



SAP Ariba 

Feature at a Glance

Serial number visibility and reporting

Franz Uhr, SAP Ariba
Target GA: May 2019

CONFIDENTIAL

Feature at a Glance

Introducing: **Serial number visibility and reporting**

Ease of implementation  Low touch / simple
Geographic relevance  Global

Customer challenge

So far not all relevant information related to serial numbers in purchase orders could be extracted in a consolidated view. With existing reporting capabilities, serial number information was spread over different reports and a supplier would need to manually reconcile them.

Meet that challenge with **SAP Ariba**

This feature allows suppliers to view serial number information on the purchase order in the line item details. There is a new serial number report template that buyers and suppliers can use to extract serial numbers from orders without opening them one by one. To ensure consistency when sharing information between the involved parties this extract needs to be available for buyers and suppliers.

Experience key benefits

Serial number handling and tracking is a common way of managing critical parts along the supply chain. Being able to share serial number information with suppliers is critical to support an automated collaborative process end-to-end. Visibility and consolidated reporting on serial numbers enhances the process efficiency and usability of the solution.

Solution area

SAP Ariba Supply Chain Collaboration

Implementation information

This feature is **automatically on** for all customers with the applicable solutions and is ready for immediate use.

Prerequisites and Limitations

Buyers and suppliers that use their own cXML-enabled applications must use cXML 1.2.037 or later.

Feature at a Glance

Introducing: Serial number visibility and reporting

Detailed feature information – Serial number visibility in orders

Buyers can include serial number information in the orders they send to suppliers. However, previously this information was not displayed in orders in the Ariba Network user interface. For transparency, serial number information is now included in line item details.

United States

Line Items [Show Item Details](#)

Line #	Part #	Customer Part #	Type	Category	Return	Revision Level	Qty (Unit)	Need By	Customer Location
1	AX4518	BuyerPartID-130918	Material	Subcontract			31 (PK)	25 Feb 2016	Summary

Description: BULLNOSE SHELVES 10 PK
Planning Type: ATO

Retail Details

Promotion Deal ID: 8-13
Promotion Variant ID: 7-89

Status

11 Shipped	Shipment Id: asn181001034207x2W
31 Unconfirmed	

Priority

Level: Critical
Date and Time: Monday 1 Oct 2018 10:41 PM GMT+02:00

Accounting

G/L Account	Entertainment	23456
Cost Center	Western Region Sales	2323

Schedule Lines [Show Schedule Line Details](#)

Schedule Line #	Delivery Date	Ship Date	Quantity (Unit)
	15 Jan 2015 9:00 AM CET		2 (PK) Show Components
	22 Jan 2015 9:00 AM CET		2 (PK)

Information on Ship Notice [Optional]

Serial Numbers
Details

If serial numbers are specified as a profile or a range, they appear under Serial Numbers.

If the format is a list, click Details to see the list of serial numbers for the item. The Items serial number window appears

Feature at a Glance

Introducing: Serial number visibility and reporting

The screenshot displays a SAP S/4HANA interface with a modal window titled "Items serial number" overlaid on a purchase order line item. The background shows a table with columns for Line #, Part #, Customer Part #, Type, Category, Return, Revision Level, Qty (Unit), Need By, and Customer Location. The line item details include:

- Line #: 1, Part #: AX4518, Customer Part #: BuyerPartID-130918
- Description: BULLNOSE SHELVES 10 PK
- Planning Type: ATO
- Retail Details: Promotion Deal ID: 8-13, Promotion Variant ID: 7-89
- Status: 11 Shipped, 31 Unconfirmed, Shipment Id: asn181001034207xXW
- Priority: Level: Critical, Date and Time: Monday 1 Oct 2018 10:41 PM GMT+02:00
- Accounting: G/L Account, Cost Center
- Schedule Lines: 15 Jan 20, 22 Jan 20
- Information on Ship Notice [Optional]: Serial Numbers, Details
- Other Information: BuyerPartID: AXDA004

The modal window "Items serial number" contains the following information:

- Supplier: selsup181001023527Mnu
- Part no.: AX4518
- Part Description: BULLNOSE SHELVES 10 PK
- Customer part no.: BuyerPartID-130918
- Customer part description: BULLNOSE SHELVES 10 PK
- Purchase order: po181001033Tjv
- Line item no.: 1
- Quantity: 31

Below the details, the modal shows a list of 11 items with a page selector set to 1. The list contains the following serial numbers:

- SN1
- SN10
- SN11
- SN2
- SN3
- SN4
- SN5
- SN6
- SN7
- SN8

The modal also includes a "Done" button at the bottom right.

Limitation: The Items serial number window can display up to 500 serial numbers. If there are more than 500 serial numbers for the item, download the full list.

Feature at a Glance

Introducing: Serial number visibility and reporting

Serial number cXML examples

Use the `SerialNumberInfo` element to specify serial numbers for a line item. Serial numbers can be specified as a list, range, or profile.

Here is an example of serial numbers specified as a list:

```
<SerialNumberInfo requiresSerialNumber="yes"
  type="list">
  <SerialNumber>3482918</SerialNumber>
  <SerialNumber>3123333</SerialNumber>
  <SerialNumber>5423325</SerialNumber>
</SerialNumberInfo>
```

Here is an example of serial numbers specified as a range (from 100,000 to 200,000):

```
<SerialNumberInfo requiresSerialNumber="yes"
  type="range">
  <PropertyValue name="range">
    <Characteristic domain = "minimum" value="100000"/>
    <Characteristic domain = "maximum" value="200000"/>
  </PropertyValue>
</SerialNumberInfo>
```

Here is an example of serial numbers specified as a profile (3 to 10 numeric characters):

```
<SerialNumberInfo requiresSerialNumber="yes"
  type="profile">
  <PropertyValue name="profile">
    <Characteristic domain = "type" value="numeric"/>
    <Characteristic domain = "minLength" value="3"/>
    <Characteristic domain = "maxLength" value="10"/>
  </PropertyValue>
</SerialNumberInfo>
```

For more information about `SerialNumberInfo`, see the *cXML reference guide* available at <http://cxml.org/>.

