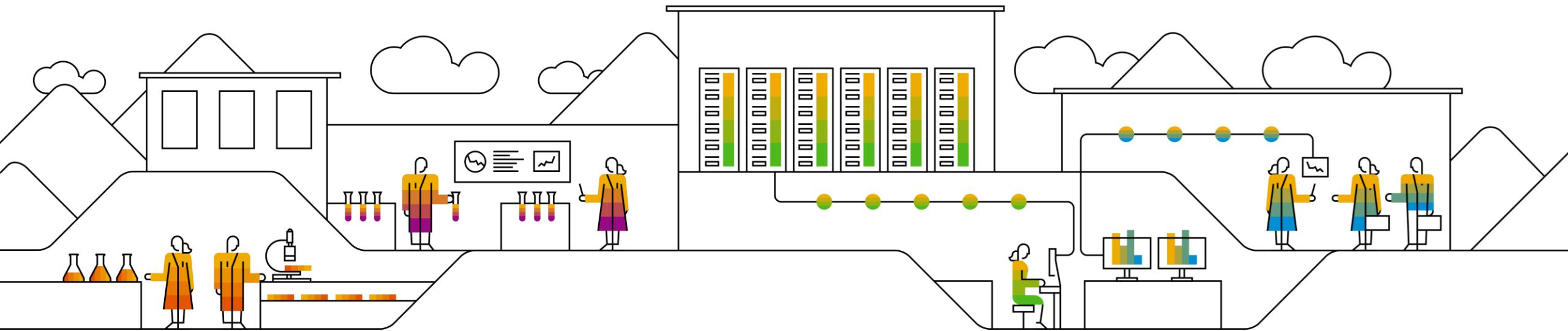




SAP Business Network for Supply Chain

Multi-Tier Collaboration

Supplier Guide

Rev: 26th Feb 2024

Public



Agenda

Multi-Tier Collaboration

- Introduction
- Multi-Tier Collaboration Documents
- Multi-Tier Collaboration Workflow
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- Copy Order Visibility
- Copy Order Details
- View Copy Order Conformation
- View Copy ASN
- Create Copy ASN
- Create Component Receipt

Multi-Tier Order Collaboration

In this Chapter You Will Learn About ...

- ... the benefits of using Multi-Tier Order functionality
- ... the Multi-Tier documents and their description
- ... the Multi-Tier Order documents workflow

Introduction

A multi-tier supply chain involves the ABB and multiple suppliers collaborating together to produce a finished product.

Multi-tier order collaboration provides end-to-end visibility and collaboration features for a multi-tier ordering process. It allows supply chain partners to view copies of orders, order confirmations, and ship notices (with financial fields masked) and create component receipts after receiving shipments. OEM buyers can manage their copy documents and view component shipments and receipts from tiered suppliers.

