

# Buyer Managed Inbound Transportation Planning with Logistics Service Provider CSC-47279

Target GA: August, 2024



## Feature Overview

# Introducing: **Buyer managed inbound transportation planning with logistics service provider, SCC-E-236, FC-361**

## Feature Description

Allows buyers and suppliers on SAP Business Network to collaborate with logistics service providers for outsourced transportation planning of a buyer-managed transport.

The transportation planning of inbound shipments is managed by a freight forwarder on behalf of the buyer, based on the supplier advanced ship notice.

## Key Benefits

Seamless end-to-end inbound process across all involved trading partners.

Buyer and Supplier benefits:

- Fully automated process starting from the purchase order up to the planned shipment visibility as part of an updated advanced ship notice.

Logistics Service Provider (LSP also known as carrier) benefits:

- Seamless communication with buyer on shipment planning and execution.

## Audience:

- Buyers, Suppliers, Shippers and Carrier

## Enablement Model:

- Support Request

## Applicable Solutions:

- SAP Business Network Supply Chain Collaboration
- SAP Business Network Freight Collaboration

# Enablement Steps

- Buyers need to be onboarded on SAP Business Network Supply Chain Collaboration and SAP Business Network Freight Collaboration. Contact SAP Support, provide your SAP Business Network Supply Chain Collaboration ANID and your SAP Business Network Freight Collaboration LBN ID, to establish the relationship between both networks.
- On SAP Business Network Supply Chain Collaboration:
  - Buyers and suppliers must share a Supply Chain Collaboration relationship type.
  - "Enable BN4L integration for Ship Notices" option must be enabled for the buyer account. Contact SAP Support to get this entitlement enabled.
- On SAP Business Network Freight Collaboration (done by Shipper):
  - Maintain entry in 'Configure Partner Connections' app to enable B2B communication with logistics service provider (LSP).
  - Maintain code mapping for LSP ID sent from SAP Business Network Supply Chain Collaboration and the logistic service provider's LBN ID in SAP Business Network Freight Collaboration in 'Assign Codes' application.
  - Optionally maintain units of measure in the 'Assign Codes' application for the various unit of measure values sent from SAP Business Network Supply Chain Collaboration to SAP Business Network Freight Collaboration.

# Prerequisites and Restrictions

## Prerequisites

- Buyers must set a partner function called “ShippingNetwork,” with the value ‘BN4L’, on their backend system. This indicator is then included in the Purchase Order document.
- Buyers must also provide, as part of the Purchase Order document, the Logistics Service Provider (LSP) identifier, by setting an additional partner function called “ForwardingAgent.” This value is flipped to the Ship Notice document generated from the Order, after which, it is transmitted to LBN. Doing this enables the corresponding Logistics Service Provider to be assigned to the Transport Request.

## Restrictions

- This new functionality applies to online Ship Notices and Ship Notices created through the Excel mass upload template only. B2B Ship Notices are not covered.
- Only one shipment plan per Ship Notice is supported.

## Landscape Expectations

- Expectation is that the buyer is on an SAP ECC or SAP S/4HANA system and does not have a SAP Transportation Management implementation. Reason: SAP Transportation Management supports manual / automatic / outsourced transportation planning already.

# User Story

I need to initiate transportation planning for my purchase orders and want to monitor the shipment.



