SAP Ariba

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SAP Ariba Product Sourcing Guide

SAP Strategic Sourcing Suite

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Content

SAP Ariba Product Sourcing Guide

This guide is for SAP Ariba buyer users and administrators responsible for integrating bill of materials (BOM) and material master data, managing materials, and creating and awarding sourcing events for direct materials.

After buyers integrate or upload their bill of materials (BOM) and material data, they create SAP Ariba Sourcing events to collect pricing information. Buyers can then export the pricing information to their external system, which can then be used to create purchasing information records (PIRs) or analytical reports.

This guide applies to:

- SAP Ariba Strategic Sourcing Suite

Related Guides

Event Management Guide

RFQ and Award Integration with SAP Ariba Sourcing

Event Rules Reference Guide

Product Sourcing Overview

Product Sourcing Features

Product sourcing features of SAP Ariba Strategic Sourcing Suite provide a layer of innovations over SAP Ariba Sourcing to enable direct customers, customers who are sourcing materials for manufacturing a product, to collect and track material prices for a given period of time and calculate and track rollup costs for BOMs.

Product sourcing features also provide users a holistic view of the materials, a number of action tiles for quick access to various reports and data filters related to BOMs and materials, and the ability to trigger RFx events and generate follow-on documents such as purchasing info records, outline agreements, and contracts.

Product sourcing features are designed for three broad use cases:

- BOM-based product planning and sourcing that provides a cohesive view of various materials and sub-assemblies that form a product and enables users to collect quotes for entire BOMs and view and track rollup costs for BOMs.
- Materials-only sourcing that enables users to import materials from the material master, view the material details, collect prices for materials, and view historical pricing data for the materials.
- Hybrid mode that combines the capabilities of both BOM-based and materials-only modes.

The process of product sourcing is typically driven by product lifecycle management (PLM) processes, customer demand, and material requirements planning (MRP) and the spend towards product sourcing is tracked under the cost of goods sold in the direct spend category.

The following image illustrates how the product sourcing features interact with SAP Ariba Sourcing and external systems such as SAP ERP and PLM systems.

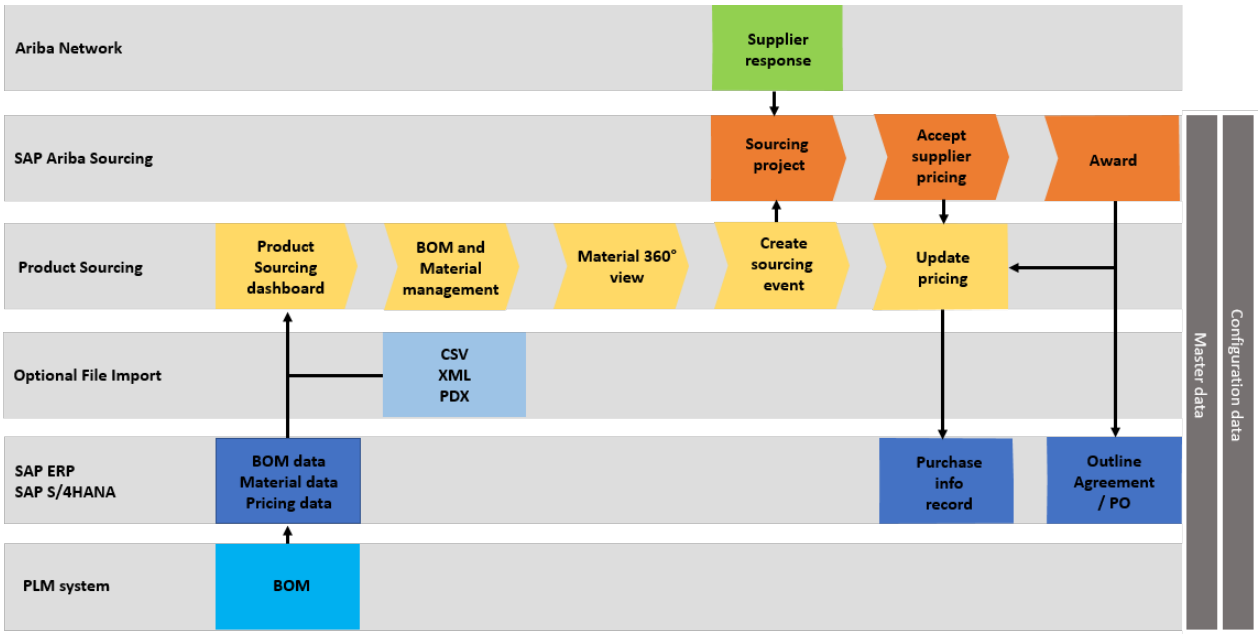


Figure 1: Product Sourcing Flow

At a high level, the illustration shows:

1. Import of BOM data from the PLM system and pricing and material data from an SAP ERP system to product sourcing.
2. Product sourcing features, simple RFx creation, and the sourcing flow.
3. Supplier response to the sourcing event.
4. Price updates and creation of purchasing info record.
5. Creation of awards and corresponding outline agreements or purchase orders.

For more information about the workflow, see Workflow for Product Sourcing Use Cases [page 18].

Product Sourcing Capabilities and Features

The product sourcing features of SAP Ariba Strategic Sourcing Suite provide the following capabilities:

- BOM and material master integration and import
- BOM cost rollup
- BOM comparison
- BOM details view
- Tagging of BOMs and materials for tracking, searching, and filtering
- Ability to create AML split and BOM split
- One-click sourcing for all items in a BOM (BOM Quote)
- Item 360 view for comprehensive information about materials, including cost breakdown data (when cost breakdown feature is enabled)
- Ability to assign owners to materials
- Ability to create simple RFx events, review quotes, and create PIRs

- Ability to view cost breakdown data
- Configurable widgets and action tiles for easy access to various reports, data filters, and advance search results
- Integration options with SAP ERP systems over SAP Ariba Cloud Integration Gateway
- Data export options
- REST APIs for BOM import, material and BOM tagging, and cost breakdown data extraction

Product Sourcing Personas

The product sourcing features are designed for the following three personas:

- **Sourcing ops**–assigns owners to materials, receives quotes, and updates BOM and AML splits.
- **Sourcing manager**–receives quotes, updates BOM and AML splits.
- **Sourcing administrator**–uploads and manages master data, uploads BOM data and historical pricing, and monitors the PIR queue.

To be able to perform the tasks, each of these personas must be part of the user groups that have the necessary permissions. For more information about the user groups and how various personas map into the user groups, see Product Sourcing Personas and User Groups [page 14].

Integration Options for Product Sourcing Features

Product sourcing features are designed to work with various external systems. Integration of product sourcing features with external systems such as SAP ERP, S/4HANA, and PLM systems enable:

- import of master data, material master, AML, and BOM data to product sourcing.
- export of pricing information to SAP ERP through purchasing info record integration.
- end-to-end sourcing integration as part of the SAP Intelligent Enterprise solution.

Product sourcing features support various integration methods including:

- SAP Ariba Cloud Integration Gateway
- SAP Ariba Cloud Integration adapter
- SOAP web service-based integration

For more information about the supported integration methods, see Integration Options for Product Sourcing [page 18].

SAP Ariba Strategic Sourcing Suite

SAP Ariba Strategic Sourcing Suite is a single, integrated solution that covers the end-to-end process for indirect and direct spend categories. The SAP Ariba Strategic Sourcing Suite solution includes:

- SAP Ariba Sourcing

- SAP Ariba Contracts
- SAP Ariba Supplier Lifecycle and Performance
- Product sourcing functionality

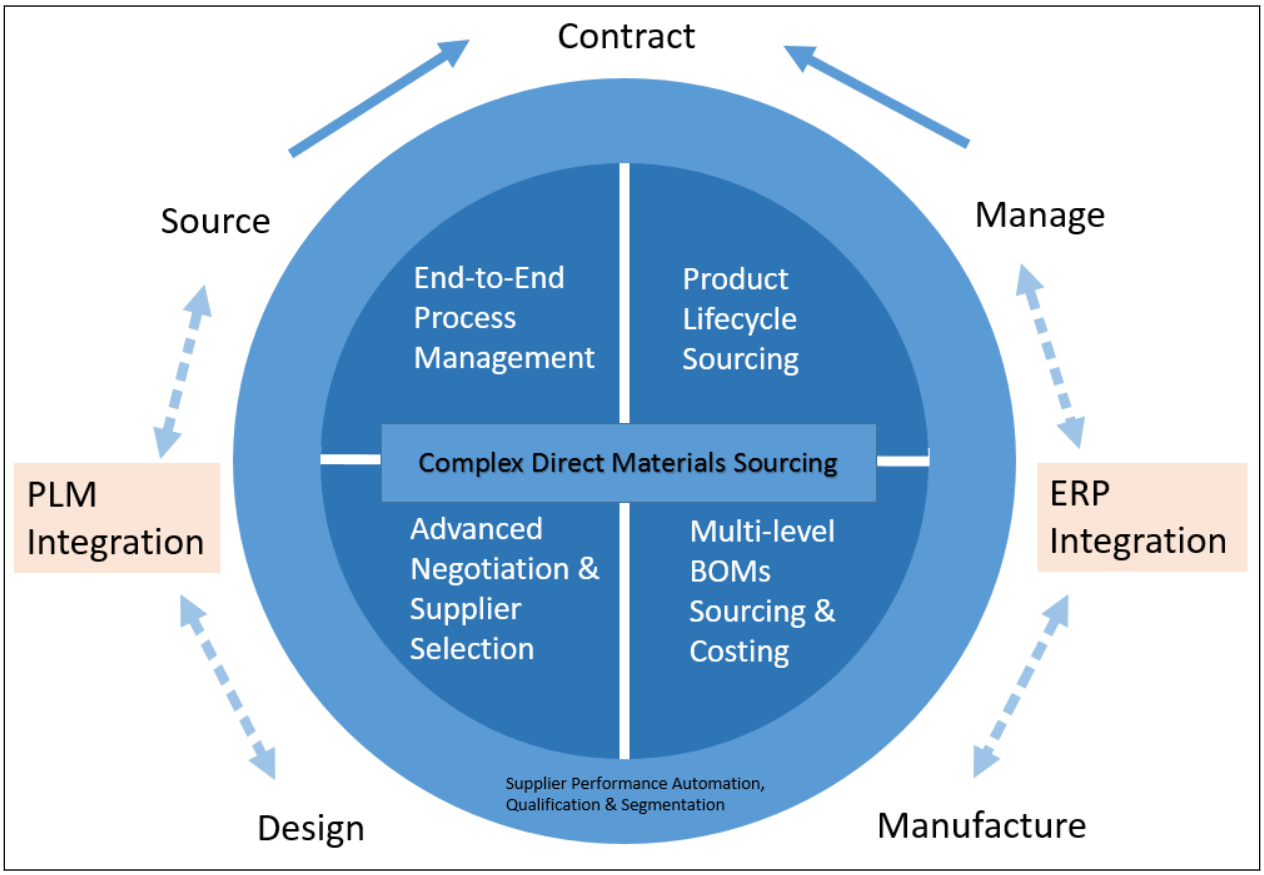
SAP Ariba Strategic Sourcing Suite is a single solution that works for all spend categories and manages the entire source-to-contract process from integrating bill of materials (BOM) from product lifecycle management (PLM) systems, through sourcing, contract management, and manufacturing execution integration. SAP Ariba Strategic Sourcing Suite enables you to:

- Source directly from a BOM and integrate to your PLM and SAP ECC systems
- Upload a BOM from your PLM systems and source directly from it. All items from your BOM will have pricing and assigned suppliers
- Source items from complex bills of materials while integrating to your ERP systems to ensure your purchase orders are generated directly from those contracted terms
- Ensure selection of authorized suppliers compliant with regulatory requirements
- View the supplier qualification criteria at a detailed level
- Export pricing information to your external system, which can then be used to create purchasing information records (PIRs) or analytical reports

SAP Ariba Strategic Sourcing Suite extends the functionality of SAP Ariba's industry-leading sourcing solutions into managing the more advanced requirements of product sourcing. The result is a single, closed loop, source-to-contract solution for managing sourcing and suppliers across all spend categories.

SAP Ariba Strategic Sourcing Suite integrates seamlessly with enterprise resource planning (ERP), PLM, and material master (MM) solutions from SAP. This integration enables you to get products to market faster by integrating sourcing and product design teams. You can also model product costing for complex, multilevel bills of materials, which helps you understand the final product costs and negotiate better savings – all while managing suppliers at the item or plant level to enhance supplier qualification and performance.

The following image describes SAP Ariba Strategic Sourcing Suite:



SAP Ariba Strategic Sourcing Suite has the following built-in functionality for the procurement of direct goods:

- End-to-end process management - from product specification and sourcing to contract management that's integrated with SAP ERP – minimizing contract leakage
- Product lifecycle sourcing – with integration to PLM, MM, and vendor management solutions from SAP for seamless data sharing and demand-driven sourcing
- Advanced negotiation and supplier selection functions – including support for additional event types, extended events, advanced scoring, and award optimization and analysis, which increase materials savings across more of your supply base and enable highly granular supplier selection
- Product costing of multilevel BOMs for materials and services
- Product sourcing supplier qualification, segmentation, and performance monitoring – to ensure you select authorized, optimal suppliers; accurately assess their quality, timeliness, and responsiveness; and avoid non-compliance or supply chain disruptions

SAP Ariba Sourcing

To operationalize strategic sourcing of direct materials, you need an end-to-end process that integrates your sourcing, contracting, and supplier management processes. You also need to monitor your supply base to ensure suppliers meet performance metrics and compliance requirements. That's why SAP Ariba Strategic Sourcing Suite includes built-in contract and supplier performance management functionality.

SAP Ariba Contracts

By using the contract management functionality built into SAP Ariba Strategic Sourcing Suite, you can say goodbye to misplaced and mismanaged paper contracts, as well as the risks and lost savings that go with them. SAP Ariba Contracts enables you to:

- Manage procurement and sales contracts, IP licenses, internal agreements, and more
- Automate and accelerate the entire contract lifecycle
- Standardize and control contract development and approval
- Collaborate with internal stakeholders and trading partners
- Integrate vendor master and contract data to and from other back-end systems

SAP Ariba Supplier Lifecycle and Performance

SAP Ariba Strategic Sourcing Suite helps you manage supplier information by ensuring supplier information in your vendor master is accurate and up to date. Using a single, web-based platform you can:

- Assess and qualify suppliers at the item, plant, or location level
- Access a 360-degree view into supplier information
- Monitor and manage supplier performance with a centralized information portal
- Assess compliance and manage supply risk
- Quickly identify and assess new sources of supply
- Streamline supplier onboarding process workflows and approvals

SAP Ariba Strategic Sourcing Suite Benefits

SAP Ariba Strategic Sourcing Suite supports a closed-loop, digital, source-to-contract process for product sourcing. SAP Ariba Strategic Sourcing Suite enables you to:

- Create process efficiencies across all spend categories
- Capture more savings by increasing spend under management on one solution
- Achieve contract compliance and stop contract leakage through ERP integration
- Source and contract faster by integrating master data across systems
- Better manage complex bills of materials with PLM integration
- Improve supplier selection to minimize supply risks
- Gain greater pricing and forecasting visibility

Terminology Specific to Product Sourcing Features

This topic describes various terms that are used in the context of SAP Ariba product sourcing features.

See SAP Ariba Glossary for additional terms and definitions related to SAP Ariba solutions and functionality.

Term	Definition
Ad hoc manufacturer	A manufacturer or supplier that is **not** linked to a given item in the `Approved Manufacturer Parts List` (AMPL) master data, such as a supplier manually invited to participate in an event for the material.
AML	See **Approved Manufacturer List**.
AML split	Defines the allocation of an item for a given plant among the approved manufacturers for an item. If the allocations for an item and a given plant do not total 100%, the AML split is categorized as "missing."
Approved manufacturer	A manufacturer or supplier that is an approved provider for a given item, as specified in the `Approved Manufacturer Parts List` (AMPL) master data.
Approved Manufacturer List (AML)	A list of manufacturers or suppliers approved to provide a given item, as specified in `Approved Manufacturer Parts List` (AMPL) master data. The suppliers in an AML for an item are automatically invited to simple RFQ events that contain the item.
Assemblies	Items that are made from many other items. For example, a computer hard disk drive.
Bill of materials (BOM)	A bill of materials provides a structured list of parts or components that form a product. The bill of materials information that SAP ERP exports to Ariba Sourcing includes information about material, plant, validity, component quantity, unit of measure, etc.
BOM	See **Bill of materials**.
BOM split	Defines the allocation of items within an item group for a given plant. If the allocations for an item group and a given plant do not total 100%, the BOM split is categorized as "missing." See also **Item group**.
Components	Raw materials or simple subassemblies.
Contract manufacturers	Suppliers who assemble the assemblies, subassemblies, or components in outsourced manufacturing.
Direct Materials	Goods sold to the end consumer either for immediate resale, like in the retail industry, or for manufacturing production. For example, car seats, brake assemblies, and engines.
Indirect Materials	Goods that do not end up in the product delivered to the end consumer. For example, office supplies and production equipment.
Item group	In the context of a Bill of Materials (BOM), an item group or alternative item group is a set of items that can be used interchangeably. Item groups are defined on the external systems. The scope of an item group identifier is a single level of a BOM hierarchy.

Product Sourcing Personas and User Groups

The product sourcing personas define the most common user roles and how they participate in various workflows. To be able to perform the tasks, each of the personas must be part of the user groups that have the necessary permissions.

The following table lists the product sourcing personas, the user groups to be assigned, and the key tasks each of the personas performs:

Product Sourcing Persona	User Groups	Key Tasks
Sourcing Operations	**Materials Manager** **Sourcing Agent** **Item360 Viewer**	• Review new BOMs • Assign programs > **Note** > The ability to assign programs to BOMs is not available when the `BOM_V2_ENABLED` parameter is enabled. The `BOM_V2_ENABLED` parameter is enabled by default for all sites deployed after January 2020. For more information about the `BOM_V2_ENABLED` parameter, see Supported Bill of Materials (BOM) Types [page 160]. • Assign owners For more information, see Material owner [page 15]. • Review BOM rollup and costing
Sourcing Manager	**Materials Viewer** **Sourcing Agent** **Item360 Viewer**	• Review new items • Review estimated costs • Review AML and BOM split • Obtain pricing through RFx events For information about additional user groups that have permissions for creating RFx events, see User groups with permissions for creating RFx events [page 17]. • Review pricing

Product Sourcing Persona	User Groups	Key Tasks
Sourcing administrator	**Materials Administrator** **Master Data Manager** **BOM Manager**	From **Manage** > **Administration** > **Product Sourcing Manager**: • Manage master data • Upload historical pricing, legacy data, data import • Monitor BOM queue • Monitor PIR message queue From **Manage** > **Administration** > **Master Data Manager**: • Monitor SAP Ariba strategic sourcing solutions master data loads

For more information about the capabilities available to each of the user groups listed in the table, see Capability matrix for product sourcing user groups [page 15].

Material Owner

A sourcing operations user can assign either a sourcing operations user or a sourcing manager user as a material owner. A material owner can perform the following tasks in addition to the tasks the user persona has access to:

- Enter estimated costs
- Manage AML and BOM splits
- Accept prices

Capability Matrix for Product Sourcing User Groups

The following table describes the capabilities of the product sourcing groups:

Action	Materials Administrator	Materials Manager	Materials Viewer	BOM Manager
View materials.	No	Yes	Yes	No
View materials for which they are an owner.	No	Yes	Yes	No
View BOMs.	No	Yes	Yes	No

Action	Materials Administrator	Materials Manager	Materials Viewer	BOM Manager
Create quote requests for materials. **Note** User must belong to a group with sourcing project creation capabilities to create quote requests. For information about user groups that have permissions for creating RFx events, see User groups with permissions for creating RFx events [page 17].	No	No	No	No
Create quote requests for materials they own. **Note** User must belong to a group with sourcing project creation capabilities to create quote requests. For information about user groups that have permissions for creating RFx events, see User groups with permissions for creating RFx events [page 17].	No	No	No	No
Accept pricing. **Note** Users can only accept pricing for parts they own.	No	No	No	No
Import bill of materials (BOM) CSV files.	Yes	No	No	Yes
Assign contract manufacturers to BOMs.	No	Yes	No	No
Assign programs to BOMs. **Note** The ability to assign programs to BOMs is not available when the `BOM_V2_ENABLED` parameter is enabled. The `BOM_V2_ENABLED` parameter is enabled by default for all sites deployed after January 2020. For more information about the `BOM_V2_ENABLED` parameter, see Supported Bill of Materials (BOM) Types [page 160].	No	Yes	No	No
Assign owners to BOMs.	No	Yes	Yes	No
Create placeholder parts.	No	Yes	Yes	No
Replace, edit, and delete placeholder parts in BOMs.	No	Yes	Yes	No
Enter estimated pricing.	No	No	No	No

Action	Materials Administrator	Materials Manager	Materials Viewer	BOM Manager
Enter estimated pricing for materials they own.	No	Yes	Yes	No
Enter split percentages.	No	No	No	No
Enter split percentages for materials they own.	No	Yes	Yes	No
Update master data.	Yes	No	No	No
Configure PIR integration.	Yes	No	No	No
Enter estimated lead time. **Note** Users can only accept pricing for parts they own.	No	No	No	No
Enter estimated lead time for materials they own.	No	Yes	Yes	No
Manage all types of product sourcing data.	Yes	No	No	No

User Groups with Permissions for Creating RFx Events

To create quote requests, 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)

Integration Options for Product Sourcing

Product sourcing features are designed to work with external systems such as SAP ERP, SAP S/4HANA, and SAP S/4HANA Cloud. This topic lists the integration options available for product sourcing users.

- SAP Ariba Cloud Integration Gateway-based integration between SAP Ariba Strategic Sourcing Suite and an SAP ERP system. For more information, see Using the SAP Integration Suite, managed gateway for spend management and SAP Business Network [page 56].
- SAP Ariba cloud integration adapter (9.0 and above)-based integration between SAP Ariba Strategic Sourcing Suite an SAP ERP system. For more information, see .
- SOAP web service for SAP S/4 HANA-based integration. For more information, see Using SOAP Web Service for SAP S/4 HANA Integration [page 64].

Workflow for Product Sourcing Use Cases

This topic provides a high-level workflow for enabling, configuring, and using the product sourcing features. Some of the steps listed in the table might vary based on your specific use cases.

> **Note**
>
> You must have a valid SAP Ariba Strategic Sourcing Suite account before you can enable product sourcing features.

1. Work with SAP Ariba Support to enable product sourcing features for your site.
2. Review your requirements and identify the use case:
   - **BOM-based** product planning and sourcing: Provides a cohesive view of various materials and sub-assemblies that form a product and enables users to collect quotes for entire BOMs and view and track rollup costs for BOMs.
   - **Materials-only** sourcing: Enables users to import materials from the material master, view the material details, collect prices for materials, and view historical pricing data for the materials.
   - **Hybrid mode**: Combines the capabilities of both BOM-based and materials-only modes.
3. Work with SAP Ariba Support to ensure that the site parameters necessary for your use case are configured. For a list of site parameters, see Site Parameters for Product Sourcing Features [page 22].
4. Configure integration options as required. For more information, see Integration Options for Product Sourcing [page 18].
5. After product sourcing is enabled and configured on your realm, follow the steps as shown in the table:

Step Number	Persona	Task	Notes
1	Sourcing administrator	Import plant data in CSV format See Importing Contract Manufacturer IDs (Contract MFR IDs) [page 90].	These steps are required only if you do not integrate SAP Ariba Strategic Sourcing Suite with an SAP ERP system.

Step Number	Persona	Task	Notes
		Import part type and programs See Configuring Part Type Definitions [page 93].	The ability to import product sourcing program definitions is not available when the BOM_V2_ENABLED parameter is enabled. The BOM_V2_ENABLED parameter is enabled by default for all sites deployed after January 2020. For more information about the BOM_V2_ENABLED parameter, see Supported Bill of Materials (BOM) Types [page 160]
2	ERP administrator	Export material master from an SAP ERP system to SAP Ariba Sourcing	This step is required only for the **Material-only** or **Hybrid mode** use case.
		Export AML from SAP ERP to SAP Ariba Sourcing	
		Export BOM data from SAP ERP to SAP Ariba Sourcing	This step is required only for the **BOM-based** or **Hybrid mode** use case.
	Sourcing administrator	Import BOM data from external systems by using a CSV file See Importing a BOM by Using a CSV File [page 85].	This step is required only for the **BOM-based** or **Hybrid mode** use case.
		Import pricing data for materials that do not have pricing information. See Update Estimated Pricing for Parts and Materials [page 198].	

Step Number	Persona	Task	Notes
3	Sourcing operations	Review BOM data and assign plants and programs. Alternatively, you can also choose to assign a Default Plant [page 163].	This step is required only for the **BOM-based** or **Hybrid mode** use case. The ability to assign programs to BOMs is not available when the BOM_V2_ENABLED parameter is enabled. The BOM_V2_ENABLED parameter is enabled by default for all sites deployed after January 2020. For more information about the BOM_V2_ENABLED parameter, see Supported Bill of Materials (BOM) Types [page 160] .
4		Review materials and assign material owners; material owners can be sourcing managers or sourcing operations users See Assigning Owners to Materials [page 175].	
5		Choose costing level for BOMs See Setting Costing Levels [page 180].	This step is required only for the **BOM-based** or **Hybrid mode** use case.
6	Material owner (Sourcing operations or sourcing manager)	Review new placeholder parts assigned to a BOM.	This step is required only for the **BOM-based** or **Hybrid mode** use case. Placeholder parts are not supported when the BOM_V2_ENABLED parameter is enabled. The BOM_V2_ENABLED parameter is enabled by default for all sites deployed after January 2020. For more information about the BOM_V2_ENABLED parameter, see Supported Bill of Materials (BOM) Types [page 160]

Step Number	Persona	Task	Notes
7		Assign new placeholder parts to a BOM. See Creating Placeholder Parts [page 191].	This step is required only for the **BOM-based** or **Hybrid mode** use case. Placeholder parts are not supported when the BOM_V2_ENABLED parameter is enabled. The BOM_V2_ENABLED parameter is enabled by default for all sites deployed after January 2020. For more information about the BOM_V2_ENABLED parameter, see Supported Bill of Materials (BOM) Types [page 160]
8		Enter estimated price for items. See Update Estimated Pricing for Parts and Materials [page 198]	
9	Sourcing manager	Create a simple RFx event for obtaining price quotes for materials or BOMs. See Creating Simple RFx Events for Materials [page 209].	
10	Suppliers	Respond to the RFx event on SAP Business Network	
11	Sourcing manager	Review and accept prices See Accepting Supplier Pricing [page 225].	
12	Material owner	Add AML and BOM split as necessary See Completing Splits for Materials with Missing AML Splits [page 190] and Completing Missing BOM Splits [page 182].	
13	Sourcing operations	Review BOM rollup costs and ensure that the pricing is complete	This step is required only for the **BOM-based** or **Hybrid mode** use case.
14	ERP administrator	Import PIRs	
15	ERP procurement specialist	Create purchase orders based on the PIRs	

Site Parameters for Product Sourcing Features

This topic provides a list of site parameters that are available for product sourcing use cases. Based on your use case and requirements, these parameters are configured by the customer support administrators.

Product sourcing features are designed for three broad use cases:

- BOM-based product planning and sourcing that provides a cohesive view of various materials and sub-assemblies that form a product and enables users to collect quotes for entire BOMs and view and track rollup costs for BOMs.
- Materials-only sourcing that enables users to import materials from the material master, view the material details, collect prices for materials, and view historical pricing data for the materials.
- Hybrid mode that combines the capabilities of both BOM-based and materials-only modes

Based on the your use case, SAP Ariba Support configures many of the parameters listed in the following table for your realm.

Parameter	Description	Use Case
`AMOUNT_PRECISION`	Specify the level of precision to apply for rounding of prices.	All
`BOM_QUOTE.ENABLE`	Enable the ability to trigger BOM quote from the BOM page.	BOM-based Hybrid
`BOM_QUOTE.USE_AML_SUPPLIER`	Enable the ability to add AML suppliers to BOM quote.	BOM-based Hybrid
`BOM_UPLOAD_SERVICE.ABORT_ON_FAILURE`	Specify whether BOM upload should continue (enable) or not (disable) after an error occurs during the upload. When set to TRUE, the upload is canceled after an error occurs.	BOM-based Hybrid
`BOM_V2_ENABLED`	Enable BOM V2 capabilities for the realm. The `BOM_V2_ENABLED` parameter is enabled by default for all sites deployed after January 2020. For more information about `BOM_V2_ENABLED` capabilities, see Supported Bill of Materials (BOM) Types [page 160].	BOM-based Hybrid
`COST_ROLLUP.CALCULATE_COST_IN_REAL_TIME`	Enable real-time calculation of rollup costs. We recommend that you disable this in production environments.	BOM-based Hybrid
`COST_ROLLUP.CALCULATE_COST_USING_SCHEDULE_TASK`	Enable scheduled calculation of rollup costs for each of the BOMs at the preconfigured interval of once every 24 hours.	BOM-based Hybrid
`COST_ROLLUP.NUMBER_OF_MONTHS_TO_CALCULATE_COST`	Specify the number of months for which you want the scheduled cost rollup task to calculate the rollup cost for the top BOMs. For example, if you set this parameter to 12, the scheduled cost rollup task calculates the roll up cost for the next one year.	BOM-based Hybrid

Parameter	Description	Use Case
DEFAULT_EXTERNAL_SYSTEM	Specify the external system, an SAP ERP system, for inbound and outbound data integration. This parameter is ignored when ENABLE_MULTI_ERP_SUPPORT is enabled.	All
DEFAULT_PLANT.ENABLED	Specify whether the default plant that is assigned through enabling the realm is used for all materials in the pricing database for product sourcing (enabled). By default, the parameter is disabled, and you need to define the plant IDs (PLANT_ID). Note that once the realm is enabled, the default plant parameter cannot be changed.	All
DEFAULT_PLANT.UI_DISPLAY	Specify whether the default plant that is assigned through the DEFAULT_PLANT.ENABLED parameter appears on the user interface (enabled) or not (disabled; default value). This parameter can be set only if DEFAULT_PLANT.ENABLED is enabled.	All
DEPLOYMENT_MODE.ADD_PLANT_FROM_MASTER_DATA	Enable plant information synchronization from material master.	Hybrid
DEPLOYMENT_MODE.BOM_SUPPORTED	Enable BOM upload to product sourcing.	BOM-based Hybrid
DEPLOYMENT_MODE.MATERIAL_GROUP	Enable synchronization of material data from material master with product sourcing.	Material-only Hybrid
DEPLOYMENT_MODE.PLANT_ASSIGNMENT_REQUIRED	Specify whether a plant assignment is mandatory (enabled) or not (disabled) for uploading BOMs, receiving quotes, and updating price and split information. When this is set to FALSE, a placeholder plant is assigned to BOMs that do not have a plant assigned. When this is enabled, plant assignment is mandatory for uploading BOMs and updating price and split information.	BOM-based Hybrid
DEPLOYMENT_MODE.SOURCE_OF_PLANT_ASSIGNMENT	Specify the source of plant assignment. • **Manual** indicates that the users manually assign plants. • **BOM_upload** indicates that the plant information is taken from the BOM data. • **Material_Master** indicates that plant information is taken from the material master.	BOM-based Hybrid
ENABLE_AUTOMATION_OF_AML_SPLIT_ALLOCATION	Enable auto allocation of 100 percent split for items that have only one AML supplier.	BOM-based Hybrid
ENABLE_BOM_MATERIAL_HYBRID_MODE	Enable to use both BOM-based and item master-based product sourcing. BOM_V2_ENABLED must be enabled for the realm. The BOM_V2_ENABLED parameter is enabled by default for all sites deployed after January 2020.	Hybrid

Parameter	Description	Use Case
ENABLE_CIG_INTEGRATION	Enable the use of SAP Ariba Cloud Integration Gateway for integration with SAP ERP. If this is disabled, you need an SAP Ariba Cloud Integration adapter for the integration to work.	All
ENABLE_GLOBAL_PRICING	Enable to use a single pricing for an item across plants. Disable to allow plant-specific pricing. **Note** One material can have multiple plants. For example, if one material has five plants and the ENABLE_GLOBAL_PRICING parameter is On, then the number of line items shown in the sourcing event is always one and the Purchase Information Record (PIR) is five. The same price is applied for the line item across all the plants. If ENABLE_GLOBAL_PRICING parameter is Off, then the number of line items and the price shown in the sourcing event is always determined by the plants you select. PIR is created only for the selected line items.	All
ENABLE_MULTI_ERP_SUPPORT	Enable synchronization of master data from all configured external systems with product sourcing. When this parameter is disabled, master data is synchronized only between the default external system and product sourcing.	All
ENABLE_TAGGING_FROM_UI	Enable tagging of BOMs and materials from the UI.	All
EXCEL.DISPLAY_PRICING_IN_MONTHS	Specify the number of months for which the information about prices and splits is displayed on the UI.	All
EXCEL.MAX_RECORDS_FOR_BOM_COMPARISON_EXPORT	Specify the maximum number of rows that a BOM comparison Excel report can contain.	BOM-based Hybrid
EXCEL.MAX_RECORDS_FOR_BOM_EXPORT	Specify the maximum number of records that a BOM hierarchy export can contain.	BOM-based Hybrid
EXCEL.MAX_RECORDS_FOR_MATERIAL_EXPORT	Specify the maximum number of records that a material export can contain.	Material-only Hybrid
FETCH_FIELDS.AML_PULL	Specify the AML fields that product sourcing retrieves from arches.	
FETCH_FIELDS.ITEM_MASTER_PLANT_CUSTOM_FIELDS_PULL	Specify the fields of ItemMasterPlant record that product sourcing retrieves from arches.	Material-only Hybrid
FETCH_FIELDS.ITEM_MASTER_PULL	Specify the item master fields that product sourcing retrieves from arches.	Material-only Hybrid
FETCH_FIELDS.PLANT_PULL	Specify the fields of plant records that product sourcing retrieves from arches.	All

Parameter	Description	Use Case
GET_QUOTE.ALLOW_NON_AML_SUPPLIER	Specify whether suppliers who are not part of AML for a material be invited to bid for that material. If this parameter is disabled, only AML suppliers are invited.	All
IMPORT.FILE_SIZE_LIMIT	Maximum size of the file that can be imported.	All
ITEM_360_SECTION.ENABLE_ACTIVITIES	Enable or disable the display of the activities section in the Item360 view.	All
ITEM_360_SECTION.ENABLE_CLEAN_SHEETS	Enable or disable the display of the cost breakdown-related information in the Item360 view.	All
ITEM_360_SECTION.ENABLE_AUDIT_LOG	Enable or disable the display of the audit information in the Item360 view.	All
ITEM_360_SECTION.ENABLE_PRICE_AND_SPLITS	Enable the display of the price and split information in the Item360 view.	All
ITEM_360_WIDGETS.ENABLE_CONTRACTS_INFO	Enable or disable the display of the contract information in the Item360 view.	All
ITEM_360_WIDGETS.ENABLE_PIR_INFO	Enable or disable the display of the PIR information in the Item360 view.	All
ITEM_360_WIDGETS.ENABLE_RFX_INFO	Enable or disable the display of event-related information in the Item360 view.	All
LAZY_LOAD_BOM_HIERARCHY	Configure product sourcing to upload BOMs one node at a time to avoid any performance impact on the UI because of large BOM uploads. Set this to FALSE if COST_ROLLUP.CALCULATE_COST_IN_REAL_TIME is enabled.	BOM-based Hybrid
MATERIAL_VOLUME.ABORT_ON_FAILURE	Enable or disable termination of processing of records when an error occurs. When disabled, processing of records is continued even after encountering errors.	Material-only Hybrid
MAX_CUSTOM_WIDGETS_CREATION_BY_USER	Specify the number of maximum custom widgets a user can create.	All
PDX.ABORT_ON_FAILURE	Enable or disable PDX file-based BOM data import to terminate when an error occurs. When this is enabled, the import is discarded and marked as INVALID or FAILED. When this is disabled, only the failed BOM is skipped and the remaining BOMs are processed.	BOM-based Hybrid
PDX.ENABLE	Enable or disable PDX file-based BOM upload. When this is disabled, the PDX is not enabled message is displayed when a user tries to import BOM by using PDX files.	BOM-based Hybrid
PDX.MASTER_DATA_SOURCE	Specify whether master data is integrated from the PDX source or through Arches.	BOM-based Hybrid
PIR_DEFAULTS.ConfirmationControlKey	Specify the default value for the confirmation control key sent in a PIR create message.	All

Parameter	Description	Use Case
`PIR_DEFAULTS.DefaultExternalSystem`	Specify the default external system to use in PIR messages.	All
`PIR_DEFAULTS.InfoCategory`	Specify the default value of the `InfoCategory` sent in a PIR create message.	All
`PIR_DEFAULTS.MinimumQuantity`	Specify the default minimum quantity sent in a PIR create message.	All
`PIR_DEFAULTS.Plant`	Specify the pant ID to be included in the PIR message if a material does not have a plant ID assigned. The value must match a valid SAP Plant ID.	All
`PIR_DEFAULTS.PriceDateCategory`	Specify the default value for `PriceDateCategory` to be used in a PIR message.	All
`PIR_DEFAULTS.PurchaseGroup`	Specify the default value for `PurchaseGroup` to be used in a PIR message.	All
`PIR_DEFAULTS.PurchaseOrg`	Specify the level of precision to apply for rounding of prices.	All
`PIR_DEFAULTS.StandardQuantity`	Specify the default value for `StandardQuantity` to be used in a PIR message.	All
`PIR_DEFAULTS.TaxCode`	Specify the default tax code for PIR messages.	All
`SKIP_UPDATING_CONTRACTED_PRICE_FOR_PIR`	Disable (toggle is enabled) updating of contracted prices in product sourcing. When the toggle is enabled, contracted prices are captured only in outbound PIR messages.	All
`UI.BOMS_WITH_MISSING_BOM_SPLIT_MONTH_INTERVAL`	Specify the number of months to wait before classify a BOM as missing BOM splits.	BOM-based Hybrid
`UI.DISPLAY_PRICING_IN_MONTHS`	Specify the number of months for which the prices and AML splits to be displayed in the UI.	All
`UI.EXCEL_IMPORT_FILE_SIZE_LIMIT`	Specify the maximum size of files allowed for import.	All
`UI.INCLUDE_ASSEMBLIES_IN_OWNER_WIDGETS`	Enable to include assemblies and sub-assemblies in the items with owners and items without owners search results.	BOM-based Hybrid
`UI.MATERIAL_MISSING_AML_SPLIT_MONTH_INTERVAL`	Specify the number of months to be considered before classifying an item as missing AML split.	All
`UI.MAX_RECORDS_FOR_BOM_COMPARISON`	Specify the maximum number of rows that can appear in BOM comparison report on the UI.	BOM-based Hybrid
`UI.MISSING_PRICE_MONTH_INTERVAL`	Specify the number of months to be considered before classifying an item as missing price.	All
`USE_CIG_PRODUCTION_URL`	Specify whether the data is sent to the production instance (enabled) or test instance (disabled) of SAP Ariba Cloud Integration Gateway.	All

Parameter	Description	Use Case
USE_CIG_US_SITE	Specify whether the U.S. instance (enabled) or the EU instance (disabled) of the SAP Ariba Cloud Integration Gateway is used.	All

How to Export Product Sourcing Data for a Specific Date Range

You can export product sourcing data for a specific range in JSON format.

Prerequisites

To be able to initiate the export job, you must belong to the **Customer Administrator** or **Materials Administrator** group.

Context

For a specific date range, you can export changes and additions to any or all of the following object types:

- RFX information
- RFX items
- RFX item suppliers
- RFX standard terms
- RFX custom terms
- Items that have been added or have changes to attributes other than pricing, such as the type, owner, category, description, or project.
- Item pricing. If a price information has been modified or added for an item (such as for a new time period or plant), all pricing information for the item is exported.
- Item supplier splits.
- BOM items
- Item attributes
- BOM split information. Split information (item quantities divided and allocated to multiple suppliers) for BOM items in the BOMList.
- Items added to plants
- Plants
- Estimated lead time for an item from a supplier
- Item suppliers
- Custom fields

For every export operation, more than one JSON file is created: one file, with the name of the object type, contains the actual data of that object type and the other file, Summary.json, contains the summary of the extraction details. For example, if you select the object type **Plant**, the following files are created:

- **Plant.json**: This contains the list of all the plants that were created or updated during the selected date range. The number of records in the file depends on the configuration of the site parameter `WEBSERVICE.BATCH_FILE_SIZE`. Multiple files are created if the number of records exceeds the number configured in the parameter.
- **Summary.json**: This contains the extraction details, such as the status, messages (if any), from and to date, object type, begin and end time of the export operation, number of records exported, and the total number of records.

The maximum size of an exported file is 32 MB and the files are available on the **Export Data** page for a maximum of 90 days.

Procedure

1. On the SAP Ariba Administrator page, click **Product Sourcing Manager** > **Export Data**.

   The **Export Data** page opens.
2. Select the date range for which you want to export the data.

   > ⓘ Note
   >
   > If left blank, the date of your site configuration is considered as the default **From** date and the current date is considered as the default **To** date.
3. From the **Object Type** dropdown, select one or all object types.
4. Click **Export**.
5. Refresh the page.

   The JSON files are created for the selected object type and displayed in the table. The column **Job Status** shows the status of the export.
6. When the job status is **Complete**, click the file to download it.

   The JSON file is downloaded to the Downloads folder.

Product Sourcing UI

The SAP Ariba Strategic Sourcing Suite includes the Product Sourcing dashboard. The Product Sourcing dashboard displays BOM and material related information and links you can use to perform tasks. For more information, see Using the Product Sourcing Dashboard [page 31].

To use some of the product sourcing functionalities, you must configure your site in the SAP Ariba Administrator user interface. For more information, see Using the Product Sourcing Administration UI [page 29].

Product sourcing provides online help using the SAP Companion, powered by SAP Enable Now. For more information, see Online Help for Product Sourcing [page 48].

Using the Product Sourcing Administration UI [page 29]

Using the Product Sourcing Dashboard [page 31]

Online Help for Product Sourcing [page 48]

Using the Product Sourcing Administration UI

SAP Ariba Strategic Sourcing Suite provides a set of product sourcing functionalities. To use some of these functionalities, you must configure your site in the SAP Ariba Administrator user interface.

You can configure the product sourcing functionalities in the **Manage** > **Administration** > **Product Sourcing Manager** page of your SAP Ariba Strategic Sourcing Suite.

> **Note**
>
> To access the configurable options in the **Product Sourcing Manager** page, you must be a member of one of the following groups:
>
> - **Materials Administrator**
> - **Customer Administrator** (access to this group must be approved by SAP Ariba)

Following are the configuration options available in the **Product Sourcing Manager** page:

Configuration Options	Description
Message Queue	Enables you to monitor and manage: • BOM uploads from SAP Ariba Cloud Integration Gateway • PIR data transfers • Product Data eXchange (PDX) data transfers • Item price For more information, see: • Monitoring and Managing BOM Uploads from SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network [page 58] • Monitoring and Managing PIR Data Transfers [page 105] • Monitoring and Managing PDX Uploads [page 108]
Import PDX	Enables you to manually upload BOMs in PDX format to SAP Ariba Strategic Sourcing Suite from an external system or file by using the PDX web service. For more information, see Manually Uploading PDX Files [page 74].
Standard Field Mapping	PDX web service uses standard field mapping. Use the option to: • Map data fields received from the ERP systems to standard product sourcing item fields • Map Approved Manufacturer List (AML) data from SAP ERP to product sourcing item fields For more information, see Creating Maps for Standard Product Sourcing Fields [page 98].
Import Data	Enables you to: • Define contract manufacturer IDs (Contract MFR IDs) and map them to SAP plant IDs in a CSV file • Configure part type definitions for materials in a CSV file • Add tags to BOMs or materials by using a CSV file For more information, see • Importing Contract Manufacturer IDs (Contract MFR IDs) [page 90] • Configuring Part Type Definitions [page 93] • Adding Tags to BOMs or Materials by Using a CSV File [page 203]

Configuration Options	Description
Import BOM	Enables you to: • Import BOMs from ERP systems to the SAP Ariba Strategic Sourcing Suite • Upload and view the status of BOMs For more information, see Using CSV Files [page 78].
Audit Record	Enables you to view the actions performed by users, system administrators, and the system. For more information, see Product Sourcing Audit Records [page 284].
Field Label Manager	Enables you to configure SAP Ariba Strategic Sourcing Suite to display field names that match the names used in your organization. For more information, see Modifying Product Sourcing Field Labels [page 97].
Custom Field Mapping	Enables you to: • Add additional fields that are not part of the standard mapping fields • Map the custom fields specific to a plant in the ERP system to custom fields in product sourcing For more information, see Creating Maps for Custom Product Sourcing Fields [page 100] and Creating Maps for Plant-Specific Custom Fields [page 102].
Replicate item prices to Plants	Enables you to replicate the item prices to plants.

Using the Product Sourcing Dashboard

The **Product Sourcing** dashboard organizes BOM management tasks and information you use frequently.

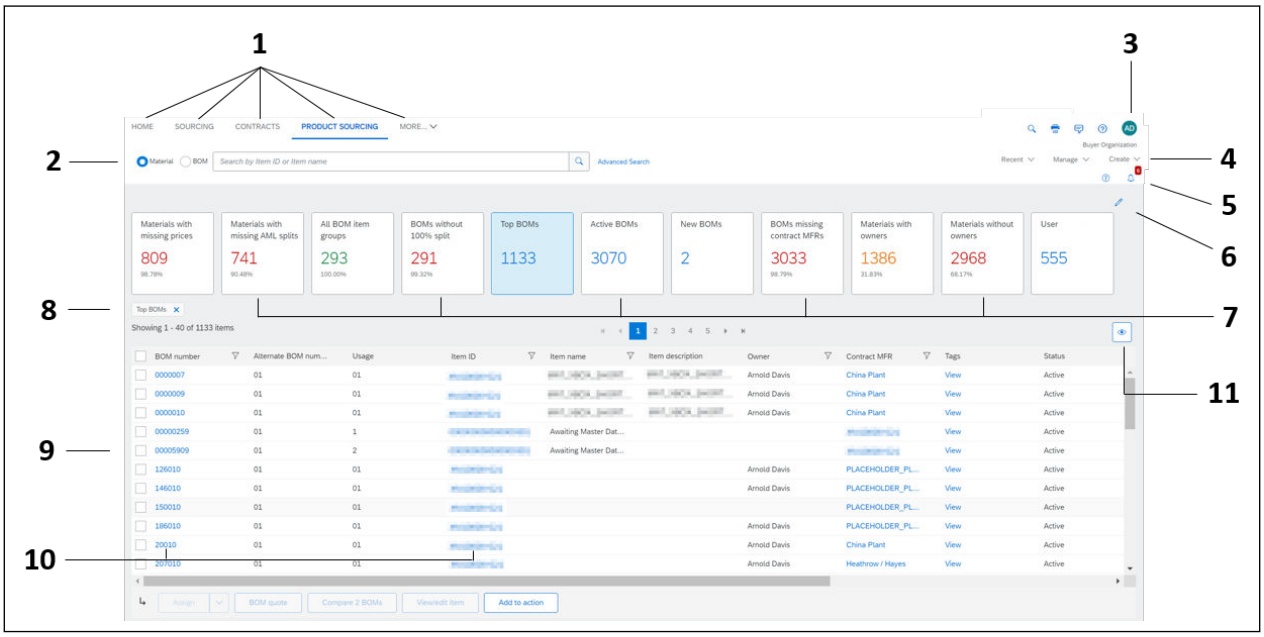
The Product Sourcing Dashboard

The **Product Sourcing** dashboard displays BOM and material related information and links you can use to perform tasks.

The SAP Ariba Strategic Sourcing Suite solutions package includes the **Product Sourcing** dashboard. Your **Product Sourcing** dashboard might be based on the default dashboard template, or it might be based on a template created by someone in your organization.

The information and tiles displayed on your dashboard depend on your group membership. Learn about Product Sourcing Personas and User Groups [page 14].

The following image describes the location of dashboard elements:



1. Dashboard tabs.
2. Search bar where you can search for BOMs, materials, owner, supplier, part type, and category. You can filter search results in the BOM or materials list.
3. Your name, with sign out, preferences, visual design theme settings, search, print, notifications, and help icons.
4. **Recent**, **Manage**, and **Create** dropdowns.
5. The notification bell icon. Click the notification bell icon to see the reports you downloaded. Reports still being processed in the background show a status of **Created**. After the download completes, you see a **Success** message.
6. Click the edit icon to rearrange or hide the action tiles.
7. Action tiles. If you select an action tile, the filter information (**8**) is updated and the data table (**9**) shows the items that meet the criteria defined by the action tile, such as **Materials without owners**.
8. Filter information (only present if you select an action tile). Describes the filter used to select items shown in the data table. Remove the filter to see all BOMs or materials by clicking the **X**.
9. Data table. Contains BOMs or materials. If you select an action tile, the items are filtered according to the criteria defined by the action tile.
10. Identifiers for the BOMs or materials in the data table. Clicking an identifier opens a dropdown menu with selections to view more information about the item or set options for the item.
    To see a hierarchical view of a BOM with numbered hierarchy levels and arrow icons to expand or collapse levels, click the BOM ID or name and choose **View BOM Details**.
11. **Show All Rows** link and table menu. The **Show All Rows** link is shown only if there are additional items that meet the criteria for the data table. This link loads up to 2000 items for viewing (if more than 2000 items meet the criteria, only the first 2000 are shown; you can refine your filter criteria to decrease the number of items). Use the table menu to show or hide table columns in the data table.

Product Sourcing Dashboard Data Table Filtering

SAP Ariba automatically filters items in the data table as you type in the column filter search box. For example, when you type AAA in the **Item Id** column filter search box, SAP Ariba automatically filters the data table to only display items that contain AAA in the ID. You can apply multiple columns filters at the same time.

Column filter icons indicate when items in the data table are filtered by a search term. SAP Ariba displays the following column filter icon when filtering is on:  . Click the column filter icon to enter a search term and click **Done** to close the search box. To remove column filtering, you can delete the text in the search box or click (X) in the search box.

The following material data table columns instantly filter items as you type in the corresponding column filter search box:

- **Item Id**
- **Item Name**
- **Category**
- **Programs**

  > ⓘ Note
  >
  > The ability to assign materials to programs is not available when the `BOM_V2_ENABLED` parameter is enabled. The `BOM_V2_ENABLED` parameter is enabled by default for all sites deployed after January 2020. For more information about the `BOM_V2_ENABLED` parameter, see Supported Bill of Materials (BOM) Types [page 160].

- **Contract MFR**
- **Owner**
- **Supplier**
- **Part Type**

The following BOM data table columns instantly filter items as as you type in the corresponding column filter search box:

- **BOM Id**
- **BOM Name**
- **Programs**

  > ⓘ Note
  >
  > The ability to assign BOMs to programs is not available when the `BOM_V2_ENABLED` parameter is enabled. The `BOM_V2_ENABLED` parameter is enabled by default for all sites deployed after January 2020. For more information about the `BOM_V2_ENABLED` parameter, see Supported Bill of Materials (BOM) Types [page 160].

- **Contract MFR**
- **Owner**

Restrictions

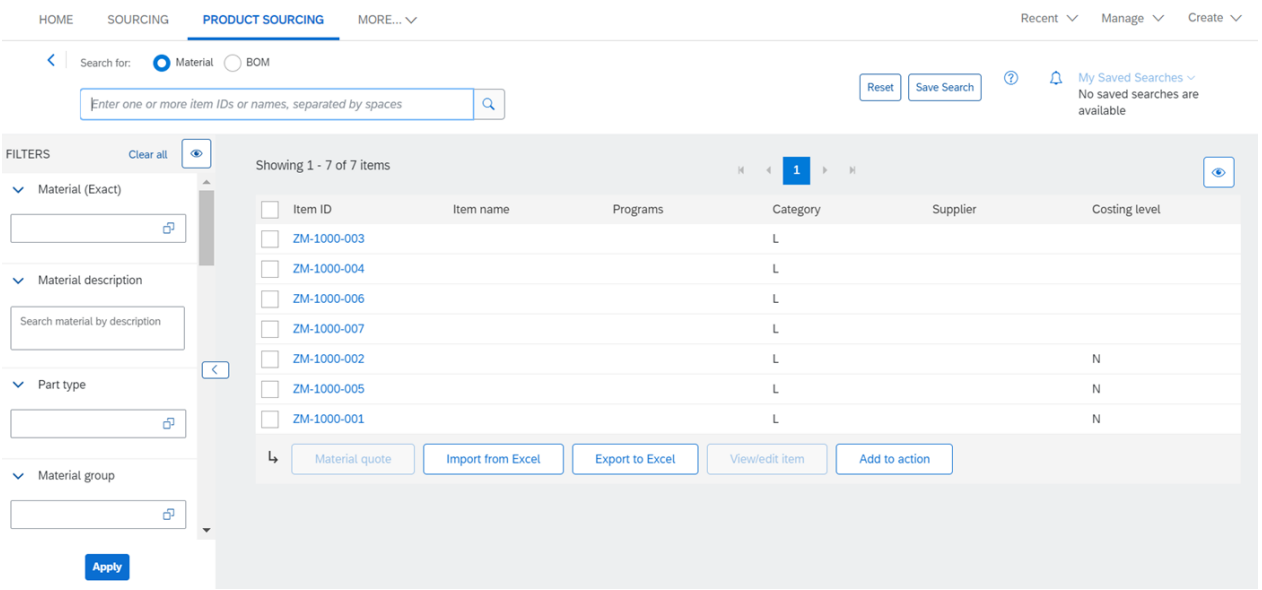
Data table instant filtering is not available on the:

- **Advanced Search** page.

- View BOM table in the context of a BOM quote.
- **Compare BOM** popup.

Product Sourcing Advanced Search Page

The **Product Sourcing** dashboard provides an **Advanced Search** option to search for materials and BOMs based on specific search criteria. The **Advanced Search** page is based on the SAP Fiori 3.0 standards and allows buyers to search for materials and BOMs that they want to add to their sourcing projects from the material master data. You can choose to search for materials or BOMs by entering one or more material IDs, separated by spaces or commas in the search field. You can also use the various field filters available in the **Advanced Search** page to search based on a specific search criteria.



For more information, see Searching for Materials and BOMs [page 41].

Product Sourcing Dashboard Action Tile Reference [page 35]

Product Sourcing Dashboard Action Tile Visibility [page 37]

About Creating Custom Widgets and Action Tiles [page 38]

Creating and Managing Widgets on the Product Sourcing Dashboard [page 38]

Searching for Materials and BOMs [page 41]

Viewing BOM and Material Change Details from the Dashboard [page 43]

Searching Specific External Systems for Materials or BOMs [page 44]

Grouping Multiple BOMs and Materials Together To Perform Specific Tasks [page 45]

Using the Cost Breakdown Page [page 46]

Product Sourcing Dashboard Action Tile Reference

Action tiles show the most important information about your daily activities and tasks at a glance. They are located in a strip across the top of a dashboard tab.

Tile	Description
BOMs missing contract MFRs	The action tile shows the number of bill of materials (BOM) missing contract manufacturers. A chart of BOMs without assigned contract manufacturers (MFRs). It shows the total number of BOMs, and the percentage of BOMs without contract manufacturers. Hover over the green part of the chart to see the number of BOMs missing contract manufacturers. Click the tile to see a list of the BOMs missing contract manufacturers. You can add the contract manufacturer to the BOM. The action tile updates to reflect the change when the dashboard is refreshed.
BOMs missing programs	The action tile shows the number of BOMs missing programs. A chart of BOMs without assigned programs. It shows the total number of BOMs, and the percentage of BOMs without programs. Hover over the green area of the chart to see the number of BOMs missing programs. **Note** The ability to assign programs to BOMs is not available when the `BOM_V2_ENABLED` parameter is enabled. The `BOM_V2_ENABLED` parameter is enabled by default for all sites deployed after January 2020. For more information about the `BOM_V2_ENABLED` parameter, see Supported Bill of Materials (BOM) Types [page 160].
BOM item groups without 100% split	The action tile shows the number of BOM item groups without 100% split. A chart of BOM item groups with splits that do not total 100%. It shows the total number of BOMs, and the percentage of BOM item groups with missing splits. Hover over the green area of the chart to see the number of BOM item groups with missing splits. Click the tile to see a list of the BOM item groups that are missing splits. You can go to the BOM or material details and add the missing split percentages. The action tile updates to reflect the change when the dashboard is refreshed.
Materials with owners	The action tile shows the number of materials with owners.