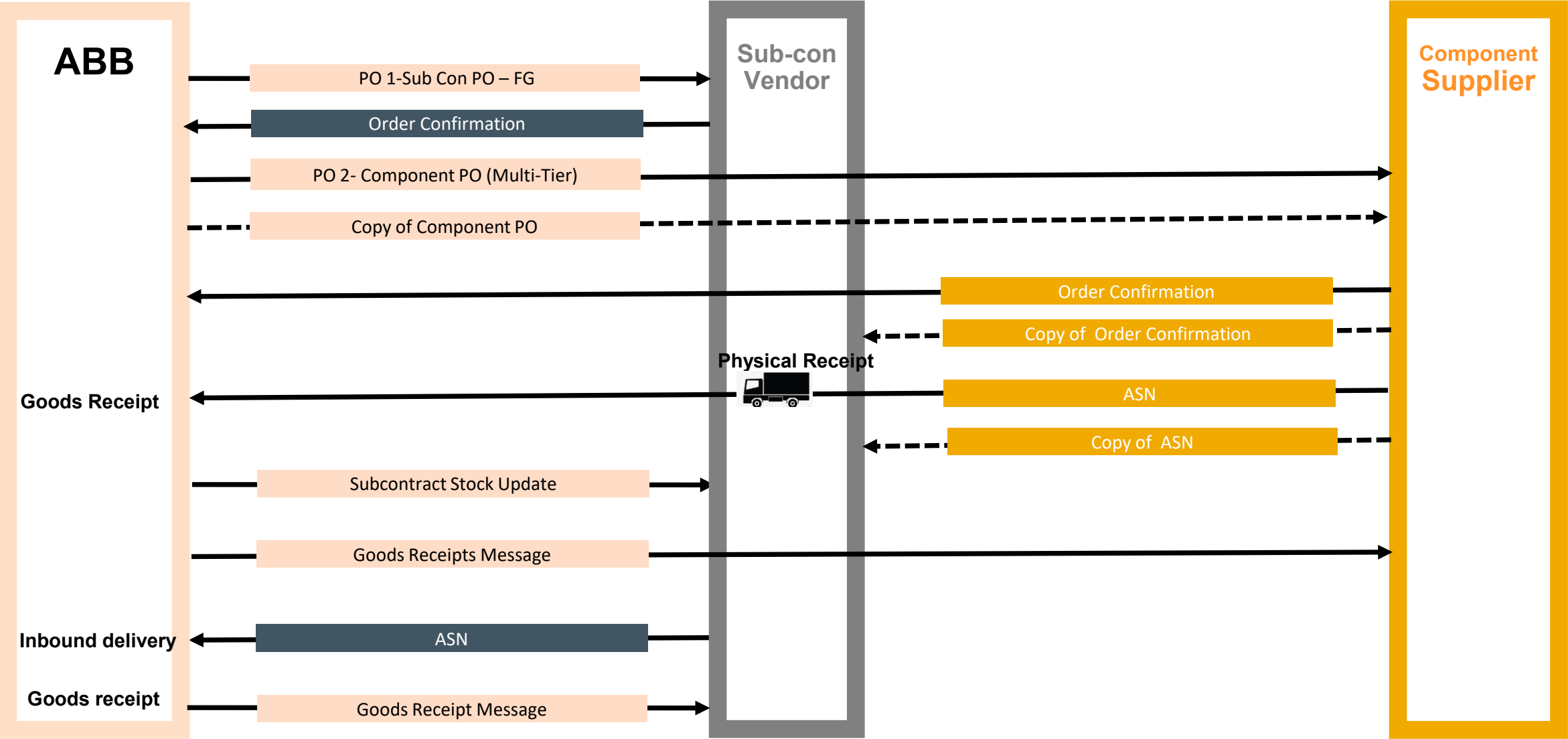
Multi-tier order collaboration allows supply chain partners to do the following:

- Subcontract manufacturers can view copies of orders, order confirmations, and ship notices on SAP Business Network.
- Subcontract manufacturers can submit component receipts on SAP Business Network as well as cancel them.
- All supply chain partners can specify a routing preference (cXML or Online) for order response documents and copy documents.

Multi-Tier Collaboration Documents

Document	Description
Copy of Multi-Tier Order	A Copy of Component Orders sent to the Subcontract Supplier.
Copy of Multi-Tier Order Confirmation	A copy of the order confirmation received from the component supplier shared with a Subcontract Supplier
Copy of Multi-Tier Ship Notice	Shipments to another supplier instead of to the OEM buyer. Users can select multiple component ship notices to perform an action, such as creating a component receipt.
Goods Receipt	Receipt which can refer to a component or assembly.

Multi-Tier Collaboration Workflow



Different modes of Integration/ Automation

SAP Business Network allows to work / to integrate in different modes with the system

- **Portal:** The Supplier works online through its Web Browser.
- **Full System Integration:** Suppliers electronically integrate their system(s) to the Network.

