP Ariba Sourcing Field Mapping. . . . .	88
QuoteMessage Documents for SAP Ariba Sourcing Integration. . . . .	91
QuoteMessageHeader for SAP Ariba Sourcing . . . . .	91
QuoteItemIn for SAP Ariba Sourcing Integration. . . . .	93
SAP Ariba Sourcing Field to cXML QuoteMessage Mapping. . . . .	95
Example: QuoteMessage Extrinsic for SAP Ariba Sourcing Integration with SAP ERP. . . . .	97

# RFQ and Award Integration with SAP Ariba Sourcing

This guide is for SAP Ariba buyer users and administrators who want to create an SAP Ariba Sourcing RFQ using data from an external system and send award information to an external system.

Buyers create SAP Ariba Sourcing events based on the information received from an ERP system and send award data back to the ERP system to create a purchase order, contract, or scheduling agreement.

This guide applies to:

- SAP Ariba Sourcing
- SAP Ariba Strategic Sourcing Suite

## Related Guides

[Event Management Guide](#)

[Event Rules Reference Guide](#)

# About RFQ and Award Integration with SAP Ariba Sourcing

RFQ and award integration with SAP Ariba Sourcing includes the following features:

- SAP RFQ and award Integration with SAP Ariba Sourcing
- Oracle RFQ and award integration with SAP Ariba Sourcing
- Award integration using material master item data

The SAP RFQ and award integration with SAP Ariba Sourcing and Oracle RFQ and award integration with SAP Ariba Sourcing features enable you to create SAP Ariba Sourcing events based on the information received from an ERP system. These features can also send award data to an ERP that the ERP uses to create a purchase order, contract, or scheduling agreement. For more information, see [Creating Events from a Sourcing Request](#) in [Event Management Guide](#).

The Award integration using material master item data feature enables you to send SAP Ariba Sourcing award data to an SAP ERP without creating an RFQ on the ERP. Your SAP Ariba Sourcing installation must be configured for master data integration with an SAP ERP.

# SAP RFQ and Award Integration with SAP Ariba Sourcing and Award Integration Using Material Master Item Data

[About SAP ERP and SAP S/4HANA Integration with SAP Ariba Sourcing \[page 7\]](#)

[About Configuring SAP ERP and SAP S/4HANA Integration with SAP Ariba Sourcing \[page 14\]](#)

[Installation of SAP ERP Integration Components for RFQ and Award Integration \[page 17\]](#)

[Configuring SAP NetWeaver PI Value Mappings for SAP RFQ and Award Integration with SAP Ariba Sourcing \[page 24\]](#)

[About Pricing Conditions in SAP RFQ and Award Integration with SAP Ariba Sourcing \[page 24\]](#)

[QuoteRequest Integration Scenario \[page 35\]](#)

[QuoteMessage Integration Scenario \[page 42\]](#)

[Custom Field Integration with SAP S/4HANA or SAP S/4HANA Cloud \[page 49\]](#)

## About SAP ERP and SAP S/4HANA Integration with SAP Ariba Sourcing

This topic describes SAP ERP and SAP S/4HANA integration with SAP Ariba Sourcing to allow RFQ and award integration.

SAP ERP and SAP S/4HANA integration with SAP Ariba Sourcing includes the following features:

- SAP RFQ and Award Integration with SAP Ariba Sourcing
- Award Integration Using Material Master Item Data

### SAP RFQ and Award Integration with SAP Ariba Sourcing

The SAP RFQ and award integration with SAP Ariba Sourcing feature enables you to create sourcing events based on the information received from SAP ERP. The integration can also send award data to an ERP that the ERP uses to create a purchase order, contract, or scheduling agreement.

The data flow for SAP RFQ and Award Integration with SAP Ariba Sourcing is as follows:

- An ERP user creates a Request for Quotation (RFQ).
- A cXML `quoteRequest` document is sent from the ERP through SAP Business Network to SAP Ariba Sourcing.
- SAP Ariba Sourcing creates a sourcing request from the `quoteRequest` document.

## Note

If an update `quoteRequest` is received while editing an RFQ in SAP S/4HANA and the sourcing request is in the canceled state, SAP Ariba Sourcing updates the sourcing request to the active state.

- In most cases, the sourcing request contains a sourcing event or sourcing project as a subproject of the request and an approval task. The subproject becomes visible after the approval task is completed.
- The event manager uses the subproject to create a sourcing event or project based on the information in the sourcing request. Sourcing requests typically contain a Sourcing Request Items document with information from the RFQ, including line items from the ERP RFQ.  
If a **Quick Project** (event) is created, the event is populated with header fields and event information (including line items) from the sourcing request and the Sourcing Request Items document.  
If a **Full Project** is created, the project is populated with header fields from the sourcing request. If an event is created in the full project, event managers can choose the ► **Add ► Content from Sourcing Request** ► option on the **Content** page for the event to add information (including line items) from the Sourcing Request Items document.
- After the event is completed and awards are created, the event manager can choose to send award data back to the ERP. SAP Ariba Sourcing sends cXML `quoteMessage` documents with the award data back to the ERP through SAP Business Network. The ERP creates a purchase order, contract, or scheduling agreement from each cXML document.

## Award Integration Using Material Master Item Data

The Award Integration Using Material Master Item Data feature enables users to send data from a sourcing award to an SAP ERP to create purchase order, contract, and scheduling agreement documents. The award can be created from a sourcing event that originates on the SAP Ariba system (no RFQ from the SAP ERP is required), but SAP Ariba Sourcing must have material master item data loaded from the SAP ERP. To send the award to the ERP:

- The awarded items must be entries from the material master item data or ad hoc items (items created manually). Ad hoc items must be entered with **Item Category** and **Material Group** values specified.
- You must have an active relationship with the awarded suppliers on SAP Business Network and each supplier must have a valid Vendor Key configured.

The data flow for Award Integration Using Material Master Item Data is as follows:

- An SAP Ariba Sourcing event is created. The event typically includes items from the material master item data that was imported from the SAP ERP. If the event includes ad hoc items (items created manually) that will be included in award data sent to the ERP, they must have **Item Category** and **Material Group** values specified.
- After the event is completed and awards are created, the event manager chooses to send award data back to the ERP. SAP Ariba Sourcing sends cXML `quoteMessage` documents with the award data back to the ERP through SAP Business Network. The ERP creates a purchase order, contract, or scheduling agreement from each cXML document.

## Mapping SAP Field Values to SAP Ariba Field Values

By default, most SAP RFQ data fields sent in a `quoteRequest` are automatically mapped to SAP Ariba project header fields and line item terms with the same (or similar) names and the same values, as described in



[QuoteRequest Documents for SAP Ariba Sourcing Integration \[page 83\]](#). Some SAP RFQ data fields sent in a `quoteRequest` serve a similar purpose as SAP Ariba field values, but might not have the same values. SAP Ariba supports the following features to map SAP field values to SAP Ariba field values:

SAP field	SAP Ariba field	For configuration information, see...
Plant	Region	<a href="#">Mapping SAP Plant Values to SAP Ariba Region Values in Common Data Import and Administration Guide for SAP Ariba Strategic Sourcing Solutions and SAP Ariba Supplier Management Solutions.</a>
Classification (Class)	Commodity Code (item Commodity term)	<a href="#">Commodity Codes and Commodity Code Mappings Definitions in Common Data Import and Administration Guide for SAP Ariba Strategic Sourcing Solutions and SAP Ariba Supplier Management Solutions.</a> <div> <p><b>Note</b></p> <p>This configuration must be done by SAP Ariba Customer Support.</p> </div>
Other fields sent as extrinsics in <code>quoteRequest</code> messages.		<a href="#">Creating Sourcing Request Templates for ERP Integration [page 65]</a> and <a href="#">ERP Field Mapping Limitations and Considerations for SAP Ariba strategic sourcing solutions [page 70]</a> .

You can also configure SAP Ariba to populate the **Regions** and **Commodity** project header fields in sourcing requests with **Region** and **Commodity** values from line items. For more information, see [Rolling up line-level regions and commodity values to header Regions and Commodity fields](#) in [Event Management Guide](#).

## SAP Service Items and Service Hierarchies (CXML Adapter Version 1.2.034 or Later)

When using cXML adapter version 1.2.034 or later with the service hierarchy feature, RFQ information sent from SAP (`quoteRequest` documents) and award data sent to SAP (`quoteMessage` documents) can contain data for SAP service items (SAP Item Category D items) that have a hierarchy with the following structure:

- **Service line:** The top-most level of a service hierarchy is a service line. A service line can contain both child service lines and service specifications; all service outlines and service specifications must be created inside a service line.
  - **Service outline:** Service outlines are optional and can be used to organize service specifications. Service outlines do not contain any terms. A service line can contain 0 - 4 service outlines. A service outline can contain both child service outlines and service specifications.
  - **Service specification:** A service specification specifies a service to be performed. A service specification cannot have any children below it, so it is the smallest unit of work or service that you want to track. Note that a sourcing event award cannot be split for a service specification (you must allocate 100% of an award for a service specification to a single supplier).

Each service item hierarchy can include spend limits (Overall Limit) towards the total cost of unplanned service line items in the award. The Overall Limit is the maximum value towards the total of all unplanned services.

You can also add service items to sourcing events directly from the SAP Ariba interface (the service items do not originate from an SAP RFQ).

### ⚠ Limitations

If the sourcing event was created from an SAP RFQ (from a sourcing request that was created from an SAP RFQ) and you will send award data back to SAP, **do not add service lines to the event**. If you add service lines to an event that contains service items from an SAP RFQ and send award data back to SAP, SAP ignores any added service lines (service lines that did not originate from the SAP RFQ) and does not create service items for the added service lines.

You can export award information to SAP that contains service line items.

When SAP ERP receives the award containing service items from SAP Ariba Sourcing it creates a purchase order or outline agreement (contract). SAP Ariba Sourcing receives a confirmation message, records the results in the event audit log (under the event's **Log** tab), and sends an email notification to team members.

You can also use service hierarchies in SAP Ariba Contracts contract line items documents (CLIDs). If you create a contract workspace with a CLID from an event award, the CLID will inherit service hierarchies (and line items) from the award. You can also manually add service hierarchies to CLIDs. In addition, you can send CLID data to the SAP ERP.

## SAP Service Line Item Types and Alternative Service Items (CXML Adapter Version 1.2.034 or Later)

If your site is configured for service hierarchies and also has the the Alternate Service Line Type feature enabled, you can import service line specifications with different types and with alternatives from an external SAP system to an SAP Ariba sourcing request, and then create a sourcing event from the request. You can export the award information from the event back to the SAP external system.

If you have contract line items documents enabled for SAP Ariba Contracts, a contract workspace created from a sourcing event can inherit service line specifications from the sourcing event. (However, you cannot export information about the different line types and alternatives from SAP Ariba Contracts to the SAP external system.)

You use **alternative** service specifications for services that can be performed in alternative ways. For example, if you want a building painted, you can use alternative service specifications to specify alternative painting services based on the type of paint used (oil or latex).

Alternative line service specifications have the following characteristics:

- An alternative service line specification always has a corresponding, basic (non-alternative) service line specification.
- To include an alternative service line specification in an award, you must also include its corresponding basic service line specification.
- Prices for alternative service line specifications are not included in any price rollups.

This feature uses the following new terms in service specifications:

- **Service Line Type**

Type of service line. Valid values:

- **blanket**: A service in which a quantity is not specified (the default quantity 1 is used); it can be comprised of multiple services but is priced as a single item.
- **contingency**: A service that is not required and only used when necessary, such as hazardous waste removal. Prices of contingency service items are not included in any price rollups.
- **information**: A line used to store additional text.
- **openquantity**: A service for which the buyer requires that the bidder offer the quantity for a specific partial service
- **standard**: A standard service. Prices of standard service items are included in price rollups if **Alternate Type** is **basicLine** but not if **Alternate Type** is **alternativeLine**.

**Alternative Type**

Classification for alternative service lines. Valid values:

- **alternativeLine**: A line item that is an alternative to a **basicLine**; the line for which it is an alternative is specified by the **Alternate To Item** term.
- **basicLine**: A line item with corresponding alternative lines.
- **noAlternative**: A line item with no corresponding alternative lines and which is not an alternative to another line item.

- **Alternate To Item**

Reference to a basic line item for which this item is an alternative. The value is formed using the line number of the corresponding basic line item, followed by the description of the basic line item. For example, 1.1 My Basic Service.

The following is a simplified representation of a service item hierarchy with the new terms:

```
2. Service items
  2.1 Building services
    2.1.1 Prepare site
      Service Line Type: standard
      Alternate Type: basicLine
      Alternate To Item: (no value)

    2.1.2 Paint 5000 square meters - matte oil
      Service Line Type: standard
      Alternate Type: alternativeLine
      Alternate To Item: 2.1.1 Prepare Site

    2.1.3 Paint 5000 square meters - matte latex
      Service Line Type: standard
      Alternate Type: alternativeLine
      Alternate To Item: 2.1.1 Prepare Site

    2.1.4 Remove asbestos
      Service Line Type: contingency
      Alternate Type: noAlternative
      Alternate To Item: (no value)
```

In this example, items 2.1.2 (Paint 5000 square meters - matte oil) and 2.1.3 (Paint 5000 square meters - matte latex) are both alternatives for basic item 2.1.1 (Prepare site). An award with item 2.1.2 or 2.1.3 must also include the corresponding basic item 2.1.1. An award could optionally include the contingency service item 2.1.4 (Remove asbestos), if needed.

## SAP Simple Service Items (cXML Adapter Version 1.2.031, 1.2.032, or 1.2.033)

When using cXML adapter version 1.2.031, 1.2.032, or 1.2.033, RFQ information sent from SAP (`quoteRequest` documents) and award data sent to SAP (`quoteMessage` documents) can contain data for SAP service items (SAP Item Category D items) that have a single-level hierarchy. To retain service item information from an SAP RFQ and send it back to SAP, you must install and configure version 1.2.031 or later of the SAP Ariba cXML adapter.

Users can also add ad hoc line items for service items to a sourcing event. To send service item data to SAP for ad hoc line items:

- Your SAP Ariba site must import material master data (including Item Category data) from SAP, as described in [Common Data Import and Administration Guide for SAP Ariba Strategic Sourcing Solutions and SAP Ariba Supplier Management Solutions](#).
- The **Item Category** term value **D (Service)** (the **Item Category** value **D** is defined in the material master data imported from the SAP ERP) is selected for the item in SAP Ariba Sourcing.

### Note

Ariba Network adapter for SAP NetWeaver supports end-to-end integration of only service child items of standard line types.

## About Creating Scheduling Agreements

In addition to creating purchase orders and contracts in SAP ERP or SAP S/4HANA based on the RFx sourcing awards, you can also create scheduling agreements from SAP Ariba Sourcing.

When you create a sourcing event in SAP Ariba Sourcing, you can select the type of the follow-on document that needs to be created at the SAP ERP or SAP S/4HANA system. You can specify the follow-on document type in the **Document Type** and **Document Category** dropdowns of a sourcing event. The values selected for document type and document category indicate the type of follow-on document that you want to create in the SAP ERP or SAP S/4HANA system based on the RFx sourcing award from SAP Ariba Sourcing.

To create a scheduling agreement, you must select **Scheduling Agreement** as the document type, and **LP Scheduling Agr. w/o release doc.** or **LPA Scheduling Agr. with release doc.** as the document category. For more information, see [Creating SAP Ariba Sourcing Events](#) in [Event Management Guide](#).

You can also create scheduling agreements in SAP ERP or SAP S/4HANA by creating award scenarios in SAP Ariba Sourcing. For more information, see [Awarding Events Using Manual Scenarios](#) in the [Event Management Guide](#).

Scheduling agreements also support the use of pricing conditions such as validity periods and scales. For more information, see [RFPs with Pricing Conditions](#) in the [Event Management Guide](#).

## Prerequisites

- SAP Ariba Sourcing must be integrated with SAP ERP or SAP S/4HANA on premise through SAP Ariba Cloud Integration Gateway.

- SAP ERP or SAP S/4HANA must be configured as an external system for your site in the ► **Manage** ► **Administration** ► **Master Data Manager** ► **External System Configuration** ► page.
- Your site must be configured to use master data from SAP ERP or SAP S/4HANA. For more information, see [Configuring an External System for Master Data](#) in [Common Data Import and Administration Guide for SAP Ariba Strategic Sourcing Solutions and SAP Ariba Supplier Management Solutions](#) guide.
- Ensure that the header-level fields for SAP ERP or SAP S/4HANA are configured in the **External System Integration** section of the RFx sourcing event for creating scheduling agreements.
- To use pricing conditions in scheduling agreements, you must enable the **Allow Pricing Conditions** rule in the **Bidding Rules** section of the sourcing event template.

## Restriction

- SAP Ariba Sourcing does not support service line items in RFx sourcing events for scheduling agreements.
- SAP S/4HANA Cloud integrated with SAP Ariba Sourcing through SAP Ariba Cloud Integration Gateway does not support scheduling agreements through RFx awards or award scenarios.
- Update scenario for RFx awards is not supported in SAP Ariba Sourcing.

## Workflow for Creating Scheduling Agreements in SAP ERP or SAP S/4HANA from SAP Ariba Sourcing

The following is the workflow to create scheduling agreements in SAP ERP or SAP S/4HANA from the RFx sourcing awards in SAP Ariba Sourcing:

1. Configure the SAP ERP or SAP S/4HANA system as an external system for your site in the ► **Manage** ► **Administration** ► **Master Data Manager** ► **External System Configuration** ► page as described in [Common Data Import and Administration Guide for SAP Ariba Strategic Sourcing Solutions and SAP Ariba Supplier Management Solutions](#).

### Note

If your site has multiple external systems configured, contact SAP Ariba Support to enable the necessary integration.

2. Create a sourcing event with an RFx event template in SAP Ariba Sourcing. You can use an RFx event template that has been configured to use pricing conditions for line items.

### Note

You can also create scheduling agreements in SAP ERP or SAP S/4HANA by creating award scenarios from the **Scenario** tab of the RFx event in SAP Ariba Sourcing. Create a scenario, select **Scheduling Agreement** from the **Document Type** dropdown and select the document category as per your business requirements from the **Document Category** dropdown. For more information on creating award scenarios, see [About Awarding Events](#) in [Event Management Guide](#).

3. In the **External System Integration** section, set the header-level fields and the line item-level fields. From the **Document Type** dropdown, select **Scheduling Agreement**; from the **Document Category** dropdown, select the document category for scheduling agreements as per your business requirements; and publish the event.
4. Suppliers bid on the sourcing event and SAP Ariba Sourcing creates an award for the winning bid.
5. Send the award information to SAP ERP or SAP S/4HANA system by selecting ► **Actions** ► **Send Quotes to External System** .  
SAP Ariba Sourcing sends the award as a `QuoteMessage` to the SAP ERP or SAP S/4HANA system.
6. Based on the information in the `QuoteMessage` for the award, a scheduling agreement is created in the SAP ERP or SAP S/4HANA system.

## About Configuring SAP ERP and SAP S/4HANA Integration with SAP Ariba Sourcing

This topic describes how to configure SAP ERP and SAP S/4HANA integration with SAP Ariba Sourcing to allow RFQ and award integration.

The topics in this section describe how to install and configure components for the following features:

- SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing (receives `QuoteRequest` cXML documents and sends `QuoteMessage` cXML documents)
- Award Integration Using Material Master Item Data (sends `QuoteMessage` cXML documents)

To configure the components for SAP ERP integration with SAP Ariba Sourcing, complete the procedures in the following topics:

- Install integration components.
  - [Updating and Configuring the cXML Adapter Version for SAP RFQ and Award Integration \[page 17\]](#)
  - [Installing the Transports for SAP RFQ and Award Integration \[page 18\]](#)
  - [Installing SAP ERP Enhancements for QuoteRequest Functionality \[page 18\]](#)
  - [Installing SAP ERP Enhancements for RFQ Cancellation Functionality \[page 19\]](#)
  - [Required and Recommended SAP Support Notes for SAP RFQ and Award Integration \[page 20\]](#)
- Customize ERP components as needed.
  - [Configuring the Integration to Use Pricing Conditions as an Extrinsic Element \[page 32\]](#)
  - [Evaluate ERP functionality and mapping information for customization \[page 76\]](#)
- [Configuring SAP NetWeaver PI Value Mappings for SAP RFQ and Award Integration with SAP Ariba Sourcing \[page 24\]](#)

### Note

Skip this procedure if you are not using the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing feature.

- [QuoteRequest Integration Scenario \[page 35\]](#) (skip this procedure if you are using only the Award Integration Using Material Master Item Data feature)
- [QuoteMessage Integration Scenario \[page 42\]](#)
- [Configuring SAP Ariba Sourcing and SAP Business Network for Integration with an ERP System \[page 59\]](#)

- [Creating Sourcing Request Templates for ERP Integration \[page 65\]](#)

#### 📘 Note

Skip this procedure if you are not using the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing feature.

## Additional Configuration Requirements for Award Integration Using Material Master Item Data

- Your site must have item master data loaded from SAP ERP. Your site must be integrated with an SAP ERP using Direct Connectivity or Mediated Connectivity and have SAP ERP configured as an **External System** in the **Master Data Manager** area of Ariba Administrator.  
For information about configuring item master data integration with the SAP ERP, see [Master data integration between SAP ERP and SAP Ariba Sourcing](#).  
For information about configuring the SAP ERP and managing master data loads, see [Configuring an External System for Master Data](#).
- Your site must be configured to send cXML QuoteMessage documents to SAP ERP through SAP Business Network and Ariba Network adapter for SAP NetWeaver as described in the following topics.

