

SAP Ariba 📈

Feature at a Glance Inventory reservation for SAP ERP-integrated sites

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Introducing: Inventory reservation for SAP ERP-integrated sites

Customer challenge

Today, SAP Ariba does not offer visibility of what a company keeps in stock. This limits the scope of most SAP Ariba implementations to non-stocked, indirect goods purchases and services, and excludes buying processes and categories that typically include stocked items, such as MRO, spare parts, safety equipment. This may lead to unnecessary spend and limited adoption.

Meet that challenge with SAP Ariba

Most organizations prefer to fulfill procurement requirements from the inventory first before opting to purchase externally. In SAP Ariba Buying and SAP Ariba Buying and Invoicing, for SAP ERP-integrated sites, buyers can check and reserve material items that are present in the inventory before initiating the external purchasing process.

Experience key benefits

With this feature, customers can expand their procurement coverage into the areas of MRO. The functionality include visibility and reservation of items kept in inventory.

Solution area

- SAP Ariba Buying
- SAP Ariba Buying and Invoicing

Implementation information

To have this feature enabled, please have your Designated Support Contact (DSC) submit a **Service Request (SR)**.

For detailed steps, please refer to the next slide.

Prerequisites and Restrictions

- This feature is only available for SAP integrated sites
- The feature is only available in Core Procurement, not Guided Buying, in this release.
- Storage locations must be loaded
- Change Requisitions cannot add new inventory items

Feature at a Glance **Overview:** Inventory reservation for SAP ERP-integrated sites

In SAP Ariba Buying and SAP Ariba Buying and Invoicing, for sites integrated with SAP ERP, buyers can now get visibility of, and reserve material items that are available at storage locations in their organization.

With this feature, customers can expand their procurement coverage into the areas of MRO, safety equipment, and spare parts, providing a single user experience for all types of goods. By providing visibility into inventory, customers can also expect to lower overall costs.

Key features:

- Mix of catalog and inventory items on the same request
- Support for storage locations
- Inventory availability visibility in catalog
- Search by Material Number
- Store Room Managers can convert inventory requests to supplier purchase orders





Workflow for setting up MRO catalogs



The above steps describe the high level process. Please refer to the feature documentation release guide for detailed steps.

Searching for inventory items

In the regular Catalog view, when searching for items, the user can find both supplier catalog items as well as inventory items. The Material Number for inventory items are included in the search, and the user can further filter the results by;

- Plant,
- In Stock, or
- Storage Locations

Inventory items and their availability (across all storage locations) are visible in search results alongside with regular supplier catalog items.



Catalog item showing inventory details



Adding inventory items to a Requisition

When adding an item to a requisition, the user specify from which Storage Location(s) the items should be reserved and shipped - see 1. When the user click "Select Quantity", a popup show

- Available quantity at each location is listed
- The user can define multiple locations to reserve the items from
- Each selected Storage Location will create separate Inventory Line Items on the Requisition

Note: If the user select more items than what available, a warning message is presented – see 2

HP Sur Sur Ava	Laptop oplier: JCN Technologies oplier Part #: 271 ilable in: 10 Day(s)	<u>€90.00 EUR</u> ♂ 2,00 S
H₽ ₩	Laptop	Select Ard to Favor
HP Laptop		
Sut	Supplier: JCN Technologies pplier Part #: 271	€90.00 EUR / each C 2,000 in Stock
#	Reserve items from storage locations	× 1
Product Description	Warning: The quantity you reserved is more than the stoc 5 storage locations found in (300026) Plant. You can res	k on hand.
HP Laptop	Find storage location by name or description	Q
Product Specifications	0001 Bangalore	Can't fetch stock Qty: 0
Price: Supplier:	0002 Chennai	2000 in stock Qty: 10
Available in: Material Group:	0003 Hubli	Can't fetch stock Qty: 0
Material Number: Plant:	0004 Gulbarga	0 in stock Qty: 10
IN STOCK:	Total Oby Basanyad 20	Cancel

