



Feature at a Glance

Support for automatic generation of invoices for mixed orders in the 4R2 integration scenario

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Customer challenge

Currently, a manual step is required to create an invoice from a Service Entry Sheet (SES), negatively impacting customer productivity and causing a lag in creating the invoice from an SES, which in turn reduces supplier cash flow.

Meet that challenge with SAP Ariba

This feature enables automatic generation of invoices in Ariba Network against mixed orders containing both material and lean-service items in the Service Procurement with Ariba Network and SAP Fieldglass (4R2) integration scenario. Invoices are automatically generated from approved receipts (for material items) and approved service entry sheets (for lean-services items).

Experience key benefits

The auto generation of an invoice from an approved Service Entry Sheet (SES), removes a manual step of creating invoices from an SES, thus increasing productivity and reducing manual labor and reducing the time lag between SES and Invoice, improving supplier cash flow.

If the PO lean service line item does not include tax information, Ariba Network will create the invoice draft, to be reviewed by the supplier, in order to ensure the taxes are assigned prior to sending the invoice.

Solution area

Ariba Network

Implementation information

This feature is automatically on for all customers with the applicable solutions but requires **customer configuration**.

Prerequisites and Restrictions

Please see the following slide for a complete listing.

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Prerequisites

- To enable automatic generation of invoices from receipts:
 - Buyers must ensure that the country-region-based invoice rule, **Enable automatic invoice creation from receipts** is enabled.
 - Buyers must ensure that the **Require suppliers to include only received quantities on invoices** invoice rule is enabled.
 - Buyers must ensure that the **Ignore country-based invoice rules** transaction rule is disabled in the Ariba Network buyer account.
 - To ensure that line-item-level taxes for standard invoices are copied from the purchase order, the buyer must enable the **Copy tax from purchase order to standard invoice** default transaction rule.
 - If you do not see this rule, contact SAP Ariba Support to enable the Convert to Ariba Open Network option for your buyer account
 - Suppliers must confirm automatic invoice creation for each buyer that has enabled the rule.
- To enable automatic generation of invoices from service sheets:
 - Buyers must ensure that the country-region-based invoice rule, **Enable automatic generation of invoices from approved service entry sheets** is enabled.
 - Buyers must ensure that the **Ignore country-based invoice rules** transaction rule is disabled in the Ariba Network buyer account.
 - Buyers must ensure that the **Auto-generate service sheets from service invoices** transaction rule is disabled in the Ariba Network buyer account.
 - If your order contains lean-services items:
 - Ensure that the following integration scenarios have been implemented:
 - Automation of Source-to-Pay with Ariba Network (42K)
 - Service Procurement with Ariba Network and SAP Fieldglass (4R2)
 - Ensure that the **Enhanced order confirmation integration capabilities for hosted and integrated suppliers** entitlement is enabled.
 - Ensure that the following transaction rules are enabled in the Ariba Network buyer account:
 - Allow exchange of documents between Ariba Network, SAP Fieldglass, and SAP S/4HANA or SAP S/4HANA Cloud, for services procurement
 - Require suppliers to fully confirm line items before fulfillment
 - Require delivery dates for order confirmations

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Restrictions

- This feature is not applicable to suppliers who invoice through an integrated ERP system.
- Automatic generation of credit memos from correction service entry sheets is not supported.
- Allowances and charges information in the purchase orders is not carried over to the automatically created invoices.
- Enabling the **Allow suppliers to create invoices directly from service POs without a service sheet** rule takes no effect when the **Allow exchange of documents between Ariba Network, SAP Fieldglass, and SAP S/4HANA or SAP S/4HANA Cloud, for services procurement** rule is enabled.

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Generate invoice Supplier Settings

- A. The supplier must accept the option of automatic invoice creation in the system to enable this capability.
- B. The supplier can choose to send the invoice automatically or create a draft. If they choose to send automatically and do not include tax information, the invoice will be created as a draft regardless.

