



SAP Ariba 

Feature at a Glance

Subcontracting process improvements for component inventory

Franz Uhr, SAP Ariba
Target GA: November, 2019

CONFIDENTIAL

Feature at a Glance

Ease of implementation

 Low touch / simple

Geographic relevance

 Global

Introducing: Subcontracting process improvements for component inventory

Customer challenge

Buyers cannot force suppliers to send component consumption data in real-time or enter consumed components in ship notice items related to subcontracting purchase orders. In addition buyers cannot prevent suppliers from using specific batches of component inventory.

Meet that challenge with SAP Ariba

With this feature, buyers and suppliers can filter components and batches by both the inventory quantity and the available quantity. In addition, buyers can impose one or more additional requirements for component inventory: deactivate individual parts batches to prevent suppliers from using them, require all ship notice items to contain consumed components, and require real-time consumption of selected purchase order items.

Experience key benefits

This feature improves ease of use for buyers and suppliers for managing component inventories and introduces logic to increase compliance to better control inventories and consumptions in a subcontracting process.

Solution area

SAP Ariba Supply Chain Collaboration

Implementation information

This feature is **automatically on** for all customers with the applicable solutions and is ready for immediate use.

Prerequisites and Restrictions

Buyers must be entitled for SAP Ariba Supply Chain Collaboration solution.
Suppliers must have a trading relationship with a buyer entitled for the Supply Chain collaboration solution.

Feature at a Glance

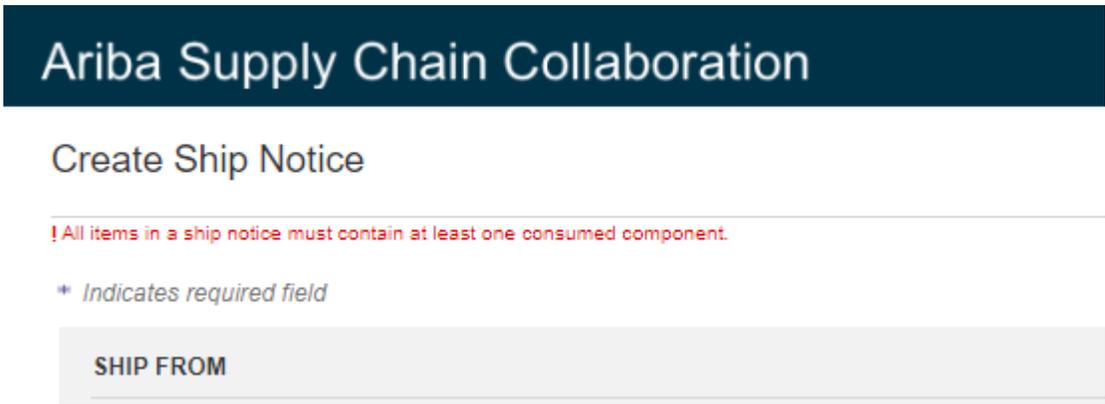
Introducing: Subcontracting process improvements for component inventory

Buyers can deactivate selected component batches so that suppliers cannot consume them anymore. Buyers can require all items in a ship notice to contain at least one consumed component, either with real-time consumption or in the ship notice itself (if the buyer does not require real-time consumption). In addition to the component inventory batch quantity buyers and suppliers can see **consumed** and **available** quantity per component batch.

In order to activate this logic this feature adds transaction rule **Require all items in a ship notice to contain at least one consumed component.**

Require that if suppliers confirm service orders, they do so at the child line level. ⓘ	<input type="checkbox"/>
Allow suppliers to create a component receipt for multiple multi-tier ship notices. ⓘ	<input type="checkbox"/>
Require all items in a ship notice contain at least one component consumption.	<input checked="" type="checkbox"/>

Supplier gets an error message if he/she tries to submit an ASN without having added at least one consumed component.