Multi-Tier Portal User Interaction

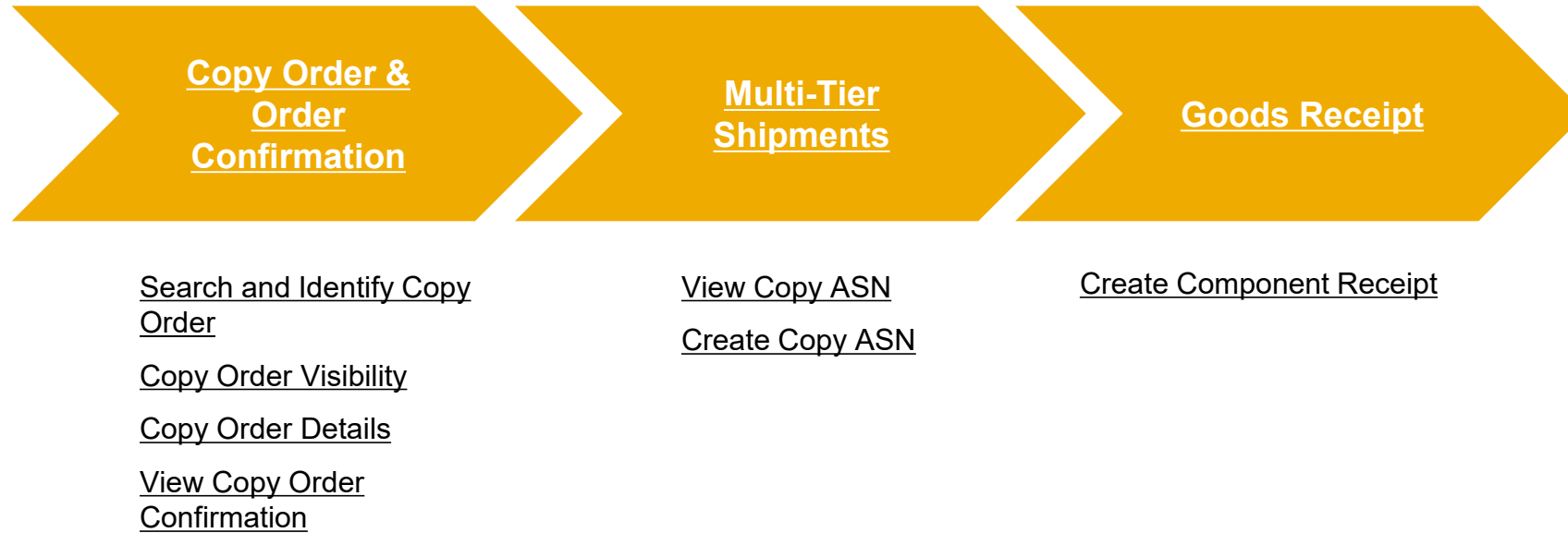
In this Chapter You Will Learn About ...

- ... how to identify multi-tier purchase order
- ... how to create multi-tier shipping notice
- ... how to create a goods receipt

Overall Considerations

Multi-tier order collaboration enables masking of information in copies of orders, order confirmations, and ship notices sent to tier-one suppliers, such as contract manufacturers. Consequently, contract manufacturers cannot see the following information on orders sent to component suppliers:

- Prices
- Taxes
- Payment terms
- Bill To Information



Multi-Tier Portal User Interaction

Search and Identify Copy Order

When applicable, a copy of the PO will be sent to necessary parties (i.e. Subcontract Supplier). The copy PO only needs to be received and understood.

From the Homepage:

1. Click on **Fulfillment > Extended Collaboration**.
2. Select **Multi-tier Orders** sub-tab to manage copy orders.
3. Search filters allow you to search using multiple criteria. Enter your search criteria and click **Search**.
4. List of displayed Purchase orders pre-default contain only orders for certain time range.
5. Click the Table Options Menu icon to manage your view.
6. Click order number to view the purchase order details.