Differentiation of catalog items and inventory items added to shopping cart

	AW Optio	ons			Q 🛉	ealm: ERPn2nTeSan				
	HOME PROCUREMENT INVOICING CATALOG MORE V Recent V Manage									
Separate grouping for Catalog and Inventory items added to shopping cart	Shop By Category Books, Forms and Printed Media > Computers and IT equipment > Machinery and Tools > Maintenance, Repair and Operations > Miscellaneous > Office Products > Raw Materials > Services > Shop By Supplier Supplier >	All Categories	Search by part #, supplier name, or keyword	CIPR386 Inventory items (2) Sony Laptop Catalog items (1) EPrint Technologies (ACP, Fulfillment FT) \$6.67 USD / each	✓ Q 3 x €279.00 EUR 15 x €279.00 EUR 15 x €279.00 EUR /iew Cart Proceed to Checkout support net to y (way - Ref FL) \$99.50 USD / each	I Non-Catalog Item				
	Purchasing Organization	Recently Viewed Supplie JCN Technologies Computer Data Input Computers and IT equ Hardware Accessories View All	EPrint Technologies (ACP, Fulfillr Books, Forms and Pri Charts or Maps or At Printed Media View All	nent FT) Supplier RPC 02 (AN - RCP FT) Computer Data Input Computers and IT equ Hardware Accessories View All	Supplier RPC 06 (Manual Suppli Computer Data Input Computers and IT equ Hardware Accessories View All	()				

Review cart screen



Requisition with Catalog Items and Inventory Items

A new section **Line Items From Inventory** is visible on the Requisition, below the Line Items section – see 1 and 2.

Following additional attributes are copied from the catalog for Inventory items:

- Material Number
- Plant
- Storage Location

This information is passed to the ERP when the reservation is done.

Note:

Approvers and requesters who belong to the "**Store Room Manager**" group (new) can select Line Items From Inventory and **Order from Supplier** - see 3. This action will *move* selected lines from Line Items From Inventory section to Line Items section, and subsequently generate a purchase order instead of a reservation document.



Actions on Inventory Items

Each Inventory line will require the user to enter a **Required Date** (reservation date).

Actions available are:

- Copy
- Update Required Date see 1
 - Selecting multiple items are possible
- Edit see 2
 - Only single line can be selected
 - Quantity can be edited
 - Required Date is required
 - Access to Accounting details
- Delete

ine Items	From Inventory						
ems Total						Hide Details	
/ No. †	Type Description	Qty Unit	Price	Required Date	Amount		
1	图 HP Laptop	10 each	€90.00 EUR		€900.00 E	UR Fx	
	Material Number: 000000	000000000000000000000000000000000000000					
	Storage Location: 0002	° U	pdate Required Dat	e			
2	第 HP Laptop	10 e	Required date for the se	Elected Inventory une	E	UR Fx	
	Material Number: 000000	00000000030:	Required Date.	Fn, 13 Dec, 2019			
	Plant: 300026 Storage Location: 0004	5		Jpdate	Cancel		
	opy	om sappuer					
Up	odate Required Date						
Ed							
atalog I	tem						
	Quantity:	10					
	Material Number:	000000000000000000000000000000000000000	000301				
	Required Date:	Fri, 13 Dec, 20	019				
	Plant:	300026					
	Storage Location:	0002					
ccountir	ng - by Line Iter	n					
Ad	ccount Assignment: *	K (Cost cente	r) 🗸				
	Account Type:	Cost Center	\checkmark				
	Bill To: *	3000 (New Yo	rk)	\sim			
	GL Account:	0000404000 (Consumables consun	ned) 🗸			
	Cost Center:	0000004120 (IT Service)	~			
			· /	* 1			

Reservation document

Once the Requisition has been submitted *and fully approved*, the Catalog lines create Purchase Orders subsequently sent to the suppliers, and Inventory lines create Reservation documents in the ERP:

- Each Reservation document can contain many line items, grouped by accounting and Required date, which are header fields of the Reservation document
- The status of the Reservation document is "Reserving" in SAP Ariba until a confirmation is received from the ERP, at which time the status is changed to "Reserved".
- The ERP Reservation ID returned is also visible.
- The Reservation document can be viewed from the line item directly - see 1, or from the Orders tab - see 2.

A reserved item can be cancelled by selecting "Cancel Reservation" - see 3.

