

Intelligent Invoice Conversion - Identify Buyer Using TaxID and PO number for Invoices Sent Through Email

(NP-48723)

Target GA: November, 2024

Feature Overview

Agenda

- Introduction
- User story
- Prerequisites, Restrictions, Cautions
- Feature details

Introducing: Identification of buyer using Tax ID and PO number for Invoices sent through E-mail (NP-48723)

Feature Description

- The current inbound channel for PDF invoice submission to IIC has a hard constraint that the supplier has to correctly maintain the buyer AN ID in the E-mail subject line. Otherwise, buyer identification fails and the invoice gets rejected
- To mitigate the problem, it was decided to de-couple the buyer identification logic as much as possible from any manual input in the E-mail

Key Benefits

The new feature can identify a buyer from the attached invoice automatically under the following conditions:

1. Either the correct buyer Tax ID or a valid PO is maintained by the supplier in the PDF invoice
2. Buyer search using PO results in a unique result

Key benefits:

1. Robust and reliable E-mail process highly enhances accuracy via minimization of manual data entry errors
2. Greatly increases speed and efficiency of the inbound channel

Audience:

Supplier

Enablement Model:

Automatically On

Applicable Solutions:

SAP Business Network

User Story

- As a supplier, you can now send a pdf invoice to the network as an attachment to an E-mail from a white-listed E-mail ID without mentioning the buyer network ID in the subject line
- The process of sending E-mail is exactly same as the existing E-mail process other than the change that buyer network ID need not be maintained in the subject line
- Basic process steps are:
 - Maintain at least one template completely
 - Activate the E-mail inbound channel
 - Register the E-mail ID for sending PDF invoice
 - Send E-mail from the registered E-mail ID to the designated network mailbox
- This solution completely avoids manual data entry in the E-mail, thus vastly reducing manual error and greatly increasing speed and efficiency of the inbound channel
- As a result, you can now focus on your key invoicing activities rather than investing time in buyer look-up

Prerequisites, Restrictions, Cautions

Prerequisites

- Supplier has subscribed to Intelligent Invoice Conversion feature via the standard process
- At least one template has been trained and tested/ released to production
- Email inbound channel has been activated

Restrictions

- All explicit restrictions relevant to IIC usage (e.g. supplier type, invoice type, invoice size etc.) apply
- No additional restriction

Cautions

- None

Feature Details

- How the solution works:
 - First search for a buyer using the buyer Tax ID as it almost always results in a unique result
 - If the buyer Tax ID is wrong/ missing in the PDF invoice, search for a buyer using the PO number
 - Raise an error (send E-mail) if neither information is available
- Solution limitations:
 - Buyer identification will fail if buyer search by PO returns a result-set of multiple buyers
 - Similarly, buyer search will fail if the PDF invoice contains neither a correct buyer Tax ID or a valid PO
- The picture explains the various scenarios that may arise with potential outcomes. The following slides explain system navigation for some of the key scenarios

Scenario	Tax ID in PDF invoice	PO # in PDF invoice	Determination logic	Result	Status	Comment
Valid Tax ID Valid PO #	Valid	Valid	Identify buyer using Tax ID	Unique buyer determined	Success	Normally every buyer has unique Tax ID
Valid Tax ID Invalid PO #	Valid	Invalid	Identify buyer using Tax ID	Unique buyer determined	Success	Normally every buyer has unique Tax ID
Invalid Tax ID Valid PO #	Invalid	Valid	Identify buyer using PO #	Unique buyer determined	Success	When PO # is not duplicated across buyers
Invalid Tax ID Valid PO #	Invalid	Valid	Identify buyer using PO #	Multiple buyer determined	Failure	When PO # is duplicated across buyers
Invalid Tax ID Invalid PO #	Invalid	Invalid	Determination fails	No buyer determined	Failure	Automated error E-mail sent to supplier requesting explicit AN ID