Account Settings

Customer Relationships Users Notifications Application Subscriptions Account Registration API management

Current Relationships Potential Relationships Automatic Invoice Creation Acceptance More...

Customer: Buyer 4R2 Nagendra

Routing Type	Source	Response Status	Acceptance/Rejection Date	Respond
Default	Receipt Invoice generation	Accepted	1 Feb 2022	Respond
Default	Service Sheet Invoice generation	Accepted	15 Feb 2022	Respond

Confirm Automatic Invoice Creation from Service Sheet

Please specify whether to allow the Ariba Network to automatically create invoices from service sheet for jUnitOrg - qmmyWlQj5fab8ac030000

Yes

Actions

- Save invoice as draft
- Submit invoice

Authorizes Ariba, using the Ariba Network functionality, to automatically create a draft invoices based on service sheet approved by jUnitOrg - qmmyWlQj5fab8ac030000

Every time the Ariba Network receives a service sheet approved that applies to a single order from jUnitOrg - qmmyWlQj5fab8ac030000, the system will use information from the service sheet and the corresponding order to automatically create a draft invoice. The tax amount must be specified on orders by jUnitOrg - qmmyWlQj5fab8ac030000.

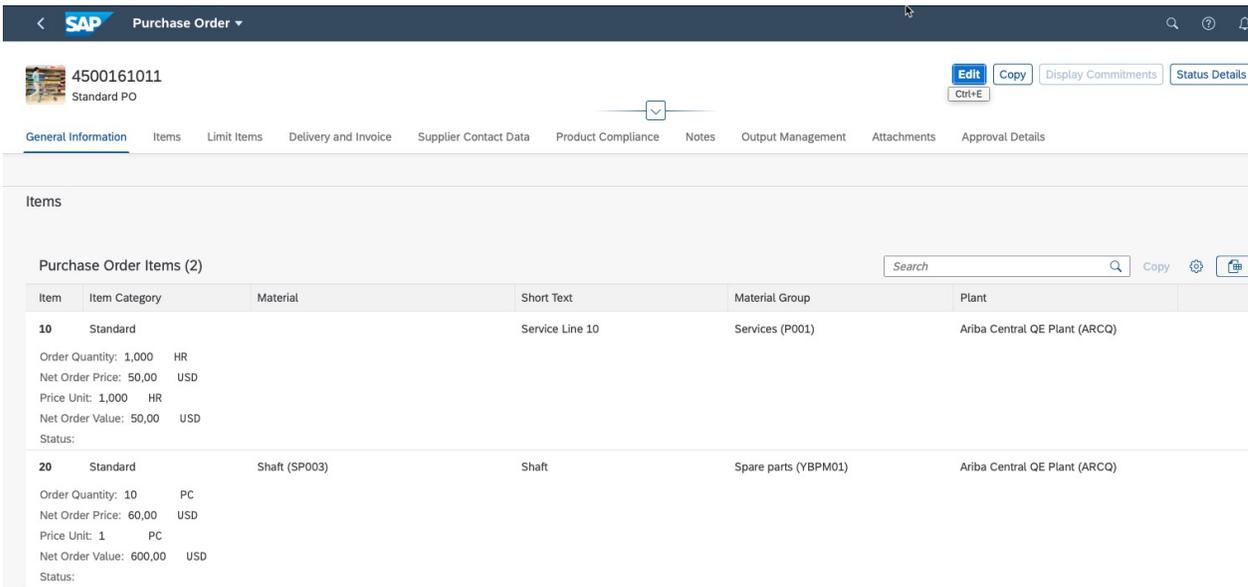
This rule applies only if suppliers agree to create invoices automatically from Service Sheet. If you allow suppliers to automatically create invoices from service sheet, you must specify the tax amount in the orders. An invoice is automatically created for a service sheet it applies to a single PO.

