

# Allow Selection of Serial Numbers During Component Consumption- CSC-32328

Target GA: February 2025

## Feature Overview

# Introducing: Allow Selection of Serial Numbers During Component Consumption

## Feature Description

These features prevent suppliers from selecting a serial number for the component which is not available in the component inventory

## Key Benefits

These features will minimize errors when reporting component consumption by allowing only the serial numbers of the components in the inventory to be reported

Audience:

Suppliers

Enablement Model:

Customer Configured

Applicable Solutions:

SAP Ariba Supply Chain Collaboration

# Prerequisites, Restrictions, Cautions

## Prerequisites

- None.

## Restrictions

- None

## Cautions

- None

# User Story

The buyers and suppliers are collaborating using SAP Business Network Supply Chain Collaboration solution. The buyer sends subcontracting POs and component inventory with serial numbers of the components. Buyer would like to ensure that supplier uses the serial numbers of component provided in component inventory when reporting consumption.

# Feature Details

## Configure Transaction Rule To Enable Component Serial Number Validation

- Buyer logs in to SAP BN Account
- Buyer Navigates to the default transaction rules UI as follows

### Component Consumption Rules

- ☐ Do not allow consumption to exceed balance quantity in component inventory.
- ☐ Require all quantities of consumed components in a ship notice not to exceed the component quantities in the related purchase order, scheduling agreement, or scheduling agreement release.
- ☐ Require buyer batch matching in component inventory.
- ☐ Require suppliers to provide a unique asset serial number for each purchase order line item with consumed components.
- ☐ Require the total count of shipment serial numbers to not exceed the total quantity shipped for line items with consumed components.
- ☐ Require suppliers to provide asset serial numbers for the total shipped quantity of line items with consumed components.
- ☒ Require Serial number validation and allow suppliers to select the serial numbers from the components in the component inventory

1

*Login as buyer → Account Settings → Manage Profiles → Default Transaction Rules →*

*Under Component Consumption section enable the transaction rule shown by 1 in the screen shot to the left.*

# Feature Details

## Serial Number Validation During Component Consumption In Report Consumption UI

### 1. Login as a supplier

- Navigate to the details view of a subcontracting purchase order from the orders workbench worklist by selecting the PO.
- In the PO details screen select the button “Report Consumption” to navigate to the “Create Consumption document” UI.
- Enter value for the input field “Document No”
- Enter quantity for components in *Consumed Components* section under *Order items*
- In the same section select *Actions* → *Add Serial Numbers* to navigate to the “*Consumed Component Serial Numbers*” Pop-up UI.
- There are different ways the supplier user can enter the serial numbers as shown in later section.

# Feature Details

## Serial Number Validation During Component Consumption In ASN UI

### 1. Login as a supplier

- Navigate to the *ASN creation UI* for a subcontracting purchase order from one of the different UIs like *PO Details UI*, *Items to Ship UI* etc...
- In the *Create Ship Notice UI* screen enter the required information like *Packing slip ID*, *Delivery Date*.
- Select the *Add Details* option under *Order items* section to navigate to the where component consumption information can be reported for the item.
- Enter quantity for components in *Consumed Components* section.
- In the same section select *Actions* → *Add Serial Numbers* to navigate to the “*Consumed Component Serial Numbers*” Pop-up UI.
- There are different ways the supplier user can enter the serial numbers as shown in later section.

# Feature Details

## Selecting Serial Numbers In Consumed Component Serial Numbers Pop-Up

Consumed Component Serial Numbers

Order No.	PO_0012	Customer Location	Item-SH
Customer Part No.	selina01-0012-1	Line No.	1
Customer Batch No.	selina01-batch-0012-1	Qty	10
Part No.	cui01-0012-1		

1

Add Serial Numbers

Autofill Serial Numbers

Serial Numbers (1 / 10)

SN1-0012-1

Remove

2

Confirm

Cancel

- Enter the serial number as shown in section 1
- Select *Add Serial Numbers* button to add the serial numbers to the list as shown in section 2
- The heading shows 1 of 10 serial numbers provided
- The system can also auto fill the rest of the serial numbers if they were the next serial numbers in the sequence as shown in next section.