Note:

- If the order can not be found in search, please check PO instructions or contact ABB.

The screenshot displays the SAP Business Network Enterprise Account interface. The top navigation bar includes 'Home', 'Enablement', 'Workbench', 'Planning', 'Orders', and 'Fulfillment'. A callout '1' points to the 'Fulfillment' dropdown menu, which is open, showing 'Extended Collaboration'. Below this, the 'Extended Collaboration' section is active, with a sub-tab 'Multi-Tier Orders' selected (callout '2'). The 'Search Filters' section (callout '3') includes fields for 'Customer' (set to 'All Customers'), 'Order Number' (with a search icon), 'Order Status' (set to 'All'), and 'Creation Date' (set to 'Last 14 days' with a date range of '8 Dec 2022 - 21 Dec 2022'). A callout '4' points to the 'Creation Date' dropdown. The 'Number of Results' is set to '100'. A 'Search' button (callout '5') and a 'Reset' button are at the bottom right. Below the search filters, a table titled 'Multi-Tier Orders (12)' is shown. A callout '6' points to the 'Order Number' column header. The table has columns: Type, Order Number, Version, Customer, Ship From Partner, Ship To Address, Date, Order Status, and Revision. Two orders are listed: Order 4500009459 (Type: Order, Version: 1, Customer: SCC Delivery Team - Global H19 Client 400 - TEST, Ship From Partner: SCC Supplier - TEST, Ship To Address: Palo Alto, CA United States, Date: 13 Sep 2022, Order Status: Confirmed, Revision: Original) and Order 4500009454 (Type: Order, Version: 2, Customer: SCC Delivery Team - Global H19 Client 400 - TEST, Ship From Partner: SCC Supplier - TEST, Ship To Address: Palo Alto, CA United States, Date: 13 Sep 2022, Order Status: Confirmed, Revision: Changed).

Type	Order Number	Version	Customer	Ship From Partner	Ship To Address	Date	Order Status	Revision
Order	4500009459	1	SCC Delivery Team - Global H19 Client 400 - TEST	SCC Supplier - TEST	Palo Alto, CA United States	13 Sep 2022	Confirmed	Original
Order	4500009454	2	SCC Delivery Team - Global H19 Client 400 - TEST	SCC Supplier - TEST	Palo Alto, CA United States	13 Sep 2022	Confirmed	Changed

Multi-Tier Portal User Interaction

Copy Order Visibility

ABB buyers can send a copy of an order to Sub-con supplier. Such multi-tier orders mask all financial information.

Original Supplier							
				Resend Failed Orders		 	
Order Number	Customer	Amount	Date	Order Status	Amount Invoiced	Type	Actions
4500010241	SCC Delivery Team - Global H19 Client 400 - TEST	€100.00 EUR	Nov 14, 2022	Shipped		Order	...

Receiving Supplier							
Multi-Tier Orders (1)							
							
Type	Order Number	Version	Customer	Ship From Partner	Ship To Address	Date	Order Status
Order	4500010241	1	SCC Delivery Team - Global H19 Client 400 - TEST	BParnau Supplier - TEST	Palo Alto, CA United States	14 Nov 2022	Shipped
							Revision
							Original

Copy Order Details

1. View order details.
2. **Line Items** section describes the ordered items.
3. Click **Details** or **Show Item Details** to review more information about the order such as control keys, scheduling lines and others.
4. You can configure your view by clicking on the **Table Options menu** icon.
5. View documents related to copy order – order confirmation, ASN.
6. View order history.