## SAP ERP and SAP S/4HANA RFQ and Award Integration Requirements

You require the following to send request for quotations and receive awards (QuoteMessage) from SAP Ariba Sourcing and contracts from SAP Ariba Contracts:

- Ensure that your Software Component Version is SAP APPL 604 or higher.
- Configure the SAP Ariba cXML Adapter to use cXML version 1.2.034 or higher, which supports new `quoteRequest`, `quoteMessage`, and `contractRequest` intrinsic elements for service line item hierarchies.
- Based on the Software Component Version, you also need to install the corresponding ESR (Enterprise Service Repository) content from SAP Market Place. Ensure that you download and install the `SAP_APPL_6.XX_XX_XX.tpz` file for the SAP ERP Enterprise Services package.
- If you use SAP EHP4 (SAP\_APPL 604 SPS05) or SAP EHP5 (SAP\_APPL 605), you require the following SAP Notes:
  - 1604359 - Changing data in BAdI `pur_se_pcerpmntrq1_asyn` has no effect
  - 1409742 - PurchaseContract Confirmation Service is not triggered
  - 2050740 - Header conditions not created using `PurchasingContractERPReq`
  - 1999276 - `PurchasingContractERPRequest_V1`: gives error Reduce number of hierarchy levels to a maximum of four even if the hierarchy level is less than four
  - 1596980 - Pricing error SE377 for CCM reference
  - 1584142 - `PurOrdERPReqIn_V1`: Error in `CashDiscountTerms`
  - 2112855 - BAPI: Error condition does not clear between processing for material and service items combination in SAP EHP 4 and above.
  - [2020660](#) - *Update Termination in ME\_UPDATE\_DOCUMENT (POEXT)* might require implementation if it is not already installed and errors are generated when changing or updating a PO.

- Buyers and suppliers must configure the required rules and necessary settings in their SAP Business Network, SAP Ariba Sourcing, and SAP Ariba Contracts user accounts to send and receive `quoteRequest`, `quoteMessage`, and `contractRequest` for service line item hierarchies. For more information, see the following guides:
  - [Ariba Network buyer administration guide](#) - section [Configuring Ariba Network](#)
  - [Common data import and administration guide for SAP Ariba Procurement solutions](#) - section [Topics about bulk import of contract requests](#)
  - [RFQ and Award Integration with SAP Ariba Sourcing \[page 5\]](#) - section [SAP RFQ and Award Integration with SAP Ariba Sourcing and Award Integration Using Material Master Item Data \[page 7\]](#)
  - [Managing Projects, Teams, Documents, and Tasks](#) - section [Contract Line Items Documents \(CLIDs\)](#)
- Reconfigure the SAP Partner Profile (WE20) to modify the configuration of service orders.
- Create an implicit enhancement for service order functionality in the SAP ERP system.
- If you are an existing customer using SAP Ariba cloud integration release 9.0 and earlier, and receive contracts with service line items from SAP Ariba Contracts, ensure that you configure to use the new integration scenarios `AR_ContractRequest_V1_Send` and `AR_ContractStatusUpdate_V1_Receive`. These new integration scenarios support both material items and multiple service line items. The existing integration scenarios `AR_ContractRequest_Send` and `AR_ContractStatusUpdate_Receive` only support material items and do not support multiple service line items.
- If you are an existing customer using SAP Ariba cloud integration release 9.0 and earlier, you no longer require enhancement `LEINMF0Q` for the request for quotation cancellation.
- Attachments for request for quotations are supported at both header-level and line item-level from SAP Ariba cloud integration release 7.0 and higher. SAP ERP allows you to add line-level attachments to requests for quotations for both new and change requests for quotations. You need to configure the DMS on your SAP ERP system to add the attachment for line items.

## SAP ERP and SAP S/4HANA RFQ and Award Integration Limitations

SAP ERP to SAP Ariba Sourcing integration has the following limitations.

- SAP ERP can only create purchase orders, contracts, and scheduling agreements from SAP Ariba Sourcing awards.
- Attachments are not transferred to purchase orders in SAP ERP.
- The RFQ update operation transfers only line item changes, not header-level changes, into the Sourcing Request.
- Network vendor master data integration is not supported.
- SAP ERP only accepts awarded quote messages to generate purchase orders, contracts, or scheduling agreements. Awards are not generated within SAP ERP.
- When integrated with SAP using cXML adapter version 1.2.031, 1.2.032, or 1.2.033, SAP Ariba Sourcing and SAP Ariba Contracts only support "simple" service line items (service line item hierarchies with one level). Do not send RFQs with service sheets that contain more than one level in the hierarchy.
- SAP ERP allows you to add header-level attachments only for "Change" status requests for quotations.
- The last level outline must contain at least one service specification. For example, if the service item has a four-level hierarchy, ensure that you do not leave the fourth-level hierarchy blank. The last service item in a request for quotation containing hierarchies cannot be left empty.



- Request for quotations cannot contain spend limits (Overall limit and Expected value).
- The pricing conditions are only supported at the line item-level in purchase orders.
- The contracts support pricing conditions only at the service specification level.
- The service item hierarchy functionality requires SAP ERP 6.0, EHP 4 and greater. Attempting to create a purchase order with a 5-level deep hierarchy when using EHP3 or lower generates an error message in PO **Message** tab.
- Service hierarchies are not supported for order confirmations.
- SAP S/4HANA Cloud integrated with SAP Ariba Sourcing through SAP Ariba Cloud Integration Gateway does not support scheduling agreements through RFx awards or award scenarios.
- SAP Ariba Sourcing does not support service line items in RFx sourcing events for scheduling agreements.
- Update scenario for RFx awards is not supported in SAP Ariba Sourcing.

## Installation of SAP ERP Integration Components for RFQ and Award Integration

[Updating and Configuring the cXML Adapter Version for SAP RFQ and Award Integration \[page 17\]](#)

[Installing the Transports for SAP RFQ and Award Integration \[page 18\]](#)

[Installing SAP ERP Enhancements for QuoteRequest Functionality \[page 18\]](#)

[Installing SAP ERP Enhancements for RFQ Cancellation Functionality \[page 19\]](#)

[Required and Recommended SAP Support Notes for SAP RFQ and Award Integration \[page 20\]](#)

[Configuring Implicit Enhancements for New Purchase Orders for SAP RFQ and Award Integration \[page 20\]](#)

[Implementing Enhancements for Service Sheets Created for Changed or Canceled Purchase Orders \[page 22\]](#)

[Maintaining the Parameter for Confirmation Messages to SAP Ariba Sourcing \[page 23\]](#)

## Updating and Configuring the cXML Adapter Version for SAP RFQ and Award Integration

To receive RFQs (cXML QuoteRequest documents) from an external system or to send award data (cXML QuoteMessage documents) back, you must use version 1.2.025 (or later) of the cXML adapter.

### Procedure

1. Upgrade your cXML adapter to version 1.2.025 or later.
  - a. Download an archive with the latest version of the cXML adapter from the following location:

`root/Archive/SCA/AribaNetworkAdapterSAPNetweaver.sca`

Where `root` is the root directory for your NetWeaver installation.

- b. Deploy the archive.
2. Update the communication channel with the new cXML version information.
  - a. In the **Parameters** tab, set the parameters in the **cXML Configuration** section to match your SAP Business Network Buyer account configuration.
  - b. Update the **cXML version** parameter to the 1.2.025 version.
  - c. Save and activate the changes.

## Installing the Transports for SAP RFQ and Award Integration

For SAP RFQ and award integration, you must install transports for SAP NetWeaver provided by SAP Ariba.

### Procedure

1. Download the `AribaNetworkAdapterSAPNetweaver_VCI_version.zip` from <http://connect.ariba.com>, where version is a software version. Set **Product Line** to Ariba Network Adapter for SAP NetWeaver.
2. Open the transports folder and view the `ReadMe.txt` file for information about installing the transports.

The `ReadMe.txt` file typically contains a lists of transports available for installation, and may include instructions about the order in which transports must be installed.
3. Import `AribaNetworkAdapterSAPNetweaver_Design.tpz` file into your SAP NetWeaver Process Integration system.

## Installing SAP ERP Enhancements for QuoteRequest Functionality

Enhancements to the functions modules specific to SAP Ariba must be configured in the SAP ERP to enable QuoteRequest document functionality .

### Procedure

1. Sign into SAP ERP.
2. Navigate to the Object Navigator using transaction **SE80**.
3. Click **Repository Information System** in the left pane.
4. Select the **Program Library** option in the **Objects** section in the left pane.
5. Double-click **Includes**.

6. Enter the value **ZXM06U02** in the **Include name** field.
7. Click **F8** or **Execute**.
8. Double-click the **Include** filename in the results list to the right.
9. Click **Display > Change** to put the **Include** file in change mode.

If prompted, enter your developer access key.

10. Copy the following code into the top of the **Include** file just below the comments section:

```
CALL FUNCTION '/ARBA/RFQ_GET_DETAILS'
EXPORTING
  ekko = xekko
  lfal = xlfal
  object = dobject
TABLES
  int_edidd = int_edidd
  Int_ekpo = xekpo.
```

11. Click **Save**.
12. Click **Activate**.

## Installing SAP ERP Enhancements for RFQ Cancellation Functionality

Enhancements to the function modules specific to SAP Ariba must be configured in the SAP ERP to enable the RFQ cancellation features. If you are an existing customer using SAP Ariba cloud integration release 9.0 and earlier, you no longer require enhancement **LEINMF0Q** for the request for quotation cancellation.

### Procedure

1. Sign into SAP ERP.
2. Navigate to the Object Navigator using transaction **SE80**.
3. Click **Repository Information System** in the left pane.
4. Select the **Program Library** option in the **Objects** section in the left pane.
5. Double-click **Includes**.
6. Enter the value **LEINMF0Q** in the **Include name** field.
7. Click **F8** or **Execute**.
8. Click **Display <> Change** to put the **Include** file in change mode.

If prompted, enter your developer access key.

9. Navigate to **Edit > Enhancement Operations > Show Implicit Enhancement Options**.
10. Click **Enhance**.
11. Click **Create**.
12. Insert the following code into very beginning of the **lesen\_beleg** subroutine:

```
DATA: lv_bstyp TYPE bstyp.
```

```


SELECT single bstyp      FROM ekko
      INTO lv_bstyp
      WHERE ebeln EQ h_ebeln.
IF SY-SUBRC = 0.
CALL FUNCTION  '/ARBA/TRIGGER_DELETE_RFQ_IDOC'
  EXPORTING
    iv_ebeln = h_ebeln
    iv_bstyp = lv_bstyp
  IMPORTING
    ev_druvo = xdruvo.
ENDIF.

```










13. Click **Save**.

14. Click **Activate Enhancements**.

## Required and Recommended SAP Support Notes for SAP RFQ and Award Integration

To avoid the following error message from SAP standard BAPI when you route outline agreements to SAP ERP, implement SAP Note [2208145](#) .

SAP Error: : ME 816: CL\_API\_MASTER\_CONDITION\_MM=>PROCESS

SAP Ariba also recommends that you implement the following related SAP Notes: [2078079](#) , [2079795](#) , [2080279](#) , [2122482](#) , [2135831](#) , [2150747](#) , [2160353](#) , [2162692](#) , and [2203658](#) .

## Configuring Implicit Enhancements for New Purchase Orders for SAP RFQ and Award Integration

This topic applies to SAP RFQ and award integration with SAP Ariba Sourcing.

### Context

To enable SAP ERP to send information on new purchase orders, service purchase orders, or statuses for service sheets created against new purchase orders to the SAP Business Network, you must configure this implicit enhancement in SAP ERP.

### Procedure

1. In SAP ERP, navigate to the transaction code SE37 - IDOC\_OUTPUT\_ORDERS and click **Display**.
2. Search for Perform `fill_srv_orders`.
3. Double-click **Perform**.

4. Select **SAPLEINM** from the dialog box.
5. Click **Enhance** in the application toolbar.
6. Click **Edit > Enhancement Operations > Show Implicit Enhancement Options** to display a line after the `fill_srv_orders` form.
7. Right-click the line and select **Enhancement Implementation > Create**.
8. Click **Code** on the **Choose Type of Enhancement** dialog box to display **Select or Create Enhancement Implementation**.
9. Click **Create Enhancement Implementation**.
10. Enter a name and description for the enhancement and press **Enter**.
11. In the package dialog box, specify your Z or Y package, press **Enter**, and save the package to a transport request.
12. Copy the following code:

```
DATA:
  l_flag(5)          TYPE c,
  cl_purchaseorder   TYPE REF TO /arba/cl_purchaseorder,
  cl_po_hierarchy    TYPE REF TO /arba/cl_po_hierarchy,
  ls_idoc_status     TYPE bdidocstat,
  lx_appl_idoc       TYPE REF TO /arba/cx_appl_idoc.
CONSTANTS:
  c_true TYPE char4 VALUE 'true',
  c_false(5) TYPE c VALUE 'false'.
CREATE OBJECT cl_purchaseorder.
CREATE OBJECT cl_po_hierarchy.
TRY.
  CREATE OBJECT cl_po_hierarchy.
  CALL METHOD cl_po_hierarchy->get_systemversion_ishierarchy
    EXPORTING
      ebeln      = ekpo-ebeln
      et_edl_esll = edi_esll[]
  IMPORTING
    flag        = l_flag
  CHANGING
    int_edidd    = int_edidd[].
  CATCH /arba/cx_appl_idoc INTO lx_appl_idoc.
    MESSAGE e151(/arba/message)
      RAISING error_message_received.
  RETURN.
ENDTRY.
IF l_flag EQ c_true.
  CALL METHOD cl_purchaseorder->fill_service_line_number
    EXPORTING
      packno      = ekpo-packno
  IMPORTING
    et_edl_esll   = edi_esll[].
ENDIF.
```

13. Paste the copied code into the **Enhancement Implementation**.
14. Activate the enhancement and save it.
15. Right-click below the last line in the `fill_srv_orders` form and select **Enhancement Implementation > Create**.
16. Click **Code** on the **Choose Type of Enhancement** dialog box to display **Select or Create Enhancement Implementation**.
17. Select the enhancement created and named in Step 10.

18. Copy and paste the following code:

```
IF l_flag EQ c_true.
    CALL METHOD cl_purchaseorder->create_parent_child_relation
        EXPORTING
            edi_esll      = edi_esll[]
            spras = ekko-spras
        CHANGING
            int_edidd      = int_edidd[] .
ENDIF.
```

19. Activate the enhancement and save it.

## Implementing Enhancements for Service Sheets Created for Changed or Canceled Purchase Orders

### Context

To send statuses for service sheets created against purchase orders that have been changed or canceled to SAP Business Network, you must implement the following enhancement.

### Procedure

1. Go to transaction SE38.
2. Enter the program name, LEINMFOQ and click **Display**.
3. Choose the **SAPLEINM** program in the **Choose Main Program for LEINMFOQ** page and click **Choose**.

The **ABAP Editor:Display Include LEINMFOQ** page appears.

4. Click the **Enhance** button on the application toolbar.
5. On the **Edit** menu, click **Enhancement Operations** and then click **Show Implicit Enhancement Options**.
6. Right-click on the line below the text `FORM lesen_beleg:`, click **Enhancement Implementation** and then click **Create**.
7. Click **Code** on the **Choose Enhancement Mode** page.

The **Select or Create Enhancement Implementation** page appears.

8. Click the **Create enhancement implementation** button.

The **Create Enhancement Implementation** page appears.

9. If you already have a custom enhancement, you can use the same custom enhancement. Or you can create a new enhancement implementation. Enter a name and description. For example, `zcanceled_po`.
10. Press **Enter**. The **Package** page appears.
11. Specify the `z` or `y` package and press **Enter** to save it to a transport request.
12. Copy and paste the following code in the **Enhancement Implementation for the Class** for the Change or Cancel interface:

### Source Code

```
DATA: cl_PO_ChangeCancel TYPE REF TO /arba/cl_PO_ChangeCancel.  
CREATE OBJECT cl_PO_ChangeCancel.  
CALL METHOD cl_PO_ChangeCancel->trigger_delete_po_idoc  
EXPORTING  
    ebeln = h_ebeln  
CHANGING  
    xdruvo = xdruvo.
```

13. Activate the code.

## Maintaining the Parameter for Confirmation Messages to SAP Ariba Sourcing

### Context

Buyers need to maintain this parameter to send confirmation message to SAP Ariba Sourcing. Ariba Network adapter for SAP NetWeaver sends a confirmation message after creating the purchase order, framework order, or contract on the SAP ERP system.

### Procedure

1. Run the Transaction code SM30.
2. Go to /ARBA/PARAM\_TAB table. Click **Maintain**.
3. Click **New Entries**.
4. Maintain the following values:

- **Variable Name:** QUOTE  
**Field Name:** SEND\_RESPONSE  
**Number:** 0

In the section Ariba table to store configurable parameter, maintain the following values:

**INCL/EXCL:** I

**Option:** EQ

**Selection value:** X (to send confirmation messages to SAP Ariba Sourcing)

**Selection value:** Leave it blank.

# Configuring SAP NetWeaver PI Value Mappings for SAP RFQ and Award Integration with SAP Ariba Sourcing

If you are using the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing feature, you must map SAP NetWeaver PI source and target values to support `QuoteRequest` messages. Skip this step if you are not using the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing feature.

Configure SAP NetWeaver PI value mappings as indicated in the following table:

Source Value	Target Value	Group Name	Notes
XI	AN	BPMConfig	
XI_Global	StrategicSourcingDocType	BPMConfig	Key value that identifies a <code>QuoteRequest</code> as a strategic sourcing doc.

## About Pricing Conditions in SAP RFQ and Award Integration with SAP Ariba Sourcing

When you integrate `QuoteMessage` and `ContractRequest` cXML documents with pricing conditions as purchase orders and outline agreements between SAP Ariba Sourcing or SAP Ariba Contracts and SAP ERP through SAP Integration Suite, managed gateway for spend management and SAP Business Network, you can use one of the following options:

- Pricing conditions as standard fields by using the intrinsic element `PricingConditions`. This enables seamless integration of pricing conditions.
- Pricing conditions as external fields by using the extrinsic element `AdvancedPriceConditions`. This requires modifications in the mapping file to support the extrinsic element.

The cXML documents sent from SAP Ariba Strategic Sourcing solutions to SAP ERP through SAP Ariba Cloud Integration Gateway supports the use of pricing conditions for item terms of Money, Single line, Single line limited, Whole number, Extended Price, Decimal Number, Quantity, and Percentage answer types within an extrinsic or an intrinsic element. You must ensure to implement the necessary mappings to support integration of pricing conditions for item terms of decimal, quantity, and percentage answer types.

### Note

If the sourcing event contains Discount Percentage and Surcharge Percentage item terms, ensure to use custom mappings for these terms in SAP Ariba Cloud Integration Gateway.

You can also create PIRs in SAP ERP based on the award information from SAP Ariba Strategic Sourcing Suite. PIRs now support the use of pricing conditions for item terms such as Surcharge Percentage and Discount Percentage.

For more information about using pricing conditions, see [RFPs with pricing conditions](#) in [Event Management Guide](#).



# Pricing Conditions as an Intrinsic Element

You can use pricing conditions for cost terms as standard fields in outline agreements by using the `PricingConditions` intrinsic element in the `QuoteMessage` and `ContractRequest` cXML documents. The `PricingConditions` intrinsic element enables the buyers to seamlessly integrate documents with pricing conditions between SAP Ariba Sourcing or SAP Ariba Contracts and SAP ERP through SAP Integration Suite, managed gateway for spend management and SAP Business Network.

The `PricingConditions` element supports cost terms such as Price, Surcharge, Discount and other terms of type Money. Cost terms with volume scales and cost terms without volume scales can be defined within the `PricingConditions` element.

## ⓘ Note

Pricing conditions such as validity periods and volume scales are supported only for material items in SAP Ariba Sourcing and SAP Ariba Contracts.

## Prerequisites

To use the `PricingConditions` element:

- Ensure that your site is configured to use SAP Integration Suite, managed gateway for spend management and SAP Business Network to integrate with SAP ERP.
- Ensure that your administrator enables the site configuration parameter,

`Application.ACM.EnablePricingConditionsAsIntrinsic` in Ariba Administrator under ► **Intelligent Configuration Manager** ► **Manage Configurations** ▾. For more information, see [Enable pricing conditions as standard fields in outline agreements](#) in [Intelligent Configuration Manager parameters reference guide](#).

## ⓘ Note

Alternatively, you can have your Designated Support Contact (DSC) submit a Service Request (SR). An SAP Ariba Support representative will follow up to complete the request.

- Ensure that the following existing parameters are enabled:
  - `Application.Integration.ExternalSystem.EnableSendDraftQuotes`
  - `Application.AQS.ERPIntegration.Enabled`Contact SAP Ariba Support to set these options for you.

## Restrictions

SAP Ariba Sourcing and SAP Ariba Contracts do not support service line items in outline agreements.

# Configuring the Integration to Use Pricing Conditions as an Intrinsic Element

The `PricingConditions` element is added within the `UnitPrice` element to include pricing conditions for a line item in the `QuoteMessage` and `ContractRequest` cXML documents.