*Jonny Smith*

*Buyer @ ABC Company*

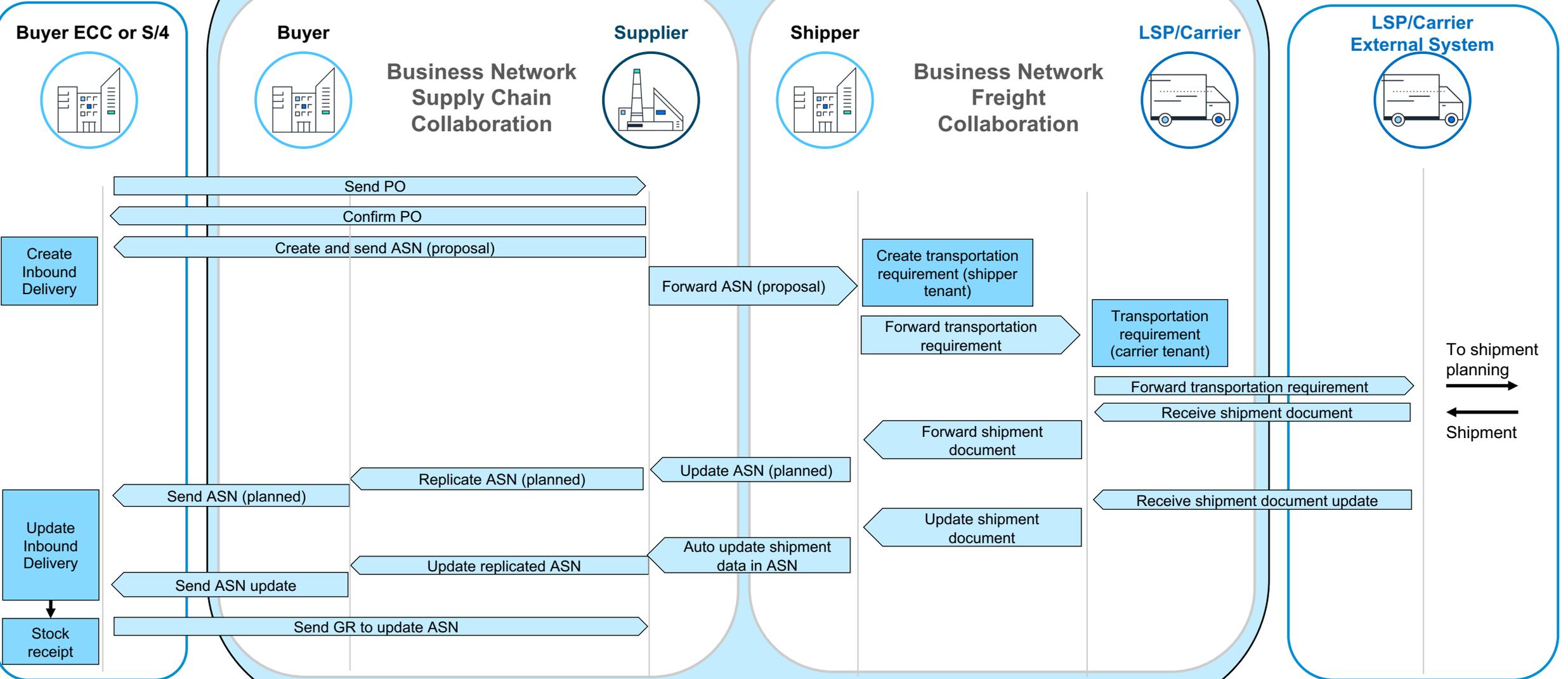
In an inbound transportation scenario, buyers can now initiate transportation planning by sharing the advanced ship notice from their supplier with their logistics service providers.

The logistics service provider shares the planned shipment with the buyer along with updates to the advanced ship notice.

That way, buyers automatically get updates when their purchase is scheduled to arrive including updates on potential changes to the arrival date. Buyers can plan their warehousing, production and customer expectations more accurately.

# Buyer Managed Inbound Transportation Planning with Logistics Service Provider

## SAP Business Network



# Feature Details

## Purchase Order creation in Buyer ERP system

Fu.	Name	Number	Name	D
<input type="checkbox"/> 9W	Vendor	100000	Best Vendor For Product 12123test	<input type="checkbox"/>
<input type="checkbox"/> 0A	Ordering address	100000	Best Vendor For Product 12123test	<input type="checkbox"/>
<input type="checkbox"/> VN	Vendor	100000	Best Vendor For Product 12123test	<input type="checkbox"/>
<input type="checkbox"/> PI	Invoicing Party	100000	Best Vendor For Product 12123test	<input type="checkbox"/>
<input type="checkbox"/> SN	Shipping Network	10300099	BN4L	<input type="checkbox"/>
<input type="checkbox"/> FA	Fowarding agent	100060	Best storage location..2	<input type="checkbox"/>

Buyers need to maintain Purchase order with two new partner functions:

'SN' - Shipping Network

'FA' - Forwarding Agent

These two values will be passed to the Network through CIG and will be part of the OrderRequest Cxml.