Scenario 1

PDF invoice contains **valid customer Tax ID and **invalid** PO number**

Feature navigation – Step 1

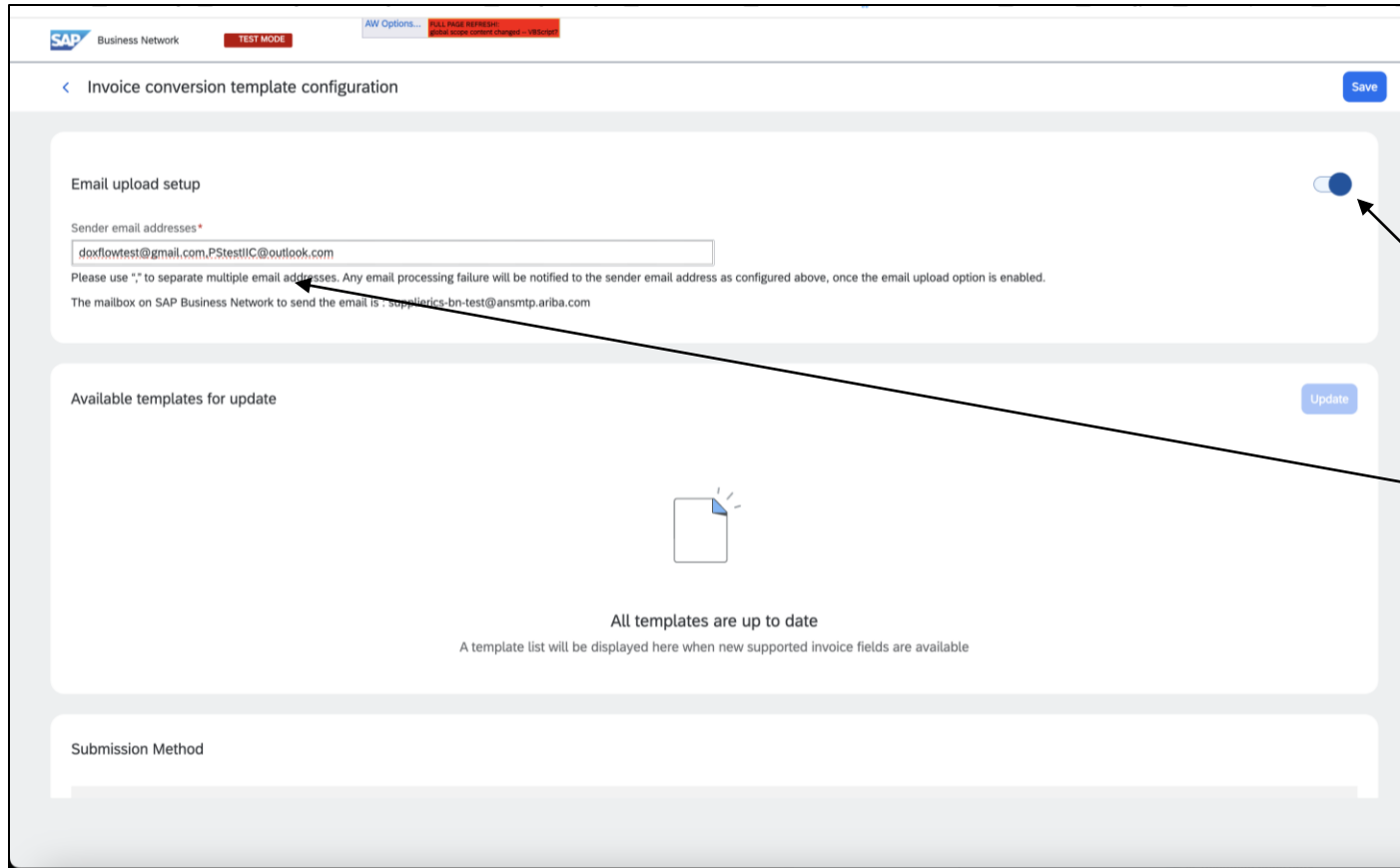
Logon to supplier account

The screenshot shows the SAP Business Network interface for a supplier account. The top navigation bar includes 'Home', 'Enablement', 'Discovery', 'Workbench', 'Orders', 'Fulfillment', 'Invoices', 'Payments', 'Catalogs', 'Reports', and 'Assessments'. A search bar is present with filters for 'Orders and Releases', 'All customers', and 'Exact match'. The main dashboard features several key metrics: 4 Orders to invoice (Last 31 days), 6 Orders (Last 31 days), 0 Rejected invoices (Last 31 days), \$0.0 USD Remittances (Last 31 days), and \$0.0 USD Early payment offers (Next 90 days). Below these are three widgets: 'Activity feed' showing two rejected invoices (InvoiceAuto001 for €2,000.00 EUR and InvoiceMan005 for €2,943.00 EUR), 'Purchase orders' showing \$1.06K USD with a line chart, and 'Invoice aging' showing \$9.17K USD with a bar chart. A user menu is open on the right, displaying the user 'fnSmith InJohn' (test-man03india@s.c) and options for 'My Account', 'Link User IDs', 'Contact Administrator', 'Company Profile', 'Settings', and 'Logout'.