A line item can include cost terms with the pricing conditions enabled or disabled. If a line item consists of cost terms with the pricing conditions enabled, then the respective cost terms are defined within the `PricingConditions` element of the `UnitPrice` element. If a line item consists of cost terms with the pricing conditions disabled, then the respective cost terms are defined within the `Modifications` element of the `UnitPrice` element. Cost terms such as Discount, Discount Percentage, Surcharge, and Surcharge Percentage can be included within the `Modifications` element. For more information, see [cXML Code Samples with PricingConditions Intrinsic Element \[page 26\]](#).

## cXML Code Samples with PricingConditions Intrinsic Element

The following cXML excerpt shows the usage of Price and Discount cost terms without the volume scale defined in the `PricingConditions` element:

```
<UnitPrice>
  <PricingConditions>
    <ValidityPeriods>
      <!--Period Q1-->
      <ValidityPeriod from='2019-01-01' to='2019-03-31'>
        <ConditionTypes>
          <!--Price for Q1-->
          <ConditionType name='Price'>
            <CostTermValue >
              <Money currency="USD">120</Money>
            </CostTermValue>
          </ConditionType>
          <!--Discount for Q1-->
          <ConditionType name='Discount'>
            <CostTermValue >
              <Money currency="USD">120</Money>
            </CostTermValue>
          </ConditionType>
        </ConditionTypes>
      </ValidityPeriod>
      <!--Period Q2-->
      <ValidityPeriod from='2019-04-01' to='2019-06-30'>
        <ConditionTypes>
          <!--Price for Q2-->
          <ConditionType name='Price'>
            <CostTermValue >
              <Money currency="USD">130</Money>
            </CostTermValue>
          </ConditionType>
          <!--Discount for Q2-->
          <ConditionType name='Discount'>
            <CostTermValue >
              <Money currency="USD">3</Money>
            </CostTermValue>
          </ConditionType>
        </ConditionTypes>
      </ValidityPeriod>
    </ValidityPeriods>
  </PricingConditions>
</UnitPrice>
```

```

</ValidityPeriods>
</PricingConditions>
</UnitPrice>

```

The following cXML excerpt shows the usage of Price and Discount cost terms with the volume scale defined in the PricingConditions element:

```

<UnitPrice>
<PricingConditions>
<ValidityPeriods>
<!--Period Q1-->
  <ValidityPeriod from='2019-01-01' to='2019-03-30'>
    <ConditionTypes>
      <!--Price for Q1-->
      <ConditionType name='Price'>
        <CostTermValue >
          <Money currency='USD'>120</Money>
        </CostTermValue>
        <Scales scaleType='From'>
          <Scale from ='0'>
            <CostTermValue>
              <Money currency='USD'>120</Money>
            </CostTermValue>
          </Scale>
          <Scale from ='100'>
            <CostTermValue>
              <Money currency='USD'>110</Money>
            </CostTermValue>
          </Scale>
          <Scale from ='500'>
            <CostTermValue>
              <Money currency='USD'>100</Money>
            </CostTermValue>
          </Scale>
        </Scales>
      </ConditionType>
      <!--Discount for Q1-->
      <ConditionType name='Discount'>
        <CostTermValue >
          <Money currency='USD'>-5</Money>
        </CostTermValue>
        <Scales scaleType='From'>
          <Scale from ='0'>
            <CostTermValue>
              <Money currency='USD'>-20</Money>
            </CostTermValue>
          </Scale>
          <Scale from ='100'>
            <CostTermValue>
              <Money currency='USD'>-15</Money>
            </CostTermValue>
          </Scale>
          <Scale from ='500'>
            <CostTermValue>
              <Money currency='USD'>-10</Money>
            </CostTermValue>
          </Scale>
        </Scales>
      </ConditionType>
    </ConditionTypes>
  </ValidityPeriod>
  <!--Period Q2-->
  <ValidityPeriod from='2019-04-01' to='2019-06-30'>
    <ConditionTypes>
      <!--Price for Q2-->
      <ConditionType name='Price'>
        <CostTermValue >

```

```

        <Money currency="USD">125</Money>
      </CostTermValue>
      <Scales scaleType="From">
        <Scale from ='0'>
          <CostTermValue>
            <Money currency='USD'>125</Money>
          </CostTermValue>
        </Scale>
        <Scale from ='100'>
          <CostTermValue>
            <Money currency='USD'>115</Money>
          </CostTermValue>
        </Scale>
        <Scale from ='500'>
          <CostTermValue>
            <Money currency='USD'>105</Money>
          </CostTermValue>
        </Scale>
      </Scales>
    </ConditionType>
    <!--Discount for Q2-->
    <ConditionType name='Discount'>
      <CostTermValue >
        <Money currency='USD'>5</Money>
      </CostTermValue>
      <Scales scaleType="From">
        <Scale from ='0'>
          <CostTermValue>
            <Money currency='USD'>-10</Money>
          </CostTermValue>
        </Scale>
        <Scale from ='100'>
          <CostTermValue>
            <Money currency='USD'>-5</Money>
          </CostTermValue>
        </Scale>
        <Scale from ='500'>
          <CostTermValue>
            <Money currency='USD'>-15</Money>
          </CostTermValue>
        </Scale>
      </Scales>
    </ConditionType>
  </ConditionTypes>
</ValidityPeriod>
</ValidityPeriods>
</PricingConditions>
</UnitPrice>

```

The following cXML excerpt shows the usage of Discount and Surcharge cost terms defined within the Modifications element, when pricing conditions are disabled for the line item:

```

<UnitPrice>
  <Money currency="GBP">0.00</Money>
  <Modifications>
    <!-- This is for discount -->
    <Modification>
      <AdditionalDeduction type="DISCOUNT">
        <DeductionAmount><Money currency="GBP">0</Money></DeductionAmount>
      </AdditionalDeduction>
    </Modification>
    <!-- This is for discount percentage -->
    <Modification>
      <AdditionalDeduction type="DISCOUNT">
        <DeductionPercent percent="0"/>
      </AdditionalDeduction>
    </Modification>
  </Modifications>

```

```

<!-- This is for surcharge -->
<Modification>
  <AdditionalCost>
    <Money currency="USD">50.0</Money>
  </AdditionalCost>
</Modification>
<!-- This is for surcharge percentage -->
<Modification>
  <AdditionalCost>
    <Percentage percent="0" />
  </AdditionalCost>
</Modification>
</Modifications>
</UnitPrice>

```

The following cXML excerpt shows the Price, Extended Price, Discount, Surcharge, Discount Percentage, and Surcharge Percentage item terms defined in the PricingConditions intrinsic element:

```

<UnitPrice>
  <Money currency="USD">32.00</Money>
  <PricingConditions>
    <ValidityPeriods>
      <ValidityPeriod to="2020-10-31" from="2020-10-01">
        <ConditionTypes>
          <ConditionType name="PRICE">
            <CostTermValue>
              <Money currency="USD">32.00</Money>
            </CostTermValue>
            <Scales scaleBasis="quantity" scaleType="To">
              <Scale to="10">
                <CostTermValue>
                  <Money currency="USD">32.00</Money>
                </CostTermValue>
              </Scale>
              <Scale to="20">
                <CostTermValue>
                  <Money currency="USD">32.00</Money>
                </CostTermValue>
              </Scale>
            </Scales>
          </ConditionType>
          <ConditionType name="EXTENDEDPRICE">
            <CostTermValue>
              <Money currency="USD"></Money>
            </CostTermValue>
            <Scales scaleBasis="quantity" scaleType="To">
              <Scale to="10">
                <CostTermValue>
                  <Money currency="USD"></Money>
                </CostTermValue>
              </Scale>
              <Scale to="20">
                <CostTermValue>
                  <Money currency="USD"></Money>
                </CostTermValue>
              </Scale>
            </Scales>
          </ConditionType>
          <ConditionType name="DISCOUNT">
            <CostTermValue>
              <Money currency="USD">43.00</Money>
            </CostTermValue>
            <Scales scaleBasis="quantity" scaleType="To">
              <Scale to="10">
                <CostTermValue>
                  <Money currency="USD">43.00</Money>
                </CostTermValue>
              </Scale>
            </Scales>
          </ConditionType>
        </ConditionTypes>
      </ValidityPeriod>
    </ValidityPeriods>
  </PricingConditions>
</UnitPrice>

```

```

        </Scale>
        <Scale to="20">
            <CostTermValue>
                <Money currency="USD">43.00</Money>
            </CostTermValue>
        </Scale>
    </Scales>
</ConditionType>
<ConditionType name="DISCOUNTPCT">
    <CostTermValue>
        <Percentage percent="43.00"/>
    </CostTermValue>
    <Scales scaleBasis="quantity" scaleType="To">
        <Scale to="10">
            <CostTermValue>
                <Percentage percent="43.00"/>
            </CostTermValue>
        </Scale>
        <Scale to="20">
            <CostTermValue>
                <Percentage percent="43.00"/>
            </CostTermValue>
        </Scale>
    </Scales>
</ConditionType>
<ConditionType name="SURCHARGE">
    <CostTermValue>
        <Money currency="USD">43.00</Money>
    </CostTermValue>
    <Scales scaleBasis="quantity" scaleType="To">
        <Scale to="10">
            <CostTermValue>
                <Money currency="USD">43.00</Money>
            </CostTermValue>
        </Scale>
        <Scale to="20">
            <CostTermValue>
                <Money currency="USD">43.00</Money>
            </CostTermValue>
        </Scale>
    </Scales>
</ConditionType>
<ConditionType name="SURCHARGEPECT">
    <CostTermValue>
        <Percentage percent="43.00"/>
    </CostTermValue>
    <Scales scaleBasis="quantity" scaleType="To">
        <Scale to="10">
            <CostTermValue>
                <Percentage percent="43.00"/>
            </CostTermValue>
        </Scale>
        <Scale to="20">
            <CostTermValue>
                <Percentage percent="43.00"/>
            </CostTermValue>
        </Scale>
    </Scales>
</ConditionType>
</ConditionTypes>
</ValidityPeriod>
<ValidityPeriod to="2020-11-30" from="2020-11-01">
    <ConditionTypes>
        <ConditionType name="PRICE">
            <CostTermValue>
                <Money currency="USD">32.00</Money>
            </CostTermValue>
            <Scales scaleBasis="quantity" scaleType="To">

```

```


        <Scale to="10">
            <CostTermValue>
                <Money currency="USD">32.00</Money>
            </CostTermValue>
        </Scale>
        <Scale to="20">
            <CostTermValue>
                <Money currency="USD">32.00</Money>
            </CostTermValue>
        </Scale>
    </Scales>
</ConditionType>
<ConditionType name="EXTENDEDPRICE">
    <CostTermValue>
        <Money currency="USD"></Money>
    </CostTermValue>
    <Scales scaleBasis="quantity" scaleType="To">
        <Scale to="10">
            <CostTermValue>
                <Money currency="USD"></Money>
            </CostTermValue>
        </Scale>
        <Scale to="20">
            <CostTermValue>
                <Money currency="USD"></Money>
            </CostTermValue>
        </Scale>
    </Scales>
</ConditionType>
<ConditionType name="DISCOUNT">
    <CostTermValue>
        <Money currency="USD">43.00</Money>
    </CostTermValue>
    <Scales scaleBasis="quantity" scaleType="To">
        <Scale to="10">
            <CostTermValue>
                <Money currency="USD">43.00</Money>
            </CostTermValue>
        </Scale>
        <Scale to="20">
            <CostTermValue>
                <Money currency="USD">43.00</Money>
            </CostTermValue>
        </Scale>
    </Scales>
</ConditionType>
<ConditionType name="DISCOUNTPCT">
    <CostTermValue>
        <Percentage percent="43.00"/>
    </CostTermValue>
    <Scales scaleBasis="quantity" scaleType="To">
        <Scale to="10">
            <CostTermValue>
                <Percentage percent="43.00"/>
            </CostTermValue>
        </Scale>
        <Scale to="20">
            <CostTermValue>
                <Percentage percent="43.00"/>
            </CostTermValue>
        </Scale>
    </Scales>
</ConditionType>
<ConditionType name="SURCHARGE">
    <CostTermValue>
        <Money currency="USD">43.00</Money>
    </CostTermValue>
    <Scales scaleBasis="quantity" scaleType="To">

```

```

        <Scale to="10">
            <CostTermValue>
                <Money currency="USD">43.00</Money>
            </CostTermValue>
        </Scale>
        <Scale to="20">
            <CostTermValue>
                <Money currency="USD">43.00</Money>
            </CostTermValue>
        </Scale>
    </Scales>
</ConditionType>
<ConditionType name="SURCHARGEPECT">
    <CostTermValue>
        <Percentage percent="43.00" />
    </CostTermValue>
    <Scales scaleBasis="quantity" scaleType="To">
        <Scale to="10">
            <CostTermValue>
                <Percentage percent="43.00" />
            </CostTermValue>
        </Scale>
        <Scale to="20">
            <CostTermValue>
                <Percentage percent="43.00" />
            </CostTermValue>
        </Scale>
    </Scales>
</ConditionType>
</ConditionTypes>
</ValidityPeriod>
</ValidityPeriods>
</PricingConditions>
</UnitPrice>

```

For more information about the cXML changes, see [cXML Reference Guide](#) .

## Pricing Conditions as an Extrinsic Element

You can use pricing conditions for cost terms as external fields in outline agreements by using the `AdvancedPriceConditions` extrinsic element in the `QuoteMessage` and `ContractRequest` cXML documents. The `AdvancedPriceConditions` extrinsic element enables the buyers to integrate documents with pricing conditions between SAP Ariba Sourcing or SAP Ariba Contracts and SAP ERP through SAP Ariba Cloud Integration Gateway. Buyers must customize the mappings to support integration of pricing conditions.

## Configuring the Integration to Use Pricing Conditions as an Extrinsic Element

Pricing condition received from are mapped to the following conditions by default in SAP PI:



Table 1: Default Pricing Condition Mappings

<b>SAP Ariba</b>		
<b>Condition Name (From QuoteMessageXML)</b>	<b>Price Condition Description</b>	<b>Mapped Pricing Condition in SAP PI</b>
DISCOUNTPCT	Discount Percentage	RA00
SURCHARGEAMT	Surcharge Amount	ZB00
DISCOUNTAMT	Discount Amount	RB00
SURCHARGEPECT	Surcharge Percentage	ZA00

Price condition mappings between SAP Ariba Sourcing and SAP ERP pricing condition types (with the associated calculation schema assigned for PO creation) are maintained in the /ARBA/PRC\_CD\_MAP table. Price condition mappings can be customized. During the creation of a PO, the SAP ERP pricing condition are picked up based on the calculation schema. For example, the following table illustrates how pricing conditions received from SAP Ariba might be mapped to SAP ERP pricing condition types for calculation schema RM0000:

Table 2: Maintained Mapping of SAP Ariba Pricing Conditions to SAP ERP Pricing Conditions

<b>SAP Ariba</b>		
<b>Procedure</b>	<b>Pricing Condition</b>	<b>SAP ERP Pricing Condition Type</b>
RM0000	RA00	RA00
RM0000	RB00	RC00
RM0000	ZA00	ZA00
RM0000	ZB00	ZC00

Using the same example, if the pricing conditions are not maintained for calculation schema RM0000, the mapping would be as follows:

Table 3: Unmaintained Mapping of SAP Ariba Pricing Conditions to SAP ERP Pricing Conditions

<b>SAP Ariba</b>		
<b>Procedure</b>	<b>Pricing Condition</b>	<b>SAP ERP Pricing Condition Type</b>
	RA00	RA00
	RB00	RB00
	ZA00	ZA00
	ZB00	ZB00

A calculation schema should provide at least one condition of type Gross Price. For example, here is a screen shot of a calculation schema for table "Maintained Mapping of SAP Ariba Sourcing Pricing Conditions to SAP ERP Pricing Conditions":

**Change View "Control data": Overview**

Procedure: KR0001 Purchasing Document (Big)

Control data

Step	Co...	CType	Description	Fr...	To...	Ma...	R...	St...	P	SuTot	Reqt	CalTy...	BasT...	Acc...	Accr...
1	0	PBXX	Gross Price			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	9	6				
10	0	RA00	Discount % on Net			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X						
11	0	ZA00	Surcharge % on Net			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X						
14	0	RC00	Discount/Quantity			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X						
15	0	ZC00	Surcharge/Quantity			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X						
20	0		Net incl. disc.			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	7					

## Methods for Customizing Pricing Condition Data for SAP RFQ and Award Integration with SAP Ariba Sourcing

The SAP BADl, has an interface /ARBA/IF\_EX\_QUOTEMESSAGE, that provides two different methods to permit the customization of pricing condition data:

- For POs: /ARBA/UPDATE\_CONDITIONS
- For contracts: /ARBA/CONTRACT\_MODIFY\_CONDITION

## cXML Code Sample with AdvancedPriceConditions Extrinsic Element

The following cXML excerpt shows the Price, Extended Price, Discount Amount, Surcharge Amount, Discount Percentage, Surcharge Percentage, Custom Quantity, and Custom Decimal item terms defined in the AdvancedPriceConditions extrinsic element:

```
<Extrinsic name="AdvancedPriceConditions">
  <ValidityPeriods>
    <ValidityPeriod>
      <StartDate>9/1/2020</StartDate>
      <EndDate>9/30/2020</EndDate>
      <Scales>
        <Scale from="0" to="10">
          <Term name="Price" value="0.21" currency="USD" />
          <Term name="Extended Price" value="2.10" currency="USD" />
          <Term name="Discount Amount" value="32.00" currency="USD" />
          <Term name="Surcharge Amount" value="23.00" currency="USD" />
          <Term name="Custom Decimal" value="54.555" />
          <Term name="Discount Percentage" value="54.33" />
        </Scale>
      </Scales>
    </ValidityPeriod>
  </ValidityPeriods>
</Extrinsic>
```

```

        <Term name="Surcharge Percentage" value="54.22" />
        <Term name="Custom Quantity" value="54.220" UnitOfMeasure="10" />
    </Scale>
    <Scale from="0" to="20">
        <Term name="Price" value="0.21" currency="USD" />
        <Term name="Extended Price" value="4.20" currency="USD" />
        <Term name="Discount Amount" value="32.00" currency="USD" />
        <Term name="Surcharge Amount" value="23.00" currency="USD" />
        <Term name="Custom Decimal" value="54.555" />
        <Term name="Discount Percentage" value="54.33" />
        <Term name="Surcharge Percentage" value="54.22" />
        <Term name="Custom Quantity" value="54.220" UnitOfMeasure="10" />
    </Scale>
</Scales>
</ValidityPeriod>
<ValidityPeriod>
    <StartDate>10/1/2020</StartDate>
    <EndDate>10/31/2020</EndDate>
    <Scales>
        <Scale from="0" to="10">
            <Term name="Price" value="0.21" currency="USD" />
            <Term name="Extended Price" value="2.10" currency="USD" />
            <Term name="Discount Amount" value="32.00" currency="USD" />
            <Term name="Surcharge Amount" value="23.00" currency="USD" />
            <Term name="Custom Decimal" value="54.555" />
            <Term name="Discount Percentage" value="54.33" />
            <Term name="Surcharge Percentage" value="54.22" />
            <Term name="Custom Quantity" value="54.220" UnitOfMeasure="10" />
        </Scale>
        <Scale from="0" to="20">
            <Term name="Price" value="0.21" currency="USD" />
            <Term name="Extended Price" value="4.20" currency="USD" />
            <Term name="Discount Amount" value="32.00" currency="USD" />
            <Term name="Surcharge Amount" value="23.00" currency="USD" />
            <Term name="Custom Decimal" value="54.555" />
            <Term name="Discount Percentage" value="54.33" />
            <Term name="Surcharge Percentage" value="54.22" />
            <Term name="Custom Quantity" value="54.220" UnitOfMeasure="10" />
        </Scale>
    </Scales>
</ValidityPeriod>
</ValidityPeriods>
</Extrinsic>

```

## QuoteRequest Integration Scenario

The QuoteRequest integration scenario is used only for the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing feature. Skip these steps if you are not using the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing feature.

Complete the steps in the following topics to configure and activate the integration scenario:

1. [Transferring the Integration Scenario \(QuoteRequest\) \[page 36\]](#)
2. [Topics About Configuring the Integration Scenario \(QuoteRequest\) \[page 37\]](#)
  1. [Selecting the Model \(QuoteRequest\) \[page 37\]](#)
  2. [Assigning Components to the Integration Scenario \(QuoteRequest\) \[page 38\]](#)
  3. [Configuring Connections in the Integration Scenario \(QuoteRequest\) \[page 39\]](#)
  4. [Generating Objects for the Integration Scenario \(QuoteRequest\) \[page 40\]](#)

3. [Configuring the Communication Channel \(QuoteRequest\) \[page 40\]](#)
4. [Configuring the Interface Determination Settings \(QuoteRequest\) \[page 41\]](#)
5. [Activating the Integration Scenario \(QuoteRequest\) \[page 41\]](#)

## Transferring the Integration Scenario (QuoteRequest)

The QuoteRequest integration scenario is used only for the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing feature. Skip these steps if you are not using the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing feature.

### Context

Integration scenarios are installed in the SAP Integration Repository when you install the designs with the transports. You transfer the appropriate integration scenario from the Integration Repository to the Integration Directory and use it as a template for configuring the corresponding transactions.