Feature at a Glance

Introducing: Serial number visibility and reporting

Detailed feature information

There is a new serial number report template that buyers and suppliers can use to extract serial numbers from orders without opening them one by one.

Ariba Supply Chain Collaboration

Test Mode

Company Settings ▾ Sourabh Kothari ▾ Help Center >>

HOME INBOX OUTBOX QUALITY PLANNING CATALOGS **REPORTS** UPLOAD/DOWNLOAD MESSAGES

CSV Documents ▾ Create ▾

Reports

Use CSV reports to track information on account usage, such as purchase orders and invoices. Report files are UTF-8 encoded. If your application does not read UTF-8, it might not display all Asian and accented characters in the downloaded file correctly.

Report Templates

Title ↑	Schedule Type	Report Type	Status	Last Run	Next Run	Created	Created By	Report Size
No items								

Run Download Edit Copy Delete **Create** Refresh Status

Create a new report template

Ariba Supply Chain Collaboration

Test Mode

Company Settings ▾ Sourabh Kothari ▾ Help Center >>

Report

Next Exit

Enter a title and description for this report. Check the Time Zone and Language settings. You can set the Time Zone and Language for each report. Then, select the Report Type. More

- 1 Report Description
- 2 Criteria

Title:* Serial No. report

Description: extract orders with serial nos.

Time zone: Europe/Berlin ▾

Language: English ▾

Report Type:* Serial Number Report ▾

Next Exit

Feature at a Glance

Introducing: Serial number visibility and reporting

Detailed feature information

Define report selection criteria, **Run** the report and **Download** the report once the job status has switched to 'Processed'.

The screenshot shows the 'Ariba Supply Chain Collaboration' interface. The top navigation bar includes 'HOME', 'INBOX', 'OUTBOX', 'QUALITY', 'PLANNING', 'CATALOGS', 'REPORTS' (highlighted), 'UPLOAD/DOWNLOAD', and 'MESSAGES'. A 'Test Mode' indicator is visible. The user is identified as 'Sourabh Kothari'. Below the navigation, the 'Reports' section contains a message about UTF-8 encoding. The 'Report Templates' table shows one report: 'Serial No. report' with a 'Manual' schedule type, 'Serial Number Report' type, and 'Queued' status. The 'Run' button is highlighted with a tooltip that says 'Run the report template'.

Title ↑	Schedule Type	Report Type	Status	Last Run	Next Run	Created	Created By	Report Size
Serial No. report	Manual	Serial Number Report	Queued		6 Mar 2019	6 Mar 2019	Sourabh Kothari	

This screenshot shows the same interface as above, but the report status is now 'Processed'. The 'Download' button is highlighted with a tooltip that says 'Download the processed report to your local drive'. A file explorer window is open on the left, showing the file 'serial_number_rep....csv'.

Title ↑	Schedule Type	Report Type	Status	Last Run	Next Run	Created	Created By	Report Size
Serial No. report	Manual	Serial Number Report	Processed	6 Mar 2019		6 Mar 2019	Sourabh Kothari	253 B

Feature at a Glance

Introducing: Serial number visibility and reporting

Detailed feature information

Following is the extract of a OrderRequest cxml for Purchase Order with serial number information on item level.

```
<ItemOut lineNumber="0001" quantity="3">
  <ItemID>
    <SupplierPartID>Non Catalog Item</SupplierPartID>
    <SupplierPartAuxiliaryID>LAXSPA001</SupplierPartAuxiliaryID>
    <BuyerPartID>PROC-FU-001</BuyerPartID>
  </ItemID>
  <ItemDetail>
    <UnitPrice>
      <Money currency="USD">31.40</Money>
    </UnitPrice>
    <Description xml:lang="en">FUs product</Description>
    <UnitOfMeasure>EA</UnitOfMeasure>
    <Classification domain="NotAvailable">23000000</Classification>
    <ManufacturerPartID>AX458</ManufacturerPartID>
    <ManufacturerName>2000496</ManufacturerName>
  </ItemDetail>
  <ScheduleLine lineNumber="0001" quantity="2" requestedDeliveryDate="20
    <UnitOfMeasure>EA</UnitOfMeasure>
  </ScheduleLine>
  <ItemOutIndustry planningType="ATO">
    <Priority level="1"/>
    <SerialNumberInfo requiresSerialNumber="yes" type="list">
      <SerialNumber>123</SerialNumber>
      <SerialNumber>ABC</SerialNumber>
      <SerialNumber>DEF</SerialNumber>
    </SerialNumberInfo>
  </ItemOutIndustry>
</ItemOut>
```

With the corresponding report download in excel

The screenshot shows the Microsoft Excel interface with the 'Data' tab selected. The report data is displayed in a table with columns A through I. The data rows correspond to the items in the cxml extract.

	A	B	C	D	E	F	G	H	I
1	Order No.	Supplier	Line Num	Quantity	UOM	Serial No.	Unit Price	Unit Price	Part Num
2	PO.serial-2019.01	SK Enterpr	1	3	EA	123	31.40	USD	Non Cat
3	PO.serial-2019.01	SK Enterpr	1	3	EA	ABC	31.40	USD	Non Cat
4	PO.serial-2019.01	SK Enterpr	1	3	EA	DEF	31.40	USD	Non Cat
5									
6	Report generated on 11 Mar 2019 7:48:24 PM GMT+01:00								
7									