Support for Serial Numbers in Advanced Ship Notice (Inbound Delivery) in 5I2 IES (SBNI-2011)

Target GA: Aug 2025

Feature Overview

Introducing: **Support for Serial Numbers in Advanced Ship Notice (Inbound Delivery) SBNI-2011**

Feature Description

This feature supports tracking and validating serial numbers at both the component and handling unit levels during subcontracting processes. Suppliers can create Advance Ship Notices with these serial numbers on SAP Business Network, enabling buyers to seamlessly integrate them with Inbound Delivery in SAP S/4HANA Cloud for 5I2 scenarios.

Key Benefits

Inventory Tracking: By tracking each handling unit, businesses can maintain accurate inventory levels.

Location Tracking: Serial numbers can help pinpoint the location of specific handling units within a warehouse or shipping facility.

Defective Unit Identification: If a defective handling unit is found, its serial number can be used to trace its origin and identify potential issues in the manufacturing or transportation process.

Recall Management: In case of a product recall, serial numbers can help quickly identify and locate affected handling units.

Traceability: Serial numbers provide a clear audit trail for each component, allowing businesses to track its journey from the supplier to the final product. This is especially important in industries with strict regulatory requirements.

Audience:

Buyer & Supplier

Enablement Model:

Automatically On

Applicable Solutions:

SAP S/4 HANA Public Cloud
SAP Business Network

User Story

As a supply chain integration specialist**,**
I want serial numbers for subcontracting components and handling units to be accurately mapped and transmitted through the Ship Notice (ASN) in SAP Integration Suite, managed gateway for spend management and business network**,**
so that inbound delivery processes in S/4HANA Cloud can correctly process serialized goods and ensure end-to-end traceability**.**
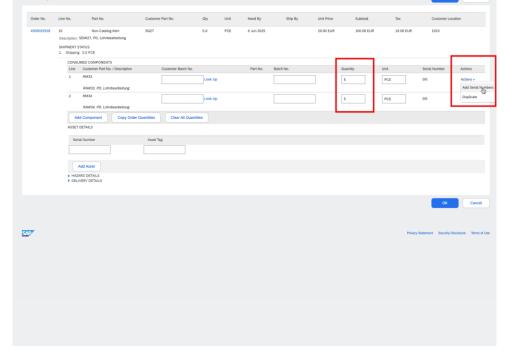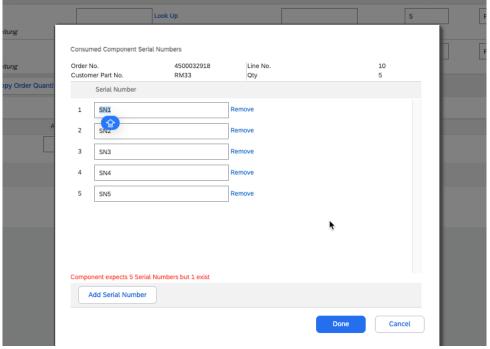
Feature Details

This feature enables the required mapping extensions in SAP Integration Suite, managed gateway for spend management and business network, to support Advanced Ship Notices (ASN) involving serialized component consumption in backflush scenarios, as well as handling serial numbers (SERNR) on Handling Units (HU).

Specifically, the ASN cXML serial number included in Asset Info will be mapped to the subcontracting component serial number in S/4HANA Cloud. Additionally, mapping will be extended to ensure serial numbers on Handling Units are correctly transferred during ASN processing.
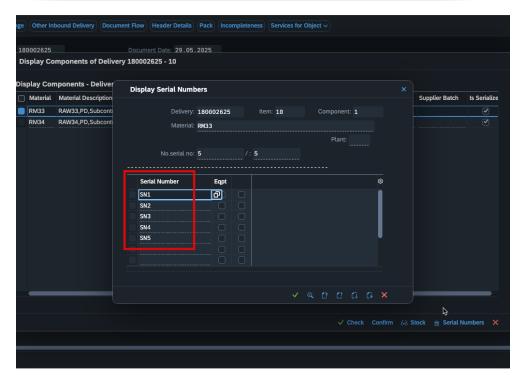
These enhancements ensure end-to-end consistency and traceability between the supplier's ASN on SAP Business Network and inbound delivery processes in S/4HANA Cloud.

