

PUBLIC

# **RPA for Ariba Network: Build Your Own Bot Around Ariba Network**

**INT163**

Automate Ariba Application

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## INTRODUCTION

This workshop aims to automate Ariba Application in SAP Intelligent RPA . Using this workshop one can learn how SAP Intelligent RPA can be leveraged to simplify the business process in Ariba Application.

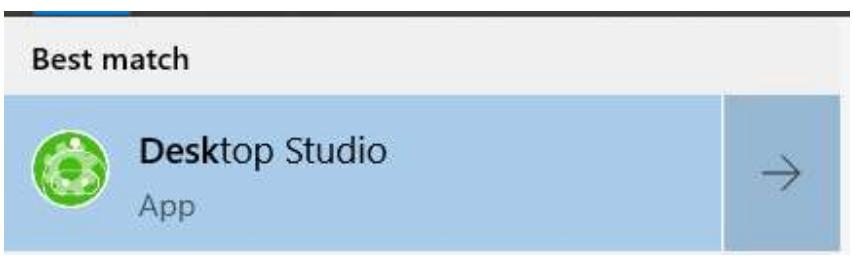
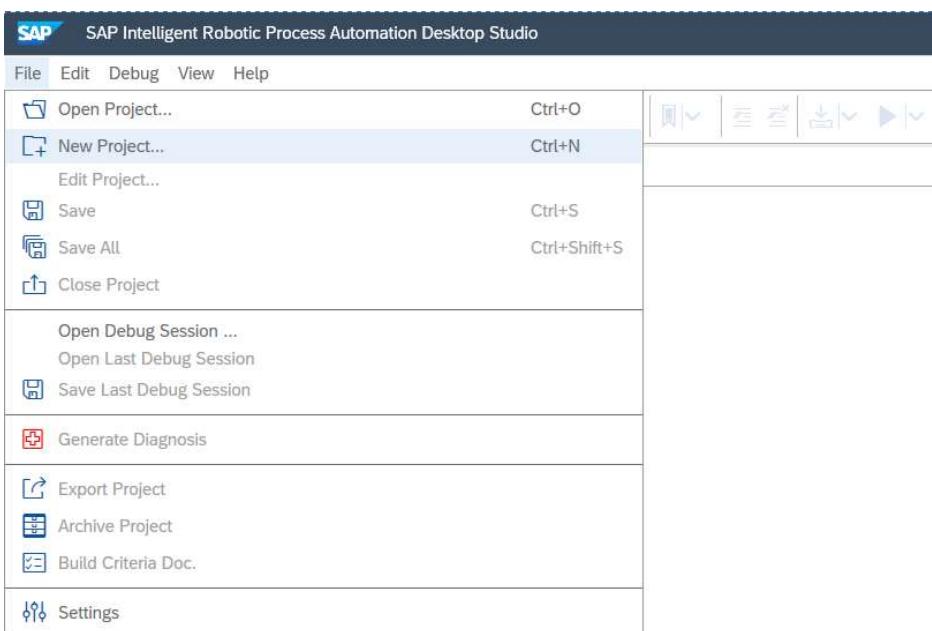
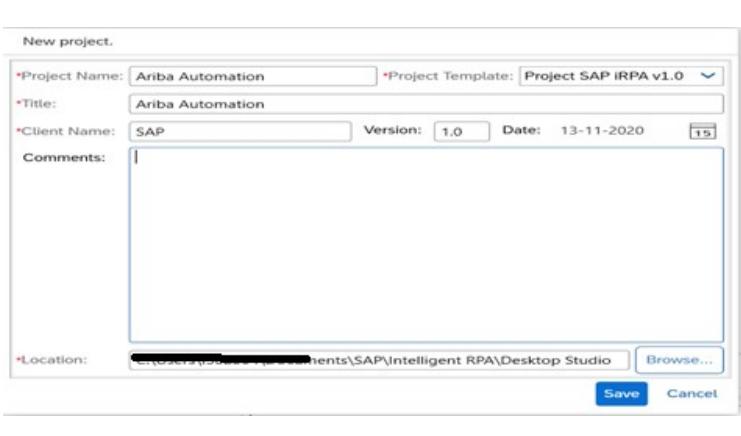
In this workflow, you will first capture Ariba Application and then create a process to automate Purchase Order Flip process that allows a supplier to easily convert a Purchase Order into an invoice.

## EXERCISE 2: CAPTURE ARIBA APPLICATION

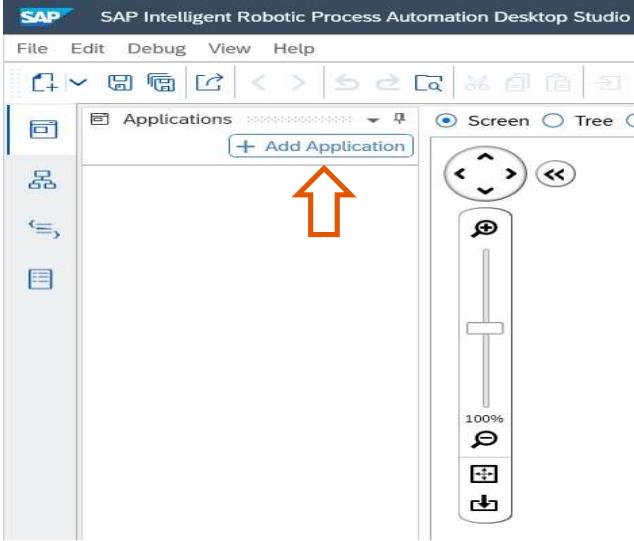
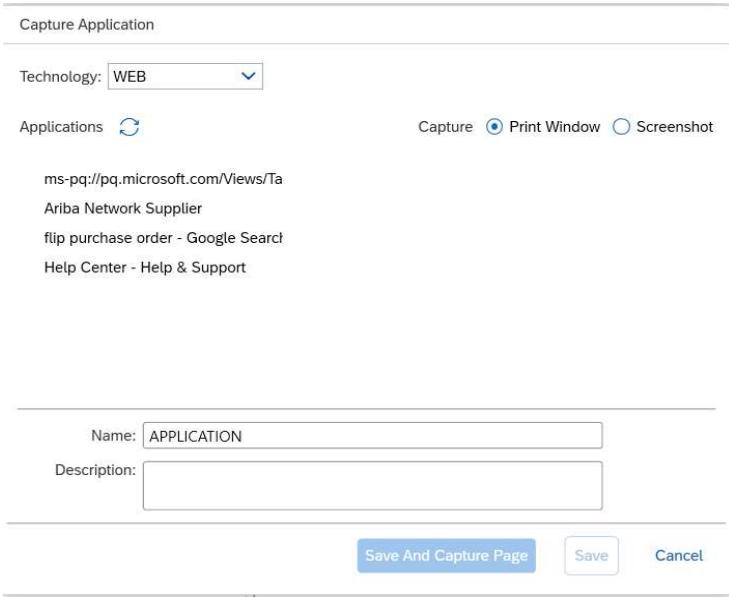
**Estimated time:** 30 minutes