 The status of the Reservation document is "Cancelling" until a confirmation is received, at which time the status is changed to "Cancelled"

1 Iter	n Total												Hide Details
No.	† Type	Reservation	Description	Qty	Unit	Price	R	eservation Date		Amount			
1	T	RES67	HP Laptop	1	each	€90.00 EUR	V	led, 27 Nov, 2019		€90.00 EUR Fx			Detail
	Materia	al Number: 0000	0000000000301										
	RES6	7 - Reservat	ion1										
-	← Baci	k.											Cancel Reservation
	Line It	Reservatio St Reservation ems	n ID: RES67 Title: Reservation1 atus: Reserved Date: Wed, 27 Nov,	2019									
	No. †	ERP Line	Number	Mate	erial Numb	er		Quantity	Unit C)f Measure	Storage Lo	ocation	Plant
	1	El		0000	00000000	000301		1	each		0001		300026
S S	250 - Re Copy	Orders Rece	ipts History								Status: App	proved	
)rde	'S (0)											Π	
	Order ID 1		Version	Date Crea	ited	Sta No items	atus	Title	Supplier		Total		
lese	vations (1)										п	
	Reservation	n ID †	ERP Reservation ID		Time Cr	eated	т	tle	Status	Reservation	Date		
				120									

Searching and Reporting

An option to search for **Requisitions** containing inventory items has been added – see 1

Limitations:

- There's no search for Reservation documents
- You cannot search Requisitions by ERP Reservation ID

Search Filters				Search Options \checkmark
Title:		Non-Catalog Item (any lin item	e Yes No Either	
ID:		Order ID (any line item):	
Commodity Code:	(select a value) [select]	Requeste	(select a value) [select \checkmark]	
Date Created:	Custom ~	Statu	No Choice	~
	From: Fri, 22 Nov, 2019	Supplier (any line item	: (select a value) [select]	
•	To: Fri, 6 Dec, 2019	Total Cos		
Has Inventory Items:	Yes No Either	_	EUR 🗸	
		Sear	ch Reset	Save Search
earch Results		Found 46 items		m ×
Type ID	Title	Status Date Created 1	Total FM Pc	sting Date
CIPR324	InventoryRervation	Approved 27 Nov 2019	\$0.00 USD Tue, 2	6 Nov, 2019
CIPR325	InventoryRervation	Approved 27 Nov 2019	\$0.00 USD Tue, 2	6 Nov, 2019

Storage locations

Storage Locations are required to define where the inventory items are located. Each location belong to a Plant. Each Plant can have multiple storage locations.

The storage location has following properties;

- SlocID
- NAME
- Address
- SAPPlantId

The storage locations are imported through Import Storage Locations task.



Web services

Web service	Description
Export Reservation Request Asynchronously	Used to send the reservation request from either SAP Ariba Buying, or SAP Ariba Buying and Invoicing, to SAP ERP for confirmation.
Import Reservation Status Asynchronously	Used to send the reservation success or failure notification from SAP ERP to the buying solutions from SAP Ariba.
Export Reservation Deletion Request	Used to send the reservation cancellation confirmation from SAP ERP to the buying solutions from SAP Ariba.
Import Reservation Deletion Status Asynchronously	Used to send the reservation cancellation request from the buying solutions from SAP Ariba to SAP ERP for confirmation.

Implementation Steps

- 1. The following parameters must be enabled for your site, which SAP Ariba support shall do.
 - Application.Purchasing.EnableInventoryReservation

Specifies whether users can view details of and reserve inventory items from within the SAP Ariba Procurement solutions. It also specifies whether the Inventory Service to process the details of inventory items from SAP ERP systems is enabled. A scheduled job on the Inventory Service periodically checks the SAP ERP system (through the SAP Ariba Cloud Integration Gateway, add-on for SAP ERP) for the details of inventory items and synchronizes the data between the two systems.

- This functionality specified by this parameter is applicable only to sites integrated with SAP ERP
- The default value of this parameter is No.

Application.Catalog.IS.TenantConfig

Specifies the inventory service related configuration settings for the tenant in a JSON format with the following parameters: "tenantId", "freq", and "catalogQualifier". "tenantId" is the ID of the tenant, "freq" indicates the frequeny in minutes of the schedule job that synchronizes inventory data, and "catalogQualifier" specifies the catalogs that contain inventory items.

Application.Common.EnablePlantBasedDefaultingForSAP

- 2. Configure the SAP Ariba Cloud Integration Gateway to integrate catalog data from an SAP ERP to Ariba Network seamlessly.
- 3. Configure the SAP Ariba Cloud Integration Gateway to support checking the stock of inventory items and making reservations.
- 4. Following custom catalog fields (supplemental attributes) to enable inventory related information to be consumed and displayed in the catalog user interface should be created. This will be done by SAP Ariba support.
 - Plant, Storage Locations, Material Number, Material Group, Stock Identifier
- 5. Run the Import Plant to Purchase Organization Mapping data import task to map plants to purchase organizations.