# Feature Details

## Selecting Serial Numbers In Consumed Component Serial Numbers Pop-Up

Consumed Component Serial Numbers

Order No.	PO_0012	Customer Location	Item-SH
Customer Part No.	selina01-0012-1	Line No.	1
Customer Batch No.	selina01-batch-0012-1	Qty	10
Part No.	cui01-0012-1		

SN1-0012-1    Add Serial Numbers    Autofill Serial Numbers

Serial Numbers (10 / 10)

SN1-0012-1	Remove
SN10-0012-1	Remove
SN2-0012-1	Remove
SN3-0012-1	Remove
SN4-0012-1	Remove
SN5-0012-1	Remove
SN6-0012-1	Remove
SN7-0012-1	Remove
SN8-0012-1	Remove
SN9-0012-1	Remove

Confirm    Cancel

- Select the button *Autofill Serial Numbers* shown by 1 in the screen shot to the left to fill the serial numbers which are next in sequence for the product, batch and location combination.
- The serial numbers as shown by 2 are filled.
- Select the *Confirm* button to successfully record the serial numbers of consumed components that exist in component inventory.

# Feature Details

## Error when Incorrect Serial Numbers Are Reported For Consumed Component

**Consumed Component Serial Numbers**

Order No.	PO_0012	Customer Location	Item-SH
Customer Part No.	selina01-0012-1	Line No.	1
Customer Batch No.	selina01-batch-0012-1	Qty	5
Part No.	cui01-0012-1		

SN1-0012-123458

Serial Numbers SN1-0012-12345,SN1-0012-123456,SN1-0012-123457,SN1-0012-123458 are not available in component inventory based on combination of Customer Part No., Customer Batch No., Part No. and Customer Location

Serial Numbers (5 / 5)

SN1-0012-1	<a href="#">Remove</a>
SN1-0012-12345	<a href="#">Remove</a>
SN1-0012-123456	<a href="#">Remove</a>
SN1-0012-123457	<a href="#">Remove</a>
SN1-0012-123458	<a href="#">Remove</a>

- In case supplier user enters serial numbers which don't exist in component inventory while reporting component consumption as shown in 1 and selects **Confirm** button an error message as shown by 2 is displayed.
- Thus preventing the supplier from reporting the serial numbers of components which are not available in component inventory.

# Feature Details

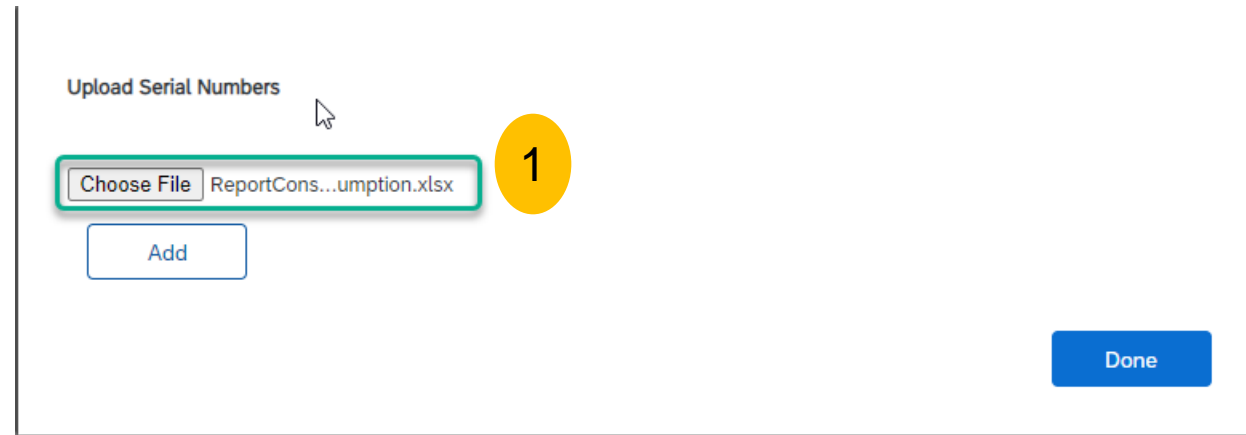
## Serial Number Validation During Component Consumption In Report Consumption Via Excel