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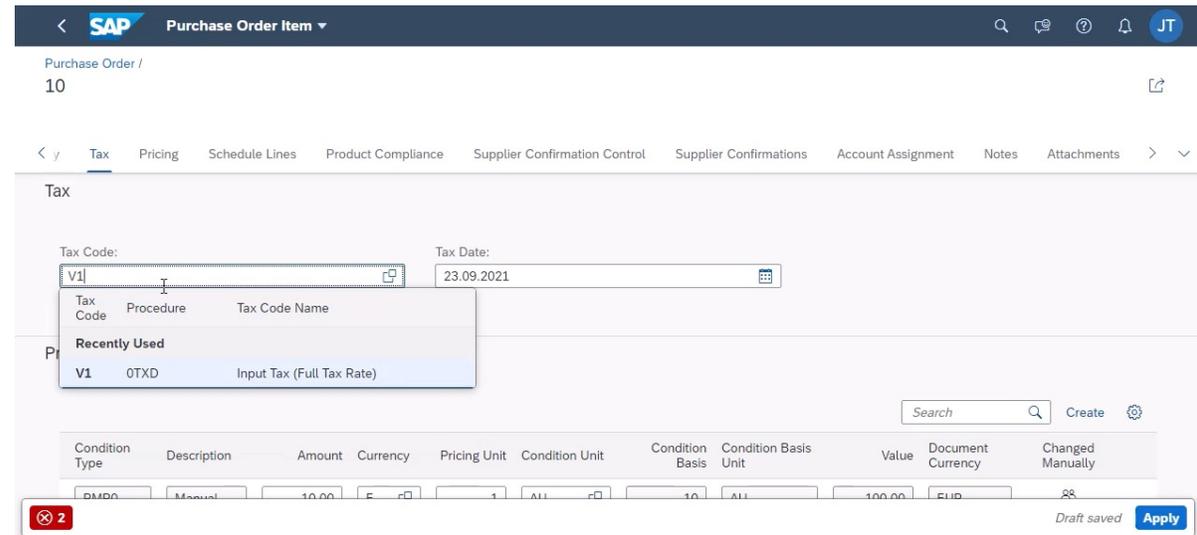
A buyer creates a purchase order in SAP S/4HANA or SAP S/4HANA Cloud

- A. Buyer fills in purchase order details.
- B. Tax information, including proper tax code and county specific information must be included in order for auto-flip to occur.



The screenshot shows the SAP Purchase Order main screen. The header includes the SAP logo, 'Purchase Order', and navigation icons. Below the header, the purchase order number '4500161011' is displayed as a 'Standard PO'. A search bar and several action buttons (Edit, Copy, Display Commitments, Status Details) are visible. The main content area is divided into tabs: General Information, Items, Limit Items, Delivery and Invoice, Supplier Contact Data, Product Compliance, Notes, Output Management, Attachments, and Approval Details. The 'Items' tab is active, showing a table of 'Purchase Order Items (2)'. The table has columns for Item, Item Category, Material, Short Text, Material Group, and Plant. Two items are listed: Item 10 (Service Line 10) and Item 20 (Shaft).

Item	Item Category	Material	Short Text	Material Group	Plant
10	Standard		Service Line 10	Services (P001)	Ariba Central QE Plant (ARCO)
Order Quantity: 1,000 HR Net Order Price: 50,00 USD Price Unit: 1,000 HR Net Order Value: 50,00 USD Status:					
20	Standard	Shaft (SP003)	Shaft	Spare parts (YBPM01)	Ariba Central QE Plant (ARCO)
Order Quantity: 10 PC Net Order Price: 60,00 USD Price Unit: 1 PC Net Order Value: 600,00 USD Status:					



