Blocking Line Items and Changes to Closing Line Items in Purchase Orders
CSC-41391, CSC-45783

Target GA: May, 2025

Feature Overview

Introducing: **Blocking Line Items and Changes to Closing Line Items in Purchase Orders, CSC-41391, CSC-45783**

Feature Description

This feature introduces the ability to block and close line items in purchase orders within SAP Business Network.

By doing so, it streamlines purchase order management by ensuring that suppliers cannot create Order Confirmations or Ship Notices for items that are either blocked or closed.

This helps maintain order accuracy and reduces unnecessary supplier interactions.

Key Benefits

Buyer and Supplier benefits:

- Prevents unnecessary order confirmations and ship notices for blocked or closed items, reducing manual intervention and errors.

- Enhances the control over procurement processes by ensuring that only active line items are processed.

- Reduces misunderstandings with suppliers by clearly indicating which items are no longer open for further action.

- Provides clear visibility into the status of purchase order line items, ensuring that all stakeholders are informed about the current state of orders.

Audience:

- Buyers and Suppliers

Enablement Model:

- Automatically On

Applicable Solutions:

- SAP Business Network Supply Chain Collaboration

Blocking Line Items and Changes to Closing Line Items in Purchase Orders
Prerequisites and Restrictions

Prerequisites

- SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network
- The feature applies to SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2505 (Q2 2025, SP 23) and later.

CIG Blocked PO line items support documentation:
[SBNI-1393: Support Block Purchase Order line Items | SAP Help Portal](#)

CIG Closed PO line items support documentation:
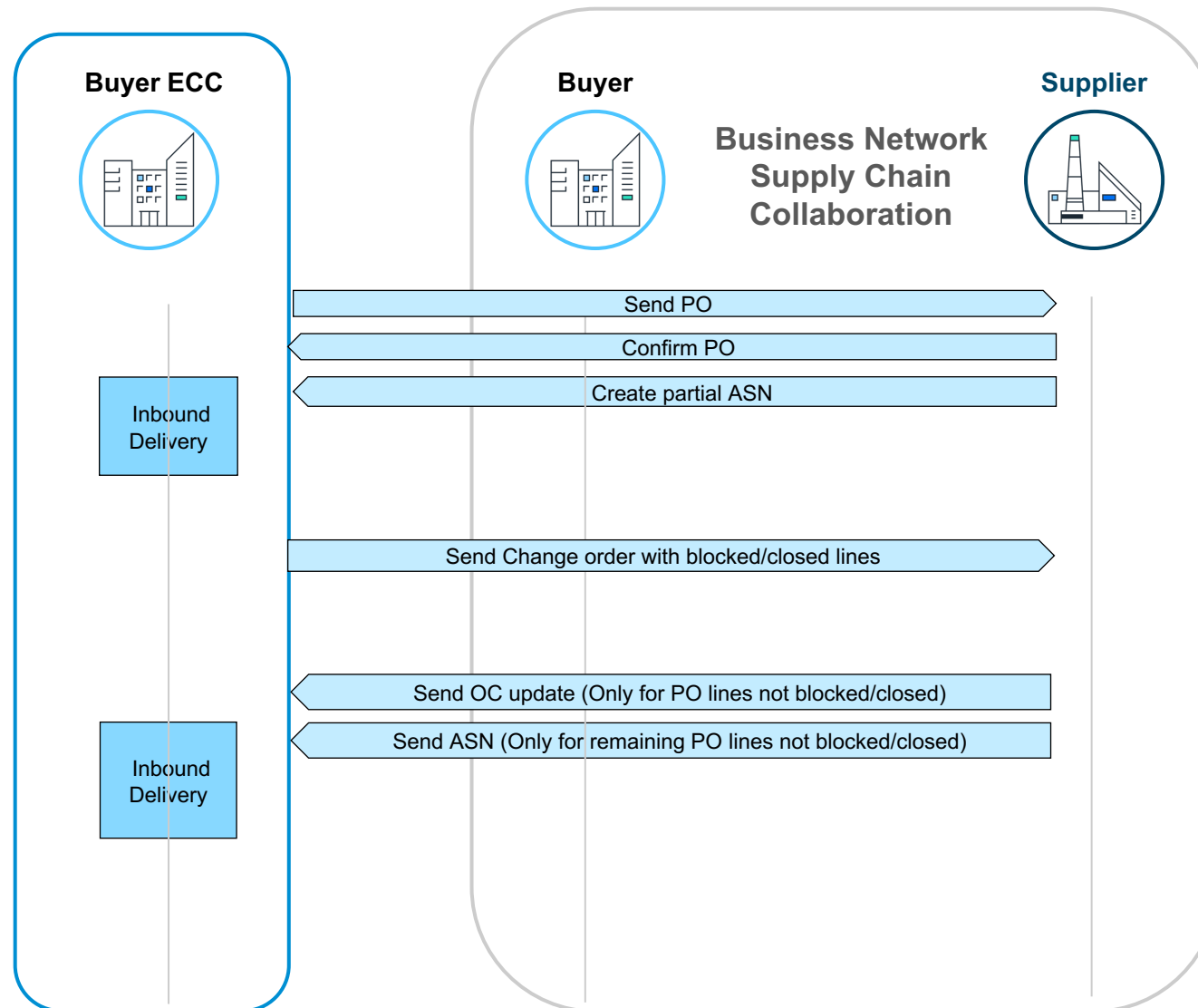[SBNI-1476: Support Close Purchase Order lines (CIG) | SAP Help Portal](#)