With this information, SAP Business Network for Supply Chain will be able to route the related Ship Notice to Business Network for Logistics and assign it to the corresponding Logistics Service Provider

```
<BusinessPartner role="logistics" type="organization">
  <Address>
    <Name xml:lang="en">Dummy</Name>
  </Address>
  <IdReference domain="shippingNetwork" identifier="BN4L"/>
  <IdReference domain="forwardingAgent" identifier="100080"/>
</BusinessPartner>
```

# Feature Details

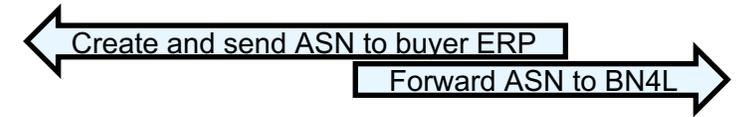
## Purchase Order visibility in SAP Business Network Supply Chain Collaboration

The screenshot displays the SAP Business Network interface for Purchase Order visibility. At the top, there are eight summary cards: Orders to invoice (0), Orders (36), Ship notices (932), Items to ship (2), Ship notices (932), Ship notices (932), Orders (36), and Service sheets (0). The 'Orders (36)' card is highlighted with a red box. Below the summary cards, there are filter sections for Customers, Purchasing organizations, Order numbers, Customer locations, Creation date, Order status, Company codes, Order type, Routing status, Min amount, Max amount, Currency, and Visibility. The 'Shipping Network' filter is highlighted with a red box and set to 'All'. A yellow callout box points to the 'Shipping Network' filter with the text: "New filter and column in 'Orders' Workbench tile and 'Items to Ship' Workbench tile on Buyer and Supplier portal to help identifying Orders that have Ship Notices being forwarded to SAP Business Network Freight Collaboration for planning". Below the filters, there is a table of orders with columns: Order Number, Shipping Network, Customer, Amount, Routing Status, Date, Order Status, Amount Invoiced, and Actions. The table shows two orders for E.W. Scripps Company, both with a Shipping Network of BN4L.

Order Number	Shipping Network	Customer	Amount	Routing Status	Date	Order Status	Amount Invoiced	Actions
PO_BN4L_061000001	BN4L	E.W. Scripps Company	\$5,000.00 USD	Acknowledged	Jun 10, 2024	Shipped		...
PO_BN4L_061000003	BN4L	E.W. Scripps Company	\$5,000.00 USD	Sent	Jun 10, 2024	New		...

# Feature Details

## Ship Notice generation by Supplier in SAP Business Network Supply Chain Collaboration



Ship Notice: PS1406004 Done

Cancel Edit Print Export cXML

Detail Shipment Detail History

**SHIP FROM**  
supplier1-bn4l@ariba.com  
Postal Address:  
JUnitDummy  
Arkansas City, AR 7163  
United States

**DELIVER TO**  
Test ship to party  
Postal Address:  
Joe Smith  
Mailstop M-543  
123 Anystreet  
Sidney test 94089  
Australia

**SHIPPING**  
Shipping Network: BN4L  
Packing Slip ID: PS1406004  
Notice Date: 14 Jun 2024  
Service Level: --  
Requested Delivery Date: --  
Ship Notice Type: --  
Actual Shipping Date: 21 Jun 2024  
Actual Delivery Date: --  
Gross Volume: --  
Gross Weight: --