The screenshot shows the SAP Purchase Order Item Tax screen. The header includes the SAP logo, 'Purchase Order Item', and navigation icons. Below the header, the purchase order number '10' is displayed. The main content area is divided into tabs: Tax, Pricing, Schedule Lines, Product Compliance, Supplier Confirmation Control, Supplier Confirmations, Account Assignment, Notes, and Attachments. The 'Tax' tab is active, showing a 'Tax' section with fields for 'Tax Code' (V1) and 'Tax Date' (23.09.2021). A dropdown menu is open, showing 'Recently Used' tax codes: V1 (0TXD) and Input Tax (Full Tax Rate). Below the dropdown is a table with columns: Condition Type, Description, Amount, Currency, Pricing Unit, Condition Unit, Condition Basis, Condition Basis Unit, Value, Document Currency, and Changed Manually. The table contains one row with values: BMD0, Manual, 10,00, EUR, 1, AU, 10, AU, 100,00, EUR, and a red 'X' icon. At the bottom right, there is a 'Draft saved' message and an 'Apply' button.

Condition Type	Description	Amount	Currency	Pricing Unit	Condition Unit	Condition Basis	Condition Basis Unit	Value	Document Currency	Changed Manually
BMD0	Manual	10,00	EUR	1	AU	10	AU	100,00	EUR	X

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Cloud Integration Gateway confirms the purchase order was sent

- Looking up the purchase order via Cloud Integration Gateway shows status completed, indicating purchase order was sent.

The screenshot displays the SAP Cloud Integration Gateway Transaction Tracker interface. The top navigation bar includes the SAP logo, 'Cloud Integration Gateway', and various menu items like Home, My Configurations, Document Validator, Connectivity Tool, Transaction Tracker (highlighted), Resources, Master Characteristics, Test Central, Http Logs, and Audit Logs. The main content area is titled 'Transaction Tracker' and contains search filters for Environment (TEST selected), Search From (May 5, 2022), To (May 6, 2022), and Transaction Number (4500161011). On the right, there are dropdown menus for Document Status (Select a document status), Document Type, Sender (Ariba Network ID), and Receiver (Ariba Network ID). Below the filters, there are buttons for '10' (dropdown), 'Reprocess', 'Results Export', 'Download', 'Search', and 'Clear'. A table below shows the search results with columns: Transaction Number, Document Type, Sender, Receiver, Document Status, Destination, and Date Last Modified. The first row shows a transaction with ID 4500161011, Document Type 'OrderRequest', Sender 'AN02007410555-T IES-Integration - TEST', Receiver 'AN02007489011-T Supplier for 4AZ-TEST', Document Status 'COMPLETED' (highlighted in a red box), Destination 'https://psg1-auth.fgvm.com/ws2/services/connectorn', and Date Last Modified '5/6/22, 2:44'.

Transaction Number	Document Type	Sender	Receiver	Document Status	Destination	Date Last Modified
<input type="checkbox"/> 4500161011	OrderRequest	AN02007410555-T IES-Integration - TEST	AN02007489011-T Supplier for 4AZ-TEST	COMPLETED	https://psg1-auth.fgvm.com/ws2/services/connectorn	5/6/22, 2:44

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Supplier views purchase order on Ariba Network and confirms

- A. The supplier is able to search for the purchase order on Ariba Network.
- B. Opening the purchase order, the supplier is able to confirm it.

The screenshot displays the SAP Business Network interface. At the top, the navigation bar includes 'Business Network', 'Enterprise Account', and a 'Back to classic view' link. Below this, a search bar contains 'Orders and Releases', 'All customers', 'Exact match', and the purchase order number '4500161011'. A yellow circle 'A' highlights the search button. The main content area shows a dashboard with three metrics: 23 Invoices, 378 Orders, and \$0.0 USD Remittances. Below the dashboard, there are 'My widgets' and a 'Purchase orders' widget. On the right, the 'Purchase Order: 4500161011' details are shown, including a 'Confirm Entire Order' button highlighted with a red box and a yellow circle 'B'. The order details include 'From: Customer', 'To: Supplier for 4AZ-TEST', and 'Purchase Order (Invoiced) 4500161011 Amount: \$650.00 USD'. The bottom section contains 'Payment Terms' (2.0% 14, 0% 30), 'Contact Information', and 'Supplier Address' for 'Supplier for 4AZ'.