### Procedure

1. From the SAP NetWeaver PI main page, select **Integration Directory** > **Integration Builder**, and then sign in to the Configuration: Integration Builder application.
2. In the Integration Builder menu, select **Tools** > **Apply Model from ES Repository**.
3. In the first screen of the Transfer Model from ES Repository wizard, **Select Process Integration Scenario**, click the **Name** field, then click the Display Input Help drop down list and select **Input Help**. Select the following Process Integration Scenario from the Enterprise Services Repository screen:
  - Name: AR\_QuoteRequest\_Receive
  - Namespace: `http://ariba.com/xi/ASN/QuoteRequest`
  - Software Component Version: ARIBA\_SUPPLIER\_CONN\_ADAPTER, CI5 of ariba.com
4. Click **Continue**.
5. If required, change the name of the scenario for the Integration Directory
6. Click **Finish**.

### Results

Once the transfer is completed, the Model Configurator window appears.

# Topics About Configuring the Integration Scenario (QuoteRequest)

The QuoteRequest integration scenario is used only for the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing feature. Skip these steps if you are not using the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing feature.

After the integration scenario is selected, you must configure it. Configuring is a four-step process.

Integration scenario configuration includes:

1. [Selecting the Model \(QuoteRequest\) \[page 37\]](#)
2. [Assigning Components to the Integration Scenario \(QuoteRequest\) \[page 38\]](#)
3. [Configuring Connections in the Integration Scenario \(QuoteRequest\) \[page 39\]](#)
4. [Generating Objects for the Integration Scenario \(QuoteRequest\) \[page 40\]](#)

## Selecting the Model (QuoteRequest)

The QuoteRequest integration scenario is used only for the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing feature. Skip these steps if you are not using the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing feature.

### Context

The first integration scenario configuration step is to select a model.

### Procedure

1. Click **Select Component View** in the Model Configurator.
2. Click **Apply** to select the unique model that is selected by default.

### Next Steps

Assign components to the application components of the selected integration scenario.

# Assigning Components to the Integration Scenario (QuoteRequest)

The QuoteRequest integration scenario is used only for the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing feature. Skip these steps if you are not using the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing feature.

## Context

The second integration scenario configuration step is to assign components.

## Procedure

1. In the Model Configurator, click the Assign Component button.
2. In the Assign Components window, select the **Business System Components for A2A** tab to assign components for SAP Business Network.
3. Click on the Insert Line button ('+') to add a component entry in the table if no component entry line is present.
4. Click on the row under the **Communication Component** column, then click on the Value List drop down and select **Value List <F4**. Select the communication component name **BS\_SAPR3\_50**, from the selection list and click **Apply**.

### Note

For Multi ERP implementation, add the multiple communication components defined for multiple SAP ERP systems by repeating the steps 3 and 4.

5. Click the Next Role button (the right arrow) to go to the next screen in the window.
6. Click the Insert Line button ('+') to add a component entry in the table if no component entry line is present.
7. Click on the row under the **Communication Component** column, then click on the Value List drop down and select **Value List <F4**. Select the communication component name **BS\_ASN**, from the selection list and click **Apply**.
8. Click the Save Settings button to save the changes.

# Configuring Connections in the Integration Scenario (QuoteRequest)

The third integration scenario configuration step is to configure connections.

## Procedure

1. In the Model Configurator, click the **Configure Connections** button. You must assign Communication Channels to set up the connections.
2. In the **Connections from Component Assignment** tab in the Configure Connection window, click the empty **Communication Channel** cell corresponding to BS\_ASN in the **Receiver Business System Components** table.
3. Click the New Communication Channel button (the icon at the top left), and then select **Create Communication Channel with Template** to start the Create Communication Channel wizard.
4. Click **Continue**, and in the next page click the Name field, then click the Display Input Help drop down list and select **Input Help**. Select the following Communication Channel Template:
  - Name: CCT\_Quote\_cXML\_Receiver
  - Namespace: `http://ariba.com/xi/ASN/QuoteRequest`
  - Software Component Version: ARIBA\_SUPPLIER\_CONN\_ADAPTER, CI5 of ariba.com
5. Click **Continue**, modify the channel name to CC\_QuoteRequest\_cXML\_Receiver, and then click **Finish**.

### → Tip

If you have already created and configured a Receiver channel for BS\_ASN for another transaction, you can create the communication channel by copy from a channel already configured.

### 📌 Note

The communication channels for SAP ERP Sender system are not required.

6. Click the **Activate All Connections** button, and then click **OK** in the dialog box.
7. Click the Save Settings button to save the changes.

## Next Steps

Generate the objects. Generation creates the configuration objects if they do not exist. If they already exist, they are reused and enhanced, if required.

You can also simulate generation for test purposes.

## Generating Objects for the Integration Scenario (QuoteRequest)

The fourth integration scenario configuration step is to generate objects.

### Procedure

1. In the Model Configurator, click the **Create Configuration Object** button.
2. In the Create Configuration Object window, make the following settings:
  - **General: Generation** (select the radio button for this option)
  - **Scope of Generation:** Select both the active check boxes – **Receiver Determination**, and **Interface Determination**.
3. Select the **Create New** radio button under **Change List for Generated Objects** and use the proposed name or modify it.
4. Click on **Start** to begin generating objects.
5. When object generation is complete, click **Apply** to save the new configuration settings.

A log file is created by this operation. You can close the log file without saving it, or you can optionally save it if required for your needs.

## Configuring the Communication Channel (QuoteRequest)

Configure the communication channel `CC_QuoteRequest_cXML_Receiver` under the `AR_QuoteRequest_Receive` Configuration Scenario.

### Procedure

1. Under **Communication Channel**, double-click `|BS_ASN|CC_QuoteRequest_cXML_Receiver` to open it, or right-click and select **Open**.
2. In the **Parameters** tab, set the parameters in the **Authentication** section to match your SAP Business Network Buyer account configuration.

#### Note

If you created the channel by copy from an existing channel, you need to change the request type to `QuoteRequest` in the Outbound Request Type field.

3. If required, edit the other parameters.
4. Save your changes.



# Configuring the Interface Determination Settings (QuoteRequest)

Configure the interface determination settings to enable mapping enhancements.

## Context

Configuring the Interface Determination is a mandatory step if you need to configure the mappings.

## Procedure

1. Expand **Interface Determination**, and then click **BS\_SAPR3\_50 | | REQOTE.ORDERSD05./ARBA/RFQ | | BS\_ASN**.
2. In the **Receiver Interfaces** section of the **Edit Interface Determination** window, click the operation mapping value under the **Operation Mapping** column, then click the Value List drop down and select **Value List**.
3. Select the operation mapping **IFM\_REQOTE\_ORDERSD05\_ARBA\_RFQ\_2\_cXML** and click **Apply**.
4. The Multiplicity column displays the value "0..unbounded".
5. Save the interface determination settings.

# Activating the Integration Scenario (QuoteRequest)

The final configuration step for supporting the `QuoteRequest` transaction in SAP NetWeaver PI is to activate your newly created scenario.

- From the **Change List** tab on the main application screen, activate all the Change Lists containing the objects created and modified during the component setup.

## Additional References

[Topics about Ariba Network adapter for SAP NetWeaver for SAP Business Suite Add-On in Setting up Ariba Network adapter for SAP NetWeaver.](#)

# QuoteMessage Integration Scenario

The QuoteMessage integration scenario is used for the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing and Award Integration Using Material Master Item Data features.

Complete the steps in the following topics to configure and activate the integration scenario:

1. [Transferring the Integration Scenario \(QuoteMessage\) \[page 42\]](#)
2. [Topics About Configuring the Integration Scenario \(QuoteMessage\) \[page 43\]](#)
  1. [Selecting the Model \(QuoteMessage\) \[page 43\]](#)Select Model.
  2. [Assigning Components to the Integration Scenario \(QuoteMessage\) \[page 44\]](#)Assign Components.
  3. [Configuring Connections in the Integration Scenario \(QuoteMessage\) \[page 45\]](#)Configure Connections.
  4. [Generate Configuration Objects. Generating Objects for the Integration Scenario \(QuoteMessage\) \[page 46\]](#)
3. [Configure the Communication Channels. Configuring the Communication Channel \(QuoteMessage\) \[page 47\]](#)
4. [Configuring the Interface Determination Settings \(QuoteMessage\) \[page 47\]](#)
5. [Activating the Integration Scenario \(QuoteMessage\) \[page 48\]](#)



## Transferring the Integration Scenario (QuoteMessage)

The QuoteMessage integration scenario is used for the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing and Award Integration Using Material Master Item Data features.

### Context

Integration scenarios are installed in the SAP Integration Repository when you install the designs with the transports. You transfer the appropriate integration scenario from the Integration Repository to the Integration Directory and use it as a template for configuring the corresponding transactions.

### Procedure

1. From the SAP NetWeaver PI main page, select **Integration Directory** > **Integration Builder** , and then sign in to the Configuration: Integration Builder application.
2. In the Integration Builder menu, select **Tools** > **Apply Model from ES Repository** .
3. In the first screen of the Transfer Model from ES Repository wizard, **Select Process Integration Scenario**, click the **Name** field, then click the Display Input Help drop down list and select **Input Help**. Select the following Process Integration Scenario from the Enterprise Services Repository screen:
  - Name: AR\_QuoteMessage\_Send
  - Namespace: `http://ariba.com/xi/ASN/QuoteMessage`

- Software Component Version: ARIBA\_SOURCING\_ADAPTER, CIx of ariba.com

#### → Tip

For customizations that you implement, use the software component  
ARIBA\_SOURCING\_CUSTOM\_ADAPTER 1.0 of ariba.com.

4. Click **Continue**.
5. If required, change the name of the scenario for the Integration Directory
6. Click **Finish**.

## Results

Once the transfer is completed, the Model Configurator window appears.

## Topics About Configuring the Integration Scenario (QuoteMessage)

The QuoteMessage integration scenario is used for the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing and Award Integration Using Material Master Item Data features.

After the integration scenario is selected, you must configure it. Configuring is a four-step process.

Integration scenario configuration includes the following procedures:

1. [Selecting the Model \(QuoteMessage\) \[page 43\]](#)Select Model.
2. [Assigning Components to the Integration Scenario \(QuoteMessage\) \[page 44\]](#)Assign Components.
3. [Configuring Connections in the Integration Scenario \(QuoteMessage\) \[page 45\]](#)Configure Connections.
4. Generate Configuration Objects.[Generating Objects for the Integration Scenario \(QuoteMessage\) \[page 46\]](#)

## Selecting the Model (QuoteMessage)

The QuoteMessage integration scenario is used for the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing and Award Integration Using Material Master Item Data features.

## Context

The first integration scenario configuration step is to select a model.

## Procedure

1. Click **Select Component View** in the Model Configurator.
2. Click **Apply** to select the unique model that is selected by default.

## Next Steps

Assign components to the application components of the selected integration scenario.

## Assigning Components to the Integration Scenario (QuoteMessage)

The QuoteMessage integration scenario is used for the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing and Award Integration Using Material Master Item Data features.

## Context

The second integration scenario configuration step is to assign components.

## Procedure

1. In the Model Configurator, click the Assign Component button.
2. In the Assign Components window, select the **Business System Components for A2A** tab to assign components for SAP Business Network.
3. Click on the Insert Line button ('+') to add a component entry in the table if no component entry line is present.
4. Click on the row under the **Communication Component** column, then click on the Value List drop down and select **Value List <F4**. Select the communication component name **BS\_SAPR3\_50**, from the selection list and click **Apply**.

### Note

For Multi ERP implementation, add the multiple communication components defined for multiple SAP ERP systems by repeating the steps 3 and 4.

5. Click the Next Role button (the right arrow) to go to the next screen in the window.
6. Click the Insert Line button ('+') to add a component entry in the table if no component entry line is present.
7. Click on the row under the **Communication Component** column, then click on the Value List drop down and select **Value List <F4**. Select the communication component name **BS\_FILE**, from the selection list and click **Apply**.

8. Click the Save Settings button to save the changes.

## Next Steps

Define sender/receiver relations for the individual connections in the Integration Scenario and specify Communication Channels that are relevant for the sender/receiver relations.

## Configuring Connections in the Integration Scenario (QuoteMessage)

The QuoteMessage integration scenario is used for the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing and Award Integration Using Material Master Item Data features.

## Context

The third integration scenario configuration step is to configure connections.

## Procedure

1. In the Model Configurator, click the **Configure Connections** button. You must assign Communication Channels to set up the connections.
2. In the **Connections from Component Assignment** tab in the Configure Connection window, click the empty **Communication Channel** cell corresponding to BS\_FILE in the **Receiver Business System Components** table.
3. Click the New Communication Channel button (the icon at the top left), and then select **Create Communication Channel with Template** to start the Create Communication Channel wizard.
4. Click **Continue**, and in the next page click the Name field, then click the Display Input Help drop down list and select **Input Help**. Select the following Communication Channel Template:
  - Name: CCT\_Quote\_cXML\_Sender
  - Namespace: `http://ariba.com/xi/ASN/QuoteMessage`
  - Software Component Version: ARIBA\_SOURCING\_ADAPTER, CIX of ariba.com

### → Tip

For customizations that you implement, use the software component ARIBA\_SOURCING\_CUSTOM\_ADAPTER 1.0 of ariba.com.

5. Click **Continue**, modify the channel name to CC\_File\_QuoteMessage\_Sender, and then click **Finish**.

#### → Tip

If you have already created and configured a Sender channel for BS\_FILE for another transaction, you can create the communication channel by copy from a channel already configured.

6. Click the **Activate All Connections** button, and then click **OK** in the dialog box.
7. Click the Save Settings button to save the changes.

## Next Steps

Generate the objects. Generation creates the configuration objects if they do not exist. If they already exist, they are reused and enhanced, if required.

You can also simulate generation for test purposes.

## Generating Objects for the Integration Scenario (QuoteMessage)

The QuoteMessage integration scenario is used for the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing and Award Integration Using Material Master Item Data features.

### Context

The fourth integration scenario configuration step is to generate objects.

### Procedure

1. In the Model Configurator, click the **Create Configuration Object** button.
2. In the Create Configuration Object window, make the following settings:
  - **General: Generation** (select the radio button for this option)
  - **Scope of Generation:** Select both the active check boxes – **Sender Determination**, and **Interface Determination**.
3. Select the **Create New** radio button under **Change List for Generated Objects** and use the proposed name or modify it.
4. Click on **Start** to begin generating objects.
5. When object generation is complete, click **Apply** to save the new configuration settings.

A log file is created by this operation. You can close the log file without saving it, or you can optionally save it if required for your needs.

# Configuring the Communication Channel (QuoteMessage)

The QuoteMessage integration scenario is used for the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing and Award Integration Using Material Master Item Data features.

## Context

Configure the communication channel `CC_File_QuoteMessage_Sender` under the `AR_QuoteMessage_Send` Configuration Scenario.

## Procedure

1. Under **Communication Channel**, double-click `|BS_FILE|CC_File_QuoteMessage_Sender` to open it, or right-click and select **Open**.
2. In the **Parameters** tab, set the parameters in the **Authentication** section to match your SAP Business Network Buyer account configuration.

### Note

If you created the channel by copy from an existing channel, you need to change the request type to `QuoteMessage` in the Inbound Request Type field.

3. If required, edit the other parameters.
4. Save your changes.

# Configuring the Interface Determination Settings (QuoteMessage)

The QuoteMessage integration scenario is used for the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing and Award Integration Using Material Master Item Data features.

## Context

Configure the interface determination settings to enable mapping enhancements.

Configuring the Interface Determination is a mandatory step if you need to configure the mappings.

## Procedure

1. Expand **Interface Determination**, and then click **BS\_FILE | | MIOut\_Async\_QuoteMessage\_cXML | | <Name of the Business System for the SAP ERP>**.
2. In the **Sender Interfaces** section of the **Edit Interface Determination** window, click the operation mapping value under the **Operation Mapping** column, then click the Value List drop down and select **Value List**.
3. Select the operation mapping **IFM\_cXML\_2\_ARBA\_CONTRACT** and click **Apply**.
4. Select the operation mapping **IFM\_cXML\_2\_ARBA\_QUOTE** and click **Apply**.

### Note

Maintain the following conditions to create contracts:

1. To create a contract from an award:
  - `cXML/Message/QuoteMessage/QuoteMessageHeader/QuoteHeaderInfo/FollowUpDocument/@type = K`
2. To create a contract from a purchase order
  - `cXML/Message/QuoteMessage/QuoteMessageHeader/QuoteHeaderInfo/FollowUpDocument/@type = F`

Maintain the following condition to create scheduling agreements:

```
cXML/Message/QuoteMessage/QuoteMessageHeader/QuoteHeaderInfo/FollowUpDocument/  
@type = L
```

5. The Multiplicity column displays the value "0..unbounded".
6. Save the interface determination settings.

## Activating the Integration Scenario (QuoteMessage)

The QuoteMessage integration scenario is used for the SAP RFQ and Award-to-Contract Integration with SAP Ariba Sourcing and Award Integration Using Material Master Item Data features. The final configuration step for supporting the QuoteMessage transaction in SAP NetWeaver PI is to activate your newly created scenario.

- From the **Change List** tab on the main application screen, activate all the Change Lists containing the objects created and modified during the component setup.

## Related Information

[Configuring SAP Ariba Sourcing and SAP Business Network for Integration with an ERP System \[page 59\]](#)



# Custom Field Integration with SAP S/4HANA or SAP S/4HANA Cloud

You can optionally map custom fields between SAP Ariba Sourcing and SAP S/4HANA or SAP S/4HANA Cloud.

SAP Ariba supports multiple data types when you map custom fields between SAP Ariba Sourcing and SAP S/4HANA or SAP S/4HANA Cloud. When SAP Ariba Sourcing creates sourcing requests based on SAP S/4HANA RFQs that contain custom fields, SAP Ariba maps the custom header level and line item fields to fields in SAP Ariba Sourcing.

You can use the following field types in custom fields:

- Boolean
- Date
- Decimal Number
- Integer
- Money
- Text

## Prerequisites

This feature has the following prerequisites:

- This feature requires SAP Integration Suite, managed gateway for spend management and SAP Business Network (CIG) integration between SAP Ariba Sourcing and SAP S/4HANA or SAP S/4HANA Cloud.
- Custom fields included in the `QuoteRequestHeader` must be available in SAP Ariba Sourcing, otherwise they won't be mapped.
- Custom fields created in SAP Ariba Sourcing must be configured as ERP Integration Fields.
- Custom field names in the `QuoteRequestHeader` and in SAP Ariba Sourcing should match.

## Creating an ERP Integration Field in SAP Ariba Sourcing

You can create ERP Integration Fields in SAP Ariba Sourcing that map to custom fields in SAP S/4HANA RFQs.

## Prerequisites

You must be a member of one of the following group:

- **Customer Administrator** (access to this group must be approved by SAP Ariba)

## Context

Custom field names in the `QuoteRequestHeader` and in SAP Ariba Sourcing should match.

## Procedure

1. In the Advanced mode in Ariba Administrator, click ► **Customization Manager** ► **Field Configuration** ►.
2. In the **Browse Classes** text box, search for `SourcingProject`.
3. Click `SourcingProject` and then click ► **Create Field** ► **Normal Field** ►.  
The **Create Normal Field** view appears.
4. Under the **General** tab, specify values for the **Label**, **Field Name**, and **Type** fields.  
The Field Name is auto-generated and must match the custom field name in the SAP S/4HANA RFQ. The field type must be **Multiline Text**, **Text**, **URL Link**, **Boolean**, **Date**, **Decimal Number**, **Integer**, or **Money**.
5. Specify a value for the **Default Value** field if you make this a required field.
6. Click the **Advanced** tab.
7. Select **ERP Integration Field**.
8. Click **OK**.

## Creating Term Fields for Line Item-Level Custom Fields

You can create Term fields in SAP Ariba Sourcing that map to line item-level custom fields in the RFQs from SAP S/4HANA Cloud.

## Prerequisites

- You must be a member of one of the following groups:
  - **Customer Administrator** (access to this group must be approved by SAP Ariba)
  - **Template Creator**
- To use custom fields in the 4BL integration scenario, enable the following features in your SAP Ariba Sourcing site:
  - [UP-7327 Custom mapping of extrinsic terms for incoming quote request cXML](#)
  - [SS-9766 Support Data types for NetworkRFQ Extrinsic](#)

To enable the above features, have your SAP Ariba Designated Support Contact log a service request. An SAP Ariba Support representative will follow up to complete the request.

## Context

Add Term fields to the sourcing template that maps to the line item-level custom fields in RFQs from SAP S/4HANA Cloud.

## Procedure

1. In the Advanced mode in Ariba Administrator, click ► **Manage** ► **Templates** .  
The **Templates** page appears.
2. Expand **Sourcing Templates**, click **Sourcing Request** and select **Open**.  
The **Sourcing Request** page appears.
3. In the Properties view, select ► **Actions** ► **New Version** .  
The **Sourcing Request** page appears.
4. Select **Documents** tab, click **Sourcing Request Items** and select **Edit**.  
The **Sourcing Request Items** page appears.
5. In the ► **Content** ► **Definitions** tab, select the line item and click **Edit**.  
The **Item template** page appears.
6. In the Item Terms table, click ► **Add** ► **Term** .  
The **Add Terms** page appears.
7. Under the **New term** tab, specify values for the **Name**, **External Field Mapping**, and **Answer Type** fields.  
The **Answer Type** must be **Boolean**, **Date**, **Decimal Number**, **Integer**, **Money**, or **Text**.
8. Click **Save**.  
The **Sourcing Request** page appears.
9. Click the **Overview** tab and select ► **Actions** ► **Publish** .