Related Documents: 320000411

**TRACKING**  
Tracking information not provided.

**STATUSES BASED ON GOODS RECEIPT**  
Completion Status: None  
Receipt Status: None

**SHIP NOTICE TRACKING**  
Execution status: None  
Estimated arrival date: --

**SHIPMENT PLANNING**  
Shipment Planning Status: In Planning

The new indicator 'Shipping Network' for ASNs that are propagated to LBN for shipment planning

New "Shipment Planning Status" field. Status is "In Planning" after ASN is routed to LBN

Create Transportation Requirement

Forward Transportation Requirement to Carrier

# Feature Details

## Automatic creation of Transportation Request based on ASN in SAP Business Network Freight Collaboration

Details on the communication process of the shipper can be found in the 'Manage Integration Logs' application in SAP Business Network Freight Collaboration.

Manage Integration Logs

Last Updated On : Jun 14, 2024, 5:07:29 PM

Document ID:  Received On: \*

Logs (5) Documents (5)

All (5) Failed (2)

<input type="checkbox"/>	Document ID	Type Description	Scenario	Status
<input type="checkbox"/>	AN02003375235#PS1406004	freightCollaborationShippingEvent	Transportation Requirement Document	Completed

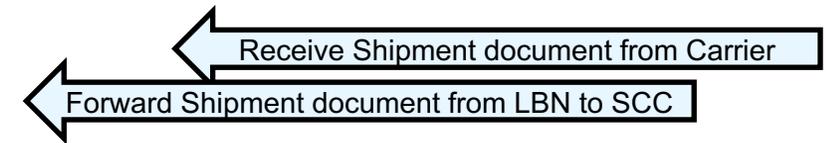
Payload preview

```
1 {
2   "freightCollaborationShippingEvent": {
3     "requestInfo": {
4       "creationDateTime": "2024-06-14T15:03:30-07:00",
5       "payloadID": "1718402610450-1028902257140125014@10.169.58.225",
6     },
7     "parties": [
8       {
9         "type": "FromParty",
10        "domain": "NetworkID",
11        "identity": "AN02003375235"
12      },
13      {
14        "type": "ToParty",
15        "domain": "NetworkID",
16        "identity": "AN02003375236"
17      },
18      {
19        "type": "SenderParty",
20        "domain": "NetworkID",
21        "identity": "AN01000000001"
22      }
23    ],
24    "messageInfo": {
```

This is an example for a payload to create a transportation requirement. Other payload messages related to the buyer managed inbound transportation scenario e.g. to share the transportation requirement with the specified carrier, can also be found as line items in the 'Manage Integration Logs' application.

# Feature Details

## Shipment plan visibility in SAP Business Network Freight Collaboration



Details on the communication process related to the carrier can also be found in the 'Manage Integration Logs' application in SAP Business Network for Freight Collaboration.

**Manage Integration Logs** Last Updated On : Jun 14, 2024, 5:08:47 PM

Logs (1090) Documents (642)

All (1090) Failed (257)

Document ID	Type Description	Scenario	Status	Timestamp
10020026532-ORM7B	ScsShipmen tDocument	Shipment Document	Completed	6:49:15 AM

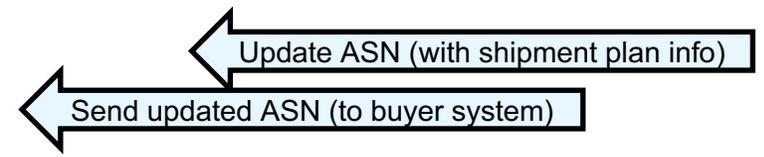
Reprocessed: No  
Correlation ID: AGZXFjpWlMwM3XvXKzqgNgUmCGi9  
Sender ID: 10020026532  
Receiver ID: 10020026531  
Flow Direction: Network to Network

```
1- {
2-   "FcShipmentRequest": {
3-     "requestInfo": {
4-       "payloadID": "lbn-shipment-request-
5-         -payload-1716906820163",
6-       "creationDateTime": "1970-01-20T20
7-         :55:06Z",
8-       "parties": [
9-         {
10-          "type": "FromParty",
11-          "domain": "NetworkId",
12-          "identity":
13-            "AN02003375235"
14-        },
15-         {
16-          "type": "ToParty",
17-          "domain": "NetworkId",
18-          "identity":
19-            "AN02003375236"
20-        },
21-         {
22-          "type": "SenderParty",
23-          "domain": "NetworkId",
24-          "identity":
25-            "AN02003375235"
26-        }
27-       ]
28-     }
29-   }
30- }
```