Tile	Description
	A bar chart with the overall number of materials that have owners, and a bar for each part type with the number of materials with owners for that part type. Click the tile to see a list of the materials that have owners. You can filter the materials by part type, and change the owner. The action tile updates to reflect the change when the dashboard is refreshed.
Materials without owners	The action tile shows the number of materials without owners. A bar chart with the overall number materials that do not have owners, and a bar for each part type with the number of materials without owners for that part type. Click the tile to see a list of the materials that do not have owners. You can filter the materials by part type, and assign the owner. The action tile updates to reflect the change when the dashboard is refreshed.
Materials with missing prices	The action tile shows the number of materials with missing pricing. The chart of materials without pricing shows the total number of materials, and the percentage of materials without pricing. Hover over the green area of the chart to see the number of materials missing contract manufacturers. Click the tile to see a list of the materials that are missing pricing. You can filter the materials and assign the owner. The action tile updates to reflect the change when the dashboard is refreshed.
Materials with missing AML splits	The action tile shows the number of materials missing Approved Manufacturer List (AML) splits. A chart of materials with assigned plants and missing splits. It shows the total number of materials, and the percentage of materials with missing percentage splits. Hover over the green area of the chart to see the number of materials missing AML splits. Click the tile to see a list of the materials missing AML splits. You can add the splits to the materials. The action tile updates to reflect the change when the dashboard is refreshed. **Note** The tile count and table rows do not match if a material has more than one plant. The tile counts each material

Tile	Description
	and plant combination once and the table shows all materials with their plants.
Materials with missing lead time	The action tile shows the number of materials without a lead time. A chart of materials without a lead time. Hover over the green area of the chart to see the number of materials missing a lead time. Click the tile to see a list of materials missing a lead time. You can add the estimated lead time. The action tile updates to reflect the change when the dashboard is refreshed.
My materials	The action tile displays the total number of materials owned by the signed in user and provides quick access to a list of those materials.

Product Sourcing Dashboard Action Tile Visibility

The action tiles that display on your dashboard depend on your user permissions.

These action tiles...	Can be seen by members of these groups
BOMs missing contract MFRs **BOMs missing programs** **Note** The ability to assign programs to BOMs is not available when the BOM_V2_ENABLED parameter is enabled. The BOM_V2_ENABLED parameter is enabled by default for all sites deployed after January 2020. For more information about the BOM_V2_ENABLED parameter, see Supported Bill of Materials (BOM) Types [page 160]. **BOM item groups without 100% split**	**Materials Manager**
Materials with owners **Materials without owners** **Materials with missing pricing** **Materials with missing AML splits** **Materials with missing lead time**	**Materials Manager** **Materials Viewer** **Note** The **Materials Viewer** user sees only the materials they own.

These action tiles...	Can be seen by members of these groups
My materials	

About Creating Custom Widgets and Action Tiles

Buyers using the product sourcing features of SAP Ariba Strategic Sourcing Suite can add custom widgets (action tiles) to the product sourcing dashboard based on advanced search criteria that they specify and save. The drag and drop, hide, and unhide capabilities enable you to specify the order and appearance of the action tiles on the product sourcing dashboard.

An action tile that is created based on a saved advanced search displays the specified search name and the total number of search results on the dashboard. Action tiles and advanced search templates share a one-to-one mapping. You can associate an action tile with only one search template.

The total number of custom widgets or action tiles that a user can create is controlled by the `MAX_CUSTOM_WIDGETS_CREATION_BY_USER` parameter. Custom widgets or action tiles created by a user are visible only to the user who created the widgets.

You can arrange the display of widgets including custom widgets and standard widgets by editing the widgets tray. You can drag and drop the widgets in the order you want the widgets to appear on the dashboard. You can also choose to hide or unhide widgets from the dashboard. The changes you make to the widgets tray are saved so that the widgets appear in the specified order whenever you sign in.

See Creating and Managing Widgets on the Product Sourcing Dashboard [page 38].

Creating and Managing Widgets on the Product Sourcing Dashboard

You can create custom widgets based on the advanced search criteria that you specify, arrange the order in which the widgets appear on the product sourcing dashboard, and disable or delete a custom widget that you created.

> **Note**
>
> The parameter `MAX_CUSTOM_WIDGETS_CREATION_BY_USER` must be set to a value other than 0. By default, the value of this parameter is set to 5.

Creating a Custom Widget

Context

> **Note**
>
> The maximum number of custom widgets is specified by using the `MAX_CUSTOM_WIDGETS_CREATION_BY_USER` parameter. If the number of widgets exceed the maximum limit, you get an error message indicating that you cannot have more widgets than the value specified for this parameter. In such cases, you might want to delete an existing widget to accommodate the new one.

To create a custom widget:

Procedure

1. Click **Advanced Search** from the product sourcing dashboard.

   The **Advanced Search** page appears.
2. Specify the advanced search criteria and click **Save Search**.

   The **Save Search** dialog box appears.
3. In the **Save Search** dialog box complete the following steps and click **Save**:
   - Enter a **Search Name**.
     The search name you entered appears as the name of the widget.
   - (Optional) Enter a **Description**.
   - Click the **Save as a widget** toggle.
     If the **Save as a widget** is not enabled, the search is saved but no widget is created for the search.

   The widget appears on the product sourcing dashboard and displays the total number of search results.

Enabling a Custom Widget for a Saved Advanced Search

Context

You can edit a saved advanced search to enable a custom widget for it. To enable a custom widget for a saved advanced search:

Procedure

1. From the product sourcing dashboard, click **Advanced Search**.

   The **Advanced Search** page appears.
2. From the **My saved searches** list, click the pencil icon next to the saved search to which you want to add the custom widget.
3. In the **Edit** dialog box, click the **Save as a widget**toggle to enable custom widget for the saved advanced search.
4. Click **OK**.

Disabling a Custom Widget for a Saved Advanced Search

Context

You can disable a custom widget from a saved advanced search that has a custom widget associated with that.

To disable a custom widget from a saved search:

Procedure

1. From the product sourcing dashboard, click **Advanced Search**.

   The **Advanced Search** page appears.
2. From the **My saved searches** list, click the pencil icon next to the saved search from which you want to disable the custom widget.
3. In the **Edit** dialog box, click the **Save as a widget**toggle to disable the widget for the saved advanced search.
4. Click **OK**.

Later, if you need to add the widget back to the search, follow the steps in Enabling a Custom Widget for a Saved Advanced Search [page 40].

> **Note**
>
> Alternatively, you can click the delete icon next to the saved search to delete the saved search and the associated widget. If you click the delete icon, the **Delete forever?** dialog box appears. Click the **Delete** button to delete the search and the widget.

Arranging the Widgets on the Dashboard

Context

To arrange the order in which the widgets, both standard widgets and custom widgets, appear in the dashboard:

Procedure

1. From the product sourcing dashboard, click the pencil icon on the top right corner of the widgets tray.

   The widgets tray appears in an editable form.

   - Drag and drop the widgets in the order you want the widgets to appear on the dashboard.
   - Hide or unhide widgets by clicking the hide/unhide icon.
2. Click the save icon to save the changes. Alternatively, click the cancel icon to cancel the changes.

   The order of widgets is saved and the widgets are always displayed according to the order you specified.

Searching for Materials and BOMs

After you search for materials, you can view details about the materials and perform other actions as permitted by your group membership, such as getting quotes for the materials.

Procedure

1. To search for materials or BOMs using text matches in the ID or name field:
   a. In the search bar on the **Product Sourcing** tab, select **Search for materials** or **Search for BOMs** in the dropdown.

b. Enter search text in the text box. Text searches are not case sensitive and match items that contain the specified text anywhere in the ID or name field.

   For example, if you enter **AA**, the search can match AAB, **2AA**, **4aa** or any other ID or name that contains **AA** or **aa**.

   You can also search for exact matches by enclosing the name or ID in double quotes. For example:

   "Z10000-001"

2. Use the **Advanced Search** to search using other data fields with choosers. You can also use the **Advanced Search** to search using a list of multiple material IDs.
   a. Click **Advanced Search**.
   b. Choose if you want to search all materials or limit your search to BOMs.

      If you choose to search for BOMs, the checkbox **Top BOMs** is visible and you can check it to limit your search to top-level BOMs.
   c. Enter search text in the text box. Text searches are not case sensitive and match items that contain the specified text anywhere in the ID or name field. You can also enter multiple search strings, separated by spaces. The search results include all items that contain any of the search strings.

      If your site assigns BOMs to programs, you can enter program names or external IDs for programs in the search text box.

      > **Note**
      >
      > The ability to assign programs to BOMs is not available when the `BOM_V2_ENABLED` parameter is enabled. Instead, refer to BOM and Material Tags [page 200]. The `BOM_V2_ENABLED` parameter is enabled by default for all sites deployed after January 2020. For more information about the `BOM_V2_ENABLED` parameter, see Supported Bill of Materials (BOM) Types [page 160].

   d. Use the field filters to specify search criteria.

      A field filter enables you to search for values in a specific material or BOM field.

      The available field filters are:

      - **Material (Exact)**: Search by choosing material IDs.
      - **Part type**: Search by choosing part types.
      - **Contract MFR**: Search by choosing contract manufacturers. The search returns all materials assigned to the selected contract manufacturers, either by explicit assignment or by inherited assignment.
      - **Program**: Search by choosing program names.

        > **Note**
        >
        > The ability to assign programs to BOMs is not available when the `BOM_V2_ENABLED` parameter is enabled. Instead, refer to BOM and Material Tags [page 200]. The `BOM_V2_ENABLED` parameter is enabled by default for all sites deployed after January 2020. For more information about the `BOM_V2_ENABLED` parameter, see Supported Bill of Materials (BOM) Types [page 160].

      - **Owner**: Search by choosing material owners. The chooser shows users who are members of the **Materials Administrator**, **Materials Manager**, or **Materials Viewer** groups.
      - **Supplier**: Search by choosing suppliers.
      - **Category**: Search by choosing categories.
      - **Pinned Contract MFR** : Search by choosing contract manufacturers. The search returns all materials explicitly assigned to the selected contract manufacturers.

- **Supplier part number** : Search by entering all or part of a supplier part ID. You can enter multiple values, separated by spaces to match any of the values.
- **BOM number**: Search by choosing the BOM number. The search returns all variant BOMs with the selected BOM number.
- **Alternate BOM number**: Search by choosing the alternate BOM number.
- **Usage**: Search by choosing the usage.
- **Technical Type**: Search by choosing the technical type.
- **Tags**: Search by choosing the tags.
- **External System**: Search by choosing the external system.
- **Material group**: Search by choosing the material group.
- **Material description**: Search by choosing the material description.
- **Change numbe**: Search by selecting the change number from the **Choose Values for Change Number** popup that appears when you select the **Change numbe** filter.
- **Custom field**: Search by choosing the custom field value of type string.

3. **Optional:** Save your search specification by clicking **Save Search**.

   Saved searches are available under the **My Saved Searches** pull-down arrow. You can reload or edit saved searches.

Viewing BOM and Material Change Details from the Dashboard

You can view change details of a BOM or a material from the product sourcing dashboard.

Context

From the product sourcing dashboard, you can view change details such as Change Number, Valid From, Change Description, and Change Reason for a selected BOM; for materials, in addition to the fields listed for BOM, you can also view the Revision Level.

Procedure

1. From the product sourcing dashboard, click the BOM or item number for which you want to view the change details.
2. From the popup menu, click:
   - **View BOM change details** to view the change details of the selected BOM.
   - **View item change details** to view the change details of the selected item.

The following details appear in a popup:

Table 1: For BOM

Change Number	Valid From	Change Description	Change Reason

Table 2: For Material

Revision Level	Change Number	Valid From	Change Description	Change Reason

Searching Specific External Systems for Materials or BOMs

You can search for materials or BOMs within specific external systems. The search result provides a material or BOM list with the details so you can easily find missing pricing, materials without owners, and more.

Prerequisites

Ensure to enable the `ENABLE_MULTI_ERP_SUPPORT` site parameter to search specific external systems for materials or BOMs. Contact SAP Ariba Support to set the parameter value.

> **Note**
>
> **`ENABLE_MULTI_ERP_SUPPORT`**
>
> If set to `true`, multiple SAP ERP systems can be used to send inbound and outbound data in product sourcing. You can use multi-ERP systems when loading master data, in sourcing projects, and when sending PIRs. You can also search materials or BOMs by SAP ERP system.
>
> When the `ENABLE_MULTI_ERP_SUPPORT` parameter is enabled, the system ignores the `DEFAULT_EXTERNAL_SYSTEM` parameter and the `PIR_DEFAULTS.DefaultExternalSystem` parameter, and pulls data from all configured SAP ERP systems.
>
> The default setting for this parameter is `false`.

Procedure

1. Click the **Advanced Search** link at the top of the product sourcing dashboard.
2. Choose if you want to search all materials or BOMs in the external systems.
3. Locate the **External System** field filter in the available list of filters.
4. Click the icon in the **External System** field filter.

   The **Choose Values for External System** popup appears.
5. In the **Choose Values for External System** popup, select the external systems you want to search.

6. Click **Done**.

Results

You see a detailed list of the materials or BOMs from the selected external systems. Depending on your authorizations, you can import and export from Excel, assign owner, get material quote, and perform other actions.

Grouping Multiple BOMs and Materials Together To Perform Specific Tasks

Use this procedure to add multiple BOMs and materials to a group to perform specific tasks.

Context

As a buyer, you can group together multiple BOMs or materials from different data tables on the product sourcing dashboard to perform various tasks such as changing owner assignments, viewing or editing items, and so on.

Procedure

1. Sign in to the application and go to the product sourcing dashboard.
2. Select multiple BOMs or materials from one or more data tables.
3. Select **Add to Action**.

   The selected BOMs and materials are added to a group and a banner appears above the data table.
4. Click the banner to view the list of selected BOMs or materials.
   - Select the desired materials from the list and perform any of the following actions:
     - **Assign owner**
     - **Material quote**
     - **View/edit item**
     - **Export to Excel**
     - **Remove**
   - Select the desired BOMs from the list to perform any of the following actions:
     - **Assign owner**
     - **BOM Quote**

     > ⓘ Note
     >
     > You can create a **BOM Quote** for one BOM at a time. Therefore, when you have selected multiple BOMs, this option is not usable.

- **Compare 2 BOMs**
- **View/edit item**
- **Remove**

Using the Cost Breakdown Page

You can access the **Cost breakdown** page through the **Open cost breakdown for this line item** icon () in classic sourcing events or the **View cost breakdown** icon (⧗) in guided sourcing events.

The **Cost breakdown** page helps you to easily navigate between different line items, suppliers, and cost groups. The **Cost breakdown** page includes the following components:

Cost Breakdown Page Components	Description
Supplier dropdown	Use the dropdown to navigate between different suppliers. Note that this dropdown is hidden for suppliers who access the **Cost breakdown** page to submit their bids for the line items.
Item dropdown	Use the dropdown to navigate between different line items. Upon selection, the line item details such as ID, Plant, Quantity, and Price are displayed.
Tabs for cost groups	Configured cost groups for the line item are displayed in the form of tabs. Select the tab to view and modify the cost groups content.
Cost group table	Lists the cost components, cost group terms, total component cost, and total of cost group information.
Add button	Select the button to add a new cost component to a cost group.
Delete button	Select the button to delete a cost component from the cost group.
An Excel dropdown	Select the dropdown to export or import the cost groups content of a line item.
Copy cost details icon	Select the icon to copy cost group information across line items.

When you select a line item in the **Item** dropdown of the **Cost breakdown** page, the associated ID, Plant, Quantity, and Price information of the line item are displayed. The Price displays the total price for the line item as per the configured formula.

The cost groups of the line item are displayed in the form of tabs in the **Cost breakdown** page. You can select a cost group tab to view or edit the cost group content as per the business requirements. You can also add new cost components to a cost group in the **Cost breakdown** page.

Some of the functionalities that buyers or suppliers can perform through the **Cost breakdown** page are:

- View and edit the cost groups content of a line item
- Analyze the bids submitted by various suppliers for the cost components of a cost group
- Add a new cost component to a cost group

- Delete a cost component from a cost group
- Export or import the cost groups content of a line item
- Copy cost group information across line items

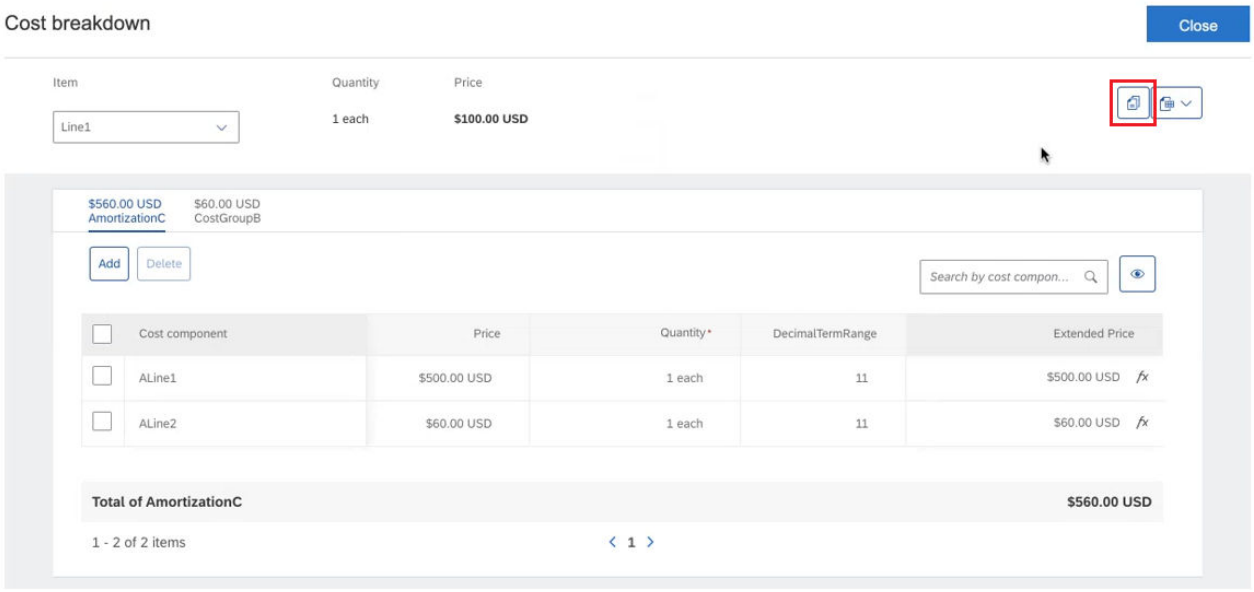
For information about adding and deleting cost components, see Adding a Cost Component to a Cost Group in the Cost Breakdown Page [page 281] and Deleting a Cost Component from a Cost Group in the Cost Breakdown Page [page 281].

> **Note**
>
> Suppliers can access the **Cost breakdown** page and navigate between different line items and different cost groups of the line item to add their pricing information. Suppliers can also add a new cost component, delete a cost component, export the cost group content of a line item, and import the cost group content of a line item.

To view and analyze the bids submitted by a supplier, buyers must choose a supplier from the **Supplier** dropdown in the **Cost breakdown** page.

Copying Cost Group Information

You can copy cost group information such as the added cost components and cost element values from one line item to other line items of an event by using the **Copy cost details** icon in the **Cost breakdown** page.



> **Note**
>
> You cannot copy cost group information across line items when the line items use different bidding currencies.

For more information, see Copying Cost Group Information from the Cost Breakdown Page [page 282].

Online Help for Product Sourcing

Product sourcing offers online, in-app help using SAP Companion, powered by SAP Enable Now.

When you're working on the **Product Sourcing** dashboard, you can open SAP Companion, powered by SAP Enable Now. SAP Companion provides an in-app help panel with context-sensitive information. For product sourcing, SAP Ariba provides preloaded help content. Sites with an SAP Enable Now license can also be configured to allow members of the **SAP Enable Now User** group to add custom SAP Companion content for product sourcing.

SAP Companion also provides access to the learning center content, such as recommended tutorials related to the current user interface page.

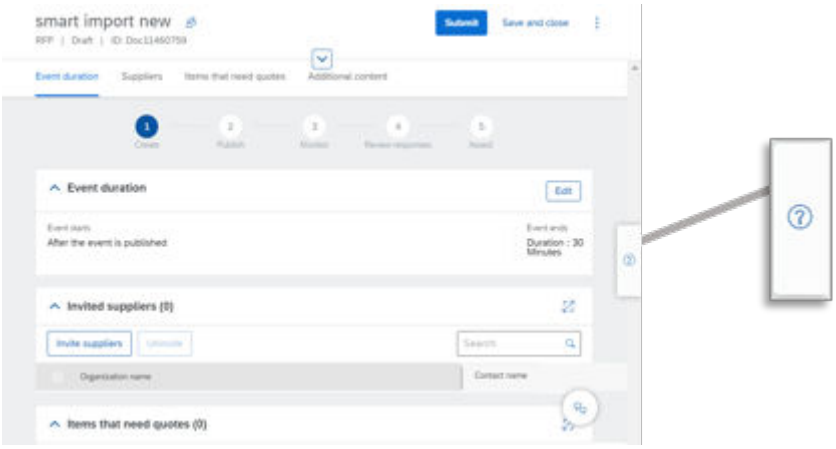
> **Note**
>
> Standard content is available to all organizations without an additional license. Custom content requires an SAP Enable Now license.

Prerequisites

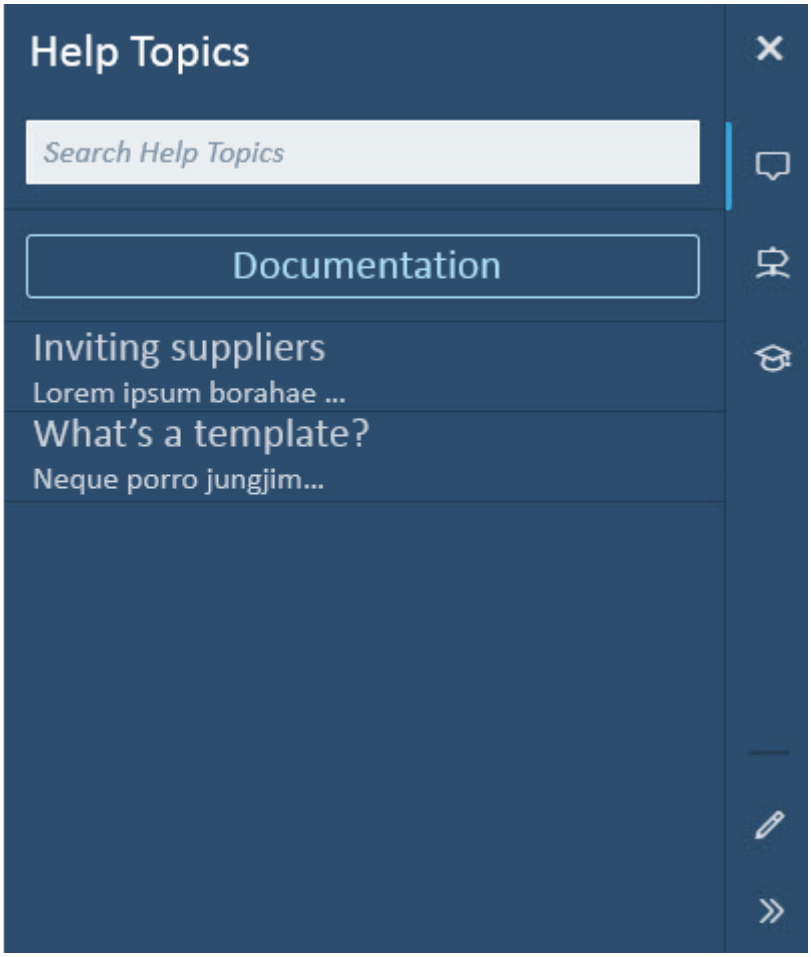
Ensure that your web browser is configured to allow access to SAP Enable Now. For more information, refer to the SAP Companion Integration Guide.

Opening SAP Companion Online Help

On user interface pages with online help available, you'll see a question mark icon ( ) on the right edge of the page. Click the question mark icon ( ) to open SAP Companion:



Using the SAP Companion Help Panel



In the SAP Companion help panel, you can perform the following actions:

To Perform This Action...	Select This Icon
Show the help topics for the current page	
Show the guided tours for the current page.	, then select the name of a guided tour to launch the tour
Access the Learning tab, which contains a list of the recommended learning topics for the current user interface page. You can also access the Learning Center, which contains additional process and task tutorials.	
Hide (minimize) the help panel (SAP Companion continues to run)	
Exit SAP Companion	
Customize online help (requires additional configuration)	

Customizing Online Help

In sites configured to allow custom SAP Companion content, members of the **SAP Enable Now User** group can customize online help by adding custom content and modifying the content layout, including the layout for standard (preloaded content). If you can customize online help for guided help, you'll see an edit icon () in the help panel.

For more information about how to set up and configure SAP Companion custom help, refer to Enabling SAP Companion Custom Content for Product Sourcing [page 51].

Related Information

Enabling SAP Companion for Product Sourcing [page 50]
Enabling SAP Companion Custom Content for Product Sourcing [page 51]
Page Context Information for Online Help in Product Sourcing [page 53]
SAP Companion Authoring Guide
SAP Companion Integration Guide

Enabling SAP Companion for Product Sourcing

Enable SAP Companion to make help content available to all product sourcing users.

Prerequisites

- You must be a member of the **Customer Administrator** group to access **Intelligent Configuration Manager** workspace and tasks.
- Carefully review the configuration change request for your site.

Context

To enable SAP Companion, you modify the Enables Web Assistant in-context help for guided sourcing (`Application.AQS.EnableWebAssistantForGuidedSourcing`) parameter in Intelligent Configuration Manager.

Parameter changes typically take effect immediately. Parameter changes affect all users. Therefore, plan any changes in configuration settings carefully for your production site.

> **Note**
>
> SAP Companion content is enabled by default.

Procedure

1. On the dashboard, choose **Manage** > **Administration**.
2. Click **Intelligent Configuration Manager** > **Manage Configurations**.
3. On the **Welcome to Intelligent Configuration Manager** page, click **Continue** to go to the Intelligent Configuration Manager home page.
4. From the solution area, choose **Sourcing and Contracts** > **Parameters**.
5. On the **Manage parameters** page, search for the **Web Assistant in-context help for guided sourcing** parameter.
6. Double-click the parameter name or click > to expand and view the parameter details such as description, default value, and its value in the production site.
7. Move the slider to **Yes** in the **New value** column.
8. Click **Save**.

Next Steps

After enabling SAP Companion, users see a question mark icon (ⓘ) that they can click to display the help panel.

Related Information

Enables Web Assistant in-context help for guided sourcing
Online Help for Product Sourcing [page 48]
Enabling SAP Companion Custom Content for Product Sourcing [page 51]
Page Context Information for Online Help in Product Sourcing [page 53]
SAP Companion Authoring Guide
SAP Companion Integration Guide

Enabling SAP Companion Custom Content for Product Sourcing

You can optionally enable SAP Companion custom help content for your organization's users.

Enabling SAP Companion custom content allows you to create guidance specific to your organization and for custom functionality.

Custom content can help you manage:

- New user onboarding
- Change management for new functionality

- Occasional users
- Power users who want detailed information
- Release news
- Other information to help users, such as policies, video tutorials, or enablement tools

SAP Companion custom content is optional. If you don't create it, users have access to standard content.

Prerequisites

Ensure that your web browser is configured to allow access to SAP Enable Now. For more information, refer to SAP Companion Integration Guide.

Obtain an SAP Enable Now License

You must have an SAP Enable Now license to create a SAP Companion configuration file and content for SAP Companion. If you already have a license, you can use it for SAP Ariba applications.

To obtain an SAP Enable Now license, have your Designated Support Contact (DSC) contact your SAP Ariba representative.

Create a SAP Companion Configuration File in SAP Enable Now

To enable SAP Companion custom content, you must synchronize script snippets and create a SAP Companion configuration file.

For more information about configuring extended and custom content in SAP Companion, refer to SAP Companion Configuring Extended and Custom Content.

Add the URL from Enable Now to SAP Ariba

After you create a SAP Companion configuration file, you must enter the URL from Enable Now Manager in the Specify the Web Assistant JavaScript template URL for Sourcing parameter.

1. To enter the URL from Enable Now Manager in the Specify the Web Assistant JavaScript template URL for Sourcing parameter, choose **SAP Ariba system** > **Administration** > **Intelligent Configuration Manager** > **Manage Configurations** > **Continue**.
2. In the Intelligent Configuration Manager go to **Sourcing and Contracts** > **Parameters**.
3. Search for the Specify the Web Assistant JavaScript template URL for Sourcing parameter.
4. Enter the URL from Enable Now Manager in the Specify the Web Assistant JavaScript template URL for Sourcing (**Application.AQS.WebAssistantJSTemplate**) parameter as **New value**.

5. Click **Save**.

> **Note**
>
> It could take up to a couple of hours for the configuration changes to take effect.

Create SAP Companion Custom Content

Your organization plans custom content, creates it, and publishes it. You can also translate it to other languages.

> **Note**
>
> You can add help content to most pages, except pages that appear within inline frames (iframes).
>
> You can't add hot spots in the landing page designer, because help content doesn't change when administrators navigate into tiles or landing pages.

Content creators must have the Enable Now permissions **Content: Create** and **Content: Edit**, and at least one user must have the permission **Content: Publish**.

For more information about creating content, refer to SAP Companion Authoring Guide.

Related Information

Online Help for Product Sourcing [page 48]
Enabling SAP Companion for Product Sourcing [page 50]
Page Context Information for Online Help in Product Sourcing [page 53]
SAP Enable Now Web Assistant Integration
SAP Enable Now Learning Journey
SAP Companion Integration Guide
SAP Companion Authoring Guide

Page Context Information for Online Help in Product Sourcing

While adding custom help content in SAP Companion, powered by SAP Enable Now for product sourcing, you need the Page ID to link the content to the specific pages. The following table gives the page IDs for the product sourcing user interface pages to which you can add custom help content.

Page	Page ID
Dashboard	dashboard

Page	Page ID
Simple Search	simpleSearch
Advance Search	advanceSearch
BOM Split Information	bomSplitInfo
Item Information	materialInfo
BOM Detail	bomDetail
Item 360	item360
BOM Comparison	bomCompare
Import Excel	importExcel
Get Quote Dialog	getQuote
BOM Quote Dialog	createBomQuote
Admin page - Message Queue	messageQueue
Admin page - Import Data	importData
Admin page - Replicate item prices to plants	plantAssignment
Admin page - Import BOM	importBOM
Admin page - Import PDX	importPdx
Admin page - Standard Field Mapping	standardFieldMapping
Admin page - Custom Field Mapping	customFieldMapping
Admin page - Audit Record	auditRecord
Admin page - Import Field Labels	importFieldLabels

Related Information

Online Help for Product Sourcing [page 48]
Enabling SAP Companion for Product Sourcing [page 50]
Enabling SAP Companion Custom Content for Product Sourcing [page 51]
SAP Companion Authoring Guide
SAP Companion Integration Guide

Import, Configure, and Monitor Data for Product Sourcing

Configure SAP Ariba Strategic Sourcing Suite to Import Data from SAP

To use product sourcing, you must import bill of materials (BOM) documents and other data from an external system to SAP Ariba. BOM documents from SAP ERP contain references to SAP ERP material master data (such as plant and supplier information), so if you import BOMs from an SAP system, you must also import SAP material master data. You can optionally map information from the external systems to product sourcing fields.

If you want to send inbound and outbound data using multiple SAP ERP systems in product sourcing, contact SAP Ariba Support to enable the site parameter `ENABLE_MULTI_ERP_SUPPORT`.

> **Note**
>
> **`ENABLE_MULTI_ERP_SUPPORT`**
>
> If set to `true`, multiple SAP ERP systems can be used to send inbound and outbound data in product sourcing. You can use multi-ERP systems when loading master data, in sourcing projects, and when sending PIRs. You can also search materials or BOMs by SAP ERP system.
>
> When the `ENABLE_MULTI_ERP_SUPPORT` parameter is enabled, the system ignores the `DEFAULT_EXTERNAL_SYSTEM` parameter and the `PIR_DEFAULTS.DefaultExternalSystem` parameter, and pulls data from all configured SAP ERP systems.
>
> The default setting for this parameter is `false`.
>
> `ENABLE_MULTI_ERP_SUPPORT` does not support materials with the same material ID in multiple SAP ERP systems.

Use one of the following methods to import BOM documents and other data:

- Automatically import BOMs from SAP using the SAP Integration Suite, managed gateway for spend management and SAP Business Network. SAP Ariba Strategic Sourcing Suite receives bill of materials (BOM) data from SAP ERP, processes it asynchronously, and sends status messages back to SAP ERP.
- Automatically import BOMs from SAP using the SAP Ariba cloud integration adapter. BOMs are queued for export on SAP ERP after they are created and imported by SAP Ariba Strategic Sourcing Suite at scheduled intervals.

SAP BOMs reference SAP material master data items, so you must also import material master data from SAP using SAP Ariba cloud integration components. For information about configuring SAP material master data integration, see SAP Material Master Data Integration.

- Send BOMs from an external system using the SAP Ariba `BOMRequestsService` SOAP web service.
- Send BOM data to SAP Ariba in Product Data eXchange (PDX) format using an HTTP POST request.
- Send BOM data to SAP Ariba in comma-separated values (CSV) file format by using either the UI option to upload a CSV file or the web services API for uploading BOM data in CSV format.

Using the SAP Integration Suite, managed gateway for spend management and SAP Business Network [page 56]

Using SOAP Web Service for SAP S/4 HANA Integration [page 64]

Using SOAP Web Service for BOM Upload [page 67]

Using PDX Web Service [page 73]

Using CSV Files [page 78]

Using the SAP Integration Suite, managed gateway for spend management and SAP Business Network

You can configure SAP Ariba Strategic Sourcing Suite to use the SAP Integration Suite, managed gateway for spend management and SAP Business Network to import BOMs from SAP.

Prerequisites

Your site must be configured to use the SAP Integration Suite, managed gateway for spend management and SAP Business Network to integrate with SAP ERP.

- Contact SAP Ariba Support to enable the `ENABLE_CIG_INTEGRATION` site parameter.
  `ENABLE_CIG_INTEGRATION`

  This parameter determines if SAP Ariba Strategic Sourcing Suite uses the SAP Integration Suite, managed gateway for spend management and SAP Business Network, instead of an SAP Ariba cloud integration adapter, to integrate with SAP ERP.

  When the `ENABLE_CIG_INTEGRATION` parameter is set to `true`, SAP Ariba Strategic Sourcing Suite uses the SAP Integration Suite, managed gateway for spend management and SAP Business Network to integrate with SAP ERP.

  > **Note**
  >
  > When this parameter is set to `true`, both BOM and PIR will use the SAP Integration Suite, managed gateway for spend management and SAP Business Network for integration.

  The default value is `false`. This means an SAP Ariba cloud integration adapter must be configured to import BOM and material master data from SAP ERP.

- See SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide for SAP Ariba Strategic Sourcing Suite, and bill of materials (BOM) configuration.
- See SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Overview Guide for bill of materials information.

Configuring Sourcing Requests Using SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network for SAP S/4HANA Cloud

If your system is integrated with SAP S/4HANA Cloud, you can configure integration tasks to send and receive sourcing request and award information from SAP S/4HANA Cloud to SAP Ariba Sourcing through the SAP Integration Suite, managed gateway for spend management and SAP Business Network (CIG). CIG is used to send information between SAP ERP and SAP Ariba Sourcing.

Prerequisites

Your system must be integrated with SAP S/4HANA Cloud. Your system must be enabled to create sourcing requests using SAP S/4HANA Cloud integration.

To enable sourcing requests on SAP S/4HANA Cloud, you must be a member of one of the following:

- **Customer Administrator** group (access to this group must be approved by SAP Ariba).
- **Integration Admin** group
- A group with the **Administrator** or **Integration Admin** role

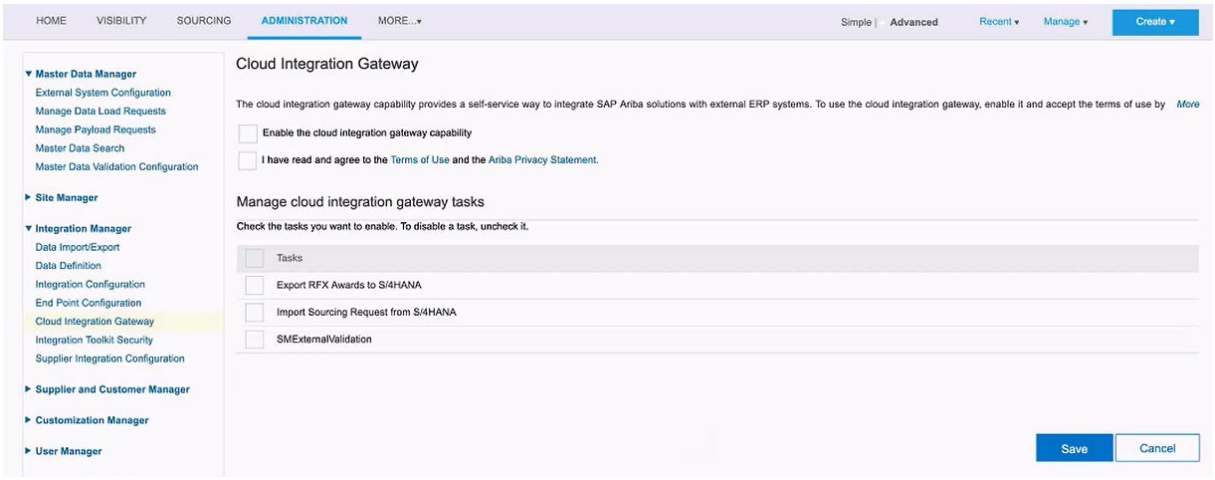
Context

Customers with SAP S/4HANA Cloud can use the SAP Integration Suite, managed gateway for spend management and SAP Business Network to configure the integration tasks. You must enable the integration tasks to use SAP Integration Suite, managed gateway for spend management and SAP Business Network. The configuration details for the integration tasks are automatically set by SAP Ariba.

Procedure

1. Click **Manage** > **Administration** on the SAP Ariba Administrator dashboard.
2. Click the expansion arrow for **Integration Manager**.
3. Choose **Cloud Integration Gateway**.
4. Click the checkbox for **Enable the cloud integration gateway capability** and **I have read and agree to the Terms of Use and the Ariba Privacy Policy**.

5. Select the integration task you want to enable from the listed tasks:
    1. **Import Sourcing Request from S/4HANA**
    2. **Export RFX Awards to S/4HANA**



6. Click **Save**.

Results

The selected tasks are enabled. Additionally, you can click **Integration Configuration** to view all the tasks.

Monitoring and Managing BOM Uploads from SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network

SAP Ariba Strategic Sourcing Suite uses the SAP Integration Suite, managed gateway for spend management and SAP Business Network to automatically receive bill of materials (BOM) data from SAP ERP.

Prerequisites

To monitor and process bill of materials (BOM) data transfers, you must be a member of one of the following groups:

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

Your site must be configured to use the SAP Integration Suite, managed gateway for spend management and SAP Business Network (CIG) to integrate with SAP ERP. See Using the SAP Integration Suite, managed gateway for spend management and SAP Business Network [page 56] for configuration information.

Context

A `BOMReplicateRequest` message with BOM data from SAP ERP is sent to CIG. CIG transforms the data into a payload for each BOM and sends it to product sourcing as a SOAP request.

The BOMs are processed and validated asynchronously as they are received. If a BOM fails, the other BOMs continue to be processed.

Example: A BOM has a top BOM, assembly 1, and assembly 2. A total of 3 payloads are sent to SAP Ariba, 1 for each BOM structure.

> **Note**
>
> The scheduled task, `BOM Upload Service Processor for CIG`, located in the **Product Sourcing Manager** > **Scheduled Tasks** page uploads the BOMs asynchronously as a service.

Procedure

1. To see the status of the BOM replication request, go to the **Message Queue** located in the **Product Sourcing Manager** area on the **Administration** tab.
2. Choose the following options in the **Message Queue**:
   - **Message queue type: INBOUND**
   - **Type: BOM_REPLICATION**
   - Choose a **Status:** from the dropdown
3. Click **Search**.

   The BOM upload service runs every 5 minutes and takes all items in **CREATED** status and processes them.

   A list of results based on the status type is displayed.

   See Status of BOM Upload Service Processing [page 109] for more information about the status.
4. Click the status in the search results to see the start date and end date each replication request was reached.
5. Click **Content** under the **Content type** column to download the `BOMReplicateRequest` SOAP file posted from the SAP ERP system.

   If a failure status type is given, the status link shows the detailed information to be corrected. Correct the error in the SAP ERP source system and resend the data.

   A BOM confirmation entry is created when product sourcing has finished processing the replication request. See Monitoring BOM Upload Confirmations Sent to SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network [page 60].

Monitoring BOM Upload Confirmations Sent to SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network

A BOM confirmation message is created when product sourcing has finished processing the BOM replication request from the SAP Integration Suite, managed gateway for spend management and SAP Business Network (CIG). The confirmation message is sent back to SAP ERP through CIG. The message informs SAP ERP the BOM upload was received and if the load was a success or failure.

Prerequisites

To monitor and process bill of materials (BOM) data transfers, you must be a member of one of the following groups:

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

Your site must be configured to use the SAP Integration Suite, managed gateway for spend management and SAP Business Network to integrate with SAP ERP. See Using the SAP Integration Suite, managed gateway for spend management and SAP Business Network [page 56] for configuration information.

BOM data must have been sent through CIG from SAP ERP to product sourcing. See Monitoring and Managing BOM Uploads from SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network [page 58].

Context

Status messages about the success or failure of the load are sent back to SAP ERP in a SOAP request (`BOMConfirmation`) through CIG. The status message includes a universally unique id (`UUID`) created by CIG when the BOMs are sent. The id lets you know the material, BOM number, BOM category, response code, and if the load was a success or failure. If the load failed, the status message information is used to correct the error and resend the load from SAP ERP.

Procedure

1. Go to the **Message Queue** located in the **Product Sourcing Manager** area on the **Administration** tab.
2. Choose the following options in the **Message Queue**:
    - **Message queue type: OUTBOUND**
    - **Type: BOM_CONFIRMATION**
    - Choose a **Status:** from the dropdown
3. Click **Search**.

A list of results based on the status type is displayed.

See Status of BOM Upload Service Processing [page 109] for more information about the status.

4. Click the status in the search results to see the start date and end date each status for that upload was reached.
5. Click **Content** under the **Content type** column to download the `BOMConfirmation` SOAP message sent to the SAP ERP system.

   If a failure status type is given, the status link shows the detailed information to be corrected. Correct the error in the SAP ERP source system and resend the data.

Support for Notes for SAP S/4HANA

This feature enables buyers to send and receive information to and from suppliers as notes in a sourcing request.

The notes are text fields that are imported from SAP S/4HANA to SAP Ariba along with the Request For Quote (RFQ) information. The notes in the RFQ at the header level are displayed as description in the sourcing project. The notes at the line level are added as terms in the event content. Buyers can communicate the required information to the suppliers when creating a sourcing event. The suppliers can provide their comments during the bidding process. SAP Ariba sends the comments from the suppliers back to SAP S/4HANA, along with the award information.

> **Note**
>
> If the RFQ information from SAP S/4HANA doesn't include **Note from supplier** field, it is not available for the suppliers in a sourcing request.

Prerequisites

To create quote requests, 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)

The following are the user interface changes:

- The header level notes are added as description when a sourcing event is created from the RFQ data.
- The following fields are added in the event content for line level notes:
  - **Detailed description**: The buyer can add information about line items in this field.
  - **Notes from supplier**: The buyer can add this field to get response from the supplier regarding a line item.

    > ⓘ Note
    >
    > If the RFQ information from SAP S/4HANA does not include **Note from supplier** field, it is not available for the suppliers in a sourcing request.

  - **Internal memo**: Buyers can add information for internal purpose and is not visible to the supplier.

Support for Attachments for SAP S/4HANA

Buyers attach documents to the Request for Quote (RFQ) to provide more information to the suppliers bidding on the items. This feature enables you to send documents as attachments along with the RFQ data back and forth between SAP S/4HANA Cloud and SAP Ariba.

The RFQ can contain documents at both header level and item level. When a sourcing request is created in SAP Ariba, the documents attached to RFQs are also imported. The documents attached at the header level must be copied manually to the sourcing project. But the line level documents are copied automatically to the sourcing project. During the bidding process, suppliers can respond to the bids with documents attached by buyers. Suppliers can attach documents at the line level when responding to the bids. The documents attached by suppliers are sent back to SAP S/4HANA Cloud when the bids are awarded.

> ⓘ Note
>
> The field `If necessary, attach a supporting file to your response` will always be present in the payload, regardless of whether the value is present and regardless of the source from which the value is retrieved, such as the SAP ERP system.

Prerequisites

To create quote requests, 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)

Restrictions

- You can attach files with maximum size up to 100 MB.
- When responding to the bids suppliers can attach only one document.

Sending RFQ Confirmation to SAP S/4HANA Cloud

Buyers need to be informed, if a sourcing request is created in SAP Ariba for the RFQ data imported. SAP Ariba sends a confirmation message to SAP S/4HANA Cloud when a sourcing request is created. The message indicates whether a sourcing request was successfully created or an error was encountered.

The RFQ information from SAP S/4HANA Cloud is processed asynchronously by a regularly run scheduled task to create a sourcing request in SAP Ariba. When the sourcing request is created successfully, a confirmation is sent toSAP S/4HANA by a regularly run scheduled task.

The confirmation message contains the `<error code>` and `<severity code>`. An `<error code>` can be either `200` (success), `400` (failure), or `500` (failure). The `<severity code>` can be either `Y` or `E` indicating either success or failure respectively.

Prerequisites

Your system must be integrated with SAP S/4HANA Cloud.

To create quote requests, 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)

Receiving Supplier Quotation Confirmation from SAP S/4HANA Cloud

SAP S/4HANA Cloud can send confirmation messages back to SAP Ariba Sourcing after sourcing award data is received.

Supplier quotation confirmation messages from SAP S/4HANA Cloud are displayed on the **Award Confirmation** tab in the event monitoring interface. Confirmation message data includes awarded participant names, contact names, and award confirmation IDs. Error messages also display on the **Award Confirmation** tab if SAP S/4HANA Cloud encounters an error while processing the sourcing award data.

> ⓘ Note
>
> This functionality requires an SAP Integration Suite, managed gateway for spend management and SAP Business Network (CIG) integration between SAP Ariba Sourcing and SAP S/4HANA and is only available for SAP S/4HANA Cloud and SAP Ariba Sourcing integrated events.

Restrictions

This functionality is not available for SAP S/4HANA.

Using SOAP Web Service for SAP S/4 HANA Integration

You can integrate your system with SAP S/4HANA Cloud, and send automated sourcing requests. With SAP S/4HANA Cloud, the automated process bypasses SAP Business Network and goes straight from SAP S/4HANA Cloud to SAP Ariba Sourcing. You must configure integration tasks to send sourcing requests between SAP S/4HANA Cloud and SAP Ariba Sourcing. The integration task can be configured using either SOAP web service or SAP Integration Suite, managed gateway for spend management and SAP Business Network.

If you choose to use SOAP web service, you must configure the end points for the integration tasks. The sourcing requests are sent in an XML using a SOAP request.

The process flow begins when a sourcing request is created in SAP S/4HANA Cloud and sent to SAP Ariba Sourcing. SAP Ariba Sourcing then downloads the sourcing request, and creates a sourcing project from the sourcing request. The owner of the sourcing event sends it to suppliers for bidding, and awards the event. The award information is sent back to SAP S/4HANA Cloud.

Configuring Sourcing Requests Using SOAP Web Service for SAP S/4HANA Cloud

If your system is integrated with SAP S/4HANA Cloud, you can configure it to send sourcing requests automatically from SAP S/4HANA Cloud to SAP Ariba Sourcing, and send award information back to SAP S/4HANA Cloud.

SOAP web service is used to send information between an ERP system that is not an SAP ERP system and SAP Ariba Sourcing.

Prerequisites

Your system must be integrated with SAP S/4HANA Cloud.

> **Note**
>
> The status of each supplier must be Public.
>
> The SAP ERP vendor key information, including the vendor ID, must be updated for each supplier.

Your system must be enabled to create sourcing requests using SAP S/4HANA Cloud integration.

Contact SAP Ariba Support to enable the site configuration parameter `Application.ACM.S4Hana.DefaultSourcingProjectTemplate`.

An end point must be configured for the SOAP web service. For information on end points and other configuration information for SOAP web service, see Configuring an End Point for SOAP Web Services.

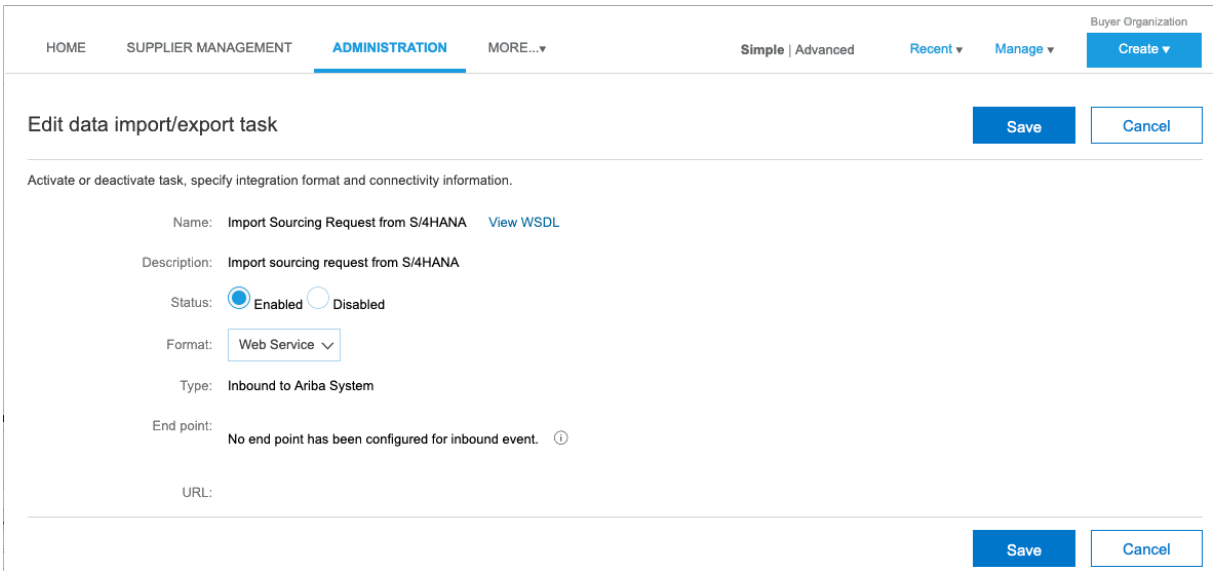
To configure sourcing requests on SAP S/4HANA Cloud, you must be a member of one of the following:

- **Customer Administrator** group (access to this group must be approved by SAP Ariba)
- **Integration Admin** group
- A group with the **Administrator** or **Integration Admin** role

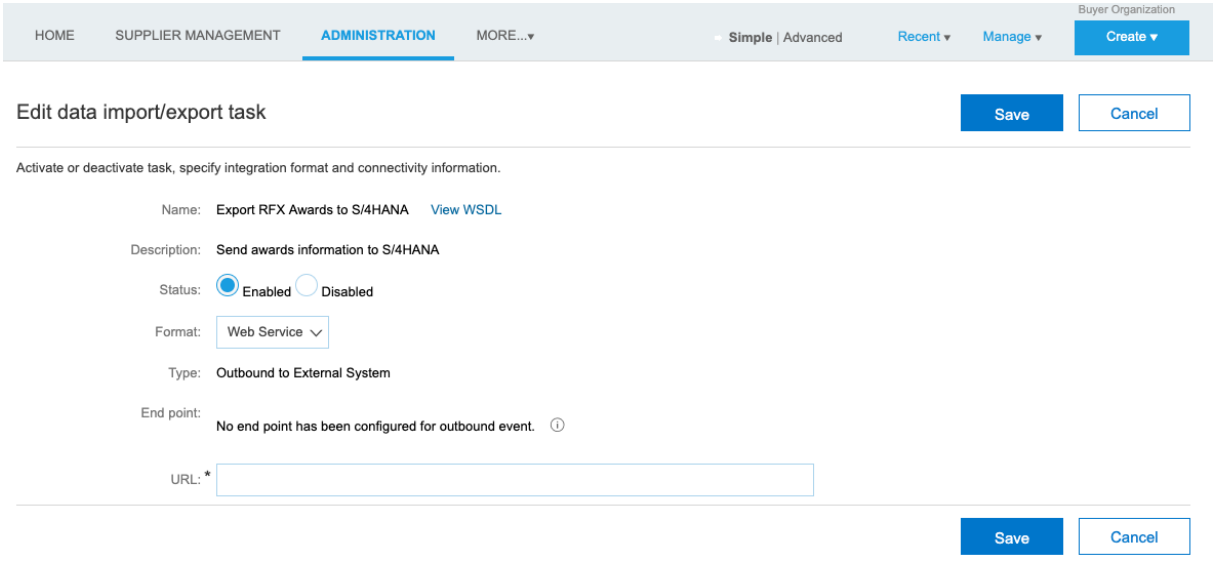
Procedure

1. On the SAP Ariba Administrator dashboard, click **Manage** > **Administration**.
2. Click the expansion arrow for **Integration Manager**.
3. Choose **Integration Configuration**.
4. Find the **Import Sourcing Request from S/4HANA** task by selecting **List All** or enter it in the search criteria and click **Search**.
5. Click **Actions** > **Edit** for the task.

   An **Edit data import/export task** pane opens.



6. In the **Status** field, select **Enabled**.
7. Use the pull-down menu for the **End point** field to select an end point.
8. Click **Save**.
9. Repeat steps 4 - 7 for the **Export RFX Awards to S/4HANA** task.



10. Specify the URL for the corresponding end point on the ERP system.
11. Click **Save**.
12. Click **View WSDL** to view the XML file.

Next Steps

Generate the WSDL files for the tasks. For details on generating WSDL files, see Generating a WSDL File.

Using SOAP Web Service for BOM Upload

You can use the BOM upload SOAP web service to upload bill of materials (BOM) documents from external systems.

> **Note**
>
> If your SAP Ariba Strategic Sourcing Suite solution is integrated with an SAP PLM system, you can use features included in SAP Ariba Cloud Integration 8.0 or later to automatically upload BOMs to SAP Ariba Strategic Sourcing Suite; you do not need to create an application using the BOM Upload SOAP web service.

If the external system is an SAP system, you must also import material master data from SAP using the SAP Material Master Data Integration feature. For more information, see SAP Material Master Data Integration.

The BOM Upload SOAP web service (`BOMRequestsService`) receives `BOMUploadRequest` messages from an external system and responds with `BOMUploadResponse` messages.

BOMUploadRequest [page 67]

BOMUploadResponse [page 70]

BOM Volume Upload [page 71]

BOMUploadRequest

ERPId

ID of the external system. This must match an external system ID configured on the **Master Data Manager** > **External System** page.

Realm

Your SAP Ariba Sourcing site name. If you do not know your site name, you can get it from your SAP Ariba representative.

FullLoad

A Boolean value that indicates if this is a full load.