1
6

Order Detail
Order History



Purchase Order

4500010241

Version: 1

Purchase Order

(Shipped)

4500010241

Version: 1

From:
Customer
Company Code 1710 - Address Name 1
Derck Creek-1234
Palo Alto,
United States
Phone: +1 () 666-6666-666
Fax:

To:
BParnau Supplier - TEST
210 Sixth Avenue
Pittsburgh,
United States
Phone: +420 (111) 1111111
Fax:
Email:

sofort zahlbar ohne Abzug Basisdatum am Ende des Monats

Contact Information
Supplier Address
BP Supplier 1
Bucharova 4
123 45 Prague
Praha
Czech Republic
Email:
Fax:
Address ID: BP001
Buyer ID: BP001

Routing Status: Acknowledged

Export Status: Export Documents (12)

Related Documents: 2ASN221114
1ASN221114
1OC10241

2
3
4

Line #	No. Schedule Lines	Part #	Customer Part #	Type	Return	Revision Level	Qty (Unit)	Need By	Customer Location
10	1	S_BP001	BP001	Material			10.000 (H87) ⓘ	22 Nov 2022 CET 22 Nov 2022 Buyer time	

Description: Lager

Order submitted on: Monday 14 Nov 2022 1:00 PM GMT+01:00

Received by Ariba Network on: Monday 14 Nov 2022 2:31 PM GMT+01:00

This Purchase Order was sent by SCC Delivery Team - Global H19 Client 400 - TEST AN01533402636-T and delivered by Ariba Network.

Multi-Tier Portal User Interaction

View Copy Order Confirmation

From the Related documents in copy order screen:

- 1. View copy order confirmation by clicking its **number**.
- 2. View the **details**. Copy order confirmations mask all financial and sensitive information.
- 3. View copy order confirmation **history**.

Purchase Order
(Shipped)
4500010241
Version: 1

Routing Status: Acknowledged
External Document Type: Normalbestellung (NB)
Related Documents: [2ASN221114](#)
[1ASN221114](#)
[1OC10241](#)

Order Confirmation: 1OC10241

DonePrevious

PrintExport cXML

2

3

DetailHistory

Confirmation #: 1OC10241
Notice Date: 14 Nov 2022
Purchase Order: [4500010241](#)

Related Documents: [1OC10241_AR](#)

Line Items

Line #	No. Schedule Lines	Part #	Customer Part #	Revision Level	Qty (Unit)	Need By	Ship By	Customer Location
10	1	S_BP001	BP001		10.000 (H87) ⓘ	22 Nov 2022 CET 22 Nov 2022 Buyer time		

Description: Lager

Current Order Status:
1 Unconfirmed
9 Confirmed As Is (Estimated Delivery Date: 22 Nov 2022 - defaulted from Requested Delivery Date in order)

Multi-Tier Portal User Interaction

View Copy ASN – from Copy Order Screen

From the Related documents in copy order screen:

1. View copy ASN by clicking its **number**.
2. View **ASN details**. Copy ASN masks all financial and sensitive information.
3. View **Order Items**.
4. Click **Show Item Details** or **Show Details** to view more information.
5. View **Transport Details, Packed Items and ASN History**.

The screenshot illustrates the user interaction flow for viewing a Copy ASN from a Copy Order screen. The interface is divided into several sections:

- Purchase Order (Shipped) 4500010241**: This section at the top right contains routing status and document type information. A yellow box highlights the **2ASN221114** link, with a yellow arrow pointing down to the Ship Notice section.
- Ship Notice: 2ASN221114**: This section provides details about the shipment. It includes a **SHIP FROM** address (SAP Arlba - TEST, Bucharova 1, 165 00 Prague, Czech Republic) and a **DELIVER TO** field. A yellow box highlights the **2ASN221114** link, with a yellow arrow pointing down to the Order Items section.
- Order Items**: This section displays a table of order items. A yellow box highlights the **4500010241** link, with a yellow arrow pointing down to the SHIPMENT STATUS section.
- SHIPMENT STATUS**: This section shows the status of the shipment. A yellow box highlights the **Shipped** status, with a yellow arrow pointing down to the **Show Details** button.