The Logistics Service Provider can review the shipment plan sent by the external carrier from their system to LBN

# Feature Details

## ASN search in SAP Business Network Supply Chain Collaboration through the NEW Ship Notice Workbench tile



**Workbench** Customize

0  
Orders to invoice  
Last 31 days

36  
Orders  
Last 31 days

933  
Ship notices  
BN4L ASN

2  
Items to ship  
Last 31 days

933  
Ship notices  
Fully Received

933  
Ship notices  
Custom range date

36  
Orders  
SUPPLIER SIDE

0  
Service sheets  
Last 31 days

Ship notices (933)

▼ Edit filter | Save filter | Last 31 days | BN4L

Customers

Packing slip IDs  
  
 Partial match  Exact match

Order numbers  
  
 Partial match  Exact match

Creation date

Supplier reference  
  
 Partial match  Exact match

Ship notice type

Shipping date

Delivery date

Shipping network

Completion status

Receipt status

Routing status

Shipment planning status

Apply Reset

Packing Slip ID	Shipping Network	Shipment Planning Status	Customer	Order Number	Creation Date ↓	Shipping Date	Delivery Date	Ship Notice Type	Completion S
PS1406004	BN4L	Planned	E.W. Scripps Compa ny	320000411	Jul 4, 2024	Jun 21, 2024	Jul 31, 2024		
<a href="#">asn1.PO240527-demo-02.test04</a>	BN4L	In Planning	E.W. Scripps Compa ny	<a href="#">PO240527-demo-02.test04</a>	Jun 25, 2024				

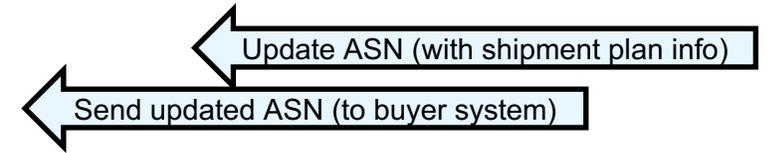
Ship Notices forwarded to Business Network for Freight Collaboration can be easily identified.  
Latest Shipment Planning status shown

Buyers and Suppliers can now filter by Shipping and Delivery date

Users can search for ASNs created in the Last 365 days

# Feature Details

## ASN updates based on Shipment plan in SAP Business Network Supply Chain Collaboration



The following values are updated based on the Shipment plan information received from SAP Business Network Freight Collaboration:

- Bill Of Lading
- Service Level
- Carrier
- Transit Direction
- Delivery Date

A Ship Notice update is sent to the buyer system including these modified values.

Detail Shipment Detail Packed Items History

**SHIP FROM**  
supplier1-bn4l@ariba.com  
Postal Address:  
jUnitDummy  
Arkansas City, AR 71630  
United States

**DELIVER TO**  
MFG WAXDALE - AEROSOLS  
Postal Address:  
8311 16th Street  
STURTEVANT, WI 53177  
United States  
Address ID: 2030

**SHIPPING**  
Shipping Network: BN4L  
Packing Slip ID: PS1406004  
Notice Date: 11 Jun 2024  
Service Level: 05-BN4L  
Requested Delivery Date: --  
Ship Notice Type: --  
Actual Shipping Date: 16 Jun 2024  
Actual Delivery Date: 31 Jul 2024 12:00:00 PM

**TRACKING**  
Carrier Name: Delivery Express - BN4L  
Carrier Code: --  
Tracking No.: BOL#10020026531-FC-BN4L  
Bill of Lading No.: BOL#10020026531-FC-BN4L  
Carrier Contacts: --  
Shipping Contract Number: --