### 1. Login as a supplier

- Navigate to the details view of a subcontracting purchase order from the orders workbench worklist by selecting the PO.
- In the PO details screen select the button “Report Consumption” to navigate to the “Create Consumption document” UI.
- Enter value for the input field “Document No”
- Select the *Manage Serial Numbers* → *Download Serial Numbers* option to download the excel template to report component consumption information.
- Fill the Excel with the relevant data and include the serial numbers of the component which are not present in the component inventory.
- Select *Upload Serial Numbers* options and choose the above created file by selecting the *Choose File* option in the pop-up.
- Select the Add button to upload the file an error message is displayed details are shown in the later sections.

# Feature Details

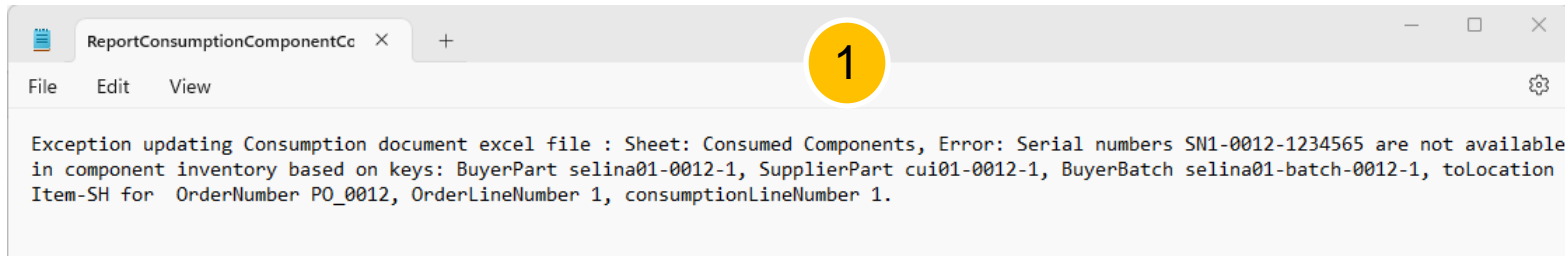
## Uploading Serial Numbers for Consumed Component Via Excel From Create Component Consumption Document UI



- In *Create Component Consumption Document UI* Choose the option *Manage Serial numbers* → *Upload Serial numbers* option to upload consumption Excel file shown by 1 to the left with serial numbers that are not present in component inventory
- Select *Add* button and a link with errors for download as shown in 2 to the left is displayed.

# Feature Details

## Uploading Serial Numbers for Consumed Component Via Excel From Create Component Consumption Document UI Cont..



- The error log provides information of the errors as shown in 1 from the upload of components with serial numbers that are not available in the component inventory UI.