This capability is available both in supplier test and production accounts

Feature navigation – Step 2

Setup supplier E-mail account for sending invoice

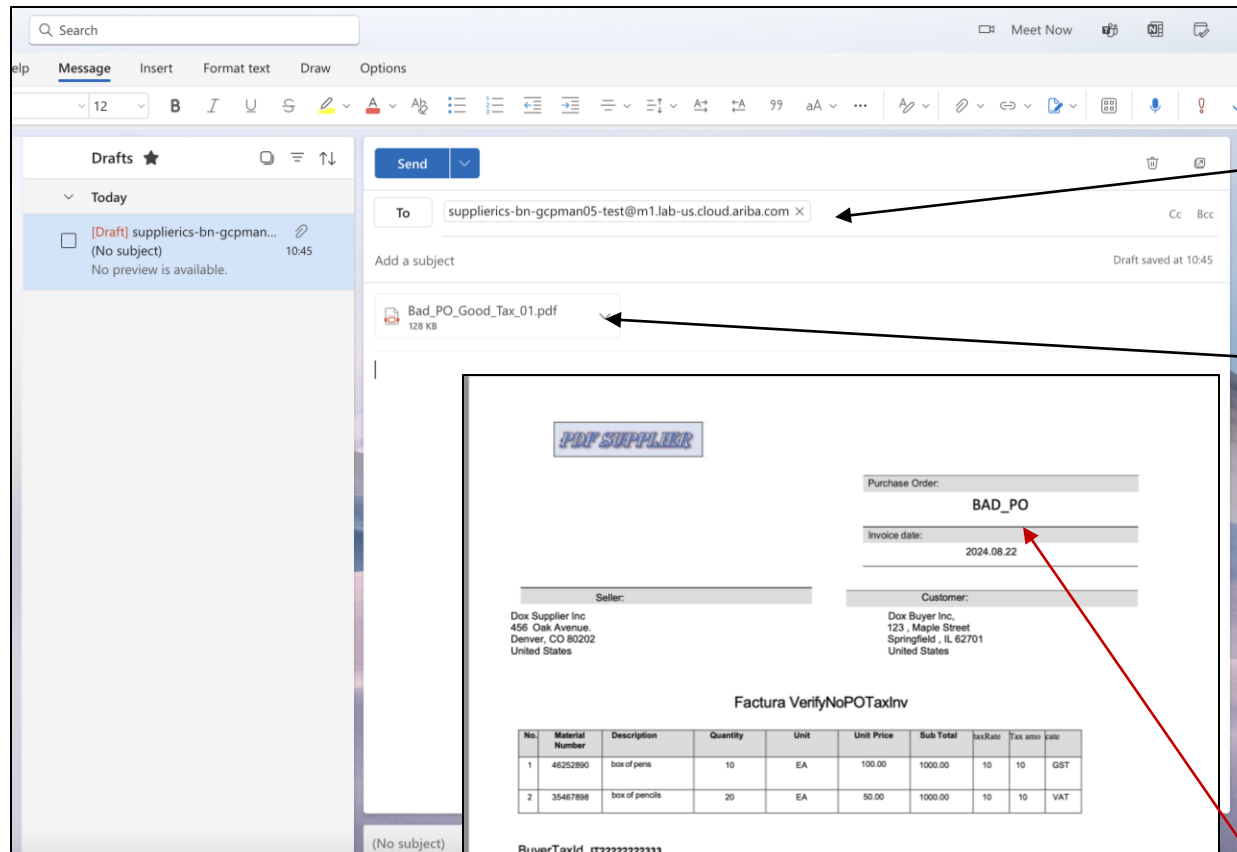


E-mail channel activated

Supplier E-mail maintained

Feature navigation – Step 3

Send pdf invoice via E-mail (Do not mention buyer AN ID in the E-mail)



Provide the correct mailbox where pdf invoice should be sent

PDF attachment

PDF invoice has the right customer TaxID but wrong PO #

PDF SUPPLIER

Purchase Order: **BAD_PO**

Invoice date: 2024.08.22

Seller:
Dox Supplier Inc
456 Oak Avenue
Denver, CO 80202
United States

Customer:
Dox Buyer Inc,
123 Maple Street
Springfield, IL 62701
United States

Factura VerifyNoPOTaxInv

No.	Material Number	Description	Quantity	Unit	Unit Price	Sub Total	TaxRate	Tax amo	Rate
1	46252890	box of pens	10	EA	100.00	1000.00	10	10	GST
2	35467898	box of pencils	20	EA	50.00	1000.00	10	10	VAT

BuyerTaxId IT2222222333

Sub Total: 2000.00
Total Gross Amount: 2000.00
Net Amount: 2000.00

Bank Details: ES00000000000000000000 SWIFT: PRSNN
Payment Terms: Bank Transfer 60 days from invoice date

Feature navigation – Step 4

Logon to supplier portal and navigate to “Invoice Conversions”

The screenshot displays the 'invoices' section of a supplier portal. At the top, there is a navigation bar with a message: "Need to customize your view of the data? Create your own tiles, save filters, and more by navigating to the Workbench page. Go to Workbench". Below this is a summary