The **Order Items** table contains the following data:

Order No.	Line No.	Part No.	Customer Part No.	Qty	Unit	Need By	Ship By	Customer Location
4500010241	10	S_BP001	BP001	10.000	H87 ⓘ	22 Nov 2022 CET 22 Nov 2022 Buyer time		1710

The **SHIPMENT STATUS** section shows the following information:

1. ▶ Shipped 1 H87 ⓘ

Multi-Tier Portal User Interaction

View Copy ASN – from Multi-Tier Shipments

You can view Copy ASN as well from the Multi-Tier sub-tab.

From the Homepage:.

1. Click on **Fulfillment/ Extended Collaboration**.
2. Select **Multi-Tier Shipments** sub-tab.
3. Search filters allows you to search using multiple criteria.
4. You can configure your view using the Table Options menu icon.

Note:

- For long term PO agreements that typically are valid for a year and have line items with **unlimited overdelivery**, use the **Order Number**: Exact number filter on the Items to Ship or Multi-tier Items to Ship tabs to create ship notices for the PO until the expiration date is reached.
- An item with **unlimited quantity tolerance** still appears on the Items to Ship tab even if the full quantity has already been shipped for as long as order's expiration date has not been reached.

The screenshot shows the SAP Business Network Enterprise Account interface. The top navigation bar includes 'SAP', 'Business Network', and 'Enterprise Account'. Below this, a secondary navigation bar contains 'Home', 'Enablement', 'Workbench', 'Planning', 'Orders', and 'Fulfillment'. A dropdown menu for 'Fulfillment' is open, showing 'Extended Collaboration' as an option, marked with a yellow circle '1'. The 'Extended Collaboration' page is displayed, with a sub-navigation bar containing 'Multi-Tier Orders', 'Component Inventory', 'Component Shipments', 'Return Shipments', 'Consignment Movements', 'Multi-Tier Shipments', 'Multi-Tier Items to Ship', and 'Component Receipts'. The 'Multi-Tier Shipments' tab is selected, marked with a yellow circle '2'. Below the tabs, there is a 'Search Filters' section, marked with a yellow circle '3'. At the bottom, a table titled 'Multi-Tier Shipments' is shown, marked with a yellow circle '4'. The table has columns for 'Ship Notices #', 'Customer', 'Shipper', 'Order #', 'Date', 'Receipt Status', 'Comp. Receipt Status', 'Routing Status', and 'Ship Notice Status'. A single row is visible with the following data: '2ASN221114', 'SCC Delivery Team - Global H19 Client 400 - TEST', 'SAP Ariba - TEST', '4500010241', '14 Nov 2022 3:26:04 PM', 'Open', and 'Acknowledged'.

Ship Notices #	Customer	Shipper	Order #	Date	Receipt Status	Comp. Receipt Status	Routing Status	Ship Notice Status
2ASN221114	SCC Delivery Team - Global H19 Client 400 - TEST	SAP Ariba - TEST	4500010241	14 Nov 2022 3:26:04 PM	Open		Acknowledged	

Multi-Tier Portal User Interaction

Create Copy ASN

From the Homepage:

1. Click on **Fulfillment > Extended Collaboration**.
2. Choose **Multi-Tier Items to Ship** tab.
3. You will see items that need to be shipped. You can filter your orders using search filters. Advanced search filters allow more refined search.
4. Select the right item and click **Create Ship Notice**.*