BOM

A `BOMUploadRequest` contains 0 or more `BOM` elements. Each `BOM` element represents a BOM and contains the following child elements:

- `BOMHeader` (header information for the BOM)
- `BOMPlant` (plant used for the BOM)
- `BOMComponent` (one for each BOM line item)

Table 3: BOMHeader Elements

Element	Description	Required
`Material`	SAP Ariba **Item ID** field.	Y
`BOMCategory`	As defined by the external system (not shown and not used).	Y
`BOMNo`	BOM number as defined by the external system (not shown).	Y
`AlternativeBOM`	As defined by the external system (not shown). SAP uses the BOMNo and AlternativeBOMNo to indicate a different versions of a BOM; the BOMNo combined with the AlternativeBOM form a unique identifier.	Y
`ValidFromDate`	Start date for the BOM's validity period (*`yyyy`* - *`mm`* - *`dd`*; not shown).	Y
`Usage`	As defined by the external system (not shown and not used).	Y
`ValidToDate`	End date for the BOM's validity period (*`yyyy`* - *`mm`* - *`dd`*; not shown).	Y
`BOMStatus`	As defined by the external system (not shown and not used).	Y
`BaseQuantity`	As defined by the external system (not shown and not used).	Y
`BOMGroup`	As defined by the external system (not shown and not used).	N
`BOMText`	As defined by the external system (not shown).	N
`AlternativeBOMTxt`	As defined by the external system (not shown).	N
`BOMDeletionFlag`	If true, the BOM was deleted on the external system. SAP Ariba will remove this BOM.	N
`CreationDate`	As defined by the external system (*`yyyy`* - *`mm`* - *`dd`*; not shown, but used for auditing). SAP uses this field for the creation date of the BOM.	Y
`ChangeDate`	SAP Ariba **Date last modified** field.	N
`ChangeNo`	SAP Ariba **Change Number** field.	N
`ChangeNumberTo`	As defined by the external system (not shown and not used).	N
`BOMPlant`	As defined by the external system. Contains the following child element: `Plant`.	Y

Table 4: BOMComponent Elements

Element	Description	Required
`Component`	SAP Ariba **Item ID** field for the child (this item).	Y
`ItemCategory`	As defined by the external system (not shown and not used).	Y
`ItemGroup`	SAP Ariba **Item Group** field. Interchangeable or replacement parts have same `ItemGroup` value.	Y
`BOM_No`	BOM number for the parent (must match the `BOMNo` in the `BOMHeader`).	Y
`AlternativeBOM`	As defined by the external system (not shown). SAP uses the `BOMNo` and `AlternativeBOMNo` to indicate a different versions of a BOM; the `BOMNo` and the `AlternativeBOM` together form a unique identifier.	Y
`ItemNumber`	As defined by the external system (not shown and not used).	Y
`ItemNodeNumber`	As defined by the external system (not shown). The `BOMNo`, `AlternativeBOMNo`, and `ItemNodeNumber` together form a unique identifier.	Y
`InternalCounter`	As defined by the external system (not shown and not used).	Y
`ValidFromDate`	Start date for the item's validity period (*`yyyy`* - *`mm`* - *`dd`*)	Y
`PMAssemblyIndicator`	As defined by the external system (not shown and not used).	Y
`ValidToDate`	End date for the item's validity period (*`yyyy`* - *`mm`* - *`dd`*).	Y
`ItemText1`	As defined by the external system (not shown). If the external system is SAP, this is a user-defined field.	Y
`ItemText2`	As defined by the external system (not shown). If the external system is SAP, this is a user-defined field.	Y
`SortString`	**Used for display order.**	Y
`MaterialProvisionIndicator`	As defined by the external system (not shown and not used).	Y
`Priority`	As defined by the external system (not shown and not used).	Y
`Strategy`	As defined by the external system (not shown and not used).	Y
`UsageProbability`	As defined by the external system (not shown and not used).	Y
`ReferenceDesignator`	As defined by the external system (not shown and not used).	Y
`FixedQty`	SAP Ariba **Quantity** field for the item. Can be used to indicate a quantity ratio relative to the parent, such as 2 tires for a parent bicycle assembly.	Y
`UnitOfMeasure`	SAP Ariba **Unit of Measure** field.	Y
`BOMRecursiveIndicator`	As defined by the external system (not shown and not used).	Y
`DeletionIndicator`	If true, the item was deleted on the external system. SAP Ariba will remove this item.	Y
`CreationDate`	As defined by the external system (*`yyyy`* - *`mm`* - *`dd`*; not shown, but used for auditing). SAP uses this field for the creation date of the BOM.	Y
`ChangeDate`	The date the BOM was last revised.	N

Element	Description	Required
`ChangeNo`	SAP Ariba **Change Number** field.	N
`ChangeNumberTo`	As defined by the external system (not shown and not used).	N
`RequiredComponent`	As defined by the external system (not shown and not used).	Y
`MaterialGroup`	As defined by the external system (not shown and not used).	Y
`Price`	As defined by the external system (not shown and not used). SAP Ariba ignores any values; use a simple RFx event to get values from suppliers. Contains the following child elements: Amount and BaseQuantity.	Y
`PriceUnit`	As defined by the external system (not used). SAP Ariba ignores the value; use a simple RFx number event to get values from suppliers.	Y
`PurchasingGroup`	As defined by the external system (not used). SAP Ariba ignores the value; specify the purchasing group in the simple RFx.	Y
`PurchasingOrganization`	As defined by the external system (not used). SAP Ariba ignores the value; specify the purchasing organization in the simple RFx.	Y
`SupplierID`	As defined by the external system (not used). SAP Ariba ignores the value and uses the value from material master data for the item.	Y
`DeliveryTime`	As defined by the external system (not used). SAP Ariba ignores the value; use a simple RFx number event to get values from suppliers.	Y

BOMUploadResponse

ERPId

ID of the external system. This matches the `ERPId` sent in the request.

Realm

Your SAP Ariba Sourcing site name. This matches the `Realm` sent in the request.

ResponseBody

Contains an error message if `ResponseCode` is `500`.

ResponseCode

`200` (success) or `500` (server error).

BOM Volume Upload

You can use SOAP web service to import BOM volume data from external systems. The SOAP web service for import (`MaterialVolumeUpload`) receives `MaterialVolumeUploadRequest` messages from an external system and responds with `MaterialVolumeUploadResponse` messages.

SAP Ariba uses a SOAP Request to upload volume information from external system. The SOAP Request validates the data received for the following validations:

- Incorrect Item ID
- Incorrect Plant ID
- Invalid Dates
- Invalid Date range
- Duplicates
- Overlapping Date ranges

MaterialVolumeUploadRequest

You can use `MaterialVolumeRequest` to upload volume information from external systems.

ERPId

ID of the external system. This must match an external system ID configured on the **Master Data Manager** > **External System** page.

Realm

Your SAP Ariba Sourcing site name. If you do not know your site name, you can get it from your SAP representative.

CreationDate

As defined by the external system (yyyy-mm-dd; not shown, but used for auditing). SAP uses this field for the creation date of the BOM.

VolumeList

`MaterialVolumeUploadRequest` contains 1 or more `VolumeInfo` elements.

- `VolumeInfo`: Each `VolumeInfo` element represents the volume information of a BOM and contains the following child elements:

Table 5: VolumeInfo Elements

Element	Description	Required
MaterialId	SAP Ariba **Item ID** field.	Y
Plant	The plant ID as defined in the external system.	Y
UOM	Unit of Measurement used in the external system.	Y
VolumeType	Type of volume information imported from the external system.	Y
FromDate	Start date for importing volume information for a BOM.	Y
ToDate	End date for importing volume information for a BOM.	Y
Quantity	Quantity or volume of the items in BOM.	Y

MaterialVolumeUploadResponse

ERPId

ID of the external system. This matches the `ERPID` sent in the request.

Realm

Your SAP Ariba Sourcing site name. This matches the `Realm` sent in the request.

ResponseBody

Contains either success or error message, depending on the `ResponseCode`.

ResponseCode

`200` (success), `400` (server error), and `500` (fail)

Using PDX Web Service

You can use the PDX web service to upload bill of materials (BOM) documents in Product Data eXchange (PDX) format from an external system or file.

> **Note**
>
> If your SAP Ariba Strategic Sourcing Suite solution is integrated with an SAP PLM system, you can use features included in SAP Ariba cloud integration 8.0 or later to automatically upload BOMs to SAP Ariba Strategic Sourcing Suite; you do not need to create an application using the BOM upload PDX web service.

In sites integrated with SAP ERP, you can preload master data and use PDX to load BOMs. SAP Ariba creates a placeholder if the part does not already exist. The placeholder part is replaced with the actual part when it arrives in the latest version of the BOM. See Bill of Materials (BOM) [page 158] for information about placeholder parts.

PDX web service uses standard field mapping. You can also map item material master data received from SAP ERP to custom (new) product sourcing fields for items in BOMs and material lists. See Creating Maps for Standard Product Sourcing Fields [page 98] and Creating Maps for Custom Product Sourcing Fields [page 100].

The BOM upload PDX web service conforms to the Representational State Transfer (REST) architecture model. The BOM upload PDX web service accepts HTTP POST requests that contain BOM data in PDX format. The PDX data must conform to the IPC-2578 standard, which is part of the IPC 2570 series of specifications published by the Association Connecting Electronics Industries.

Restrictions

If you have multiple PDX files, they must have the same structure. If you have multiple BOMs in one PDX file, they must have the same structure.

The maximum PDX file size is 100 MB.

- Manually Uploading PDX Files [page 74]
- BOM Upload PDX Web Service Request [page 74]
- BOM Upload PDX Web Service Responses [page 75]
- BOM PDX Document Elements [page 75]

BOM PDX Example [page 77]

Manually Uploading PDX Files

You can use the BOM upload PDX file service to upload a BOM document from a local PDX file.

Prerequisites

To manually upload Product Data eXchange (PDX) files, you must be a member of one of the following groups:

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

The source system for importing and processing PDX files is your default SAP ERP system.

Suppliers in the PDX data transfer must exist in your sourcing solution.

The file name must be `.pdx` and the file must contain a `pdx.xml` file inside it.

Procedure

1. Go to **Import PDX** located in the **Product Sourcing Manager** area on the **Administration** tab.
2. Choose or drag the `.pdx` file you want to load.

   Only one PDX file can be loaded at a time. Dragging and dropping several PDX files at once will cause the last file to overwrite everything from the previous file.
3. Click **Import**.

Next Steps

Your request is placed in a queue to be processed by a regularly scheduled task. Check the status of your request in the **Import Requests** area below the **Import** button.

After the PDX file is processed by the scheduled task, you can see the BOM in the **Product Sourcing** tab.

BOM Upload PDX Web Service Request

Send BOM PDX data in an HTTP POST request to the following URL:

```
https://mySAPAribaSourcingDomain/dms/bom/uploadPDX?realm=myAribaSiteName&erpId=
mySAPERPId&fileName=fileName
```

Where:

- *mySAPAribaSourcingDomain* 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`.
- *mySAPAribaSiteName* is your site name for the SAP Ariba Sourcing solution. If you do not know your site name, you can get it from your SAP representative.
- *mySAPERPId* is the PDX default SAP ERP external system assigned to your realm.
- *fileName* is the name of the file you are sending. The file name must be `.pdx` and the file must contain a `pdx.xml` file inside it.

BOM Upload PDX Web Service Responses

Response Codes

- 200 OK: Contents accepted for loading.
- 500 Internal Server Error: An error occurred.

Sample Payload

```
{
    "status": "OK",
    "statusCode": 200,
    "fetchSize": 0,
    "pageNumber": 1,
    "totalRecordsRetrieved": 0,
    "totalRecords": 0,
    "totalPages": 1,
    "errorMessages": [],
    "debugInfo": {
        "requestProcessingTime": 511,
        "storeProcessingTime": null
    },
    "erpId": "dms",
    "realmId": "s4All-17",
    "responseBody": null,
    "responseCode": "200"
    "uniqueName": "Q13601"
}
```

BOM PDX Document Elements

The BOM PDX document contains an `Items` element with one or more `Item` elements. SAP Ariba Strategic Sourcing Suite accepts all child elements of an `Item` element, but uses data from only the following elements:

- `AdditionalAttributes`
- `BillOfMaterial`
- `ApprovedManufacturerList`

SAP Ariba Strategic Sourcing Suite ignores data sent in all other child elements of `Item` elements (`History`, `Attachments`, `ChangeHistory`, `Characteristics`, `AlternateItems`, `SerialNumbers`, and `AlternateIdentifiers`).

An `Item` element can describe a BOM or material. If an `Item` describes a BOM, the identities of the child materials or BOMs are specified as follows:

```
<BillOfMaterial>
   <BillOfMaterialItem billOfMaterialItemIdentifier="child_itemIdentifer" ...>
```

Where: *`child_itemIdentifier`* corresponds to the `itemIdentifier` attribute value of the `Item` that describes the child.

An `Item` element can also contain an `ApprovedManufacturerList` element that contains AML entries for the item. The `ApprovedManufacturerList` contains one or more `ApprovedManufacturerListItem` elements; each of these elements contain manufacturer information for the item.

Item Attributes

SAP Ariba Strategic Sourcing Suite uses the following attribute values specified for an `Item` element:

Item attribute...	Description
`description`	Stored by SAP Ariba and displayed in the SAP Ariba **Name** field for the item.
`itemIdentifier`	Stored by SAP Ariba and displayed in the SAP Ariba **Item ID** field for the item.
`globalProductUnitOfMeasureCode`	Stored by SAP Ariba and displayed in the SAP Ariba **Unit of Measure** field for the item.
`itemClassification`	Stored by SAP Ariba but not displayed.
`makeBuy`	Stored by SAP Ariba but not displayed.
`<AdditionalAttributes groupLabel="OnePDM">` (child element)	Stored by SAP Ariba but not displayed.
`<AdditionalAttribute name="PartTypeId" value="nnn" />` (child element)	Stored by SAP Ariba and displayed in the SAP Ariba **Part Type ID** field. This value is also mapped to the **Party Type** for the item if the **Part Type ID** is already in your product sourcing solution.

In addition, SAP Ariba sets the **Valid From** field for the item to the date it receives the PDX.

BillOfMaterialItem Attributes

SAP Ariba Strategic Sourcing Suite uses the following attribute values specified for a `BillOfMaterialItem` element:

BillOfMaterial attribute	Description
`billOfMaterialItemIdentifier`	Stored by SAP Ariba and displayed in the SAP Ariba **Item ID** field (refers to the `Item` with the same value in the `itemIdentifier` attribute).
`itemQuantity`	Stored by SAP Ariba and displayed in the SAP Ariba **Quantity** field.

ApprovedManufacturerListItem Attributes and Child Elements

SAP Ariba Strategic Sourcing Suite uses the following attribute values and child elements for an `ApprovedManufacturerListItem` element:

ApprovedManufacturerListItem attribute or child element	Description
`manufacturerPartIdentifier` (attribute)	Stored by SAP Ariba and displayed in the SAP Ariba **Supplier Item ID** field.
`<AdditionalAttribute name="SAPVendorId" value="`*nnn*`"/>` (child element)	Stored by SAP Ariba and displayed in the SAP Ariba **SAP Vendor ID** field. This value is also mapped to a SAP Ariba strategic sourcing solutions supplier ID, which is displayed in the SAP Ariba **Supplier ID** field.
`<AdditionalAttribute name="Vendor Legal Name" value="`*nnn*`"/>` (child element)	Stored by SAP Ariba and displayed in the SAP Ariba **Supplier Name** field.

BOM PDX Example

```
<?pdx_version 1.0?>
<ProductDataeXchangePackage dataSource="Sample" originatedByContactName="Anonymous"
originatedByContactUniqueIdentifier="MS.Anonymous" thisDocumentCopyright="Contents
copyrighted by SAP" thisDocumentGenerationDateTime="2017-03-13T03:20:06"
thisDocumentIdentifier="111a3671-7fce-1757-b0f0-b5c61f135360"
thisDocumentModificationDateTime="2017-03-13T09:20:06">
  <AdditionalAttributes groupLabel="Group1">
    <AdditionalAttribute name="pdxDsName_ItemId" value="ECO-00001292" />
    <AdditionalAttribute name="pdxDsName_ItemName" value="Package parts updates for
SKU 5C5-00051" />
    <AdditionalAttribute name="pdxDsName_RevId" value="" />
    <AdditionalAttribute name="PDXFileName" value="pdx.xml" />
  </AdditionalAttributes>
  <Items>
    <Item description="PCBA,RETAIL" globalLifeCyclePhaseCode="Production"
globalLifeCyclePhaseCodeOther="" globalProductTypeCode="ElectroMech"
globalProductUnitOfMeasureCode="EA" isTopLevel="No" itemClassification="PCB
Assembly" itemIdentifier="X333611-001" itemUniqueIdentifier="id20111"
makeBuy="Buy" proprietaryProductFamily="family" revisionIdentifier="A-1"
revisionReleasedDate="2015-01-11T20:30:20">
      <AdditionalAttributes groupLabel="Group1">
        <AdditionalAttribute name="PartTypeId" value="Strategic" />
        <AdditionalAttribute name="UpdateBomAml" value="1" />
      </AdditionalAttributes>
      <BillOfMaterial>
```

```
        <BillOfMaterialItem billOfMaterialItemIdentifier="X200367-001"
billOfMaterialItemUniqueIdentifier="id3631" description="RES-FXD,SM,0
OHM,3%,1/16W,0101,JUMPER,PREFERRED" itemQuantity="1" notes=""
proprietarySequenceIdentifier="30" revisionIdentifier="E">
          <AdditionalAttributes groupLabel="Group1">
            <AdditionalAttribute name="BOM Notes" value="" />
          </AdditionalAttributes>
          <ReferenceDesignators>
            <ReferenceDesignator referenceDesignatorName="R113" />
          </ReferenceDesignators>
        </BillOfMaterialItem>
      </BillOfMaterial>
      <ApprovedManufacturerList>
        <ApprovedManufacturerListItem globalManufacturerPartStatusCode="Other"
globalManufacturerPartStatusCodeOther="Qualified"
globalPreferredStatusCode="Preferred" manufacturedBy="ABC"
manufacturerContactUniqueIdentifier="id5171"
manufacturerPartIdentifier="X333611-001" manufacturerPartUniqueIdentifier="id511">
          <AdditionalAttributes groupLabel="Group1">
            <AdditionalAttribute name="DUNS Number" value="" />
            <AdditionalAttribute name="SAPVendorId" value="0007020111" />
            <AdditionalAttribute name="Vendor Legal Name" value="ABC" />
          </AdditionalAttributes>
        </ApprovedManufacturerListItem>
      </ApprovedManufacturerList>
    </Item>
    <Item description="RES-FXD,SM,0 OHM,3%,1/16W,0101,JUMPER,PREFERRED"
globalLifeCyclePhaseCode="Production" globalLifeCyclePhaseCodeOther=""
globalProductTypeCode="Electrical" globalProductUnitOfMeasureCode="EA"
isTopLevel="No" itemClassification="Resistor" itemIdentifier="X200367-001"
itemUniqueIdentifier="id3631" makeBuy="Buy" proprietaryProductFamily="Foo GLOBAL
PARTS" revisionIdentifier="E" revisionReleasedDate="2013-01-16T13:33:11">
      <AdditionalAttributes groupLabel="Group1">
        <AdditionalAttribute name="PartTypeId" value="Strategic" />
        <AdditionalAttribute name="UpdateBomAml" value="1" />
      </AdditionalAttributes>
      <ApprovedManufacturerList>
        <ApprovedManufacturerListItem globalManufacturerPartStatusCode="Other"
globalManufacturerPartStatusCodeOther="Qualified"
globalPreferredStatusCode="Preferred" manufacturedBy="XYZ
CORPORATION" manufacturerContactUniqueIdentifier="id3376"
manufacturerPartIdentifier="RC0101JR-7D0RL"
manufacturerPartUniqueIdentifier="id3713">
          <AdditionalAttributes groupLabel="Group1">
            <AdditionalAttribute name="DUNS Number" value="" />
            <AdditionalAttribute name="SAPVendorId" value="0007010071" />
            <AdditionalAttribute name="Vendor Legal Name" value="XYZ
CORPORATION" />
          </AdditionalAttributes>
        </ApprovedManufacturerListItem>
      </ApprovedManufacturerList>
    </Item>
  </Items>
</ProductDataeXchangePackage>
```

Using CSV Files

You can use CSV files to import bill of materials (BOM) from external systems, such as ERP and PLM systems, to the SAP Ariba Strategic Sourcing Suite. Support for CSV file-based BOM import enables you to import BOMs from external systems that are not integrated with SAP Ariba Strategic Sourcing Suite.

To support integration of BOM data from CSV files, SAP Ariba Strategic Sourcing Suite product sourcing provides a standard mapping for item master fields. You can download a sample CSV file that is based on the standard mapping from the **Import BOM** page or create a custom CSV file.

The fields that are mandatory for successful validation of a BOM are added to the template by default. You can choose the optional fields from the list of standard or custom fields provided in the UI.

You can edit or update the standard mapping as necessary. If you need to add additional fields that are not part of the standard mapping, you can use the custom field mapping option to add the necessary fields. Review and complete the mapping before you import BOM files.

> **Note**
>
> If a required field is not available in the list, you can add new custom fields.
>
> For the list of mandatory and optional standard fields, see Validation Criteria for CSV File-Based BOM Upload [page 79].

You can perform the following tasks in bulk by using the BOM CSV file:

- assign an owner for a material by specifying the unique identifier of the owner in the `OwnerID` field.
- assign one or more AML suppliers for a material by providing a comma-separated list of the SAP vendor identifiers for the suppliers in the `SupplierID` field.
- delete AML supplier associations from a material by providing a comma-separated list of the SAP vendor identifiers for the supplier in the `DeletedSupplierID` field.
- delete plant associations from a BOM by providing a comma-separated list of the SAP Plant ID in the `DeletedPlantID` field. Note that `PlantID` is a mandatory field and must contain at least one value that is different from the ones given in the `DeletedPlantID` field.

The following fields are automatically assigned or generated in the BOM data:

AlternateBOMNumber	If this field is not included in the BOM CSV file or is left blank, the default value of `01` is assigned.
Usage	If this field is not included in the BOM CSV file or is left blank, the default value of `01` is assigned.
ItemNumber	This field is not part of the BOM CSV file and is auto-generated in the BOM data.
ItemNodeNumber	This field is not part of the BOM CSV file and is auto-generated in the BOM data.

After you upload a CSV file, SAP Ariba Strategic Sourcing Suite product sourcing validates the contents of the CSV file and on successful validation, stages the BOM data to SAP Ariba.

Validation Criteria for CSV File-Based BOM Upload

For successful validation of the BOM data, the fields marked mandatory in the following column must be present in the CSV file and meet the validation criteria specified in the corresponding description column of the table. You can choose not to include the optional fields in the CSV file. However, if you include any of the optional field, ensure that the values meet the validation criteria as explained in the description field.

Field	Mandatory/ Optional	Description
Level	Mandatory	Enter an integer value to indicate the hierarchical position of an entry in BOM. The topmost level entry is level 1.
MaterialNumber	Mandatory	Enter a material number. If the material number does not have an entry in Ariba Sourcing, a new material will be added in Ariba Sourcing. The number of characters in the material number string should not exceed 40.
BOMNumber	Mandatory	Enter a unique string of not more than 40 characters to identify the BOM.
BOMCategory	Mandatory	Enter a two-character notation to indicate the BOM Category. Supported categories are material BOM and service BOM.
ValidFromDate	Mandatory	Enter a date in the YYYY-MM-DD format to indicate the valid-from date for the BOM.
ValidToDate	Mandatory	Enter a date, greater than the ValidFromDate, in the YYYY-MM-DD format to indicate the valid-to date for the BOM. To delete a BOM entry, enter a past date in this field.
PlantID	Mandatory	Enter at least one valid SAP Plant ID. Can contain more than one SAP Plant IDs as a comma-separated list. This field is applicable only at the header level.
ItemCategory	Mandatory	Enter the item category of the BOM component. Supported values are: D (Document item) | I (PM structure element) | K (Class item) | L (Stock item) | M (Intra material) | N (Non-stock item) | R (Variable-size item) | T (Text item) **Note** To send `ItemCategory` values back to the SAP ERP system (such as values for items in event data or contract line items documents), the `ItemCategory` values must be in English.
AlternateBOMNumber	Optional	Enter a unique string of not more than five characters to assign a alternative BOM number for variant BOMs. If you leave this field blank, Ariba Sourcing adds the default value, 01, as the alternate BOM number.
TechnicalType	Optional	Enter a two-character string to identify the technical type of the BOM, such as variant BOM and multi BOM.
Usage	Optional	Enter a value of not more than two characters to indicate the BOM usage such as production, research and development, and so on. If you leave this field blank, Ariba Sourcing adds the default value, 01, as the alternate BOM number.
DeletedPlantId	Optional	Enter valid SAP Plant IDs (other than the ones entered in the PlantID column) that you want to delete from the BOM. You can enter more than one SAP Plant IDs associated with the BOM in a comma-separated list.
SupplierId	Optional	Enter the SAP vendor identifier for the suppliers that you want to associate with the material. The Supplier information should be present in Ariba Sourcing.

Field	Mandatory/ Optional	Description
DeletedSupplierId	Optional	Enter SAP vendor identifiers for the suppliers that you want to delete from the BOM. If there are more than one suppliers, enter in a comma-separated list.
OwnerId	Optional	Enter the unique identifier of the owner you want to assign to a material. The owner ID must be present in Ariba Sourcing.
UOM	Optional	Enter a string of not more than three characters to indicate the unit of measure. The unit of measure value should be available in Ariba Sourcing.
Quantity	Optional	Enter an integer value to indicate the quantity of the material.
BOMGroup	Optional	Enter a string of not more than 40 characters to indicate BOM grouping. This isn't currently supported in Ariba Sourcing and this field is a placeholder for future use.
BOMStatus	Optional	Enter a string to indicate the status of BOM. This isn't currently supported in Ariba Sourcing and this field is a placeholder for future use.
BOMText	Optional	Enter the BOM text maintained in the BOM header as a string of not more than 40 characters. This is not currently supported in Ariba Sourcing and this field is a placeholder for future use.
AlternateBOMText	Optional	Enter the alternative BOM text maintained in the BOM header as a string of not more than 40 characters. This isn't currently supported in Ariba Sourcing and this field is a placeholder for future use.
ItemGroup	Optional	Enter a string of not more than 40 characters to identify the alternative BOM group; you can use alternative BOM groups when there are several alternative components in an assembly.
ItemText1	Optional	Enter a string of not more than 40 characters as the item text for the BOM component. This isn't currently supported in Ariba Sourcing and this field is a placeholder for future use.
ItemText2	Optional	Enter a string of not more than 40 characters as the item text for the BOM component. This isn't currently supported in Ariba Sourcing and this field is a placeholder for future use.
ChangeNumber	Optional	Enter the change number for the BOM as string of not more than 12 characters. This isn't currently supported in Ariba Sourcing and this field is a placeholder for future use.
MaterialName	Optional	Enter the name of the material as referenced in the BOM; can be a string of not more than 255 characters.
MaterialDescription	Optional	Enter a description for the material; can be a string of not more than 255 characters.
MaterialClassPath	Optional	Enter the class path of the material; can be a string of not more than 255 characters.
MaterialMaturityLevel	Optional	Enter the maturity level of the material; can be a string of not more than 255 characters.
MaterialStatus	Optional	Enter the status of the material; can be a string of not more than 255 characters.
MaterialProject	Optional	Enter the type of project associated with the material; can be a string of not more than 255 characters.

Field	Mandatory/ Optional	Description
MaterialPartType	Optional	Enter the unique identifier for the part type of the material as given in Ariba Sourcing; can be a string of not more than 255 characters.
MaterialGroup	Optional	Enter the unique identifier for the material group as given in Ariba Sourcing; can be a string of not more than 255 characters.

Prerequisites for CSV File-Based BOM Upload

This section lists the prerequisites for importing BOM data from ERP systems to SAP Ariba Strategic Sourcing Suite by using CSV files.

- Work with SAP Ariba Customer Support to configure the following site parameters:
  - `BOM_V2_ENABLED`

    > **Note**
    >
    > The `BOM_V2_ENABLED` parameter is enabled by default for all sites deployed after January 2020. For more information about the `BOM_V2_ENABLED` parameter, see Supported Bill of Materials (BOM) Types [page 160].

  - `DEPLOYMENT_MODE.BOM_SUPPORTED`
  - `BOM_UPLOAD.MAX_ITEMS_IN_CSV` (this parameter specifies the maximum number of items allowed in the import CSV file. Set a value based on your requirements.)
- You must be a member of one of the following groups:
  - Customer Administrator (access to this group must be approved by SAP Ariba)
  - Material Administrator
  - BOM Manager

Viewing and Modifying Field Mappings for CSV File-Based BOM Integration

Prerequisites

Ensure that the prerequisites listed in Prerequisites for CSV File-Based BOM Upload [page 82] are met.

Context

Buyers using product sourcing features of SAP Ariba Strategic Sourcing Suite can now use CSV files to import bill of materials (BOM) from ERP systems to the SAP Ariba Strategic Sourcing Suite. To support CSV file-based BOM

integration, SAP Ariba Strategic Sourcing Suite by default provides a standard mapping for item master fields and a sample CSV file based on the field mapping.

You can download the sample CSV file to view the fields that are part of the current mapping and view and modify the fields, as necessary, in the standard and custom mappings.

Procedure

1. From the SAP Ariba Strategic Sourcing Suite user interface, click **Administration** > **Product Sourcing Manager** > **Import BOM**.

   The Import BOM page appears.
2. Click the **Click here for sample CSV** link to download the sample CSV file that is based on the configured field mapping.

   The sample CSV file, `SampleImportBOM.csv`, is downloaded.
3. Review the CSV file and the field mappings. For more information about viewing and modifying the field mappings, see:

Creating a Custom CSV File for BOM Upload

You can create the custom templates for CSV-file-based BOM upload from the **BOM import** page.

Prerequisites

- Ensure that the following site parameters are enabled:
  - `BOM_V2_ENABLED`

    > **Note**
    >
    > The `BOM_V2_ENABLED` parameter is enabled by default for all sites deployed after January 2020. For more information about the `BOM_V2_ENABLED` parameter, see Supported Bill of Materials (BOM) Types [page 160].
  - `DEPLOYMENT_MODE.BOM_SUPPORTED`

    > **Note**
    >
    > These parameters are set to TRUE for sites that are configured to use BOM data; if these are not enabled for your site, contact SAP Ariba Support.
- You must be a member of one of the following groups:
  - **Materials Administrator**
  - **Customer Administrator** (access to this group must be approved by SAP Ariba)

- Add custom fields as necessary by following the instructions given in the Creating Maps for Custom Product Sourcing Fields [page 100] topic.

Context

Buyers can create the custom templates for CSV-file-based BOM upload from the **BOM import** page of SAP Ariba Strategic Sourcing Suite product sourcing. The fields that are mandatory for successful validation of a BOM are added to the template by default. You can choose the optional fields from the list of standard or custom fields provided in the UI.

The following fields are automatically assigned or generated in the BOM data:

AlternateBOMNumber	If this field is not included in the BOM CSV file or is left blank, the default value of `01` is assigned.
Usage	If this field is not included in the BOM CSV file or is left blank, the default value of `01` is assigned.
ItemNumber	This field is not part of the BOM CSV file and is auto-generated in the BOM data.
ItemNodeNumber	This field is not part of the BOM CSV file and is auto-generated in the BOM data.

Procedure

1. Sign in to the Ariba Strategic Sourcing Suite.
2. Click **Product Sourcing Manager**.

   The Product Sourcing Manager dashboard appears.
3. Click **Import BOM**.

   The Import BOM page appears.
4. From the **Select the ERP for which you want to import BOM data** list, select the external system ID of the ERP from which you want to import the BOM.
5. Click the **Create sample CSV** button.

   The **Create sample CSV** page appears.

   > ⓘ Note
   >
   > On the **Create sample CSV** page, the mandatory BOM fields are by default selected and cannot be unselected.
6. Select the optional BOM fields that you want to include in the CSV file by selecting the appropriate fields from the list of standard and custom fields.

   If a custom field is not available in the list, create the custom field mapping as explained in Creating Maps for Custom Product Sourcing Fields [page 100].
7. After you select all the fields that you want to include in the CSV file, click **Create**.

   A CSV file that contains the mandatory fields and the selected optional fields is generated and downloaded.

You can fill in the necessary data and upload the BOM CSV file to SAP Ariba Strategic Sourcing Suite. For more information about importing BOM data using CSV files, see How to import a BOM by using a CSV file.

Importing a BOM by Using a CSV File

Buyers using product sourcing features of SAP Ariba Strategic Sourcing Suite can now import BOM data from ERP systems by using CSV files.

Prerequisites

- Ensure that the prerequisites listed in Prerequisites for CSV File-Based BOM Upload [page 82] are met.
- View and modify, as necessary, the field mappings as explained in Viewing and Modifying Field Mappings for CSV File-Based BOM Integration [page 82]
- Ensure that the CSV file contents meet the validation criteria specified in Validation Criteria for CSV File-Based BOM Upload [page 79].

Procedure

1. Sign in to the Ariba Strategic Sourcing Suite.
2. Click **Product Sourcing Manager**.

   The Product Sourcing Manager dashboard appears.
3. Click **Import BOM**.

   The Import BOM page appears.
4. From the **Select the ERP for which you want to import BOM data** list, select the external system ID of the ERP from which you want to import the BOM.
5. Select the CSV file that contains the BOM data that you want to import. You can either drag and drop the file to the **Choose a file or drag it here** button or click the button to browse and select the file.
6. After you select the file, click **Import** to upload the file and import the BOM data. To cancel the selection, click **Cancel**.

   When the file upload is complete, an Import Successful message appears on the screen to indicate that the CSV file has been uploaded successfully. However, this does not indicate the success of BOM data import. You can view the status of the BOM import job in the table at the bottom of the page. You can filter the list of BOM import jobs based on the date range, the BOM import status, or both.

Results

After the CSV file is successfully uploaded, SAP Ariba Strategic Sourcing Suite validates the contents of the CSV file. If no validation errors are found, the BOM is staged to SAP Ariba Strategic Sourcing Suite.

Related Information

Product Sourcing Personas and User Groups [page 14]

Viewing CSV File-Based BOM Import Status

You can view the status of the CSV file-based BOM import tasks and also search for BOM import tasks based on the date range or import status, or a combination of both from SAP Ariba Strategic Sourcing Suite product sourcing.

Prerequisites

Ensure that the prerequisites listed in Prerequisites for CSV File-Based BOM Upload [page 82] are met.

Context

When you do a BOM upload by using a CSV file, an entry of the import job appears in the Import BOM page. The table contains a link to the CSV file, the status of the import job, and description of error in case of a failure other than a validation error. In case of a validation error, you can click the Validation Failed link to view details about the validation error.

Procedure

1. Sign in to the SAP Ariba Strategic Sourcing Suite.
2. Go to the **Administration** > **Product Sourcing Manager** > **Import BOM** page.

   You can view the status of CSV file-based BOM import jobs from the table on the Import BOM page.
3. To filter the list of CSV file-based BOM import jobs, set one or more of the following filters:
   - Date range: select a **From date** and a **To date**.
   - **Status**: select one of the following status options:
     - **Created**: view BOM import jobs that are in created - initiated - state.
     - **Processing**: view the BOM import jobs that are in processing state.
     - **Successfully Staged**: view BOM import jobs that are successfully completed.
     - **Failure**: view BOM import jobs that failed to complete.
     - **Validation Failed**: view BOM import jobs that failed because of validation errors.

   If you select a date range and a status, SAP Ariba Strategic Sourcing Suite product sourcing displays all BOM import jobs from the specified date range and match the specified status.

   BOM import jobs that match the specified filter criteria are listed on the BOM import job.

Bill of Materials Import API

The Bill of Materials Import API is a REST API that is available on SAP Ariba developer portal to enable you to develop a client application for importing bill of materials data in CSV file format. CSV file-based BOM import enables you to import BOMs from external systems that are not integrated with SAP Ariba Strategic Sourcing Suite. For more information about the bill of materails import API, see Bill of Materials Import API.

Importing Pricing, AML Split, and BOM Split Information

Prerequisites

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

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

Context

You can import pricing, AML split, and BOM split information by uploading the required information in CSV format. You can also update the pricing, AML split, and BOM split information by updating the values in the CSV file that you upload.

You can also use the CSV file-based import to deactivate pricing, AML split, and BOM split information [page 89]. This is achieved by setting the **Active** field to `False`. However, note that if you update pricing, AML split, or BOM split information, the corresponding record is automatically activated.

Procedure

1. Sign in to the SAP Ariba Strategic Sourcing Suite.
2. Click **Manage** > **Administration**.

   The **Administrator** page appears.
3. Click **Product Sourcing Manager**.

   The **Product Sourcing Manager** page appears.
4. Click **Import Data**.

   The **Import Data** page appears.
5. From the **Select the data you want to load** list, select:

- **Pricing** to deactivate or update pricing or AML split information.
- **BOM Split** to deactivate or update BOM split information.

Based on the selected data type, the fields that must be in the CSV appear on the page.

6. Based on the data type you selected in the previous step, complete the following:

   - If you selected **Pricing**, create a CSV file that contains the following fields in the displayed order and enter the details as required:

     > **Note**
     >
     > Price split percentage indicates the AML split.
     >
     > You can enter any present or future date of your choice in the **Date** field. The price and AML split come into effect on the exact date you specifiy.
     >
     > A combination of plant ID, material ID, SAP vendor ID, and date is used to uniquely identify an entry. So, if you want to deactivate pricing or AML split, ensure that the values you enter in the CSV file match the entries in product sourcing.
     >
     > If you want to deactivate pricing or AML split, enter values only in the columns corresponding to the fields that you want to deactivate. Value you set in the **Active** column does not apply to columns that are left blank. For example, when you want to deactivate or activate the estimated price, enter the value only in the **Estimated Price** column and leave the **Contracted Price** and **Price Split Percentage** columns blank.

PLANT ID	MATERIAL ID	SAP Vendor ID	DATE	ESTIMATED PRICE	CONTRACTED PRICE	CURRENCY CODE	PRICE SPLIT PERCENTAGE	ACTIVE
12345	*ABC1234-01*	*34567*	*04/23/2020*	*99.87*		*USD*	*55*	true | false

   - If you selected **BOM split**, create a CSV file that contains the following fields in the displayed order:

     > **Note**
     >
     > You can enter any present or future date of your choice in the **Date** field. The BOM split comes into effect on the exact date you specifiy.
     >
     > A combination of parent material ID, material ID, plant ID, and date is used to uniquely identify an entry. So, if you want to deactivate BOM split, ensure that the values you enter in the CSV file match the entries in product sourcing.

PARENT MATERIAL ID	MATERIAL ID	PLANT ID	DATE	BOM SPLIT %	ACTIVE
X887097-001	*X887245-001*	*10*	*4/24/2020*	*70*	true | false

> **Note**
>
> The default value for the **Active** field is **`true`**.

> If you update pricing, price split percentage, or BOM split perecntage, the entry is automatically activated even if you do not update the **Active** column value.

Save the CSV file to a location from where you can access the file.

7. In the **Select the data file you want to load** section, either drag and drop the CSV file to the **Choose a file or drag it here** button or click the button to browse and select the file.

   The name and size of the selected file appears on the page and the **Import** and **Cancel** buttons are enabled.
8. Click **Upload** to import the file.

   To cancel the selection, you can click the *x* button next to the file name or click **Cancel**.

   The data import status of the uploaded file is displayed in the table in the bottom of the page.

About Deactivating Item Pricing and BOM Split Information in Bulk

Buyers using the product sourcing features of SAP Ariba Strategic Sourcing Suite can deactivate contracted price, estimated price, AML split, and BOM split information in bulk by using a CSV file.

You can use the Pricing or BOM Split Excel template available from the **Import Data** page of the **Product Sourcing Manager** dashboard and set the *Active* column value of the entry that you want to deactivate to False. When an entry is deactivated, the same is displayed as blank in the UI and Excel exports. Previously, to deactivate a record, buyers had to manually edit the information for each of the items from the UI.

Buyers can also use the pricing template from the data load options to update pricing and AML split information and to activate the pricing information that is in the deactivated state. Similarly, you can use the BOM split template to update the BOM split information and activate BOM split if it is in the deactiavted state.

Configure Optional Data to Import

Creating Maps for Plant-Specific Custom Fields [page 102]

Importing Contract Manufacturer IDs (Contract MFR IDs)

You define contract manufacturer IDs (**Contract MFR** IDs) and map them to SAP plant IDs in a CSV file.

Prerequisites

You must be a member of the following group:

- **Materials Administrator**

Context

You can define plant IDs that are specific to product sourcing and which your site uses to identify contract manufacturers. Your site can be configured to display contract manufacturers in the **Contract MFR** column of BOM and material lists. To show values for contract manufacturers, you must map each product sourcing plant ID (`PLANT_ID`) to an SAP plant ID (`PLANT_SAP_ID`). SAP Ariba recommends that you use the same value for both types of plant IDs.

When a material is displayed in the SAP Ariba product sourcing user interface, SAP Ariba uses the material's SAP plant ID to find the corresponding product sourcing plant ID and displays the name for the product sourcing plant ID (possibly in the **Contract MFR** column).

When SAP Ariba sends purchasing info record (PIR) data to SAP, SAP Ariba uses the product sourcing plant ID to find the corresponding SAP plant ID and sends the SAP plant ID in the data.

Procedure

1. In SAP Ariba Administrator, select **Product Sourcing Manager** > **Import Data**.
2. In the **Select the legacy data you want to load** field, select **Plant**.
3. Click **Export** to download a CSV file for plant ID definitions. If your site already has plant IDs defined, the CSV file contains the current definitions; otherwise, the CSV file contains header values that you can use as a template. Save the CSV file.
4. Edit the CSV file.

   Enter values for the fields as follows:

   - `PLANT_ID`: An integer used as the product sourcing plant ID. If a product sourcing plant ID already exists with the same value, the existing plant ID is overwritten. SAP Ariba recommends that you use the same value for the product sourcing plant ID (`PLANT_ID`) and the SAP plant ID (`PLANT_SAP_ID`).

- `PLANT_NAME`: A text string displayed for the plant in BOM and material lists.
- `PLANT_SEQ`: An integer used to specify the order in which plants appear in the user interface.
- `PLANT_SAP_ID`: Value of the SAP plant ID mapped to the product sourcing plant ID. SAP Ariba recommends that you use the same value for the product sourcing plant ID (`PLANT_ID`) and the SAP plant ID (`PLANT_SAP_ID`).
- `ACTIVE`: If `TRUE`, this entry is used.

5. Save your CSV file.
6. Select your CSV file and click **Import**.

Next Steps

Your request is placed in a queue to be processed by a regularly scheduled task. Check the status of your request in the **Import Requests** area below the **Import** button.

Configuring Purchasing Info Record (PIR) Integration

You can optionally configure your site to have SAP Ariba send PIR information to SAP ERP when a user accepts pricing for a BOM quote or items in a simple RFx or sourcing event. SAP ERP then uses the information to create a PIR. You can also use the optional Export Pricing Updates web service to export updates and additions made to SAP Ariba pricing information.

Procedure

1. Configure an external system for your site using the SAP Ariba Administrator > **Master Data Manager** > **External System Configuration** page as described in Configuring an External System for Master Data.
2. If your site has external systems configured, contact SAP Ariba Support to enable one of the following:
   - **`PIR_DEFAULTS.DefaultExternalSystem`**

     Set this parameter to the ID of the external system to use for Purchase Information Record (PIR) integration. The default external system is where SAP Ariba Strategic Sourcing Suite sends PIR data. This parameter is only applicable if `ENABLE_MULTI_ERP_SUPPORT` is off, and no external system is selected in the sourcing event or contracts, while creating the PIR.
   - **`ENABLE_MULTI_ERP_SUPPORT`**

     If set to `true`, multiple SAP ERP systems can be used to send inbound and outbound data in product sourcing. You can use multi-ERP systems when loading master data, in sourcing projects, and when sending PIRs. You can also search materials or BOMs by SAP ERP system.

     When the `ENABLE_MULTI_ERP_SUPPORT` parameter is enabled, the system ignores the `DEFAULT_EXTERNAL_SYSTEM` parameter and the

`PIR_DEFAULTS.DefaultExternalSystem` parameter, and pulls data from all configured SAP ERP systems.

The default setting for this parameter is `false`.

When multi-ERP is enabled, the SAP ERP system associated with the item is used when creating a PIR. When multi-ERP is enabled and no SAP ERP system is associated with the item, the external system selected in the event is used in the PIR. If an external system was not selected in the event, the configured default external system is used in the PIR.
If multi-ERP is not enabled, simple RFx and full sourcing project use the external system that sends the data from SAP Ariba Sourcing and the PIR goes back to the same external system. When multi-ERP is enabled, the system associated with the item in product sourcing is used to send the PIR back to SAP Ariba Sourcing.
Example: There are 2 items in sourcing, item A, and item B. Item A is associated with external system ERP1 and item B is associated with external system ERP2 in product sourcing. The outgoing PIR creates 2 messages, 1 for item A in ERP1 and another message for item B in ERP2. All items and pricing in ERP1 are sent back to sourcing in 1 message and all items in ERP2 are sent back in another message.

3. Configure SAP Ariba cloud integration components to export material master and BOM data from the SAP ERP as described in .
4. Configure SAP Ariba cloud integration components to fetch PIR data from SAP Ariba using the `/ARBA/CR_PIR_CREATE` program and maintaining the pricing conditions in `/ARBA/PIR_CD_MAP` table.
5. Configure or set **Part Type** values for materials. The **Part Type** value might be manually selected in the SAP Ariba user interface or included in master data sent that was exported by the SAP ERP. To export a **Part Type** value in master data, the `/ARBA/MATERIAL_ONLY_INFO` structure must be customized to include `ZZPARTTYPE` values.
6. Define part type values with `ALLOW_PIR` set to `TRUE`. See Configuring Part Type Definitions [page 93] for information about defining and uploading part type definitions.
7. Map product sourcing plant IDs (or **Contract MFR** IDs) to valid SAP plant IDs. See Importing Contract Manufacturer IDs (Contract MFR IDs) [page 90] for information about defining, mapping, and uploading product sourcing plant IDs.
8. If you send materials in PIR data that do not have a plant ID, configure the following parameter on the Ariba Administrator > **Sourcing Manager** > **Site Parameter** > page:

   `PIR_DEFAULTS.Plant`

   When SAP Ariba Strategic Sourcing Suite sends Purchase Information Record (PIR) data to an external system that is an SAP system, each material must have a valid plant SAP ID. You can set this parameter to a valid SAP plant ID to be used as the default plant ID (sent if a material does not have a plant ID).
9. (Optional) If you want to use the event currency for cost information in the PIR, set the self-service parameter **Enable the use of supplier currency in contracts and integrations of follow-on documents with external systems**(`Application.ACM.UseSupplierBidCurrencyForContractsAndIntegration.Enabled`) to **No**. By default, this parameter is set to **Yes** and the supplier currency is used for cost information in the PIR.

Configuring Part Type Definitions

Your site can be configured to include a `Part Type` field in material master data. You can then configure part type definitions, which define behavior for materials according to `Part Type` values.

Prerequisites

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

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

Context

You define settings for part types in a CSV file. A part type specifies settings that determine the product sourcing requirements and options for materials with that part type.

A material inherits all the settings defined for its part type field.

A material loaded from SAP master data is assigned to a part type (material type) using the custom ZZPARTTYPE field in the `/ARB/MATERIAL_ONLY_INFO` structure on the SAP ERP.

Procedure

1. In SAP Ariba Administrator, select **Product Sourcing Manager** > **Import Data**.
2. In the **Select the legacy data you want to load** field, select **Part Type**.
3. Click **Export** to download a CSV file for part type definitions. If your site already has part types defined, the CSV file contains the current definitions; otherwise, the CSV file contains header values that you can use as a template. Save the CSV file.
4. Edit the CSV file.

   Enter values for the fields as follows:

   - `PART TYPE ID`: A string used to identify the part type. If a part type already exists with the same value, the existing part type is overwritten.
   - `PART TYPE DESCRIPTION`: A text string used to identify the part type. This string is compared with the ZZPARTTYPE specified for a material in the SAP ERP data to determine the part type for the material.
   - `PART TYPE SEQUENCE`: An integer used to specify the order in which part types appear in the user interface.
   - `ALLOW PIR`: If `TRUE`, Purchasing Info Record (PIR) data is sent to the SAP ERP when a price is accepted for the material and the following conditions are met:
     - the SAP Ariba Cloud Integration and SAP Ariba Sourcing components are configured for integration

- the product sourcing plant for the part is mapped to an SAP plant ID
- the supplier is an approved manufacturer for the material (the supplier is linked to the material in the `Approved Manufacturer Parts List` master data)

If `FALSE`, PIR data is never sent to the SAP ERP.

- `ALLOW PIR FOR NON AML`: If `TRUE`, Purchasing Info Record (PIR) data is sent to the SAP ERP when a price is accepted for the material and if the following conditions are met:
  - the SAP Ariba Cloud Integration and SAP Ariba Sourcing components are configured for integration
  - the product sourcing plant for the part is mapped to an SAP plant ID
  - the supplier is an ad hoc manufacturer (not an approved manufacturer for the material; the supplier is **not** linked to the material in the `Approved Manufacturer Parts List` master data, such as a supplier manually invited to participate in an event for the material)

  If `FALSE`, PIR data is never sent to the SAP ERP.
- `EDITABLE`: If `TRUE`, SAP Ariba users can edit information for the material and create ad hoc materials with this type (the type can be selected from the **Part Type** menu when creating a material). If `FALSE`, SAP Ariba users cannot create materials with the part type or edit materials with this part type and the SAP ERP is the source of truth for materials with this part type.
- `CAN ASSIGN OWNER`: If `TRUE`, an owner must be assigned to the material to get quotes. If `FALSE`, an owner cannot be assigned to the material.
- `ACTIVE`: If `TRUE`, SAP Ariba users can add the material to a BOM. If `FALSE`, SAP Ariba users cannot add the material to a BOM.

  > → Tip
  >
  > You can use the `FALSE` setting for materials previously added to BOMs that are now obsolete.

5. Save your CSV file.
6. Select your CSV file and click **Import**.

Next Steps

Your request is placed in a queue to be processed by a regularly scheduled task. Check the status of your request in the **Import Requests** area below the **Import** button.

Importing Product Sourcing Program Definitions

Product sourcing programs are optional structures you can use to organize BOMs. You import program definitions from a CSV file. To assign BOMs to programs, you can use the user interface or import a CSV file with program assignments.

Prerequisites

The ability to import product sourcing program definitions is not available when the `BOM_V2_ENABLED` parameter is enabled. Instead, refer to BOM and Material Tags [page 200]. The `BOM_V2_ENABLED` parameter is enabled by

default for all sites deployed after January 2020. For more information about the BOM_V2_ENABLED parameter, see Supported Bill of Materials (BOM) Types [page 160].

You must be a member of the following group:

- **Materials Administrator**

Procedure

1. In SAP Ariba Administrator, select **Product Sourcing Manager** > **Import Data**.
2. In the **Select the legacy data you want to load** field, select **Programs**.
3. Click **Export** to download a CSV file for part type definitions. If your site already has part types defined, the CSV file contains the current definitions; otherwise, the CSV file contains header values that you can use as a template. Save the CSV file.
4. Edit the CSV file.

   Enter values for the fields as follows:
   - PROGRAM ID: A string used to identify the program. If a program already exists with the same ID, the existing program is overwritten.
   - PROGRAM DESCRIPTION: A text string used to identify the program. This string is shown to users when they are choosing the program to which a BOM is assigned.
   - PROGRAM SEQUENCE: An integer used to specify the order in which program appear in the user interface.
   - ACTIVE: If TRUE, BOMs can be assigned to this program.
     If FALSE, BOMs cannot be assigned to this program. Use this setting to deactivate an existing program.
5. Save your CSV file.
6. Select your CSV file and click **Import**.

Next Steps

Assign BOMs to programs by importing a CSV file [page 95] or from the interactive user interface [page 174].

Importing Program Assignments

Prerequisites

The ability to import program assignments is not available when the BOM_V2_ENABLED parameter is enabled. Instead, refer to BOM and Material Tags [page 200]. The BOM_V2_ENABLED parameter is enabled by default for all sites deployed after January 2020. For more information about the BOM_V2_ENABLED parameter, see Supported Bill of Materials (BOM) Types [page 160].

You must be a member of the following group:

- **Materials Administrator**

You must have product sourcing programs defined [page 94] for your site.

Procedure

1. In SAP Ariba Administrator, select **Product Sourcing Manager** > **Import Data**.
2. In the **Select the legacy data you want to load** field, select **Program Pinning**.
3. Create the CSV file with the following fields:
   - `MATERIAL ID`: The ID of the BOM you want to assign to a program.
   - `PROGRAM ID`: The ID of the program to which the BOM will be assigned. This must match a `Program ID` of a program defined for your site.
4. Save your CSV file.
5. Select your CSV file and click **Import**.

Item Volume Import API

The Item Volume Import API enables product sourcing administrators to import material volume data into product sourcing.

The Item Volume Import API is a REST API available on the SAP Ariba developer portal. You can use either the user interface or the Item Volume Import API to import material volume data. You can transfer the imported material volume data, along with historic prices, quantity, supplier specific prices, and terms, to sourcing events. Volume data enables you to collect material pricing by volume scale, time periods, and plant.

For more information about using the user interface to import material volume data, refer to Importing Material Volume Data [page 96].

Importing Material Volume Data

You can import material volume data into product sourcing. Material volume scales give you the ability to collect pricing at different volume tiers.

Prerequisites

You must be a member of the following group:

- **Materials Administrator**

Context

You can use the **Item Volume CSV Upload** page to import material volume data into product sourcing and view the status of your imported material volume files.

Procedure

1. In Ariba Administrator page, select **Product Sourcing Manager** > **Import Item Volume**.
2. Use the drop-down menu to select the ERP system from which you want to import volume data.
3. Click **Browse** to find the file with the volume data you want to import.
4. Click **Import**.
5. Optionally, click the **Click here for sample CSV** link to download a sample volume data file. You can use the sample CSV file for reference and to create your own material volume data file.

Modifying Product Sourcing Field Labels

Your organization might use terminology that differs from names and terms that SAP Ariba Strategic Sourcing Suite displays for product sourcing field labels in the user interface. You can use the **Field Label Manager** to configure SAP Ariba Strategic Sourcing Suite to display field names that match the names used in your organization.

Prerequisites

You must be a member of the following group:

- **Materials Administrator**

Context

> ⚠ Limitations
>
> - Do not use trademarked brand names in SAP Ariba Strategic Sourcing Suite field labels. Instead, use generic terms. For example, you can use the term generic term "facial tissue" in a field label instead of a trademarked brand name for facial tissues.

Procedure

1. In Ariba Administrator page, select **Product Sourcing Manager** > **Field Label Manager**.
2. Use the drop-down menu to select the locale for which you want to configure field labels.

   The locale is specified as *languageCode* or *languageCode_countryCode*

   Where:

   languageCode is the two-character ISO-639 language code, such as `en` for English.

   countryCode is the ISO-3166 country code, such as `CN` for China (`zh_CN`).
3. Click **Export** to download a CSV file with the default mappings between data field names and the displayed field names.
4. Edit the `Locale Specific Name` column in the CSV file.

   The CSV file contains the following columns:

   - `Class Name`: The class, or category, for the field. **Do not change values in this column.**
   - `ID`: The field ID within the class (the `Class Name` and `ID` fields together form a unique ID). **Do not change values in this column.**
   - `English Name`: The label shown for this field in English by default. This column is provided only to help you identify the field. **Do not change values in this column.**
   - `Local Specific Name`: Label to be displayed for the field in the locale. Use UTC-16 encoding for non-English entries. **You must have an entry in this column.**
   - `Description`: This column is provided only to help you identify the field.
5. Use the drag-and-drop box to select your edited CSV file and click **Import**.

Creating Maps for Standard Product Sourcing Fields

You can map item material master data received from ERP systems to standard (existing) product sourcing fields for items in BOM and material lists. You can also map Approved Manufacturer List (AML) data from SAP ERP to product sourcing fields for items.

Prerequisites

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

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

Context

You can see a list of the standard fields mapped in the XML, PDX, CSV, or material master file. The standard fields are a list of fields that SAP Ariba looks for in a file. You can use this list to map your data, if you want it mapped differently.

When mapping data fields received from ERP systems to standard product sourcing item fields, you can map an ERP data field to more than one product sourcing item field. You can also change the case (convert to all upper case or all lower case) of ERP data before displaying it in a product sourcing item field.