# Oracle RFQ and Award Integration with SAP Ariba Sourcing

[About Oracle RFQ and Award Integration with SAP Ariba Sourcing \[page 52\]](#)

[Prerequisites for Oracle RFQ and Award Integration with SAP Ariba Sourcing \[page 54\]](#)

[Support for Oracle RFQ and Award Integration \[page 55\]](#)

[Monitoring the RFQ and QuoteMessage Transactions with Oracle \[page 57\]](#)

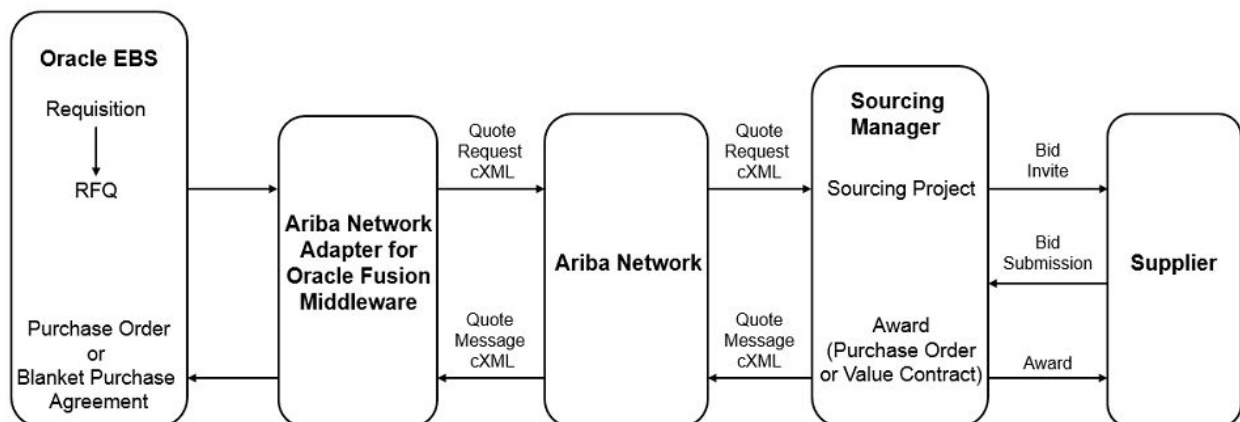
[Customizing RFQ and QuoteMessage Transactions with Oracle \[page 57\]](#)

## About Oracle RFQ and Award Integration with SAP Ariba Sourcing

The Oracle RFQ and Award Integration with SAP Ariba Sourcing feature allows the creation of sourcing events in SAP Ariba Sourcing Professional based on the information received from Oracle ERP system. This feature requires Cloud Integration release 6.0 of the Ariba Network adapter for Oracle Fusion Middleware 11g or later.

### Oracle ERP and SAP Ariba Sourcing Integration

The integration of Oracle ERP with SAP Ariba Sourcing Professional from an Oracle RFQ to purchase order or blanket purchase agreement (value contract) in Oracle ERP is as follows:



1. Oracle ERP sends the required RFQ data to create a sourcing project in SAP Ariba Sourcing.
2. The Ariba Network adapter for Oracle Fusion Middleware converts the RFQ data to a QuoteRequest cXML document.
3. The QuoteRequest cXML document is sent to SAP Ariba Sourcing through the SAP Business Network.

4. The `QuoteRequest` cXML document creates a sourcing request in SAP Ariba Sourcing. The sourcing request contains the header-level data, line-level data, supplier data, and any attachments received from the `QuoteRequest` cXML document.
5. The sourcing request is routed to the appropriate sourcing manager based on the header fields such as commodity, region, department, and so on.
6. The sourcing manager reviews and approves the sourcing request and creates the sourcing project as a sub-project of the sourcing request and publishes the event.
7. Suppliers bid for the event and after bidding is complete, the event is awarded to the selected supplier. SAP Ariba Sourcing sends the award information through SAP Business Network to Oracle ERP in the `QuoteMessage` cXML document. The `QuoteMessage` cXML document contains detailed information about the winning bid and the supplier.
8. The `QuoteMessage` response creates either a purchase order or a blanket purchase agreement (value contract) in Oracle ERP.

## Related Information

[Prerequisites for Oracle RFQ and Award Integration with SAP Ariba Sourcing \[page 54\]](#)

[Oracle ERP Integration Limitations \[page 55\]](#)

# RFQ and Sourcing Award Documents for Oracle ERP Users

## RFQ Documents

A request for quotation (RFQ) is a standard business document used to invite suppliers to bid on providing specific products or services. Oracle ERP users can create RFQs and send them to the Ariba Network adapter for Oracle Fusion Middleware for processing, and from there to SAP Business Network for routing to SAP Ariba Sourcing for approval and processing.

RFQs created in Oracle Financials are integrated with SAP Business Network. As part of this integration, the following types of Oracle RFQs are supported:

- Standard RFQ
- Bid RFQ
- Catalog RFQ

The `QuoteRequest` cXML document creates a sourcing request in SAP Ariba Sourcing. The sourcing request contains the header-level data, line-level data, supplier data, and any attachments received from the `QuoteRequest` cXML document.

## Sourcing Award Documents

SAP Ariba Sourcing generates a cXML `QuoteMessage` document for each award in a sourcing event that originates from an Oracle RFQ.

SAP Ariba Sourcing sends the award information through SAP Business Network to Oracle ERP in the `QuoteMessage` cXML document. The `QuoteMessage` cXML document contains detailed information about the winning bid and the supplier.

Based on the document type selected in SAP Ariba Sourcing Professional, the Ariba Network adapter for Oracle Fusion Middleware converts the `QuoteMessage` cXML document which creates either a standard purchase order or a blanket purchase agreement in Oracle ERP:

Document Type in SAP Ariba Sourcing Professional	Oracle ERP
Purchase Order	Standard purchase orders
Contract	Blanket purchase agreements (value contracts)

#### Note

To create standard purchase orders or blanket purchase agreements in Oracle ERP, sourcing managers can select the default **Document Category** and ignore other options.

To create standard purchase orders or blanket purchase agreements, Ariba Network adapter for Oracle Fusion Middleware uses Oracle Standard Purchasing Document Open Interface tables:

- `PO_HEADERS_INTERFACE`
- `PO_LINES_INTERFACE`
- `PO_DISTRIBUTIONS_INTERFACE`

## Prerequisites for Oracle RFQ and Award Integration with SAP Ariba Sourcing

- Configure SAP Ariba Sourcing and SAP Business Network for integration with Oracle ERP.
- Configure the `ChannelsConfig.properties` file, for RFQ and Award transactions, to include the following information:
  - Enter `QuoteRequest` and `QuoteMessage` values for the `requestType` parameter.
  - Enter `1.2.025` or higher for the `cXML version` parameter.
- Maintain the accounting combination ID in the `value_map` table for standalone RFQs because Oracle ERP expects accounting information for purchase order which is not included in the `QuoteMessage` documents received from SAP Ariba Sourcing.

If the RFQ is against a requisition, the Ariba Network adapter for Oracle Fusion Middleware uses the accounting details from the first line in the RFQ and applies them to all the lines of the purchase order. Purchase orders are created in Oracle ERP as 'non-approved' purchase orders, so you can edit the purchase order and modify the accounting information as needed.

# Oracle ERP Integration Limitations

- `QuoteRequest` cXML documents do not contain shipment line information, therefore, shipment lines in RFQ documents are sent as lines to SAP Business Network. However, if you choose the linetype as 'Consulting', Oracle ERP allows you to create an RFQ without shipment information and SAP Business Network sends the RFQ lines as is.
- The supplier who sends a quote response must exist as a valid supplier in Oracle ERP, and only one `QuoteMessage` document per supplier per event is supported. The Ariba Network adapter for Oracle Fusion Middleware can only send the lead bid and not all bidding results to the Oracle ERP.
- If a supplier does not exist in Oracle ERP, the `QuoteMessage` document is parked in SAP Business Network. You must create the supplier manually in Oracle ERP and then send the `QuoteMessage` document to Oracle ERP.
- Ariba Network adapter for Oracle Fusion Middleware supports only `AMOUNT` and `QUANTITY` line types. Additional line types such as `FIXED PRICE` and `RATE` are not supported although Oracle ERP supports them.
- Only if the `QuoteMessage` is for an award type, the BPEL does any further processing, otherwise the processing stops and an email notification is sent.
- Although Oracle ERP supports the deletion of RFQ lines, it does not update the timestamp of the respective table. As a result, the Ariba Network adapter for Oracle Fusion Middleware does not pull the record. Similarly, supplier deletion and unit price updates are not supported.
- The following mandatory fields in SAP Ariba Sourcing are not relevant for Oracle ERP and you must enter the value as "0" (zero) for these fields:
  - **Discount percentage**
  - **Discount Amount**
  - **Surcharge Amount**
  - **Surcharge Percentage**
- Attachments for RFQ and award documents are not supported end-to-end out-of-the-box.

## Support for Oracle RFQ and Award Integration

The following sections describe the procedure for configuring and managing support for RFQ and award integration:

### Related Information

[Configuring SAP Ariba Sourcing and SAP Business Network for Integration with an ERP System \[page 59\]](#)

[Prerequisites for Oracle RFQ and Award Integration with SAP Ariba Sourcing \[page 54\]](#)

[Oracle ERP Integration Limitations \[page 55\]](#)

# Configuring Integration for RFQs Created in Oracle Financials

## Context

Complete this procedure to ensure RFQs created in Oracle Financials are pulled by the Ariba Network adapter for Oracle Fusion Middleware.

## Procedure

1. Create a custom table called `ARIBA_TRANSACTION_FILTER_TAB` by running `CustomTableCreationScript.sql` script in the Oracle ERP Apps Schema.
2. Based on the type of RFQ you need to pull, insert values in the above table. For example, run the statement `- Insert into ARIBA_TRANSACTION_FILTER_TAB (TRANSACTION, PARAMETER_NAME, VALUE) values ('RFQ', 'DOCTYPE', 'CATALOG')` to pull catalog RFQs. The Ariba Network adapter for Oracle Fusion Middleware pulls the RFQ based on the DOCTYPE maintained for each RFQ type in the table. However, you can use pull based on any other parameter as required.
3. In Oracle ERP, after you create and save the RFQ document, you must change the status to **Active**. Only RFQs with the status of **Active** are pulled.

# Configuring Integration for QuoteMessages

## Context

Complete this procedure to support integration of QuoteMessages.

## Procedure

1. In the `VALUE_MAP` table, maintain values for the following parameters:

MAP_TYPE	MAP_KEY	MAP_VALUE
ACCOUNT COMBINATION ID	CHARGE_ACCOUNT_ID	value
BUYER UNIQUE IDENTIFIER	AGENT_ID	value

The above parameters are required for standalone RFQs that are not created against a requisition. You must maintain the account combination ID in the `VALUE_MAP` table because the `QuoteMessage` document is sent as a standard purchase order to Oracle Financials and to create POs in Oracle Financials, account combination ID is required. Similarly, you must maintain the agent name or agent ID in the `VALUE_MAP` table because when a PO is pushed to the interface tables, agent name or agent ID is required. The agent name or agent ID is the unique



identifier for the SAP Business Network buyer maintained in Oracle Financials. You can retrieve the agent ID by querying the `PER_PEOPLE_F` table in the Oracle ERP Apps Schema.

2. Maintain the matching type for each RFQ document in the `VALUE_MAP` table. For example, Insert into `VALUE_MAP` values ('RFQ', 'STANDARD', 'invitationOnly'). This indicates that the RFQ document type `STANDARD` is mapped to `invitationOnly` supplier matching type. If no matching type is maintained, then by default, the cXML Adapter sends the `approvedVendorOnly` matching type to SAP Business Network.

## Managing Support for RFQ and QuoteMessage Transactions

### Context

Complete this procedure to ensure integration of RFQs and QuoteMessage between Oracle Financials and SAP Business Network.

### Procedure

1. Download `AribaNetworkAdapterOracleFusion_11g_vCI_x_FR.zip` file from **connect.ariba.com**.
2. Extract the above zip file on your file system.
3. Deploy the SOA composites for the RFQ and QuoteMessage transactions. `QuoteRequest` and `QuoteMessage` can be deployed using the BuidINDeploy tool.
4. Configure the `ChannelsConfig.properties` file for both RFQ and QuoteMessage transactions.

## Monitoring the RFQ and QuoteMessage Transactions with Oracle

When you use Ariba Network adapter for Oracle Fusion Middleware 11g, you can monitor the status of BPELs you deploy to the Weblogic Server in the Oracle Enterprise Manager (EM) console.

All the logs are available under **soa\_home > servers > <domain> > <soa server> > logs**.

## Customizing RFQ and QuoteMessage Transactions with Oracle

You can perform customizations in the CustomMap SOA composite `OutQuoteRequestCustomMap` and `InQuoteMssasgeCustomMap` for RFQ and QuoteMessage transactions respectively.

#### Note

Customizations are supported only in the CustomMap SOA composite.

# Configuring SAP Ariba Sourcing and SAP Business Network for Integration with an ERP System

The following sections apply to both SAP ERP and Oracle ERP systems:

[About Configuring SAP Ariba Sourcing and SAP Business Network for Integration with an ERP System \[page 59\]](#)

[Creating Sourcing Events from Sourcing Requests \[page 62\]](#)

## About Configuring SAP Ariba Sourcing and SAP Business Network for Integration with an ERP System

Sourcing requests are built on the cXML data received from an ERP system. For SAP ERP only, data is also inherited from the template used to create the sourcing request.

You create an RFQ in your ERP system and send it through the Ariba Network adapter for SAP NetWeaver (SAP ERP) or Ariba Network adapter for Oracle Fusion Middleware (Oracle ERP) to create a cXML `QuoteRequest` document that contains specific information needed to create a sourcing request. The cXML document is sent to SAP Ariba Sourcing through the SAP Business Network. If SAP Ariba Sourcing is configured to handle a `QuoteRequest` as a sourcing request rather than an SAP Ariba spot quote event, it creates a sourcing request. A sourcing manager must approve the request and invites suppliers to participate based on the criteria specified in the cXML `QuoteRequest` document and the sourcing request template. Bids are sent back to the ERP system through a cXML `QuoteMessage` document.

Before events are published, the following information must be included in the event in addition to the data from the ERP system:

- Event open date and time
- Event close date and time
- Suppliers

For information about enabling SAP Ariba Sourcing to process a `QuoteRequest` as a sourcing request, see [Configuring SAP Ariba Sourcing for Integration with an ERP System \[page 60\]](#).

# Configuring SAP Ariba Sourcing for Integration with an ERP System

The integration of an ERP system with SAP Ariba Sourcing involves the collaborative functioning of multiple SAP Ariba solutions with the ERP system.

## Procedure

1. Contact your SAP Ariba Customer Support representative to enable the integration of the ERP strategic sourcing requests with SAP Ariba Sourcing for your site. Customer Support enables the integration by running the scheduled task, `EnableSourcingERPIntegration`. This task ensures that all `cXML QuoteRequest` documents received in SAP Ariba Sourcing are treated as sourcing requests rather than spot quote events.

### Note

A site in SAP Ariba Sourcing can only be configured to handle a `cXML QuoteRequest` as a sourcing request or a spot quote, not both.

2. Contact your SAP Ariba Customer Support representative to configure an SAP Business Network endpoint.

## Related Information

[Configuring SAP Business Network for Integration with an ERP System \(SAP Ariba Customer Support\) \[page 60\]](#)

[Configuring SAP Business Network for Integration with an ERP System \(SAP Business Network Buyers\) \[page 61\]](#)

# Configuring SAP Business Network for Integration with an ERP System (SAP Ariba Customer Support)

An SAP Business Network Buyer account must be configured to route `QuoteRequest` documents to SAP Ariba Sourcing. Both the SAP Business Network buyer and SAP Ariba Customer Support must perform configuration tasks.

## Context

The steps described below are performed by SAP Ariba Customer support to configure SAP Business Network integration with your ERP system. For information about the steps that SAP Business Network buyers must perform, see [Configuring SAP Business Network for Integration with an ERP System \(SAP Business Network Buyers\) \[page 61\]](#).

## Procedure

1. Click ► **Production Admin Apps** ► **AN Admin** ►
2. Search for and access the SAP Business Network Buyer account for which you want to enable this functionality.
3. Click **Convert to Ariba Open Network** in the **Ariba Open Network** section.
4. Click **Update**.
5. Click **Enable end point support** in the **End Point** section.
6. Click **Update**.

## Configuring SAP Business Network for Integration with an ERP System (SAP Business Network Buyers)

An SAP Business Network Buyer account must be configured to route `QuoteRequest` documents to SAP Ariba Sourcing. Both the SAP Business Network buyer and SAP Ariba Customer Support must perform configuration tasks.

### Prerequisites

SAP Ariba Customer Support must perform the steps described in [Configuring SAP Business Network for Integration with an ERP System \(SAP Ariba Customer Support\)](#) [page 60].

### Context

The steps described below must be performed by SAP Business Network Buyers to configure SAP Business Network integration with their ERP system.

## Procedure

1. Sign in to your SAP Business Network Buyer account as an administrator.
2. Click ► **Manage Profile** ► **Business End Point (cXML setup)** ►

The **Configure Business End Points** page allows you configure end points to route documents to various systems.

3. Click **Create**.

There are 2 end points that must be configured to enable functionality: one for SAP Ariba Sourcing and another for your ERP system

4. Configure the SAP Ariba Sourcing end points as follows:

- **End Point ID:** Enter a descriptive value that represents your SAP Ariba Sourcing system (without spaces).
- **Authentication Method:** Enter the same value you entered in your SAP Ariba Sourcing site.
- **Profile URL:** Enter the URL that Ariba uses to receive the cXML transaction list for your system:

```
https://mySAPArribaSourcingDomain/Sourcing/cxmlchannel/ANxxx
```

Where:

- *mySAPArribaSourcingDomain* is the domain you see in your browser's address window when you are signed in to SAP Ariba Sourcing or SAP Ariba Strategic Sourcing Suite, such as *myCompany.sourcing.ariba.com*.
- *ANxxx* is your Ariba site name for the SAP Ariba Sourcing solution. If you do not know your site name, you can get it from your SAP Ariba representative.
- **Post URL:** This is the URL that SAP Business Network posts the cXML documents to. Enter the same URL you entered for **Profile URL**.

5. Click **Save**.

6. Click **Create** to create an end point for your ERP system.

Your ERP system may have shared secret information that must be configured in your SAP Business Network Buyer account. This ensures that your ERP system can receive pending calls and pull data from your SAP Business Network Buyer account.

7. Click **Configure Document Routing**.

8. Configure the following settings to route documents to the appropriate end points.

- **Request for Quotations:** This setting ensures that RFQs are routed to SAP Ariba Sourcing. Enter the value of the SAP Ariba Sourcing end point you created in step 3.
- **Quotes:** This setting ensures that bids are routed to your ERP system. Enter the value of the end point you created for your ERP system in step 6.

9. Click **Save**.

## Creating Sourcing Events from Sourcing Requests

After a sourcing request project is approved, use this procedure to create a sourcing project or event from the sourcing request.

### Prerequisites

- The sourcing request is approved and a **Sourcing Project** subproject is visible under the **Documents** tab.
- You must be a member of one of the following groups:

**Category Manager**

**Commodity Manager**

**Customer Administrator** (access to this group must be approved by SAP Ariba)

**Event Administrator** (access to this group must be approved by the SAP Ariba Market Coordination Team)

**Junior Procurement Agent**

**Junior Sourcing Agent**

**Limited Event Administrator** (access to this group must be approved by the SAP Ariba Market Coordination Team)

**Procurement Agent**

**Sourcing Agent**

**Sourcing Approver**

**Sourcing Project Administrator** (access to this group must be approved by the SAP Ariba Market Coordination Team)

## Procedure

1. On the dashboard search bar, click the content type menu to the left of the search field and select **Sourcing Request**.
2. Enter search terms in the search field.
3. Perform one of the following actions:
  - Press  or click the search icon (Q ) to start the search.
  - Select a search filter or save search from the filter menu to the right of the search field. The search starts automatically.
4. Click the **Sourcing Request** to open it.
5. Locate the **Sourcing Project** subproject under the **Documents** tab. Click **Sourcing Project** and choose **Open**.  
The **Create Sourcing Project** page opens.
6. Select the sourcing project type. If you select **Quick Project**, select a value for **Event Type**.
7. Enter the details of the project or event you want to create.  
The header field entries in the parent sourcing request, such as regions and departments, are carried over to the sourcing event.
8. Select a template for your project or event.
9. Click **Create**.

## Results

- If you create a **Quick Project** from a sourcing request, the event is populated with header fields and event information (including line items) from the sourcing request and the **Sourcing Request Items** document.
- If you create a **Full Project** from a sourcing request, the project is populated with header fields from the sourcing request.
  - If you create a **Full Project** from a template that contains one event (or only one event based on visibility conditions), the event is populated with header fields and event information (including line items) from the sourcing request and the **Sourcing Request Items** document.