* Only if applicable

The screenshot displays the SAP Business Network Enterprise Account interface. The top navigation bar includes 'Home', 'Enablement', 'Workbench', 'Planning', 'Orders', and 'Fulfillment'. The 'Fulfillment' dropdown menu is open, showing 'Extended Collaboration' as the selected option. Below this, the 'Multi-Tier Items to Ship' tab is active. The search filters section includes fields for Customer (All Customers), Order Number (Partial number selected), Part #, Customer Part #, and Supplier Batch ID, each with a 'Look Up' button. The 'Show orders by' section has radio buttons for 'Need by date' (selected) and 'Ship by date'. The 'Search By' dropdown is set to 'Schedule Line Date Range'. The 'Date Range' is set to 'Other'. The 'Start Date' is 22 Nov 2022 and the 'End Date' is 30 Dec 2022. The 'View' dropdown is set to 'Only items that can be shipped'. Below the search filters, there is a table titled 'Items to Ship (2)'. The table has columns: Need By, Part No., Customer Part No., Description, Revision Level, Order Number, Item, Schedule Line No., Commitment Level, Ordering Address, Customer Location / Description, Manufacturer Part ID, Manufacturer Name, Requested Quantity, Shipped Quantity, Due Quantity, Customer, and Supplier. The table contains two rows of data. The first row is selected with a checkbox. The second row is not selected. At the bottom of the table, there is a 'Create Ship Notice' button.

Need By	Part No.	Customer Part No.	Description	Revision Level	Order Number	Item	Schedule Line No.	Commitment Level	Ordering Address	Customer Location / Description	Manufacturer Part ID	Manufacturer Name	Requested Quantity	Shipped Quantity	Due Quantity	Customer	Supplier
30 Nov 2022	S_BP001	BP001	Lager		4500010317	10	1		BP Supplier 1 . Prague, Praha . Czech Republic	1710			10 (H87)	0 (H87)	10 (H87)	SCC Delivery Team - Global H19 Client 400 - TEST	BParnau Supplier - TEST
30 Nov 2022	S_BP001	BP001	Lager		4500010331	10	1		BP Supplier 1 . Prague, Praha . Czech Republic	1710			10 (H87)	0 (H87)	10 (H87)	SCC Delivery Team - Global H19 Client 400 - TEST	BParnau Supplier - TEST

Multi-Tier Portal User Interaction

Create Copy ASN

From the Create Ship Notice screen:

1. Fulfill all required fields marked by an asterisk, but will also be based on customer requirement (I.e. Packing Slip ID).
2. You can choose your carrier from the list provided. Please note that tracking no. becomes required once a carrier is chosen.
3. A few other fields are provided to add more visibility to your customer.

The screenshot shows the 'Create Ship Notice' form. At the top, there's a header 'Create Ship Notice'. Below it, a note says '* Indicates required field'. The form is divided into several sections: 'SHIP FROM' (SAP Ariba - TEST, Prague, Czech Republic) with an 'Update Address' link; 'DELIVER TO' (Palo Alto, CA, United States); 'Ship Notice Header'; 'SHIPPING' (Packing Slip ID:*, Invoice No., Requested Delivery Date, Ship Notice Type, Shipping Date, Delivery Date:*, Hazard Type, Is Divisible); and 'TRACKING' (Carrier Name: DHL, Tracking No.:*, Bill of Lading No., Tracking Date, Shipping Method, Service Level). A 'Manage Carrier' dropdown is open on the right, showing 'Preferred Carriers' and 'Default Carriers' lists. Annotations 1, 2, and 3 point to the Packing Slip ID field, the Tracking No. field, and the Tracking section respectively.

SHIP FROM

SAP Ariba - TEST [Update Address](#)

Prague

Czech Republic

DELIVER TO

Palo Alto, CA
United States

▼ Ship Notice Header

SHIPPING

Packing Slip ID:*

Invoice No.:

Requested Delivery Date: --

Ship Notice Type: Select

Shipping Date:

Delivery Date: 30 Nov 2022 12:00 PM

Hazard Type: Select

Is Divisible: ☐

TRACKING

Carrier Name: DHL

Tracking No.:*

Bill of Lading No.:

Tracking Date:

Shipping Method: Select

Service Level:

Manage Carrier

Preferred Carriers

Default Carriers

- Airborne Express
- Consolidated Freightways
- DHL
- EGL Eagle Global Logistics
- EmeryWorldwide
- FedEx
- Linfox (Australia)
- Mento/IBM
- Purolator Courier
- Roadway Express

Multi-Tier Portal User Interaction

Create Copy ASN

4. Your line items are found at the bottom of your ASN.
5. The Qty is populated from your PO, along with the Need By/ delivery date.
6. Chose your ship quantity at the line below. Your Ship Qty cannot exceed the order quantity.
7. Once you have completed all required fields, click **Next**.
8. Once you click **Next**, you will be asked to confirm your ASN before submitting.
9. Once you confirm all information, click **Submit**.

Order Items

Order No.	Line No.	Part No.	Customer Part No.	Qty	Unit	Need By	Ship By	Customer Location
4500010317	10	S_BP001	BP001	10.000	H87	30 Nov 2022 30 Nov 2022	CET Buyer time	1710

Description: Lager

Shipment Status
Total Item Due Quantity: 10 H87

Confirmation Status
Total Confirmed Quantity: 0 H87
Total Backordered Quantity: 0 H87

Line	Ship Qty	Supplier Batch ID	Country of Origin	Production Date	Expiry Date
1	10.000		- Select Country -		

Add Ship Notice Line

Save Exit **Next**

Create Ship Notice

Previous Save **Submit** Exit

Confirm and submit this document.

SHIP FROM	DELIVER TO
SAP Ariba - TEST Bucharova 1	3475 Deer Creek

Multi-Tier Portal User Interaction

Create Component Receipt

From the Homepage:

- 1. Click on **Fulfillment >Extended Collaboration.**
- 2. Choose **Multi-Tier Shipments** in sub-menu
- 3. Select the ship notice.
- 4. Click **Create Component Receipt**. *

* Only if applicable

SAP

Business Network

Enterprise Account

Home

Enablement

Workbench

Planning

Orders

Fulfillment

Extended Collaboration

Extended Collaboration

Multi-Tier Orders

Component Inventory

Component Shipments

Return Shipments

Consignment Movements

Multi-Tier Shipments

Multi-Tier Shipments

	Ship Notices #	Customer	Shipper	Order #	Date	Receipt Status	Comp. Receipt Status	Routing Status	Ship Notice Status
☒	2ASN221114	SCC Delivery Team - Global H19 Client 400 - TEST	SAP Ariba - TEST	4500010241	14 Nov 2022 3:26:04 PM		Open	Acknowledged	
☐	1ASN221114	SCC Delivery Team - Global H19 Client 400 - TEST	SAP Ariba - TEST	4500010241	14 Nov 2022 3:09:40 PM		Open	Acknowledged	

Create Component Receipt

Multi-Tier Portal User Interaction

Create Component Receipt

From the Create Receipt screen:

5. Add Your Receipt Number and Receipt Date.
6. Confirm received quantity.
7. Select Next.
8. Review Receipt and Submit.

Create Receipt

7

Next

Exit

* Indicates required field

SHIP FROM

SAP Ariba - TEST
Bucharova 1
165 00 Prague
Czech Republic
Email:

SHIP TO

Email:

5

Receipt #:

Receipt Date:

22 Dec 2022

Comments:

Attachments

The total size of all attachments cannot exceed 100MB

Choose File

No file chosen

Add Attachment

Components

6

Line #	Customer Part # / Description	Customer Batch #	Part #	Batch #	Received Quantity	Unit	Shipped Quantity	Unit	Shipment Reference #	Shipment Reference Line #	Order Reference #	Order Reference Line #
1	BP001		S_BP001		1.0	H87	1.0	H87	2ASN221114	1	4500010241	10
	Lager											

Turn on Error Dump ⓘ
Hide/Show XML

Review Receipt

8

Previous

Submit

Exit

* Indicates required field

SHIP FROM

SAP Ariba - TEST

SHIP TO

Thank you.

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