Procedure

1. Go to **Standard Field Mapping** located in the **Product Sourcing Manager** area on the **Administration** tab.
2. Choose the values for the search filters to find the data field you want to edit as follows:
   - **Source Type**: Choose the source of the data for the field you want to map.
     - **MATERIAL_MASTER**
     - **XML**
     - **PDX**
     - **CSV**

     > ⓘ Note
     >
     > The options in the following lists depend on the Source Type you selected.
   - **Source Class**: Specify the type (class) of data you want to map.
     - **ITEM_MASTER**: Item master data is information about items. This includes item names, descriptions, and part or material numbers. This does not include approved manufacturers.
     - **AML**: Data for items with approved manufacturers, such as ID of the manufacturer and the part number or ID used by the manufacturer. This data usually comes from an Approved Manufacturers List (AML) or Approved Manufacturers Parts List (AMPL).
   - **Standard Class**: Choose the SAP Ariba field type.
     - **ITEM**: Valid only if **Source Class** is **ITEM_MASTER**. Includes item ID, item name, part type, and item number.
     - **ITEM_DETAIL**: Valid only if **Source Class** is **ITEM_MASTER**. Includes item information not included in **ITEM**, such as item description, unit of measure, and category.
     - **ITEM_MANUFACTURER**: Valid only if **Source Class** is **AML**. Includes vendor ID and supplier part ID (manufacturer's part number).
   - **Standard Field**: Leave this blank to search for all SAP Ariba fields that match the **Source Type**, **Source Class**, and **Standard Type** filters. Alternatively, you can choose a field from the dropdown menu.
3. Click **Search**.

   A list of the standard field mapping information appears.
4. Select a row and click **Edit** below the search results.
5. Change the values in the editable cells.

   You can change the following cell values:

- **Source Field Id**
- **Default Value**: Value used for the SAP Ariba field if no value is present in the source data.
- **Conversion Function**: Conversion applied to the source data before being stored in the SAP Ariba field. Valid values:
  - **UPPER_CASE**: Converts all text to upper case.
  - **LOWER_CASE**: Converts all text to lower case.

6. Click **Update** to save your changes.

Creating Maps for Custom Product Sourcing Fields

You can map item material master data received from ERP systems to custom (new) product sourcing fields for items in BOM and material lists. You can also show the custom field in the **Custom fields** column of a material data table.

Prerequisites

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

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

Context

You can add, edit, or see a list of the custom fields mapped in the XML, PDX, CSV, or material master file.

The CSV custom field mappings allow you to map item material fields for CSV file-based BOM integration.

The PDX custom field mappings allow you to map item material and AML data fields for `PartTypeId`, `SAPVendorId`, and `Vendor Legal Name`.

If the `SAPVendorId` is not in the PDX web service request, the `Vendor Legal Name` is used to create the item or AML mapping.

In product sourcing, if there are multiple vendors with the same legal name, the first one in the list is used for the mapping.

> **Note**
>
> You can only search for custom fields on the **Custom Field Mapping** page.
>
> Custom fields for purchasing information records (PIR),and sourcing projects should have a source class with the source type **MATERIAL_MASTER**. Other source types are not supported.

Procedure

1. Go to **Custom Field Mapping** located in the **Product Sourcing Manager** area on the **Administration** tab.
2. Click **Add**.
3. Make your choices from the dropdowns in the **Add Record to Table** popup.
   - **Source Type**: Choose **MATERIAL_MASTER**, **XML**, **PDX** , or **CSV** .

     > **Note**
     >
     > The options in the following lists depend on the source type you selected.

   - **Source Class**: Choose **ITEM_MASTER** or **AML**.
   - **Type**: Choose the data type for the custom field you are creating:
     - **String**
     - **Numeric**
     - **Boolean** (the material master string must be `true` or `false`, not case sensitive)

     You can create a maximum of 10 custom fields of each data type.
   - **Display In UI**: Choose **true** to show the field and value in the user interface. The field is shown using the **Custom fields** column in a materials table.
   - **Include in Export**: Choose **true** to include the custom field when a material list is exported to Excel.
   - **Include in Quote**: Choose **true** to have the custom field included in sourcing events.
     The **Field ID** should match the **External Field Mapping** value of the term in SAP Ariba strategic sourcing solutions .
   - **Searchable**: Choose **false** (the custom field is currently not included when searching for materials).
   - **Source Field**: ID of the data field imported as item master data.
     The ID must match an ID specified in an `ariba.masterdata.ItemMaster_Load` file loaded in your system. To view the contents of the `ariba.masterdata.ItemMaster_Load` files in your system:
     1. From SAP Ariba, select **Master Data Manager** > **Manage Data Load Requests** .
     2. In the **External System** field, choose the external system used for SAP Ariba Strategic Sourcing Suite.
     3. In the **Status** field, choose **Indexing Success**.
     4. Click **Search**.
     5. In the search results, locate an entry with a **Primary Doc ID** that begins with **ariba.masterdata.ItemMaster** and click **View**.
     6. Open the ZIP file and extract the contents of the `ariba.masterdata.ItemMaster_Load` file. The `ariba.masterdata.ItemMaster_Load` file is a CSV file; field names are shown is the first line.
   - **Field ID**: A string to uniquely identify the custom field, such as `cus_mmMyField`.
   - **Field Name**: The name to display for the custom field.
4. Click **Submit**.

Results

You can see a list of the custom mappings by clicking **Search** on the **Custom Field Mapping** page.

If you selected **true** for the **Display In UI** option, a user viewing a materials table can see the field and value by clicking the table menu in a material data table, showing the column **Custom fields**, then clicking **View** in the **Custom fields** column.

Workflow for Plant-Specific Custom Fields

Importing plant-specific custom fields to product sourcing involves the following high-level steps:

1. A material administrator or customer administrator imports material master data or BOM data with custom fields (such as plant and supplier information) from the external system.
2. Map the custom fields specific to a plant in the ERP to custom fields in product sourcing in the **Administration** > **Custom field mapping** page.
3. A request to synchronize the custom fields is placed in a queue to be processed by a regularly scheduled task.
4. The plant-specific custom fields can be viewed in the material tables in the product sourcing dashboard.
5. You can do a material quote to get pricing information for these materials.

Additional Information

For more information on how to monitor and manage BOM uploads, see the following topics:

- Import, Configure, and Monitor Data for Product Sourcing [page 55]
- Creating Maps for Custom Product Sourcing Fields [page 100]

Creating Maps for Plant-Specific Custom Fields

You can map custom fields that are specific to a plant in the SAP ERP to new product sourcing fields for items in BOM and material lists. You can also show the custom field in the **Custom fields** column of a material data table.

Prerequisites

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

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

Context

The custom field mappings allow you to map plant-specific custom fields.

Procedure

1. Go to **Custom Field Mapping** located in the **Product Sourcing Manager** area on the **Administration** tab.
2. Click **Add**.
3. Make your choices from the dropdowns in the **Add Record to Table** popup.
    - **Source Type**: Choose **MATERIAL_MASTER**.
    - **Source Class**: Choose **ITEM_MASTER_PLANT**.
    - **Type**: Choose the data type for the custom field you are creating:
        - **String**
        - **Numeric**
        - **Boolean** (the material master string must be `true` or `false`, not case sensitive)

      You can create a maximum of 10 custom fields of each data type.
    - **Display In UI**: Choose **true** to show the field and value in the user interface. The field is shown using the **Custom fields** column in a materials table.
    - **Include in Export**: Choose **true** to include the custom field when a material list is exported to Excel.
    - **Include in Quote**: Choose **true** to have the custom field included in simple RFx and sourcing events.
    - **Searchable**: Choose **false** (the custom field is currently not included when searching for materials).
    - **Source Field**: ID of the data field imported as item master data.
      The ID must match an ID specified in an `ariba.masterdata.ItemMasterPlantCombo_Load` file loaded in your system. To view the contents of the `ariba.masterdata.ItemMasterPlantCombo_Load` files in your system:
        1. From SAP Ariba, select **Master Data Manager** > **Manage Data Load Requests**.
        2. In the **External System** field, choose the external system used for SAP Ariba Strategic Sourcing Suite.
        3. In the **Status** field, choose **Indexing Success**.
        4. Click **Search**.
        5. In the search results, locate an entry with a **Primary Doc ID** that begins with **ariba.masterdata.ItemMasterPlantCombo** and click **View**.
        6. Open the ZIP file and extract the contents of the `ariba.masterdata.ItemMasterPlantCombo_Load` file. The `ariba.masterdata.ItemMasterPlantCombo_Load` file is a CSV file; field names are shown is the first line.
    - **Field ID**: A string to uniquely identify the custom field, such as `cus_mmMyField`. The **Field ID** should match the **External Field Mapping** value of the term in SAP Ariba strategic sourcing solutions.
    - **Field Name**: The name to display for the custom field.
4. Click **Submit**.

Results

You can select the appropriate **Source Type** and **Source Class** and click **Search** to view a list of the plant-specific custom mappings on the **Custom Field Mapping** page.

If you selected **true** for the **Display In UI** option, the plant-specific custom fields are available in the material data table. To view the plant-specific custom fields in a materials table, click **View** in the **Custom fields** column. A popup

is displayed with the field and value. You can click ⚙ and select **Custom fields** from the list to view the **Custom fields** column in the material data table.

> **Note**
>
> The plant specific custom fields should be added in the `ariba.masterdata.ItemMasterPlant_Load` and `ariba.masterdata.ItemMasterPlantCombo_Load` `ObjectType`in the `schema.csv` file.

Monitor and Manage Data Transfers

Monitoring and Managing Master Data Transfers

Prerequisites

To view the status of master data imports, you must be a member of one of the following groups:

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

Context

To monitor master data imports, you view master data load requests. After SAP Ariba receives master data, data load requests are created to load the data into the SAP Ariba infrastructure and index it for searching. You can view the status of master data load requests to see when SAP Ariba has received master data and verify that it was successfully loaded.

Procedure

1. To view incoming material master data loads, sign in to the SAP Ariba Administrator and select **Master Data Manager** > **Manage Data Load Requests**.
2. Click **List All** to see log entries for all master data load requests.

   See Verifying and Managing Individual Material Master Data Loads (Manage Data Load Requests) for information about how to use the log entries to verify master data loads.

Monitoring and Managing PIR Data Transfers

Prerequisites

To view purchase information record (PIR) data transfers, you must be a member of one of the following groups:

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

Context

To monitor PIR data transfers, you view outbound PIR messages (PIR data sent to SAP ERP) and inbound PIR messages (SAP ERP responses to the PIR data).

Procedure

1. To view PIR data transfers, sign in to the SAP Ariba Administrator and select **Product Sourcing Manager** > **Message Queue**.
2. Check for failed outbound PIR data transfers (pricing data sent to SAP ERP) by selecting the following options:

   - **Message queue type: OUTBOUND**
   - **Type: PIR**
   - **Status: FAILED**

   If the results show a failed outbound message, make a note of the message ID. Select the message and click **Retry**. The message status should change to **CREATED**, then **PROCESSING**, and then either **SUCCESS** or **FAILED**. If the status changes to **FAILED** again, check the configuration items listed in Configuring Purchasing Info Record (PIR) Integration [page 91].
3. Check for errors received in responses from SAP ERP by selecting the following options:

   - **Message queue type: INBOUND**

- **Type: PIR**
- **Status: FAILED**

If the results show a failed inbound message, notify the SAP ERP administrator.

Custom Fields in Outbound PIR Messages

Outbound PIR messages (PIR data sent to SAP ERP) can include custom fields from sourcing projects.

The `PIRFetchResponse` message includes `CustomFields`.

The outbound PIR message sends all custom fields, custom field IDs, and custom field values from product sourcing to SAP ERP if they are mapped to be included in the quote, and they are on the event template. For information on mapping custom fields, see Creating Maps for Custom Product Sourcing Fields [page 100]. For information on custom fields in event templates, see Creating an Event Template with Custom Product Sourcing Fields [page 258].

Each `CustomFields` element contains the following child elements:

`CustomFieldId`	ID of the custom field.
`CustomFieldValue`	The value of the field from product sourcing.

CustomFields in XML

```
<xs:complexType name="CustomFields">
    <xs:sequence>
        <xs:element name="CustomFieldId" type="xs:string"/>
        <xs:element name="CustomFieldValue" type="xs:string"/>
    </xs:sequence>
</xs:complexType>
```

Example

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
    <SOAP-ENV:Header/>
    <SOAP-ENV:Body>
        <ns2:PIRFetchResponse xmlns:ns2="http://ariba.com/s4/dms/schema/pir">
            <ns2:ERPId>SAPERP1</ns2:ERPId>
            <ns2:RealmId>s4All-18</ns2:RealmId>
            <ns2:PIRInfo>
                <ns2:LineItemData>
                    <ns2:AwardNumber>AANwAJcQwQE3n</ns2:AwardNumber>
                    <ns2:ItemNumber>LINE1533676609122</ns2:ItemNumber>
                    <ns2:MaterialNumber>AC10000-222</ns2:MaterialNumber>
                    <ns2:VendorNumber>2000002</ns2:VendorNumber>
                    <ns2:MaterialGroup>FPP_PROGR</ns2:MaterialGroup>
                    <ns2:CreationDate>20190128</ns2:CreationDate>
```

```
                    <ns2:UnitOfMeasure>EA</ns2:UnitOfMeasure>
                    <ns2:CustomFields>
                        <ns2:CustomFieldId>ABC</ns2:CustomFieldId>
                        <ns2:CustomFieldValue>15</ns2:CustomFieldValue>
                    </ns2:CustomFields>
                </ns2:LineItemData>
        .
        .
        .
         </ns2:PIRInfo>
       </ns2:PIRFetchResponse>
   </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Monitoring and Managing BOM Uploads

Prerequisites

To monitor and process BOM data transfers, you must be a member of one of the following groups:

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

Learn about Product Sourcing Personas and User Groups [page 14].

Context

When using the BOM upload service, you can:

- See the status of the BOM upload by various status types
- Download the original content sent from the SAP ERP system
- See the detailed BOM upload information and what to correct, if there are errors during the upload

Procedure

1. Send BOM data from an external system to SAP Ariba using a method described in Import, Configure, and Monitor Data for Product Sourcing [page 55].
2. Go to the **Message Queue** located in the **Product Sourcing Manager** area on the **Administration** tab.
3. Choose the following options in the **Message Queue**:
    - **Message queue type: INBOUND**
    - **Type: BOM_UPLOAD_SERVICE**
    - Choose a **Status:** from the dropdown.
4. Click **Search**.

    The BOM upload service runs every 5 minutes and takes all items in **CREATED** status and processes them.

A list of results based on the status type is displayed.

See Status of BOM Upload Service Processing [page 109] for details on the status types.

5. Click the status in the search results to see the start date and end date each status for that upload was reached.
6. Click **Content** under the **Content type** column to download the PDX file posted from the SAP ERP system.

   If a failure status type is given, the status link shows the detailed information to be corrected. Correct the error in the source system (SAP ERP, SOAP web service, or PDX web service), and resend the data.

Monitoring and Managing PDX Uploads

Prerequisites

To monitor and manage data transfers using Product Data eXchange (PDX), you must be a member of one of the following groups:

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

Suppliers in the PDX data transfer must exist in your sourcing solution.

Context

When using the PDX upload service, you can:

- See the status of the PDX upload by various status types
- Download the original content sent from the SAP ERP system
- See the detailed PDX upload information and what to correct, if there are errors during the upload

Procedure

1. Send data from an external system to SAP Ariba using a method described in Import, Configure, and Monitor Data for Product Sourcing [page 55].
2. Go to the **Message Queue** located in the **Product Sourcing Manager** area on the **Administration** tab.
3. Choose the following options in the **Message Queue**:
   a. **Message queue type: Inbound**.
   b. **Type: PDX_UPLOAD_SERVICE**
   c. Choose a **Status:** from the dropdown.

   See Status of BOM Upload Service Processing [page 109] for details on the status types.
4. Click **Search**.

   The upload service runs every 5 minutes and takes all items in **CREATED** status and processes them.

A list of results based on the status type is displayed.

5. Click the status in the search results to see the start date and end date for each status that was reached in the upload.
6. Click **Content** under the **Content type** column to download the PDX file posted from the SAP ERP system.

   If a failure status type is given, the status link shows the detailed information to be corrected. Correct the error in the source system (SAP ERP, SOAP web service, or PDX web service), and resend the data.

Status of BOM Upload Service Processing

The BOM upload process goes through several stages from upload to success. The **Message Queue** located in the **Product Sourcing Manager** area on the **Administration** tab shows the current status of the process.

BOM upload status descriptions:

- **CREATED** is when the original payload is saved in the system
- **PRE_PROCESSING** is when the system is extracting, and validating the XML content
- **INVALID** is when either a specific BOM in a payload fails validation, or all of the BOMs in a payload fail validation
- **STAGED** is when all of the BOM payload validated
- **PARTIAL_STAGED** is when some of the BOMs in the payload validated and staged, while some failed validation
- **PROCESSING** is when the system is processing the data into tables
- **SUCCESS** is when all the BOMs in the payload are successfully processed
- **PARTIAL_SUCCESS** is when some of the BOMs in the payload validated and processed successfully, and some failed validation
- **FAILURE** is when a runtime exception occurs

Export Web Services for Product Sourcing

Export Pricing Updates Web Service

Use the export pricing updates web service to retrieve changes and additions to the pricing database used for product sourcing.

The export pricing updates RESTful web service enables clients to retrieve all changes and additions to the product sourcing pricing database within a specified time range. Data from time frames more than 24 hours is downloaded and stored in the SAP Ariba file server. To get a copy of the response, have your designated support contact file a service request.

The export pricing updates web service downloads active and inactive data.

The date and time format are ISO 8601 compliant. Three letter time zones such as PST, MST, CST, EST, and so on, are supported and must be set. If the time zone is not set, the validation check will fail with an invalid `todate` message. The complete format is: `YYYY-MM-DDThh:mm:ss zzz`.

The web service results can be downloaded in JavaScript Object Notation (JSON) or XML. The default format is JSON. To download content in JSON format, the request can optionally include the following header: `Content-Type:application/json`. To download content in XML format, include the following header in your request: `Content-Type:application/xml`.

The export pricing updates web service exports changes and additions for the following data:

- RFx information (`RFXList` [page 117]).
- RFx items (`RFXItemList` [page 118]).
- RFx item suppliers (`RFXItemSupplierList` [page 120]).
- RFx standard terms (`RFXStandardTermList` [page 121]).
- RFx custom terms (`RFXCustomTermList` [page 123]).

> **Note**
>
> Only data from completed simple RFx events with accepted pricing is exported.

- Items (ItemList [page 125]). All items that have been added or that have changed attributes other than pricing, such as the type, owner, category, description, or project.
- Item pricing (ItemPriceList [page 127]). If one price changes or is added for an item (such as for a new time period or plant), all pricing information for the item is exported.

> **Note**
>
> If one price changes or is added for an item (such as for a new time period or plant), all pricing information for the item is exported.

- Item supplier splits (ItemAMLSplitList [page 129]). Split information for each item by supplier and the suppliers' percentage.
- BOM items (`BomList` [page 131]).

> **Note**
>
> If a new BOM was created in the requested time range, an entry is exported for each item in the BOM.

- Item attributes (ItemAttributeList [page 133]).
- BOM split information (`BomSplitList` [page 134]). Split information (item quantities divided and allocated to multiple suppliers) for BOM items in the `BOMList`.
- Items added to plants (ItemPlantList [page 135]).
- Items added to programs (ItemProgramList [page 137]).
- Plants (`PlantList` [page 138]).
- Programs (ProgramList [page 139]).
- Estimated lead time for an item from a supplier (`ItemLeadTimeList` [page 140]).
- Item suppliers (ItemAMLList [page 141]).
- Custom fields (CustomFieldsList [page 142]).
- Summary of extracted statistics from the download (Summary [page 143]).

Configuring Authentication for the Export Pricing Updates Web Service

The export pricing updates web service requires client authentication.

Prerequisites

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

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

Context

The export pricing updates web service clients must send HTTP Basic Authentication credentials to the SAP Ariba server. The web service is also secured by the server-side authentication and encryption provided by HTTPS. You configure the value for the Basic Authentication password on SAP Ariba **Integration Toolkit Security** page.

Procedure

1. In SAP Ariba Administrator, select **Integration Manager** > **Integration Toolkit Security**.
2. In the **Select the Authentication Method** field, select **Shared Secret**.
3. Enter the value for the password in the **Integration Password** and **Confirm Integration Password** fields.
4. Click **Save**.

Next Steps

Provide the password to the client. The client must send the site name and this password as Basic Authentication credentials in an HTTP Authorization header.

Export Pricing Updates Request

HTTP Method

GET

Authentication

The client must use HTTP Basic Authentication and send the following credentials in an HTTP Authorization header, base64 encoded:

```
Basic <base64 encoded myAribaSiteName:password>
```

Where:

- *myAribaSiteName* is your SAP Ariba site name for the SAP Ariba Sourcing solution. If you do not know your site name, you can get it from your SAP representative.
- *password* matches the password value configured on the SAP Ariba **Integration Toolkit Security** page.

URL

To request all changes and additions to pricing data within a specific data type in a specified time period:

```
https://mySAPAribaSourcingDomain/dms/extract/v2/objectType?
realm=mySAPAribaSiteName&fromdate=startDate&todate=endDate
```

Export pricing updates web service query parameters:

- *myAribaSourcingDomain* is the domain you see in your browser's address window when you are signed in to SAP Ariba Strategic Sourcing Suite, such as `myCompany.sourcing.ariba.com`.
- The *realm* where the data is exported from is mandatory.
- *myAribaSiteName* is your SAP Ariba site name for the SAP Ariba Strategic Sourcing Suite solution. If you do not know your site name, you can get it from your SAP Ariba representative.
- The *fromdate* is the lower boundary of the exported objects and is optional. The *timeCreated* and *timeUpdated* timestamp of the object is used for *fromdate* validation. Objects with *timeCreated* or *timeUpdated* greater than or equal to *fromdate* are exported. If *fromdate* is omitted, only the *todate* is validated.

  > **Note**
  >
  > The *fromdate* cannot be a future date.

- The *todate* is the upper boundary of the exported objects and is mandatory. The *timeCreated* and *timeUpdated* timestamp of the object is used for *todate* validation. Objects with *timeCreated* or *timeUpdated* less than *todate* are exported.

  > **Note**
  >
  > The *todate* cannot be a future date.

- The *objectType* values include:
  - `All`
  - `RFX`
  - `RFXItem`
  - `RFXItemSupplier`
  - `RFXStandardTerm`
  - `RFXCustomTerm`
  - `Item`
  - `ItemPrice`
  - `ItemAMLSplit`
  - `Bom`
  - `ItemAttribute`
  - `BomSplit`
  - `ItemPlant`
  - `ItemProgram`
  - `Plant`
  - `Program`
  - `ItemLeadTime`
  - `ItemAML`
  - `CustomFieldsList`
  - `Summary`

    > **Note**
    >
    > The *objectType* values are not case sensitive in the URL.

Export Pricing Updates Response

An export pricing updates response contains a sequence of the following child elements within an `ItemInfo` element. If the URL for the export web pricing updates request did not include an `object` parameter, the `SystemDate` and all list elements (`RFXList`, `ItemList`, etc.) are included. If an `object` parameter was included, only the `SystemDate` and specified list element is included.

The `Error` element is present only if an error occurs.

Error

An `ItemInfo` element contains an `Error` element if an error occurs when processing the export pricing updates request.

The `Error` element can contain one of the following strings:

Error	Action
Illegal format in one of the dates for the date range	Correct the format of the date range in the URL. See Export Pricing Updates Request [page 112] for format information.
Illegal amount of maximum hours for date range. Please contact the system administrator.	Correct the date range in the URL so it is 24 hours or fewer.

Error	Action
Date range is beyond the 24 hours allowed	Correct the date range in the URL so it is 24 hours or fewer.
End date must be greater than the start date	Change the start or end date in the URL so the end date is later than the start date.
General error with service call: *systemMessage*. Please contact the system administrator.	Contact your SAP Ariba support representative.
The realm specified does not exist.	Correct the site name in the URL. If you do not know your site name, contact your SAP Ariba support representative.
Error while validating session: *systemMessage*	Verify that you are sending the site name and Integration Toolkit password in an HTTP authorization header as described in Export Pricing Updates Request [page 112].
Error while getting items that changed: *systemMessage*	An error occurred while collecting the data for the response. If the *systemMessage* indicates that there are insufficient resources to return the data, decrease the time range in the URL and try again. If the error persists, contact your SAP Ariba support representative.
Error while getting item pricing that changed: *systemMessage*	An error occurred while collecting the data for the response. If the *systemMessage* indicates that there are insufficient resources to return the data, decrease the time range in the URL and try again. If the error persists, contact your SAP Ariba support representative.
Error while getting RFX changes: *systemMessage*	An error occurred while collecting the data for the response. If the *systemMessage* indicates that there are insufficient resources to return the data, decrease the time range in the URL and try again. If the error persists, contact your SAP Ariba support representative.
Error while getting item info for items that changed: *systemMessage*	An error occurred while collecting the data for the response. If the *systemMessage* indicates that there are insufficient resources to return the data, decrease the time range in the URL and try again. If the error persists, contact your SAP Ariba support representative.

Error	Action
Error while getting item info for item pricing changes: *systemMessage*	An error occurred while collecting the data for the response. If the *systemMessage* indicates that there are insufficient resources to return the data, decrease the time range in the URL and try again. If the error persists, contact your SAP Ariba support representative.
Error while getting item info for rfx item changes: *systemMessage*	An error occurred while collecting the data for the response. If the *systemMessage* indicates that there are insufficient resources to return the data, decrease the time range in the URL and try again. If the error persists, contact your SAP Ariba support representative.
Error while getting BOM info changes: *systemMessage*	An error occurred while collecting the data for the response. If the *systemMessage* indicates that there are insufficient resources to return the data, decrease the time range in the URL and try again. If the error persists, contact your SAP Ariba support representative.
Error while getting BOM attribute changes: *systemMessage*	An error occurred while collecting the data for the response. If the *systemMessage* indicates that there are insufficient resources to return the data, decrease the time range in the URL and try again. If the error persists, contact your SAP Ariba support representative.
Error while getting BOM split changes: *systemMessage*	An error occurred while collecting the data for the response. If the *systemMessage* indicates that there are insufficient resources to return the data, decrease the time range in the URL and try again. If the error persists, contact your SAP Ariba support representative.
Error while getting plant info changes: *systemMessage*	An error occurred while collecting the data for the response. If the *systemMessage* indicates that there are insufficient resources to return the data, decrease the time range in the URL and try again. If the error persists, contact your SAP Ariba support representative.

Error	Action
Error while getting program info changes: *systemMessage*	An error occurred while collecting the data for the response. If the *systemMessage* indicates that there are insufficient resources to return the data, decrease the time range in the URL and try again. If the error persists, contact your SAP Ariba support representative.

SystemDate

The system time when the request was received in XSD Date Time format (using Coordinated Universal Time, UTC).

Example

```
<SystemDate>2016-09-13T00:00:02</SystemDate>
```

RFXList

An `ItemInfo` element contains an `RFXList` element if the URL for the export web pricing updates request included an `objectType=RFXList` parameter or the `objectType` parameter was omitted. The `RFXList` element contains a list of information about the RFx.

The `RFXList` element contains 0 or more `RFX` elements. Only data from completed RFx events with accepted pricing is exported. (Only RFx data in the pricing database is exported; RFx data is added to the pricing database only after an event completes and a user has accepted pricing.)

The `RFXList` element contains an `RFX` element for each RFx that has been changed or added to within the time range specified in the URL for the export pricing updates web service.

Each `RFX` element contains the following child elements:

`RfxId`	Identifies the RFx.
`ValidFromDate`	Start date of the time range for this RFx in the format *YYYY* - *MM* - *DD*.
`ValidToDate`	End date of the time range for this item's terms in the format *YYYY* - *MM* - *DD*.

`Active`	An `Active` attribute shows the element's object is active.
`LastModified`	A `LastModified` attribute shows the date and time the element's object was last modified.

Unique Identifier

The values of the following elements together identify a unique data set:

- `RfxId`
- `ValidFromDate`

Example

```
<RFXList>
        <RFX>
            <RfxId>Doc844940</RfxId>
            <ValidFromDate>2018-05-01</ValidFromDate>
            <ValidToDate>2018-08-31</ValidToDate>
            <LastModified>2018-05-11T09:38:57Z</LastModified>
            <Active>true</Active>
        </RFX>
        <RFX>
            <RfxId>Doc845287</RfxId>
            <ValidFromDate>2018-05-11</ValidFromDate>
            <ValidToDate>2019-06-30</ValidToDate>
            <LastModified>2018-05-11T09:57:27Z</LastModified>
            <Active>true</Active>
        </RFX>
        <RFX>
            <RfxId>Doc845333</RfxId>
            <ValidFromDate>2018-05-01</ValidFromDate>
            <ValidToDate>2018-07-31</ValidToDate>
            <LastModified>2018-05-11T10:28:37Z</LastModified>
            <Active>true</Active>
        </RFX>
    .
    .
</RFXList>
```

RFXItemList

An `ItemInfo` element contains an `RFXItemList` element if the URL for the export web pricing updates request included an `objectType=RFXItemList` parameter or the `objectType` parameter was omitted. The `RFXItemList` element contains a list of changed or added RFx event items.

The `RFXItemList` element contains 0 or more `RFXItem` elements. Only data from completed RFx events with accepted pricing is exported. (Only RFx data in the pricing database is exported; RFx data is added to the pricing database only after an event completes and a user has accepted pricing.)

The `RFXItemList` element contains an `RFXItem` element for each RFx item with terms (standard or custom terms) that been have been changed or added within the time range specified in the URL for the export pricing updates web service. All terms for the item are exported, regardless of the number of changed or added terms.

Each `RFXItem` element contains the following child elements:

`ItemId`	Identifies the item.
`RfxId`	Identifies the RFx.
`ValidFromDate`	Start date of the time range for this item's terms in the format *`YYYY`* - *`MM`* - *`DD`*.
`ValidToDate`	End date of the time range for this item's terms in the format *`YYYY`* - *`MM`* - *`DD`*.
`Active`	An `Active` attribute shows the element's object is active.
`LastModified`	A `LastModified` attribute shows the date and time the element's object was last modified.

Unique Identifier

The values of the following elements together identify a unique data set:

- `ItemId`
- `RfxId`
- `ValidFromDate`

Example

```
<RFXItemList>
        <RFXItem>
            <ItemId>XZ10000-005</ItemId>
            <RfxId>Doc844940</RfxId>
            <ValidFromDate>2018-05-01</ValidFromDate>
            <ValidToDate>2018-08-31</ValidToDate>
            <LastModified>2018-05-11T11:04:53Z</LastModified>
            <Active>true</Active>
        </RFXItem>
        <RFXItem>
            <ItemId>XZ20000-001</ItemId>
            <RfxId>Doc845287</RfxId>
            <ValidFromDate>2018-05-11</ValidFromDate>
            <ValidToDate>2019-06-30</ValidToDate>
            <LastModified>2018-05-11T09:57:27Z</LastModified>
            <Active>true</Active>
        </RFXItem>
        <RFXItem>
            <ItemId>XZ60000-028</ItemId>
            <RfxId>Doc845333</RfxId>
            <ValidFromDate>2018-05-01</ValidFromDate>
```

```
            <ValidToDate>2018-07-31</ValidToDate>
            <LastModified>2018-05-11T10:28:37Z</LastModified>
            <Active>true</Active>
        </RFXItem>
    .
    .
</RFXItemList>
```

RFXItemSupplierList

An `ItemInfo` element contains an `RFXItemSupplierList` element if the URL for the export web pricing updates request included an `objectType=RFXItemSupplierList` parameter or the `objectType` parameter was omitted. The `RFXItemSupplierList` element contains a list of changed or added RFx event items.

The `RFXItemSupplierList` element contains 0 or more `RFXItemSupplier` elements. Each `RFXItemSupplier` element contains information about a supplier for an item that was updated or added within the time range specified in the URL for the export pricing updates web service.

Each `RFXItemSupplier` element contains the following child elements:

`ItemId`	Identifies the item.
`RfxId`	Identifies the RFx.
`SupplierId`	SAP supplier ID of the supplier providing the item.
`SupplierName`	Name of the supplier providing the item.
`PlantId`	ID for the plant producing the part.
`PlantName`	SAP name for the plant producing the part.
`SAPPlantId`	SAP ID for the plant producing the part.
`ValidFromDate`	Start date of the time range for this item's terms in the format *`YYYY`* - *`MM`* - *`DD`*.
`ValidToDate`	End date of the time range for this item's terms in the format *`YYYY`* - *`MM`* - *`DD`*.
`Active`	An `Active` attribute shows the element's object is active.
`LastModified`	A `LastModified` attribute shows the date and time the element's object was last modified.

Unique Identifier

The values of the following elements together identify a unique data set:

- `ItemId`
- `SupplierId`
- `PlantId`
- `ValidFromDate`

Example

```
<RFXItemSupplierList>
        <RFXItemSupplier>
            <ItemId>XZ60000-028</ItemId>
            <RfxId>Doc845333</RfxId>
            <SupplierId>2000002</SupplierId>
            <SupplierName>Javatec.com</SupplierName>
            <PlantId>0001</PlantId>
            <PlantName>Werk 0001</PlantName>
            <SAPPlantId>0001</SAPPlantId>
            <ValidFromDate>2018-05-01</ValidFromDate>
            <ValidToDate>2018-07-31</ValidToDate>
            <LastModified>2018-05-11T10:28:37Z</LastModified>
            <Active>true</Active>
        </RFXItemSupplier>
        <RFXItemSupplier>
            <ItemId>XZ20000-001</ItemId>
            <RfxId>Doc845287</RfxId>
            <SupplierId>2000001</SupplierId>
            <SupplierName>BigBox Retail</SupplierName>
            <PlantId>0020</PlantId>
            <PlantName>Longwood, FL</PlantName>
            <SAPPlantId>0020</SAPPlantId>
            <ValidFromDate>2018-05-11</ValidFromDate>
            <ValidToDate>2019-06-30</ValidToDate>
            <LastModified>2018-05-11T09:57:27Z</LastModified>
            <Active>true</Active>
        </RFXItemSupplier>
    .
    .
</RFXItemSupplierList>
```

RFXStandardTermList

An `ItemInfo` element contains an `RFXStandardTermList` element if the URL for the export web pricing updates request included an `objectType=RFXStandardTermList` parameter or the `objectType` parameter was omitted. The `RFXStandardTermList` element contains a list of changed or added RFx standard terms.

The `RFXStandardTermList` element contains 0 or more `RFXStandardTerm` elements. Each `RFXStandardTerm` element contains information about a standard term that was updated or added within the time range specified in the URL for the export pricing updates web service.

Each `RFXStandardTerm` element contains the following child elements:

`ItemId`	Identifies the item.

`RfxId`	Identifies the RFx.
`SupplierId`	SAP supplier ID of the supplier providing the item.
`SupplierName`	Name of the supplier providing the item.
`PlantId`	ID for the plant producing the part.
`PlantName`	SAP name for the plant producing the part.
`SAPPlantId`	SAP ID for the plant producing the part.
`ValidFromDate`	Start date of the time range for this item's terms in the format *`YYYY`* - *`MM`* - *`DD`*.
`ValidToDate`	End date of the time range for this item's terms in the format *`YYYY`* - *`MM`* - *`DD`*.
`Incoterms`	A series of pre-defined commercial terms.
`ItemCategory`	As defined by the external system (not shown and not used).
`LeadTime`	The amount of time the supplier needs to provide the material.
`ManufacturerName`	The name of the manufacturer of the item.
`ManufacturerPartId`	The part ID from the manufacturer.
`MaterialGroup`	The group for the item.
`Plant`	The plant for the item.
`SupplierPartAuxiliaryId`	SAP secondary supplier part ID.
`SupplierPartId`	SAP supplier part ID.
`Active`	An `Active` attribute shows the element's object is active.
`LastModified`	A `LastModified` attribute shows the date and time the element's object was last modified.

Unique Identifier

The values of the following elements together identify a unique data set:

- `ItemId`
- `SupplierId`
- `PlantId`
- `ValidFromDate`

Example

```
<RFXStandardTermList>
        <RFXStandardTerm>
            <ItemId>XZ10000-005</ItemId>
            <RfxId>Doc844940</RfxId>
            <SupplierId>2000001</SupplierId>
            <SupplierName>BigBox Retail</SupplierName>
            <PlantId>0014</PlantId>
            <PlantName>Farmington, CT</PlantName>
            <SAPPlantId>0014</SAPPlantId>
            <ValidFromDate>2018-05-01</ValidFromDate>
            <ValidToDate>2018-08-31</ValidToDate>
            <Incoterms>DAT</Incoterms>
            <ItemCategory>NORM</ItemCategory>
            <LeadTime>21</LeadTime>
            <ManufacturerName>BuildInc</ManufacturerName>
            <ManufacturerPartId>M0221</ManufacturerPartId>
            <MaterialGroup>WDEP</MaterialGroup>
            <Plant>0014</Plant
            <SupplierPartAuxiliaryId>S00221</SupplierPartAuxiliaryId
            <SupplierPartId>V00433</SupplierPartId>
            <LastModified>2018-05-11T11:04:54Z</LastModified>
            <Active>true</Active>
        </RFXStandardTerm>
        <RFXStandardTerm>
            <ItemId>XZ20000-001</ItemId>
            <RfxId>Doc845287</RfxId>
            <SupplierId>2000001</SupplierId>
            <SupplierName>BigBox Retail</SupplierName>
            <PlantId>0020</PlantId>
            <PlantName>Longwood, FL</PlantName>
            <SAPPlantId>0020</SAPPlantId>
            <ValidFromDate>2018-05-11</ValidFromDate>
            <ValidToDate>2019-06-30</ValidToDate>
            <LeadTime>21</LeadTime>
            <Plant>0020</Plant>
            <SupplierPartId>V00433</SupplierPartId>
            <LastModified>2018-05-11T09:57:28Z</LastModified>
            <Active>true</Active>
        </RFXStandardTerm>
    .
    .
</RFXStandardTermList>
```

RFXCustomTermList

An `ItemInfo` element contains an `RFXCustomTermList` element if the URL for the export web pricing updates request included an `objectType=RFXCustomTermList` parameter or the `objectType` parameter was omitted. The `RFXCustomTermList` element contains a list of changed or added RFx custom terms.

The `RFXCustomTermList` element contains 0 or more `RFXCustomTerm` elements. Each `RFXCustomTerm` element contains information about a custom term that was updated or added within the time range specified in the URL for the export pricing updates web service.

Each `RFXCustomTerm` element contains the following child elements:

`ItemId`	Identifies the item.
`RfxId`	Identifies the RFx.
`SupplierId`	SAP supplier ID of the supplier providing the item.
`SupplierName`	Name of the supplier providing the item.
`PlantId`	ID for the plant producing the part.
`PlantName`	SAP name for the plant producing the part.
`SAPPlantId`	SAP ID for the plant producing the part.
`ValidFromDate`	Start date of the time range for this item's terms in the format *`YYYY`* - *`MM`* - *`DD`*.
`ValidToDate`	End date of the time range for this item's terms in the format *`YYYY`* - *`MM`* - *`DD`*.
`Name`	The name of the custom term.
`Value`	The value for the custom term.
`Active`	An `Active` attribute shows the element's object is active.
`LastModified`	A `LastModified` attribute shows the date and time the element's object was last modified.

Unique Identifier

The values of the following elements together identify a unique data set:

- `ItemId`
- `SupplierId`
- `PlantId`
- `ValidFromDate`
- `Name`
- `Value`

Example

```
<RFXCustomTermList>
        <RFXCustomTerm>
```

```
            <ItemId>XZ10000-005</ItemId>
            <RfxId>Doc844940</RfxId>
            <SupplierId>2000001</SupplierId>
            <SupplierName>BigBox Retail</SupplierName>
            <PlantId>0014</PlantId>
            <PlantName>Farmington, CT</PlantName>
            <SAPPlantId>0014</SAPPlantId>
            <ValidFromDate>2018-05-01</ValidFromDate>
            <ValidToDate>2018-08-31</ValidToDate>
            <Name>Lead Time</Name>
            <Value>221</Value>
            <LastModified>2018-05-11T11:04:54Z</LastModified>
            <Active>true</Active>
        </RFXCustomTerm>
        <RFXCustomTerm>
            <ItemId>XZ20000-001</ItemId>
            <RfxId>Doc845287</RfxId>
            <SupplierId>2000001</SupplierId>
            <SupplierName>BigBox Retail</SupplierName>
            <PlantId>0020</PlantId>
            <PlantName>Longwood, FL</PlantName>
            <SAPPlantId>0020</SAPPlantId>
            <ValidFromDate>2018-05-11</ValidFromDate>
            <ValidToDate>2019-06-30</ValidToDate>
            <Name>Factory</Name>
            <Value>[]</Value>
            <LastModified>2018-05-11T09:57:28Z</LastModified>
            <Active>true</Active>
        </RFXCustomTerm>
    .
    .
</RFXCustomTermList>
```

ItemList

An `ItemInfo` element contains an `ItemList` element if the URL for the export web pricing updates request included an `object=ItemList` parameter or the `object` parameter was omitted. The `ItemList` element contains a list of parts that have changed or added.

The `ItemList` element contains 0 or more `Item` elements. Each `Item` element contains information about an item that was updated or added within the time range specified in the URL for the export pricing updates web service.

> **Note**
>
> Only items with `Owner` and `PartTypeId` assigned are exported.

Each `Item` element contains the following child elements:

`ItemId`	Identifies the item.
`OwnerId`	User ID of the person assigned to this item.
`OwnerName`	Name of the person assigned to this item.
`Description`	Item description.
`UOM`	Unit of measure and quantity for the item.

`PartTypeId`	User-defined part type ID, such as `Consigned` or `Ad Hoc`. Your organization might not include a value for this element.
`PartTypeDescription`	User-defined description for the `PartTypeId`. Your organization might not include a value for this element.
`Category`	Category for the part. Your organization might not include a value for this element.
`ClassPath`	The parameter that specifies the location of the user-defined classes and packages. Your organization might not include a value for this element.
`MaturityLevel`	User-defined maturity level. Your organization might not include a value for this element.
`ItemStatus`	User-defined item status. Your organization might not include a value for this element.
`Project`	User-defined project where this part is assigned.
`Active`	An `Active` attribute shows the element's object is active.
`LastModified`	A `LastModified` attribute shows the date and time the element's object was last modified.
`MaterialGroupID`	Identifies the material group.
`MaterialGroupDescription`	Material group description.

Unique Identifier

The value of the following element identifies a unique data set:

- `ItemId`

Example

```
<ItemList>
        <Item>
            <ItemId>XZ130000-021</ItemId>
            <OwnerId>A22345</OwnerId>
          <OwnerName>Arnold Davis</OwnerName>
            <Description>LONG_YXXY_DESC_13_021</Description>
```

```
            <UOM>hrs</UOM>
            <PartTypeId>CONS</PartTypeId>
            <PartTypeDescription>Consigned type</PartTypeDescription>
            <MaterialGroupId>XYZ_DEMO</MaterialGroupId>
            <MaterialGroupDesc>XYZ_Description</MaterialGroupDesc>
            <Category>NORM</Category>
            <ClassPath>/Part/Electromechanical/Cable</ClassPath>
            <MaturityLevel>EV</MaturityLevel>
            <ItemStatus>Z3</ItemStatus>
            <Project>PROJECT_Z</Project>
            <Active>true</Active>
            <LastModified>2018-05-11T08:14:58Z</LastModified>
        </Item>
        <Item>
            <ItemId>XZ130000-029</ItemId>
            <OwnerId>A22345</OwnerId>
            <OwnerName>Arnold Davis</OwnerName>
            <Description>LONG_YXXY_DESC_13_029</Description>
            <PartTypeId>ASSY</PartTypeId>
            <PartTypeDescription>Assembly type</PartTypeDescription>
            <LastModified>2018-05-11T08:21:03Z</LastModified>
        </Item>
    .
    .
</ItemList>
```

ItemPriceList

An `ItemInfo` element contains an `ItemPriceList` element if the URL for the export web pricing updates request included an `object=ItemPriceList` parameter or the `object` parameter was omitted. The `ItemPriceList` element contains a list of pricing terms for all items that have changed or added pricing terms.

The `ItemPriceList` element contains 0 or more `ItemPrice` elements. Each `ItemPrice` element contains information about a pricing term for an item that was updated or added within the time range specified in the URL for the export pricing updates web service. If an item pricing term is changed or added for a given validity period, all pricing terms for item are exported.

Each `ItemPrice` element contains the following child elements:

`PlantId`	ID for the plant producing the part.
`PlantName`	SAP name for the plant producing the part.
`SAPPlantId`	SAP ID for the plant producing the part.
`ItemId`	Identifies the item.
`SupplierId`	SAP supplier ID for the supplier providing the item.
`SupplierName`	Name of the supplier providing the item.
`ValidFromDate`	Start date of the validity period for this pricing term in the format *`YYYY`* - *`MM`* - *`DD`*.

`ValidToDate`	End date of the validity period for this pricing term in the format *`YYYY`* - *`MM`* - *`DD`*.
`PriceType`	The item price type.
`Price`	The item price.
`Currency`	Currency for the item price.
`Active`	An `Active` attribute shows the element's object is active.
`LastModified`	A `LastModified` attribute shows the date and time the element's object was last modified.

Unique Identifier

The values of the following elements together identify a unique data set:

- `ItemId`
- `PlantId`
- `SupplierId`
- `ValidityFromDate`

Example

```
<ItemPriceList>
        <ItemPrice>
            <ItemId>XZ10000-005</ItemId>
            <PlantId>0014</PlantId>
            <PlantName>Farmington, CT</PlantName>
            <SAPPlantId>0014</SAPPlantId>
            <SupplierId>2000001</SupplierId>
            <SupplierName>BigBox Retail</SupplierName>
            <ValidFromDate>2018-05-01</ValidFromDate>
            <ValidToDate>2018-05-31</ValidToDate>
            <PriceType>C</PriceType>
            <Price>3</Price>
            <Currency>USD</Currency>
            <LastModified>2018-05-11T11:04:53Z</LastModified>
            <Active>true</Active>
        </ItemPrice>
        <ItemPrice>
            <ItemId>XZ10000-005</ItemId>
            <PlantId>0014</PlantId>
            <PlantName>Farmington, CT</PlantName>
            <SAPPlantId>0014</SAPPlantId>
            <SupplierId>2000001</SupplierId>
            <SupplierName>BigBox Retail</SupplierName>
            <ValidFromDate>2018-06-01</ValidFromDate>
            <ValidToDate>2018-06-30</ValidToDate>
            <PriceType>C</PriceType>
```

```
            <Price>3</Price>
            <Currency>USD</Currency>
            <LastModified>2018-05-11T11:04:53Z</LastModified>
            <Active>true</Active>
        </ItemPrice>
    .
    .
</ItemPriceList>
```

ItemAMLSplitList

An `ItemInfo` element contains an `ItemAMLSplitList` element if the URL for the export web pricing updates request included an `object=ItemAMLSplitList` parameter or the `object` parameter was omitted. The `ItemAMLSplitList` element contains a list of split information for each AML (Approved Manufacturer List) item in the `ItemAMLList`.

The `ItemAMLSplitList` element contains 0 or more `ItemAMLSplit` elements. Each `ItemAMLSplit` element contains split information about an AML item in the `ItemAMLList` for a given time period.

Each `ItemAMLSplit` element contains the following child elements:

`PlantId`	ID for the plant producing the part.
`PlantName`	SAP name for the plant manufacturing this item.
`SAPPlantId`	SAP ID for the plant producing the part.
`ItemId`	Identifies the item.
`SupplierId`	SAP supplier ID for the supplier providing the item.
`SupplierName`	Name of the supplier providing the item.
`MfrPartNumber`	Part number for this item assigned by the supplier.
`ValidFromDate`	Start date of the validity period for this split percentage in the format *`YYYY`* - *`MM`* - *`DD`*.
`ValidToDate`	End date of the validity period for this split percentage in the format *`YYYY`* - *`MM`* - *`DD`*.
`SplitPercentage`	Percentage of the quantity for this item allocated to the manufacturer specified by the `SupplierID`.
`Active`	An `Active` attribute shows the element's object is active.
`LastModified`	A `LastModified` attribute shows the date and time the element's object was last modified.

Unique Identifier

The values of the following elements together identify a unique data set:

- `ItemId`
- `PlantId`
- `SupplierId`
- `ValidFromDate`

Example

```
<ItemAMLSplitList>
        <ItemAMLSplit>
            <ItemId>XZ10000-030</ItemId>
            <PlantId>0031</PlantId>
            <PlantName>Bloomington, MN</PlantName>
            <SAPPlantId>0031</SAPPlantId>
            <SupplierId>2000002</SupplierId>
            <SupplierName>Javatec.com</SupplierName>
            <MfrPartNumber>V00433</MfrPartNumber>
            <ValidFromDate>2018-05-01</ValidFromDate>
            <ValidToDate>2018-05-31</ValidToDate>
            <SplitPercentage></SplitPercentage>
            <LastModified>2018-05-11T07:06:04Z</LastModified>
            <Active>true</Active>
        </ItemAMLSplit>
        <ItemAMLSplit>
            <ItemId>XZ10000-002</ItemId>
            <PlantId>0031</PlantId>
            <PlantName>Bloomington, MN</PlantName>
            <SAPPlantId>0031</SAPPlantId>
            <SupplierId>2000001</SupplierId>
            <SupplierName>BigBox Retail</SupplierName>
            <MfrPartNumber>V00433</MfrPartNumber>
            <ValidFromDate>2018-05-01</ValidFromDate>
            <ValidToDate>2018-05-31</ValidToDate>
            <SplitPercentage>100</SplitPercentage>
            <LastModified>2018-05-11T07:23:55Z</LastModified>
            <Active>true</Active>
        </ItemAMLSplit>
    .
    .
</ItemAMLSplitList>
```

BomList

An `ItemInfo` element contains a `BomList` element if the URL for the export web pricing updates request included an `object=BomList` parameter or the `object` parameter was omitted. The `BomList` element contains a list of all BOM items that have been changed or added.

The `BomList` element contains 0 or more `BOM` elements. Each `BOM` element contains information about a BOM item that was updated or added within the time range specified in the URL for the export pricing updates web service.

Each `Bom` element contains the following child elements:

`ChildItemId`	**Item ID** of the BOM item.
`ParentItemId`	**Item ID** of the BOM for the item's parent material.
`ChildEffectiveFromDate`	Start date of the validity period for the BOM containing this item in the format *`YYYY`* - *`MM`* - *`DD`*.
`ChildEffectiveToDate`	End date of the validity period for the BOM containing this item in the format *`YYYY`* - *`MM`* - *`DD`*.
`ChildItemNumber`	Item number in the BOM.
`Quantity`	Quantity for this item.
`ItemText2`	User-defined `ItemText2` value for this item. Your organization might use this for additional information about this item, such as a "Find Number."
`ItemNodeNumber`	As defined by the external system (not shown).
`ItemGroup`	SAP Ariba **Item Group** field. Interchangeable or replacement parts have the same `ItemGroup` value.
`ParentEffectiveFromDate`	Start date of the validity period for the BOM containing this item's parent material in the format *`YYYY`* - *`MM`* - *`DD`*.
`ParentEffectiveToDate`	End date of the validity period for the BOM containing this item's parent material in the format *`YYYY`* - *`MM`* - *`DD`*.
`BomNumber`	Number identifying the BOM.
`AlternativeBomNumber`	Alternative number identifying the BOM. Your organization might not include a value for this element.
`Active`	An `Active` attribute shows the element's object is active.
`LastModified`	A `LastModified` attribute shows the date and time the element's object was last modified.

Unique Identifier

The values of the following elements together identify a unique data set:

- `ChildItemId`
- `ParentItemId`
- `ChildItemNumber`
- `ChildEffectiveFromDate`

Example

```
<BomList>
        <Bom>
            <ChildItemId>ITEM-1526031126438</ChildItemId>
            <ParentItemId>XZ10000-009</ParentItemId>
            <ChildEffectiveFromDate>2016-08-31</ChildEffectiveFromDate>
            <ChildEffectiveToDate>2018-05-10</ChildEffectiveToDate>
            <ChildItemNumber>C0221</ChildItemNumber>
            <Quantity>1000.0</Quantity>
            <ItemText2>221</ItemText2>
            <ItemNodeNumber>1526031125435</ItemNodeNumber>
            <ItemGroup>02</ItemGroup>
            <ParentEffectiveFromDate>2016-08-31</ParentEffectiveFromDate>
            <ParentEffectiveToDate>9000-12-31</ParentEffectiveToDate>
            <BomNumber>98700009</BomNumber>
            <AlternativeBomNumber>01</AlternativeBomNumber>
            <LastModified>2018-05-11T09:40:01Z</LastModified
            <Active>true</Active>
        </Bom>
        <Bom>
            <ChildItemId>ITEM-1526031952974</ChildItemId>
            <ParentItemId>XZ10000-010</ParentItemId>
            <ChildEffectiveFromDate>2016-08-31</ChildEffectiveFromDate>
            <ChildEffectiveToDate>2018-05-10</ChildEffectiveToDate>
            <Quantity>100.0</Quantity>
            <ItemNodeNumber>1526031951272</ItemNodeNumber>
            <ParentEffectiveFromDate>2016-08-31</ParentEffectiveFromDate>
            <ParentEffectiveToDate>9000-12-31</ParentEffectiveToDate>
            <BomNumber>98700010</BomNumber>
            <AlternativeBomNumber>01</AlternativeBomNumber>
            <LastModified>2018-05-11T09:46:48Z</LastModified>
        </Bom>
    .
    .
</BomList>
```

ItemAttributeList

An `ItemInfo` element contains an `ItemAttributeList` element if the URL for the export web pricing updates request included an `object=ItemAttributeList` parameter or the `object` parameter was omitted. The `ItemAttributeList` element contains a list with attributes for each item in the `ItemAttributeList`.

The `ItemAttributeList` element contains 0 or more `ItemAttribute` elements. Each `ItemAttribute` element contains information about an item that was updated or added within the time range specified in the URL for the export pricing updates web service.

Each `ItemAttribute` element contains the following child elements:

`ItemId`	Identifies the item.
`AttributeType`	The attribute type for the item.
`Value`	The value for the item.
`Active`	An `Active` attribute shows the element's object is active.
`LastModified`	A `LastModified` attribute shows the date and time the element's object was last modified.

Unique Identifier

The values of the following elements together identify a unique data set:

- `ItemId`
- `AttributeType`

Example

```
<ItemAttributeList>
        <ItemAttribute>
            <ItemId>XZ10000-005</ItemId>
            <AttributeType>CSL</AttributeType>
            <Value>true</Value>
            <LastModified>2018-05-11T09:38:58Z</LastModified>
            <Active>true</Active>
        </ItemAttribute>
        <ItemAttribute>
            <ItemId>ITEM-1526024283836</ItemId>
            <AttributeType>CSL</AttributeType>
            <Value>true</Value>
            <LastModified>2018-05-11T07:59:01Z</LastModified>
            <Active>true</Active>
        </ItemAttribute>
    .
    .
</ItemAttributeList>
```

BomSplitList

An `ItemInfo` element contains a `BomSplitList` element if the URL for the export web pricing updates request included an `object=BomSplitList` parameter or the `object` parameter was omitted. The `BOMSplitList` element contains a list of split information for each BOM item in the `BOMList`.

The `BOMSplitList` element contains 0 or more `BOMSplit` elements. Each `BOMSplit` element contains split information about a BOM item in the `BOMList` for a given time period.

Each `BOMSplit` element contains the following child elements:

`ItemId`	**Item ID** of the BOM item.
`ParentItemId`	**Item ID** of the BOM containing this item's parent material.
`ValidFromDate`	Start date of the validity period for this split percentage in the format *`YYYY`* - *`MM`* - *`DD`*.
`ValidToDate`	End date of the validity period for this split percentage in the format *`YYYY`* - *`MM`* - *`DD`*.
`SplitPercentage`	Percentage of the quantity for this item allocated to the manufacturer specified by the `PlantID`.
`PlantId`	ID for the plant producing the part.
`PlantName`	SAP name for the plant producing the part.
`SAPPlantId`	SAP ID for the plant producing the part.
`ItemText2`	User-defined `ItemText2` value for this item. Your organization might use this for additional information about this item, such as a "Find Number."
`ItemGroup`	SAP Ariba **Item Group** field. Interchangeable or replacement parts have the same `ItemGroup` value.
`ItemNodeNumber`	As defined by the external system (not shown).
`Active`	An `Active` attribute shows the element's object is active.
`LastModified`	A `LastModified` attribute shows the date and time the element's object was last modified.