**SHIPMENT PLANNING**  
Shipment Planning Status: **Planned**

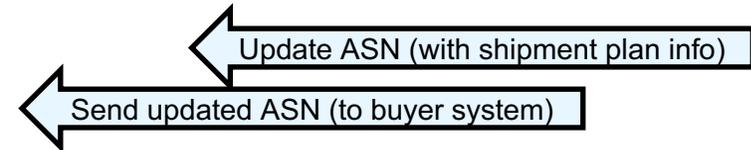
Related Documents: ASN\_BN4L\_061100001  
PO\_BN4L\_061100001

**DIMENSIONS**

“Shipment Planning Status” is now “Planned”

# Feature Details

## Shipment plan visibility inside the ASN in SAP Business Network Supply Chain Collaboration



Detail
Shipment Detail
Packed Items
History

**PLANNED PICK UP** 2024-06-01T23:50:45Z

**Loading 01 Address**

8, Max-Planck-Street  
Walldorf  
69126, IN

Mobile: (+51) 987654321  
Email: lbn-loading-01@sap.com

---

**Customer Information**

Name: ADC WAREHOUSE  
Address: 1151, WEST BRYN MAWR AVENUE  
ITASCA  
69126, US  
Contact: ADC WAREHOUSE  
Email: lbn-ordering@sap.com  
Phone: (+51) 987654321

**PLANNED DELIVERY**

**Unloadgin 01 Address**

8, Max-Planck-Street  
Walldorf  
69126, IN

Mobile: (+51) 987654321  
Email: lbn-unloading-01@sap.com

---

**First Carrier Information**

Name: Delivery Express - BN  
Contact: Executing Carrier Name  
Email: lbn-carrier-contact@sap.com  
Phone: (+51) 987654321

**Transportation Stages**

Stage ID - 1

ORIGIN	DESTINATION
<b>Loading 01 Address</b> 8, Max-Planck-Street Walldorf 69126, IN Mobile: (+51) 987654321 Email: lbn-loading-01@sap.com	<b>Unloadgin 01 Address</b> 8, Max-Planck-Street Walldorf 69126, IN Mobile: (+51) 987654321 Email: lbn-unloading-01@sap.com

Stage Type:	20	Executing Carrier:	Delivery Express - BN4L
Means of Transport:	Truck	Carrier Contact:	Executing Carrier Name
Planned Departure Time:	2024-05-29T23:59:40Z	Carrier Email:	lbn-carrier-contact@sap.com
Planned Arrival Time:	2024-06-15T23:59:20Z	Carrier Phone:	(+51) 987654321
Total Distance:	145.5 Kilometer	Vehicle/Vessel Registration Number:	RTUD-123
Mode of Transport:	Road transport	Driver:	Transportation driver 1

Item Category	Item Type	ASN Reference	Item Identification	Item Description	Planned Qty	Gross Weight	Gross Volume
Product	Material	ASN_BN4L_052700008/1	UBX--KZ	Mustard	324.0 EA	953.0 KGM	166.0 CMQ

Page 1

New "Shipment Detail" tab inside the Ship Notice document. Shipment plan information is only visible in the Network. This information is not sent to the buyer ERP system. Only the 5 values mentioned in the previous slide are sent to the ERP as part of the updated ASN.

The "Transportation Stages" info is shown as part of the ASN to buyers and suppliers. There could be multiple as part of the shipment

# Thank you.

Follow us



**[www.sap.com/contactsap](http://www.sap.com/contactsap)**

© 2024 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company. The information contained herein may be changed without prior notice. Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors. National product specifications may vary. These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty. In particular, SAP SE or its affiliated companies have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP SE's or its affiliated companies' strategy and possible future developments, products, and/or platforms, directions, and functionality are all subject to change and may be changed by SAP SE or its affiliated companies at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, and they should not be relied upon in making purchasing decisions. SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. All other product and service names mentioned are the trademarks of their respective companies. See [www.sap.com/trademark](http://www.sap.com/trademark) for additional trademark information and notices.