Restrictions

- This new functionality does not include Service Entry Sheet and Invoice.

Landscape Expectations

- Expectation is that the buyer is on an SAP ECC system

Blocking Line Items and Changes to Closing Line Items in Purchase Orders

SAP Business Network

Buyer ECC

Buyer

Supplier

Business Network
Supply Chain
Collaboration

Send PO →	
← Confirm PO	
← Create partial ASN	

Inbound Delivery

Send Change order with blocked/closed lines →

← Send OC update (Only for PO lines not blocked/closed)

← Send ASN (Only for remaining PO lines not blocked/closed)

Inbound Delivery

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Blocked Line Items in Purchase Orders

User Story

As a **procurement manager**,
I want to be able to **block specific lines in a purchase order**,
so that I can **temporarily prevent suppliers** from creating **order confirmations and ship notices** for those items, allowing for adjustments or cancellations without fully closing the order.
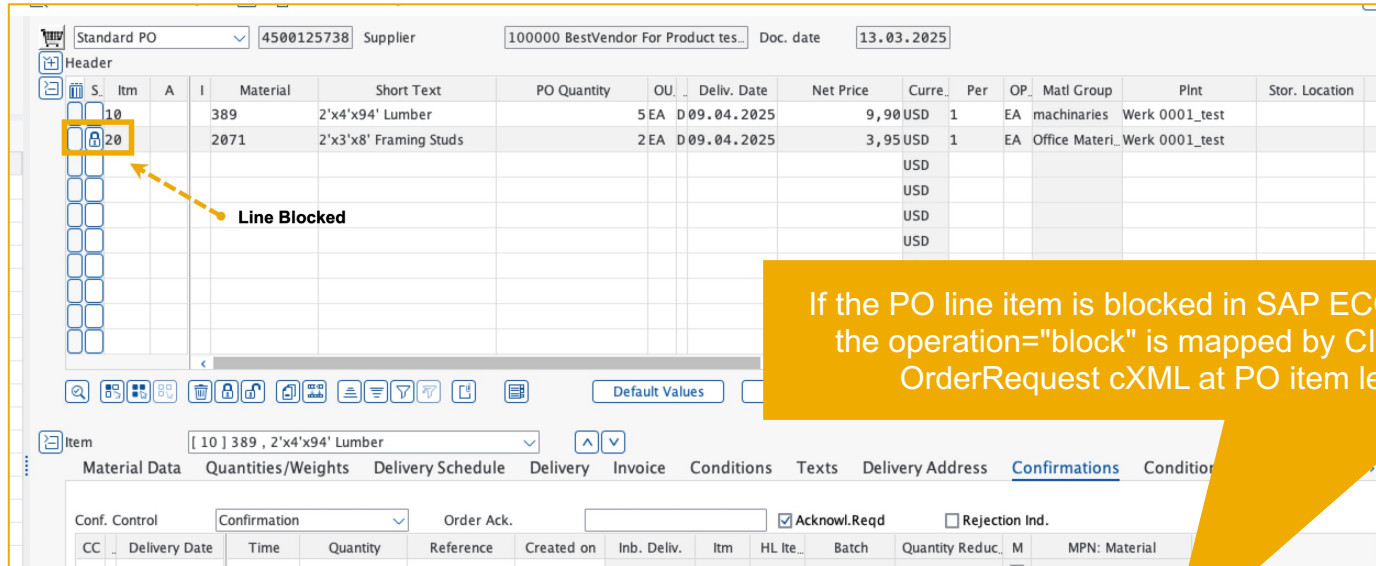
Jonny Smith
Buyer @ ABC Company