Unique Identifier

The values of the following elements together identify a unique data set:

- `ItemId`

- `ParentItemId`
- `ValidFromDate`

Example

```
<BomSplitList>
    <BomSplit>
        <ItemId>M1039432-001</ItemId>
        <ParentItemId>M1020448-001</ParentItemId>
        <ValidFromDate>2018-04-01</ValidFromDate>
        <ValidToDate>2018-04-30</ValidToDate>
        <SplitPercentage>70</SplitPercentage>
        <PlantId>4406</PlantId>
        <PlantName>Plant451</PlantName>
       <SAPPlantId>4406</SAPPlantId>
        <ItemText2>240</ItemText2>
        <ItemGroup>03</ItemGroup>
        <ItemNodeNumber>00000085</ItemNodeNumber>
        <LastModified>2018-04-02T17:43:53Z</LastModified>
       <Active>true</Active>
    </BomSplit>
    <BomSplit>
       <ItemId>M1039432-001</ItemId>
        <ParentItemId>M1020448-001</ParentItemId>
        <ValidFromDate>2018-07-01</ValidFromDate>
        <ValidToDate>2018-07-31</ValidToDate>
        <SplitPercentage>55</SplitPercentage>
        <PlantId>4406</PlantId>
        <PlantName>Plant451</PlantName>
       <SAPPlantId>4406</SAPPlantId>
        <ItemText2>240</ItemText2>
        <ItemGroup>03</ItemGroup>
        <ItemNodeNumber>00000085</ItemNodeNumber>
        <LastModified>2018-04-02T17:43:53Z</LastModified>
       <Active>true</Active>
    </BomSplit>
    .
    .
</BomSplitList>
```

ItemPlantList

An `ItemInfo` element contains an `ItemPlantList` element if the URL for the export web pricing updates request included an `object=ItemPlantList` parameter or the `object` parameter was omitted. The `ItemPlantList` element contains a list of items produced by or assigned to a plant.

The `ItemPlantList` element contains 0 or more `ItemPlant` elements. Each `ItemPlant` element specifies an assignment of an item to the plant that produces it. There is an `ItemPlant` element for each assignment that was added or changed within the time range specified in the URL for the export pricing updates web service.

Each `ItemPlant` element contains the following child elements:

`ItemId`	Identifies the item.

`PlantId`	ID for the plant producing the part.
`PlantName`	SAP name for the plant manufacturing this item.
`SAPPlantId`	SAP ID for the plant producing the part.
`Active`	An `Active` attribute shows the element's object is active.
`LastModified`	A `LastModified` attribute shows the date and time the element's object was last modified.

Unique Identifier

The values of the following elements together identify a unique data set:

- `ItemId`
- `PlantId`

Example

```
<ItemPlantList>
        <ItemPlant>
            <ItemId>XZ130000-021</ItemId>
            <PlantId>0025</PlantId>
            <PlantName>Ames, IA</PlantName>
            <SAPPlantId>0025</SAPPlantId>
            <LastModified>2018-05-11T07:33:04Z</LastModified>
            <Active>false</Active>
        </ItemPlant>
        <ItemPlant>
            <ItemId>XZ20000-002</ItemId>
            <PlantId>0025</PlantId>
            <PlantName>Ames, IA</PlantName>
            <SAPPlantId>0025</SAPPlantId>
            <LastModified>2018-05-11T08:44:01Z</LastModified>
            <Active>true</Active>
        </ItemPlant>
    .
    .
</ItemPlantList>
```

ItemProgramList

An `ItemInfo` element contains an `ItemProgramList` element if the URL for the export web pricing updates request included an `object=ItemProgramList` parameter or the `object` parameter was omitted. The `ItemProgramList` element contains a list of items assigned to a new program.

The ability to assign programs in the user interface is not available when the `BOM_V2_ENABLED` parameter is enabled. The `BOM_V2_ENABLED` parameter is enabled by default for all sites deployed after January 2020. For more information about the `BOM_V2_ENABLED` parameter, see Supported Bill of Materials (BOM) Types [page 160].

The `ItemProgramList` element contains 0 or more `ItemProgram` elements. Each `ItemProgram` element specifies an assignment of an item to a program. There is an `ItemProgram` element for each assignment that was added or changed within the time range specified in the URL for the export pricing updates web service.

Each `ItemProgram` element contains the following child elements:

`ItemId`	Identifies the item.
`ProgramId`	ID of the program to which the material is assigned.
`ProgramName`	Name of program to which this material is assigned.
`Active`	An `Active` attribute shows the element's object is active.
`LastModified`	A `LastModified` attribute shows the date and time the element's object was last modified.

Unique Identifier

The values of the following elements together identify a unique data set:

- `ItemId`
- `ProgramId`

Example

```
<ItemProgramList>
        <ItemProgram>
            <ItemId>XZ10000-001</ItemId>
            <ProgramId>20</ProgramId>
            <ProgramName>CASTLE</ProgramName>
            <LastModified>2018-05-11T08:14:29Z</LastModified>
            <Active>false</Active>
        </ItemProgram>
        <ItemProgram>
            <ItemId>XZ130000-029</ItemId>
            <ProgramId>20</ProgramId>
            <ProgramName>CASTLE</ProgramName>
            <LastModified>2018-05-11T08:19:53Z</LastModified>
            <Active>true</Active>
```

```
        </ItemProgram>
    .
    .
</ItemProgramList>
```

PlantList

An `ItemInfo` element contains a `PlantList` element if the URL for the export web pricing updates request included an `object=PlantList` parameter or the `object` parameter was omitted. The `PlantList` element contains a list of plant names and IDs.

The `PlantList` element contains 0 or more `Plant` elements. There is a `Plant` element for each assignment that was added or changed within the time range specified in the URL for the export pricing updates web service.

Each `Plant` element contains the following child elements:

`PlantId`	ID for the plant producing the part.
`PlantName`	Name for the plant.
`SAPPlantId`	SAP ID for the plant producing the part.
`Active`	An `Active` attribute shows the element's object is active.
`LastModified`	A `LastModified` attribute shows the date and time the element's object was last modified.

Unique Identifier

The values of the following elements together identify a unique data set:

- `PlantId`

Example

```
<PlantList>
        <Plant>
            <PlantId>9346</PlantId>
            <PlantName>Russia Plant</PlantName>
            <SAPPlantId>46</SAPPlantId>
            <LastModified>2018-05-11T09:42:02Z</LastModified>
            <Active>true</Active>
        </Plant>
    .
    .
</PlantList>
```

ProgramList

An `ItemInfo` element contains a `ProgramList` element if the URL for the export web pricing updates request included an `object=ProgramList` parameter or the `object` parameter was omitted. The `ProgramList` element contains a list of program names and IDs.

The ability to assign programs in the user interface is not available when the `BOM_V2_ENABLED` parameter is enabled. The `BOM_V2_ENABLED` parameter is enabled by default for all sites deployed after January 2020. For more information about the `BOM_V2_ENABLED` parameter, see Supported Bill of Materials (BOM) Types [page 160].

The `ProgramList` element contains 0 or more `Program` elements. Each `Program` element specifies an assignment of a program name and program ID . There is a `Program` element for each assignment that was added or changed within the time range specified in the URL for the export pricing updates web service.

Each `Program` element contains the following child elements:

`ProgramId`	ID of the program.
`ProgramName`	Name of the program.
`Active`	An `Active` attribute shows the element's object is active.
`LastModified`	A `LastModified` attribute shows the date and time the element's object was last modified.

Unique Identifier

The values of the following elements together identify a unique data set:

- `ProgramId`

Example

```
<ProgramList>
        <Program>
            <ProgramId>100</ProgramId>
            <ProgramName>PROJECT G</ProgramName>
            <LastModified>2018-05-11T09:44:54Z</LastModified>
            <Active>true</Active>
        </Program>
        <Program>
            <ProgramId>101</ProgramId>
            <ProgramName>PROJECT H</ProgramName>
            <LastModified>2018-05-11T09:44:54Z</LastModified>
            <Active>true</Active>
        </Program>
    .
    .
</ProgramList>
```

ItemLeadTimeList

An `ItemInfo` element contains an `ItemLeadTimeList` element if the URL for the export web pricing updates request included an `object=ItemLeadTimeList` parameter or the `object` parameter was omitted. The `ItemLeadTimeList` element contains a list of items assigned to suppliers and their lead times.

The `ItemLeadTimeList` element contains 0 or more `ItemLeadTime` elements. Each `ItemLeadTime` element specifies an assignment of an estimated lead time to an item. There is an `ItemLeadTime` element for each assignment that was added or changed within the time range specified in the URL for the export pricing updates web service.

Each `ItemLeadTime` element contains the following child elements:

`ItemId`	Identifies the item.
`PlantId`	ID for the plant producing the part.
`PlantName`	SAP name for the plant manufacturing this item.
`SAPPlantId`	SAP ID for the plant producing the part.
`SupplierId`	SAP supplier ID for the supplier providing the item.
`SupplierName`	Name of the supplier providing the item.
`EstimatedLeadTime`	The amount of time the buyer anticipates the supplier needs to provide the item.
`Active`	An `Active` attribute shows the element's object is active.
`LastModified`	A `LastModified` attribute shows the date and time the element's object was last modified.

Unique Identifier

The values of the following elements together identify a unique data set:

- `ItemId`
- `PlantId`
- `SupplierId`

Example

```
<ItemLeadTimeList>
        <ItemLeadTime>
            <ItemId>XZ10000-001</ItemId>
            <PlantId>0031</PlantId>
```

```
            <PlantName>Bloomington, MN</PlantName>
            <SAPPlantId>0031</SAPPlantId>
            <SupplierId>2000001</SupplierId>
            <SupplierName>BigBox Retail</SupplierName>
            <EstimatedLeadTime></EstimatedLeadTime>
            <LastModified>2018-05-11T07:06:04Z</LastModified>
            <Active>true</Active>
        </ItemLeadTime>
        <ItemLeadTime>
            <ItemId>XZ10000-002</ItemId>
            <PlantId>0031</PlantId>
            <PlantName>Bloomington, MN</PlantName>
            <SAPPlantId>0031</SAPPlantId>
            <SupplierId>2000001</SupplierId>
            <SupplierName>BigBox Retail</SupplierName>
            <EstimatedLeadTime>3</EstimatedLeadTime>
            <LastModified>2018-05-11T07:24:04Z</LastModified>
            <Active>true</Active>
        </ItemLeadTime>
    .
    .
</ItemLeadTimeList>
```

ItemAMLList

An `ItemInfo` element contains an `ItemAMLList` element if the URL for the export web pricing updates request included an `object=ItemAMLList` parameter or the `object` parameter was omitted. The `ItemAMLList` element contains a list of all AML (Approved Manufacturer List) items that have been changed or added.

The `ItemAMLList` element contains 0 or more `ItemAML` elements. Each `ItemAML` element contains information about an AML item that was jupdated or added for a given time period.

Each `ItemAML` element contains the following child elements:

`ItemId`	Identifies the item.
`SupplierId`	SAP supplier ID for the supplier providing the item.
`SupplierName`	Name of the supplier providing the item.
`MfrPartNumber`	Part number for this item assigned by the supplier.
`Active`	An `Active` attribute shows the element's object is active.
`LastModified`	A `LastModified` attribute shows the date and time the element's object was last modified.

Unique Identifier

The values of the following elements together identify a unique data set:

- `ItemId`

- SupplierId

Example

```
<ItemAMLList>
        <ItemAML>
            <ItemId>ITEM-1526024283836</ItemId>
            <SupplierId>2000001</SupplierId>
            <SupplierName>BigBox Retail</SupplierName>
            <MfrPartNumber>44232</MfrPartNumber>
            <LastModified>2018-05-11T07:38:06Z</LastModified>
            <Active>true</Active>
        </ItemAML>
        <ItemAML>
            <ItemId>ITEM-1526031126438</ItemId>
            <SupplierId>2000002</SupplierId>
            <SupplierName>Javatec.com</SupplierName>
            <MfrPartNumber>1234</MfrPartNumber>
            <LastModified>2018-05-11T09:32:05Z</LastModified>
            <Active>true</Active>
        </ItemAML>
    .
    .
</ItemAMLList>
```

CustomFieldsList

An `ItemInfo` element contains a `CustomFieldsList` element if the URL for the export web pricing updates requests included an `object=CustomFieldsList` parameter or the `object` parameter was omitted. The `CustomFieldsList` element contains a list of custom field IDs, names, types, and values.

The `CustomFieldsList` element contains 0 or more `CustomFields` elements. Each `CustomFields` element specifies an assignment of a custom field ID, custom field name, type, and custom field value. There is a `CustomFields` element for each assignment that was added or changed within the time range specified in the URL for the export pricing updates web service.

Each `CustomFields` element contains the following child elements:

`CustomFieldId`	ID of the custom field.
`CustomFieldName`	Name of the custom field.
`Type`	The custom field type. The type can be string, numeric, or boolean.
`CustomFieldValue`	The value of the field from product sourcing.
`Active`	An `Active` attribute shows the element's object is active.

`LastModified`	A `LastModified` attribute shows the date and time the element's object was last modified.

Unique Identifier

The values of the following elements together identify a unique data set:

- `ItemId`
- `CustmFieldId`

Example

```
<CustomFieldsList>
        <CustomFields>
            <ItemId>AC1000-222</ItemId>
          <CustomFieldId>cf123</CustomFieldId>
            <CustomFieldName>custom123</CustomFieldName>
          <Type>string</Type>
          <CustomFieldValue>ABC</CustomFieldValue>
            <LastModified>2019-05-11T09:44:54Z</LastModified>
            <Active>true</Active>
        </CustomFields>
         <CustomFields>
            <ItemId>AC1100-333</ItemId>
          <CustomFieldId>cf234</CustomFieldId>
            <CustomFieldName>custom234</CustomFieldName>
          <Type>string</Type>
          <CustomFieldValue>BCD</CustomFieldValue>
            <LastModified>2019-05-11T09:44:54Z</LastModified>
            <Active>true</Active>
        </CustomFields>
    .
    .
</CustomFieldsList>
```

Summary

An `ItemInfo` element contains a `Summary` when processing the export pricing updates request. The `Summary` extracts statistics from the export pricing updates web service download.

Each data type in the `Summary` has an `Export` count and a `Total` count. The `Export` count is the current count of objects exported in that time period. The `Total` count is the total number of records under the `todate`. Any discrepancies are found by comparing the `Total` count with the original product sourcing tables in XML format.

Each `Summary` element contains the following query parameters:

`QueryFromDate`	The start date and time for the query.
`QueryToDate`	The end date and time for the query.
`QueryObjectType`	The object types in the query.
`ProcessBegin`	The date and time the export pricing updates web service began.
`ProcessEnd`	The date and time the export pricing updates web service ended.
`Extract Statistics`	A list of the data types (`RFXList`, `RFXItemList`, `ItemList`, etc. from the query with an `Export` and `Total` count for each data type.

Example

```
<Summary>
        <status>OK</status>
        <QueryFromDate>2018-05-11T00:00:00PST</QueryFromDate>
        <QueryToDate>2018-05-11T23:59:59PST</QueryToDate>
        <QueryObjectType>All</QueryObjectType>
        <ProcessBegin>2018-05-11T22:40:55PDT</ProcessBegin>
        <ProcessEnd>2018-05-11T22:40:56PDT</ProcessEnd>
        <ExtractStatistics>
            <ItemAMLList>
                <Export>5</Export>
                <Total>650</Total>
            </ItemAMLList>
            <ItemLeadTimeList>
                <Export>246</Export>
                <Total>747</Total>
            </ItemLeadTimeList>
            <ProgramList>
                <Export>4</Export>
                <Total>13</Total>
            </ProgramList>
            <ItemPriceList>
                <Export>329</Export>
                <Total>401</Total>
            </ItemPriceList>
            <ItemAMLSplitList>
                <Export>358</Export>
                <Total>467</Total>
            </ItemAMLSplitList>
            <RFXStandardTermList>
                <Export>3</Export>
                <Total>4</Total>
            </RFXStandardTermList>
            <ItemAttributeList>
                <Export>8</Export>
                <Total>560</Total>
            </ItemAttributeList>
            <ItemPlantList>
                <Export>10</Export>
```

```
                <Total>172</Total>
            </ItemPlantList>
            <ItemProgramList>
                <Export>11</Export>
                <Total>173</Total>
            </ItemProgramList>
            <RFXItemSupplierList>
                <Export>3</Export>
                <Total>4</Total>
            </RFXItemSupplierList>
            <RFXCustomTermList>
                <Export>15</Export>
                <Total>28</Total>
            </RFXCustomTermList>
            <RFXList>
                <Export>3</Export>
                <Total>4</Total>
            </RFXList>
            <PlantList>
                <Export>1</Export>
                <Total>23</Total>
            </PlantList>
            <ItemList>
                <Export>16</Export>
                <Total>420</Total>
            </ItemList>
            <BomList>
                <Export>5</Export>
                <Total>337</Total>
            </BomList>
            <RFXItemList>
                <Export>3</Export>
                <Total>4</Total>
            </RFXItemList>
            <BomSplitList>
                <Export>0</Export>
                <Total>0</Total>
            </BomSplitList>
        </ExtractStatistics>
    .
    .
</Summary>
```

Export BOM Hierarchy Web Service

Use the export BOM hierarchy web service to retrieve costing level changes to BOMs used for product sourcing.

The export BOM hierarchy web service includes changes to top-level BOMs, assemblies, sub-assemblies, and costing levels. The export BOM hierarchy web service also includes information about prices, AML splits, BOM splits, and total cost to show you the BOM structure after costing levels are automatically set.

The export BOM hierarchy RESTful web service enables clients to retrieve all changes to a BOM hierarchy in the product sourcing database for a specific BOM ID and plant ID.

The export BOM hierarchy web service downloads active and inactive data.

The web service results can be downloaded in JavaScript Object Notation (JSON) or XML. The default format is JSON. To download content in JSON format, the request can optionally include the following header: `Content-Type:application/json`. To download content in XML format, include the following header in your request: `Content-Type:application/xml`.

Configuring Authentication for the Export BOM Hierarchy Web Service

The export BOM hierarchy web service requires client authentication.

Prerequisites

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

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

Context

The export pricing updates web service clients must send HTTP Basic Authentication credentials to the SAP Ariba server. The web service is also secured by the server-side authentication and encryption provided by HTTPS. You configure the value for the Basic Authentication password on SAP Ariba **Integration Toolkit Security** page.

Procedure

1. In SAP Ariba Administrator, select **Integration Manager** > **Integration Toolkit Security**.
2. In the **Select the Authentication Method** field, select **Shared Secret**.
3. Enter the value for the password in the **Integration Password** and **Confirm Integration Password** fields.
4. Click **Save**.

Next Steps

Provide the password to the client. The client must send the site name and this password as Basic Authentication credentials in an HTTP Authorization header.

Export BOM Hierarchy Web Service Request

HTTP Method

GET

Authentication

The client must use HTTP Basic Authentication and send the following credentials in an HTTP Authorization header, base64 encoded:

```
Basic <base64 encoded myAribaSiteName:password>
```

Where:

- *myAribaSiteName* is your SAP 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.
- *password* matches the password value configured on the SAP Ariba **Integration Toolkit Security** page.

URL

To request all changes and additions to pricing data within a specific data type in a specified time period:

```
https://mySAPAribaSourcingDomain/dms/extract/BOMHierarchy?
realm=mySAPAribaSiteName&itemid=ItemId&plantid=PlantId
```

Export pricing updates web service query parameters:

- *myAribaSourcingDomain* is the domain you see in your browser's address window when you are signed in to SAP Ariba Strategic Sourcing Suite, such as `myCompany.sourcing.ariba.com`.
- The *realm* where the data is exported from is mandatory.
- *myAribaSiteName* is your SAP Ariba site name for the SAP Ariba Strategic Sourcing Suite solution. If you do not know your site name, you can get it from your SAP Ariba representative.
- The *ItemId* is the BOM number of the BOM hiearchy you want to export.
- The *PlantId* is the ID for the plant producing the part.

BOMItemList

The `BOMHierarchy` element contains a `BOMItemList` element in the export BOM hierarchy request. The `BOMItemList` element contains a list of information about the items in the BOM hierarchy.

BomHierarchyItem

The `BOMItemList` element contains a `BomHierarchyItem` element in the export BOM hierarchy request. The `BomHierarchyItem` element contains information about the items included in the BOM hierarchy.

Each `BomHierarchyItem` element contains the following child elements:

`Level`	Identifies the item level in the BOM.
`TopItemId`	Identifies the ID of the top item in the BOM.
`ParentItemId`	Item ID of the BOM for the item's parent material.
`ItemId`	Identifies the item.
`ItemName`	The item's name.
`PartTypeId`	User-defined part type ID, such as `Assembly` or `Strategic`.
`OwnerName`	The name of the material owner.
`ItemGroup`	SAP Ariba **Item Group** field. Interchangeable or replacement parts have the same ItemGroup value.
`QuoteLevel`	Identifies whether the costing level has been set for the item.
`Quantity`	Quantity of the item.
`TotalCost`	The total cost of the item in the BOM.
`Category`	The category of the item.
`Project`	User-defined project where this part is assigned.
`UOM`	Unit of Measurement used in the external system.
`ChangeNo`	SAP Ariba **Change Number** field.
`PlantId`	ID for the plant producing the part.
`PlantName`	SAP name for the plant producing the part.

`SupplierId`	SAP supplier ID of the supplier providing the item.
`SupplierName`	Name of the supplier providing the item.
`MfrPartNumber`	Part number for this item assigned by the supplier.
`LeadTime`	The amount of time the supplier needs to provide the material.
`EstimatedLeadTime`	The amount of time the buyer anticipates the supplier needs to provide the item.
`Prices`	The pricing information for the item.

Prices

The `BomHierarchyItem` element contains a `Prices` element in the export BOM hierarchy request. The `Prices` element contains information about pricing for the items included in the BOM hierarchy.

Each `Prices` element contains the following child elements:

`ValidFromDate`	Start date of the time range for this item's terms in the format *`YYYY`* - *`MM`* - *`DD`*.
`ValidToDate`	End date of the time range for this item's terms in the format *`YYYY`* - *`MM`* - *`DD`*.
`BomSplit`	Split information about the BOM item for a given time period
`AmlSplit`	Contains split information about an AML item for a given time period.
`EstimatedPrice`	Estimated pricing information for the item.
`ContractedPrice`	Contracted pricing information for the item. Contracted prices are updated after a user accepts the price in a simple RFx event or creates a PIR from a PIR scenario in SAP Ariba Sourcing.

Export Cost Group Web Service

Use the export cost group web service to retrieve cost group information for product sourcing. The export cost group web service includes values from line items with cost groups.

Configuring Authentication for the Export Cost Group Web Service [page 150]

Export Cost Group Document IDs Web Service Request [page 151]

Export Cost Group Line Items and Terms Web Service Request [page 152]

Export Cost Group Web Service Examples [page 153]

Configuring Authentication for the Export Cost Group Web Service

The export cost group web service requires client authentication.

Prerequisites

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

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

Context

The export cost group web service client must send HTTP Basic Authentication credentials to the SAP Ariba server. The web service is also secured by the server-side authentication and encryption provided by HTTPS. You configure the value for the Basic Authentication password on SAP Ariba **Integration Toolkit Security** page.

Procedure

1. In SAP Ariba Administrator, select **Integration Manager** > **Integration Toolkit Security**.
2. In the **Select the Authentication Method** field, select **Shared Secret**.
3. Enter the value for the password in the **Integration Password** and **Confirm Integration Password** fields.
4. Click **Save**.

Next Steps

Provide the password to the client. The client must send the site name and this password as Basic Authentication credentials in an HTTP Authorization header.

Export Cost Group Document IDs Web Service Request

HTTP Method

GET

Authentication

The client must use HTTP Basic Authentication and send the following credentials in an HTTP Authorization header, base64 encoded:

```
Basic <base64 encoded myAribaSiteName:password>
```

Where:

- *myAribaSiteName* is your SAP 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.
- *password* matches the password value configured on the SAP Ariba **Integration Toolkit Security** page.

URL

To request all changes and additions to cost group data within a specific data type in a specified time period:

```
https://mySAPAribaSourcingDomain/dms/cleansheet/v1/costgroups/
extract&realm=mySAPAribaSiteName
```

Export cost group document IDs web service query parameters:

- *myAribaSourcingDomain* is the domain you see in your browser's address window when you are signed in to SAP Ariba Strategic Sourcing Suite, such as `myCompany.sourcing.ariba.com`.
- The *realm* where the data is exported from is mandatory.
- *myAribaSiteName* is your SAP Ariba site name for the SAP Ariba Strategic Sourcing Suite solution. If you do not know your site name, you can get it from your SAP Ariba representative.

CostGroupExtractionMetaInfos

The `costGroupExtractionMetaInfos` element contains the `lineItems` element in the export cost group document IDs web service request.

Each `lineItems` element contains the following child elements:

`lineItemName`	Identifies the name of the line item.
`itemId`	Identifies the item ID.
`plantId`	Identifies the plant ID in the line item.
`supplierId`	Identifies the supplier ID in the line item.
`costGroupIds`	Identifies the unique document ID of the cost group document in the line item.

Export Cost Group Line Items and Terms Web Service Request

HTTP Method

GET

Authentication

The client must use HTTP Basic Authentication and send the following credentials in an HTTP Authorization header, base64 encoded:

```
Basic <base64 encoded myAribaSiteName:password>
```

Where:

- *myAribaSiteName* is your SAP 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.
- *password* matches the password value configured on the SAP Ariba **Integration Toolkit Security** page.

URL

To request all changes and additions to cost group data within a specific data type in a specified time period:

```
https://mySAPAribaSourcingDomain/dms/cleansheet/v1/costgroups/
extractMeta&realm=mySAPAribaSiteName
```

Export cost group line items and terms web service query parameters:

- *myAribaSourcingDomain* is the domain you see in your browser's address window when you are signed in to SAP Ariba Strategic Sourcing Suite, such as `myCompany.sourcing.ariba.com`.
- The *realm* where the data is exported from is mandatory.
- *myAribaSiteName* is your SAP Ariba site name for the SAP Ariba Strategic Sourcing Suite solution. If you do not know your site name, you can get it from your SAP Ariba representative.

CostGroupDocument

The `costGroupDocument` element contains cost group line item information from events and includes the following child elements:

- `costGroupName`
- `totalCost`
- `currency`
- `costGroupLineList`

Each `costGroupLineList` element contains the following child elements:

`lineName`	Identifies the name of the line item.
`terms`	Identifies line item terms. For example, Price, Quantity, and Extended Price.

Export Cost Group Web Service Examples

Export Cost Group Sheet IDs Example

Request: https://*mySAPAribaSourcingDomain*/dms/*cleansheet*/v1/*costgroups*/extractMeta&realm=*mySAPAribaSiteName*

```
{
               "costGroupExtractionMetaInfos": [{
                "lineItems": [{
                    "lineItemName": "LKMG23434",
                     "itemId": "14222202915",
                      "plantId": null,
                      "supplierId": "sid812",
                      "costGroupIds": ["Doc14211"]
                   }, {
                  "lineItemName": "LKMG23434",
                  "itemId": "14222202915",
                  "plantId": null,
                  "supplierId": "sid515",
                  "costGroupIds": ["Doc14222"]
                  }, {
                   "lineItemName": "LKMG23434",
                   "itemId": "14222202915",
                   "plantId": null,
```

```
                    "supplierId": "sid508",
                    "costGroupIds": ["Doc14214"]
                }]
        }]
        }
```

Export All Line Items and Terms Inside a Specific Cost Group Example

Request: https://*mySAPAribaSourcingDomain*/dms/*cleansheet*/v1/*costgroups*/extractData?costGroupId=*cost group ID*&realm=*mySAPAribaSiteName*

```
{
  "costGroupDocument": {
   "costGroupName": "Raw material costs",
   "totalCost": "133456.0",
   "currency": "USD",
   "costGroupLineList": [
     {
       "lineName": "768",
       "terms": [
         {
           "PRICE": {
             "fieldId": "PRICE",
             "valueType": "Money",
             "value": {
               "moneyValue": {
                 "amount": 66728,
                 "currency": "USD"
               },
               "supplierValue": {
                 "amount": 66728,
                 "currency": "USD"
               }
             }
           }
         },
         {
           "QUANTITY": {
             "fieldId": "QUANTITY",
             "valueType": "Quantity",
             "value": {
               "quantityValue": {
                 "amount": 1,
                 "unitOfMeasureName": "each",
                 "unitOfMeasureCode": "EA",
                 "periodQuantity": false
               }
             }
           }
         },
         {
           "EXTENDEDPRICE": {
             "fieldId": "EXTENDEDPRICE",
             "valueType": "Money",
             "value": {
               "moneyValue": {
                 "amount": 66728,
                 "currency": "USD"
               },
               "supplierValue": {
                 "amount": 66728,
                 "currency": "USD"
               }
```

```
            }
          }
        },
        {
          "DISCOUNTAMT": {
            "fieldId": "DISCOUNTAMT",
            "valueType": "Money",
            "value": {
              "moneyValue": {
                "amount": 89,
                "currency": "USD"
              },
              "supplierValue": {
                "amount": 89,
                "currency": "USD"
              }
            }
          }
        },
        {
          "INDEXAMT": {
            "fieldId": "INDEXAMT",
            "valueType": "Money",
            "value": {
              "moneyValue": {
                "amount": 90,
                "currency": "USD"
              },
              "supplierValue": {
                "amount": 90,
                "currency": "USD"
              }
            }
          }
        },
        {
          "INDEXNAME": {
            "fieldId": "INDEXNAME",
            "valueType": "Text",
            "value": {
              "simpleValue": "jhkjnjknkj"
            }
          }
        }
      ]
    },
    {
      "lineName": "65789",
      "terms": [
        {
          "PRICE": {
            "fieldId": "PRICE",
            "valueType": "Money",
            "value": {
              "moneyValue": {
                "amount": 66728,
                "currency": "USD"
              },
              "supplierValue": {
                "amount": 66728,
                "currency": "USD"
              }
            }
          }
        },
        {
          "QUANTITY": {
            "fieldId": "QUANTITY",
```

```
            "valueType": "Quantity",
            "value": {
              "quantityValue": {
                "amount": 1,
                "unitOfMeasureName": "each",
                "unitOfMeasureCode": "EA",
                "periodQuantity": false
              }
            }
          }
        },
        {
          "EXTENDEDPRICE": {
            "fieldId": "EXTENDEDPRICE",
            "valueType": "Money",
            "value": {
              "moneyValue": {
                "amount": 66728,
                "currency": "USD"
              },
              "supplierValue": {
                "amount": 66728,
                "currency": "USD"
              }
            }
          }
        },
        {
          "DISCOUNTAMT": {
            "fieldId": "DISCOUNTAMT",
            "valueType": "Money",
            "value": {
              "moneyValue": {
                "amount": 768,
                "currency": "USD"
              },
              "supplierValue": {
                "amount": 768,
                "currency": "USD"
              }
            }
          }
        },
        {
          "INDEXAMT": {
            "fieldId": "INDEXAMT",
            "valueType": "Money",
            "value": {
              "moneyValue": {
                "amount": 8,
                "currency": "USD"
              },
              "supplierValue": {
                "amount": 8,
                "currency": "USD"
              }
            }
          }
        },
        {
          "INDEXNAME": {
            "fieldId": "INDEXNAME",
            "valueType": "Text",
            "value": {
              "simpleValue": "gfhj"
            }
          }
        }
```

```
        ]
      }
    ]
  }
}
```

Bill of Materials and Materials Management

Bill of Materials (BOM)

SAP Ariba Strategic Sourcing Suite enables you to integrate your Product Lifecycle Management (PLM) systems and load product bill of materials (BOM) information into SAP Ariba. After you integrate BOM information into SAP Ariba, you can manage your hierarchical BOMs, materials, ownership, contract manufacturer, and pricing over time directly on the **Product Sourcing** dashboard in SAP Ariba Strategic Sourcing Suite.

BOMs are formally structured lists of components that make up a product or assembly. The list contains the object number of each component, together with the quantity and unit of measure. Depending on the industry, BOMs may also be referred to as recipes or lists of ingredients. BOMs contain important basic data for numerous areas of a company, for example:

- MRP
- Material provisions for production
- Product costing
- Plant maintenance
- BOM Level
- Vendors who supply the part
- Quantity
- Customer Part ID
- Manufacturer Part ID
- Vendor Part ID

BOMs include the following functionality:

- BOM Creation and BOM hierarchical view - After a BOM has been created in SAP Ariba Strategic Sourcing Suite through an external system integration an administrator can sign in to SAP Ariba, view the BOM, and verify the information and hierarchy.
- BOM management
  - Assign BOMs to owners - After a materials manager user assigns an owner, SAP Ariba emails the part owner indicating they have a new part assigned to them.
  - Assign BOMs to programs

    > ⓘ Note
    >
    > The ability to assign BOMs to programs is not available when the `BOM_V2_ENABLED` parameter is enabled. Instead, refer to BOM and Material Tags [page 200]. The `BOM_V2_ENABLED` parameter

> is enabled by default for all sites deployed after January 2020. For more information about the `BOM_V2_ENABLED` parameter, see Supported Bill of Materials (BOM) Types [page 160].

  - Activate BOMs
- Ability to change BOMs
  - Create placeholder parts
- BOM compare
- BOM security - By default, only certain users are able to see the BOM after it has been created. As a result, customer administrator users may assign which users or groups of users can view the BOM or edit the BOM attributes.
- Additional parts
- BOM search - Materials manager, and materials viewer users can search for all the BOMs for which a part belongs.
- BOM status - Materials manager, and materials viewer users can filter BOMs based on their status of active or inactive.

Multilevel BOMs

Nesting and creating subassemblies within your BOM enables you to isolate specific subassemblies, so you can share only the design data that you need your partner or contract manufacturer to see. If your partner is helping you with a design, you might choose to share just the subassembly that relates to their work, protecting the intellectual property associated with the other aspects of the product design.

A multilevel BOM is also helpful when you have complex and highly configurable products. Updating a subassembly within a larger product assembly can be done quickly if you have structured your BOM as multileveled, since a change order only needs to address a subset of the product. The subassembly can be revised and used in multiple higher level assemblies as necessary. The higher level assemblies only need to be revised as far up the product structure tree as form fit and function rules dictate.

Buyers with the **Materials Manager** group permission can assign contract manufacturers and programs at any level in a BOM. BOM child levels inherit contract manufacturers and program values from their parent level, unless values are explicitly assigned at the child level.

Alternative Parts and Placeholder Parts

You can specify alternative materials and parts for materials. Alternative items can be used to specify different split percentages for roll-up calculations.

Placeholder parts can be used to enable the quoting process. Placeholder parts can be used to add pricing details when that information is not in the BOM. Placeholder parts can be materials that are not yet defined or additional costs or fees that the sourcing manager wants to include in the total cost of the BOM. When new materials are added to the BOM for which there has already been a placeholder part specified, the material owner can copy the information from the placeholder part to the replacement part.

BOM Roll-Ups and Costing Levels

By default, SAP Ariba rolls-up cost at the leaf or part level. You can set the costing level for an assembly to **Yes**, meaning that the price for the assembly is used for the BOM roll-up. Setting the costing level for the assembly to **Yes** also sets the costing level for all the sub-assemblies and parts beneath it in the BOM to **No**.

You can view the BOM hierarchy from the quote level and up using the **BOM buy view** filter. The **BOM buy view** filter displays the BOM buy view one level at a time and enables buyers to expand the complete BOM view.

Ability to Automatically Set BOM Costing Levels

SAP Ariba automatically sets the costing level at the assembly level if you receive a quote, or if pricing exists, either estimated or contracted. This also sets the costing level for assemblies in all existing BOMs to **Yes** and all assemblies and parts under it to **No** in all the BOMs in which the assembly exists. You can manually override the automatic settings and SAP Ariba will not change manual updates to the costing level.

SAP Ariba can also automatically set BOM costing levels based on part type. You can choose which part types you want SAP Ariba to automatically set as costing levels. After BOMs are updated or uploaded, a regularly scheduled task processes the BOM and automatically sets the costing levels for the specified part types to **Yes**. After the scheduled task sets costing levels, the cost is rolled up for the item but not any child items below it. If it is not set, the cost is rolled up for the item and any child items below it. When automatic BOM costing level functionality is enabled, the product sourcing action tiles do not include non-costed child items.

> **Note**
>
> When automatic BOM costing level functionality is enabled, the ability to manually set costing levels for items and assemblies is disabled.
>
> Contact SAP Ariba Support to enable this feature and configure the part types you want to automatically set as costing levels.

Prerequisites

BOMs must be loaded through an integration, before they can be managed in SAP Ariba Strategic Sourcing Suite. BOM management functionality is only available for SAP Ariba Strategic Sourcing Suite buyers.

Restrictions

You can add additional parts to BOMs, however you cannot modify existing BOM structures.

SAP Ariba can only automatically set BOM costing levels based on part types.

Supported Bill of Materials (BOM) Types

SAP Ariba enables you to import multiple types of BOMs, such as group BOMs, normal BOMs, multi-BOMs, or variant BOMs from your external system. You can create sourcing events based on these BOMs to get accurate

pricing information from the suppliers. The uniqueness of the BOMs is defined by **BOM number**, **Alternate BOM number** and, **Usage**.

In addition to standard material BOMs, SAP Ariba supports the following types of BOMs:

BOM Type	Definition
Group BOM	In a group BOM, the materials added in one plant are available in all plants. That means, if you add a material in one plant, the system validates if that material is added to all the plants the BOM is assigned to.
Normal BOM	A normal BOM is similar to a Group BOM, but the plant is assigned while creating the BOM. The materials added to a plant aren't copied to all plants, because the BOM number varies for BOMs assigned to different plants.
Variant BOM	A variant BOM is similar to an existing BOM, but differs in one or more material components. Variant BOMs can also differ in the quantities of the materials. In addition to the common materials, a variant can also have materials that differ from the existing BOM. For example: If a BOM with **BOM number** ,**BOM 1** contains **MAT1** and **MAT2** as materials. A variant BOM with **BOM number**, **BOM 2**can have **MAT1** and **MAT3** as materials. In this example, **MAT1** is common between the two BOMs.
Multi-BOM	A multi-BOM contains materials that are used to manufacture alternative products, where one material is used in both the alternatives. Multi-BOMs or multiple BOMs usually have common materials that differ in quantity along with other materials required for the alternative product. For example: A **Product A** can be manufactured by the following alternative methods: • **Method 1**: Using **100** of **MAT1** and **10** of **MAT2** • **Method 2**: Using **50** of **MAT1** and **10** of **MAT2**

Prerequisites

Support for group, normal, variant, and multi-BOMs requires that SAP Ariba Customer Support enables the `BOM_V2_ENABLED` parameter.

> **Note**
>
> By default, the `BOM_V2_ENABLED` parameter is enabled for all sites deployed after January 2020. If the `BOM_V2_ENABLED` parameter is not enabled, SAP Ariba product sourcing functionality only supports standard material BOMs.

In order to import group, normal, variant, and multi-BOMs, your system must be integrated with the latest version of SAP Integration Suite, managed gateway for spend management and SAP Business Network. You can't import group, normal, variant, and multi-BOMs with older versions of SAP Integration Suite, managed gateway for spend management and SAP Business Network. You can use the cloud integration features to automatically upload variant BOMs to SAP Ariba Strategic Sourcing Suite.

Restrictions

Enabling the `BOM_V2_ENABLED` parameter is an irreversible action.

> **Note**
>
> The `BOM_V2_ENABLED` parameter is enabled by default for all sites deployed after January 2020.

After the `BOM_V2_ENABLED` parameter is enabled, sites must use SAP Integration Suite, managed gateway for spend management and SAP Business Network (CIG) for integration.

Enabling the `BOM_V2_ENABLED` parameter has the following impact on product sourcing functionality in your site:

- Disables integration with product sourcing using SAP Ariba cloud integration 9.0 and below.
- Disables the ability to assign plants in the user interface.
- Disables the ability to assign programs in the user interface.
  - Program functionality was replaced with the ability to use BOM and material tags.
- Creates duplicates of all BOM documents integrated using SAP Ariba cloud integration 9.0 and below.

BOM List

Default Plant

Buyers who do not use plant or only have one plant can use a default plant to store prices in the pricing database without having to select a contract manufacturer (plant). Default plant can be enabled to appear on the user interface.

In sites integrated with SAP ERP, when you create an item the default plant is added to the assembly when the data comes from SAP ERP. The default plant is used for every assembly.

When the default plant is configured not to show on the user interface:

- It is still present in the system and is added to the assembly when the data is sent from SAP ERP.
- The **Contract MFR**, **Contract MFR ID**, **Assign Contract MFR** fields, and the **BOMs missing contract MFRs** tile are not shown.

Prerequisites

You must be a member of the **Materials Manager** group to see the default plant on the user interface.

Restrictions

Default plant is enabled with the initial realm setup. It cannot be set after the realm is enabled.

There is only one default plant and it cannot be changed. The default plant name is **DEFAULT PLANT** and the default plant ID is **9999**.

The name of the default plant cannot be changed.

Placeholder Parts

Placeholder parts enable buyers to initiate sourcing activities and collect prices even if the details of a part are not finalized.

When the actual parts are available, you can replace the placeholder parts with the actual parts and copy the price information from the placeholder part to the actual part. When you replace placeholder parts with actual parts, you can also create purchasing info records for the actual parts. You can search for placeholder parts and edit and delete placeholder parts.

When you replace placeholder parts with actual parts, the price is copied only for suppliers that are part of the actual parts. This is, if there are two suppliers for which the price information is available in the placeholder part and the actual part has only one of those two suppliers, price is copied only for the supplier that is present in both the placeholder part and the actual part.

Prerequisites

Ensure that the following site parameters are enabled:

- `BOM_V2_ENABLED`
- `DEPLOYMENT_MODE.BOM_SUPPORTED`

> **Note**
>
> These parameters are set to TRUE for sites that are configured to use BOM data; if these are not enabled for your site, contact SAP Ariba Support.

Restrictions

- You cannot add a placeholder part to a part in a BOM; you can create placeholder parts within a BOM assembly or subassembly.
- When you replace a placeholder part with an actual part, you can copy the price only for suppliers and plants that are present in both the placeholder part and the actual part.
- When you edit a placeholder part, you cannot change the supplier information.

Related Information

Creating a Placeholder Part [page 165]
Searching for Placeholder Parts [page 165]
Editing a Placeholder Part [page 167]
Replacing a Placeholder Part [page 168]
Deleting a Placeholder Part [page 169]

Searching for Placeholder Parts

You can search for the placeholder parts from the **Advanced Search** page.

Context

To search for placeholder parts:

Procedure

1. From the product sourcing dashboard, click **Advanced Search**.

   The **Advanced Search** page appears.
2. From the **Filters**, click the **Part type** field.

   The **Choose Values for Part type** overlay appears.
3. From the **Choose Values for Part type**, select **PLACEHOLDER_PART** and click OK.

   You can select multiple part types.
4. Optionally, specify other filtering criteria that you want to apply for the search.
5. Click **Apply**.

   The search results appear on the page.

Related Information

Placeholder Parts [page 163]
Creating a Placeholder Part [page 165]

Creating a Placeholder Part

You can create placeholder parts in a bill of materials.

Prerequisites

Ensure that the following site parameters are enabled:

- `BOM_V2_ENABLED`

- `DEPLOYMENT_MODE.BOM_SUPPORTED`

> **Note**
>
> These parameters are set to TRUE for sites that are configured to use BOM data; if these are not enabled for your site, contact SAP Ariba Support.

Context

You can create placeholder parts as leaf nodes in a BOM assembly or subassembly. You cannot add a placeholder part below a leaf node in a BOM.

To create a placeholder part:

Procedure

1. From the product sourcing dashboad, go the **View BOM Details** page of the BOM in which you want to create the placeholder part.
2. From **View BOM Details** page, click the assembly to which you want to add the placeholder part, and click **Create Placeholder item**.

   The **Create Placeholder item** overlay appears.
3. Specify the following details:

Item name	Name of the placeholder item. This is a mandatory field.
Description	Description for the placeholder item. This is an optional field.
Quantity	Quantity of the placeholder item. This is a mandatory field.
Unit of measure	The unit of measure in which quantity is specified for the item. This is a drop-down list from which you can choose a value. This is a mandatory field.
Owner	The owner of the item. This is a drop-down list from which you can choose a value. This is a mandatory field.
Suppliers	Suppliers for the item. You can choose one or more suppliers from the supplier list. This is a mandatory field.

4. Click **Create**.

   A placeholder part is created.

Editing a Placeholder Part

You can edit a placeholder part to modify its properties.

Prerequisites

Ensure that the following site parameters are enabled:

- `BOM_V2_ENABLED`
- `DEPLOYMENT_MODE.BOM_SUPPORTED`

> **Note**
>
> These parameters are set to TRUE for sites that are configured to use BOM data; if these are not enabled for your site, contact SAP Ariba Support.

Context

You can edit a placeholder part to modify details such as name, description, quantity, unit of measure, and owner. You cannot modify the supplier details.

To edit a placeholder part:

Procedure

1. From **View BOM Details** page, click the placeholder part that you want to edit and click **Edit Placeholder item**.

   The **Edit Placeholder item** overlay appears.
2. Modify the following details as required:

Item name	Name of the placeholder item. This is a mandatory field.
Description	Description for the placeholder item. This is an optional field.
Quantity	Quantity of the placeholder item. This is a mandatory field.
Unit of measure	The unit of measure in which quantity is specified for the item. This is a drop-down list from which you can choose a value. This is a mandatory field.
Owner	The owner of the item. This is a drop-down list from which you can choose a value. This is a mandatory field.

> **Note**
>
> You cannot edit the supplier details.

3. Click **Save**.

   The placeholder part details are updated.

Replacing a Placeholder Part

You can replace a placeholder part with an actual part.

Prerequisites

Ensure that the following site parameters are enabled:

- `BOM_V2_ENABLED`
- `DEPLOYMENT_MODE.BOM_SUPPORTED`

> **Note**
>
> These parameters are set to TRUE for sites that are configured to use BOM data; if these are not enabled for your site, contact SAP Ariba Support.

Context

If you have placeholder parts in a BOM assembly, you can replace those parts with actual parts when the actual item details are available. Before you can replace a placeholder part with an actual part, you must first update the BOM to include the actual part at the same hierarchy level as that of the placeholder part.

When you replace a placeholder part with an actual part, you can copy the price information from the placeholder part to the actual part. However, you can copy the price information only for suppliers and plants that are available on both the placeholder part and actual part.

For example, if a placeholder part has prices from three suppliers and if the actual part has only two of those suppliers, the price from the third supplier that is not in the actual part is not copied. The same logic applies for the plants, too.

To replace a placeholder part with an actual part:

Procedure

1. Go to the **View BOM Details** page of the BOM that contains the placeholder part that you want to replace with an actual part.
2. Click the placeholder part that you want to replace with an actual part, and click **Replace Placeholder item** from the popup menu that appears.

The **Replace Placeholder item** overlay appears. It contains the list of actual parts available at the same hierarchy level as the placeholder part.

3. From the list of actual parts that are available for replacing the placeholder part with, select the item with which you want to replace the placeholder part and click **Replace**.

> ⓘ Note
>
> If the placeholder part that you want to replace has price information for one or more suppliers in the actual part, a **Create PIR** toggle appears at the bottom of the **Replace Placeholder item** overlay. If you enable the toggle, a purchase info record for the item is created.

The placeholder part is replaced with the selected actual part.

Deleting a Placeholder Part

You can delete a placeholder part from a BOM.

Prerequisites

Ensure that the following site parameters are enabled:

- `BOM_V2_ENABLED`
- `DEPLOYMENT_MODE.BOM_SUPPORTED`

> ⓘ Note
>
> These parameters are set to TRUE for sites that are configured to use BOM data; if these are not enabled for your site, contact SAP Ariba Support.

Context

To delete a placeholder part:

Procedure

1. From **View BOM Details** page, click the placeholder part that you want to delete and click **Delete Placeholder item**.

   The **Delete Placeholder item** confirmation message appears.

2. Click **Delete** to confirm deletion. Click **Cancel** to cancel the delete action.

   If you click **Delete**, the placeholder part is deleted; if you click **Cancel**, the delete action is cancelled.

Placeholder Plant

Placeholder plant enables buyers to import BOM data into product sourcing even if the BOM does not have a plant assigned to it.

If you upload to product sourcing BOM data that does not have an SAP plant ID assigned and if the `DEPLOYMENT_MODE.PLANT_ASSIGNMENT_REQUIRED` parameter for the site is set to false, product sourcing assigns a placeholder plant, `PLACEHOLDER_PLANT`, to the BOM. Previously, plant assignment was mandatory and BOM import without a valid SAP plant ID failed. Support for placeholder plants enables buyers to initiate sourcing activities and to collect prices even if a plant is not assigned to the BOM.

- Ensure that the following site parameters are enabled:

  > **Note**
  >
  > These parameters are set to TRUE for sites that are configured to use BOM data.

  - `BOM_V2_ENABLED`

    > **Note**
    >
    > The `BOM_V2_ENABLED` parameter is enabled by default for all sites deployed after January 2020. For more information about the `BOM_V2_ENABLED` parameter, see Supported Bill of Materials (BOM) Types [page 160].

  - `DEPLOYMENT_MODE.BOM_SUPPORTED`
- Ensure that the parameter `DEPLOYMENT_MODE.PLANT_ASSIGNMENT_REQUIRED` is set to FALSE.

  > **Note**
  >
  > If you are not sure whether this parameter is set to FALSE, or know that this parameter is set to TRUE, contact SAP Ariba Support to check and update the parameter configuration.

Ability to Copy Contracted Price from the Placeholder Plant to Actual Plants

Buyers can copy contracted prices collected using the placeholder plant to actual plants and create PIRs for the items based on the actual plants and the contracted price copied from the placeholder plant.

Items inherit the placeholder plant from the BOM; a BOM gets the placeholder plant assigned to it if it is imported without plant information. The placeholder plant assignment enables buyers to collect prices when the actual plant information is not available.

Buyer users who are members of the **Customer Administrator** group can copy the contracted prices of items from the placeholder plant to one or more plants when the actual plants are assigned.

When an item has the placeholder plant assigned to it, the status of the item in the **Replicate item prices to Plants** page appears as **Not Ready**.

You can update the plant information for the items by updating the BOM with the actual plants. If you are using the hybrid mode (`ENABLE_BOM_MATERIAL_HYBRID_MODE` = TRUE) you can also extend plants at the item level by updating the item master.

> **Note**
>
> When the hybrid mode is enabled, the plants assigned at the item level also show up along with the plants assigned through the BOM. Until the time the price, AML split, and lead time information are applied for all the plants including the plants extended through item master, the items listed as missing price, missing AML split, or missing lead time.

When the updated plant information is available in product sourcing, the status of the item in the **Replicate item prices to Plants** page changes to **Ready**. You can use the **Select a plant** option for such items to select one or more plants to which you want to copy the price from the placeholder plant.

For information about the workflow for copying contracted price from the placeholder plant to actual plants, see Workflow for Copying Contracted Price from the Placeholder Plant to Actual Plants [page 171].

Workflow for Copying Contracted Price from the Placeholder Plant to Actual Plants

The following steps show a typical scenario for copying contracted price from the placehodler plant to actual plants.

1. `DEPLOYMENT_MODE.PLANT_ASSIGNMENT_REQUIRED` is set to FALSE.
2. User uploads a BOM that does not have a plant assigned.
3. SAP Ariba Sourcing assigns the placeholder plant to the items in the BOM.
4. User collects prices for items through sourcing events.
5. Contracted price information gets updated based on the event responses.
6. Items that have contracted prices logged against the placeholder plant display the status as **Not Ready** on the **Replicate item prices to Plants** page.
7. User uploads the plant information by using either the item master update or the BOM update.
8. Status of the items for which the plant information is updated changes from **Not Ready** to **Ready**.
9. User selects plants for the items that are in the **Ready** status and submits the updates.
10. The status of the items changes from **Ready** to **Processing**, and then to **Success** when PIRs are created.

Related Information

Copying the Contracted Price from the Placeholder Plant to Actual Plants and Create PIRs [page 184]

Integration of Engineering Change Order (ECO)-Related Information

Product sourcing features of SAP Ariba Strategic Sourcing Suite support integration of engineering change orders (ECOs).

Support for engineering change order integration provides the following capabilities:

- Ability to search for materials and BOMs based on their change numbers.
- Ability to view BOM change details and item change details from the dashboard.
- Ability to view BOM changes associated with a change number.
- Support for ChangeNumber and RevisionLevel in ItemMaster.
- Enhancements to BOM CSV files to:
  - import change master fields.
  - associate change number with BOM and revision level with material.
- Ability to view change number and revision level from the sourcing workflows.
- Ability to collect estimated price and contracted price for the latest revision level of an item.
- Ability to compare prices of an item across revision levels.

The change master data contains change number, change valid from date, change reason, and change description. You can import the change master data as part of item master import and BOM CSV import.

You can also associate pricing data to a revision level by including the change number and revision level in the CSV file for price import.

The ItemMaster CSV file contains the following fields to support change master data:

- ChangeNumber
- RevisionLevel

You can add `ChangeNumber` and `RevisionLevel` to the sourcing templates and can view the change number and revision level for items from the sourcing workflows such as creating sourcing projects or simple RFx events.

> **Note**
>
> To be able to view change number and revision level from the sourcing workflows, you must use a sourcing template that contains `ChangeNumber` and `RevisionLevel`terms. If the template does not contain these terms, add these to the template before you use the template for a sourcing project or event.

The BOM CSV template contains the following fields, along with ChangeNumber, as part of standard fields:

- ChangeValidFromDate
- ChangeReason
- ChangeDescription

Viewing BOM Changes Associated with a Change Number

You can view the BOM changes associated with a change number.

Context

From the Change Logs page, you can view the changes, such as additions, deletions, modifications, that are are made to a BOM through a change number. The changes are color-coded for ease of viewing.

Procedure

1. From the product sourcing user interface, click a BOM number and select **View BOM change details** from the popup menu.
2. From the BOM change details popup that appears, click the change number to view the change details.

   The Change Logs page displays the BOM changes associated with the selected change number. The changes are color-coded as additions, deletions, and modifications.

   The Change Logs page also provides you a drop-down list, **Change Number**, from which you can select other change numbers linked to the selected BOM and view associated changes.

Assigning Contract Manufacturers

Prerequisites

You must be a member of the **Materials Manager** group to assign contract manufacturers to BOMs.

Learn about Product Sourcing Personas and User Groups [page 14].

Procedure

1. Click the **Product Sourcing** dashboard tab.
2. Do one of the following to choose the BOMs you want to assign contract manufacturers:
   - Check a BOM directly on the dashboard tab.
   - Click a BOM name, choose **View BOM details**, and check a BOM.
   - Click the **BOMs missing contract MFRs** action tile to view a list of BOMs without contract manufacturers and check a BOM.
3. Click **Assign** > **Contract MFR**.

4. In the popup, choose the manufacturer you want to assign to the BOM and click **Assign**.

Results

The **BOMs missing contract MFRs** action tile updates when you refresh the dashboard.

Assigning Programs

Prerequisites

You must be a member of the **Materials Manager** group to assign programs to BOMs.

Learn about Product Sourcing Personas and User Groups [page 14].

> ⓘ Note
>
> The ability to assign programs to BOMs is not available when the `BOM_V2_ENABLED` parameter is enabled. Instead, refer to BOM and Material Tags [page 200]. The `BOM_V2_ENABLED` parameter is enabled by default for all sites deployed after January 2020. For more information about the `BOM_V2_ENABLED` parameter, see Supported Bill of Materials (BOM) Types [page 160].