Top-left screenshot (Order detail table):

Order No.	Line No.	Part No.	Customer Part No.	Qty	Unit	Need By	Ship By	Unit Price	Subtotal	Tax	Customer Location
4500032918	10	Non-Catalog-Item	SG27	5.0	PCE	6 Jun 2025		20.00 EUR	100.00 EUR	19.00 EUR	1010

Description: SEMI27, PD, Lohnbearbeitung

SHIPMENT STATUS
1. Shipping 5.0 PCE

CONSUMED COMPONENTS

Line	Customer Part No. / Description	Customer Batch No.		Part No.	Batch No.		Quantity	Unit	Serial Number	Actions
1	RM33		Look Up				5	PCE	0/5	Actions ▾
	RAW33, PD, Lohnbearbeitung									Add Serial Numbers
2	RM34		Look Up				5	PCE	0/5	Duplicate
	RAW34, PD, Lohnbearbeitung									

Add Component   Copy Order Quantities   Clear All Quantities

ASSET DETAILS

Serial Number   Asset Tag

Add Asset

▶ HAZARD DETAILS
▶ DELIVERY DETAILS

OK   Cancel

SAP

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Top-right screenshot (SAP PO Confirmations):

Preview On   Messages   Personal Setting   Save As Template   Services for Object

⌄ 4500032918   Supplier: 10300085 Inlandslieferant DE (ARIBA 42K)   Doc. Date: 05/30/2025

ALL All Items   Char. Display:

...	A	I	Material	Short Text	PO Quantity	OUn	S...	C	Deliv. Date	Net Price	Curr...	Per
		L	SG27	SEMI27, PD, Lohnbearbeit...	5	PC		D	06/06/2025	20.00	EUR	1

1 [10] SG27 , SEMI27, PD, Lohnbearbeitung

Quantities/Weights   Delivery Schedule   Delivery   Invoice   Conditions   Texts   Delivery Address   **Confirmations**

Control: 0001 Confirmations   Order Ack.:   ☐ Acknowl. Reqd   ☐ Rejection Ind.

Date	Time	Quantity	Reference	Created on	Start Date	End Date	Inb. Deliv.	Suppl.Conf	Itm	HL Ite..
025	06:30:00	5	ASN_45000329...	05/30/2025			180002625		10	0

Bottom-left screenshot (Consumed Component Serial Numbers):

Look Up   5

Consumed Component Serial Numbers

Order No.	4500032918	Line No.	10
Customer Part No.	RM33	Qty	5

Serial Number

1	SN1	Remove
2	SN2	Remove
3	SN3	Remove
4	SN4	Remove
5	SN5	Remove

Component expects 5 Serial Numbers but 1 exist

Add Serial Number

Done   Cancel

Copy Order Quanti...

Bottom-right screenshot (Display Serial Numbers):

Change   Other Inbound Delivery   Document Flow   Header Details   Pack   Incompleteness   Services for Object ⌄

180002625   Document Date: 29.05.2025

Display Components of Delivery 180002625 - 10

Display Components - Deliver...

	Material	Material Description				Supplier Batch	Is Serialize
	RM33	RAW33,PD,Subconti...					☑
	RM34	RAW34,PD,Subconti...					☑

Display Serial Numbers

Delivery: 180002625   Item: 10   Component: 1

Material: RM33

Plant: _____

No.serial no: 5   / : 5

Serial Number	Eqpt
SN1	
SN2	
SN3	
SN4	
SN5	

✓ Check   Confirm   Stock   Serial Numbers   ✕

5

Thank you.

SAP Business Network

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