Feature at a Glance

Introducing: Subcontracting process improvements for component inventory

Supplier User Interface Changes

On the [Inbox](#) → [Extended collaboration](#) → [Component inventory](#) page the feature introduces

- **Consumed** Quantity and **Balance** Quantity columns

The screenshot displays the Ariba Supply Chain Collaboration interface. The top navigation bar includes 'Ariba Supply Chain Collaboration', user information 'Sourabh Kothari', and 'Help Center'. The main navigation menu has 'INBOX' selected. Below the navigation, the 'Extended Collaboration' section is active, with 'Component Inventory' selected. A search filter is visible. The main content area shows a table titled 'Component Inventory (15)'. The table has columns for Customer Batch, Part #, Batch #, Reference Number, Document Id, Expiry Date, Customer, Location, Last Updated, Qty(Unit), Consumed Qty, and Balance Qty. The last two columns, 'Consumed Qty' and 'Balance Qty', are highlighted with a red box. The table contains two rows of data.

Customer Batch	Part #	Batch #	Reference Number	Document Id	Expiry Date	Customer	Location	Last Updated	Qty(Unit)	Consumed Qty	Balance Qty
FUBATCH1					1 Jan 1970	LOB APJ Buyer 1			10 (EA)		10
					1 Jan 1970	LOB APJ Buyer 1			18 (EA)		18

Feature at a Glance

Introducing: Subcontracting process improvements for component inventory

Buyer User Interface Changes

On the **Outbox** → **Extended collaboration** → **Component inventory** page the feature introduces

- Status search filter with choices **All**, **Enabled** and **Disabled**.
- **Consumed** Quantity and **Balance** Quantity columns
- **Active** and **Deactive** buttons. Click one of these buttons to change the selected records to activate or deactivate status, respectively

The screenshot shows the Ariba Network interface for Component Inventory. The top navigation bar includes 'HOME', 'INBOX', 'OUTBOX', 'QUALITY', 'PLANNING', 'CATALOGS', 'SUPPLIER ENABLEMENT', 'ADMINISTRATION', 'REPORTS', 'UPLOAD/DOWNLOAD', and 'MORE...'. The 'OUTBOX' tab is active, and the 'Extended Collaboration' sub-tab is selected. The 'Component Inventory' page features a search filter section with fields for Supplier, Supplier part no., Customer part no. (set to PROC-FU-B1), and Customer Batch #. A 'Status' dropdown menu is highlighted with a red box, showing options: All, Enabled, and Disabled. Below the search filters is a table titled 'Component Inventory (3)'. The table has columns: Customer Batch, Part #, Batch #, Customer, Location, Buyer Part #, Qty(Unit), Consumed Qty, and Balance Qty. The 'Consumed Qty' and 'Balance Qty' columns are highlighted with a red box. The first row is selected, showing 'FUBATCH2' with a quantity of 8 (EA), 8 Consumed Qty, and 8 Balance Qty. Below the table are 'Active' and 'Deactive' buttons, also highlighted with a red box.

	Customer Batch	Part #	Batch #	Customer	Location	Buyer Part #	Qty(Unit)	Consumed Qty	Balance Qty
<input checked="" type="checkbox"/>	FUBATCH2			LOB APJ Buyer 1		PROC-FU-B1	8 (EA)	8	8
<input type="checkbox"/>	FUBATCH1			LOB APJ Buyer 1		PROC-FU-B1	10 (EA)	10	10
<input type="checkbox"/>				LOB APJ Buyer 1	Atlanta2	PROC-FU-B1	10 (EA)		10

Feature at a Glance

Introducing: Subcontracting process improvements for component inventory

Supplier User Interface Changes

On the [Inbox](#) → [Extended collaboration](#) → [Component inventory](#) page this feature adds **Consumed** Quantity and **Balance** Quantity columns

When the view **View all component inventory** checkbox is checked, records with a Balance quantity of 0 are displayed in the Component inventory table, otherwise those are hidden.