Procedure

1. Click the **Product Sourcing** dashboard tab.
2. Do one of the following to select the BOMs you want to assign programs:
   - Check the BOMs directly on the dashboard data table.
   - Click the **BOMs missing programs** action tile. Check the box next to the BOM ID in the filtered list of BOMs missing programs.
   - Click the BOM ID or BOM name, choose **View BOM details**, and check the BOMs.
3. Click **Assign** > **Program**.
4. In the popup, choose the program you want to assign to the BOM and click **Assign**.

Results

The **BOMs missing programs** action tile is updated when you refresh the dashboard.

Assigning Owners to Materials

Prerequisites

You must be a member of both the **Materials Manager** and **Materials Viewer** groups to assign owners to materials.

Learn about Product Sourcing Personas and User Groups [page 14].

Procedure

1. Click the **Product Sourcing** dashboard tab.
2. Do one of the following:
    - Check the BOMs directly on the dashboard data table.
    - Click the **Materials without owners** action tile. Check the box next to the Item ID in the filtered list of materials without owners.
    - Click the BOM ID or BOM name, choose **View material details**, and check the materials.
3. Click **Assign owner**.
4. Do one of the following in the popup:
    - Choose the owner from the list.
    - Directly enter the owner name or part of the name in the **Owner** field. A list of owners that matches the text you entered automatically appears. Choose the owner from the list.

Results

The **Materials without owners** action tile is updated when you refresh the dashboard. Owners can now view the material details.

Exporting BOM Details to Microsoft Excel

You can export BOM details to Microsoft Excel. You can assign BOM splits and other information directly in the Excel spreadsheet and import the content back in to SAP Ariba.

Prerequisites

You must be a member of the **Materials Manager** or **Materials Viewer** group to view and export BOM details.

Learn about Product Sourcing Personas and User Groups [page 14].

Context

Exports from the **BOM Details** page process in the background. When SAP Ariba completes processing the export request, you receive a message on the **Product Sourcing** dashboard. You can download the BOM hierarchy and BOM split data export directly from the message.

You can limit the number of items exported to Microsoft Excel when exporting BOMs, BOM splits, and materials. If you want to limit the number of items exported to Microsoft Excel, contact SAP Ariba Support to configure the following site parameters:

- `EXCEL.MAX_RECORDS_FOR_BOM_EXPORT`
- `EXCEL.MAX_RECORDS_FOR_BOM_SPLIT_EXPORT`
- `EXCEL.MAX_RECORDS_FOR_MATERIAL_EXPORT`
- `EXCEL.MAX_RECORDS_FOR_BOM_COMPARISON_EXPORT`

Procedure

1. Click the **Product Sourcing** dashboard tab.
2. Search for or find the BOM that you want to export to Microsoft Excel.
3. Click the BOM ID or BOM name.
4. Click **View BOM details**.

   The **BOM Details** page displays.
5. Check the BOM level that you want to export to Microsoft Excel.
6. Click **Export to Excel**.

Results

SAP Ariba displays a confirmation message at the top of the screen indicating that the export request was successfully submitted.

After SAP Ariba processes the export request, the notification bell icon () on the **Product Sourcing** dashboard indicates that a new notification is available ().

Click the notification bell icon () and click **Download** to download the corresponding BOM hierarchy or BOM split data export Excel file.

Next Steps

To import the Excel, click **BOM split** and then **Import from Excel**.

Comparing BOMs

The bill of materials (BOM) comparison shows the differences between two BOMs or the same BOM. The differences such as new, changed, or deleted are color coded.

Prerequisites

Contact SAP Ariba Support to enable the `ENABLE_ITEM_VERSIONING` site parameter on the Ariba Administrator **Product Sourcing Manager** > **Site Parameter** page.

> Note
>
> **`ENABLE_ITEM_VERSIONING`**
>
> This parameter enables item versioning to store the history of BOM changes. The BOM history is used in BOM comparisons.

To view BOMs, you must be a member of the **Materials Manager** or **Materials Viewer** group.

Context

You can compare BOMs based on any combination of plants and dates.

The comparison shows the structure and pricing information for any past date including today.

Item information such as ownership, price, splits, and costing level are stored as history. If there are multiple updates during the day, the last update for the day is stored as history, and used when comparing BOMs for past dates.

Procedure

1. Go to any BOM list and do one of the following:
   - Select two BOMs to compare.
   - To compare the same BOM, click a **BOM ID** or **BOM name** and then click **View BOM details**. You can either select the BOM or go to the next step.
2. Click **Compare 2 BOMs** or **Compare** depending on which choice you made in the previous step. You will only see one of these buttons on the page.
3. In the **Compare BOM** popup, you can search by contract manufacturer (plant), date, or both:
   a. You can choose a plant from the available plants for the BOM.

      If you don't choose a plant, the comparison shows only structural changes such as additions and deletions.
   b. You can choose specific dates if you are comparing the same BOM.

4. Click **Compare**.

Results

A comparison page with the results of the search appears.

> **Note**
>
> To choose the comparison information that appears in the results, click the icon in the top right of the **Compare BOM** table. Select and deselect your choices for comparison. The column headers in the results don't change based on your choices. Only the information that is compared changes.
>
> To choose the columns that are displayed in the comparison page, click the icon at the top right of the **Compare BOM** table.
>
> The default **Show BOM differences to level:** is 2. To see more levels, click the dropdown in the top right of the **Compare BOM** table.
>
> To go back to the **Compare BOM** popup, click the back arrow < in the top left of the **Compare BOM** table.

The BOM differences are colored coded:

- Green is new.
- Red is deleted.
- Purple is changed.

You can filter the comparison results by:

- Rows with items marked as not required or missing
- Rows with added items
- Rows with changes to user-defined item compare configurations.

Downloading BOM Comparison to Microsoft Excel

You can download your BOM comparison results to Microsoft Excel. In addition to the comparison data, the Excel includes additional worksheets with information about the BOMs.

Prerequisites

To view and download BOMs, you must be a member of the **Materials Manager** or **Materials Viewer** group.

Context

The Excel workbook includes six different worksheet tabs:

- **Information** provides information for understanding the content of the data in the worksheets.
- **BOM Review** shows the BOM properties and the values for the BOMs compared.
- **BOM Comparison** shows the export of the detailed BOM comparison.
- **BOM Comparison Summary** shows the number of additions, deletions, and changes in the BOM comparison.
- **Base BOM** shows the BOM hierarchy rollup information, if there is any, for the base BOM.
- **Compared to BOM** shows the BOM hierarchy rollup information, if there is any, for the BOM compared to the base BOM.

A comparison difference for changed cells is included in the Excel.

The BOM comparison download is processed in the background. When SAP Ariba completes processing the export request, you receive a notification message on the **Compare BOM** page, and the **Product Sourcing** dashboard. You can download the BOM comparison data directly from the message.

The BOM comparison Excel is read-only, and can't be uploaded into the system.

The maximum number of items you can export in the BOM comparison is 20,000. If you want to limit the number of items exported to Microsoft Excel for BOM comparison, contact SAP Ariba Support to configure the `EXCEL.MAX_RECORDS_FOR_BOM_COMPARISON_EXPORT` site parameter.

Procedure

1. Click the **Product Sourcing** dashboard tab.
2. Go to any BOM list and do one of the following:
   - Select two BOMs to compare.
   - To compare the same BOM, click a **BOM ID** or **BOM name** and then click **View BOM details**. You can either select the BOM or go to the next step.
3. Click **Compare 2 BOMs** or **Compare** depending on which choice you made in the previous step. You will only see one of these buttons on the page.
4. Make your comparison choices in the **Compare BOM** popup.
5. In the **Compare BOM** popup, do one of the following:
   - Click the **Download to Excel** (⭳) icon.
   - Click the **Compare** button to see the comparison results before downloading the data to Excel. On the **Compare BOM** page, click the **Download to Excel** icon.

Results

SAP Ariba displays a confirmation message at the top of the screen saying the download request was successfully submitted.

After SAP Ariba processes the download request, the **Notifications** ( ) icon has a red circle with a number to indicate a new message is available.

Click the notifications icon and click **Download** to download the BOM comparison Excel file.

> Note
>
> In the **Notifications** list, the download is still being processed in the background if the status is **Created**. Once the download is complete, you see a **Success** message.
>
> Contact SAP Ariba support if the status of your download in the Notifications list is **Failure**.
>
> The rows in the notifications list are blue to indicate they have not been read. Once you click the row, it becomes white to indicate it has been read.

Setting Costing Levels

Prerequisites

You must be a member of the **Materials Manager** group to set costing levels in BOMs.

Context

You can manually set the costing level for items and assemblies. When you set the costing level, the cost is rolled up for the item but not any child items below it. If it is not set, the cost is rolled up for the item and any child items below it.

Your organization might set the costing level for an assembly that has a price which already includes the costs of child items.

Procedure

1. Click the **Product Sourcing** dashboard tab.
2. On the BOM dashboard, click the BOM name for the materials you want to a set costing level.
3. Click **Set Costing Level**.
   SAP Ariba displays the **Set Costing Level** confirmation screen.
4. Click **Set**.

Next Steps

To unset costing levels, click the BOM name for the material and click **Unset Costing Level**.

Copying or Replacing Pricing

Prerequisites

To copy or replace pricing, you must be a member of the **Materials Manager** or **Materials Viewer** group. You must also be the owner of the part.

Context

When BOMs are supported, and plant assignment is not required, a placeholder plant is assigned to all BOMs that do not have a plant or contract manufacturer. The placeholder plant holds your data such as estimated price, lead time, and so on. You can copy or replace pricing from the placeholder plant to the actual plant or contract manufacturer when the actual plant is assigned.

Copy Pricing copies the pricing and RFx terms from the source plant to the target plant.

Replace Pricing replaces the pricing and RFx terms in the target plant with the source plant values. The source plant is unassigned after the replacement to the target plant.

Procedure

1. Click the **Product Sourcing** dashboard tab.
2. Click the BOM ID or BOM name and choose **Copy or replace pricing**.
3. In the popup, click **Copy Pricing** or **Replace Pricing**.
4. Select the **From:** plant where you want the pricing to be copied or replaced from.
5. Select the **To:** plant where you want the pricing to be updated.
6. If you chose **Copy Pricing**, check **Copy splits with pricing** if you want to copy the splits from the placeholder plant to the actual plant.
7. Click **Copy**.

Results

The pricing from the placeholder plant is now in the actual plant or contract manufacturer. After the next regularly scheduled task runs, you can see the actual plant or contract manufacturer with the pricing.

Completing Missing BOM Splits

Prerequisites

Users must be a member of the **Materials Manager** or **Materials Viewer** group to enter split percentages for materials they own.

Context

There are two types of splits:

- Approved Manufacturer List (AML) - splits across every item and contract manufacturer
- BOM - splits between item groups in a particular BOM

The action tiles that are available to you depend on the dashboard tabs that are available to you and your user permissions.

Procedure

1. Click the **Product Sourcing** dashboard tab.
2. Do one of the following:
   - Click a BOM ID or BOM name and choose **View BOM details**. Then click **BOM split** and double-click the split percentage field to make it editable.
   - Click the **BOM item groups without 100% split** action tile. Select the BOM IDs for which you want to enter split percentages and click **View / Edit BOM split info**.

   You can also click **Export to Excel** to add your split percentages in a spreadsheet and then click **Import from Excel** to upload your updates.

   SAP Ariba displays the **Enter BOM Split** page.
3. Do one of the following to enter BOM split percentages:
   - Enter split percentages in the **Split %** field.
   - Click **Export to Excel** to export the BOM split detail information to an Excel spreadsheet. You can enter split percentages directly in the Excel spreadsheet. After you make your updates, click **Import from Excel** to import the Excel spreadsheet.
   - Enter a split percentage in a **Split %** field and then click the copy icon in the **Split %** textbox. The **Split %** value you entered is copied to the remaining periods. A message is displayed showing the copy status.

   > **Note**
   >
   > You must be the owner of the material to add split percentages.
4. If you selected multiple BOMs, you can click **Selected BOMs** to navigate to the other BOMs you selected and enter split percentages.

Getting Quotes for BOMs

Prerequisites

You must be a member of the **Materials Manager** or **Materials Viewer** group to view and select materials for quote requests.

Learn about Product Sourcing Personas and User Groups [page 14].

To create quote requests, 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. Click the **Product Sourcing** dashboard tab.
2. Complete one of the following actions to display parent BOMs:
   - Click one of the BOM action tiles. The data table automatically filters to display BOMs according to the action tile you selected.
   - Enter a BOM name or ID in the search box and click the search icon.
   - Click **Advanced Search**. On the **Advanced Search** page, enter one or more BOM IDs, separated by spaces.
3. Select the parent BOM for which you want to collect supplier quotes and click **BOM Quote**.

   > ⓘ Note
   >
   > You can also select non parent BOMs or assembly items and select **Material quote** to get quotes for the selected items.

4. On the **Get Quote** popup screen, complete the following fields:
   - **Use Guided Sourcing**, **Sourcing Project**, and **Simple RFX**.
   - **Material - Plant Assignment**: Choose a plant assignment. The choices are **Use currently assigned/ selected plants per material (default)** and **Use only specific plants**.

> **Note**
>
> If you choose **Use only specific plants**, a dropdown menu appears and allows you select specific plants.

- **External System**: Select an external system.

5. On the **Volume Integration** popup screen, select a response for **Includes Volumes in your Quotes?**.

   If you select **Yes**, complete the **Volume Type** and **Across all BOMs?** fields.

6. Click **Continue**.
   If you chose to create a guided sourcing project, the **Create guided sourcing project** page displays. If you chose to create a sourcing project, the **Create Sourcing Project** page displays. If you chose to create a simple RFX event, the **Create Quote Request** page displays.

> **Note**
>
> BOM quote events that are created from product sourcing automatically inherit the leaf-level quantities that you configured for the BOM.

Copying the Contracted Price from the Placeholder Plant to Actual Plants and Create PIRs

Prerequisites

- You must be a member of the **Customer Administrator** group.
- You must have completed the plant assignment for items for which you want to copy the prices.

Context

When the parameter `DEPLOYMENT_MODE.PLANT_ASSIGNMENT_REQUIRED` is set to FALSE, you can upload materials that do not have a plant assigned to them. In such cases, SAP Ariba Sourcing assigns the placeholder plant to the items that do not have a plant assigned. You can collect prices against the placeholder plant and later, assign the actual plants and copy the contracted price information from the placeholder plant to the actual plants.

> **Note**
>
> If you are not sure whether this parameter is set to FALSE, or know that this parameter is set to TRUE, contact SAP Ariba Support to check and update the parameter configuration.

Procedure

1. From SAP Ariba Sourcing, click **Administration** > **Product Sourcing Manager**.

   The **Product Sourcing Manager** page appears.
2. Click **Replicate item prices to Plants**.

   The **Replicate item prices to Plants** page appears.
3. Filter the list based on the status **Ready**.

   > ⓘ Note
   >
   > If items for which you want to copy the prices are showing the status as **Not Ready**, ensure that the actual plants are assigned to those items before you attempt to copy the prices.
4. For each of the items for which you want to copy the price, click the **Select a plant** option from the **Plant** column.

   A popup appears with a list of plants available for the item.
5. From the popup list, select the plants for which you want to copy the prices.
6. After you complete the plant selection, click **Submit**.

   > ⓘ Note
   >
   > If there are multiple plants and if you do not select all the available options, after you click submit, you can view only the plants you selected. The plants you did not select are not displayed after the prices are copied to the selected plants.

   The status of the items for which you selected the plants change to **Processing**; after the PIRs are created, the status changes to **Success**. If the PIR creation encounters any error, the status changes to **Failure**.

Viewing the Total Cost Projection for a BOM

The **Total cost trend** tab of the **BOM details** page provides a graphical representation of the total projected cost trend for the BOM.

Prerequisites

Ensure that the following site parameters are enabled:

- `BOM_V2_ENABLED`

  > ⓘ Note
  >
  > The `BOM_V2_ENABLED` parameter is enabled by default for all sites deployed after January 2020. For more information about the `BOM_V2_ENABLED` parameter, see Supported Bill of Materials (BOM) Types [page 160].

- `DEPLOYMENT_MODE.BOM_SUPPORTED`

> **Note**
>
> These parameters are set to TRUE for sites that are configured to use BOM data; if these are not enabled for your site, contact SAP Ariba Support.

Context

Buyers using the product sourcing features of SAP Ariba Strategic Sourcing Suite can view the graphical representation of the total projected cost trend for the BOM in the **Total cost trend** tab of the **BOM details** page.

Procedure

1. Sign in to the Ariba Strategic Sourcing Suite.
2. Click **Product Sourcing** to open the **Product Sourcing** tab.

   The **Product Sourcing** tab appears.
3. Click the BOM number for the BOM that you want to view the projected cost and select **View BOM details** from the pop-up menu.

   The BOM details page for the selected BOM appears.
4. From the BOM details page for the selected BOM, click **Total cost trend**.

   The **Total cost trend** tab provides a graphical representation of the projected cost for the selected BOM.

   > **Note**
   >
   > The number of months for which the total cost trend is displayed is specified by configuring the **COST_ROLLUP.NUMBER_OF_MONTHS_TO_CALCULATE_COST** parameter. The default value is 2. If you want to modify this setting, contact SAP Ariba Support to configure this parameter per your requirement.
5. If you want to download the total cost trend graph, select the file format to download by clicking any of the following buttons on the upper-right-hand corner of the graph view:
   - **Download as PNG** to download the graph as an image (.png) file.
   - **Download as PDF** to download the graph as a document (.pdf) file.

Material List

Default 100% AML Split for Parts with One AML Supplier

Parts with only one Approved Manufacturer List (AML) supplier are automatically allocated 100% for their AML splits.

When this feature is enabled:

- The **Materials with missing AML splits** action tile shows items with an overall split that is less than or more than 100%.
  For example, an item with a 70% AML split for Supplier A, and a 30% split for Supplier B, is removed. A new AML supplier, Supplier C, is added. The system automatically assigns a 100% AML split to Supplier C. If Supplier A (70% split) and Supplier B (30% split) are later added back, the item appears in the **Materials with missing AML splits** action tile. The AML splits must be manually fixed to equal 100%.
- If a new AML supplier is added to an item where there was previously only one AML supplier and this feature was not enabled, the AML split stays empty and requires a manually entered split.
- A newly added plant is automatically assigned a 100% AML split when there is one AML supplier for an item across multiple plants.
- If a plant changes, and is later added back to the same item, the AML split is added back with the plant.
  For example, an item with 18 months of AML splits for Plant A is changed to Plant B in the current month. The next month, it changes from Plant B back to Plant A. The **Materials with missing AML splits** action tile shows the 17 months for Plant A. The missing month for Plant B is not included.

This feature runs on a scheduled task that updates every two hours.

Prerequisites

Automatic AML split allocation must be enabled on your site by SAP Ariba.

You must be a member of the **Materials Manager** or **Materials Viewer** group to enter split percentages for materials you own.

Restrictions

Once the AML split is assigned, it is not updated again if the following happens:

- The existing AML supplier is removed and a new AML supplier is added

- The AML split is manually removed for any month

Getting Quotes for Materials

You can select one or more materials from the product sourcing dashboard and create quote request for the materials.

Prerequisites

- You must be a member of the **Materials Manager** or **Materials Viewer** group to view and select materials for quote requests.
  Learn about Product Sourcing Personas and User Groups [page 14].
  To create quote requests, 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)
- If your site is integrated with an external system, such as SAP ERP, ensure that the scheduled task **ExternalSystemSync** .

> **Note**
>
> The scheduled task **ExternalSystemSync** configures the site parameters as described in the following table and populates the external system table with details of the external systems with which the site is integrated:

Site Parameter	When Only One External System Is Configured	When More than One External Systems Are Configured
`DEFAULT_EXTERNAL_SYSTEM`	External system name	Blank
`PIR_EXTERNAL_SYSTEM`	External system name	Blank
`ENABLE_MULTI_ERP_SUPPORT`	False	True

Context

When you create quote requests for materials, you can choose to create a simple RFX event, a sourcing project, or a guided sourcing event. If your site is integrated with external systems, you must select an external system while creating the quote request.

Procedure

1. Click the **Product Sourcing** dashboard tab.
2. Complete one of the following actions to display materials:
    - Click one of the materials action tiles. The data table automatically filters to display materials according to the action tile you selected.
    - Enter a material name or ID in the search box and click the search icon.
    - Click **Advanced Search**. On the **Advanced Search** page, enter one or more material IDs, separated by spaces.
3. Check the materials for which you want to get supplier quotes.
4. Click **Material quote** and then click one of the following options:
    - **Guided Sourcing**
    - **Sourcing Project**
    - **Simple RFX**
5. From the **Material - Plant Assignment** options, click **Select only specific plants** and select the plants based on which you want to receive the quotes.

    By default, the **Use currently assigned/selected plants per material (Default)** option is selected.
6. From the **External system** dropdown, select an external system.

    If the site has only one external system configured, by default, the external system is selected. If there are more than one external system configured for the site, the names of the available external systems are populated in the dropdown and you must select one external system to create a material quote request.

    If the list of materials for which you want to create the quote request contains materials from more than one external system, only those items that are present in the selected external system are included in the quote request.

    When you search for materials to add to a sourcing project, only those materials that are available in the external system that is specified in the sourcing project are displayed. If no external system is specified for the sourcing project, an error message appears to state that no external system is specified for the project and prompts you to edit the project to add an external system.

Results

The **Create Quote Request** page displays if you choose **Material Quote Using Simple RFX** and you can create a simple RFx event for materials. The **Create Sourcing Project** page displays if you choose **Material Quote Using Sourcing Project** and you can create a sourcing event for materials.

Completing Splits for Materials with Missing AML Splits

Prerequisites

Users must be a member of the **Materials Manager** or **Materials Viewer** group to enter split percentages for materials they own.

Learn about Product Sourcing Personas and User Groups [page 14].

Context

There are two types of splits:

- Approved Manufacturer List (AML) - splits across every item and contract manufacturer
- BOM - splits between item groups in a particular BOM

Procedure

1. Click the **Product Sourcing** dashboard tab.
2. Click the **Materials with missing AML splits** action tile.
   You can click **Export to Excel** to add your split percentages in a spreadsheet and then click **Import from Excel**.
3. Click the item ID for the material you want to edit.
4. Click **View / edit item info**.
   SAP Ariba displays the **Item Information** page.
5. Enter the split percentages in the **Split %** field.

> **Note**
>
> You must be the owner of the material to add split percentages.

Results

If you use the **Import from Excel** feature, the Excel file will be processed by a scheduled task that runs multiple times an hour. The import page contains an **Import requests** area with the following status information:

- A dropdown to select the time period for the status information (**Last 7 days**, **Last month**, **All**).
- A button to **Refresh** the status information.
- A status information table with the following columns:
  - **User ID**: ID of the user who submitted the data import.
  - **Type**: Type of data import.

- **File**: Name of the file submitted.
- **Start Date**: Time and date the data was submitted.
- **End Date**: Time and date the data import completed.
- **Elapsed Time**: Time elapsed between when the import is submitted and the import completion.
- **Status**: Status of the data import.

Creating Placeholder Parts

Placeholder parts model materials and their costs that are not yet available in a BOM.

Prerequisites

You must be a member of the **Materials Manager**, or **Materials Viewer** group and have capabilities to create sourcing projects.

Learn about Product Sourcing Personas and User Groups [page 14].

> **Note**
>
> This task includes steps for sites that have not configured the `BOM_V2_ENABLED` parameter. The `BOM_V2_ENABLED` parameter is enabled by default for all sites deployed after January 2020. For more information about the `BOM_V2_ENABLED` parameter, see Supported Bill of Materials (BOM) Types [page 160]. Refer to the Creating a Placeholder Part [page 165] topic if the `BOM_V2_ENABLED` parameter is enabled for your site.

Procedure

1. Click the **Product Sourcing** dashboard tab.
2. Do one of the following:
   - Click a materials tile.
   - Click the BOM ID or BOM name in the BOM list and choose **View BOM details**. Click the dropdown to expand the BOM. Click the top level or subassembly top level BOM name.
3. Click **Create Materials**.

   The **Create a new material** popup appears.
4. Enter information about the new material you want to create.

   The **Owner** field automatically populates with the current user.

   Click the (+) icon to add multiple suppliers.
5. Click **Create**.

Results

The new material is added to the top of the materials table or the materials under the assembly or subassembly, dependent on where you clicked **Create Material**.

Editing, Replacing, or Deleting Placeholder Parts

Placeholder parts are replaced by actual parts when the actual part arrives in a newer version of the BOM.

Prerequisites

You must be a member of the **Materials Manager**, or **Materials Viewer** group and have capabilities to create sourcing projects.

Learn about Product Sourcing Personas and User Groups [page 14].

Procedure

1. Click the **Product Sourcing** dashboard tab.
2. Click the BOM ID or BOM name and choose **View BOM details**.
3. Click the dropdown to expand the BOM.
4. Click the placeholder part you want to replace or delete.
5. Do one of the following:
   - Click **Edit Material**. In the popup, you can edit the material information. Click **Save**.

     > ⓘ Note
     >
     > To add or edit suppliers, delete the existing placeholder part and create a new one.
     >
     > **Edit Material** is available for placeholder parts only and is not available for parts from SAP ERP.

   - Click **Replace Material** and choose the replacement part from the list of parts in the popup.
     In the **Replace Material** popup, you can search for a placeholder material within a BOM. The search options are item ID, item name, BOM description, and owner. Search by item ID is the default.
     Check **Copy all contracted pricing to estimated pricing for selected material** to copy the contracted price to the estimated price or if there is no contracted price, copy the estimated price, splits, and estimated lead time from the placeholder part to the new part.
     Click **Replace**.

     > ⓘ Note
     >
     > The replacement part must have the same supplier and plant as the placeholder part.
     >
     > **Replace Material** is available for placeholder parts only and is not available for parts from SAP ERP.

- Click **Delete Material** in the popup and then **Delete**.

Results

A success message is shown at the top of the page.

An audit log entry is created for replaced materials that shows where the pricing, splits, and lead time came from.

Adding Estimated Lead Time Values to Materials

You can find materials that have no lead time and enter an estimated lead time for them in the parts database.

Prerequisites

You must be a member of the **Materials Manager**, or **Materials Viewer** group to add an estimated lead time.

Learn about Product Sourcing Personas and User Groups [page 14].

Procedure

1. Click the **Product Sourcing** dashboard tab.
2. Do one of the following:
   - Click the **Materials with missing lead time** tile.

     > ⓘ Note
     >
     > The **Materials with missing lead time** tile shows the materials that do not have a value for estimated lead time or lead time.

   - Click any materials tile.
3. Click the item ID for the material you want to edit.
4. Click **View / edit item info**.
   SAP Ariba displays the **Item Information** page.
5. Enter a value in the **Estimated lead time (in days)** field.

   You can export and import the estimated lead time values using the **Export to Excel** and **Import from Excel** buttons.

   You can also enter the estimated lead time value when creating a new material.

   You can enter any present or future date of your choice in the Date field if you are updating the lead time by using the BOM CSV file. The lead time value becomes effective from the exact date you specify.

Results

If you use the **Import from Excel** feature, the Excel file will be processed by a scheduled task that runs multiple times an hour. The import page contains an **Import requests** area with the following status information:

- A dropdown to select the time period for the status information (**Last 7 days**, **Last month**, **All**).
- A button to **Refresh** the status information.
- A status information table with the following columns:
  - **User ID**: ID of the user who submitted the data import.
  - **Type**: Type of data import.
  - **File**: Name of the file submitted.
  - **Start Date**: Time and date the data was submitted.
  - **End Date**: Time and date the data import completed.
  - **Elapsed Time**: Time elapsed between when the import is submitted and the import completion.
  - **Status**: Status of the data import.

Material 360° View

The material 360° view in the **View item 360** page shows the material details, such as sourcing events, contracts, PIR activity, AML suppliers, and a price trend graph.

The material 360° view in the **View item 360** page shows the following sections:

- **Activity**
  - **Sourcing activity**
  - **PIR activity**
  - **Contract information**
- **Cost Group**
- **Price by Revision**
- **Pricing / Splits**
- **Audit Log**

You can customize the material 360° view and hide content, such as the **Sourcing activity**, **PIR activity**, and **Contract information** tables in the **Activity** section. You can also choose to hide the **Activity**, **Pricing / Splits**, **Cost Group**, and **Audit Log** sections.

To customize the material 360° view, contact SAP Ariba Support to configure the following site parameters:

- `ITEM_360_WIDGETS.ENABLE_RFX_INFO`
- `ITEM_360_WIDGETS.ENABLE_PIR_INFO`
- `ITEM_360_WIDGETS.ENABLE_CONTRACTS_INFO`
- `ITEM_360_SECTION.ENABLE_ACTIVITIES`
- `ITEM_360_SECTION.ENABLE_PRICE_AND_SPLITS`
- `ITEM_360_SECTION.ENABLE_AUDIT_LOG`
- `ITEM_360_SECTION.ENABLE_CLEAN_SHEETS`

Pricing Trend

The **Pricing trend** section in the **View item 360** page displays the prices accepted by various suppliers for a material in the form of a line graph. The line graph displays the estimated price and contracted price for each supplier. You can choose to view the pricing trends for the desired time period and for a specific plant.

Activity

The **Activity** section in the **View item 360** page displays three subsections, **Sourcing activity**, **PIR activity**, and **Contract information**.

- The **Sourcing activity** section provides information about the sourcing events associated with the material, such as the Event ID, date of the event, and the supplier who was awarded. You can navigate to the associated sourcing event directly from this section.
- The **PIR activity** section displays information about the purchase information records initiated by buyers for the material.
- The **Contract information** section displays information about the contracts initiated by buyers for the material. You can navigate to the associated contract workspace directly from this section.

Pricing / Splits

The **Pricing / Splits** section contains an item view table that provides information about the prices accepted by suppliers based on monthly splits for a specific material. Buyers can assign owners and request quotations for the material from suppliers. This section is used to navigate to the Item Information page, which contains detailed information about the material. You can also allocate the split percentage, in case of multiple suppliers in the Item Information page.

Audit Log

Audit logs related to actions on material items are captured and displayed in the **Audit Log** section of the **View item 360** page. Events related to the following actions are captured in the audit logs:

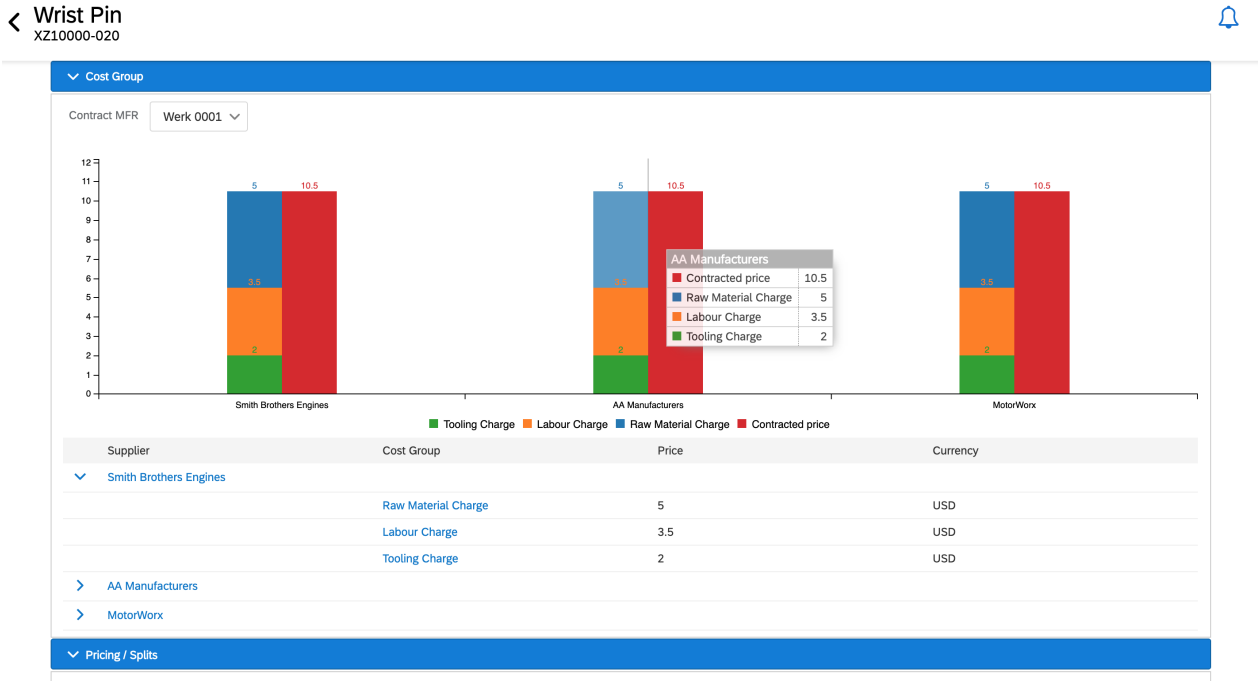
- assignment of owners
- changes to lead time
- changes to estimated lead time
- updates to contracted prices
- creation of purchasing information records (PIRs)

Users can also export the audit logs to Microsoft Excel.

Cost Group

The **Cost Group** section of the **View item 360** page displays the cost groups defined for the material. The **Cost Group** section is displayed only if the `ITEM_360_SECTION.ENABLE_CLEAN_SHEETS` site parameter is enabled. Contact SAP Ariba Support to enable the `ITEM_360_SECTION.ENABLE_CLEAN_SHEETS` parameter.

When buyers create Purchase Info Records (PIRs) from a price acceptance scenario in an event using cost group functionality, cost group information from the event is displayed in the **Cost Group** section.

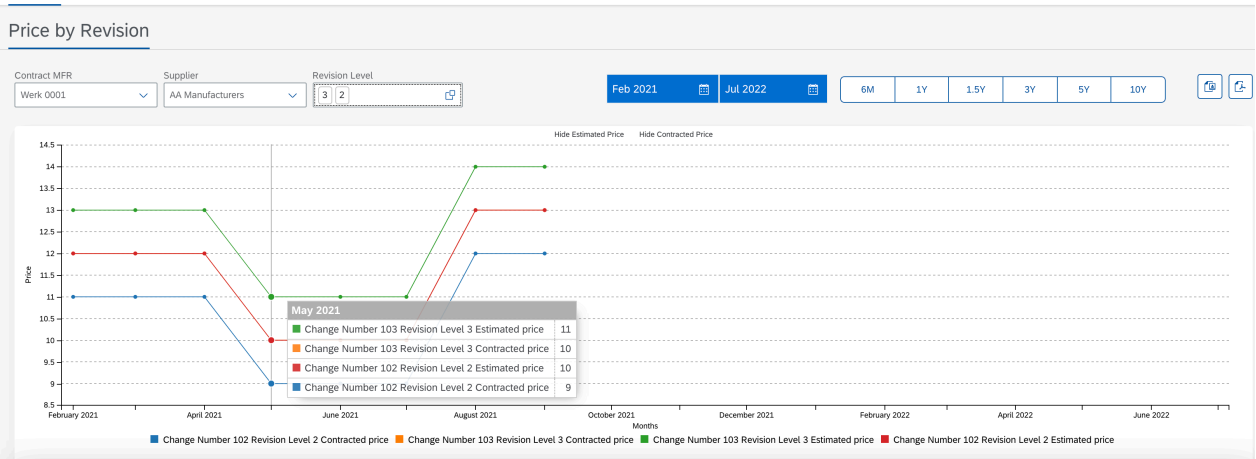


The section also shows a graphical representation of cost group and total cost values. The cost group values for each supplier display in a stacked bar graph next to the contracted price bar graph for reference. Buyers can hover over the bar graphs to view the values for each cost group and the contracted price.

Buyers can click values in the **Cost Group** column to view the supplier provided values for each of the cost terms.

Price by Revision

From the **View item 360** page, you can compare the estimated and contracted prices of an item across revision levels. By default, the page displays the estimated and contracted prices from a supplier for the selected item. You can add more revisions to the list and view a comparison of prices from the selected supplier for the specified item.



Seeing the Material 360° View

Prerequisites

You must be a member of the **Materials Manager**, or **Materials Viewer** group to see material information.

Learn about Product Sourcing Personas and User Groups [page 14].

Procedure

1. Click the **Product Sourcing** dashboard tab.
2. Find the material by doing one of the following:
   - Search
   - Click the **BOM ID** or **BOM name** in the BOM list
   - Click the **Item ID** or **Item name** in the material list
3. Click the material and choose **View item 360**.

   The **View item 360** page with the different sections, such as **Activity**, **Pricing / Splits**, **Price by Revision**, **Cost Group**, and so on appears.

> ### Note
>
> For viewing price by revision, select the supplier and the revision numbers for which you want to view the price information.

Update Estimated Pricing for Parts and Materials

SAP Ariba allows you to update the estimated pricing for parts without AML suppliers assigned to it. You can also update or enter the estimated pricing for materials with missing pricing.

Update Estimated Pricing for Parts with No AML Suppliers [page 198]

Updating Estimated Pricing for Parts and Materials [page 199]

Update Estimated Pricing for Parts with No AML Suppliers

If a supplier does not exist for an item, the default supplier can be chosen from the supplier list and the estimated price can be updated.

If a supplier already exists for a material, there is no change. Users see existing suppliers and default suppliers on the user interface everywhere suppliers are shown. Users can search materials by the default supplier name.

Prerequisites

You must be a member of the **Materials Manager**, or **Materials Viewer** group to add an estimated price to a part.

Learn about Product Sourcing Personas and User Groups [page 14].

You must be the material owner to add or update the estimated price.

Restrictions

There is only one default supplier and it cannot be changed. The default supplier name is **DEFAULT** and the supplier ID is **DEFAULT**.

The name of the default supplier cannot be changed.

Updating Estimated Pricing for Parts and Materials

You can update the estimated pricing for parts without AML suppliers assigned to it. You can also update or enter the estimated pricing for materials with missing pricing.

Prerequisites

Users must be a member of the **Materials Manager** or **Materials Viewer** group to add an estimated price to a part they own. You must be the material owner to edit or enter the estimated price.

Learn about Product Sourcing Personas and User Groups [page 14].

Context

You can enter, or update estimated pricing from the following action tiles on **Product Sourcing** dashboard:

- **Materials with owners**
- **Materials without owners**
- **Materials with missing prices**
- **Materials with missing AML splits**

Procedure

1. Click the **Product Sourcing** dashboard tab.
2. Click the **Materials with owners**, **Materials without owners**, **Materials with missing prices**, or **Materials with missing AML splits** action tile.
3. Click the item ID for the material you want to edit.
4. Click **View / edit item info**.
   SAP Ariba displays the **Item Information** page.
5. Do one of the following to enter estimated pricing:
   - In the materials list, enter the estimated price for the material in the textbox.
   - Click **Export to Excel** to export pricing information to an Excel spreadsheet. You can enter price for materials missing pricing. Additionally, you can edit the estimated pricing for materials with pricing information. After the updates, click **Import from Excel** to import the Excel spreadsheet.
   - Click the copy icon  in the estimated price textbox to copy the price to another estimated price textbox. A message is displayed showing the copy status.
6. To view material assignment information, click **Assignment Info**.
7. To view simple RFx event terms, click **RFx**.

Results

The updated pricing information is available in the user interface.

If you use the **Import from Excel** feature, the Excel file will be processed by a scheduled task that runs multiple times an hour. The import page contains an **Import requests** area with the following status information:

- A dropdown to select the time period for the status information (**Last 7 days**, **Last month**, **All**).
- A button to **Refresh** the status information.
- A status information table with the following columns:
  - **User ID**: ID of the user who submitted the data import.
  - **Type**: Type of data import.
  - **File**: Name of the file submitted.
  - **Start Date**: Time and date the data was submitted.
  - **End Date**: Time and date the data import completed.
  - **Elapsed Time**: Time elapsed between when the import is submitted and the import completion.
  - **Status**: Status of the data import.

BOM and Material Tags

You can add tags to the bills of materials (BOMs) and materials that you own and can also delete tags that you added. You can use the tags for searching and filtering BOMs and materials.

Tags for BOMs and materials can be added or deleted from the UI, or by using the tag management API for materials and bills of materials available on the SAP Ariba API portal , or a CSV file. You can use the legacy data import option to upload a CSV file in the specified format for adding tags to BOMs and materials. The tags are color-coded for ease of identification in the UI.

Viewing, Adding, or Deleting BOM Tags from the UI [page 200]

Viewing, Adding, or Deleting Material Tags [page 201]

Searching for BOMs or Materials by Using Tags [page 202]

Adding Tags to BOMs or Materials by Using a CSV File [page 203]

Adding BOM and Material Tag by Using the API [page 204]

Viewing, Adding, or Deleting BOM Tags from the UI

Prerequisites

For the BOM tagging to work, the following parameters need to be enabled:

- **Parameter**: `ENABLE_TAGGING_FROM_UI`
- **Parameter**: `BOM_V2_ENABLED`

> **Note**
>
> The `BOM_V2_ENABLED` parameter is enabled by default for all sites deployed after January 2020. For more information about the `BOM_V2_ENABLED` parameter, see Supported Bill of Materials (BOM) Types [page 160].

Context

You can add or delete tags to a selected BOM from the Product Sourcing landing page or BOM details page.

> **Note**
>
> You can add or delete tags only if you own the selected BOM.

Procedure

1. From the Product Sourcing landing page, locate the BOM for which you want to add or delete tags.
2. Do one of the following to add or delete tags to the BOM:
   - Click **View** in the **Tags** column for the selected BOM.
     The *search or create a new tag* text box appears.
   - Right-click the BOM number and click **View BOM Details** from the popup menu.
     The **View BOM details** page appears.
3. To add a tag to the BOM, enter the tag in the *search or create a new tag* text box. If there are tags that are already added to the BOM, the text box displays those tags. The autocomplete feature provides suggestions if there are already added tags that match the letters you enter.
4. To delete a tag associated with the BOM, click the **x** button next to the tag that you want to delete.

Viewing, Adding, or Deleting Material Tags

Prerequisites

For material tagging to work, the parameter `ENABLE_TAGGING_FROM_UI` must be enabled.

Context

You can add or delete tags to a selected material from the Product Sourcing landing page or the Item 360 page.

> **Note**
>
> You can add or delete tags only if you own the selected material.

Procedure

1. From the Product Sourcing landing page, locate the material for which you want to add or delete tags.
2. Do one of the following to add or delete tags to the material:
   - Click **View** in the **Tags** column for the selected material.
     The *Search or Create a tag* text box appears.
   - Right-click the material number and click **View item 360** from the popup menu.
     The **Item 360** page for the selected material appears.
3. To add a tag to the material enter the tag in the *search or create a new tag* text box. If there are tags that are already added to the material, the text box displays those tags. The autocomplete feature provides suggestions if there are already added tags that match the letters you enter.
4. To delete a tag associated with the material, click the **x** button next to the tag that you want to delete.

Searching for BOMs or Materials by Using Tags

Context

If there are BOMs or materials that have tags associated, you can use the tag names to search for the associated BOMs or materials.

Procedure

1. From the Product Sourcing landing page, click **Advanced Search**.

   The Advanced Search page appears.
2. Select whether you want to search for **BOM** or **Material**.
3. Locate the **Tags** field filter in the available list of filters and click the icon.

   The **Choose Values for Tags** page appears.

4. From the **Choose Values for Tags** page, select the tags based on which you want to search for BOM or material.
5. Click **Done**.

   The Advanced Search page lists the BOMs or materials that are associated with the selected tags.

Adding Tags to BOMs or Materials by Using a CSV File

Context

The legacy data import option enables you to add tags to BOMs and materials by using a CSV file.

To add tags to a BOM, the CSV file should contain four columns with the following headers:

- BOM_number
- Alternate_BOM_number
- Usage
- BOM_Tags

> **Note**
>
> A combination of BOM number, alternate BOM number, and usage information from the BOM data is used to uniquely identify a BOM.

For example:

BOM_number	Alternate_BOM_number	Usage	BOM_Tags
A1234	1234	1	Tag1
A1234	1234	1	Tag2

To add tags to a material, the CSV file should contain two columns with the following headers:

- Material ID
- Material Tags

For example:

Material ID	Material Tags
A1234	Tag1
A1234	Tag2

To add tags to a BOM or material by using a CSV file:

Procedure

1. Click **Import Data** from the **Product Sourcing** page.

   The **Import Data** page appears.
2. From the **Select Template** drop-down list under **Select the legacy data you want to load**, select one of the following:
   - **Item tags** to add material tags
   - **BOM tags** to add BOM tags
3. Under the **Select the legacy data file that you want to load**:
   - Click **Choose a file or drag it here** to browse and select the CSV file that contains the tag details.
   - Drag and drop the CSV file that contains the tag details to **Choose a file or drag it here**.
4. Click **Import** to upload the file.

Adding BOM and Material Tag by Using the API

You can use the Materials and BOMs tag management API to add tags to BOMs and materials. You can also use this API to view or delete tags associated with materials or BOMs. Tags can be used for searching and filtering BOMs and materials from the product sourcing UI.

The materials and BOMs tag management API is a REST API and supports the following methods:

- `GET`: returns a list of tags associated with the specified materials or BOMs.
- `POST`: adds tags to the specified materials or BOMs.
- `DELETE`: deletes tags associated with the specified materials or BOMs.

For information about how to add BOM and material tag by using the API, see the Materials and BOMs tag management API documentation.

Create Sourcing Projects and Events in Product Sourcing

Simple RFx Events for Materials

There may be times when you need to create simple events that do not require complex functionality. Simple RFx for materials events provide a quick way for you to add items, invite suppliers, and specify the time periods for which you want to capture pricing. Simple RFx for materials functionality is helpful for when you want to capture pricing information for products and items on an ongoing basis.

The sourcing event creation process requires multiple steps and may be too time consuming for buyers creating basic, simple events. Simple events also often do not utilize the full event functionality available in SAP Ariba Sourcing.

You can create simple RFx events for materials that do not require complex functionality. Simple RFx events for materials only require that you enter information on the **Create Quote Request** page. After simple RFx events for materials move to a **Pending Selection** state, you can accept pricing across items and suppliers. When you accept pricing information, SAP Ariba automatically calculates the award information and displays it on the **Award** tab.

Complex sourcing scenarios on SAP ECC integrated systems and part costing often require pricing conditions more complex than only cost terms, so simple RFx for materials supports cost terms that have time components to describe how these impact costs in the future.

The bidding steps for suppliers responding to simple RFx events for materials has also been simplified. Simple RFx events for materials enable suppliers to specify how long their quotes are valid for, SAP Ariba automatically expires their quotes and notifies the material owner.

Simple RFx events for materials offer you the following benefits:

- Ability to efficiently create simple RFx events in minutes.
- Ability to capture pricing information for products and items on an ongoing basis.
- A single, vertical scrolling, event creation page.
- SAP Ariba displays all user created simple RFx templates for you to choose from during the creation process.
- Minimal fields required to create simple RFx events:
  - **Title**
  - **Select Template**

Simple RFx events for materials offer suppliers the following benefits:

- Suppliers can skip the select lots step when all items are required.
- Suppliers can skip the bidder agreement step when the bidder agreement is not enabled.

Sourcing managers can create simple RFx events for multiple materials from the same supplier at the same time. When a simple RFx event for materials is created, SAP Ariba automatically identifies the last existing simple RFx event with the same materials and supplier. If an existing simple RFx event with the same materials and supplier exists, SAP Ariba automatically prepopulates the new event with the terms from the last existing event. Sourcing managers have the ability to override the system if they don't want to prepopulate terms. The following fields are automatically prepopulated in new simple RFx events:

- Incoterms
- Device
- Required level of Buffer Inventory
- Warranty period
- Project specification document reference number
- Master contract no
- Port of entry
- Payment terms

Simple RFx Events for Materials Content Limits

SAP Ariba Sourcing has limits for the number of content items. Standard-capacity and simple RFx for material events can contain up to 2000 total items. These limits are validated when you create and publish an event, or when you import content from Microsoft Excel, add to the content, or view the Summary page. If you attempt to add more than the content limit, SAP Ariba Sourcing displays an error message.

For more information about SAP Ariba Sourcing events and functionality, see Event Management Guide.

Enabling This Feature

This feature is disabled by default. To enable this feature, please have your Designated Support Contact log a service request. An SAP Ariba Customer Support representative will follow up to complete the request.

For information about how to configure this feature, see Sourcing Projects and Events Administration [page 256].

Prerequisites

Simple RFx for materials functionality is only available for SAP Ariba Strategic Sourcing Suite buyers. SAP Ariba Strategic Sourcing Suite buyers must have also enabled product sourcing functionality with BOM and Material Master integration. Simple RFx events for materials can only be initiated when buyers select parts in a BOM or the parts database and click **Material Quote** > **Material Quote Using Simple RFx**.

Simple RFx events for materials are only available for RFPs events.

Restrictions

The Simple RFx events for materials event type does not support the following functionality:

- Translations
- Multi-currency
- Grading and scoring
- Alternative bidding
- Matrix terms
- Custom offline responses
- Copying from a predecessor project
- Parallel timing
- Review time
- Start time
- Scheduling events. Simple RFx events for materials start when you click **Publish**.

Workflow for Simple RFx for Materials [page 207]

Working with Simple RFx Events [page 208]

Workflow for Simple RFx for Materials

The following workflow describes the simple RFx event for materials process.

1. A buyer configures a simple RFx event template.
2. The buyer clicks **Material quote** > **Material Quote Using Simple RFx** on the **Product Sourcing** dashboard.
3. SAP Ariba displays the **Create Quote Request** page.
4. SAP Ariba automatically identifies the last existing simple RFx event with the same materials and supplier. If an existing simple RFx event with the same materials and supplier exists, SAP Ariba automatically prepopulates the new event with the terms from the last existing event.
   Additionally, if you create a new event (guided sourcing event, sourcing project, or simple RFX event) using the same material quote and template used in the last existing event, SAP Ariba automatically prepopulates the new event with the terms from the last existing event. However, for custom terms only the following types are prepopulated:
   - **Text (Single line limited)**
   - **Whole Number**
   - **Decimal Number**
   - **Yes/No**
   - **Percentage**
   - **Quantity**
5. The buyer enters information as needed and clicks **Publish**.
6. SAP Ariba sends invitation emails to the invited suppliers.
7. Invited suppliers sign in and submit their responses.
8. After the simple RFx event for materials closes, the buyer chooses the suppliers and item combinations for which they want to accept supplier pricing.

9. The buyer clicks **Accept Pricing** on the **Content** tab of the Event Monitoring Interface. Optionally, buyers can use the **Import Accept Pricing Excel** file to choose pricing information.

Working with Simple RFx Events

Simple RFx Event Terms

You can edit simple RFx event terms in the Item Terms area. You can edit existing terms or create new terms in much the same way that you edit or create questions. If you change the name of a term, it is automatically changed in any formulas where it is used.

Terms have specialized functions including:

- Collecting participants' pricing information: Price or Extended Price, Index Percentage or Amount
- Collecting other information from participants: Shipping terms, or any other term that you define
- Containing owner defined information about the line item: Quantity, Index Name
- Displaying calculated information about line item: Total and Unit Cost, Savings or Earnings, Discount Amount and Percentage
- Containing cost information. The cost terms used to calculate total cost are specialized item terms

- Adding a matrix dimension to a term in SAP Ariba Sourcing

SAP Ariba Sourcing comes preloaded with the following terms:

Term	Description
Price	The amount that the participant receives for selling an individual item. This term is used in the TotalCost formula in the Total Cost term in the Total Cost Auction template. It is also a term that appears in reports, even if you change its name.
Quantity	The number of items (defined by the line item) that you want to buy. Like Price, this term is also used in the Total Cost Auction template and reports. When you add the standard **Quantity** term to simple RFx, a default quantity of 1 and the unit of measure (UOM) for the item are sent to the sourcing event for material quotes. This allows suppliers to see what UOM (each, gallon, and so on) they are making quotes for.
Extended Price	This term uses a formula that is the Price term times the Quantity term, or the total price of the line item. This term appears in reports.
Shipping Terms	A line of text describing the shipping terms. For example: COD.
Savings	In a reverse auction, Savings is the historical value of a term minus the current value; the total amount that you have saved.
Earnings	In a forward auction, Earnings is the actual value minus the historical value of a term.
Unit Cost	The amount that the buyer pays to purchase a single item. Unit Cost = Total Cost / Quantity.
Total Cost	In a transformation auction, participants' prices are transformed into your total cost using a transformation equation that you create with one or more cost terms. If you use the Total Cost Auction template, you can create new terms and specify whether they are adders, subtracters, multipliers, or % discount terms. When you do, they are automatically applied to this Total Cost term.

For more information about creating, editing, and monitoring SAP Ariba Sourcing events, see Event Management Guide.

Creating Simple RFx Events for Materials

Prerequisites

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)

Context

Buyers can access the **Create Quote Request** page from the **Product Sourcing** dashboard.

Keep the following in mind while you enter information on the **Create Quote Request** page:

- Do not use the following characters in other text fields, such as the **Title** field for events:
  `/ \ : * ? " < > |`
- Fields with an asterisk are required.

For additional information about project fields, see Simple RFx Event for Materials Fields [page 211].

Procedure

1. On the **Product Sourcing** dashboard, choose the parts and items for which you want to collect supplier quotes.
2. Click **Material quote** > **Material Quote Using Simple RFX** and click **Continue**.
3. On the **Create Quote Request** page, enter a title for your event.
4. Choose an event template in the **Template** dropdown menu.

   > **Note**
   >
   > The template only appears when **Capacity type for the event** is set to **Simple** and the template is published.

5. Choose the type of event you want to create from the **Event Type** down menu, either an RFI or RFP.
6. Click **Go**.
7. Complete the remaining fields as needed.
8. Click **Publish**.

Results

Publishing the event sends event invitations to the participants.

Next Steps

After your event is published, you can:

- Monitor the event.
- Surrogate bid for suppliers.
- Edit and republish the event.
- Return to the Home dashboard.
- Send and receive messages from suppliers and/or team members on the **Messages** and **Suppliers** tabs of the simple RFx event.
- Download supplier attachments for the event by choosing **Content** tab ▸ **Actions** ▸ **Download All Supplier Attachments**.
- View the **Download Pricing Comparison** Excel file to compare pricing submitted by the suppliers while the event is open.
- Accept pricing.

Simple RFx Event for Materials Fields

Field	Required	Description
Title	X	The title of the simple RFx event you are creating.
Template	X	The template you are using to create your simple RFx event. **Note** The template only appears when **Capacity type for the event** is set to Simple and the template is published.
Due date	X	The date and time that the simple RFx event closes to responses.
Send reminders to suppliers		Send event reminder messages to suppliers.
Collect quotes for	X	Specify the duration for which you want suppliers to submit quotes (months, quarters, or years). **Note** This field only appears when the Pricing Conditions feature is turned on.
Starting from	X	The date on which you want to begin collecting quotes. **Note** This field only appears when the Pricing Conditions feature is turned on.

Pricing Conditions in Simple RFx Events

Simple RFx for materials enables you to enter validity periods for pricing. This enables you to collect different prices during different validity periods. You can map validity periods on pricing conditions to their external SAP ECC systems. Event owners can specify pricing condition settings as part of the term's attribute definition. Event owners can set the validity periods. Note that the pricing condition feature is available only on sites that have SAP Ariba Strategic Sourcing Suite enabled.

You can export a Microsoft Excel file containing the pricing conditions for each validity period and item and supplier combination. To download the pricing comparison Microsoft Excel file, click **Download Pricing Comparison**.

Pricing conditions functionality has the following restrictions:

- Support for pricing conditions is limited to ERP integrated events.
- Validity periods are available on contracts and RFPs, but they are not available for auctions.
- Validity periods are only available on **Money** type terms.

Adding New Material Items

Prerequisites

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)

> ⚠ Limitations
>
> Only the content a participant is invited to participate in is visible to them. If a participant is not invited to participate in a particular section, that content is not displayed in an exported Microsoft Excel spreadsheet.

An **External System Configuration** with an active system must be configured and master data loaded, to see the **Add New Materials** button.

Context

Line items have these special characteristics:

- A line item is the smallest entity that participants compete on.
- A line item is an individual part or service that has an associated price.
- You can use line items to specify distinct products by their unique identifier, such as a supplier's part number or SKU.
- Line items do not have to be inside lots.
- A line item always has an associated quantity, for example, 50 items, 10 lbs., or 8 hours.
- You can specify line item terms whose values roll up to the lot level and show as a sum.

Line items can specify a quantity that you can split between participants when awarding, or during bidding, for some auction types. Correctly organizing your event into line items and lots is important for a successful auction.