The aim of this exercise is to capture an Ariba Application

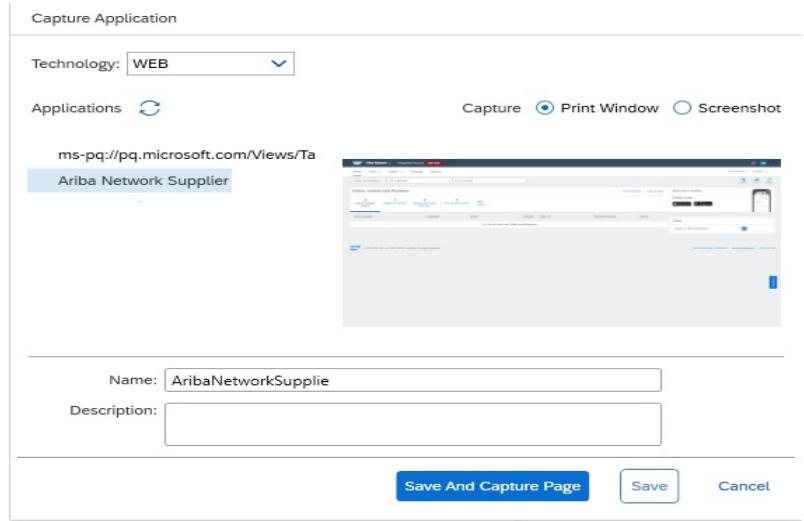
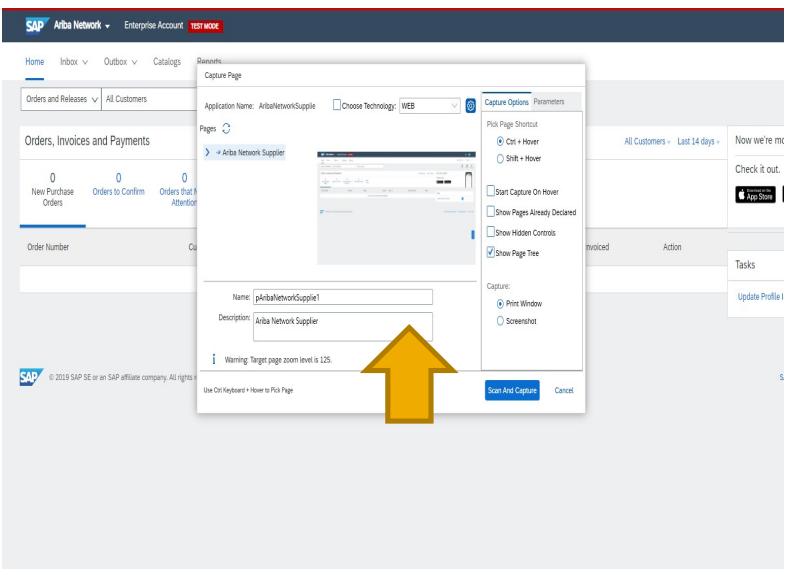
**CAPTURE ARIBA APPLICATION**

Explanation	Screenshot
Search Desktop Studio in Windows Search Box.	 <p>The screenshot shows the Windows Start Menu search interface. At the top, it says "Best match". Below that is a card for "Desktop Studio App", which includes a green circular icon with a robot head, the text "Desktop Studio App", and a large blue arrow pointing to the right.</p>
Create a new project.  Click on File-> select New Project	 <p>The screenshot shows the SAP Intelligent Robotic Process Automation Desktop Studio application window. The title bar reads "SAP Intelligent Robotic Process Automation Desktop Studio". The "File" menu is open, displaying various options like "Open Project...", "New Project...", "Edit Project...", etc. The "New Project..." option is highlighted with a blue selection bar.</p>
New Popup will come. Choose Project Name, Client Name and Title	 <p>The screenshot shows a "New project" dialog box. It has fields for "Project Name" (set to "Ariba Automation"), "Project Template" (set to "Project SAP iRPA v1.0"), "Title" (set to "Ariba Automation"), "Client Name" (set to "SAP"), "Version" (set to "1.0"), and "Date" (set to "13-11-2020"). There is also a "Comments" text area and a "Location" field containing a path. At the bottom are "Save" and "Cancel" buttons.</p>

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<p>Click on Add Application</p>	
<p>One popup will come Select Technology as “WEB”</p>	