dashboard with seven tiles representing different invoice statuses: Rejected invoices (0), Overdue invoices - Not approved (0), Overdue invoices - Approved (0), Invoices pending approval (0), Approved invoices pending payment (0), Paid invoices (0), and Invoice Conversions (15). The 'Invoice Conversions' tile is highlighted with a blue bar and shows a count of 15 conversions for the last 14 days.

Below the dashboard, there is a section for 'Invoice Conversions (15)'. It includes a filter bar with a date range of 9/2/2024 - 9/26/2024. The filter options include Customers, Submission Date (Custom date range), Status (All), and Source file name (Type selection). There are radio buttons for 'Partial match' (selected) and 'Exact match'. An 'Apply' button and a 'Reset' button are also present.

The main content is a table with the following columns: Source File Name, Customer, Submission Method, Status, Reference, and Submission Date. The table contains four rows of data, with the first row highlighted in orange. An arrow points from the text 'PDF converted' to the 'Converted' status of the first row.

Source File Name	Customer	Submission Method	Status	Reference	Submission Date ↓
Bad_PO_Good_Tax_01.pdf	indiaman05@b.c - TEST	Email	Converted	VerifyNoPOTaxInv	Sep 26, 2024
Bad_PO_Good_Tax_01.pdf	indiaman05@b.c - TEST	Email	Converted		Sep 19, 2024
Good_PO_Bad_Tax_Sep19_PS02.pdf	man03india@b.c - TEST	Email	Converted		Sep 19, 2024
Good_PO_Bad_Tax_Sep19_PS02.pdf	man03india@b.c - TEST	Email	Converted		Sep 19, 2024