1. The procurement manager identifies a line item in a purchase order that needs to be blocked due to reasons such as quality issues, supplier disputes, or changes in demand.
2. The procurement manager logs into the procurement system (e.g., SAP ERP) to access the purchase order.
3. They navigate to the specific purchase order and locate the line item(s) that need to be blocked.
4. The procurement manager selects the option to block the identified line item(s).
5. SAP ERP prompts for confirmation to ensure the action is intentional. The procurement manager confirms the block action.
6. A change order is triggered automatically to notify the supplier about the blocked line item.
7. The supplier logs into SAP Business Network to open the change order and view the lines that are blocked.
8. The supplier should not be able to create an order confirmation or ship notice against a blocked purchase order line.
9. The procurement manager continues to monitor the blocked line item and can unblock it if the issue is resolved or if further action is required.

Blocked Line Items in Purchase Orders - Feature Details
Change Order generation in Buyer ERP system

Line Blocked

If the PO line item is blocked in SAP ECC system, the operation="block" is mapped by CIG in the OrderRequest cXML at PO item level

Block PO Line	Unblock PO line

```xml
</ItemOut>
<ItemOut quantity="2.000" requestedDeliveryDate="2025-04-09T12:00:00+01:00" lineNumber="20" operation="block">
    <ItemID>
        <SupplierPartID>1019</SupplierPartID>
        <BuyerPartID>2071</BuyerPartID>
    </ItemID>
    <ItemDetail>
        <UnitPrice>
            <Money currency="USD">3.95</Money>
        </UnitPrice>
        <Description xml:lang="en">2'x3'x8' Framing Studs</Description>
        <UnitOfMeasure>EA</UnitOfMeasure>
```

```xml
<ItemOut quantity="5.000" requestedDeliveryDate="2025-04-09T12:00:00+08:00" lineNumber="10">
    ...
</ItemOut>
<ItemOut quantity="2.000" requestedDeliveryDate="2025-04-09T12:00:00+08:00" lineNumber="20">
    <ItemID>
        <SupplierPartID>1019</SupplierPartID>
        <BuyerPartID>2071</BuyerPartID>
    </ItemID>
    <ItemDetail>
        ...
    </ItemDetail>
    <ControlKeys>
        ...
    </ControlKeys>
    <ScheduleLine quantity="2.000" requestedDeliveryDate="2025-04-09T12:00:00+08:00" lineNumber="1">
        <UnitOfMeasure>EA</UnitOfMeasure>
    </ScheduleLine>
</ItemOut>
```

Blocked Line Items in Purchase Orders - Feature Details
Change Order visibility in SAP Business Network Supply Chain Collaboration

"Blocked" status is displayed in the "Change" column in the PO detail page when a blocked item is received in SBN

Line Items

Show Item Details

Line #	No. Schedule Lines	Change	Part #	Customer Part #		Return	Revision Level	Qty (Unit)	Need By		Unit Price	Subtotal	Customer Location	
10	1		1019	2071	Material			15.000 (EA)	8 Apr 2025	EST	$3.95 USD	$59.25 USD		Details
									9 Apr 2025	Buyer time				
	Description:	2'x3'x8' Framing Studs												
20	1	→ Blocked	343	389	Material			30.000 (EA)	9 Apr 2025	EST	$9.90 USD	$297.00 USD		Details
									9 Apr 2025	Buyer time				
									8 Apr 2025	EST				
									9 Apr 2025	Buyer time				
	Description:	2'x4'x94' Lumber												

Order submitted on: Thursday 13 Mar 2025 6:00 AM GMT-05:00
Received by SAP Business Network on: Thursday 13 Mar 2025 4:56 PM GMT-05:00
This Purchase Order was sent by q8jtestbuyer01 - TEST AN02005543705-T and delivered by SAP Business Network.