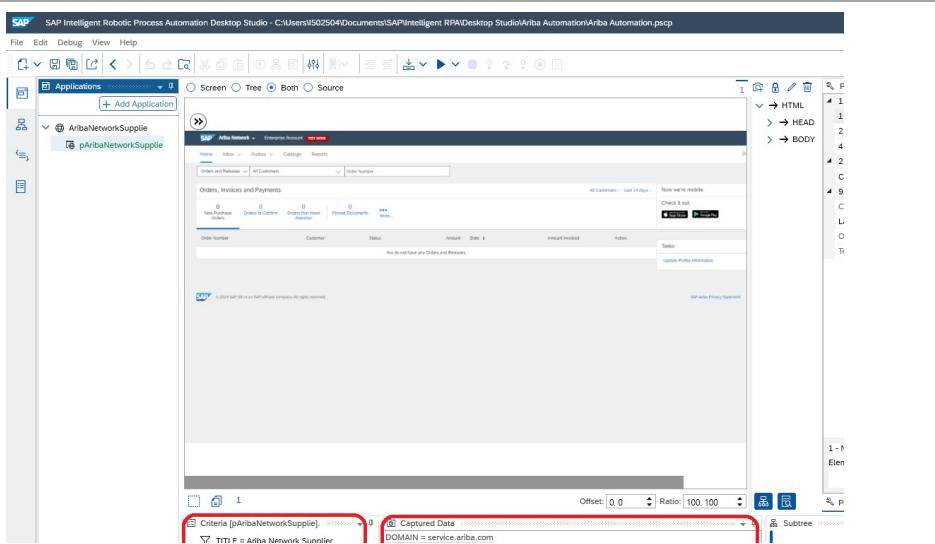
## INT163

<p>Select “Ariba Network Supplier” from list of application and click on “Save and Capture Page”</p>	
<p>Another new popup will come.</p> <p>Ctrl+Hover your mouse over Ariba application in browser.</p> <p>One Red box will come surrounding Ariba application and same page preview you will get in Capture page popup.</p> <p>Click on Scan and Capture.</p>	

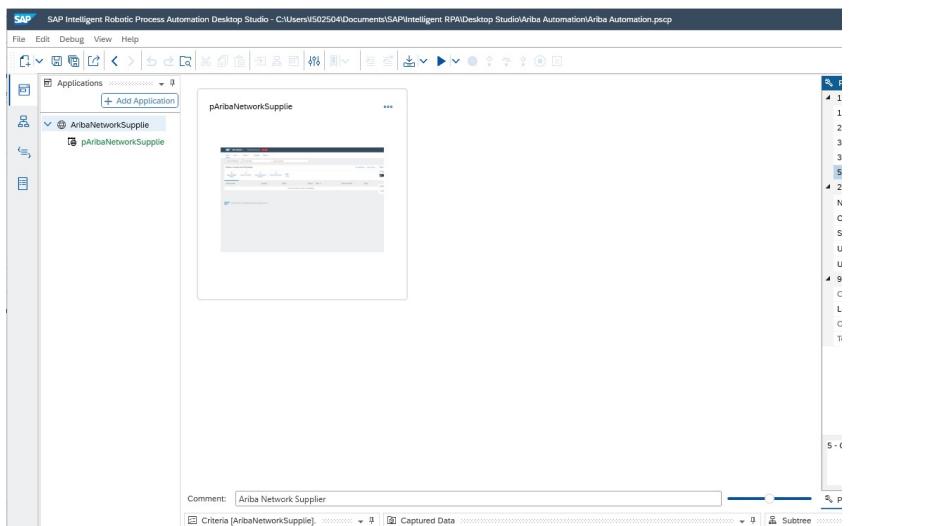
## INT163

Add Criteria for the page.

Double click on Title and Domain from Captured data. Both will be added in criteria panel.

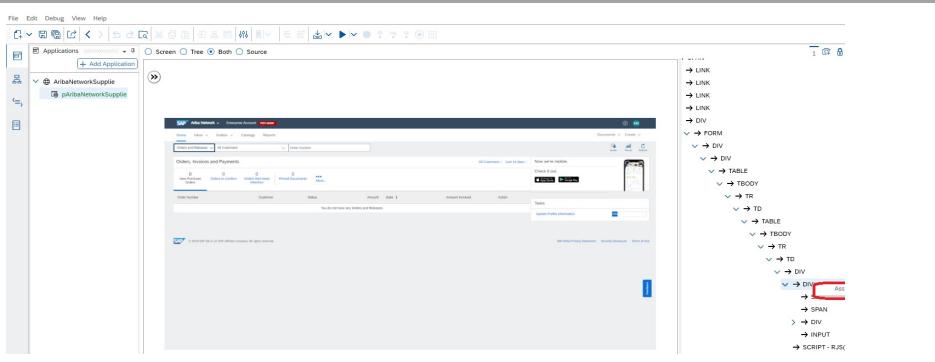


Go back to application and select SAPUI5 as Custom type from right hand side parameters panel.



Declare item for "Orders and Release". "All Customer" and "Order Number" Input Field.

Click on Orders and Release Dropdown. You can see that respective Div has been highlighted in DOM structure. Right click on that Div and

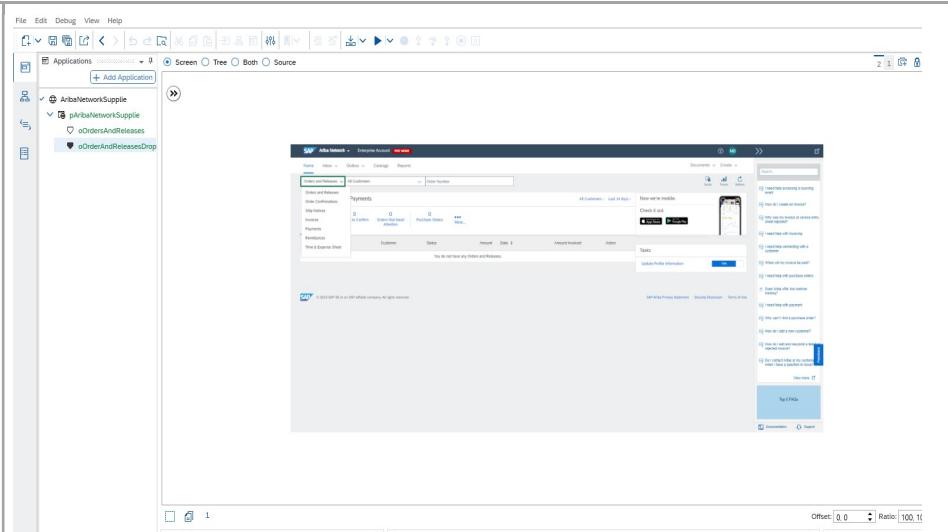


## INT163

select Associated with Item. This will add an item in left hand panel.

From Right hand side Custom Type dropdown select "SAPUI5.pseudobutton"

Follow the same steps for Customers and search Button.