PDF converted

Feature navigation – Step 5

Verify buyer details in the invoice

Invoice Number: VerifyNoPOTaxInv
Invoice Date: Thursday, 22 Aug 2024 12:00 pm GMT-07:00
Original Purchase Order: BAD_PO

Subtotal:	2,000.00 EUR
Total Tax:	20.00 EUR
Total Gross Amount:	2,020.00 EUR
Total Net Amount:	2,020.00 EUR
Amount Due:	2,020.00 EUR

REMIT TO:
man03india@s.c - TEST
Postal Address:
jUnitDummy
Sunnyvale, CA 94089
United States
Tax ID of Supplier: ES B11111111

BILL TO:

SUPPLIER:
man03india@s.c - TEST
Postal Address:
jUnitDummy
Sunnyvale, CA 94089
United States

BILL FROM:
man03india@s.c - TEST
Postal Address:
jUnitDummy
Sunnyvale, CA 94089
United States

CUSTOMER:
indiaman05@b.c - TEST
Postal Address:
jUnitDummy
Sunnyvale, CA 94089
United States

SHIPPING INFORMATION:

SHIP FROM:
Dox Supplier Inc
Postal Address:
456
Oak Avenue
PDF SUPPLIER Purchase
Denver, CO 80202
United States

SHIP TO:
Dox Buyer Inc,
Postal Address:
123,
Maple Street
PDF SUPPLIER Purchase
Springfield, IL 62701
United States

ADDITIONAL INFORMATION:
Customer Tax ID: IT2222222333

Original Purchase Order: BAD_PO

PO does not exist in network

Buyer has been identified correctly

Buyer Tax ID is correct

Scenario 2

PDF invoice contains *invalid* customer Tax ID and *valid* PO number

Feature navigation – Step 1

PO is already created in the Network

Purchase Order: Sep19_PS02 Done

Create Order Confirmation | Create Ship Notice | Create Invoice

Order Detail | Order History

From:
Richard Parker
QA supplier
Po. Box 4421
Houston, TX 77210
United States

To:
man03india@s.c - TEST
JUnitDummy
Sunnyvale, CA 94089
United States
Phone: +1 (650) 3902788
Fax: +1 (650) 3902788
Email: dummytest@devlab.lab-us.gcprint.ariba.com

Purchase Order (New)
Sep19_PS02
Amount: 105.00 EUR
Version: 1

[Track Order](#)

Payment Terms: NET 30 | Routing Status: Sent

Comments: TEST ORDER -- DO NOT FILL

Contact Information:
Sales
Wilson Mike
2413 Avenue
Galena Park, TX 77547
United States
Phone: +1 (800) 4105818
Fax: +1 (713) 6782216
Address ID: 2019937

Buyer details

Purchasing Agent
H Tony Catanese

Ship All Items To:
Ariba Manchester Office
101 Buckingham Palace Rd
London, TX 77210
United States
Ship To Code: 121212
Phone: +44 (20) 12345
Fax: +44 (20) 12345
Email: manju.subbanna@sap.com