The screenshot shows the SAP Component Inventory interface. At the top, there are navigation tabs: Multi-Tier Orders, Component Inventory (selected), Component Shipments, Return Shipments, Consignment Movements, Multi-Tier Shipments, and Multi-Tier Items to Ship. Below the tabs is a search filter section with a dropdown arrow and the text 'Search Filters'. The search filters include: Customer (empty), Supplier part no. (empty), Customer part no. (PROC-FU-SMI), Batch # (empty), and Customer location (empty). A checkbox labeled 'View All Component Inventory' is checked and highlighted with a red box. Below the search filters are 'Search' and 'Reset' buttons. The main content area is titled 'Component Inventory (2)' and contains a table with the following columns: Customer Batch, Part #, Batch #, Customer, Location, Buyer Part #, Qty(Unit), Consumed Qty, and Balance Qty. The table has two rows of data. The 'Balance Qty' column is highlighted with a red box, and the values '0' are visible in both rows. Below the table is a pagination control showing '1' of 1 items.

Customer Batch	Part #	Batch #	Customer	Location	Buyer Part #	Qty(Unit)	Consumed Qty	Balance Qty
	FUABC		LOB APJ Buyer 1	Atlanta2	PROC-FU-SMI	null (null)		0
			LOB APJ Buyer 1	Atlanta	PROC-FU-SMI	null (null)		0

Feature at a Glance

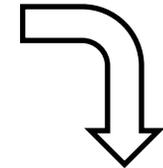
Introducing: Subcontracting process improvements for component inventory

If a purchase order line item has the cXML attribute **requiresRealTimeConsumption** set to yes, this feature disables the editable fields of the item in the **Consumed Components** section of the **Orders and Releases** → **Ship Notice** → **Create Ship Notice**.

This action prevents suppliers from using the ship notice to report consumption.

Example cXML:

```
<ItemOutIndustry planningType="MTS" requiresRealTimeConsumption="yes"></ItemOutIndustry>
<Batch productionDate = "2013-06-10T14:37:31-07:00" expirationDate = "2014-06-10T14:37:31-07:00" originCountryCode = "US">
  <BuyerBatchID>BUYBATCHIDW02</BuyerBatchID>
  <SupplierBatchID>SUPBATCHIDW02</SupplierBatchID>
  <PropertyValuation>
    <PropertyReference>
      <IdReference identifier = "CHEMICAL" domain = "ID"/>
      <IdReference identifier = "1" domain = "VersionID"/>
      <IdReference identifier = "MEDICINE_PROPERTIES" domain = "PropertyDefinitionClassReferenceID"/>
      <IdReference identifier = "1" domain = "PropertyDefinitionClassReferenceVersionID"/>
    </PropertyReference>
    <ValueGroup>
      <IdReference identifier = "2" domain = "ID"/>
    </ValueGroup>
  </PropertyValuation>
</Batch>
```



mandating real-time consumption

Items to Ship (2)

Priority	Sub-Priority	Inventory Level	Need By ↑	Customer Part No.	Description	Order Number	Item	Schedule Line No.	Schedule Line Change	Commitment Level	Customer Location / Desc
▼ Ship To: Atlanta 867 1 300 Peach tree street South , ATLANTA , GA , 30310 , United States (1)											
<input type="checkbox"/>			11 Sep 2019 1:00:00 AM	PROC-FU-001	FUs product	4500130589	10	1			
▼ Ship To: FromPlant1 123 Anystreet , Sunnyvale , CA , 94089 , United States (1)											
<input checked="" type="checkbox"/>			21 Sep 2019 10:00:00 AM	BuyPARTID001	Laptop 4 PK	subContractPO062519wFU	1	1			01f FromPlant1
↳ <input type="button" value="Create Ship Notice"/> <input type="button" value="Create Quality Notification"/> !Unable to create the ship notice. Buyer LOB APJ Buyer 1 requires real-time consumption for line item 1 in document subContractPO062519wFU.											