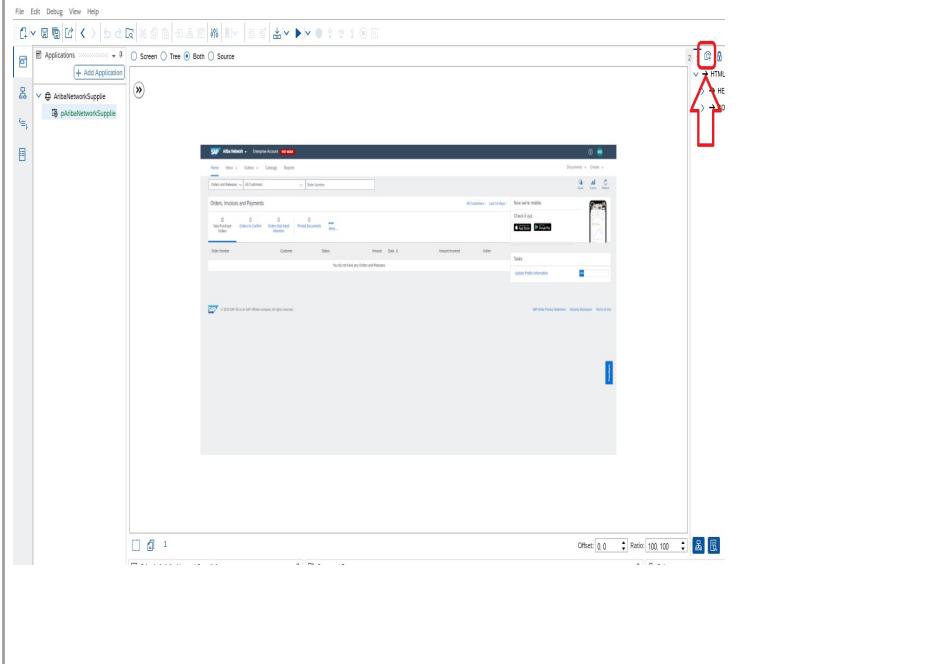


Next need to capture Dropdown menu for each of the field.

To Do that :  
Go back to browser and click on Orders and releases dropdown.

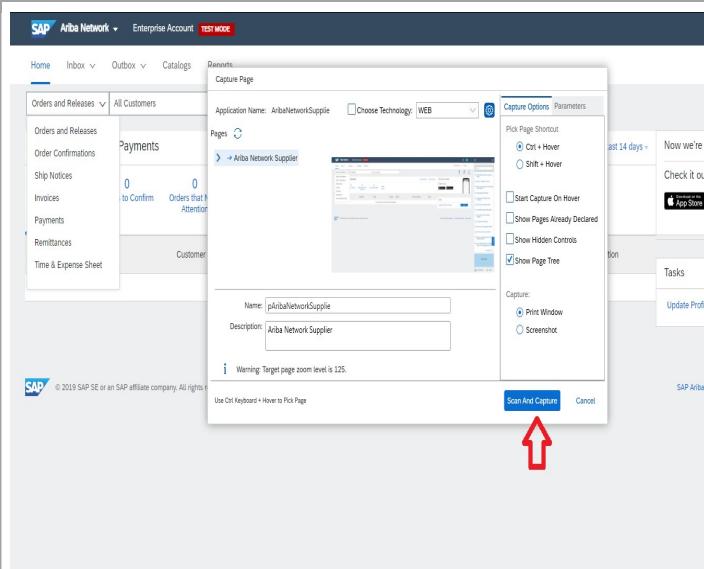
Return to Desktop studio. Click on Right hand side top Camera icon.

It will open a new Capture Page popup.



## INT163

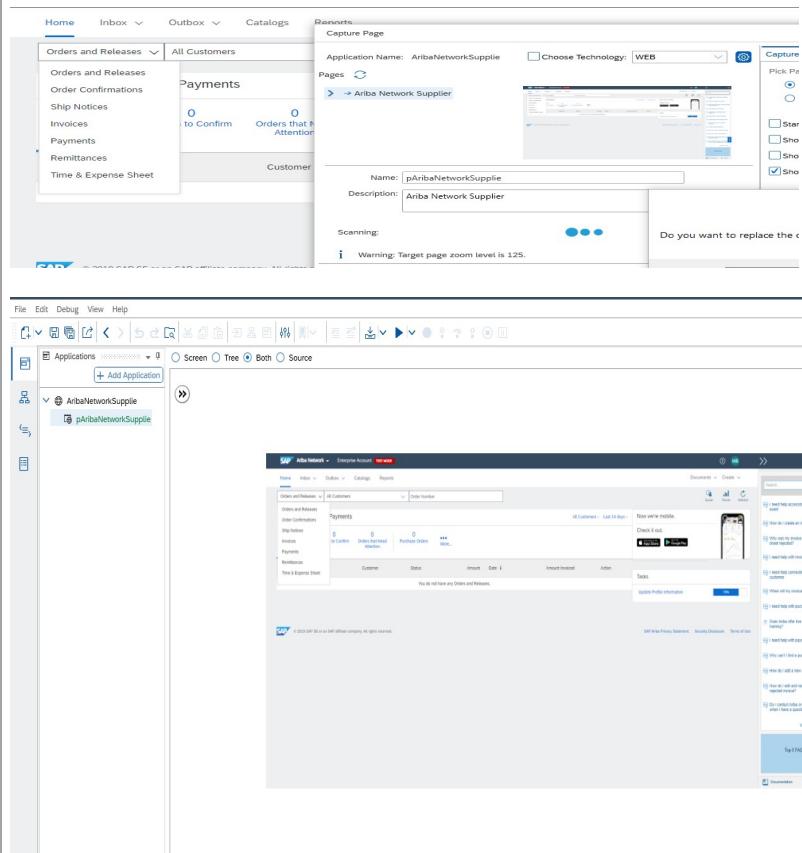
Capture the page again by hovering over the page and clicking Scan and Capture Button.



A new popup will come asking to replace the current Capture once the Capture is over.

Select **No** for that popup.

This will add a new page in the existing capture indexed by number.



Declare the item  
respective to Orders  
and Release from the  
DropDown Menu.

Follow the same for  
“All Customers” field.

Go back to browser.  
Manually Navigate to  
next page.  
Similar Way from  
previous step capture  
page.