Bill To:
Richard Parker
QA supplier
Po. Box 4421
Houston, TX 77210
United States

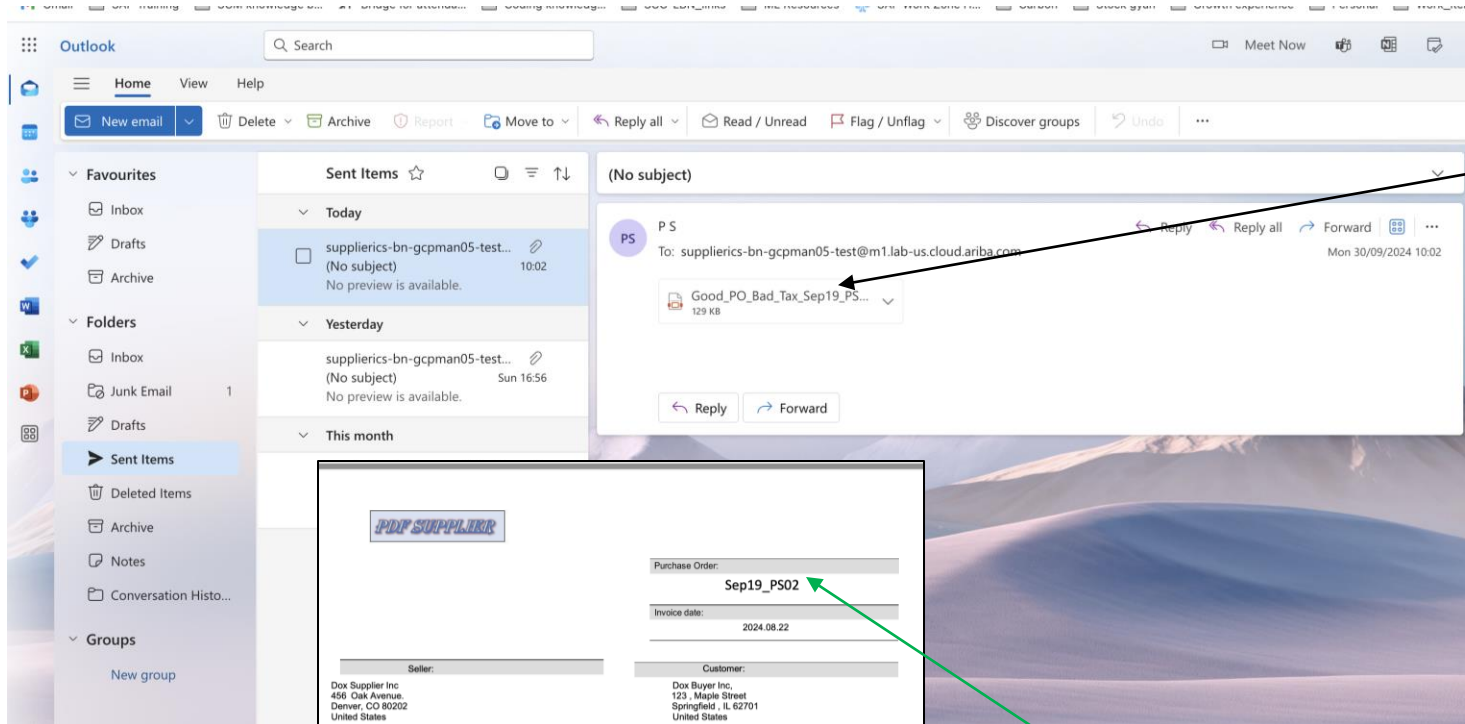
Deliver To:
Elizabeth Oscar

Line Items

Line #	No. Schedule Lines	Part # / Description	Type	Return	Qty (Unit)	Need By	Unit Price	Subtotal	Tax	Details
1		46252890	Material		10 (EA)	31 Dec 2013	100.00 EUR	1,000.00 EUR	1.00 EUR	Details

Feature navigation – Step 2

Send pdf invoice via E-mail (Do not mention buyer AN ID in the E-mail)



PDF invoice attached

PDF SUPPLIER

Purchase Order: **Sep19_PS02**

Invoice date: 2024.08.22

Seller:
Dox Supplier Inc
456 Oak Avenue,
Denver, CO 80202
United States

Customer:
Dox Buyer Inc,
123 Maple Street
Springfield, IL 62701
United States

Factura VerifyNoPOTaxInv

No.	Material Number	Description	Quantity	Unit	Unit Price	Sub Total	taxRate	tax amo	rate
1	46252890	box of pens	10	EA	100.00	1000.00	10	10	GST
2	35467898	box of pencils	20	EA	50.00	1000.00	10	10	VAT

BuyerTaxId IT222222

Sub Total: 2000.00
Total Gross Amount: 2000.00
Net Amount: 2000.00

Bank Details: ES000000000000000000000000 SWIFT: PRSNN
Payment Terms: Bank Transfer 60 days from invoice date