# Feature Details

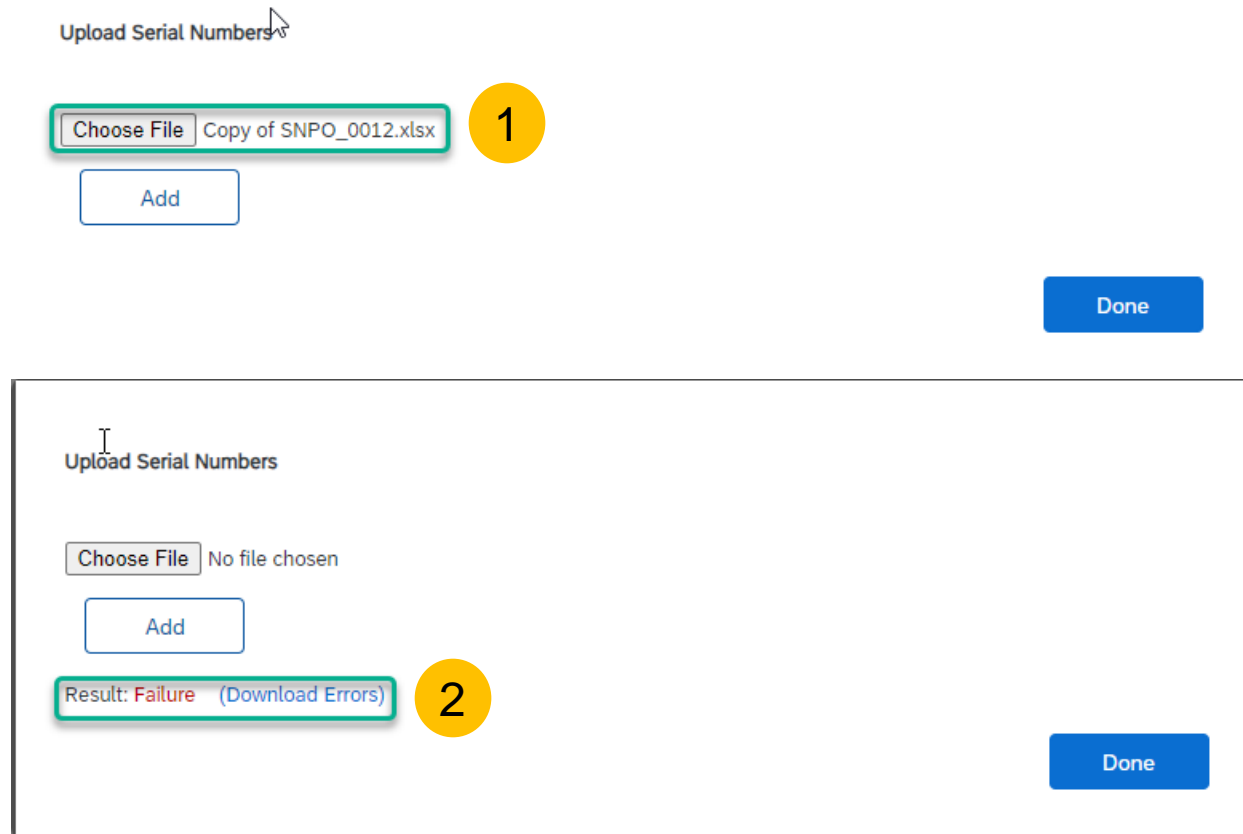
## Serial Number Validation During Component Consumption In ASN Via Excel

### 1. Login as a supplier

- Navigate to the *ASN creation UI* for a subcontracting purchase order from one of the different UIs like *PO Details UI*, *Items to Ship UI* etc...
- In the *Create Ship Notice UI* screen enter the required information like *Packing slip ID*, *Delivery Date*.
- Select the *Manage Serial Numbers → Download template* option to download the excel template to create ASN.
- Fill the Excel with the relevant data for creating ASN and include the serial numbers of the component which are not present in the component inventory.
- Select *Upload new file* option and choose the above created file by selecting the *Choose File* option in the *Upload Serial Numbers* pop-up.
- Select the Add button to upload the file an error message is displayed details are shown in the later sections.