Add Title and Domain  
as page criteria.  
Declare below items

“Search Filters” field  
(custom type  
SAPUI5.pseudobutton)

“Exact Number” field  
(custom type  
SAPUI5.pseudobutton)

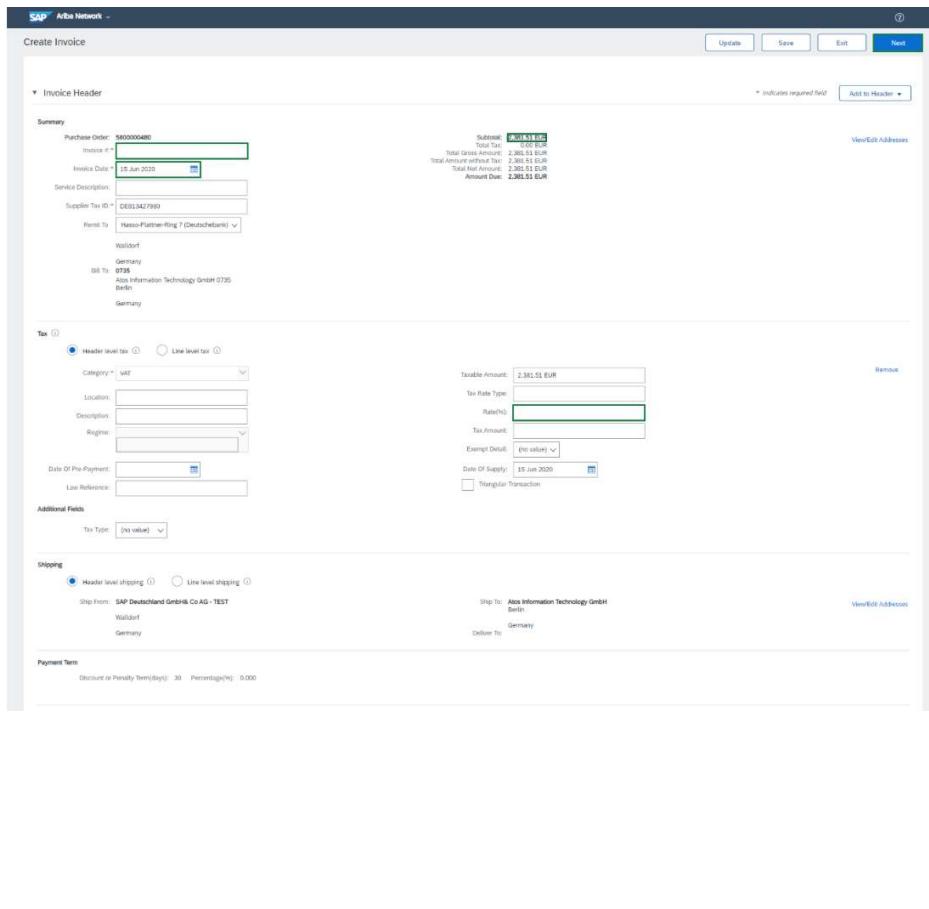
“Order Number” field  
(custom type  
SAPUI5.input)

“Search” Button  
field (custom type  
SAPUI5.pseudobutton)

## INT163

<p><b>First Order Number Search Result (custom type SAPUI5.pseudobutton)</b></p> <p><b>Make item respective to Search Filter as must exist item</b></p> <p>Note: [as we are doing exact match so expected single PO will be returned]</p>	
<p><b>Navigate to Next Page. Capture that page.</b> <b>Add Title and Domain as page criteria.</b></p> <p><b>Declare below items</b></p> <p><b>"Create Invoice" field (custom type SAPUI5.pseudobutton)</b></p> <p>And</p> <p><b>From Drop Down "Supplier Invoice" field (custom type SAPUI5.pseudobutton)</b></p> <p><b>Make item respective to Create Invoice as must exist item</b></p>	

## INT163

<p>Navigate to Next Page. Capture that page.</p> <p>Add Title and Domain as page criteria.</p> <p>Declare below items</p> <p>“Invoice “field (custom type SAPUI5.input)</p> <p>“Invoice Date “(custom type SAPUI5.input)</p> <p>“Rate “(custom type SAPUI5.input)</p> <p>“Next “button (custom type SAPUI5.pseudobutton)</p> <p>Make item respective to Invoice Date as must exist item</p>	 <p>The screenshot shows the SAP Fiori interface for creating an invoice. The top navigation bar includes the SAP logo, the Ariba Network icon, and tabs for Home, Overview, and Create Invoice. The main area is titled "Create Invoice".</p> <p><b>Invoice Header</b></p> <p><b>Summary</b></p> <ul style="list-style-type: none"><li>Purchase Order: 5000000480</li><li>Invoice #*: <input type="text"/></li><li>Invoice Date*: <input type="text"/> 15-Jun-2020</li><li>Service Description: <input type="text"/></li><li>Supplier Tax ID*: DE013427990</li><li>Remit To: Hasso-Plattner-Ring 7 (Deutschebank) <input type="button"/></li><li>Wallof: Walldorf</li><li>Germany</li><li>Bill To: 07359 Alot Information Technology GmbH 0735 Berlin Germany</li></ul> <p><b>Tax</b></p> <p>Header level tax <input checked="" type="radio"/> Line level tax <input type="radio"/></p> <p>Category*: VAT <input type="button"/></p> <p>Location: <input type="text"/></p> <p>Description: <input type="text"/></p> <p>Regime: <input type="text"/></p> <p>Date Of Pre-Payment: <input type="text"/></p> <p>Law Reference: <input type="text"/></p> <p>Additional Fields</p> <p>Tax Type: <input type="text"/> [No value] <input type="button"/></p> <p><b>Taxable Amount</b>: <input type="text"/> 2.361,51 EUR <input type="button"/> Remove</p> <p><b>Tax Rate Type</b>: <input type="text"/> <input type="button"/></p> <p><b>Tax Amount</b>: <input type="text"/> <input type="button"/></p> <p><b>Exempt Detail</b>: <input type="text"/> [No value] <input type="button"/></p> <p><b>Date Of Supply</b>: <input type="text"/> 15-Jun-2020 <input type="button"/></p> <p><input type="checkbox"/> Triangular Transaction</p> <p><b>Shipping</b></p> <p>Header level shipping <input checked="" type="radio"/> Line level shipping <input type="radio"/></p> <p>Ship From: SAP Deutschland GmbH Co AG - TEST Walldorf Germany</p> <p>Ship To: Alot Information Technology GmbH Berlin Germany</p> <p>Deliver To: Germany</p> <p><b>Payment Term</b></p> <p>Discount or Penalty Item(s)/<input type="text"/> 30 Percentage/<input type="text"/> 0,00</p>
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## INT163

Navigate to Next Page. Capture that page.  
Add Title and Domain as page criteria.