Sub-total: $356.25 USD

Blocked Line Items in Purchase Orders - Feature Details
Validations during Order Confirmation generation – PO flip

Purchase Order: 4500125757

Create Order Confirmation ▼   Create Ship Notice   Create Invoice ▼   Create Quality Notification

Confirm Entire Order   istory
Update Line Items
Reject Entire Order

Fro
Cu
default
234-123456
10243 Walldorf
Berlin

To:
t1q8jqis
jUnitDum
Arkansas
United Sta
Phone: +1

Only PO line items that are not **blocked** are included in the Order Confirmation

Line Items

Line #	Part #	Customer Part #	Revision Level	Type	Qty (Unit)	Need By	Unit Price	Subtotal	Customer Location
10	1019	2071		Material	15.000 (EA)	8 Apr 2025 EST	$3.95 USD	$59.25 USD	
						9 Apr 2025 Buyer time			

Description: 2'x3'x8' Framing Studs

▶ Schedule Lines

Current Order Status

🔘 15 Confirmed As Is (Estimated Delivery Date: 9 Apr 2025 - defaulted from Requested Delivery Date in order)

Confirm: [   ]   Backorder: [   ]   Details ⓘ

Confirm Based on Schedule Lines

Attachments:

Name	Size (bytes)	Content Type
	No items	

Choose File No file chosen   Add Attachment

The total size of all attachments cannot exceed 100MB

Confirm All ⓘ

Blocked Line Items in Purchase Orders - Feature Details
Validations during Order Confirmation generation – Items to Confirm

Line Items

Line #	No. Schedule Lines	Change	Part #	Customer Part #	Type
10	1		1019	2071	Material
		Description:	2'x3'x8' Framing Studs		
20	1	→ Blocked	343	389	Material

PO line items that are **blocked** are not available for Order Confirmation generation

Items to confirm (1)

View: Confirmed items for editing ▾

⌄ Edit filter | Save filter | 4500125757 | Confirmed items for editing

Customers
Select or type selections ⧉

Order numbers
4500125757 × | Type selection

○ Partial match   ● Exact match

Apply   Reset

Confirm ⌄   Reject ⌄

	⌄ ☐	Item No. ↑	Schedule Line No.	Supplier Part No.	Current Status	Description	Need By	Estimated Delivery	Requested Quantity	Confirmed Quantity	Quantity To Confirm	Shipped Quantity	Requested Unit Price	Actions
⌄	☐	Customer: **q8jtestbuyer01 - TEST** Order No.: **4500125757**												
	☐	10		1019	Confirmed	2'x3'x8' Framing Studs	Apr 8, 2025	4/9/2025 📅	15 EA	15 EA	15 EA	0 EA	$3.95 USD	···

Blocked Line Items in Purchase Orders - Feature Details
Validations during Order Confirmation generation – OC Excel Upload

Line Items

Line #	No. Schedule Lines	Change	Part #	Customer Part #	Type
10	1		1019	2071	Material
	Description:	2'x3'x8' Framing Studs			
20	1	→ Blocked	343	389	Material

PO line items that are **blocked** are not present in the downloaded OC Excel template by default

SAP Ariba

Confirmations   Time Zone: UTC+10:00   Items to Reconfirm

Confirmation Number	Order Number (*)	Type	Order Version	Order Date	Customer Location	Shipping Currency	Shipping Money
OC-4500125757	4500125757	Order	2	13 Mar 2025 09:00:00 PM	"0001 Werk 0001"		

Blocked Line Items in Purchase Orders - Feature Details
Validations during Ship Notice generation – PO flip

Line Items

Line #	No. Schedule Lines	Change	Part #	Customer P
10	1		1019	2071
	Description:	2'x3'x8' Framing Studs		
20	1	→ Blocked	343	389
	Description:	2'x4'x94' Lumber		

Only PO line items that are not **blocked** are flipped into the Ship Notice

Order Items

Order No.	Line No.	Part No.	Customer Part No.	Qty	Unit
4500125757	10	1019	2071	15.000	EA