Procedure

1. Click **Add New Material** in the **Material Items** section on the **Create Quote Request** page.
2. Enter search terms and click **Search**.
3. In the search results, click the checkboxes for the items you want to add.
4. Click **Add**.

   When a material is added, the approved manufacturer list (AML) suppliers are invited to the event for that item.

Adding New Terms

Prerequisites

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)

⚠ Limitations

Only the content a participant is invited to participate in is visible to them. If a participant is not invited to participate in a particular section, that content is not displayed in an exported Microsoft Excel spreadsheet.

Context

Specify the answer type. The default is a single line of text. However, with other answer types, such as date, you can:

- Accept only an answer of that type.
- Restrict the answer to a range.

These features allow you to ensure that suppliers provide appropriate answers and do not accidentally leave information out or answer in a confusing or irregular format.

The following table describes the answer types available:

Answer Type	Description	Size / Range
Text (single line limited)	The answer field accepts a single line of text (numerical and alphabetic characters); no carriage returns.	Size: 256 characters
Whole Number	A whole number, for example, 1, 20, 852.	Range: unlimited
Decimal Number	A decimal number, for example, 19.5, or 1.23. The default value is two decimal places.	Range: ten
Money	A decimal number plus currency symbol. The default value is two decimal places.	Range: +/- 10^18
Attachment	You use this to collect information from participants as file attachments uploaded from their computer. You can provide a default attachment, that participants can change. To provide an informational read-only attachment that participants can download but for which you do not want them to upload anything, use Add Attachment.	Max size: 100 MB
Percentage	For example: 33%, 88%, 500%. The default value is two decimal places.	Range: +/- 10^17

Procedure

1. Click **Add Term** in the **Material Items** section on the **Create Quote Request** page.
2. On the **Add Term** popup, open the **New Term** tab to define a new term.
3. On the **New Term** tab, enter the name of the cost or attachment term.
4. Configure the options for the new term.
    - Use **Team Access Control** on an attachment term to determine who can see the attachment.
    - Use **List of Choices**, **Response Required** and **Allow participants to select multiple values** to allow buyers or suppliers to choose multiple values on terms. You must create your **List of Choices** to see the **Allow participants to select multiple values** option.
    - Use **Response Required** and **Use participant-specific initial values?** to allow buyers or suppliers to enter supplier specific values on terms.

5. Click **Add** to add your term. Click **Add More** to add more terms.

Importing Data from Microsoft Excel

SAP Ariba enables you to import sourcing event data from and export data to Microsoft Excel spreadsheets. This feature helps you enter a large volume of data quickly or save event information outside of SAP Ariba or to collaborate with colleagues.

Prerequisites

You must be the event owner or have project owner capabilities for the event.

Excel import functionality is only available while working with a draft version of the event. After an event has been published, the **Excel Import** button does not appear.

Context

Suppliers can use spreadsheets to enter a large volume of data quickly and to collaborate with colleagues. Spreadsheets can make it easier for suppliers to compose their responses, especially if they already have their bidding information in Microsoft Excel spreadsheets. When bidding is a collaboration among groups, suppliers can share the spreadsheet using email, combine the results, and then import the spreadsheet into SAP Ariba Sourcing.

This section steps you through a typical Microsoft Excel Import process.

Procedure

1. Create a simple RFx event for materials into which you want to import event data.
2. Click **Excel Import** in the **Material Items** section to open the **Import Content from Excel** page.

   To import content from Excel, you use the **Import Content from Excel** page to export existing content Microsoft Excel spreadsheets and then import the modified Excel spreadsheets.

   Complete the steps on the **Import Content from Excel** page as follows:

   a. Step 1: Select the data you want to import.
   b. Step 2: To download an Excel file with instructions and the appropriate column headers, click **Click here to open your RFP in an Excel Spreadsheet**. You can skip this step if you already have an Excel file with contents.

      > ⓘ Note
      >
      > Simple RFx events do not support attachments. The **Click here to download existing attachments into a Zip file** option is not supported for simple RFx events.

c. Step 3: Edit the downloaded Excel spreadsheet.
d. Step 4: Select how you want to import the event contents:if you want to add to or update the existing event contents with the same internal (System) ID, or if you want to delete all existing event contents and replace all existing event contents.
    - **Add to Event Content**: If an existing item in the event has the same System ID (internal ID) as an item in the import file, data for the item is replaced. If an existing event item has no corresponding item (same System ID) in the import file, it is deleted. Items in the import file without corresponding items in the event are added to the event.
    - **Replace Event Content**: All existing items in the event are deleted and replaced with the contents of the import file.
e. Step 5: Use the **Browse** button or drag-and-drop box to upload your modified Excel file.

    > ⓘ Note
    >
    > Simple RFx events do not support attachments. You cannot upload a ZIP file with attachments for simple RFx events.

f. Click **Import**.

Results

If there are errors, you will get a message listing them, up to about two dozen per import attempt.

Next Steps

If an error occurs, you must correct the problem in your Microsoft Excel spreadsheet. If you click **Cancel**, you will be taken back to the **Import Content from Excel** page. Browse to your file again and re–attempt to import it.

Not all errors cause an error to be displayed. For example, if you accidentally changed an optional column heading, the system ignores it during import, and the expected data under the column does not appear. Always verify that the data you think you loaded is displayed online.

When the template is error free, you are returned to the **Import Content from Excel** page. Look through the imported information to see if it is what you intended. If necessary drag and drop, or copy and paste the information to order it correctly.

Inviting Registered Suppliers

Prerequisites

You must be the event owner or have project owner capabilities for the event.

Before you can invite a supplier to an event, you must register or create the supplier.

⚠ Limitations

If you search for a supplier that is a subsidiary of a parent organization, the search results display only the supplier's parent organization or organizations. However, the search results display users for the supplier you are searching for. For example, if you search for participants in XYZ company, the search returns users in XYZ Company, but not in its parent, ABC Company.

If you search for a supplier that has subsidiaries, the search results display only the supplier organization you searched for, not any subsidiaries. You can click the organization name link to view any subsidiaries, if they exist.

If you change an invited supplier's organization name while the event is live, the supplier cannot participate in the event.

Context

If you want to invite all the users from a specific supplier organization, click the check box next to the supplier organization name. This adds only the users from the specific supplier organization and does not add users from the organization's subsidiaries, if they exist.

Procedure

1. Click **Invite** in the **Suppliers** section on the **Create Quote Request** page.

   The **Participant Search** page appears.
2. If you have already registered the supplier, enter their search information and click **Search**. To display a list of all suppliers registered in the system, click **Search** with no information entered into the search fields.

   To add search criteria or perform an advanced search, click **Options** and choose which fields to use in your search.
3. Select the suppliers that you want to add and click **OK**.

   The **Create Quote Request** page appears.

Next Steps

If you want to see the supplier's organization profile, click the supplier name or the dropdown next to the supplier name and choose **View Organization Profile**.

If you want to see the simple RFx event for materials from the supplier's view, click the supplier name or the dropdown next to the supplier name and choose **View As Participant**.

If you want to **Remove** a supplier, check the checkbox next to the supplier name and click **Remove**.

Removing Registered Suppliers

After inviting suppliers to a simple RFx event for materials, you can remove them.

Prerequisites

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)

Context

Registered suppliers can be removed from simple RFx events that are in a **Draft** status.

Procedure

1. In the **Suppliers** section on the **Create Quote Request** page, choose the checkbox next to the supplier you want to remove.
2. Click **Remove**.

Adding Team Members

Prerequisites

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)

> ⚠ Limitations
>
> Project creators can only edit the **Active Observers** and **Project Owners** groups, unless the project creator is also a member of one of the other groups. Groups you create on this page are local to this project only.

Context

The **Team Members** section on the **Create Quote Request** page and the **Team** tab in the event monitoring interface specifies who can see and interact with the event when the project's access control is set to **Private to Team Members**. You create your own group for a project so that you can select which actions you want to allow group members to perform.

> ⓘ Note
>
> The project groups in the **Team Members** section on the **Create Quote Request** page and the **Team** tab in the event monitoring interface are different from the groups you add from the dashboard by clicking **Manage** > **Administration**. The groups you add on the **Team Members** section on the **Create Quote Request** page and the **Team** tab in the event monitoring interface represent groups of users, for example, a group of supplier users for a particular commodity category.

The system grants each group permissions to perform various tasks. A user can be in multiple groups.

- **Active Observers** can view and modify events, create and edit documents, tasks, and announcements, access participants' messages and see the audit logs. They get event notifications as Project Owners do.

  > ⓘ Note
  >
  > Users with the Active Team Member role cannot edit the event unless they are a project owner of the event.

- **Administrators** have permissions to edit the event such as to delete irrational bids that block the progress of the event. You cannot change the members of this group.
- **Global Observers** can view all projects, Edit and Create Announcements, view audit logs, and access participants messages. The head of your sourcing organization might be a member of this group. Members of this group do not receive event notifications and cannot edit documents and tasks. You cannot change the members of this group.
- **Observers** can view announcements, but nothing else.

- **Project Owners** can edit this project. You can have multiple project owners, but the one listed on the **Summary** page is the one that appears in reports.
- **Surrogate Bidders** place bids for participants who are unable to place their own bids, perhaps because of technical problems. This group contains SAP Ariba customer support personnel to ensure proper market neutrality. You cannot change the members of this group. Surrogate Bidders cannot access or change participant account preferences.
- **Team Graders** can grade participant responses when team grading is enabled.

If a user belonging to any of the following groups is added to a Sourcing Project as a team member, the user can act as the "owner" of the project. This enables the user to access all content that is available to the project owner.

- ACM Administrator
- Contract Administrator
- Sales Contract Administrator
- Internal Contract Administrator
- Project Manager
- Event Administrator

Each group in the left column of the **Team Members** section on the **Create Quote Request** page and the **Team** tab in the event monitoring interface is a project group with permissions relevant to this event only. By contrast the groups that are members of the local group are global groups with permissions across multiple projects or events. Your organization's user administrator can add users to global groups.

For example, if you are a **Surrogate Bidder** you can add to members of the this event's **Surrogate Bidder** group on the **Team** page. But anyone you add is just a **Surrogate Bidder** for this event. The members list for **Surrogate Bidders** displays the system group of **Surrogate Bidders** plus the user you added, who is not a member of the system **Surrogate Bidders** group.

> ⓘ Note
>
> To globally replace a team member with a different team member, contact your administrator.

Add members of your own organization to the team that runs the event. The actions each user can perform depends on the group they are assigned to.

Procedure

1. In the **Team Members** section on the **Create Quote Request** page, click **Add Team Member** icon to the right of the group to which you want to add a member.
2. Enter the name of the team member or project group you want to add.
   Names that match the value you entered automatically appear.
3. Check the box to the left of the user you want to add.
4. Click **Add**.

Removing Team Members

Prerequisites

You must be the event owner or have project owner capabilities for the event.

> ⚠ Limitations
>
> Project creators can only edit the **Active Observers** and **Project Owner** groups, unless the project creator is also a member of one of the other groups. Groups you create on this page are local to this project only.

Context

You can remove members of your own organization from the team that runs the event.

Procedure

In the **Team Members** section on the **Create Quote Request** page, click the x icon on the right side of the team member or project group name you want to remove.

Sending Event Messages

Buyers can send messages to participants and team members for an event.

Prerequisites

You must be the event owner or have project owner capabilities for the event.

Context

Messages between the project owner and participants are useful for technical problems or questions. Received messages display in the browser window and are archived in the **Messages** tab. Messages are also sent to each recipient's regular email address.

Procedure

1. Open the simple RFx for materials and go to the **Messages** tab.
2. Click **Compose Message** at the bottom of the **Messages** tab.
3. Select the recipients.
4. Give the message a title. By default the subject is prefixed with the event ID, but you can change or remove it, if necessary.
5. If you would like to attach a file, click **Attach a file**.
   a. Click **Choose File**, navigate to the file you would like to attach, select it, and click **Open**.

      The name of the file you uploaded appears next to the **Choose File** button.
   b. Click **OK**.
6. Type in the text of the message.
7. Click **Send**.

Results

When you send a message, the recipient sees:

- A message on their **Messages** tab list.
- A regular email, if they correctly entered their email address in their user profile.

Viewing and Replying to Event Messages

Buyers can view and reply to messages from event participants and team members.

Prerequisites

You must be the event owner or have project owner capabilities for the event.

Click the **Table Options Menu** icon at the top right on the **Messages** tab and choose **All Messages**.

Procedure

1. Open the simple RFx event for materials and go to the **Messages** tab.
2. Do one of the following to view a message:
   - Choose a message and click **View**.
   - Double-click the message **Subject**.

3. Click **OK** to return to the **Messages** tab or click **Reply** to send a reply.

   You may also send a reply from the **Messages** tab by choosing a message and clicking **Reply**.

Updating Simple RFx Events for Materials

Prerequisites

You must be the event owner or have project owner capabilities for the event.

> ⚠ Limitations
>
> For envelope events the only edit you can perform is to discard everyone's responses and start over. For other events, you can change anything about them. Some changes will remove existing responses from participants, for example, if you change the type of a term from **Number** to **Money**.

Context

To replace the published version of an event with changes made to a draft version, update the event.

If you make changes to the event after some or all participants have already submitted bids, you must choose what to do with the existing bids that were not already removed by your change, since some of the bids might have become invalid. For example, maybe you notice that you forgot to set a participant-specific initial value for some participants or you lowered the ceiling price on a certain lot. When you update the event, you have the option to notify the participants that you have changed the event, and you can decide to discard or keep participants' existing responses.

Procedure

1. Access the simple RFx event you want to update.
2. Choose **Actions** > **Edit**.
3. On the **Create Quote Request** page, make your updates as needed.
4. Click **Republish**.
5. Choose **Keep and email** or **Do not keep, and email** to send participants the **Event Edited and Republished** notification.
6. Click **Update**.

Results

The system immediately updates the event with your changes, unless you need approval before publishing an event. In that case, the system submits your updates for approval. When the appropriate person provides approval, the system updates the event with your changes.

The **Event Edited and Republished** notification is sent when you republish your event.

Placing Surrogate Bids

Surrogate bidding enables a team member to act as a participant for the purpose of placing bids if the participant cannot, perhaps because of technical problems.

Prerequisites

To place surrogate bids, you must be a member of one of the following:

- **Event Administrator** group (access to this group must be approved by the SAP Ariba Market Coordination Team)
- **Sourcing Project Administrator** group
- **Surrogate Bidders** group (access to this group must be approved by the SAP Ariba Market Coordination Team)
- **Surrogate Bidders** group on the **Team** tab of the event

> ⚠ Limitations
>
> Surrogate bidders cannot access or change participant account preferences.

> ⓘ Note
>
> For more information on surrogate bidding, see Event Suppliers Tab in Event Management Guide.

Procedure

1. On the **Suppliers** tab, select the supplier on whose behalf you want to place a bid.
2. Click **Surrogate Bid**. You see the supplier's interface. Note the line at the top of the page that lets you know that you are acting as a participant: Acting as: <participant's name>(Stop).
3. Click your event in the event list. Navigate to the console and place the participant's bid.
4. Click **(Stop)** after Acting as: <participant's name>, at the top of the page to stop surrogate bidding and return to your own view of the event.

Accepting Supplier Pricing

After simple RFx events for materials move into a **Pending Selection** state, you can accept pricing across items and suppliers.

Prerequisites

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)

> ⓘ Note
>
> By default, only project owners (or event owners, depending on the type of the event) can accept supplier pricing. However, you can choose to restrict the ability to accept prices to only those project owners (or event owners) who are the material owners for the selected item. This behavior is controlled by the site parameter `Application.ACM.AcceptPricing.ValidationRule`, which can be configured to any of the following values:
>
> - ITEM_ID OWNERS ONLY: Only those users who are the material owners for the selected items and are part of the event owner or project owner group can accept prices.
> - EVENT OWNERS: All users of the event owner group can accept prices.
> - PROJECT OWNERS: All users of the project owner group can accept prices.
> - NO_VALIDATION: Any user can accept prices
>
> To configure the `Application.ACM.AcceptPricing.ValidationRule` site parameter, have your Designated Support Contact file a service request.

Context

The **Content** tab allows you to compare supplier responses by item. Using the **Display** dropdown menu options and table options menus, you can filter, sort, and organize supplier responses to your event in several ways.

Procedure

1. Access the **Content** tab of the event monitoring interface.
2. Select the supplier pricing information you want to accept. You can accept pricing across items and suppliers.

Results

SAP Ariba Strategic Sourcing Suite sends the pricing information to your SAP ECC system.

> **Note**
>
> The status of the simple RFx event for materials stays in a **Pending Selection** state until all items are awarded.

Importing Accept Pricing Microsoft Excel Files

The **Import Accept Pricing Excel File** page allows you to export and import a Microsoft Excel file that contains supplier pricing information that can be accepted.

Prerequisites

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)

> **Note**
>
> By default, only project owners (or event owners, depending on the type of the event) can accept supplier pricing. However, you can choose to restrict the ability to accept prices to only those project owners (or event owners) who are the material owners for the selected item. This behavior is controlled by the site parameter `Application.ACM.AcceptPricing.ValidationRule`, which can be configured to any of the following values:

- ITEM_ID OWNERS ONLY: Only those users who are the material owners for the selected items and are part of the event owner or project owner group can accept prices.
- EVENT OWNERS: All users of the event owner group can accept prices.
- PROJECT OWNERS: All users of the project owner group can accept prices.
- NO_VALIDATION: Any user can accept prices

To configure the `Application.ACM.AcceptPricing.ValidationRule` site parameter, have your Designated Support Contact file a service request.

Context

The **Content** tab allows you to compare supplier responses by item. Using the **Display** dropdown menu options and table options menus, you can filter, sort and organize supplier responses to your event in a several ways.

You can also accept pricing across items and suppliers using the Accept Pricing Excel file. The Accept Pricing Excel file is useful when you have many items or suppliers for which you want to accept pricing.

Procedure

1. Access the **Content** tab of the event monitoring interface.
2. Click **Import Accept Pricing Excel File**.

   The **Import Accept Pricing Excel File** page appears.
3. Click **Download Content** to generate an Accept Pricing Excel file for the event.

   When the file has finished generating, a browser dialog box opens with access options for the file.
4. Click **Open** or **Save**.
5. Open the Excel file and enter **Yes** in the **Accept Pricing** column for the supplier pricing you want to accept.
6. Save the Excel file.
7. Select your saved Excel file.
8. Click **Upload**.

   A message appears indicating that your Accept Pricing Excel file was imported successfully.
9. Click **Accept Price** on the **Content** tab to accept the imported pricing.

Results

SAP Ariba Strategic Sourcing Suite sends the pricing information to your SAP ECC system.

> **Note**
>
> The status of the simple RFx event for materials stays in a **Pending Selection** state until all items are awarded.

Creating a Quote Request with Estimated Lead Time Values

When a material with an estimated lead time is used in a Simple RFx to get a quote, the estimated lead time is entered as the initial value for the lead time if a value doesn't already exist.

Prerequisites

To create quote requests, 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)

You must be the owner of the material to create a quote request.

A published Simple RFx template with the **Lead Time** term at the item level is needed unless you want to add the term in the quote request.

Context

The estimated lead time can be entered for each of the items directly on the user interface or by Excel import. The estimated lead time is per supplier. If no lead time exists, the estimated lead time value is copied to the lead time field when getting a quote. The supplier then sees the estimated lead time value in the lead time field as an initial value. The supplier can change the estimated lead time value, which becomes the new lead time.

Procedure

1. Click the **Product Sourcing** dashboard tab.
2. Do one of the following:
    - Click the **Materials with missing lead time** tile.

> **Note**
>
> The **Materials with missing lead time** tile shows the materials that do not have a value for estimated lead time or lead time.

- Click any materials tile.

3. Select the materials.

   If you do not see the **Estimated lead time** or **Lead time** columns in the materials view, click the icon to add columns to the materials table and select them. The columns appear by default on the **Materials with missing lead time** tile.

4. Click **Material quote** > **Material Quote Using Simple RFX**.
5. Add a **Title** and select the **Template**.
6. If your template does not have a lead time term at the item level, you can click **Add Term** and create the **Lead time** term.
7. Add or edit an estimated value to the **Estimated lead time** for the item on the user interface or export and import the values using Excel.

   You must be the material owner to edit the estimated lead time value.

   When you create a Simple RFx, if an estimated lead time exists for a material and an approved manufacturer list (AML) supplier combination but the lead time doesn't exist from a previous event, the estimated lead time is used as the initial value in the **Lead time** field.
8. Complete the quote request and **Publish**.

Results

The estimated lead time is sent to the supplier as the default value for lead time in the quote request. The supplier can change the lead time or leave the estimated lead time value.

Sourcing Projects and Events in Product Sourcing

You can get quote pricing by creating sourcing projects and events directly from BOMs, BOM parts, or from the list of materials you manage. For example, a sourcing manager may want to run an RFP event or auction based on their list of materials. SAP Ariba does not restrict or limit the types of sourcing events which you can create in product sourcing.

About Creating Sourcing Projects and Events in Product Sourcing [page 230]

Creating Quick Sourcing Projects from Product Sourcing Materials [page 234]

Creating Full Sourcing Projects from Product Sourcing Materials [page 236]

Creating Full Guided Sourcing Projects from Product Sourcing Materials [page 238]

Creating a Single Event Guided Sourcing Project From Product Sourcing Materials [page 240]

Creating Sourcing Projects from Product Sourcing BOMs [page 242]

About Creating Sourcing Projects and Events in Product Sourcing

You can collect pricing for BOMs and materials with a total quantity based on the BOM quantity or BOM volume, across all BOMs.

When you create sourcing projects in product sourcing, SAP Ariba automatically transfers historic prices, quantity, supplier specific prices, and terms with supplier specific values to the sourcing project. SAP Ariba also automatically adds AML suppliers from product sourcing as invited suppliers in the sourcing project. You can also search for additional materials in product sourcing and add those materials to their sourcing events.

You can accept pricing during the event award process and the pricing information is sent back to product sourcing.

For more information about monitoring and awarding events, see Event Management Guide.

Price by Volume Integration

SAP Ariba enables you to enter validity periods for pricing in RFP sourcing events and contract line item documents (CLIDs). This gives you the ability to collect different prices during different validity periods, such as months, quarters, and years. You can also define optional volume scales. For example, you may want to collect pricing for items at the 500, 1000, and 1500 volume tiers. You can specify a volume scale type for the volume scales. Collecting cost terms per volume against a validity period can lead to more accurate pricing.

Event owners can set validity periods and volume tiers in the event as part of the item term's attribute definition. You can define different item terms for the following term types: Money, Single line, Single line limited, Whole number, Extended Price, Decimal, Quantity, and Percentage.

> **Note**
>
> Validity periods are available in contracts and RFPs, but they are not available in auctions.

Price by volume functionality enables you to:

- Define validity periods for volume pricing
- Define volume scale types and volume scales within each validity period
- Allow suppliers to create their own validity periods
- Add item terms to the price conditions

The volume scale type you define for a line item in the sourcing event can be a **From** scale or a **To** scale. After you choose a volume scale type, you can define volume scales. Volume scales can be based on quantity, value, gross

weight, volume, or net weight. Depending on the selection of the volume scale type, the defined scale determines different prices based on different volumes of the line item.

If you are using a **From** scale, you can also set a minimum value for the **From** scale in your SAP Ariba solution. Contact SAP Ariba support to set the minimum value. For example, if you specify 100 as the minimum value for the **From** scale, the pricing conditions page shows every line item with the first scale option as 100 by default.

> **Note**
>
> - Defining a scale with value 0 for the **To** scale is not allowed.
> - To disable the **From** scale pricing condition setting, the `Application.ACM.EnableFromScaleInPricingCondition` parameter value in the SAP Ariba solution must be set to **No**. Contact SAP Ariba support to set the parameter value.

For more information on different pricing condition settings, see Allow pricing conditions in Event rules reference guide.

When volume data is available for a BOM, the **Volume Integration** popup screen displays when users choose **Material quote** > **Material Quote Using Sourcing Project**. The **Volume integration** popup screen enables buyers to choose whether to include the volume data in the sourcing project.

The following fields appear on the **Volume Integration** popup screen:

- **Include Volumes in your Quote?**. Choose **Yes** to include volume data in your sourcing project. After you choose **Yes** the following fields display:
  - **Volume Type**: Choose the volume type you want to use in your quote.
  - **Across all BOMs?**: Indicate whether you want to use volumes from all the BOMs in which the material exists.

Pricing Condition Bidding Rules

The pricing condition bidding rule fields are available in the **Bidding Rules** section of RFP event templates:

- **Allow Pricing Conditions**. Choose **Yes** to allow event creators to configure validity periods. This rule must be enabled to use pricing conditions, validity periods and volume scales in RFP sourcing events. Select **No** to disable validity periods.
  When the **Allow Pricing Conditions** rule is enabled, the following rules appear:
  - **Validity Period Type**: This field is required. This rule determines the type of period for which you want to collect pricing. The following options are available for this rule:
    - **Monthly**: Choose this value to collect volume pricing in monthly increments. For example, if you want the validity period duration to last 8 months, choose **Month** in this field and enter **8** in the **Validity Period Duration** field.
    - **Quarterly**: Choose this value to collect volume pricing in quarterly increments.
    - **Annually**: Choose this value to collect volume pricing in yearly increments.
    - **Buyer Defined**: Choose this value to enable event owners to define the validity periods on an ad hoc basis. For example, a buyer can create a 6 month period, then a 3 month period, and then a 6 month period.
      - **Date Range**: This field displays when you choose **Buyer Defined**. Enter the date ranges for which you want the validity periods to apply.
    - **Perpetual**: Choose this value to collect volume pricing with no end date.
      - **End Date**: This read-only field appears when you choose **Perpetual**. This field indicates the date on which the validity for the pricing conditions end.

- **Supplier Defined**: Choose this value to enable suppliers to define the validity period type when they submit their event responses.
  - **End Date**: This field appears when you choose **Supplier Defined**. Enter the date on which you want the validity period for the pricing conditions to end.
  - **VolumeThreshold**: This field appears when you choose **Supplier Defined**. Enter the volume amount that suppliers must meet when submitting their responses.

> ⓘ Note
>
> **Buyer Defined**, **Perpetual**, and **Supplier Defined** are not supported for product sourcing integration with pricing and BOM volume functionality.

- **Start Date**: Date on which the validity periods begin. The validity period automatically ends after the duration time expires.

> ⓘ Note
>
> If the ICM parameter `Application.AQS.RFX.APC.DynamicStartDateSetting` is enabled for the site, the **Start validity period from** dropdown with options **Current validity period** and **Next validity period** appears instead of the **Start date** date picker. This is available only if the validity period type is set to monthly, quarterly, yearly, or perpetual. By default, **Start validity period from** is set to **Current validity period**.
>
> When **Start validity period from** is set to the current validity period, the pricing conditions are applied immediately, in the same cycle (month, quarter, year) in which the event is created. When this is set to the next validity period, the pricing conditions are applied from the next cycle.
>
> Setting **Start validity period from** to a relative value, such as current or next validity period, ensures that the pricing conditions validity period is applied dynamically whenever an event is created as part of a recurring quote.
>
> For perpetual, this setting applies the same way as monthly; that is, when set to the next validity period, the pricing conditions are applied from the next monthly cycle.
>
> Setting **Start validity period from** to a relative value, such as current or next validity period, ensures that the pricing conditions validity period is applied dynamically whenever an event is created as part of a recurring quote.
>
> For more information about the ICM parameter, see Enable dynamic validity period setting for advanced pricing conditions.

- **Number of Periods**: The number of validity periods. For example, if you want the validity period duration to last 6 months, choose **Month** for the **Validity Period Type** field and enter **6** in this field.
- **Volume Scale Type**: Choose **From** or **To** scale type to define the various volume scales for which you want to collect pricing. You can set a predefined value for the **From** scale by defining a value for the `Application.ACM.PricingConditionsFirstVolumeScaleValue` parameter in the SAP Ariba Administrator page. Contact SAP Ariba support to set the parameter value.
- **Scales**: Enter the volume tiers for which you want to collect pricing. For example, if you want to collect pricing for items at the 500, 1000, and 1500 volume tiers, you enter **500**, **1000**, and **1500**. You can add additional volume tiers as needed.
- **Enable period quantity**: Choose **Yes** to display the period quantity field on the pricing condition page. The period quantity value will either be a calculated field based on BOM Volumes or a buyer entered value.

- **Suppliers can view period quantity**: This rule appears when you choose **Yes** for the **Enable period quantity** rule. Choose **Yes** to show suppliers the period quantity field. The period quantity field appears as a non-editable field for suppliers.

Add Term to Pricing Conditions Rule

An **Add term to Pricing conditions** rule is available on the **Edit Term** page. Choose **Yes** to include the term when collecting price by time and volume information. When the **Add term to Pricing conditions** rule is enabled, a **View pricing conditions** link appears in the **Item Terms** section on the **Add Item** and **Edit Item** pages. You can click **View pricing conditions** to view the volume scale, validity period, and the cost terms. Pricing condition functionality supports the following answer types:

- Text
- Short String
- Whole Number
- Money
- Extended price
- Decimal Number
- Quantity
- Percentage

> **Note**
>
> By default, a line item in an event template contains the **Price**, **Quantity**, and **Extended Price** terms. You can configure these terms to use pricing conditions by enabling the **Add term to Pricing conditions** rule. When you configure the **Price** term to use pricing conditions, the **Extended Price** term is automatically configured to use pricing conditions. If you do not want to use **Extended Price** with pricing conditions, you can remove the **Extended Price** term from the event template and retain only the **Price** term.

If your site is integrated with SAP ERP, then the follow-on documents such as purchase orders, contracts, and scheduling agreements created in SAP ERP based on the award information from SAP Ariba Strategic Sourcing Suite supports the use of pricing conditions for item terms of percentage, quantity, and decimal number answer types. Note that the buyer must implement the necessary mappings to support integration of pricing conditions for item terms of decimal, quantity, and percentage answer types. For more information, see RFQ and award integration with SAP Ariba Sourcing.

> **Note**
>
> If the sourcing event contains Discount Percentage and Surcharge Percentage item terms, ensure to use custom mappings for these terms in SAP Integration Suite, managed gateway for spend management and SAP Business Network.

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.

Restrictions

- The external system defaults from the materials and cannot be edited.

- SAP Ariba only calculates historic prices when the AML split for AML suppliers is set to 100%.
- Pricing conditions such as validity periods and volume scales are supported only for material items and does not support service line items.
- You cannot configure the default Quantity item term that appears in the sourcing event template to use pricing conditions.
- PIRs do not support custom item terms with pricing conditions.
- The Pricing condition functionality is not available for Out-of-the-Box (OOTB) terms, and the **Add Term to Pricing Conditions** rule does not display for these terms.
  For example, OOTB terms such as **Total Cost**, **Unit Cost**, **Best Extended Price**, **Best Price**, and certain formula-based **Money** answer type terms cannot be used as pricing conditions. To configure item terms with pricing conditions, create a new term and select **Yes** in the **Add Term to Pricing Conditions** option.

Creating Quick Sourcing Projects from Product Sourcing Materials

Quick sourcing projects are single sourcing events. Unlike full sourcing projects, quick sourcing projects do not include full project management features.

Prerequisites

To view and select materials for quote requests, you must be a member of one of the following groups:

- **Materials Viewer**
- **Materials Manager**

To create quote requests, 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)

Context

The action tiles that are available to you depend on the dashboard tabs that are available to you and your user permissions.

When editing an event, some portions of a page might be hidden from you, or be predefined. You may be able to skip some pages. The pages and fields depend on the event template you chose.

Procedure

1. Click the **Product Sourcing** dashboard tab.
2. Complete one of the following actions to display materials:
   - Click one of the materials action tiles. The data table automatically filters to display materials according to the action tile you selected.
   - Enter a material name or ID in the search box and click the search icon.
   - Click **Advanced Search**. On the **Advanced Search** page, enter one or more material IDs, separated by spaces.
3. Select the materials for which you want supplier quotes and click **Material quote** > **Material Quote Using Sourcing Project**.
   If the material has volume data, the **Volume Integration** popup screen displays. If the material does not have volume data, the **Create Sourcing Project** page displays.
4. On the **Volume Integration** popup screen, choose **Yes** to include the material's volume data in your event. When you choose **Yes**, the following fields display:
   - **Volume Type**. Choose the volume type you want to use in your quote.
   - **Across all BOMs?** Indicate whether you want to use volumes from all the BOMs in which the material exists.
5. Click **Continue**.
6. On the **Create Sourcing Project** page, enter a name and description for your event.

   You can enter an unlimited number of characters in the **Name** and **Description** fields. Other fields might limit you to 255 characters.
7. Click **Quick Project**.
8. Choose the event type that you want to create from the **Event Type** dropdown menu. The event type controls the display of event templates, which are different for each event type.
9. Select a value for the **Test Project** field. In most cases, **No** is the appropriate value. Specify **Yes** if you are creating a project for internal testing or training.

   > **Note**
   >
   > You cannot change the test project setting after you have created a project.
10. Specify values for the remaining sourcing project fields; see Sourcing Project Fields for information about these fields.
11. Select a template for the project. The templates that are available depend on the project information you have entered and the user groups to which you belong.

12. Click **Create**.

    SAP Ariba automatically transfers historic prices, quantity, supplier specific prices, terms with supplier specific values, volume data, and suppliers to the sourcing event.

13. To search for and add additional Product Sourcing materials, click **Add** > **Content from Product Sourcing**.

    SAP Ariba displays the **Advanced Search** > **Add items from material master** page.

14. Enter one or more material IDs or names, separated by spaces.
15. Click **Search**.
16. Choose the materials you want to add.
17. Click **Add**.

    SAP Ariba adds the materials to the event and the **Content** page displays.

Next Steps

For more information about creating sourcing projects and events, see Event Management Guide.

Related Information

Unified material master data search for sourcing events

Creating Full Sourcing Projects from Product Sourcing Materials

Full sourcing projects can include one or more sourcing events and include full project management features.

Prerequisites

To view and select materials for quote requests, you must be a member of one of the following groups:

- **Materials Viewer**
- **Materials Manager**

To create quote requests, 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)

Context

Before you create a sourcing project, SAP Ariba recommends that you:

- Define all of the project's requirements and make sure that the available templates meet those requirements. You might need to ask your template administrator to create additional templates.
- Determine if you want to create a full project (one or more sourcing events, with full project management feature, including task management) or a quick project (a single sourcing event).
- Select the appropriate template for your project.
- Consider the supplemental documents you want to include in the project.

Procedure

1. Click the **Product Sourcing** dashboard tab.
2. Complete one of the following actions to display materials:
    - Click one of the materials action tiles. The data table automatically filters to display materials according to the action tile you selected.
    - Enter a material name or ID in the search box and click the search icon.
    - Click **Advanced Search**. On the **Advanced Search** page, enter one or more material IDs, separated by spaces.
3. Select the materials for which you want supplier quotes and click **Material quote** > **Material Quote Using Sourcing Project**.
   If the material has volume data, the **Volume Integration** popup screen displays. If the material does not have volume data, the **Create Sourcing Project** page displays.
4. On the **Volume Integration** popup screen, choose **Yes** to include the material's volume data in your event. When you choose **Yes**, the following fields display:
    - **Volume Type**. Choose the volume type you want to use in your quote.
    - **Across all BOMs?** Indicate whether you want to use volumes from all the BOMs in which the material exists.
5. Click **Continue**.
6. On the **Create Sourcing Project** page, enter a name and description for your event.

You can enter an unlimited number of characters in the **Name** and **Description** fields. Other fields might limit you to 255 characters.

7. Select **Full Project**. A full project can contain multiple sourcing events and includes all project management features.
8. Select a value for the **Test Project** field. In most cases, **No** is the appropriate value. Specify **Yes** if you are creating a project for internal testing or training.

   > ⓘ Note
   >
   > You cannot change the test project setting after you have created a project.

9. Specify values for the remaining sourcing project fields; see Sourcing Project Fields for information about these fields.
10. Select a template for the project. The templates that are available depend on the project information you have entered and the user groups you belong to.
11. Answer any questions shown. The questions are determined by the project template.
12. Click **Create**.

Next Steps

For more information about creating sourcing projects and events, see Event Management Guide.

Creating Full Guided Sourcing Projects from Product Sourcing Materials

If your site has imported product sourcing items from an external system, you can add product sourcing items to your event.

Prerequisites

- Your site must have guided sourcing enabled and you must be a member of the **Category Buyer** group.
- You must be the event owner or have project owner capabilities for the event.
- Your site must be integrated with an external system for bill of materials (BOM) and material data, as described in the SAP Ariba Product Sourcing Guide [page 6].
- The following event document options are required in the guided sourcing project template used for the event to which you are adding product sourcing items:
  - The event document has a line item with the following terms:
    - Price
    - Quantity
    - Extended Price

- The template creator chose the **Prototype** > **Ad Hoc Creation** option in the **Conditions** column for the event document in the project template.

Context

Before you create a sourcing project, SAP Ariba recommends that you:

- Define all of the project's requirements and make sure that the available templates meet those requirements. You might need to ask your template administrator to create additional templates.
- Determine if you want to create a full project (one or more sourcing events, with full project management feature, including task management) or a quick project (a single sourcing event).
- Select the appropriate template for your project.
- Consider the supplemental documents you want to include in the project.

Procedure

1. Click the **Product Sourcing** dashboard tab.
2. Complete one of the following actions to display BOMs or materials:
   - Click one of the BOM or materials action tiles. The data table automatically filters to display BOMs or materials according to the action tile you selected.
   - Enter a BOM or material name or ID in the search box and click the search icon.
   - Click **Advanced Search**. On the **Advanced Search** page, enter one or more BOM or material IDs, separated by spaces.
3. Select the BOMs or materials for which you want supplier quotes and click **BOM quote** > **Guided Sourcing** or **Material quote** > **Guided Sourcing**.
4. Click **Create**.
5. On the **Create guided sourcing project** page, enter a name and description for your event.

   You can enter an unlimited number of characters in the **Name** and **Description** fields. Other fields might limit you to 255 characters.
6. Select **Full Project**. A full project can contain multiple sourcing events and includes all project management features.
7. Select a value for the **Test Project** field. In most cases, **No** is the appropriate value. Specify **Yes** if you are creating a project for internal testing or training.

   > **Note**
   >
   > You cannot change the test project setting after you have created a project.
8. Specify values for the remaining sourcing project fields; see the *Managing events with guided sourcing* for information about these fields.
9. Select a template for the project. The templates that are available depend on the project information you have entered and the user groups you belong to.

10. Answer any questions shown. The questions are determined by the project template.
11. Click **Create**.
12. In the **Events and other documents** section, choose **Create** > **Document** > **Sourcing event**.
13. Click **Next** and follow the steps in detailed in Creating a Guided Sourcing Event in a Full Project.
14. Go to the **Items that need quotes** panel and click **Add** > **Items from product sourcing**.
    The product sourcing items you selected on the **Product Sourcing** dashboard are added to the event.

Related Information

Configuring an External System for Master Data
Material Group Mapping to Commodity Field in Guided Sourcing
Unified material master data search for sourcing events

Creating a Single Event Guided Sourcing Project From Product Sourcing Materials

Use this procedure to create single event guided sourcing projects from product sourcing materials, integrated with Approved Manufacturer Facilities (AMF) data for suppliers participating in the event.

Prerequisites

- Your site must have guided sourcing enabled and you must be a member of the **Category Buyer** group. For information about enabling guided sourcing, refer to Setting Up Guided Sourcing.
- Your site must be integrated with an external system for material data. For more information, refer to SAP Ariba Product Sourcing Guide [page 6].
- The supplier data imported in your site must include the supplier factory data. For information about importing supplier data, refer to Supplier Factory Data File Format.
- The guided sourcing project template that you plan to use for creating the sourcing event must contain the global term **FACTORY**.

Context

The AMF data integrated in a guided sourcing event helps buyers to review the factory details of suppliers before publishing the event to get a material quote. Suppliers can use the AMF data to select the suitable AMF for each line item before placing their bids.

Procedure

1. Go to the **Product Sourcing** tab from the home page and select the **Materials** radio button.
2. Search for the material by providing the material name or ID in the search field.

   You can also select **Advanced Search** and enter multiple material IDs separated by spaces on the **Advanced Search** page.
3. Select the material for which you want supplier quotes and click **Material quote**.

   The **Get quote** dialog box appears.
4. Select the **Guided Sourcing** option from the **Use** section.

   Make other selections on the dialog box as necessary.
5. Click **Continue** to initialize the guided sourcing project.

   The **Create guided sourcing project** page appears.
6. Enter a name and description for the event.

   > ⓘ Note
   >
   > The **Project type** field is set to **Single event** by default.
7. Set the value for **Test Project** to **No**.
8. Fill out additional project fields as necessary.

   For information about standard project fields, refer to Sourcing Project Fields.
9. Select a template for the project.

   The templates that are available depend on the project information you enter and the user groups you belong to.

   To get the AMF data for the suppliers participating in the event, you must select a template that contains the term **FACTORY**.
10. Respond to any additional questions that may appear on selecting the project template.
11. Click **Create**.
12. Go to the **Items that need quotes** panel and click the **Factory** option corresponding to a line item.

    The clickable link is available under the column for the term **FACTORY**.
13. On the **Suppliers and Factories** popup, select a supplier from the dropdown list to view the associated factory details.
14. Review the event details and publish the event.
15. To verify the AMF data from the supplier's perspective, place a surrogate bid.

    For information about placing surrogate bids in guided sourcing, refer to Placing Surrogate Bids in Guided Sourcing Events.

    To view the AMF data for the supplier, select **All content** under the **Event Contents** group. The details are available under the column for the term **FACTORY**.

    > ⓘ Note
    >
    > If the supplier does not have any factories associated with them, a blank checkbox is shown.

If the supplier has multiple factories associated with them, they are arranged in a list with a checkbox for each factory. You can select more than one factory while bidding for a line item.

Next Steps

Review supplier responses and award the event. While reviewing, verify the supplier bids and the factories selected for each line item in the guided sourcing event.

For more information about reviewing responses and awarding guided sourcing events, refer to Review Responses and Award Creation for Guided Sourcing Events.

Creating Sourcing Projects from Product Sourcing BOMs

Prerequisites

To view and select BOMs for quote requests, you must be a member of one of the following groups:

- **Materials Viewer**
- **Materials Administrator**

To create quote requests, 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)

Context

You can create a sourcing project from one BOM, including volumes. You can choose the materials that are visible to suppliers and which materials suppliers are able to bid on. The event total and BOM rollup are visible in the event when suppliers submit their pricing.

Procedure

1. Click the **Product Sourcing** dashboard tab.
2. Complete one of the following actions to display parent BOMs:
   - Click one of the BOM action tiles. The data table automatically filters to display BOMs according to the action tile you selected.
   - Enter a BOM name or ID in the search box and click the search icon.
   - Click **Advanced Search**. On the **Advanced Search** page, enter one or more BOM IDs, separated by spaces.
3. Select the parent BOM for which you want supplier quotes and click **BOM Quote**.

   > ⓘ Note
   >
   > You can also select non parent BOMs or assembly items and select **Material quote** to get quotes for the selected items.

4. (Optional) On the **BOM Quote** popup screen, complete the following fields:
   - **Visible Part Types**. Choose the part types you want to make visible to suppliers during the sourcing event.
   - **Quotable Part Types**. Choose the part types for which you want suppliers to submit pricing.
   - **Volume**. Choose **Yes** to include BOM volume data in your event. When you choose **Yes**, the **Volume Type** field displays.
5. Click **Done**.
   The **Create Sourcing Project** page displays.
6. On the **Create Sourcing Project** page, enter a name and description for your event.

   You can enter an unlimited number of characters in the **Name** and **Description** fields. Other fields might limit you to 255 characters.
7. Choose one of the following options:
   - Choose **Full Project**. A full project can contain multiple sourcing events and includes all project management features.
   - Choose **Quick Project**. A quick project is a single sourcing event.
8. If you choose to create a quick project, choose the event type that you want to create from the **Event Type** pull-down menu. The event type controls the display of event templates, which are different for each event type.
9. Select a value for the **Test Project** field. In most cases, **No** is the appropriate value. Specify **Yes** if you are creating a project for internal testing or training.

   > ⓘ Note
   >
   > You cannot change the test project setting after you have created a project.

10. Specify values for the remaining sourcing project fields; see Sourcing Project Fields for information about these fields.
11. Select a template for the project. The templates that are available depend on the project information you have entered and the user groups you belong to.
12. Answer any questions shown. The questions are determined by the project template.
13. Click **Create**.

Next Steps

For more information about creating sourcing projects and events, see Event Management Guide.

Adding Product Sourcing Materials to Sourcing Events

When you create full sourcing projects from product sourcing, you can search for and add additional product sourcing content to your event.

Prerequisites

To view and select materials for quote requests, you must be a member of one of the following groups:

- **Materials Viewer**
- **Materials Administrator**

To create quote requests, 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)

Context

SAP Ariba automatically adds the Product Sourcing materials you select to the event.

Procedure

1. On the **Content** page, click **Add** > **Content From Product Sourcing** to search for additional product sourcing content to add to your event.
2. On the **Advanced Search** > **Add items from material master** page, enter the IDs or names of the materials you want to add, separated by spaces.
3. Click **Search**.
4. Select the materials you want to add to your sourcing event.
5. Click **Add**.
   SAP Ariba automatically adds the materials to the event.

Related Information

Unified material master data search for sourcing events

Mass Editing Item Pricing Conditions

Use this procedure to mass edit item pricing conditions. If you need to update pricing condition bidding rules for multiple items, you can update all the items at the same time.

Prerequisites

You must be the event owner or have project owner capabilities for the event.

Context

You can perform mass edits on the **Content** page.

Procedure

1. On the **Content** tab of the **Event** page, select the items you want to update.
2. Choose **Edit** > **Pricing Conditions**.
   SAP Ariba displays the **Edit Pricing Conditions** page.
3. Update the pricing condition rules as needed.

4. Click **OK**.

Results

The pricing condition rules for the selected items are updated.

Adding Pricing Conditions to Basket Lots for Contract Line Items Documents (CLIDs)

The pricing conditions feature is available only on sites that have SAP Ariba Strategic Sourcing Suite enabled.

Context

> **Note**
>
> Extended price is supported as part of pricing conditions for only line items, not basket lots.

Procedure

1. The buyer creates a procurement contract workspace template for using pricing conditions for basket lots by clicking **Manage** > **Templates** and choosing **Action** > **Template**, then by choosing **Create New Project template**.
2. The buyer opens the procurement contract workspace template that uses pricing conditions for basket lots.
3. The buyer clicks **Actions** > **Line items Document** to open the **Create Line Items Document** page.
4. The buyer scrolls down to the **Allow pricing conditions** field and ensures that pricing conditions are enabled.
5. The buyer adds line items and basket lots with terms to the CLID.
6. The buyer edits the terms to ensure that the **Add term to Pricing conditions** field is set to Yes.
7. The buyer publishes the contract workpace template that uses pricing conditions.
8. The buyer creates a procurement contract workspace.
9. In the Select a template section, the buyer chooses the published basket lots template that uses pricing conditions.
10. The buyer edits the CLID to add a line item containing pricing conditions. Buyers can select a line item or in the data table and click ⓢ to display the popup **Pricing condition settings**.
11. The buyer edits the CLID to add a basket lot containing pricing conditions. Buyers can select a basket lot in the data table and click ⓢ to display the popup **Pricing condition settings**.

Adding Pricing Conditions for Basket Lots for Sourcing Events

The pricing conditions feature is available only on sites that have SAP Ariba Strategic Sourcing Suite enabled.

Context

> **Note**
>
> Extended price is supported as part of pricing conditions for only line items, not basket lots.

Procedure

1. The buyer creates a sourcing project template for using pricing conditions by clicking **Manage** > **Templates** and choosing **Action** > **Template**, then by choosing **Create New Project template**.
2. The buyer opens the sourcing project template that contains pricing conditions.
3. Under **Documents**, the buyer selects the document containing details about the sourcing event, and clicks **Edit** (under Actions) to edit the details.
4. In the **Rules** section, the buyer scrolls down to the Allow pricing conditions field and ensures that pricing conditions are enabled.
5. In the **Content** section, the buyer adds line items and basket lots with terms to the request for proposal (or other sourcing event) document.
6. The buyer clicks **Exit** to return to the sourcing project.
7. The buyer publishes the sourcing project template that uses pricing conditions
8. The buyer creates a sourcing project for basket lots.
9. In the Select a template section, the buyer chooses the published basket lots template that uses pricing conditions.
10. The buyer adds details such as the timing rules for the sourcing event, invites suppliers to the sourcing event, and publishes the sourcing event.
11. In the **Content** section, the buyer adds line items and basket lots with terms to the request for proposal (or other sourcing event) document. Buyers can select a line item or basket lot or in the data table and click ⓢ to display the popup **View pricing conditions**.
12. The buyer clicks **Publish** to publish the event.

Creating a Price Acceptance Scenario from an Auction Event

Buyers using the product sourcing features of SAP Ariba Strategic Sourcing Suite can create price acceptance scenarios from reverse and forward auction events.

Prerequisites

- The SAP Ariba Sourcing site must have the external system integration with an SAP ERP or SAP S/4HANA system configured and the purchase info record integration with the external system enabled and configured.
- The auction event for which you want to create the price acceptance scenario must be in the **Pending Selection** state.

Context

The price acceptance scenario enables you to choose items for which you want to create purchasing info records (PIRs) from SAP Ariba Sourcing that is integrated with external systems such as SAP ERP or SAP S/4HANA.

Procedure

1. On the **Scenario** tab of the event page, choose **Create** > **Price Acceptance Scenario**.
2. Enter a name for your scenario in the **Name** field.
3. Choose the items for which you want to create a PIR. You can choose items in the following ways on the **Price Acceptance Details** page:
   a. Choose a supplier from the **Select Supplier** pull-down menu. This automatically chooses all the items under that supplier.
   b. Choose individual items by checking the corresponding checkboxes.
4. Click **Create and send PIR**. This creates PIR information and sends it to the external system.

   > **Note**
   >
   > If no external system is maintained, an error message that states *Business system is not created* appears.

5. Click **Save** to save and exit the scenario. The scenario appears as **Price Acceptance Scenario** on the **Scenario** tab.
   The **Price Acceptance Scenario** can be edited and viewed, similar to manual scenarios on the **Scenario** tab. You can update the scenario and submit it when you are ready.

Recurring Quotes for Material Items

Recurring quotes automatically create and publish events according to schedules that the buyers specify.

Buyers using guided sourcing can configure recurring quote requests for frequently or regularly sourced material items and schedule the frequency at which sourcing events are to be held. You can specify how often, in how many weeks or months, and on what day and at what time the sourcing events go live. The event configuration, including items, templates, and suppliers, specified at the time of creating a recurring quote request is applied to all instances of sourcing events that are created based on the recurring quote request. A new widget, **Recurring quotes**, is added to provide you easy access to recurring quotes from the product sourcing dashboard.

Recurring quotes can be created from the **Recurring quotes** page that appears when you click the **Recurring quotes** widget. Alternatively, you can click the **Create recurring quote** button that appears on the **Advanced search** page or on the **Product Sourcing** dashboard when you access widgets such as **Materials with missing prices** or a custom widget that brings up a list of materials.

The **Recurring quotes** page lists the recurring quotes created on the site, their status, next event date, and number of events in each of the recurring quotes. It also provides you the **>** button to access the recurring quote details page for viewing details of the recurring quote. The recurring quote details page displays the event details and provides buttons for editing and deactivating or activating the recurring quote schedule. When you deactivate a recurring quote, you pause the recurrence, which can be restarted by activating the recurring quote.

Note that events that are part of a recurring quote are created and published through a scheduled task ahead of the time the event is scheduled to open for responses.

You can either manually select items or specify the filter criteria based on which you want to dynamically add items to an event. Similarly, you can manually add suppliers or add only suppliers from the approved manufacturers list (AML) for the selected items.

Ability to Dynamically Add Items to the Recurring Quote

You can configure various search filters in the advanced search to dynamically create a list of items to be included in a recurring quote. Apart from the various advanced search options for filtering items, you can also apply a filtering criterion to include items that have prices expiring in a given number of days from the time of event creation.

When the **Item price expiring in days** filter is specified along with advanced search criteria, all item-plant combinations that meet the rest of the advanced search criteria are checked for price availability and expiring prices. Any item-plant combination that does not have a price or has its price expiring during the specified period is added to the recurring quote.

> ⓘ Note
>
> If an item-plant combination is associated with multiple AML suppliers and if the price is not available or is expiring during the specified period for any of the item-plant-supplier combination, the item-plant combination is identified as price expiring and is added to the event.

When the filter criteria is defined for dynamically adding items to the recurring quote, the list of items might vary among events in a recurring quote based on changes in the material master.

Ability to Dynamically Apply Validity Period for Advanced Pricing Conditions

If the guided sourcing RFP template used for creating the recurring quote has pricing conditions enabled in the **Bidding rules** section and the **Validity period type** is set to monthly, quarterly, yearly, or perpetual, you can set the validity period start to current or next validity period. This setting dynamically applies the validity period whenever a new event is created.

> **Note**
>
> The **Start validity period from** setting and the options **Current validity period** and **Next validity period** are available only if the ICM parameter `Application.AQS.RFX.APC.DynamicStartDateSetting` is set to **`True`**. By default, this parameter is set to **`False`**.

When **Start validity period from** is set to the current validity period, the pricing conditions are applied immediately, in the same cycle (month, quarter, year) in which the event is created. When this is set to the next validity period, the pricing conditions are applied from the next cycle.

Setting **Start validity period from** to a relative value, such as current or next validity period, ensures that the pricing conditions validity period is applied dynamically whenever an event is created as part of a recurring quote.

For perpetual, this setting applies the same way as monthly; that is, when set to the next validity period, the pricing conditions are applied from the next monthly cycle.

> **Note**
>
> When `Application.AQS.RFX.APC.DynamicStartDateSetting` is set to true, the **Start validity period from** setting is available in both classic sourcing and guided sourcing RFx event templates that have advanced pricing conditions enabled.

Prerequisites

- This feature is supported only in the guided sourcing user interface. To use this feature in the guided sourcing user interface, your site must have guided sourcing enabled.
  Only guided sourcing RFP templates can be used for creating recurring quotes.
- You must be a member of both the **Category Buyer** group and the **Material Manager** group to be able to view and access the **Recurring quote** widget and create, edit, or pause or restart a recurring quote.
  Only those users who are members of the **Material Administrator** along with the **Category Buyer** and **Material Manager** groups can edit, pause, or restart a recurring quote created by users other than the signed in user.
- Ensure that your site has the product sourcing features configured and the material master data loaded.
- If you plan to use pricing conditions of validity period type monthly, quarterly, yearly, or perpetual, ensure that the ICM parameter **Application.AQS.RFX.APC.DynamicStartDateSetting** is set to **`True`** and the **Start validity period from** option in the **Bidding rules** section is set to an appropriate value.

Restrictions

- You cannot delete a recurring quote. You can only deactivate it.
- Continuous quotes support only standard capacity (up to 2000 line items) events.
- The maximum number of recurring quotes you can create is limited to 50.
- Article master-based recurring quotes are not supported.
- Custom header fields in guided sourcing are converted to text fields in the recurring quote irrespective of the data type defined in guided sourcing.

Creating a Recurring Quote Request

Use this procedure to create a recurring quote for material items that are sourced frequently or regularly.

Prerequisites

You must be a member of both the **Category Buyer** and **Material Manager** groups.

Context

A recurring quote request enables you to configure a schedule to automatically create guided sourcing events. You can add materials for which you want to create the sourcing events or specify search criteria based on which materials are dynamically added to the events and specify the suppliers to be invited into the event. The sourcing events are also automatically published if there are no specific user inputs required.

> **Note**
>
> After you create a recurring quote, you can edit or deactivate the quote. However, you cannot delete it.

Procedure

1. Sign in to the application and go to the product sourcing dashboard.
   - Select any of the widgets that bring up the list of materials you want to add to the recurring quote. Then select **Create recurring quote**.

     > **Note**
     >
     > If you select one or more items from the list of materials before selecting **Create recurring quote**, the selected items are added to the recurring quote.

- Select the **Recurring quotes** widget. Then click **Create** from the **Recurring quotes** menu.