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The buyer can now see purchase order confirmation in SAP S/4HANA or SAP S/4HANA Cloud

The screenshot displays the SAP S/4HANA interface for a Purchase Order Item. The breadcrumb navigation shows 'Purchase Order Item' with a dropdown arrow. The item number is '4500161011 / 20' and the status is 'Standard'. The 'Supplier Confirmations' tab is active, showing a table with one confirmation entry. Below this, the 'Account Assignment' section shows a table with one entry for 'Purchase Order Item Account Assignments (1)'. The interface includes standard SAP navigation elements like search, help, and notification icons.

Supplier Confirmations (1)

Sequential ...	Confirm. Ca...	Start Date	End Date	Service Performer	Delive... ⌵	Time	Quantity	Expected Value
1	LA				05/07/2022	06:30:00 AM	10 PC	0,00 USD

Account Assignment

Purchase Order Item Account Assignments (1)

Account Ass...	Cost Center	G/L Account	Distribution...
1	Financials Newest (17101101)	3rd party material (61002000)	0,0 >

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Logging into SAP Fieldglass

A. The buyer can see the purchase order details as a statement of work.

The screenshot displays the SAP Fieldglass user interface. At the top, there is a navigation bar with the SAP Fieldglass logo, a search bar, and user information (Wagner, Kevin | 0991). Below the navigation bar, the main content area shows the 'Statements of Work List' for ID 4500161011. The status is 'Approved' and the buyer is 'LUKOIL'. A yellow circle with the letter 'A' highlights the 'Statement of Work Details' section, which is outlined in red. This section contains a table with various fields and values, including 'Buyer Reference', 'Supplier Reference', 'Billable?' (Yes), 'Master SOW?' (No), 'Purchase Unit' (ARCQ (ARCO)), 'Site' (Ariba Central OE (ARCO)), 'Location' (Ariba Central OE (ARCO)), 'Business Unit' (ARCQ), and 'Description' (4R2 Purchase Order). To the left of the 'Statement of Work Details' section, there are two other sections: 'Accounting (USD)' and 'Posting Information'. The 'Accounting (USD)' section shows budget details, and the 'Posting Information' section shows owner, creator, and contact person details.

Status	Statement of Work ID	Period	Buyer
Approved	VELBTQ00000607	05/06/2022 to 05/07/2022	LUKOIL

Accounting (USD)	
Maximum Budget	650.00
Spend to Date	50.00
Other Pending Spend	0.00
Remaining Budget	600.00
Cost Allocation	%
4R2 US CC (17101101)	
3rd party material (61002000)	100.000
Total	100.000

Posting Information	
Owner	4R2BUYERANID
Creator	4R2BUYERANID
Supplier Primary Contact Person	Wagner, Kevin
Create Date	05/06/2022

Statement of Work Details	
Buyer Reference	
Supplier Reference	
Billable?	Yes
Master SOW?	No
Purchase Unit	ARCQ (ARCO)
Site	Ariba Central OE (ARCO)
Location	Ariba Central OE (ARCO)
Default Remit-to Address	
Business Unit	ARCQ
Description:	4R2 Purchase Order
Defined By	Buyer and Supplier
Characteristics	Schedules Events Fees

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Logging into SAP Fieldglass

- A. The supplier can also log in to SAP Fieldglass to create a fee.
- B. Fee information is shown in the characteristics section.

The screenshot displays the SAP Fieldglass interface for a Statement of Work (SOW) with ID 4500161011. The interface is divided into several sections:

- Accounting (USD):** Shows budget details such as Maximum Budget (650.00), Spend to Date (50.00), Other Pending Spend (0.00), and Remaining Budget (600.00).
- Statement of Work Details:** Includes fields for Buyer Reference, Supplier Reference, Billable? (Yes), and Master SOW? (No).
- Posting Information:** Shows submission details like Submitted By (Wagner, Kevin) and Submit Date (05/06/2022 03:31 AM).
- Fee Payments (USD):** A table showing fee payments with columns for #, Name, PO Number, Description, Owner, Capitalized?, Units, Rate /Unit, and Amount. The table contains one entry for Service Line 10 with a rate of 50.00 /HUR and a total amount of 50.00.