Declare below items

“Submit “button (custom type SAPUI5. pseudobutton) and make it must exist item

Make item respective to Submit button as must exist item

The screenshot shows the SAP Ariba Network - Enterprise Account interface. The main area is titled 'Create Invoice'. It contains several sections: 'REMIT TO', 'BILL TO', 'SUPPLIER', 'BILL FROM', 'CUSTOMER', 'WIRE PAYMENT TO BANK', 'SHIPPING INFORMATION', and 'PAYMENT TERMS'. Each section has specific fields for input. To the right of the main form, there is a sidebar with a list of frequently asked questions (FAQs) such as 'How do I change my remittance address and banking information?', 'How do I create an invoice?', and 'What is Ariba Network's approach to webinars?'. Below the sidebar, there are links to 'Documentation' and 'Support'.

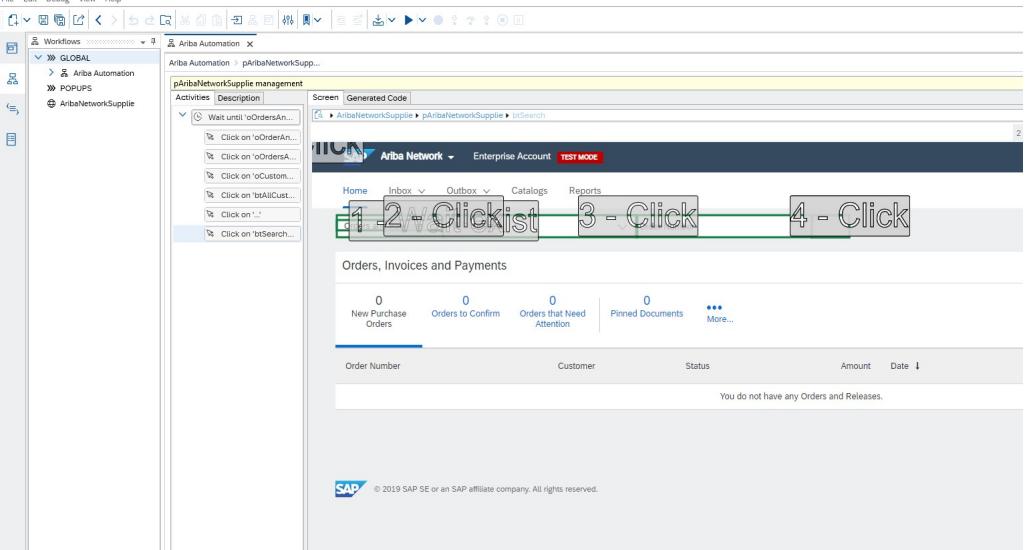
## CREATE WORKFLOW

	<p>Click on workflow perspective.</p> <p>Right click on Global → Select New Workflow.</p> <p>New Popup will come. Provide name to that work flow. Click on Save</p>	
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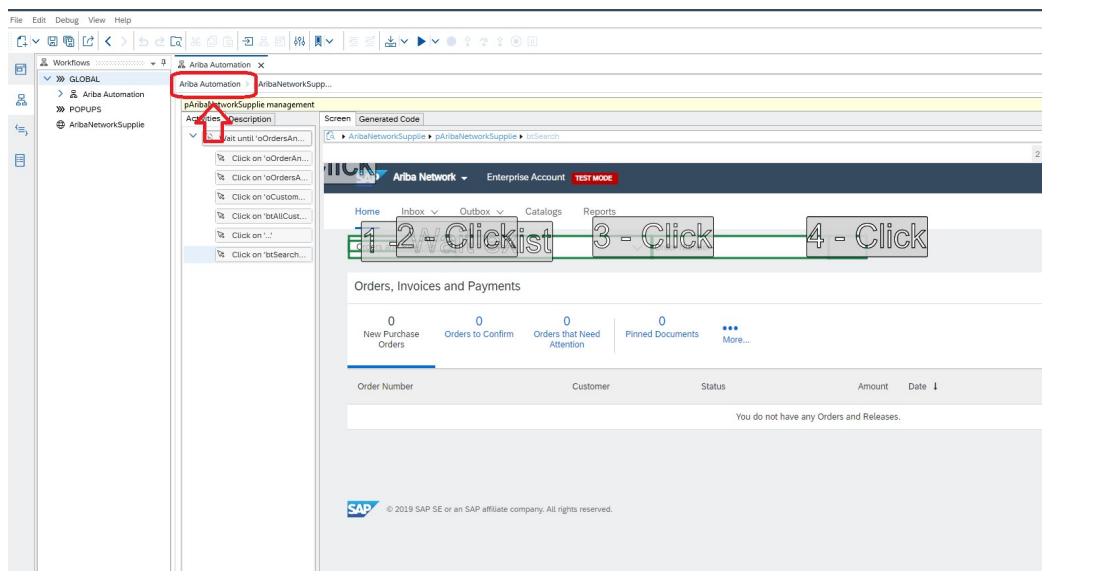
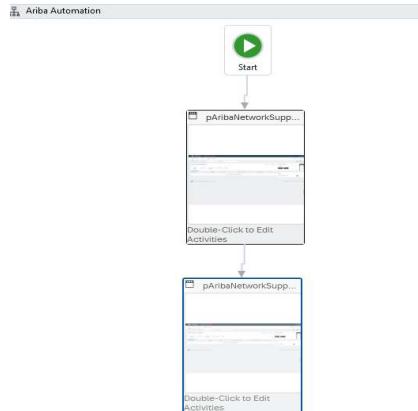
## INT163