The **New recurring quote** page appears.

2. In the **General information** section, complete the following settings:

Field Name	Description
Recurring quote name	Specify the name of the recurring quote. **Note** You cannot edit this field after you create the recurring quote.
Description	Specify a description for the recurring quote.
Event Name	Specify the name of the guided sourcing events created from the recurring quote.
Event Name Modifier for Each Recurrence	Specify the suffix for generating unique names for the recurring guided sourcing events. You can choose: **Date** to suffix the date of the recurrence to the event name. or **Incremental number** to suffix the number of the recurring instance to the event name.

3. Select the appropriate values for the header fields in the **Project Details** section.

Note

Because custom header fields in guided sourcing appear as text fields in the recurring quote irrespective of the data type defined in guided sourcing, ensure that you:

- enter `Yes` or `No` for any Boolean custom field.
- follow the same date format as used in standard date fields for any custom date field. For example, if the standard date fields use *MM/DD/YYYY*, use the *MM/DD/YYYY* format for the custom date fields as well.
- enter comma-separated values for any multi-select custom field and that the values match the entries available for the corresponding custom fields in guided sourcing.
- enter the user IDs as comma-separated values in the multi-select user field.

4. From the **Template** section:
   - Select a guided sourcing RFP template from the **Choose Template** dropdown.

     Note

     All guided sourcing RFP templates, irrespective of their visibility conditions, are listed here and available for selection.
   - Select an **External system** from the dropdown.
5. From the **Scheduling** section, complete the following configuration:

Field Name	Description
Repeat event every	Specify how often the event needs to be repeated. Enter the number and select **Week** or **Month** from the dropdown.
On Day	Select the weekday (for the weekly events) or the calendar day (for the monthly events) on which the event goes live.
Open for responses from	Select the time of the day when the event starts accepting responses. **Note** The time is always set to the time zone configured for the site where the recurring quote is created.
Event duration	Specify the number of minutes, hours, or days for which the event remains open. After you specify the number, select **Minute**, **Hour**, or **Day** from the dropdown.
Recurring Quote Start Date	Specify the date after which the first guided sourcing event from the recurring quote is to be published. For example, if the event is scheduled to occur on Tuesdays every week, and if this field is set to February 18, 2022, which is a Friday, the first event will occur on Tuesday, February 22, 2022. **Note** If the event is configured to repeat every week, you cannot create the first event on the same day. If you specify the current date as the **Recurring Quote Start Date** for an event that is scheduled to repeat every week on that day, the first event is created only in the next week.
End occurrence	Specify the date before which the last occurrence of the recurring events must occur. For example, if the event is scheduled to occur on Tuesdays every week, and if this field is set to February 27, 2022, which is a Friday, the last event will occur on Tuesday, February 22, 2022.
No end date	Turn on this toggle if you do not want to specify a value for **End occurrence**. When this toggle is enabled, **End occurrence** is disabled.

6. From the **Items** section:

   - Select **Select items manually** and click **Add**. From the *Add items from material master* page, search for material items, select the items, and click **Add**.

     Note

     If you selected items in Step 1, those items are also added to the recurring quote.

     or

   - Select **Use item filter criteria** for dynamically adding items based on a specified filtering criteria. Apart from the various advanced search options for filtering items, you can also apply a filtering criterion to include items that have prices expiring in a given number of days from the time of event creation. When the **Item price expiring in days** filter is specified along with advanced search criteria, all item-plant combinations that meet the rest of the advanced search criteria are checked for price availability and

expiring prices. Any item-plant combination that does not have a price or has the price expiring during the specified period is added to the recurring quote.

> **Note**
>
> If an item-plant combination is associated with multiple AML suppliers and if the price is not available or is expiring during the specified period for any of the item-plant-supplier combination, the item-plant combination is identified as price expiring and is added to the event.

If you specify a filter criteria for dynamically adding items, the filter is applied every time a new event is created in the recurring quote and therefore, the items might vary among events in a recurring quote based on changes in the material master.

7. From the **Suppliers** section:
   - Select **Use item associated suppliers (AML)** to dynamically add suppliers from the approved manufacturer lists (AML) associated with the selected items.
   - Select **Add specific suppliers** and click **Add** to manually add suppliers in addition to the AML suppliers for the selected items.
8. Select **Create** to save and publish the changes.
9. **Optional:** Select **Save as draft** to save the changes without publishing.
10. **Optional:** Select **Cancel** to discard the changes.

Results

A scheduled task creates guided sourcing events according to the specified schedule. The events are also auto-published by the scheduled task if there are no user inputs required.

However, if a recurring guided sourcing event has mandatory terms that require user input, the scheduled task searches for a recently awarded guided sourcing event with the same materials, terms, and supplier combination. If such an event exists, the scheduled task auto-populates the required term values from the event in the recurring sourcing event. The recurring sourcing event is then auto-published.

If such an event doesn't exist, the recurring sourcing event is not auto-published. Buyers must enter the required values and publish the event manually.

Editing a Recurring Quote

You can edit a recurring quote to modify the recurring quote configuration.

Prerequisites

You must be a member of both the **Category Buyer** and **Material Manager** groups.

To edit recurring quotes created by other users, you must be a member of the **Material Administrator** group along with the **Category Buyer** and **Material Manager** groups.

Context

You can modify the event configuration including the schedules, template, items, and suppliers. However, you cannot modify the **Recurring quote name**. After you make the changes, you can either to update the recurring quote or save the changes as a draft.

> ⓘ Note
>
> Changes you make to the recurring quote settings are applied only to the events created subsequently.

To edit a recurring quote:

Procedure

1. From the product sourcing dashboard, click the **Recurring quotes** widget.

   The **Recurring quotes** page appears.
2. Search for or navigate to the recurring quote that you want to edit and click the **>** button.

   The recurring quote details page appears.
3. Click the **Edit** button to modify the event configuration.

   The **Edit Recurring Quote** page appears.
4. Modify the event configuration as required.

   > ⓘ Note
   >
   > You cannot edit the **Recurring quote name**.
5. Click **Update** to save and publish the changes.

   You can discard the changes by clicking **Cancel**.

Pausing or Restarting a Recurring Quote

You can pause and restart recurring quotes from the recurring quote details page.

Prerequisites

You must be a member of both the **Category Buyer** and **Material Manager** groups.

To pause or restart recurring quotes created by other users, you must be a member of the **Material Administrator** group along with the **Category Buyer** and **Material Manager** groups.

Context

When you publish a recurring quote, the schedule is activated. However, if you want to pause the schedule, you can deactivate the recurring quote. A paused recurring quote can be restarted by activating it.

To pause or restart a recurring quote:

Procedure

1. From the product sourcing dashboard, click the **Recurring quotes** widget.

   The **Recurring quotes** page appears.
2. Search for or navigate to the recurring quote that you want to pause or restart and click the **>** button.

   The recurring quote event page appears. The page shows the **Deactivate** button if the event is active and the **Activate** button if the event is inactive.
3. Click the **Deactivate** or **Activate** button to pause or restart the event as required.

Sourcing Projects and Events Administration

This topic includes information for sourcing project, sourcing event, and simple RFx event administrators.

Configuring Simple RFx Event for Materials Templates

Prerequisites

You must be a member of the global **Template Creator** group or the template project's **Templates Creator** team to create or edit templates.

Context

When a project owner creates an event, they get to select the event type. When they do, the event templates that appear for that event type are those that match the event type specified here when the template was created.

Before you can use an event template you have to change its status from **Draft** to **Active**. This is called "publishing" it. If you get a message that you cannot publish your template until you correct all the errors, edit the template and go to the **Summary** page. The errors appear in a gray box at the top of the page.

Procedure

1. On the dashboard, click **Manage** > **Templates**.
2. From the **Documents** tab on the **Templates** page, click **Sourcing Templates**.
3. Click **Simple Event** and choose either **Open** or **Copy**.
4. Return to the template project page when you have configured the template fields as needed.
5. Choose **Properties** > **Action** > **Publish**.

Next Steps

You can now create simple RFx events for materials using the published template.

Creating an Event Template for Estimated Lead Time Values

Prerequisites

To create or edit templates, you must be a member of one of the following:

- **Customer Administrator** group (access to this group must be approved by SAP Ariba)
- **Template Creator** group
- **Template Creators** group on the **Team** tab of the template project

Context

The term for lead time can be added in the event template.

> **Note**
>
> If the lead time term is not in the event template or the quote request, the estimated lead time is not copied to the lead time.

Procedure

1. On the dashboard click **Manage** > **Templates**.
2. From the **Documents** tab on the **Templates** page, click **Sourcing Templates**.
3. Select the template and choose either **Open** or **Copy**.
4. Before publishing the template, go to the **Content** tab.
5. **Edit** the **Line Item**.
6. In the **Item Terms** table, click **Add** > **Term**.
7. From the **Source Type: Global** dropdown on the **Available Terms** tab, choose the **Lead Time** term.
8. Return to the template project page when you have configured the template fields as needed.
9. Choose **Properties** and then **Action** > **Publish**.

Results

You can now create events with estimated lead time values using the published template.

Creating an Event Template with Custom Product Sourcing Fields

Custom fields are new fields that are mapped in product sourcing to item material master data from SAP ERP. The custom fields appear in the sourcing event when they are included in the event template.

Prerequisites

To create or edit templates, you must be a member of one of the following:

- **Customer Administrator** group (access to this group must be approved by SAP Ariba)
- **Template Creator** group
- **Template Creators** group on the **Team** tab of the template project

The custom fields should already be mapped. For information on mapping custom fields, see Creating Maps for Custom Product Sourcing Fields [page 100].

Context

Custom fields that are enabled to be included in quotes can be added to event templates. You can add them as terms in the line item for sourcing projects. The term is populated with the value from the custom field in product sourcing.

Custom fields that are enabled to be included in outbound PIR messages can be added to event templates.

> → Tip
>
> SAP Ariba supports the mapping of terms (standard terms and custom terms) of type **Quantity** with external fields of type **Integer**. This compatibility ensures a seamless data exchange between the sourcing events created using the template and the integrated external system.

Procedure

1. On the dashboard, click **Manage** > **Templates**.
2. From the **Documents** tab on the **Templates** page, click the expand and collapse arrow next to **Sourcing Templates**.
3. Select an RFP template and choose either **Open** or **Copy**.
4. Before publishing the template, go to the **Content** tab.
5. **Edit** the **Line Item**.
6. If the custom term is not in the **Item Terms** table, click **Add** > **Term** and do one of the following:
   - Add the term from the **Available Terms** tab.
   - Add the term on the **New Term** tab.
7. Select the term and click **Edit**.
8. Verify that the following external field mappings match the value of the **Field ID** for the custom term in product sourcing. Change the value if it does not match.
   - **External Field Mapping**
   - **External system field mapping for PIR**

   The predefined term with the correct mapping and data type must be in the template for the term to be created in the event.

   See Creating Maps for Custom Product Sourcing Fields [page 100] for information on the **Field ID** when creating maps for custom fields.
9. Return to the template project page when you have configured the template fields as needed.
10. Choose **Properties** and then **Action** > **Publish**.

Results

You can now create events with custom fields and their values using the published template.

Custom fields appear with their values from the item on the **Content** page of the sourcing event.

If you created custom fields for PIR, you can now send the fields and their values in outbound PIR messages using the published template.

Configuring Sourcing Templates to Accept Supplier Quotes as Contracted or Estimated Prices Without Creating a PIR

You can configure SAP Ariba Sourcing templates to accept supplier prices as either estimated price, contracted price, or contracted price with PIR.

Prerequisites

Your administrator must enable the following parameter:

- **Enable option to accept supplier pricing as estimated or contracted in sourcing templates** (`Application.AQS.RFX.EnableConfigurablePriceAcceptanceType`).

You must be a member of the global **Template Creator** group or the template project's **Templates Creator** team to create or edit templates.

Only a representative from SAP Ariba Customer Support can enable and configure the default project type functionality. By default, this functionality is disabled. This functionality applies to all users with the permission to create sourcing projects.

> ⚠ Restriction
>
> By default, SAP Ariba Sourcing makes new RFP templates competitive and sets the rule **Must participants improve their bids** to **Yes**. If you want the ability to add envelopes to your RFP template, you must set the rule **Must participants improve their bids** to **No**.

> ⓘ Note
>
> Creating templates is a separate feature. To enable this feature, please have your Designated Support Contact log a service request and an SAP Ariba Customer Support representative will follow up to complete the request.

Context

Template authors can choose to delegate or restrict the ability for event owners to configure the option to accept supplier pricing. For example, template authors can configure the sourcing template to only accept supplier pricing as Estimated.

When you create event templates, you can choose to make the template for a **Quick Project** or a **Full Project**. A **Quick Project** is a sourcing event such as an **RFI**, **RFP**, or an **Auction** (forward or reverse). If you choose to create a **Quick Project**, then you will create a project containing only an event template. A **Full Project** enables you to create a project with process management capabilities turned on.

When a project owner creates an event, they get to select the event type. When they do, the event templates that appear for that event type are those that match the event type specified here when the template was created.

Procedure

1. On the dashboard, click **Manage** > **Templates**.
2. On the **Documents** tab on the **Templates** page, find the sourcing template you want to configure.
3. Click the template name and choose **Action** > **Open**.
4. On the **Overview** tab, click the template name in the **Documents** section.
5. Choose **Action** > **Edit**.
6. In the **Project Owner Actions** section, choose one of the following for the **Allow users to accept a supplier's price as:** rule:
   - Accept prices as estimated prices
   - Accept prices as contracted prices
   - Accept prices as contracted prices and accept PIR
7. Choose to delegate, hide, or make the **Allow users to accept a supplier's price as:** rule read-only.
8. Click **Exit** and return to the sourcing project page.
9. Choose **Actions** > **Publish** to publish the template.

Configuring the Use of Supplier Currency in Follow-On Documents

SAP Ariba Strategic Sourcing Suite supports the use of supplier currency in contract workspaces and in the integration of follow-on documents such as purchase info records (PIRs), purchase orders, and outline agreements with external systems.

When the self-service parameter **Enable the use of supplier currency in contracts and integrations of follow-on documents with external systems**(`Application.ACM.UseSupplierBidCurrencyForContractsAndIntegration.Enabled`) is set to **Yes**, supplier currency is used for cost information in contract workspaces and follow-on documents such as PIRs, purchase orders, and outline agreements. Buyers can override this when creating contracts after awarding and in the scenario to create follow-on documents other than PIRs in the event currency. PIRs are created in the supplier currency.

When the parameter is set to **No**, only the event currency can be used in contract workspaces and follow-on documents.

For more information, see Enable the use of supplier currency in contracts and integrations of follow-on documents with external systems in the Intelligent Configuration Manager Parameters Reference.

Money and Percentage Terms as Custom Condition Types in Purchase Info Records

You can add money and percentage terms as custom condition types in purchase info records.

When you add a money or percentage term as a custom condition type in the purchase info record, you must ensure that the name you specify for the term in the **External system field mapping for PIR** field is correctly mapped to the corresponding term in the external system.

You can also add custom condition types per validity period and scale in purchase info records. When a money or percentage term that you are adding to a purchase info record as a custom condition type is part of a pricing condition, the term inherits the validity period and scale terms from the pricing condition that it is part of. If the term is not part of a pricing condition, the default validity period and scale terms, if applicable, are added to the term.

You can add a money or percentage term as custom condition types in purchase info records by setting the **Add as custom condition in PIR** option in the **Edit term** page to **Yes**. The **Add as custom condition in PIR** option appears for money and percentage terms only if **External system field mapping for PIR** is configured with a custom value.

Adding Money and Percentage Terms as Custom Condition Types in Purchase Info Records

From a sourcing template, you can add money and percentage terms as custom condition types in purchase info records.

Prerequisites

To create or edit templates, you must be a member of one of the following groups:

- **Customer Administrator** group (access to this group must be approved by SAP Ariba)
- **Template Creator** group
- **Template Creators** group on the **Team** tab of the template project

Context

You can add multiple money and percentage terms as custom condition types in purchase info records.

Procedure

1. On the dashboard, click **Manage** > **Templates**.

2. From the **Documents** tab on the **Templates** page, click the expand and collapse arrow next to **Sourcing Templates**.
3. Select a sourcing template and choose either **Open** or **Copy**.
4. Go to the **Content** tab.
5. Select a **Line Item** and click **Edit**.
6. If the money or percentage term that you want to add as custom condition type in purchase info records is not in the **Item Terms** table, click **Add** > **Term** and do one of the following:
   - Add the term from the **Available Terms** tab.
   - Add the term on the **New Term** tab.
7. Select the term and click **Edit**.
8. Select **Other** for the **External system field mapping for PIR** and specify a custom value.

   > **Note**
   >
   > The value you specify in this field appears as the name of the custom condition type in the purchase info record. Ensure that the name you enter here is correctly mapped to the corresponding term in the external system with which you integrate the purchase info record.

   After you configure the **External system field mapping for PIR** to a custom value, the **Add as custom condition in PIR** option is enabled.
9. Set the **Add as custom condition in PIR** to **Yes**.
10. Return to the template project page when you have configured the template conditions as needed.
11. Choose **Properties** and then **Action** > **Publish**.

Capturing Detailed Cost Breakdowns

A cost breakdown is a consolidated list of indirect and direct expenses which buyers use to calculate the cost of an assembled product. Cost breakdowns are used throughout the manufacturing stages such as prototype and production, enabling part owners to track the pricing between stages.

Deleting a Cost Component from a Cost Group in the Cost Breakdown Page [page 281]

Copying Cost Group Information from the Cost Breakdown Page [page 282]

About Capturing Detailed Cost Breakdowns

You can capture cost breakdown information directly in SAP Ariba Sourcing using cost group functionality. You can create multiple cost groups, enabling suppliers to enter pricing information and custom content as part of the sourcing event. You can then transfer the cost breakdown information from the sourcing event directly to product sourcing.

Detailed cost breakdown functionality includes:

- RFx cost breakdowns
- BOM cost breakdowns
- Cost breakdown only events
- Ability for suppliers to add line items
- Ability to share final costs with suppliers and contract manufacturers
- Ability for buyers to define a formula for the **Price** term in the RFP event template based on the cost group total values
- Ability for buyers to configure multiple cost elements as rollup terms
- Ability for buyers to add cost groups to analytical reports
- Ability for buyers and suppliers to export an event with cost groups to an external system for analysis
- Ability for buyers to import the cost group content of a line item to an event from an Excel file
- Ability for suppliers to submit bids for an event with cost groups by using an Excel file

You can use the **Cost breakdown** user interface to view and edit the cost group content of a line item. You can also copy cost group information across line items in the **Cost breakdown** page. To access the **Cost breakdown** page, you must select the **Open cost breakdown for this line item** icon ( ) in classic sourcing events. For more information, see Using the Cost Breakdown Page [page 46].

> **Note**
>
> If you've enabled guided sourcing in your site, you can access the **Cost breakdown** page by using the **View cost breakdown** icon ( ) in guided sourcing events.

Prerequisites

- The **Allow Cost Groups to capture detailed Cost Breakdowns** in the **Bidding Rules** section of the sourcing event template must be set to **Yes**.
- To configure a formula for the **Price** term of an RFP event template, **Can project owner create formulas** in the Project Owner Actions section of the sourcing event template must be set to **Yes**.
- To view cost breakdown of material items in the **View Item 360** page, the `ITEM_360_SECTION.ENABLE_CLEAN_SHEETS` parameter must be enabled. SAP Ariba sets this option for you. For more information, see Seeing the Material 360° View [page 197].

- To use cost elements in the line-item formula of an RFP event template, set the **Rollup results in section summary** option for the cost element to **Yes**.

Restrictions

- Cost group functionality is only available in SAP Ariba Sourcing RFP events and in SAP Ariba Contracts.
- The number of cost groups allowed for analytical reporting is limited to 10.
- You cannot copy cost group information across line items when the line items use different bidding currencies.

Defining Cost Groups Terms

You can create cost group terms in sourcing event line items. Cost group terms have a display name, unique ID, and can have a formula for calculating the rolled up cost. You can then add cost terms to the cost groups.

Cost groups are a collection of cost element definitions and corresponding cost element values. Cost element values are entered by suppliers during the sourcing event. The supplier provided prices are then rolled up to the total cost group term. Cost group terms can also be used in custom formulas.

Defining Cost Elements as Rollup Terms

You can configure multiple cost elements of a cost group in an RFP event template as section rollup terms. Section rollup terms can be configured with a formula. The section rollup term value will be added to the total value of the cost group.

> **Note**
>
> By default, the Extended Price item term is configured as a section rollup term.

When multiple cost elements are configured as section rollup terms, then the buyer must manually choose a section rollup term from the **Cost Sheet Rules** > **Rollup Term** dropdown. The value of the section rollup term selected in the **Rollup Term** dropdown will be added to the total value of the cost group. For more information, see Adding Rollup Term Value to Total Cost Group Value [page 278].

You can use cost elements of a cost group in the line-item formula of a sourcing event. You can configure cost elements of a cost group as section rollup terms and use the rollup value of the cost element in the line-item formula of the sourcing event.

For example, consider a sourcing event template configured with two cost groups, Raw Materials Cost and Logistics Cost. Each of these cost groups are defined with a cost element, Labor Cost. To analyze the total labor cost incurred for a line item, buyer can set Labor Cost in each of these cost groups as section rollup terms and configure a formula at the line-item level to calculate the total labor cost incurred by adding the rollup values of the Labor Cost cost element from Raw Material Cost and Logistics Cost cost groups.

When you configure a formula for a line item, the cost elements configured as section rollup terms are displayed in the **Item Terms** table. You can insert the cost elements from the **Item Terms** table to the formula expression.

For more information, see Adding Cost Elements as Section Rollup Terms [page 278] and Adding Cost Elements to a Line-Item Formula [page 279].

Exporting Cost Group Content

You can export the cost group content of a line item in an RFP event to an Excel file, when the event is in the Draft status. You can select the line item for which you want to export the content to an Excel file and select the **Import Cost Groups** button in the RFP event to download the content. The downloaded Excel file displays the line item in the first sheet and the individual cost group content is displayed in separate sheets.

> ⓘ Note
>
> Suppliers can export the cost group content of a line item in an RFP event to add the pricing information for the cost groups.

Importing Cost Group Content

You can import the cost group content of a line item for an RFP event from an Excel file. You can import the Excel file with the cost group content to SAP Ariba Sourcing using the **Import Cost Groups** button available in the **Content** tab of the RFP event to upload the content. After the import is successful, the cost groups as defined in the Excel file will be visible in the **Content** page.

> ⓘ Note
>
> Suppliers can export an RFP event with cost groups from SAP Ariba Sourcing, add the pricing information for the cost groups to the Excel file, and then import the Excel file using the **Import Cost Groups** button in the RFP event page to upload the file.

cXML Changes

To send a document with cost group information to an external system, the corresponding cXML document must include the cost group information in an extrinsic element. The cost group information includes the total cost and documentID of the cost groups.

For example, if a line item consists of Raw Material Costs and Logistic Costs as the cost groups, then the excerpt of the cXML document that contains the cost group information is as follows:

```
<Extrinsic name="Terms">

<!-- class: ariba.sourcing.integration.networkrfq.QuoteItemExtrinsicEncode -->

<Extrinsic name="Raw Material Costs">
<Money currency="USD">2087.00</Money>
<DocumentInfo documentType="CostGroup" documentID="Doc15102"/>
</Extrinsic>
```

```
<!-- class: ariba.sourcing.integration.networkrfq.QuoteItemExtrinsicEncode -->

<Extrinsic name="Logistics Costs">
<Money currency="USD">724.00</Money>
<DocumentInfo documentType="CostGroup" documentID="Doc15103"/>
</Extrinsic>

</Extrinsic>
```

About Capturing Detailed Cost Breakdowns in Guided Sourcing

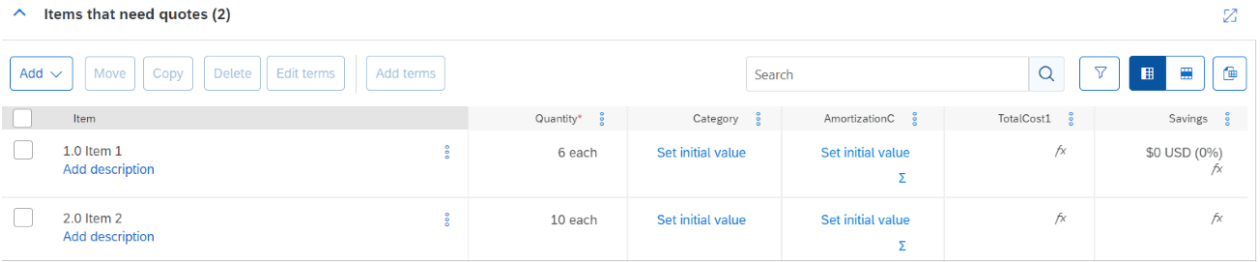
When guided sourcing is enabled for SAP Ariba Strategic Sourcing Suite, you can create a guided sourcing event with the cost group terms by using a sourcing event template that has been configured with cost group terms. For more information, see Topics about creating guided sourcing events.

To capture cost breakdowns in guided sourcing events:

- Your site must be enabled to use the guided sourcing functionality. For more information, see Setting up guided sourcing.
- You must be a member of the **Category Buyer** group to create and run guided sourcing events. For more information about creating guided sourcing events, see Managing events with guided sourcing.
- You must use a sourcing event template with the cost group terms defined while creating a guided sourcing event in SAP Ariba Strategic Sourcing Suite. The **Allow Cost Groups to capture detailed Cost Breakdowns** in the **Bidding Rules** section of the sourcing event template must be set to **Yes**.

You can view, set, and modify the cost group information of guided sourcing events through the **Cost breakdown** page. The **Cost breakdown** page helps you to easily navigate between different line items, suppliers, and cost groups. You can also monitor and analyze the supplier bids for cost groups including the cost components added by suppliers for cost groups in the **Cost breakdown** page. For more information, see Using the Cost Breakdown Page [page 46].

You can access the **Cost breakdown** page through the **View cost breakdown** icon (Σ) or the clickable link to set the initial value for the defined cost groups in the **Item that need quotes** section of the guided sourcing event in the draft state. You can also access the **Cost breakdown** page through the **View cost breakdown** icon (Σ) available for the cost groups in the **Item that need quotes** panel of the guided sourcing monitor event page.



Detailed Cost Breakdowns for Contract Line Item Documents (CLIDs)

You can create a CLID that contains multiple cost groups. These cost groups contain cost elements that you can define in the cost group template. You can also set the cost elements as section rollup terms in the cost group template. Cost components are the materials or line items added to cost groups. Buyers and suppliers can view, edit, delete, or add cost components from the **Cost Breakdown** popup.

Prerequisites

- Ensure that the following rules in the **Document** > **Actions** > **Line items Document** tab of the Contract Workspace (Procurement) template are set to **Yes**.
  - **Allow Cost Groups to capture detailed Cost Breakdowns** - To capture detailed cost breakdowns in the CLIDs
  - **Allow Formulas** - To configure formulas for the line items in the CLIDs
- To use cost elements in the line-item formula of a Contract Workspace (Procurement) template, the **Rollup results in section summary** option for the cost element must be set to **Yes**.
- To enable cost break analysis (CBA) for contract line items document (CLIDs), have your Designated Support Contact log a service request (SR). An SAP Ariba Customer Support representative will follow up to complete the request.

Restrictions

You cannot do the following for CLIDs with cost breakdown analysis (CBA) fields:

- Export or import templates
- Export or import excel sheets
- Comparison of cost groups in CLID

cXML Changes

To send a document with cost group information to an external system, the corresponding cXML document must include the cost group information in an extrinsic element. The cost group information includes the total cost and documentID of the cost groups.

For example, an excerpt of the cXML document that contains the cost group information is as follows:

```
<Extrinsic name="p1">
    <Money></Money>
        <DocumentInfo documentType="CostGroup" documentID="Doc20122"/>
</Extrinsic>
<!-- class: ariba.sourcing.contracts.ContractItemExtrinsicEncode -->
<!-- class: ariba.sourcing.integration.networkrfq.CostBreakDownExtrinsicEncode -->
```

```
<Extrinsic name="Raw material costs">
    <Money currency="USD">242.00</Money>
    <DocumentInfo documentType="CostGroup" documentID="Doc20123"/>
</Extrinsic>
```

Related Information

Adding Cost Group Terms to Contract Line Items Documents (CLIDs) [page 269]
Adding a Cost Component to a Cost Group in the Cost Breakdown Page of the Contract Line Items Documents (CLIDs) [page 271]
Adding Cost Elements as Section Rollup Terms in Contract Line Item Documents (CLIDs) [page 272]
Adding Cost Elements to a Line-Item Formula in Contract Line Item Documents (CLIDs) [page 273]
Sending the Contract Line Items Documents (CLIDs) for Negotiation [page 274]

Adding Cost Group Terms to Contract Line Items Documents (CLIDs)

Use this procedure to add cost group terms to contract line items documents.

Prerequisites

- Ensure that the following are set to **`Yes`**:
  - The **`Application.ACM.ContractLineItemsDocument.Enabled`** ICM parameter - To use the CLIDs
  - The **Allow Cost Groups to capture detailed Cost Breakdowns** rule in the **Document** > **Actions** > **Line items Document** tab of the Contract Workspace (Procurement) template - To capture detailed cost breakdowns in CLIDs
- Create a contract line items document as described in Creating Contract Line Items Documents (CLIDs) in Managing Projects, Teams, Documents, and Tasks.

Context

SAP Ariba contract workspaces can contain CLIDs. A CLID, or line items document, specifies the terms of the contract, or the goods or services acquired by the contract. Each line item includes pricing information and terms, such as price and quantity.

Procedure

1. If the line items document is not already open, open it by clicking the document name and choosing **Action** > **Open**.
2. Do one of the following:
   - Edit the line item by clicking the check box to the left of its name and choose **Edit** > **Content**.
   - Click the line item name and click **Action** > **Edit**.
3. In the **Item Terms** section, choose **Add Term**.
4. On the **Add Term** page, click **New** > **Term**.
5. On the **New Term** tab, enter the name of the cost term.
6. Choose **Cost Group** from the **Answer Type** pull-down menu.
7. Configure the remaining options for the new term.
8. Click OK to create the new cost group term.
9. Click the **Open cost breakdown for this line item** icon () to configure the cost group term you just created.

   > **Note**
   >
   > The open cost group view icon hover text in the RFP event is renamed to Enter cost breakdown for this line item.

10. Click the name of the cost group term name and click **Add** > **Line Item**. SAP Ariba displays the **Add Item** page.
11. Create line items and terms as required.
12. Click **Done**

Next Steps

Members of the **Integration Protected Fields Editor** group can modify item master data after it is added to an event or line items document. However, modifying item master data can cause validation errors. If you attempt to send the line items document contents back to the external system, the external system might reject it.

Publish the document when you have finished adding data. Only the published contents of line items documents are sent to external systems.

Adding a Cost Component to a Cost Group in the Cost Breakdown Page of the Contract Line Items Documents (CLIDs)

Use this procedure to add a cost component to a cost group in the cost breakdown page of the contract line items documents.

Prerequisites

- The contract workspace template must be configured with cost groups that contain cost elements.
- The **Allow Cost Groups to capture detailed Cost Breakdowns** rule in the **Document** > **Actions** > **Line items Document** tab of the Contract Workspace (Procurement) template must be set to **Yes**.
- The contract event must pick up templates that have cost breakdown analysis enabled and not from the default CLID templates. To ensure this,
  - The **Enable line item selection for integration** rule in the contract workspace template must be set to **No**
  - The **External System** field must be empty

Context

A cost breakdown is a consolidated list of indirect and direct expenses which buyers use to calculate the cost of an assembled product.

Procedure

1. Open the Contract Workspace (Procurement) event in your SAP Ariba Sourcing application.
2. Enter the details and select the CLID cost breakdown template. Click **Create**.
3. In the contract workspace that is created, open the document under the **Documents** section.
4. Click the **Open cost breakdown for this line item** icon () that appears for the cost groups of a line item.
5. The **Cost breakdown** page appears.
6. Select a line item from the **Item** dropdown.
7. The configured cost groups for the selected line item appear in the form of tabs.
8. Select the cost group tab for which you want to add a new item.
9. A table with the cost components, cost group terms, total component cost, and total price of cost group details is displayed along with the **Add** and **Delete** buttons.
10. Click **Add**. The Add Cost component for the cost group screen appears.
11. Enter the details of the cost component and click **Add**.

Adding Cost Elements as Section Rollup Terms in Contract Line Item Documents (CLIDs)

Use this procedure to add cost elements as section rollup terms in contract line item documents.

Prerequisites

The **Allow Cost Groups to capture detailed Cost Breakdowns** rule in the **Document** > **Actions** > **Line items Document** tab of the Contract Workspace (Procurement) template must be set to **Yes**.

The Contract Workspace (Procurement) template must not be in the **Published** state.

Context

This section assumes that the contract workspace template is configured with cost groups that contain cost elements.

When a buyer configures a formula for a line item, the cost elements configured as section rollup terms are displayed in the **Contents** table. Buyers can insert the cost elements from the **Contents** table into the formula expression.

This feature helps the buyers to analyze the cost breakdown of a line item at a more granular level by allowing buyers to use the rollup value of the cost element in the line-item formula of the contract line items documents (CLIDs).

> **Note**
>
> You cannot rollup cost elements like normal terms. To view the cost groups in the section rollup summary, create a custom formula. The custom formula must contain all the cost elements that are configured as section rollup terms. Then add the custom formula to the section rollup summary.

Procedure

1. In the Contract Workspace (Procurement) template, click the **Documents** tab.
2. Click **Action** > **Open** under the **Documents** section.
3. In the **Item Terms** table, click the cost element that needs to be configured as a rollup term, and choose **Action** > **Edit**.
4. Select **Yes** for the **Rollup results in section summary** option.
5. Click **OK** > **Done**.

Adding Cost Elements to a Line-Item Formula in Contract Line Item Documents (CLIDs)

Use this procedure to add cost elements to a line-item formula in contract line item documents.

Prerequisites

- The **Allow Cost Groups to capture detailed Cost Breakdowns** in the **Document** > **Actions** > **Line items Document** tab of the Contract Workspace (Procurement) template must be set to **Yes**.
- To use cost elements in the line-item formula of a Contract Workspace (Procurement) template, the **Rollup results in section summary** option for the cost element must be set to **Yes**.

Context

This feature allows you to add cost elements to a line-item formula in the contracts template.

A cost group can consist of multiple cost elements. You can configure multiple cost elements as section rollup terms by defining a formula. After you configure a cost element as a section rollup term and select the section rollup term from the **Contents** section, the value of the section rollup term is added to the total value of the cost group. This section assumes that the Contract Workspace template consists of cost groups with cost elements.

Procedure

1. In the Contract Workspace (Procurement) template, click the **Documents** tab.
2. Click **Action** > **Open** under the **Documents** section.
3. In the **Item Terms** section, do one of the following:
   - Create a new term and add a formula by selecting **Add** > **Formula**. Enter a name for the formula.
   - Select an existing term for which you want to add cost elements in the formula expression, and click **Edit**.
4. In the **Formula** field, add a formula for the term. You can insert the desired cost elements from the **Contents** table into the formula expression.
5. Click **Done**.

Sending the Contract Line Items Documents (CLIDs) for Negotiation

Use this procedure to send the contract line items documents for negotiation.

Prerequisites

The **Allow Cost Groups to capture detailed Cost Breakdowns** in the **Document** > **Actions** > **Line items Document** tab of the Contract Workspace (Procurement) template must be set to **Yes**.

Context

You can send the contract line items documents (CLID) in the Contract Workspace template for review with any of the buyer organization users. The buyer organization users may or may not be part of the contract workspace. The template must not be in the **Published** state for the negotiation to happen. The negotiation happens before the contract is sent to the supplier.

Procedure

1. In the **Documents** section of the Contract Workspace (Procurement) template, click **Action** > **Negotiation**.
2. Enter the details of the negotiation task.
3. Select the reviewers whom you want.
4. Click **OK**.

Results

The reviewer can see the negotiation task under the **Tasks** section of the template.

Enabling Cost Groups in RFPs

Prerequisites

You must be a member of the global **Template Creator** group or the template project's **Templates Creator** team to create or edit templates.

> **Note**
>
> Cost group functionality is only available in SAP Ariba Sourcing RFP events and in SAP Ariba Contracts.

Procedure

1. In Common Actions, click **Manage** > **Templates**.
2. Choose one of the following:
   - Click the name of the RFP template you want to edit in the **Documents** section and choose **Action** > **Edit**.
   - Copy an existing RFP template.
   - Create a new RFP template:
     - From the **Actions** menu, choose **Create** > **Template**.
     - From the **Select Project Type for Template** page, click **Sourcing Project** and click **OK**.
     - Provide a name and a description for the template project.

     > **Note**
     >
     > By default, SAP Ariba Sourcing makes new RFP templates competitive and sets the rule **Must participants improve their bids** to **Yes**. If you want the ability to add envelopes to your RFP template, you must set the rule **Must participants improve their bids** to **No**.
3. In the **Bidding Rules** section, choose **Yes** for the **Allow Cost Groups to capture detailed Cost Breakdowns** rule.

   > **Note**
   >
   > The Allow Price Breakup bidding rule in the **Bidding Rules** section of RFP event templates is renamed to **Allow Cost Groups to capture detailed Cost Breakdowns**.
4. Publish the template.

Adding Cost Group Terms to RFP Event Templates

Prerequisites

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)

Context

SAP Ariba Sourcing transforms suppliers' bids into your costs using a formula you define. SAP Ariba Sourcing models the adder and multiplier terms of the formula using cost terms, a type of line item term.

Procedure

1. On the dashboard, click **Manage** > **Templates**.
2. Create a new RFP template or choose an existing RFP template to edit.
3. Do one of the following:
   - Edit the line item by clicking the check box to the left of its name and choose **Edit** > **Content**.
   - Click the line item name and click **Action** > **Edit**.
4. In the **Item Terms** section, choose **Add** > **Term**.
5. On the **Add Term** page, click **New Term**.
6. On the **New Term** tab, enter the name of the cost term.
7. Choose **Cost Group** from the **Answer Type** pull-down menu.
8. Configure the remaining options for the new term.
9. Click **OK** to create the new cost group term.
   SAP Ariba displays the **Content** page.
10. Click the **Open cost breakdown for this line item** icon () to configure the cost group term you just created.

> **Note**
>
> The open cost group view icon hover text in the RFP event is renamed to Enter cost breakdown for this line item.

11. Click the name of the cost group term name and click **Add** > **Line Item**.
    SAP Ariba displays the **Add Item** page.
12. Create line items and terms as required.
13. Click **Done**.

Configuring Price as a Formula

Prerequisites

To configure a formula for the **Price** term:

- The **Allow Cost Groups to capture detailed Cost Breakdowns** in the Bidding rules section of the sourcing event template must be set to **Yes**.
- The **Can project owner create formulas** in the Project Owner Actions section of the sourcing event template must be set to **Yes**.

Context

Create formulas from the **Content** section of an event project or template. To create formulas as part of a sourcing event project, the event template has to allow the project owner to create templates. If this is not allowed in a project template, the Formula option does not appear. This topic assumes you are in the **Content** section of a sourcing event project.

The formula for the **Price** term can be a summation of the created cost groups along with the other defined terms for the line item.

Procedure

1. In the RFP event template of the sourcing project, click the **Content** tab.
2. Select the line item template, and choose **Action** > **Edit** .

   The **Edit Item** page appears.
3. Select the checkbox for the **Price** term.
4. Click **Make Formula** from the **Specify** dropdown.
5. In the **Item Terms** section, click the **Price** term, and choose **Add** > **Formula** .
6. Enter a name for the formula.
7. In the **Formula** field, add a formula for the **Price** term.
8. Click **Done**.

Adding Cost Elements as Section Rollup Terms

Prerequisites

The **Allow Cost Groups to capture detailed Cost Breakdowns** in the **Bidding Rules** section of the sourcing event template must be set to **Yes**.

Context

A line item in a sourcing event can contain multiple cost groups. These cost groups can be defined with cost elements. This section assumes that the sourcing event template is configured with cost groups that contain cost elements.

Procedure

1. In the RFP event template, click the **Content** tab.

   A section with the configured cost groups for a line item appears.
2. Click the **Open cost breakdown for this line item** () icon of the cost group.

   The cost group template page appears.
3. Click the cost group template name and choose **Action** > **Edit**.
4. In the **Item Terms** table, click the cost element which needs to be configured as a rollup term, and choose **Action** > **Edit**.
5. Select **Yes** for **Rollup results in section summary**.
6. Click **OK**.
7. Click **Done**.

Adding Rollup Term Value to Total Cost Group Value

Context

A cost group can consist of multiple cost elements. You can configure multiple cost elements as section rollup terms by defining a formula. When a buyer configures a cost element as a section rollup term, and selects the

section rollup term in the **Cost Sheet Rules** section, the value of the section rollup term is added to total value of the cost group. This section assumes that the RFP event template consists of cost groups with cost elements.

Procedure

1. In the RFP event template, click the **Content** tab.

   A section with the configured cost groups for a line item appears.
2. Click the **Open cost breakdown for this line item** () icon of the cost group.

   The cost group template page appears.
3. Click the cost group template name and choose **Action** > **Edit**.
4. In the **Item Terms** table, click the cost element which needs to be configured as a rollup term, and choose **Action** > **Edit**.
5. Add a formula for the cost element in the **Formula** field.
6. Select **Yes** for **Rollup results in section summary**.
7. Click **OK**.

   The new section rollup term is displayed in the **Cost Sheet Rules** > **Rollup Term** dropdown of the cost group template.
8. Select the section rollup term from the **Rollup Term** dropdown to add the section rollup term value to the cost group total value.
9. Click **Done**.

Adding Cost Elements to a Line-Item Formula

Prerequisites

- The **Allow Cost Groups to capture detailed Cost Breakdowns** in the **Bidding Rules** section of the sourcing event template must be set to **Yes**.
- To use cost elements in the line-item formula of an RFP event template, set the **Rollup results in section summary** option for the cost element to **Yes**.

Context

Add cost elements to a line-item formula in the sourcing event template. This topic assumes that the cost elements that you want to use in the line-item formula are configured as a section rollup terms in the respective cost group template.

Procedure

1. In the RFP event template of the sourcing project, click the **Content** tab.
2. Select the line item, and choose **Action** > **Edit**.

   The **Edit Item** page appears.
3. In the **Item Terms** section, do one of the following:
   - Create a new term and add a formula by selecting **Add** > **Formula**.
   - Select an existing term for which you want to add cost elements in the formula expression, and click **Edit**.
4. If you are creating a new term, enter a name for the formula.
5. In the **Formula** field, add a formula for the term. You can insert the desired cost elements from the **Item Terms** table in to the formula expression.
6. Click **Done**.

Enabling a Cost Group for Analytical Reporting

Context

To run analytical reports for cost groups, cost groups of a line item must be enabled in the Administration page of SAP Ariba Sourcing.

> ⓘ Note
>
> By default, the number of cost groups allowed for analytical reporting is limited to 10.

Procedure

1. In your SAP Ariba application, select **Manage** > **Administration** > **Reporting Manager** > **Custom attributes report admin**.
2. In the Reporting global attributes table, select the checkbox for the cost group in the **Reportable** column.
3. Click **Enable for reporting**.

Adding a Cost Component to a Cost Group in the Cost Breakdown Page

Procedure

1. Open the event in your SAP Ariba application and select the **Content** tab.
2. Click the **Open cost breakdown for this line item** () icon that appears for the cost groups of a line item.

   The **Cost breakdown** page appears.
3. Select a line item from the **Item** dropdown.

   The configured cost groups for the selected line item appear in the form of tabs.
4. Select the cost group tab for which you want to add a new item.

   A table with the cost components, cost group terms, total component cost, and total price of cost group details is displayed along with the **Add** and **Delete** buttons.
5. Click **Add**.

   The **Add Cost component for cost group** screen appears.
6. Enter the name of the cost component in the **Name** field.
7. Click **Add**.

Deleting a Cost Component from a Cost Group in the Cost Breakdown Page

Procedure

1. Open the event in your SAP Ariba application and select the **Content** tab.
2. Click the **Open cost breakdown for this line item** () icon that appears for the cost groups of a line item.

   The **Cost breakdown** page appears.
3. Select a line item from the **Item** dropdown.

   The configured cost groups for the selected line item appear in the form of tabs.
4. Select the cost group tab from which you want to delete a cost component.

   A table with the cost components, cost group terms, total component cost, and total price of cost group details is displayed along with the **Add** and **Delete** buttons.
5. Select the check box for the cost component you want to delete.

6. Click **Delete**.

Copying Cost Group Information from the Cost Breakdown Page

Procedure

1. Open the event in your SAP Ariba application and select the **Content** tab.
2. Click the **Open cost breakdown for this line item** ( ) icon that appears for the cost groups of a line item.

   > **Note**
   >
   > If you've enabled guided sourcing in your site, you can access the **Cost breakdown** page by using the **View cost breakdown** icon ( ) in guided sourcing events.

   The **Cost breakdown** page appears.
3. Select a line item from the **Item** dropdown.
   - A message is displayed along with a dropdown for you to select the line item from which you want to copy the cost group information to the line item selected in the **Item** dropdown.

     > **Note**
     >
     > This message is displayed only for a few minutes upon selecting a line item in the **Item** dropdown. The message is displayed everytime you switch between line items in the **Item** dropdown.
   - The configured cost groups for the selected line item appear in the form of tabs.
4. To copy the cost group information, do one of the following:
   - (Optional) In the message which is displayed, select the line item from which you want to copy the cost group information to the item selected in the **Item** dropdown and click **Copy**.

     The cost group information will be copied to the selected line item.
   - Click the **Copy cost details** icon.
5. If you select the **Copy cost details** icon, the Copy cost details popup appears. In the Copy cost details popup, do the following:
   1. Select one of the following options in the **From** section:
      - **All cost groups**: Copies all cost groups of the selected line item to the other line items.
      - **Current cost group**: Copies the cost group information of the currently selected cost group of the line item.
      - **Selected cost group**: Provides a list of cost groups to select. You can select the cost groups that you want to copy across line items.

2. Select the line items to which you want to copy the cost group information to in the **To** dropdown.

> **Note**
>
> - You can select a maximum of 10 line items to which you want to copy the cost group information.
> - The existing cost group information of the selected line items will be overwritten.

6. Click **Copy**.

Product Sourcing Audit Records

The **Audit Record** page displays significant actions performed by users, system administrators, and the system.

You can filter audit record search results by type, start date, and end date. To view the **Audit Record** page, sign in to the SAP Ariba Administrator and select **Product Sourcing Manager** > **Audit Record**.

Audit records contain the following information for each related action:

- The user ID of the person that performed the action.
- The name of the action.
- A description of the action.
- If available, the IP address associated with the action.
- The time the action occurred.

The following table lists the available audit record types and the associated action that generates them:

Audit record type	Action that generates the audit record
AUTHENTICATION	This audit record type does not generate an entry on the **Audit Record** page.
EXCEPTION	This audit record type does not generate an entry on the **Audit Record** page.
AML_PULL	Manufacturers or suppliers approved to provide a given item, as specified in the Approved Manufacturer Parts List (AMPL) master data, are imported.
ITEM_MASTER_PULL	Item master data is imported. Item master data includes information about items, such as item names, descriptions, and part or material numbers. Item master data excludes data for approved manufacturers.
ASSIGN_OWNER	A BOM or material is assigned to an owner.
ITEM_PRICE_UPDATE	Contracted prices are updated after a user accepts the price in a simple RFx event or creates a PIR from a PIR scenario in SAP Ariba Sourcing.
EDIT_AML_SPLIT	An AML split is updated or changed.
EDIT_PRICE	Estimated pricing for parts and materials is updated. SAP Ariba allows you to update the estimated pricing for parts without assigned AML suppliers and materials with missing pricing.
ITEM_PINNING	A BOM or material is assigned to a plant or program.

Audit record type	Action that generates the audit record
	Note The ability to assign programs to BOMs is not available when the BOM_V2_ENABLED parameter is enabled. The BOM_V2_ENABLED parameter is enabled by default for all sites deployed after January 2020. For more information about the BOM_V2_ENABLED parameter, see Supported Bill of Materials (BOM) Types [page 160].
EDIT_BOM_SPLIT	The split percentage for a BOM is updated.
INSPECTOR	An activity is performed using the Inspector tool.
REPLACE_PLACEHOLDER	Placeholder parts are replaced by actual parts when the actual part arrives in a newer version of the BOM.
PLANT_PULL	Contract manufacturer master data is imported.

Prerequisites

You must be a member of the **Materials Administrator** or **Customer Administrator** group to view product sourcing audit records.

Frequently Asked Questions about Product Sourcing

Provides answers to some of the frequently asked questions about the product sourcing features of SAP Ariba Strategic Sourcing Suite.

What are the prerequisites for enabling the product sourcing functionality?

You must have a valid SAP Ariba Strategic Sourcing Suite account before enabling product sourcing functionality.

Can I start using the product sourcing functionality as soon as it is enabled?

No, you need to complete the initial configuration after enabling the product sourcing functionality.

For more information about configuration steps and options, see Workflow for product sourcing use cases.

Where can I find more information on product sourcing functionalities?

For information on product sourcing functionalities, see SAP Ariba product sourcing guide.

For information on creating and managing SAP Ariba Sourcing events, see Event management guide.

For information on RFQ and award integration, see RFQ and award integration with SAP Ariba Sourcing.

What is the master data needed for product sourcing functionality?

The master data required depends on your use case. It may be only materials or materials with BOM. There is also associated master data such as plant, material group, etc.

What are widgets?

Widgets or action tiles show the most important information about your daily activities and tasks. They are present in a row at the top of the dashboard. There are some standard widgets provided, such as BOMs missing contract MFRs, BOMs missing programs, Materials with missing prices, etc. You can also create custom widgets based on advanced search criteria.

For information about available widgets, see Product Sourcing dashboard action tile reference.

For information on creating and customizing widgets, see How to create and manage widgets on the product sourcing dashboard.

What are the BOM and Material filters available for widgets?

In the material data table, the following columns are available as filters:

- Item ID
- Item Name
- Category
- Programs
- Contract MFR
- Owner
- Supplier
- Part Type

In the BOM data table, the following columns are available as filters:

- BOM ID
- BOM Name
- Programs
- Contract MFR
- Owner

What are Contract Manufacturers?

Contract Manufacturers are manufacturers who assemble or manufacture products and components for a firm, in outsourced manufacturing.

What are AML suppliers?

An AML supplier is a manufacturer or supplier that is an approved provider for a given item, as specified in the Approved Manufacturer Parts List (AMPL) master data.

Why can I not see my uploaded material data on SAP Ariba Sourcing?

The material data that is uploaded to SAP Ariba Sourcing becomes visible after it is indexed and integrated in SAP Ariba Sourcing. This indexing is done by scheduled tasks which run every 12 hours. You will have to wait for the next run to be able to see the data.

Where can I check if the BOM has been uploaded successfully?

The Message Queue in the Product Sourcing Manager Area on the Administration tab shows the current status of the BOM upload process.

For more information on managing BOM uploads, see How to monitor and manage BOM uploads.

What are the different status messages for BOM upload?

Some of the status messages for BOM upload are CREATED, PRE_PROCESSING, INVALID, PROCESSING, SUCCESS, FAILURE, etc.

For the list of BOM upload status descriptions, see Status of BOM upload service processing.

Are BOM uploads reflected immediately in the system?

BOM uploads are governed by the BOM upload service, which runs every 5 minutes. You will be able to see the uploaded BOM after the next run.

Can I create BOMs without specifying the plant?

Yes, you can create BOMs without specifying the plant if the parameter DEPLOYMENT_MODE.PLANT_ASSIGNMENT_REQUIRED is disabled; if you upload a BOM without specifying a plant when this parameter is disabled, a placeholder plant is assigned to the BOM. When this parameter is enabled, plant assignment is mandatory.

Can I use the product sourcing functionality without BOM?

Yes, you can use the product sourcing functionality without BOM. The product sourcing functionality operates in three modes: BOM-based product planning and sourcing, Materials-only sourcing, and Hybrid mode. Materials-only sourcing does not require BOM.

Where can I see all events/PIRs that are created?

You can find all events from which PIRs are created on the material 360° view. The material 360° view provides material details such as sourcing information, contracts, PIR activity, AML suppliers, and a price trend graph. The same page also contains a widget to display the PIR number.

What is Supplier Split Percentage for an item? What does Missing Supplier Splits signify?

Supplier Split Percentage or AML Split defines the proportionate share of an item (material) procurement from various AML suppliers. You can procure an item for a given plant from multiple suppliers. AML Split can take values between 0 to 100. If the sum of AML Split percentage among suppliers for a plant is not equal to 100, then the item is marked as Missing Supplier Splits.

What is an Item Group?

An item group enables you to define multiple assemblies that contain alternative parts and can be used instead of each other. It offers the flexibility of alternatives. Assemblies that have the same item group number can be used interchangeably or on split basis, based on various factors such availability, price, and lead time.

What is BOM Split Percentage? What does Missing BOM Splits signify?

BOM Split Percentage defines the allocation of items (materials) within the same item group for a given plant. You can use assemblies that have the same item group on a proportionate basis. If the sum of BOM Split percentage among alternate BOMs is not equal to 100, then the item is marked as Missing BOM Splits.

What is the difference between estimated price and contracted price? Why do I need to store both estimated price and contracted price?

Estimated price is the price you provide to the suppliers to indicate the expectations in terms of cost. Contracted price is the final price quotation that suppliers provide to you in a bidding event.

Contracted price is used for calculating the cost. If no contracted price is available for an item, the estimated price is used for cost calculation. Estimated price gives the approximation for planning purposes.

When is an item marked as missing price?

An item is marked as missing price if the contracted price and estimated price information for the item are missing for any of the suppliers for the number of months specified by the UI.MISSING_PRICE_MONTH_INTERVAL parameter.

What happens if a BOM is uploaded multiple times in the same day?

If a BOM is uploaded multiple times in a day, the latest update overrides previous updates on the same day; that is, only the most recent update appears in the versioning. This is because material data is versioned only for updates made on different dates. Multiple versions on the same day are not supported in material information.

How can I delete a component within a BOM?

The BOM update feature uses the ValidToDate field to flag components or assemblies for deletion. To delete a component, set its ValidToDate to a past date and upload the BOM CSV file.

> **Note**
>
> Removing components from the BOM CSV file and uploading the file will not delete the components from the BOM.

Which change scenarios are supported in BOM updates?

- Adding a new component or assembly to an existing assembly with valid values of ValidFromDate and ValidToDate.
- Deleting an existing component or assembly from an assembly by providing ValidToDate as a past date.
- Updating the details of existing components and assemblies.

What is the difference between an assigned plant and a derived plant?

An assigned plant is directly assigned to an item. A derived plant is not directly assigned to the item but is inherited from upper level elements (parent assembly or BOM). The Assignment Type field on the Item Assignment Information page shows the type of plant; assigned plants are marked as Explicit and derived plants are marked as Inherited.

What does the ItemNodeNumber field in a BOM upload indicate?

ItemNodeNumber uniquely identifies components that are at the same level within an assembly.

> **Note**
>
> The same material with different ItemNodeNumber values at the same level within an assembly will be treated as different components.

What does the ChangeNumber field in a BOM upload indicate?

The ChangeNumber field enables you to track changes made to the BOM. Along with ChangeNumber, the ChangeValidFromDate, ChangeReason, and ChangeDescription fields in BOM upload provide additional information about the change.

What is Level in a BOM upload? What do the different values of Level mean?

Level indicates the hierarchical position of an entry in a BOM. Level 1 indicates the top BOM. The level increases with depth, and the highest level indicates a part or material that is at a leaf node. In between the leaf node and the top BOM, there could be multiple sub-assemblies.

How often is the BOM cost calculated?

The BOM cost is calculated once every day by a scheduled Total Cost Calculation task. This task calculates the rollup cost of all the assemblies and stores it in the item cost summary table.

What does costing level denote? What are the different values it can contain?

Costing level for an assembly denotes whether child component costs are considered for cost roll up or not. Costing level can have two values- 'Yes' or 'No'. When costing level is set to 'Yes', the individual costs of child components are not considered for cost roll up; only the item cost is considered. When it is set to 'No', the item cost and the child component costs are rolled up.

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