If the full project template contains more than one event, the user is prompted to select the document (event) that the line items from the **Sourcing Request Items** document will be copied to.

- If you create a **Full Project** you can add an ad hoc event (an event that is not inherited from the full project's template). Or, if you create a **Full Project** from a template with a document choice document, you create an event from the document choice. In these cases:
  - The event is populated with header fields from the full project.
  - You can navigate to the **Content** page for the event and choose the **Add > Content from Sourcing Request** option to add line items from the **Sourcing Request Items** document.

After the sourcing event (or project) is created, any change or delete requests from the ERP system has no effect on the event (or project) contents or state. SAP Ariba Sourcing sends an email notification to all active team members about the request and creates a log entry about the request.

#### Note

If the sourcing request was created from the RFQ and Award Integration with SAP Ariba Sourcing feature, you must be a member of the **Integration Protected Fields Editor** group to edit field values that originated from the ERP system. However, SAP Ariba recommends that you do not edit field values that originated from the ERP system; doing so can cause the ERP to reject award data sent from SAP Ariba Sourcing.



# Creating Sourcing Request Templates for ERP Integration

Sourcing request templates for ERP integration are used only when SAP Ariba Sourcing creates a sourcing request because of an integration event (a message received from an external system).

## Prerequisites

To create or edit project templates, you must be a member of the global **Template Creator** group or the **Templates** project's **Template Creators** team group.

## Context

SAP Ariba includes a default sourcing request template, **Sourcing Request Template** for ERP integration. By default, SAP Ariba Sourcing uses this template to create a sourcing request when it receives a `QuoteRequest` cXML document from an ERP. The **Sourcing Request Template** contains items required for ERP integration and you must use this template or a copy of this template for ERP integrations.

The **Sourcing Request Template** contains the following items:

- The visibility condition `IsExternalOrigin`, defined as `((Origin)is equal to(External))`. This condition is true for sourcing requests created from `QuoteRequest` cXML documents (SAP Ariba sets the field `Origin` to `External` for sourcing requests created from `QuoteRequest` documents).
- A sourcing project as a subproject of the sourcing request. This subproject acts as a placeholder that can be opened to create a sourcing project (full project or quick project) from the request. By default, the subproject is not visible until the request is approved.
- A **Sourcing Request Items** content document, which is initially populated with data from the `QuoteRequest` document sent by the ERP. This is a special mapping document that contains information about an event, such as event rules, content (including line items from the `QuoteRequest`), and participants. If a sourcing project is created from the request, information in this document is propagated to the new sourcing project.

The **Sourcing Request Template** also contains the following tasks:

- **Send Notifications for New Sourcing Request**  
This task sends a notification to the Sourcing Manager group when the request is created.
- **Prepare Sourcing Request**  
This is a required to do task. You can add text in the **Description** field with instructions for the sourcing manager to modify the header level fields like Region, Department, or Commodity Code if needed.
- **Approval for Sourcing Request**  
This is an approval task. By default, the approval flow is empty, so the task is automatically approved when it is submitted. When this task is approved, the **IsApproved** condition becomes true and the subproject (sourcing project) becomes visible below the **Documents** tab.

By default, SAP Ariba supports only one sourcing request template for ERP integration; however, SAP Ariba can enable your site to support multiple sourcing request templates for ERP integration. With multiple templates, you can create templates with different terms, team members, approval flows, or other item based on values in the `QuoteRequestHeader` of the `QuoteRequest`.

SAP Ariba selects the template used to create a sourcing request from a `QuoteRequest` cXML document as follows:

- SAP Ariba searches for external sourcing request templates (templates with a visibility condition defined as `((Origin)is equal to(External))`; this condition is true if the request is being created from a `QuoteRequest` cXML document.
- If the ERP was configured to send a template ID (such as SR1234) for the `templateName` field in the `QuoteRequestHeader`, SAP Ariba searches for a template with the matching ID.
- SAP Ariba checks any additional conditions in the templates for matching values in `QuoteRequestHeader` extrinsic values. By default, an SAP ERP sends the extrinsic values listed in [Configuring Sourcing Request Templates to Use External System Fields \[page 68\]](#) that can be used for field matching.
- If more than one template matches attributes in the `QuoteRequest` document, SAP Ariba sorts the matching templates by the **Rank** field in ascending order. SAP Ariba then sorts the templates with the same rank by the **Name** field in ascending alphabetical order and uses the first matching template.

## Procedure

1. On the command bar, choose **Manage Templates**. Navigate to the **Documents** tab.
2. Locate the **Sourcing Request Template**. Open the **Condition** tab and verify that the `IsExternalOrigin` condition is present and defined as `((Origin)is equal to(External))`. Click the template name and choose **Action > Copy**.
3. Enter a name for the new template.
4. Click **OK**.
5. **Optional:** If you have multiple sourcing requests for ERP integration and want SAP Ariba to use the **Rank** to sort the templates when there are multiple matching templates, set the **Rank**.
  - a. Navigate to the **Properties** area of the template.
  - b. Choose **Actions > Template > Edit Properties**.
  - c. Enter a value in the **Rank** field and click **Save**.

The default **Rank** value is 0 (the lowest rank).

6. If you are creating multiple sourcing request templates for ERP integration, create conditions to enable the server to select the appropriate template, such as visibility conditions based on the commodity or region.

You can use values sent from the SAP external system to define conditions. See [Configuring Sourcing Request Templates to Use External System Fields \[page 68\]](#).

7. To map fields in the `QuoteRequest` to item terms or questions, see [Configuring Sourcing Request Templates to Use External System Fields \[page 68\]](#).
8. Add project team members and any other additional documents or tasks.

### Note

You can also add documents to the template, but do not remove the **Sourcing Request Items** content document. When a sourcing request is created from an integration event, this document is used to store

information received from the SAP ERP system. If a sourcing project is created from this request, data from the **Sourcing Request Items** document is propagated to the sourcing project.

9. Publish the template. Choose **Actions > Publish** from the **Overview** tab.
10. If you have multiple sourcing request templates for ERP integration and want SAP Ariba to select the template based on the `templateName` sent in the `QuoteRequestHeader`, provide the value of template's **ID** field to the ERP administrator. The administrator must configure the ERP to send this value.

## Results

After a sourcing request is created, you can open the **History** tab. Click the **Template Details** link in the **Details** column of the entry added when the request was created. On the template details page, the field **Automatically Matched Template** specifies the name of the template used to create the request; the field **Additional Matching Templates** specifies the names of all templates that matched the request.

If an ERP sends an RFQ to create a sourcing request in SAP Ariba Sourcing and there are no active sourcing request templates that match, SAP Ariba Sourcing returns an HTTP 400 Bad Request error code with the message "The default RFX document could not be found. This could be because sourcing request template for ERP integration events is wrongly configured." It is up to the ERP system to handle this error scenario. Retransmissions of the same request will continue to fail until a matching, active sourcing request template is available.

## Related Information

[Project Template Conditions](#)

[Project Groups and Team Members](#)

[Project Groups and Team Members](#)

[Documents in Project Templates](#)

[Configuring Sourcing Request Templates to Use External System Fields \[page 68\]](#)

[Configuring Sourcing Request Templates for Service Items \[page 72\]](#)

# Configuring Sourcing Request Templates to Use External System Fields

An SAP external system sends fields as extrinsics in the `quoteMessage` request that are mapped to sourcing request fields. You can also map extrinsics to item terms and to responses for event questions.

## Context

By default, an SAP external system (such as an SAP ERP) sends values for the following extrinsics, which are mapped to sourcing request fields:

Extrinsic	Sourcing Request Field
<code>CompanyCode.Id</code>	Company Code
<code>PurchasingOrganization.Id</code>	Purchasing Organization
<code>PurchasingGroup.Id</code>	Purchasing Group
<code>PaymentTerms.Id</code>	Payment Terms

You can map additional fields (extrinsics) from the external system to item terms or to responses for event questions.

## Procedure

1. On the command bar, choose **Manage Templates**. Navigate to the **Documents** tab.
2. Locate the **Sourcing Request Template**. Open the **Condition** tab and verify that the `IsExternalOrigin` condition is present and defined as `((Origin)is equal to(External))`. Click the template name and choose **Action > Copy**.
3. To map an external system field to an item term:
  - a. Navigate to the **Documents** tab and open the **Sourcing Request Items** document for editing.
  - b. Use the navigation menu on the left to open the **Contents** area.
  - c. Open the **Definitions** tab.
  - d. If there is an existing definition for line items (such as **Item Template**), select it. If not, click **Add > Line Item**.
  - e. Complete one of the following actions:
    - To add a term defined by SAP Ariba or defined in another template, navigate to the bottom of the **Item Terms** area and select **Add > Term**. Under the **Available Terms** tab, click the expansion arrow for

**Source Type: System Global** to add a term defined by SAP Ariba or the arrow for **Source Type: Global** for a term defined in another template. Select the term you want to add. After the term is added, click the term name and select **Edit**.

- To create a new term, navigate to the bottom of the **Item Terms** area and select ► **Add** ► **Term** ►. Click the **New Term** tab.
  - To make a term read-only, choose **Yes** for **Make this term as read-only?**
- f. **Optional:** In the **ERP field mapping** field, specify the ERP term using the name of the `QuoteRequest` extrinsic that you want to map to the SAP Ariba term.

The mapping is also used when sending award data for an event created from the sourcing request back to the ERP.

You can create separate terms to map ERP long text descriptions for line items. See [ERP Field Mapping Limitations and Considerations for SAP Ariba strategic sourcing solutions \[page 70\]](#).

You can also create a link between an extrinsic mapped to an SAP Ariba term and a response to a question. See step 4.

#### ⚠ Limitations

You cannot map ERP terms to the SAP Ariba terms listed in [ERP Field Mapping Limitations and Considerations for SAP Ariba strategic sourcing solutions \[page 70\]](#).

- g. Specify additional information for the term, including the data type.
4. To map an external system field to a response for an event question:
- a. Open the **Sourcing Request Items** content document for editing.
  - b. Use the navigation menu on the left to open the **Contents** area. Open the **Contents** tab (next to the **Definitions** tab).
  - c. Select ► **Add** ► **Question** ► or choose an existing question and select **Edit**.
  - d. In the **ERP field mapping** field, specify the ERP term using the name of the `QuoteRequest` extrinsic that you want to map to the response.

If the mapped ERP term is received in the sourcing request data (`QuoteRequest`) from the external system, the value is shown as the response to the question. In addition, the value is sent back to the external system from an award in a `QuoteMessage`.

By default, the following ERP terms can be mapped as responses to event questions:

- `Country of OriginCode`
- `Tax Code`
- `PriceDate Category` (pricing date category)
- `Standard Order Quantity`
- `Minimum Order Quantity`
- `Inco Term 1` (International Commercial Terms, Incoterms, specified using a three-letter ID)
- `Inco Term 2` (Incoterms specified using a text description)

#### ⚠ Limitations

You cannot map ERP terms to the SAP Ariba terms listed in [ERP Field Mapping Limitations and Considerations for SAP Ariba strategic sourcing solutions \[page 70\]](#).

You can also map an ERP term that is mapped to an SAP Ariba term using the **ERP field mapping** field (as described in the previous step) to a response for a question.

## Related Information

[Creating Sourcing Request Templates for ERP Integration \[page 65\]](#)

[Configuring Sourcing Request Templates for Service Items \[page 72\]](#)

# ERP Field Mapping Limitations and Considerations for SAP Ariba strategic sourcing solutions

## Limitations

You cannot map ERP terms to the following SAP Ariba terms:

- **Baseline Spend** (from SAP Target Value)
- **Company Code**
- **Document Category**
- **Document Type**
- **Payment Terms**
- **Purchasing Group**
- **Purchasing Organization**
- **Attachment**
- **Comment**
- **Lead Time**
- **Manufacturer Part ID**
- **Manufacturer Name**
- **Quantity**
- **Requested Delivery Date**
- **Ship To**
- **Shipping**
- **Shipping Description**
- **Supplier Part ID**
- **Supplier Part Auxiliary ID**
- **Tax**
- **Tax Description**
- **Total Cost**
- **Unit Price**
- **URL**

### 📘 Note

**Baseline Spend** is mapped to the extrinsic field `TargetValue`, whereas other fields are mapped to eponymous extrinsic fields.

## Considerations

You can create separate terms to map ERP long text descriptions for line items. SAP Ariba cloud integration release 9.0 HF19 or later consolidates ERP long text descriptions into one single “internal” extrinsic and one “external” extrinsic in the inbound `QuoteRequest`. The two extrinsics are `InternalNote` and `ExternalNote`. Both extrinsics contain the same value, but you determine how to map them.

### 📘 Note

Although Ariba Network adapter for SAP NetWeaver sends the header-level and line-item level text description, users on SAP Ariba Sourcing can only view the text descriptions for internal and external users at the line-item level. SAP Ariba Sourcing does not allow users to view the text descriptions for internal and external users at the header level.

# Configuring Sourcing Request Templates for Service Items

To receive service items from SAP and send them back in a structure (a service hierarchy) so that they are processed by SAP as service items, you must add a definition for a **Service Line** in the **Sourcing Request Items** document of a sourcing request template.

## Context

You must also add terms to the line item definition that will be used for service specifications.

## Procedure

1. On the command bar, choose **Manage Templates**. Navigate to the **Documents** tab.
2. Locate the **Sourcing Request Template**. Open the **Condition** tab and verify that the `IsExternalOrigin` condition is present and defined as `((Origin)is equal to(External))`. Click the template name and choose **Action > Copy**.
3. Navigate to the **Documents** tab and open the **Sourcing Request Items** document for editing.
4. Use the navigation menu on the left to open the **Contents** area.
5. Open the **Definitions** tab.
6. If there is not already a definition for a service line, select **Add > Service Line**.
7. Navigate to the terms area for the service line. The following terms are required for integration with SAP. If they do not already exist, add them:
  - **Quantity** (the value must be 1)
  - **Requisition ID**
  - **RFQ ID**
  - **Requisition Item Number**
  - **RFQ Item Number**These terms must have the following settings:
  - **Include in cost:** No
  - **Answer Type:** Text (single line limited)
8. **Optional:** You can also add the following terms:
  - **Discount Amount** (Answer Type: Money)
  - **Discount Percentage** (Answer Type: Percentage)
  - **Surcharge Amount** (Answer Type: Money)
  - **Surcharge Percentage** (Answer Type: Percentage)



The **Discount Amount**, **Discount Percentage**, **Surcharge Amount**, and **Surcharge Percentage** terms can be mapped to SAP pricing conditions. For information about price condition mapping, see [Configuring the Integration to Use Pricing Conditions as an Extrinsic Element \[page 32\]](#).

### ⚠ Limitations

If award data from an event is used to create an Outline Agreement (OA) on an SAP ERP, do not include **Discount Amount**, **Discount Percentage**, **Surcharge Amount**, and **Surcharge Percentage** terms for service lines.

9. If there is not already a definition for a service specification, select ► **Add ► Service Specification** ►.

Navigate to the terms area for the service specification definition. Add the same terms that you added for SAP integration in the service line definition.

If your site is configured for alternative service line integration with SAP, add the following terms if they are not already present:

- **Service Line Type**

Settings:

- **Include in cost:** No
- **Answer Type:** Text (single line limited)
- **Acceptable Values:** List of Choices
- **Allow participants to specify other value?:** No
- **Allow participants to specify multiple values?:** No
- **List of Choices:**
  - blanket
  - contingency
  - information
  - openquantity
  - standard

- **Alternate Type**

Settings:

- **Include in cost:** No
- **Answer Type:** Text (single line limited)
- **Acceptable Values:** List of Choices
- **Allow participants to specify other value?:** No
- **Allow participants to specify multiple values?:** No
- **List of Choices:**
  - noAlternative
  - basicLine
  - alternativeLine

- **Alternate To Item**

Settings:

- **Include in cost:** No
- **Answer Type:** Text (single line limited)
- **Acceptable Values:** List of Choices
- **Allow participants to specify other value?:** No

- Allow participants to specify multiple values?: No

## **Related Information**

[Creating Sourcing Request Templates for ERP Integration \[page 65\]](#)

[Configuring Sourcing Request Templates to Use External System Fields \[page 68\]](#)

# Disabling RFQ ERP Integration

You can disable RFQ ERP integration (SAP ERP integration with SAP Ariba Sourcing and Oracle RFQ and Award Integration with SAP Ariba Sourcing). Disabling RFQ integration prevents SAP Ariba Sourcing from receiving and processing RFQs from an ERP.

## Procedure

1. On the Ariba Spend Management command bar, choose **Manage Templates**. Navigate to the **Documents** tab.
2. Deactivate all sourcing request templates that can be used for RFQ ERP integration.
  - a. Locate the **Sourcing Request Template** and any other sourcing request templates.
  - b. Open each template, then open the **Condition** tab. If the `IsExternalOrigin` condition is present and defined as `((Origin)is equal to(External))`, the template can be used for RFQ ERP integration.
  - c. If the template can be used for RFQ ERP integration, open the **Overview** tab and locate the **Properties** area. Select **Actions** > **Inactivate** >

## Results

If an ERP sends an RFQ to create a sourcing request in SAP Ariba Sourcing and there are no active sourcing request templates that match, SAP Ariba Sourcing returns an HTTP 400 Bad Request error code with the message "The default RFX document could not be found. This could be because sourcing request template for ERP integration events is wrongly configured." It is up to the ERP system to handle this error scenario. Retransmissions of the same request will continue to fail until a matching, active sourcing request template is available.

# SAP ERP Functionality and Mapping Information for QuoteRequest and QuoteMessage Documents

[Topics About QuoteRequest and QuoteMessage Document Creation and Processing \[page 77\]](#)

[SAP ERP Integration with SAP Ariba Sourcing Data Flow \[page 77\]](#)

[QuoteRequest Documents for SAP Ariba Sourcing Integration \[page 83\]](#)

[QuoteMessage Documents for SAP Ariba Sourcing Integration \[page 91\]](#)

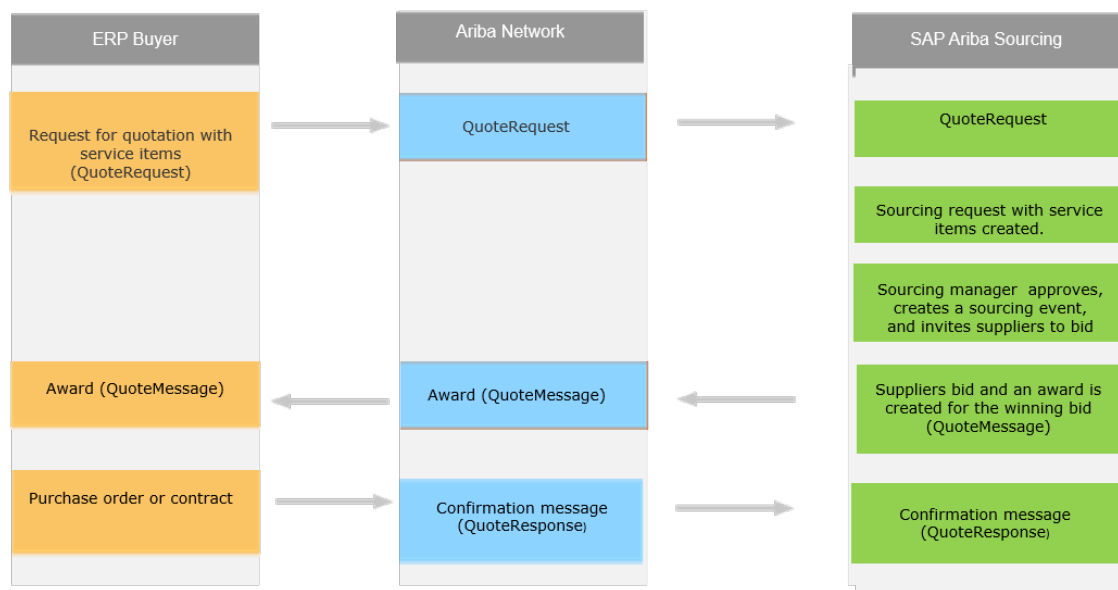
# Topics About QuoteRequest and QuoteMessage Document Creation and Processing

The topics in this section describe how the SAP ERP integration components create cXML `QuoteRequest` documents and process cXML `QuoteMessage` documents. You can use this information to determine if you need to customize or modify the SAP ERP integration components.

## SAP ERP Integration with SAP Ariba Sourcing Data Flow

The data flow of SAP ERP with SAP Ariba Sourcing from an SAP RFQ to an award to contract or purchase order in SAP is as follows:

### Request for quotation workflow



1. The SAP ERP user creates an RFQ, specifies it as a `StrategicSourcingDocument` type, and sends it to Ariba Network adapter for SAP NetWeaver .
2. Ariba Network adapter for SAP NetWeaver generates a cXML `QuoteRequest` document through SAP PI. The `QuoteRequest` document contains information that identifies it as a sourcing request. Any supplier data provided is stripped from the document.
3. The Ariba Network adapter for SAP NetWeaver sends the document to SAP Business Network.
4. SAP Business Network routes the document to SAP Ariba Sourcing.
5. SAP Ariba Sourcing generates a sourcing request. The sourcing request contains header-level data, line-level data, and any attachments received from the cXML document.
6. The sourcing request is routed to the appropriate sourcing manager based on the header fields such as Commodity, Region, Department, and so on.

### Note

Effective from cloud integration release 9.0 (HF4), RFQ **Ship-to** address supports region description.