Description: 2'x3'x8' Framing Studs

Shipment Status
Total Item Due Quantity: 15 EA
Confirmation Status
Approved
Total Confirmed Quantity: 15 EA   Total Backordered Quantity: 0 EA

Line	Ship Qty	Supplier Batch ID	C
1	15.000		

Add Ship Notice Line

↳   Add Order Line Item   Manage Serial Numbers ▼

Blocked Line Items in Purchase Orders - Feature Details
Validations during Ship Notice generation – Items to Ship

Line Items

Line #	No. Schedule Lines	Change	Part #	Customer Part #	Type
10	1		1019	2071	Material
		Description:	2'x3'x8' Framing Studs		
20	1	→ Blocked	343	389	Material
		Description:	2'x4'x94' Lumber		

PO line items that are **blocked** are not available for Ship Notice generation. Line-item checkbox is grayed out in the Items to Ship Workbench tile

Create ship notice

☐	Order No. ↓	Item No.	Supplier Part No.	Description	Schedule Line No.	Need By
☐	Customer: **q8jtestbuyer01 - TEST** Ship To Address: **Werk 0001, Berlin, Berlin, DEU**					
☐	4500125757	10	1019	2'x3'x8' Framing Studs	1	Apr 8, 2025
→ ☐	4500125757	20	343	2'x4'x94' Lumber	1	Apr 9, 2025

Blocked Line Items in Purchase Orders - Feature Details
Validations during Ship Notice generation – ASN Excel Upload

Line Items

Line #	No. Schedule Lines	Change	Part #	Customer Part #	Type
10	1		1019	2071	Material
	Description:	2'x3'x8' Framing Studs			
20	1	→ Blocked	343	389	Material

> PO line items that are **blocked** are not present in the downloaded ASN Excel template by default

SAP Business Network

| Ship Notices | | | Time Zone: | UTC+10:00 | | | | | |

Ship Notice Number (*)	Ship Notice Date (*)	Order ID (*)	Order Date	Item Line Number (*)	Item Parent Line Number	Item Supplier Part ID	Item Quantity (*)	Item Unit Of Measure (*)	Item Unit Price Currency
	2025-03-13T18:08:42-0	4500125757	2025-03-13T04:00:00-0	10		1019	15	EA	USD

Closed Line Items in Purchase Orders
User Story

As a **procurement manager**,
I want to be able to **close specific lines** in a purchase order,
so that I can permanently **prevent suppliers** from creating any
further order confirmations or ship notices for those items,
ensuring that completed or cancelled orders are finalized and do
not generate unnecessary documents.

Jonny Smith
Buyer @ ABC Company

1. The procurement manager identifies a line item in a purchase order that needs to be **closed** due to reasons such as completed delivery, cancellation, or finalization of the order.
2. The procurement manager logs into the procurement system (e.g., SAP ERP) to access the purchase order.
3. They navigate to the specific purchase order and locate the line item(s) that need to be closed.
4. The procurement manager selects the option to close the identified line item(s) by setting a delivery complete indicator.
5. SAP ERP prompts for confirmation to ensure the action is intentional. The procurement manager confirms the close action.
6. A change order is triggered automatically to notify the supplier about the closed line item.
7. The supplier logs into SAP Business Network to open the change order and view the lines that are closed.
8. The supplier should not be able to create an order confirmation or ship notice against a closed purchase order line.
9. The procurement manager ensures that the closed line item is marked as such in the system and monitors to ensure no further actions are required.

Closed Line Items in Purchase Orders - Feature Details

Change Order generation in Buyer ERP system

If the Purchase Order line item is Closed in SAP ECC, there system, the isDeliveryCompleted="yes" and is mapped by CIG in the OrderRequest cXML at PO item level

S.	Itm	A	I	Material	Short Text	PO Quantity	OU	Deliv. Date	Net Price	Curre.	Per	OP.	Matl Group	Plnt	Stor. Location
	10			2071	2'x3'x8' Framing Studs	15	EA	D 09.04.2025	3,95	USD	1	EA	Office Materi..	Werk 0001_test	
	20			389	2'x4'x94' Lumber	30	EA	D 09.04.2025	9,90	USD	1	EA	machinaries	Werk 0001_test	