A red box highlights the 'Create Fee' button in the 'Actions' menu, and a yellow circle 'A' is next to it. Another yellow circle 'B' is next to the 'Fee Payments (USD)' section.

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Logging into SAP Fieldglass

- A. The supplier can also log in to SAP Fieldglass to create a fee.
- B. Fee information is shown in the characteristics section.
- C. **The fee ID will match the service entry sheet ID in Ariba Network, SAP Fieldglass, and SAP S/4HANA or SAP S/4HANA Cloud.**

The screenshot shows the SAP Fieldglass interface for a fee. The fee ID is 4500161011. The fee ID 'VELBTU00000502' is highlighted with a red box. The interface includes sections for Accounting (USD), Fee Details, Posting Information, and Billing Information.

Accounting (USD)	
Requested Amount	50.00
Final Amount	50.00
Cost Allocation	%
4R2 US CC (17101101)	
3rd party material (61002000)	100.000
Total	100.000

Fee Details	
Defined By	Buyer and Supplier
Purchase Unit	ARCO (ARCO)
Site	Ariba Central QE (ARCO)
Auto Invoice	Yes
Remit-to Address:	

Posting Information	
Submitted By	Wagner, Kevin
Submit Date	05/06/2022 03:31 AM

Billing Information	
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Buyer Approval

- A. Buyer Approver logs in to SAP Fieldglass.
- B. Searches for the ID.
- C. And approves.

The image displays three sequential screenshots of the SAP Fieldglass interface, illustrating the 'Buyer Approval' process. The top screenshot shows the user logged in as 'ApproverDLAB | DLAB' with 27 items found. A yellow circle labeled 'B' highlights the search bar where the ID '4500042287' is entered. The middle screenshot shows the search results, with the selected item '4500042287' highlighted in blue. A yellow circle labeled 'C' highlights the 'Approve' button. The bottom screenshot shows the detailed view of the selected item, with the 'Approve' button still highlighted by the yellow circle 'C'.