7. The sourcing manager reviews and approves the sourcing request and decides the appropriate template or method for sourcing the items.
8. The sourcing manager creates the sourcing project as a sub-project of the sourcing request and publishes the event.
9. Suppliers bid for the event and after bidding is complete, the event is awarded to one or more suppliers.

### Note

The fields **Document Type** and **Document Category**, which are selected in SAP Ariba Sourcing during award creation, determines the type of follow-on document and its category to be created in SAP ERP from the award. The **Document Type** specifies the follow-on document created from the sourcing project. The options are **Purchase Order**, **Contract**, or **Scheduling Agreement**. The **Document Category** specifies the category of the chosen **Document Type** and can be **NB Standard Purchase Order**, **WK Value Contract**, **FO Framework order**, or **MK Quantity Contract**. The **Document Category** for a **Scheduling Agreement** document type can be **LP Scheduling Agr. w/o release doc.** or **LPA Scheduling Agr. with release doc..**

When a buyer receives an award (QuoteMessage) from SAP Ariba Sourcing, the award contains the follow-on document type and document category information. Ariba Network adapter for SAP NetWeaver creates a purchase order, framework order, contract, or scheduling agreement based on the document type and document category available in the award (QuoteMessage).

Ariba Network adapter for SAP NetWeaver creates the purchase order of Framework order type based on the document category available in the award. If the award contains the reference document type as framework order and the document category as FO, Ariba Network adapter for SAP NetWeaver creates a purchase order of Framework order type with the **Validity Start** and **Validity End** dates on the SAP ERP system. The contract that Ariba Network adapter for SAP NetWeaver creates against the award also contains the **Validity Start** and **Validity End** date information.

The QuoteRequest and QuoteMessage documents store the **Validity Start** and **Validity End** dates as an extrinsic element in the header section. This feature is only supported on SAP Ariba cloud integration release 9.0 HF19 and later.

10. SAP Ariba Sourcing sends the award information to Ariba Network adapter for SAP NetWeaver as one or more cXML QuoteMessage documents. Each QuoteMessage document contains detailed information about a winning bid and a supplier.
11. Ariba Network adapter for SAP NetWeaver determines if a QuoteMessage document is intended for a purchase order, framework order, or an outline agreement (value or quantity contract), and routes the document to the appropriate function module in SAP ERP.
12. SAP ERP generates a purchase order, framework order, or contract for each document it receives.

## About the SAP ERP RFQ Process

SAP ERP enables users to create an RFQ with transaction codes `me41` or `me41n` and specifying the document type as `StrategicSourcingDocType`.

Users can create RFQs in SAP ERP from a purchase requisition, from scratch, or from an existing ERP contract. To generate a sourcing request, an RFQ created in SAP ERP must be defined as a Strategic Sourcing document

type. SAP requires a mandatory vendor field in RFQs, so a placeholder supplier is provided for strategic sourcing documents. Strategic sourcing documents are converted by the Ariba Network adapter for SAP NetWeaver into a cXML `quoteRequest` document, and the placeholder vendor information is automatically discarded during conversion.

### Note

If users create a custom `StrategicSourcingDocType` and select that custom document type when creating an RFQ, then they must maintain the same custom document type in SAP PI value mapping.

To support a full range of SAP RFQ features, the cXML `quoteRequest` document contains enhancements to the `quoteRequestHeader` element and the `ItemDetails` element that are specific to RFQs created as Strategic Sourcing document types.

When SAP Business Network receives a cXML `quoteRequest` document, it sends the document to SAP Ariba Sourcing for processing. SAP Ariba Sourcing creates a sourcing request workspace from the cXML request. The sourcing request contains header level data and line items. A Sourcing Manager must approve the request. A full sourcing project or quick event can be created from the sourcing request after approval.

You can create, modify and cancel sourcing requests, including deletion of line items. Processing of request changes, line item deletion, and cancellations is handled in SAP Ariba Sourcing according to the state of the sourcing request in SAP Ariba Sourcing at the time of the deletion or cancellation.

## Support for Text Descriptions at the Header and Line-Item Level for Internal and External Users

This feature is only supported on SAP Ariba cloud integration release 9.0 HF19 or later. If you are an existing user using SAP Ariba cloud integration release 9.0, ensure that you import the files from release 9.0 HF19 or later.

Buyers using Ariba Network adapter for SAP NetWeaver can create a request for quotation (RFQ) on the SAP ERP system and send the text descriptions at the header-level and line-item level for internal and external users. Ariba Network adapter for SAP NetWeaver sends the text for both internal and external user in separate categories on the SAP ERP system.

If the buyer creates a request for quotation against a purchase requisition, the text description for both the internal and external users available in the purchase requisition appears in the request for quotation.

Buyers can view the text description marked as internal user at the header-level and line-item level on the SAP ERP system. Suppliers can view the text description marked as external user at the header-level and line-item level on SAP Business Network and SAP Ariba Sourcing.

The `QuoteRequest` document stores the text description for both the external and internal users grouped together as individual extrinsic elements.

The table `/ARBA/RFQ_TEXTS` is available for buyers to categorize the long text description specified at the header-level and line-item level for internal and external users in the Request for Quotation. Buyers need to maintain the text ID for the long text description for both internal and external users in the table, `/ARBA/RFQ_TEXTS` on their SAP ERP system. Each of the long text description should be marked for internal or external users. Additionally, buyers need to maintain the text IDs for each of the long text descriptions in the **Define Texts for Request for Quotations** SPRO configuration. Ariba Network adapter for SAP NetWeaver uses the filtering logic in the function module `/ARBA/RFQ_GET_DETAILS` based on the text entries maintained in the table, `/ARBA/RFQ_TEXTS`.

## Limitation

Although Ariba Network adapter for SAP NetWeaver sends the header-level and line-item level text description, users on SAP Ariba Sourcing can only view the text descriptions for internal and external users at the line-item level. SAP Ariba Sourcing does not allow users to view the text descriptions for internal and external users at the header level.

## Related Information

For more information about modifying and canceling sourcing requests, see [Data Flow for Update and Delete Requests Between SAP Ariba Sourcing and SAP ERP \[page 82\]](#)

For more information about cXML enhancements to `QuoteRequest`, see [cXML solutions guide](#).

# About SAP ERP and SAP NetWeaver PI Features for RFQ and Award Integration

The SAP ERP custom SAP Ariba segment, `/ARBA/HEADER`, includes descriptions of purchasing group, purchasing organization, company code, and payment terms. The `/ARBA/RFQ_GET_DETAILS` function module provides the necessary data for these description fields.

At the item level in the `ORDERS05 IDOC`, the segment `/ARBA/RFQITEM` provides description fields for material code, incoterms, and plant. These objects are available when you import the necessary transports into the Ariba Network adapter for SAP NetWeaver and install the RFQ creation and cancellation enhancements in SAP ERP.

The Ariba Network adapter for SAP NetWeaver routes a `QuoteMessage` document to the appropriate RFC function module in SAP ERP based on two cXML extrinsics, `DocumentType` and `DocumentCategory` at the header level in the cXML element `QuoteMessageHeader`.

The adapter includes contract-specific operation and message mappings. The `MIOut_AsyncQuoteMessage_cXML` service interface maps this information from the extrinsics passed in the `QuoteMessage` cXML to SAP.

For more information about the cXML extrinsics that support `QuoteRequest` and `QuoteMessage` documents, see [QuoteRequest Documents for SAP Ariba Sourcing Integration \[page 83\]](#) and [QuoteMessage Documents for SAP Ariba Sourcing Integration \[page 91\]](#).

The following SAP ERP features support the creation of an SAP ERP PO or outline agreement based on document information received from the Ariba Network adapter for SAP NetWeaver, including SAP-specific data passed from the adapter to SAP ERP. These features also provide support for mapping SAP Ariba Sourcing pricing conditions to SAP ERP pricing conditions.

- Function module `/ARBA/QUOTE` contains logic for handling data passed from the adapter to SAP ERP.
- Function module `/ARBA/QUOTE` provides support for mapping and SAP Ariba Sourcing pricing conditions to SAP ERP pricing conditions.
- Function module `/ARBA/QUOTE` contains logic to route to Spot Quote or to a sourcing event..



- A table, database table, and class support mapping of SAP Ariba Sourcing pricing conditions to SAP ERP pricing conditions.
- Function module `/ARBA/CONTRACT_UPDATE` contains logic to create a purchasing contract based on a `QuoteMessage` received from SAP Business Network.
- The `/ARBA/MESSAGE` class contains error messages for display during error handling.

## About SAP ERP Contract, Scheduling Agreement, and Purchase Order Creation

SAP Ariba Sourcing generates one or more awards from winning bids, creates cXML `QuoteMessage` documents for each award, and sends them to Ariba Network adapter for SAP NetWeaver. In SAP Ariba Sourcing when a `QuoteMessage` document is created for an award, two extrinsics in the `QuoteMessageHeader` identify the award as a purchase order, value contract, quantity contract, or scheduling agreement. Ariba Network adapter for SAP NetWeaver parses the extrinsics to route the `QuoteMessage` document to SAP ERP.

Ariba Network adapter for SAP NetWeaver determines if a `QuoteMessage` document is for a purchase order, contract, or scheduling agreement, and routes the document to the appropriate SAP ERP RFC to generate a purchase order, contract, or scheduling agreement.

If a `QuoteMessage` is for a purchase order, the adapter routes it to RFC `/ARBA/QUOTE` for processing. If the `QuoteMessage` is for a contract, the adapter routes it to RFC `/ARBA/CONTRACT_UPDATE`.

On creating the purchase order, framework order, contract, or scheduling agreement, Ariba Network adapter for SAP NetWeaver sends a confirmation message to SAP Ariba Sourcing. Buyers need to maintain the parameter, `QUOTE` in the `/ARBA/PARAM` table. For more information, see [Maintaining the Parameter for Confirmation Messages to SAP Ariba Sourcing \[page 23\]](#).

The confirmation message contains the following information:

- `contractID`
- The `contractID` attribute stores the `QuoteID` value.
- For purchase orders created on SAP ERP, the domain attribute for the `IdReference` identifier element stores the `SAPPurchaseOrderId` value.
- For contracts created on SAP ERP, the domain attribute for the `IdReference` identifier element stores the `SAPAgreementID` value.
- `contractDate`
- `SourcingEventId`
- `VendorId`
- Status code for the award received. A status code of 200 when received successfully or a status code of 503 when there is a failure.
- Status text for success or failure

Ariba Network adapter for SAP NetWeaver sends a confirmation message for contracts created as follows:

- If you are using SAP ERP 6.0 EHP0 to EHP3, Ariba Network adapter for SAP NetWeaver sends the `QuoteMessageConfirmation` message. The `QuoteMessageConfirmation` is applicable for purchase order, framework order, contract, or scheduling agreement containing material items using SAP ERP 6.0 EHP0 to EHP3.

- If you are using SAP ERP 6.0 EHP4 or above, Ariba Network adapter for SAP NetWeaver sends the `PurchasingContractConfirmation` message. This confirmation message is applicable for contracts containing service specification.

## Support for the Price Unit Field Information

Buyers can create purchase orders, contracts, and scheduling agreements containing the price unit of line items that are priced in a large quantity. This feature is only supported on SAP Ariba cloud integration release 9.0 HF19 and later. If you are an existing user using SAP Ariba cloud integration release 9.0, ensure that you import the files from release 9.0 HF19 and later.

When Ariba Network adapter for SAP NetWeaver creates a purchase order, contract, or scheduling agreement against the award that suppliers send from SAP Ariba Sourcing, Ariba Network adapter for SAP NetWeaver processes the line item price based on the price unit of the item. The **Net price** field on the SAP ERP system stores the price for the price unit based on the quantity. The **PO Quantity** field stores the quantity for the price unit.

For example, a supplier prices pencils for a quantity of 100 numbers as \$ 12.50. The price of each pencil is \$0.1250. Pricing this per unit of 100 results in accurate pricing of the item.

The `QuoteMessage` document stores the price unit information as an extrinsic element.

## Data Flow for Update and Delete Requests Between SAP Ariba Sourcing and SAP ERP

If the SAP ERP user updates the RFQ, SAP Ariba Sourcing receives a cXML update or delete `QuoteRequest` document (the `type` is `update` or `delete`) depending on the number of items remaining in the RFQ. If all items are deleted (no items remain), SAP Ariba Sourcing receives a cXML delete `QuoteRequest`; if items are only updated or only some items are deleted (items remain in the RFQ), SAP Ariba Sourcing receives a cXML update `QuoteRequest` document.

SAP Ariba Sourcing receives a cXML update or delete `QuoteRequest` document through the routing method used for the initial `QuoteRequest` document: the ERP sends the request to the SAP Business Network adapter, which generates and sends a cXML `QuoteRequest` document to SAP Business Network; SAP Business Network routes the document to SAP Ariba Sourcing.

- SAP Ariba Sourcing processes update `QuoteRequest` documents as follows:
  - If an update `QuoteRequest` is received and the sourcing request has not been approved, SAP Ariba Sourcing makes the requested changes directly to the line items in the sourcing request and sends a notification to the active team members of the sourcing request.
  - If an update `QuoteRequest` is received and the sourcing request is in the canceled state with no corresponding sourcing event, SAP Ariba Sourcing rejects the cXML request.
  - If an update `QuoteRequest` is received and the sourcing request is approved and the event is in any state other than awarded or closed, SAP Ariba Sourcing creates a new version of the sourcing event, stores the updates, and sends an e-mail notification to the team members. A team member can choose to accept the changes (stored updates) or ignore them.

- If an update `QuoteRequest` is received and the event is in the awarded or closed state, SAP Ariba Sourcing rejects the cXML request and sends a notification to active team members of the event.

### Note

The currency in the update request must be the same as the currency specified in the published event. Otherwise, an error message is displayed. You can configure SAP Ariba Sourcing to reject the update requests where currency is different from that specified in the published event by enabling the parameter `Application.AQS.RejectUpdateSourcingRequestwithCurrencyMismatch`. Contact your Designated Support Contact to enable the parameter.

- SAP Ariba Sourcing processes delete `QuoteRequest` documents as follows:
  - If a delete `QuoteRequest` is received and the sourcing request has not been approved or it has been approved but no sourcing event has been created, SAP Ariba Sourcing cancels the sourcing request and sends a notification to active team members of the sourcing request.
  - If a delete `QuoteRequest` is received and the sourcing request is approved and the event is in any state other than awarded or closed, SAP Ariba Sourcing sends an e-mail notification to the sourcing event team members indicating that a request to cancel the sourcing event was sent from SAP ERP.
  - If a delete `QuoteRequest` is received and the event is in the awarded or closed state, SAP Ariba Sourcing rejects the cXML request and sends a notification to active team members of the event.

## QuoteRequest Documents for SAP Ariba Sourcing Integration

A `quoterequest` document is sent to SAP Ariba Sourcing; SAP Ariba Sourcing uses it to create a sourcing request.

A `quoteRequest` document contains a `QuoteRequest` element. The following example shows the basic structure of a `QuoteRequest` element:

```
<QuoteRequest>
  <QuoteRequestHeader>

    header information
  </QuoteRequestHeader>
  <QuoteItemOut>

    QuoteItemOut information
  </QuoteItemOut>
</QuoteRequest>
```

## QuoteRequestHeader for SAP Ariba Sourcing Integration


The `QuoteRequestHeader` includes general information about the request for quotations.

`QuoteRequestHeader` has the following attributes:

Attribute Name	Description
<code>requestID</code>	Unique internal number specifying the buyer's system ID for the request for quotations. This field is mandatory.
<code>requestDate</code>	The date and time of the <code>QuoteRequest</code> document. This field is mandatory.
<code>requestVersion</code>	The version number of the <code>QuoteRequest</code> in the buyer's system. This is applicable when there is a change to the original <code>QuoteRequest</code> . The version number for the original <code>QuoteRequest</code> document should be 1 and must increment by 1 for each subsequent version.  For example, the second version of the <code>QuoteRequest</code> must be 2.
<code>type</code>	Type of <code>QuoteRequest</code> , one of: <ul style="list-style-type: none"><li>• new</li><li>• update</li><li>• delete</li></ul> The default value is "new".
<code>currency</code>	The currency in which the request for quotation is to be bid. This field is mandatory.
<code>templateName</code>	The template used by the sourcing application. The template can outline the terms and conditions regarding the details for a request for quotation sent between the buyer and sourcing application.
<code>openDate</code>	The date the <code>quoteRequest</code> is open for suppliers to respond.
<code>closeDate</code>	The date the <code>quoteRequest</code> is closed for supplier responses.
<code>previewDate</code>	The date the <code>quoteRequest</code> is available to suppliers.

The `QuoteRequestHeader` element has the following elements:

Element Name	Description
<code>Name</code>	The name of the <code>QuoteRequest</code> . This field is optional.
<code>MasterAgreementIDinfo</code>	The ID number of the buyer for the corresponding master agreement of the contract or release order. This field is optional.

Element Name	Description
SupplierSelector	<p>Defines the supplier selection criteria for a QuoteRequest. This field is optional.</p> <p>The SupplierSelector element has the SupplierID element with the following mandatory attribute:</p> <ul style="list-style-type: none"> <li>• <b>MatchingType:</b> Specifies how suppliers are matched for a QuoteRequest. The SupplierSelector attribute can have the following values:</li> <li>• <b>InvitationOnly:</b> Suppliers are matched with the suppliers that have been invited to join the network.</li> <li>• <b>approvedVendorOnly:</b> Suppliers from the vendor master list. However, the sourcing application may filter the suppliers that can bid based on the product or service category and territory matching rules.</li> <li>• <b>public:</b> Any public supplier. The supplier can also exist in the vendor master list.</li> </ul> <p>The SupplierSelector can contain SupplierInvitation elements, where each SupplierInvitation element specifies a supplier (participant) invited to the event. Each SupplierInvitation element contains the following child elements:</p> <ul style="list-style-type: none"> <li>• OrganizationID</li> <li>• Correspondent</li> <li>• MasterAgreementIDInfo</li> <li>• Extrinsic</li> </ul> <p>For more information, see the section <i>Request for Quotations &gt; QuoteRequestHeader &gt; SupplierSelector</i> in <a href="http://xml.xml.org/current/cXMLReferenceGuide.pdf">http://xml.xml.org/current/cXMLReferenceGuide.pdf</a> .</p>
Total	The total amount of the QuoteRequest. This field is optional.
Description	Description of the QuoteRequest. This field is optional.
ShipTo	The Ship to information for the QuoteRequest. This field is optional.
Contact	The contact information for the request. There may be more than one Contact element. This field is optional.
Extrinsic	Extraneous data specific to the request. There can be more than one Extrinsic element, and there is always one Terms extrinsic.

## QuoteItemOut for SAP Ariba Sourcing Integration

Each QuoteItemOut in a QuoteRequest stores details on a line item.

A QuoteItemOut has attributes, elements, and a Terms extrinsic.

The `QuoteItemOut` element has the following attributes:

Attribute	Description
<code>quantity</code> (required)	The number of items.  If the order type is "blanket" and has supplier and commodity level items, the default value is 1. This quantity is not considered to calculate the subtotal. Instead, the <code>MaxAmount</code> in the <code>BlanketItemDetail</code> is used to indicate any line level amounts.
<code>lineNumber</code>	Line position (counting from 1) of the item in a <code>QuoteRequest</code> . Used to maintain a reference between the items in the document with the type as "new" and "update".
<code>parentLineNumber</code>	Position (counting from 1) of this item's parent in a <code>QuoteRequest</code> . Used to maintain a hierarchical reference between items in documents.
<code>requestedDeliveryDate</code>	The delivery date requested for the line item.
<code>itemClassification</code>	Specifies whether the current line item is "material" or "service".
<code>itemType</code>	Specifies the type of item. Possible values: <ul style="list-style-type: none"> <li><code>composite</code>—Identifies an item group.</li> <li><code>item</code>—Identifies an independent line item.</li> <li><code>lean</code>—Indicates that no child item is expected for the line.</li> </ul>
<code>serviceLineType</code>	Represents the type of the service line. Possible values: <ul style="list-style-type: none"> <li><code>standard</code>—Standard service.</li> <li><code>blanket</code>—Blanket service for which you don't specify a quantity. It is settled as a lump sum.</li> <li><code>contingency</code>—A service that is not absolutely necessary to perform the order.</li> <li><code>openquantity</code>—A service for which the sold-to party requires that the bidder offer the quantity for a specific partial service.</li> <li><code>information</code>—The line type does not describe a service and is for information purposes only.</li> </ul>

`QuoteItemOut` has the following elements:

Element	Description
<code>ItemID</code>	Provides unique identification of an item.
<code>ItemDetail</code> (required)	Contains descriptive information about the item that procurement applications present to users.
<code>ShipTo</code>	The ship to address for a item. <code>ShipTo</code> contains four elements: <code>Address</code> , <code>CarrierIdentifier</code> , <code>TransportInformation</code> , and <code>IdReference</code> .
<code>Shipping</code>	Contains additional information for transportation of the shipment.
<code>Tax</code>	Contains tax information.
<code>SpendDetail</code>	Captures spend detail information.
<code>Total</code>	Contains the total cost for the items in the order, excluding any tax and shipping.
<code>TermsOfDelivery</code>	Specifies the terms of delivery for the ship notice.