<p><b>Drag and Drop the first declared page in main workflow.</b></p> <p><b>Double Click on the page and enter to page view.</b></p> <p><b>Right click on Order and Release item → Go to advance → Item Wait → select wait until item exist.</b></p>	<p>The screenshot shows the Ariba Automation interface. On the left, there's a navigation tree under 'Workflows' with 'GLOBAL', 'Ariba Automation', 'POPUPS', and 'AribaNetworkSupply'. The main area displays a workflow diagram with a start node and a sequence of steps. To the right, the 'Properties' panel is open for the selected 'AribaNetworkSupply' activity. The 'Activities' tab is selected, and the 'Pages' section shows a list with 'AribaNetworkSupply' highlighted and circled in red.</p> <p>This screenshot provides a closer look at the 'AribaNetworkSupply' activity configuration. It shows the 'Activities' tab with the 'Pages' section expanded, displaying the 'AribaNetworkSupply' entry. The 'Properties' panel on the right is also visible, showing various configuration options for the activity.</p>
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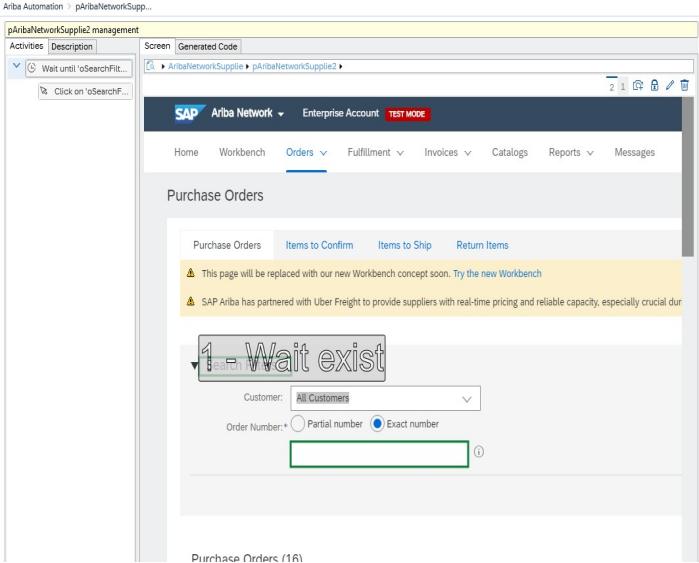
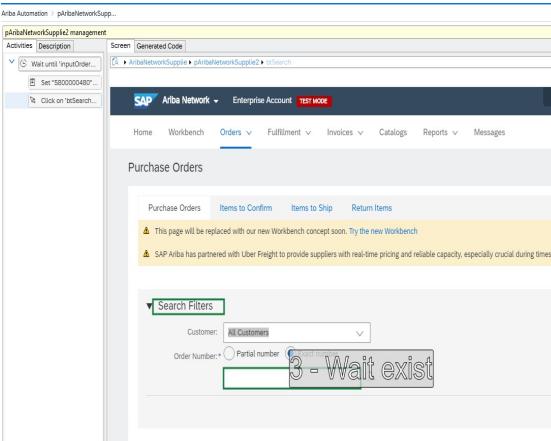
## INT163

<p>Drag and drop click activity from right hand side panel to Order and Release item. This will open the dropdown.</p> <p>Add another click activity on item respective to Order and Release from dropdown.</p>	 <p>The screenshot shows the SAP Ariba Network Workflow Designer interface. On the left, the 'Workflows' tree view shows 'Ariba Automation' and 'AribaNetworkSuppl...'. The main workspace displays the 'Orders, Invoices and Payments' screen with tabs for 'Activities' and 'Generated Code'. A sequence of four numbered click activities (1, 2, 3, 4) is connected to the 'Customer' field in the list. The 'Properties' panel on the right shows the configuration for the 'Activity' type, with 'Item' set to 'Customer'.</p>
<p>Click on Workflow and go back to Main Workflow designer.</p>	

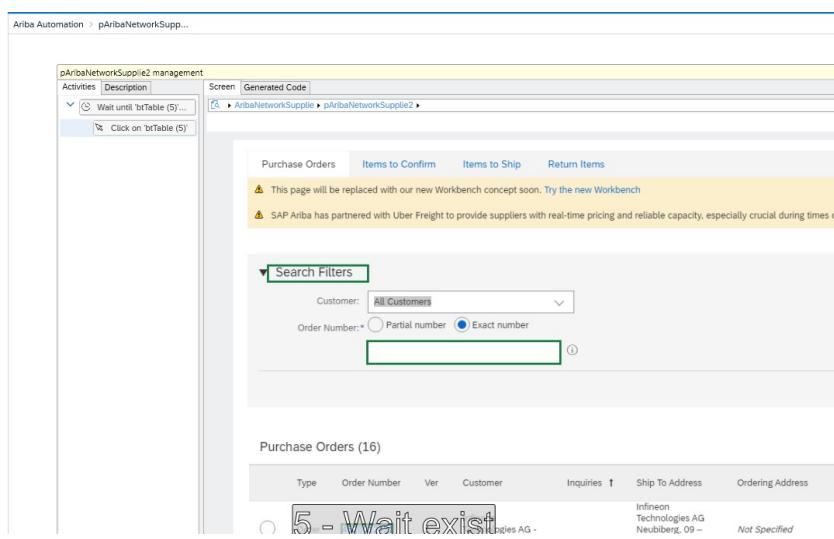
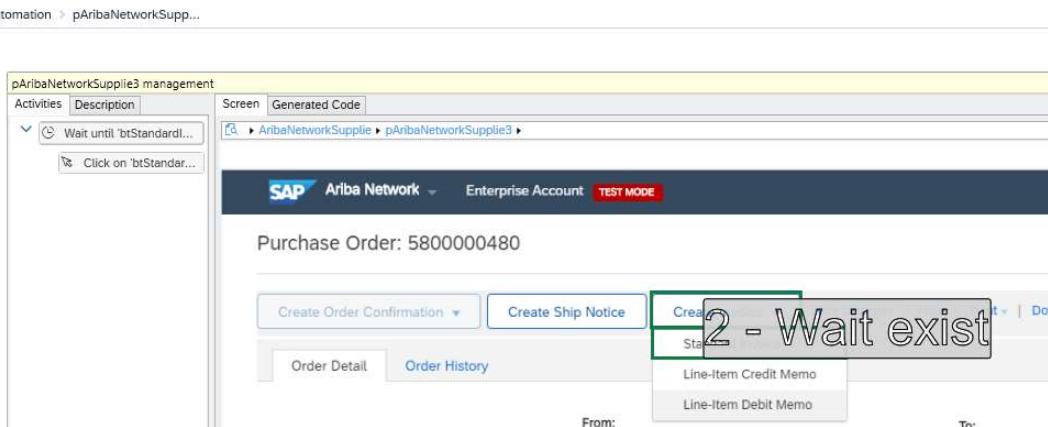
## INT163

	
Drag and drop 2 <sup>nd</sup> page (next navigated page) in workflow. Double click and go to page viewer.	