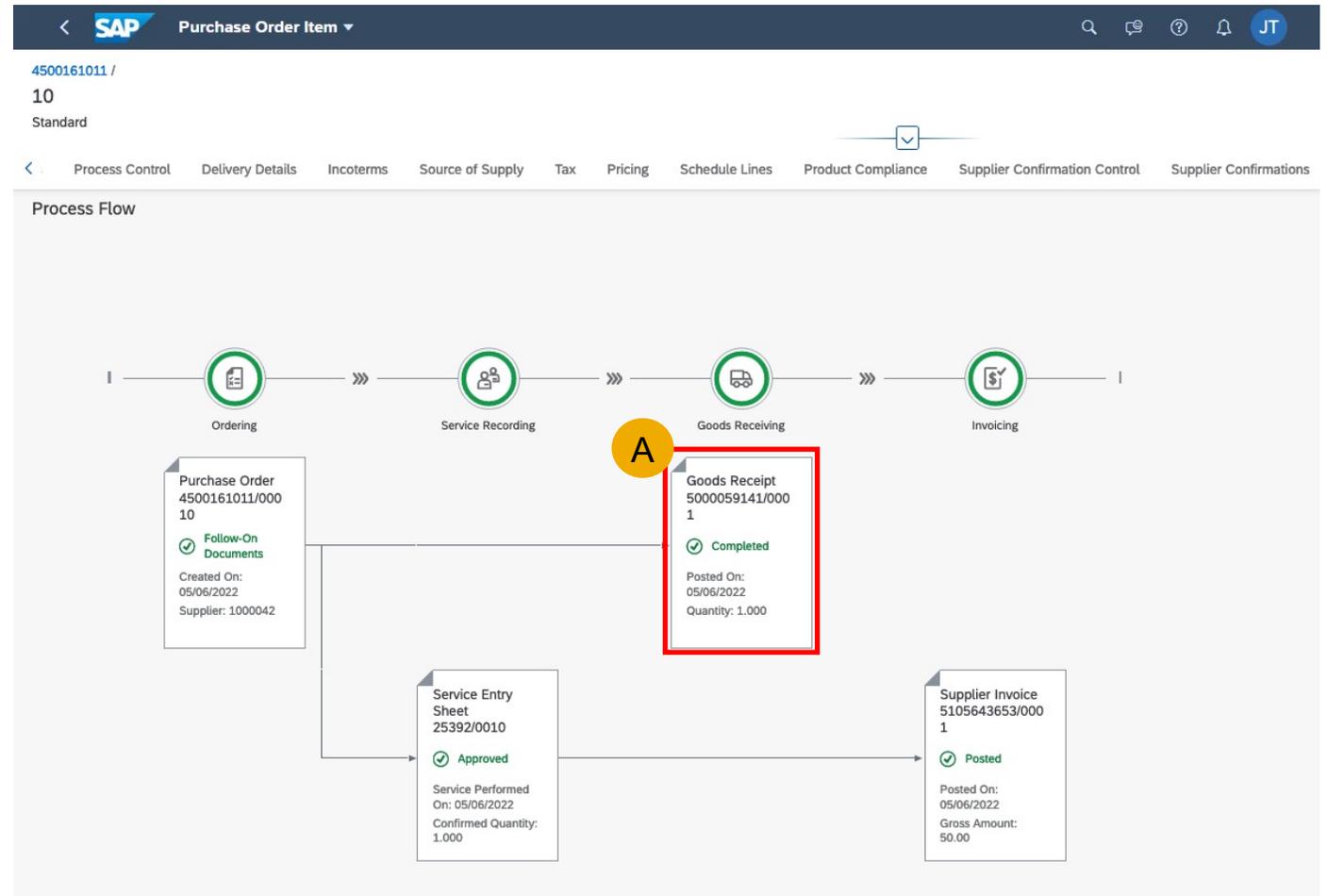
Received	ID	Statement of Work	Supplier	Effective On	Amount
09/23/2021	DLABTU00000823	4500042287	Inlandsieferant DE (ARB FG Integration) - 10300091	09/23/2021	100.00 EUR

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Goods Receipt

- A. Logging into SAP S/4HANA or SAP S/4HANA Cloud, we see that the goods receipt is visible.
- B. This is due to the fact that the service entry sheet is automatically approved in SAP S/4HANA or SAP S/4HANA Cloud.



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Generate invoice

- A. Because the service entry sheet (SES) is approved, Ariba Network autogenerated an invoice based on information from the SES. The invoice number is the same as the SES number.
- B. Ariba Network already generated a draft invoice when the service entry sheet was approved.
- C. Suppliers also receive an email, letting them know the invoice was created in Ariba Network.
- D. The supplier clicks the purchase order link to access it.

SAP Business Network Enterprise Account TEST MODE ← Back to classic view

Service Sheet: VELBTU00000502

Create Invoice Copy SES

Detail History

A Service Sheet (Invoiced) Subtotal: \$50.00 USD
VELBTU00000502
Date: 6 May 2022
Final Service Sheet: No
Purchase Order **D** 4500161011
ERP SES ID: 25392
Subtotal: \$50.00 USD
Service Start Date: 6 May 2022
Service End Date: 6 May 2022

From
LUKOIL
Supplier for 4AZ-TEST
1000 Chicago Street
Unit 1
Chicago, Illinois 60606
United States
Address ID: VELB

To
LUKOIL
IES-Integration - TEST
1000 Chicago Street
Unit 1
Chicago, Illinois 60606
United States
Address ID: VELB

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