Element	Description
ReferenceDocumentInfo	Contains information about a referenced document.
Contact	The contact information for the supplier. Can specify more than one Contact element.
Comments	The Comments element is only used for attaching external files in SAP Ariba Sourcing. Contains comments for the external files attached to this RFQ line item. The Comments element must contain an Attachment element for including external files.
Alternative	Represents an alternative option to service specification lines.
SupplierSelector	Defines the way suppliers are selected for responding to an RFQ. If present, it contains a SupplierInvitation element for each supplier invited submit a response for the item. If absent or if it does not contain SupplierInvitation elements, all suppliers invited to the event are invited to submit a response for the item.

## SAP Service Items and Service Hierarchies (CXML Adapter Version 1.2.034 or Later)

A quoteRequest or quoteMessage document can contain data for SAP service items (SAP Item Category D items) in a service hierarchy.

quoteRequest documents received from SAP and quoteMessage documents sent to SAP have the following items in QuoteItemOut and QuoteItemIn elements for service hierarchies:

- The attribute itemClassification with the value service.
- The itemType attribute, set to composite for service lines and service outlines, or set to item for service specifications.
- The parentLineNumber and lineNumber attributes are used to link parent and child items, such as a parent service line and child service specification. The value of a child's parentLineNumber attribute matches its parent's lineNumber attribute.
- The child element Classification has the attribute code set to Services and the attribute domain set to MaterialGroup. The value of the Classification element is an SAP material group.

The following is an excerpt of a quoteRequest document with 3 QuoteItemOut elements: a service line, service outline, and service specification.

```
<QuoteItemOut itemClassification="service" itemType="composite" quantity="1.000"
requestedDeliveryDate="2017-08-28T07:45:50+05:30" lineNumber="00010">
  <ItemDetail>
    <UnitPrice>
      <Money currency="USD" />
    </UnitPrice>
    <Description xml:lang="en">Services</Description>
    <UnitOfMeasure>SU</UnitOfMeasure>
    <Classification code="Services" domain="MaterialGroup">007</Classification>
  </ItemDetail>
  <ReferenceDocumentInfo lineNumber="00010">
    <DocumentInfo documentType="Requisition" documentID="0010021706">Constant</
DocumentInfo>
  </ReferenceDocumentInfo>
  <Comments xml:lang="en">true </Comments>
</QuoteItemOut>
<QuoteItemOut itemType="composite" quantity="0.000" parentLineNumber="00010"
lineNumber="0000200010">
```

```

    <ItemDetail>
      <UnitPrice>
        <Money currency="USD" />
      </UnitPrice>
      <Description xml:lang="en">Set up Construction site</Description>
      <UnitOfMeasure/>
      <Classification domain="MaterialGroup" />
    </ItemDetail>
    <ReferenceDocumentInfo lineNumber="00010">
      <DocumentInfo documentType="RFQ" documentID="6000001310" />
    </ReferenceDocumentInfo>
  </QuoteItemOut>
  <QuoteItemOut itemType="item" quantity="1.000" parentLineNumber="0000200010"
  serviceLineType="standard" lineNumber="1000300010">
    <ItemID>
      <SupplierPartID/>
      <BuyerPartID>0000000000000100000</BuyerPartID>
    </ItemID>
    <ItemDetail>
      <UnitPrice>
        <Money currency="USD" />
      </UnitPrice>
      <Description xml:lang="en">Set up construction site</Description>
      <UnitOfMeasure>SU</UnitOfMeasure>
      <Classification domain="MaterialGroup">007</Classification>
    </ItemDetail>
    <ReferenceDocumentInfo lineNumber="0000300010">
      <DocumentInfo documentType="RFQ" documentID="6000001310" />
    </ReferenceDocumentInfo>
  </QuoteItemOut>

```

## cXML QuoteRequest to SAP Ariba Sourcing Field Mapping

The following tables lists how Term extrinsics specific to cXML QuoteRequest documents created by Ariba Network Adapter for SAP NetWeaver from an SAP ERP RFQ are mapped to corresponding sourcing request fields in SAP Ariba Sourcing.

cXML Header Level Extrinsic Fields with Sample Values	Mapped to Sourcing Request/Sourcing Project	Sample Display Value in SAP Ariba Sourcing
Header level fields	SourcingRequest/SourcingProject	
<Extrinsic name="CompanyCode.Id">100</Extrinsic>	Company Code	100 Acme Inc.
<Extrinsic name="CompanyCode.Name">Acme Inc.</Extrinsic>		
<Extrinsic name="PurchasingOrganization.Id">1001</Extrinsic>	Purchasing Organization	1001 Acme Purchasing Organization
<Extrinsic name="PurchasingOrganization.Name">Acme Purchasing Organization</Extrinsic>		



cXML Header Level Extrinsic Fields with Sample Values	Mapped to Sourcing Request/Sourcing Project	Sample Display Value in SAP Ariba Sourcing
<Extrinsic name="PurchasingGroup.Id">10001</Extrinsic>	Purchasing Group	10001 Acme Purchasing Group
<Extrinsic name="PurchasingGroup.Name">Acme Purchasing Group</Extrinsic>		
<Extrinsic name="PaymentTerms.Id">10N</Extrinsic>	Payment Terms	10N Due on 10th day of next Month
<Extrinsic name="PaymentTerms.Name">Due on 10th day of next Month</Extrinsic>		
<Extrinsic name="TargetValue">10000</Extrinsic>	Baseline Spend (combined with the currency header element.	10,000 USD
cXML Line Item Level Extrinsic Fields with Sample Values	Mapped to Sourcing Request/Sourcing Project Item Field	Sample Display Value in SAP Ariba Sourcing
Line item level fields	RFXItem	
<Extrinsic name="Plant.Id">90</Extrinsic>	Plant	90 Bangalore
<Extrinsic name="Plant.Name">Bangalore</Extrinsic>		
<Extrinsic name="MaterialGroup.Id">29</Extrinsic>	Material Group	29 Computers
<Extrinsic name="MaterialGroup.Name">Computers</Extrinsic>		
<Extrinsic name="ItemCategory">Standard Item</Extrinsic>	Item Category	Standard Item
<Extrinsic name="MaterialCode.Id">992</Extrinsic>	Material Code	992 ABC MaterialCode
<Extrinsic name="MaterialCode.Name">ABC MaterialCode</Extrinsic>		

cXML Line Item Level Extrinsic Fields with Sample Values	Mapped to Sourcing Request/Sourcing Project Item Field	Sample Display Value in SAP Ariba Sourcing
<Extrinsic name="Incoterms.Id">FAS</ Extrinsic>	Incoterms	FAS Free Alongside Ship
<Extrinsic name="Incoterms.Name">Free Alongside Ship</Extrinsic>		
<Extrinsic name="RequisitionId">PR1234 </Extrinsic>	Requisition ID	PR1234
<Extrinsic name="RFQId">RFQ2345</ Extrinsic>	RFQ ID	RFQ2345
<Extrinsic name="RequisitionLineItemNu mber">10</Extrinsic>	Requisition Item Number	10
<Extrinsic name="RFQLineItemNumber">3< </Extrinsic>	RFQ Item Number	3

## Additional Mapping

The `Plant.Id` and `Plant.Name` extrinsics can be mapped to the **Region** value for items using the **Import Region-To-Plant Mappings** task. For more information, see [Mapping SAP Plant Values to SAP Ariba Region Values](#).

The `itemClassification` element can be mapped to the **Commodity** value for items by defining commodity code mapping. For more information, see [Commodity Codes and Commodity Code Mappings Definitions](#).

You can configure SAP Ariba to populate the **Regions** and **Commodity** project header fields in sourcing requests with **Region** and **Commodity** values from line items. For more information, see [Rolling up line-level regions and commodity values to header Regions and Commodity fields](#) in [Event Management Guide](#).

Extrinsics can be mapped to sourcing request and event terms using the **ERP field mapping** field in templates.

Extrinsics mapped to event terms using the **ERP field mapping** field and the following extrinsics can be mapped as responses to questions in sourcing request and event content:

- Country of OriginCode
- Tax Code
- PriceDate Category (pricing date category)
- Standard Order Quantity
- Minimum Order Quantity
- Inco Term 1 (International Commercial Terms, Incoterms, specified using a three-letter ID)
- Inco Term 2 (Incoterms specified using a text description)

## Related Information

[Creating Sourcing Request Templates for ERP Integration \[page 65\]](#)

[cXML QuoteRequest to SAP Ariba Sourcing Field Mapping \[page 88\]](#)

## QuoteMessage Documents for SAP Ariba Sourcing Integration

SAP Ariba Sourcing sends quoteMessage documents with pricing or award information from an event.

A quoteMessage contains a QuoteMessage element. The QuoteMessage element has the following elements:

- QuoteMessageHeader
- QuoteItemIn

## QuoteMessageHeader for SAP Ariba Sourcing

QuoteMessageHeader element provides general information about the QuoteMessage.

The cXML QuoteMessage document that describes an award document received in response to an SAP RFQ must include the Currency attribute in the QuoteMessageHeader element. The Currency attribute defines the currency used in the sourcing project. Currency can be defined using ISO or non-ISO currency codes.

The QuoteMessageHeader has the following additional attributes:

Attribute Name	Description
Type	The supplier action on the QuoteRequest. Can have one of the following values: <ul style="list-style-type: none"><li>• accept</li><li>• reject</li><li>• update</li><li>• final</li><li>• award</li></ul> This field is mandatory.
quoteID	Unique ID of the quote. This field is mandatory.
quoteDate	Date on which the quote was submitted. This field is mandatory.

The `QuoteMessageHeader` header has the following elements:

Element Name	Description
<code>SupplierID</code>	The unique identification of the supplier. There can be more than one <code>SupplierID</code> . This field is mandatory.
<code>Total</code>	The total amount of the <code>QuoteRequest</code> .
<code>ShipTo</code>	The <code>ShipTo</code> address from the <code>QuoteRequest</code> .
<code>Contact</code>	The Contact information for the <code>QuoteRequest</code> .
<code>QuoteRequestReference</code>	<p>Contains the <code>RequestID</code> and <code>requestDate</code>.</p> <p><code>QuoteRequestReference</code> has the following attributes:</p> <ul style="list-style-type: none"> <li><code>requestID</code>: Unique internal number specifying the buyer's system ID for the request for quotations. This attribute is mandatory.</li> <li><code>requestDate</code>: The data and time of the <code>QuoteRequest</code> document</li> </ul> <p><code>QuoteRequestReference</code> has the following element:</p> <ul style="list-style-type: none"> <li><code>DocumentReference</code>: indicates when a document type is update or delete. It refers to the most recent <code>quoteRequest</code> document.</li> </ul>
<code>Comments</code>	Contains comments about the request. This field is optional.
<code>Extrinsic</code>	Contains extrinsic information. There may be more than one <code>Extrinsic</code> element, but there is always a <code>Terms</code> extrinsic.

## Participant Responses to Event Questions

Participant responses to event questions are included in the `Terms` extrinsic within the `QuoteMessageHeader`. The response is linked to its corresponding question by its `name` attribute, which is set to the value of the **ERP field mapping** field for the question.

SAP Ariba Sourcing can send the following types of question responses in award data:

- **Attachment.** The attachment is sent as part of a Multipurpose Internet Mail Extensions (MIME) envelope with the `QuoteMessage` document. The extrinsic for the response has a child `Attachment` element, which contains a child `URL` element with a content ID (`Content-ID` or `CID`) for the attachment. The corresponding attachment contains the same `CID` in its header.

For example, a `QuoteMessageHeader` contains the following elements:

```
<Extrinsic name="Terms">
  <Extrinsic name="SupplierDesignSpecifications">
    <Attachment>
      <URL>cid:0</URL>
```

The content ID for the attachment is 0; the MIME header for the corresponding attachment contains the following entry:

`Content-ID<0>`

For more information about attachments in cXML documents, see [cXML Reference Guide](#) .

### Restriction

SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support responses with type Attachment.

- **Date.** SAP Ariba Sourcing sends the response in one of the following formats:

*YYYY-MM-DDThh:mm:ss+hh:mm*

*YYYY-MM-DDThh:mm:ss-hh:mm*

Where:

- *YYYY* specifies the year
- *MM* specifies the month
- *DD* specifies the day
- *T* is a literal value that specifies the start of the time section
- *hh* specifies the hour
- *mm* specifies the minutes
- *ss* specifies the seconds
- *+hh:mm* specifies a time zone with a positive offset from UTC (Coordinated Universal Time)
- *-hh:mm* specifies a time zone with a negative offset from UTC (Coordinated Universal Time)

For example:

2019-05-25T00:00:00-08:00

The date format is a restricted subset of ISO 8601. The "Z" time zone designator is not allowed.

- **Decimal Number**
- **Money.** SAP Ariba Sourcing sends the response in the following format:  
*amount currencyID*  
Where *amount* is a numeric amount and *currencyID* is the ID for the currency type. For example, 100 USD.
- **Percentage:** The response is sent with the numeric value only (no percent sign). For example, 99.
- **Quantity**
- **Text (single line limited)**
- **Text (single line)**
- **Text (multiple lines)**
- **Whole Number**
- **Yes/No** (Boolean). The response is sent as Yes or No.

## QuoteItemIn **for SAP Ariba Sourcing Integration**

QuoteItemIn describes supplier action on a line item in the QuoteMessage. A QuoteMessage may contain multiple QuoteItemIn definitions.

The QuoteItemIn element has attributes, elements, and a Terms extrinsic.

The `QuoteItemIn` element has the following attributes:

Attribute Name	Description
Type	<p>The supplier action on the <code>QuoteRequest</code>. Can have one of the following values:</p> <ul style="list-style-type: none"><li>• accept</li><li>• reject</li><li>• update</li><li>• final</li><li>• award</li></ul> <p>This field is mandatory.</p>
Quantity	<p>The number of items.</p> <p>If the order type is "blanket" and has supplier and commodity level items, the default value is "1." This quantity is not considered to calculate the subtotal. Instead, the <code>MaxAmount</code> in the <code>BlanketItemDetail</code> is used to indicate any line level amounts.</p> <p>This field is mandatory.</p>
lineNumber	<p>Line position of the item in the <code>QuoteRequest</code>. Used to maintain a reference between the items in the document with the type as "new" and "update."</p> <p>This field is optional.</p>
requestedDeliveryDate	<p>The delivery date requested for the line item.</p> <p>This field is optional.</p>
rank	<p>The rank of the bid.</p>

A `QuoteItemIn` has the following elements:

- ItemID
- ItemDetail
- ShipTo
- Shipping
- Tax
- SpendDetail
- Contact
- Comments

# SAP Ariba Sourcing Field to cXML QuoteMessage Mapping

The following tables describes how data fields in SAP Ariba Sourcing awards are mapped to Term extrinsics in cXML QuoteMessage documents sent to Ariba Network Adapter for SAP NetWeaver to generate purchase orders, contracts, and scheduling agreements in SAP ERP.

Sample Display Value in SAP Ariba Sourcing	Mapped from Sourcing Request/Sourcing Project	Mapped to cXML Extrinsic Header Level Fields
100 Acme Inc.	Company Code	<Extrinsic name="CompanyCode.Id">100</Extrinsic>
		<Extrinsic name="CompanyCode.Name">Acme Inc.</Extrinsic>
1000 Acme Purchasing Organization	Purchasing Organization	<Extrinsic name="PurchasingOrganization.Id">1001</Extrinsic>
		<Extrinsic name="PurchasingOrganization.Name">Acme Purchasing Organization</Extrinsic>
10001 Acme Purchasing Group	Purchasing Group	<Extrinsic name="PurchasingGroup.Id">10001</Extrinsic>
		<Extrinsic name="PurchasingGroup.Name">Acme Purchasing Group</Extrinsic>
10N Due on 10th day of next Month	Payment Terms	<Extrinsic name="PaymentTerms.Id">10N</Extrinsic>
		<Extrinsic name="PaymentTerms.Name">Due on 10th day of next Month</Extrinsic >
NB Standard Purchase Order/MK Quantity Contract/WK Value Contract/LP Scheduling Agreement/LPA Scheduling Agreement	Document Category	<Extrinsic name="DocumentCategory">WK</Extrinsic>
Purchase Order/Contract/Scheduling Agreement	Document Type	<Extrinsic name="DocumentType">PurchaseOrder</Extrinsic>

Sample Display Value in SAP Ariba Sourcing	Mapped from Sourcing Request/Sourcing Project	Mapped to cXML Extrinsic Item Level Fields
90 Bangalore	Plant	<Extrinsic name="Plant.Id">90</ Extrinsic>
		<Extrinsic name="Plant.Name">Bangalore </Extrinsic>
29 Computers	Material Group	<Extrinsic name="MaterialGroup.Id">29</ Extrinsic>
		<Extrinsic name="MaterialGroup.Name">C omputers</Extrinsic>
Standard Item	Item Category	<Extrinsic name="ItemCategory">Standar d Item</Extrinsic>
992 ABC MaterialCode	Material Code	<Extrinsic name="MaterialCode.Id">992</ Extrinsic>
		<Extrinsic name="MaterialCode.Name">AB C MaterialCode</Extrinsic>
FAS Free Alongside Ship	Incoterms	<Extrinsic name="Incoterms.Id">FAS</ Extrinsic>
		<Extrinsic name="Incoterms.Name">Free Alongside Ship</Extrinsic>
PR1234	Requisition ID	<Extrinsic name="RequisitionId">PR1234 </Extrinsic>
RFQ2345	RFQ ID	<Extrinsic name="RFQId">RFQ2345</ Extrinsic>
10	Requisition Item Number	<Extrinsic name="RequisitionLineItemNu mber">10</Extrinsic>
3	RFQ Item Number	<Extrinsic name="RFQLineNumber">3</ Extrinsic>



Sample Display Value in SAP Ariba Sourcing	Mapped from Sourcing Request/Sourcing Project	Mapped to cXML Extrinsic Item Level Fields
10,000 USD	Baseline Spend	<Extrinsic name="TargetValue">10000</ Extrinsic>

## Example: QuoteMessage Extrinsics for SAP Ariba Sourcing Integration with SAP ERP

The following example shows both header level and line item level extrinsics used in a quoteMessage document for integration with SAP ERP.

```
<QuoteMessage>
  <QuoteMessageHeader currency="USD" quoteDate="2015-03-12T01:05:53-08:00"
    quoteID="QA170" type="award" xml:lang="en">
    <OrganizationID>
      <Credential domain="NetworkID">
        <Identity>AN10000000123</Identity>
      </Credential>
    </OrganizationID>
    <Total>
      <Money currency="USD">5000.00</Money>
    </Total>
    <QuoteRequestReference requestDate="2015-03-12T00:42:06-08:00"
      requestID="6000000174"/>
    <Extrinsic name="Terms">
      <Extrinsic name="CompanyCode.Id">3000</Extrinsic>
      <Extrinsic name="CompanyCode.Name">BestRun USA</Extrinsic>
      <Extrinsic name="PurchasingOrganization.Id">3000</Extrinsic>
      <Extrinsic name="PurchasingOrganization.Name">PurchOrg US</Extrinsic>
      <Extrinsic name="PurchasingGroup.Id">001</Extrinsic>
      <Extrinsic name="PurchasingGroup.Name">Dickens, B.</Extrinsic>
      <Extrinsic name="PaymentTerms.Id">0001</Extrinsic>
      <Extrinsic name="PaymentTerms.Name">Quick Pay</Extrinsic>
      <Extrinsic name="DocumentType">PurchaseOrder</Extrinsic>
      <Extrinsic name="DocumentCategory">NB</Extrinsic>
    </Extrinsic>
  </QuoteMessageHeader>
  <QuoteItemIn lineNumber="10" quantity="500" rank="1"
    requestedDeliveryDate="2015-03-27T03:55:00-07:00" type="award">
    <ItemID>
      <SupplierPartID/>
      <SupplierPartAuxiliaryID/>
      <BuyerPartID/>
    </ItemID>
    <ItemDetail>
      <UnitPrice>
        <Money currency="USD">10.00</Money>
      </UnitPrice>
      <Description xml:lang="en">ERP-10810</Description>
      <UnitOfMeasure>BX</UnitOfMeasure>
      <Classification domain="unspsc">43211503</Classification>
      <ManufacturerPartID/>
      <ManufacturerName/>
      <URL/>
      <LeadTime/>
      <Extrinsic name="Terms">
        <Extrinsic name="Plant.Id">3000</Extrinsic>
```

```

    <Extrinsic name="Plant.Name">New York</Extrinsic>
    <Extrinsic name="ItemCategory">0</Extrinsic>
    <Extrinsic name="MaterialGroup.Id">00801</Extrinsic>
    <Extrinsic name="MaterialGroup.Name">Disposable paper</Extrinsic>
    <Extrinsic name="Incoterms.Id">CFR</Extrinsic>
    <Extrinsic name="Incoterms.Name">Incoterms for RFQ</Extrinsic>
    <Extrinsic name="MaterialCode.Id"/>
    <Extrinsic name="MaterialCode.Name"/>
    <Extrinsic name="RequisitionId">0010017303</Extrinsic>
    <Extrinsic name="RFQId">6000000174</Extrinsic>
    <Extrinsic name="RequisitionLineNumber">00010</Extrinsic>
    <Extrinsic name="RFQLineNumber">00010</Extrinsic>
  </Extrinsic>
</ItemDetail>
<Total>
  <Money currency="USD">5000.00</Money>
</Total>
</QuoteItemIn>
</QuoteMessage>



```

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