# Feature Details

## Uploading Serial Numbers for Consumed Component Via Excel From Create Ship Notice UI

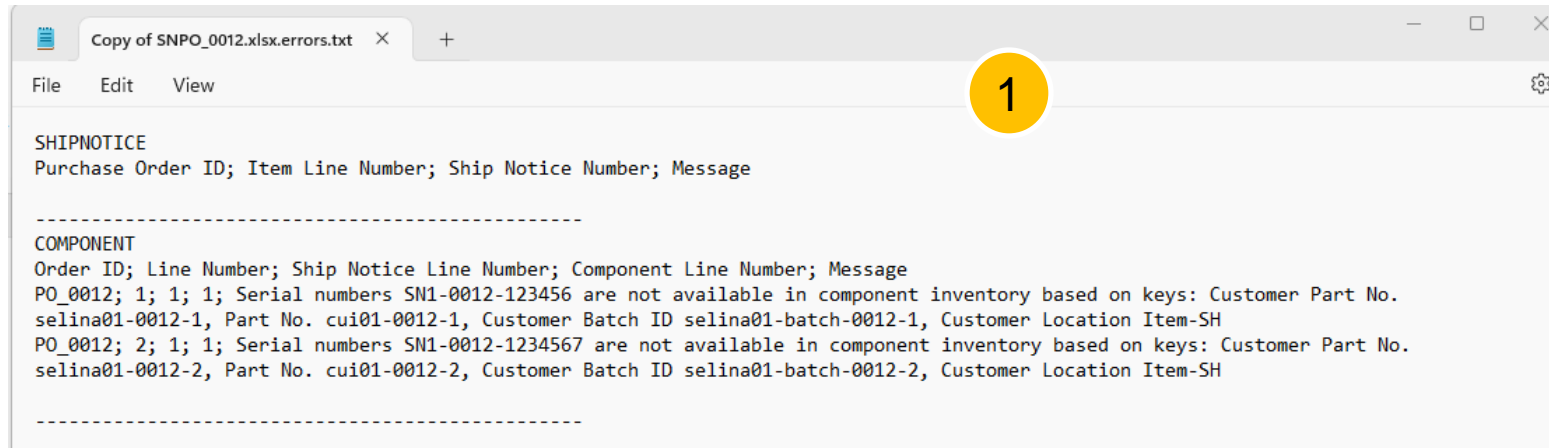


The screenshot shows the 'Upload Serial Numbers' interface. At the top, there is a header 'Upload Serial Numbers' with a cursor icon. Below it, a file selection area contains a 'Choose File' button and the text 'Copy of SNPO\_0012.xlsx'. To the right of this area is a yellow circle with the number '1'. Below the file selection area is an 'Add' button. To the right of the 'Add' button is a blue 'Done' button. The entire interface is enclosed in a light gray border.

- In *Create Ship Notice UI* Choose the option *Manage Serial numbers* → *Upload New File* to upload ASN creation *Excel file* shown by 1 to the left with serial numbers of components that are not present in component inventory.
- Select *Add* button and a link with errors for download as shown in 2 to the left is displayed.

# Feature Details

## Uploading Serial Numbers for Consumed Component Via Excel From Create Ship Notice UI Cont..



```
Copy of SNPO_0012.xlsx.errors.txt
File Edit View
SHIPNOTICE
Purchase Order ID; Item Line Number; Ship Notice Number; Message
-----
COMPONENT
Order ID; Line Number; Ship Notice Line Number; Component Line Number; Message
PO_0012; 1; 1; 1; Serial numbers SN1-0012-123456 are not available in component inventory based on keys: Customer Part No.
selina01-0012-1, Part No. cui01-0012-1, Customer Batch ID selina01-batch-0012-1, Customer Location Item-SH
PO_0012; 2; 1; 1; Serial numbers SN1-0012-1234567 are not available in component inventory based on keys: Customer Part No.
selina01-0012-2, Part No. cui01-0012-2, Customer Batch ID selina01-batch-0012-2, Customer Location Item-SH
-----
```

- The error log provides information of the errors as shown in 1 from the upload of ASN creation Excel containing components with serial numbers that are not available in the component inventory UI.



## Feature Details

### **Serial Number Validation During Component Consumption Other Excel Upload And B2B Scenarios**

1. Validation of serial numbers of consumed components against the serial numbers in the component inventory happens
  - When uploading Excel for Component Consumption via Upload/Download section.
  - In B2B scenario where the supplier sends the consumption information or ASN with component consumption information via B2B scenario.

# Thank you.

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