Standard PO 4500125758 Supplier 100000 BestVendor For Product tes… Doc. date 13.03.2025

Default Values   Addl Planning

Item [10] 2071 , 2'x3'x8' Framing Studs

Material Data   Quantities/Weights   Delivery Schedule   Delivery   Invoice   Conditions   Texts   Delivery Address   Confirmations   Condition Control

Overdeliv. Tol. ___%   □ Unlimited
Underdel. Tol. ___%
Shipping Instr.
Stock Type   Unrestricted use
Rem. Shelf Life ___ D
QA Control Key

1st Rem./Exped.
2nd Rem./Exped.
3rd Rem./Exped.
No. Exped. 0
Pl. Deliv. Time 10
GR Proc. Time
Incoterms
CertificateType

☑ Goods Receipt
□ GR non-valuated
☑ Deliv. Compl.   **Delivery Complete Indicator is used to close a Purchase Order line**

Latest GR Date

```
▼<ItemOut quantity="15.000" isDeliveryCompleted="yes" requestedDeliveryDate="2025-04-09T12:00:00+08:00" lineNumber="10">
   ▼<ItemID>
      <SupplierPartID>1019</SupplierPartID>
      <BuyerPartID>2071</BuyerPartID>
   </ItemID>
   ▼<ItemDetail>
      ▼<UnitPrice>
         <Money currency="USD">3.95</Money>
      </UnitPrice>
      <Description xml:lang="en">2'x3'x8' Framing Studs</Description>
      <UnitOfMeasure>EA</UnitOfMeasure>
      ▼<PriceBasisQuantity quantity="1" conversionFactor="1">
         <UnitOfMeasure>EA</UnitOfMeasure>
      </PriceBasisQuantity>
      <Classification domain="ERPCommodityCode">006</Classification>
      <Classification domain="ERPCommodityCodeDescription">Office Materials</Classification>
      <PlannedAcceptanceDays>0</PlannedAcceptanceDays>
      <Extrinsic name="ReceivingType"/>
      <Extrinsic name="extLineNumber">10</Extrinsic>
   </ItemDetail>
   <Indicator level="error" type="isDeliveryCompleted"/>
   ▶<ControlKeys>
   ...
   </ControlKeys>
   ▼<ScheduleLine quantity="15.000" requestedDeliveryDate="2025-04-09T12:00:00+08:00" lineNumber="1">
      <UnitOfMeasure>EA</UnitOfMeasure>
   </ScheduleLine>
</ItemOut>
```

Sample if the PO line delivery complete indicator is updated

```
▼<ItemOut quantity="15.000" requestedDeliveryDate="2025-04-09T12:00:00+08:00" lineNumber="10">
   ▼<ItemID>
      <SupplierPartID>1019</SupplierPartID>
      <BuyerPartID>2071</BuyerPartID>
   </ItemID>
   ▼<ItemDetail>
      ▼<UnitPrice>
         <Money currency="USD">3.95</Money>
      </UnitPrice>
      <Description xml:lang="en">2'x3'x8' Framing Studs</Description>
      <UnitOfMeasure>EA</UnitOfMeasure>
      ▼<PriceBasisQuantity quantity="1" conversionFactor="1">
         <UnitOfMeasure>EA</UnitOfMeasure>
      </PriceBasisQuantity>
      <Classification domain="ERPCommodityCode">006</Classification>
      <Classification domain="ERPCommodityCodeDescription">Office Materials</Classification>
      <PlannedAcceptanceDays>0</PlannedAcceptanceDays>
      <Extrinsic name="ReceivingType"/>
      <Extrinsic name="extLineNumber">10</Extrinsic>
   </ItemDetail>
```

Closed Line Items in Purchase Orders - Feature Details
Change Order visibility in SAP Business Network Supply Chain Collaboration

"Closed" status is displayed in the "Change" column in the PO detail page when a closed item with hard validation is received in SBN

Closed Line Items in Purchase Orders - Feature Details
Validations during Order Confirmation generation – PO flip

Only PO line items that are not **closed with hard validation** are flipped into the Order Confirmation

Closed Line Items in Purchase Orders - Feature Details
Validations during Order Confirmation generation – Items to Confirm