PDF invoice has the right PO #
but wrong customer Tax ID

Feature navigation – Step 3

Logon to supplier portal and navigate to “Invoice Conversions”

The screenshot displays the SAP Business Network 'Invoices' page. At the top, there's a navigation bar with 'Invoices' selected. Below it, a summary row shows various invoice statuses: Rejected invoices (0), Overdue invoices - Not approved (0), Overdue invoices - Approved (0), Invoices pending approval (0), Approved invoices pending payment (0), Paid invoices (0), and Invoice Conversions (14). The 'Invoice Conversions' section is active, showing 14 items. Below this, there are filter options for Customers, Submission Date (Last 14 days), Status (All), and Source file name (Type selection). There are also radio buttons for 'Partial match' (selected) and 'Exact match'. A table below shows the list of conversions:

Source File Name	Customer	Submission Method	Status	Reference	Submission Date
Good_PO_Bad_Tax_Sep19_PS02.pdf	man03india@b.c - TEST	Email	Converted	VerifyNoPOTaxInv	Sep 30, 2024
Bad_PO_Good_Tax_01.pdf	indiaman05@b.c - TEST	Email	Conversion Pending		Sep 29, 2024

PDF converted

Feature navigation – Step 4

Verify buyer details in the invoice

Copy This Invoice Cancel Print Download PDF Export cXML

Detail Scheduled Payments History

Standard Invoice

Status: Sent
Invoice: Sent
Routing: Sent
Invoice Number: VerifyNoPOTaxInv
Invoice Date: Thursday, 20 Aug 2020 12:00 pm GMT-07:00
Original Purchase Order: **Sep19_PS02**
Submission Method: Supplier ICS
Origin: Supplier
Source Document: Order

Subtotal:	2,000.00 EUR
Total Tax:	400.00 EUR
Total Gross Amount:	2,400.00 EUR
Total Amount without Tax:	2,000.00 EUR
Total Net Amount:	2,400.00 EUR
Amount Due:	2,400.00 EUR

REMIT TO:
man03india@s.c - TEST
Postal Address:
jUnitDummy
Sunnyvale, CA 94089
United States
Tax ID of Supplier: ES B11111111

BILL TO:
QA supplier
Postal Address:
Richard Parker
Po. Box 4421
Houston, TX 77210
United States
Address ID: 0102

SUPPLIER:
man03india@s.c - TEST
Postal Address:
jUnitDummy
Sunnyvale, CA 94089
United States

BILL FROM:
man03india@s.c - TEST
Postal Address:
jUnitDummy
Sunnyvale, CA 94089
United States

SHIPPING INFORMATION:

Scenario 3

PDF invoice contains *invalid* customer Tax ID and *invalid* PO number

Feature navigation – Step 1

Send pdf invoice via E-mail (Do not mention buyer AN ID in the E-mail)

The screenshot shows the Outlook interface with a draft email. The 'To' field contains 'supplercs-bn-gcpman05-test@m1.lab-us.cloud.ariba.com'. A PDF file named 'bad_PO_Bad_Tax.pdf' (127 KB) is attached. A red box highlights the invoice content, which includes:

- Purchase Order: BAD_PO
- Invoice date: 2024.08.22
- Seller: Dox Supplier Inc, 458 Clark Avenue, Denver, CO 80202, United States
- Customer: Dox Buyer Inc, 123 Maple Street, Springfield, IL 62701, United States
- BuyerTaxId: IT222222
- Table with 10 columns: No., Material Number, Description, Quantity, Unit, Unit Price, Sub Total, TaxRate, Tax amo, Rate.
- Summary: Sub Total: 2000.00, Total Gross Amount: 2000.00, Net Amount: 2000.00
- Bank Details: ES00000000000000000000 SWIFT: PRSNN
- Payment Terms: Bank Transfer 60 days from invoice date

PDF invoice attached

PDF invoice has both wrong PO # and wrong customer Tax ID

Thank you.

Pushpendu Sarkar (p.sarkar@sap.com)

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