PO line items that are **closed with hard validation** are not available for OC generation. Line-item checkbox is grayed out in the Items to Confirm Workbench tile

Closed Line Items in Purchase Orders - Feature Details
Validations during Order Confirmation generation – OC Excel Upload

Line Items

Line #	No. Schedule Lines	Change	Part #	Customer Part #	Type	Retu
10	1	→ Closed	1019	2071	Material	

Description: 2'x3'x8' Framing Studs

The buyer has marked this as **Completed**

-

20	1		343	389	Material	

Description: 2'x4'x94' Lumber

PO line items that are **closed with hard validation** are not present in the downloaded OC Excel template by default

SAP Ariba

Confirmations   Time Zone: UTC+10:00

Confirmation Number	Order Number (*)	Type	Order Version	Order Date	Item Line number (*)	Shipping Currency	S
	4500125758			2025-03-13T04:00:00-07:	20		

Closed Line Items in Purchase Orders - Feature Details
Validations during Ship Notice generation – PO flip

Line Items

Line #	No. Schedule Lines	Change	Part #	Customer Part #	Type	Retur
10	1	→ Closed	1019	2071	Material	

Description: 2'x3'x8' Framing Studs
The buyer has marked this as **Completed**

–

| 20 | 1 | | 343 | 389 | | |

Description: 2'x4'x94' Lumber

> Only PO line items that are not **closed with hard validation** are flipped into the Ship Notice

Order Items

Order No.	Line No.	Part No.	Customer Part No.	Qty
4500125758	20	343	389	30.000

Description: 2'x4'x94' Lumber

Shipment Status
Total Item Due Quantity: 30 EA
Confirmation Status
Approved
Total Confirmed Quantity: 30 EA   Total Backordered Quantity: 0 EA

Line	Ship Qty	Supplier Batch ID
1	30.000	

Add Ship Notice Line

↳ Add Order Line Item   Manage Serial Numbers ▼

Closed Line Items in Purchase Orders - Feature Details
Validations during Ship Notice generation – Items to Ship

Line Items

Line #	No. Schedule Lines	Change	Part #	Customer Part #	Type	Retu
10	1	→ Closed	1019	2071	Material	

Description: 2'x3'x8' Framing Studs
The buyer has marked this as **Completed**
–

| 20 | 1 | | 343 | 389 | | |

Description: 2'x4'x94' Lumber

PO line items that are **closed with hard validation** are not available for Ship Notice generation. Line-item checkbox is grayed out in the Items to Ship Workbench tile

Items to ship (2)

∨ Edit filter | 4500125758

Customers
Select or type selections

Order numbers
4500125758 × Type selection

○ Partial match   ● Exact match

Create ship notice

∨ ☐		Order No.	Item No. ↓	Supplier Part No.	Description	Schedule Line No.	Need By
∨ ☐		Customer: **q8jtestbuyer01 - TEST** Ship To Address: **Werk 0001, Berlin, Berlin, DEU**					
☐		4500125758	20	343	2'x4'x94' Lumber	1	Apr 8, 2025
☐		4500125758	10	1019	2'x3'x8' Framing Studs	1	Apr 8, 2025

Closed Line Items in Purchase Orders - Feature Details
Validations during Ship Notice generation – ASN Excel Upload

Line Items

Line #	No. Schedule Lines	Change	Part #	Customer Part #	Type	Retur
10	1	→ Closed	1019	2071	Material	

Description: 2'x3'x8' Framing Studs

The buyer has marked this as **Completed**

-

20	1		343	389	Material	

Description: 2'x4'x94' Lumber

> PO line items that are **closed with hard validation** are not present in the downloaded ASN Excel template by default

SAP Business Network

Ship Notices   Time Zone: UTC+10:00

Ship Notice Number (*)	Ship Notice Date (*)	Order ID (*)	Order Date	Item Ship Notice Line Number (*)	Item Line Number (*)	Item Parent Line Number	Item Supplier Part ID	Item Quantity (*)	Item Unit Of Measure (*)	S M
	2025-03-13T18:25:59-07:	4500125758	2025-03-13T04:00:00-07:		20		343	30	EA	

Thank you.

SAP Business Network

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