## INT163

<p>Add a wait exist on search field.</p> <p>Drag and drop a click activity on Search Field Item.</p> <p>Save and Go back to Main workflow.</p>		
<p>Drag and drop the same page again.</p> <p>Navigate to the page view.</p> <p>Add a wait exist on Order Number item.</p> <p>Drag and drop a set activity on Order Number item .</p> <p>Drag and Drop a click activity on Search Button Item.</p>		

## INT163

Save and Go back to main Workflow.															
Drag and drop that same page again.  Add wait exist on the Search result item.  Add a click activity on search result.  Save and go back to Main workflow.	 <p>Ariba Automation &gt; pAribaNetworkSupp...</p> <p>pAribaNetworkSupp2 management</p> <p>Activities Description Screen Generated Code</p> <p>Wait until 'btTable (5)'... Click on 'btTable (5)'</p> <p>Purchase Orders Items to Confirm Items to Ship Return Items</p> <p>This page will be replaced with our new Workbench concept soon. Try the new Workbench</p> <p>SAP Ariba has partnered with Uber Freight to provide suppliers with real-time pricing and reliable capacity, especially crucial during times of supply chain disruption.</p> <p>Search Filters</p> <p>Customer: All Customers Order Number: Partial number Exact number</p> <p>Purchase Orders (16)</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Order Number</th> <th>Ver</th> <th>Customer</th> <th>Inquiries</th> <th>Ship To Address</th> <th>Ordering Address</th> </tr> </thead> <tbody> <tr> <td>5 - Wait exist</td> <td></td> <td></td> <td>Infineon Technologies AG Neubiberg, 09 -</td> <td></td> <td>Not Specified</td> <td></td> </tr> </tbody> </table>	Type	Order Number	Ver	Customer	Inquiries	Ship To Address	Ordering Address	5 - Wait exist			Infineon Technologies AG Neubiberg, 09 -		Not Specified	
Type	Order Number	Ver	Customer	Inquiries	Ship To Address	Ordering Address									
5 - Wait exist			Infineon Technologies AG Neubiberg, 09 -		Not Specified										
Drag and drop 3 <sup>rd</sup> page.  Add a wait until activity and click activity on Create Invoice button.  Save and go back to Main workflow	 <p>Ariba Automation &gt; pAribaNetworkSupp...</p> <p>pAribaNetworkSupp3 management</p> <p>Activities Description Screen Generated Code</p> <p>Wait until 'btStandard...' Click on 'btStandard...</p> <p>SAP Ariba Network Enterprise Account TEST MODE</p> <p>Purchase Order: 5800000480</p> <p>Create Order Confirmation Create Ship Notice</p> <p>Order Detail Order History</p> <p>From:</p> <p>2 - Wait exist</p> <p>Create Order Confirmation Create Ship Notice</p> <p>Order Detail Order History</p> <p>From:</p> <p>2 - Wait exist</p> <p>Create Order Confirmation Create Ship Notice</p> <p>Order Detail Order History</p> <p>From:</p>														

## INT163

<p>Drag and drop 3<sup>rd</sup> page again.</p> <p>Add a wait until activity and click activity on Standard Invoice button.</p> <p>Save and go back to Main workflow</p>	
<p>Drag and drop 4th page.</p> <p>Add a wait until activity on Invoice field.</p> <p>Add set activity on Invoice field and in right hand side parameter panel add value "58000004800"</p> <p>Add another Set Activity on Invoice Date Field and in right hand side parameter panel add value</p>	

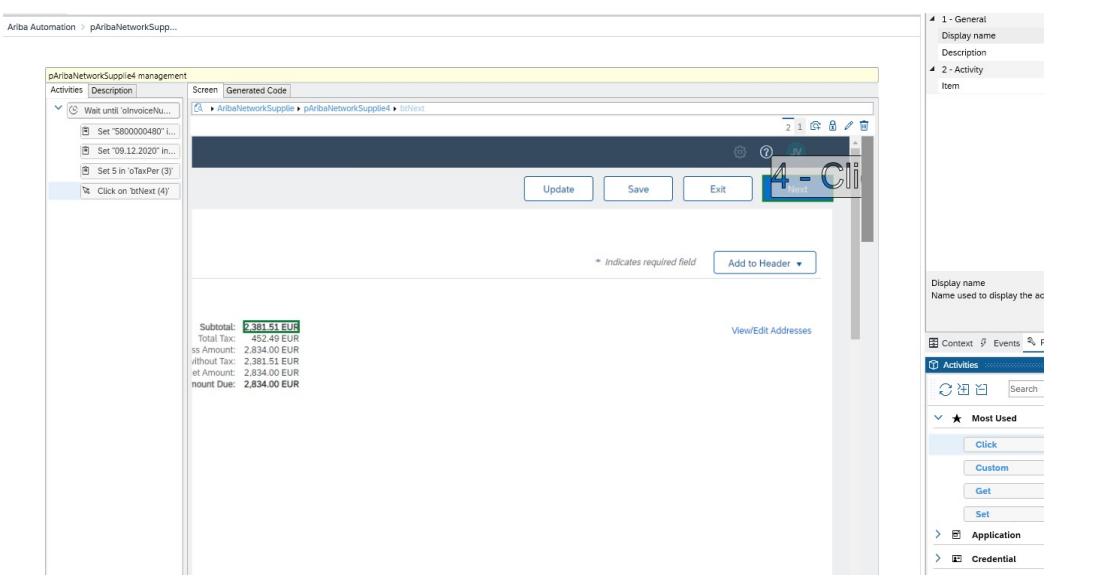
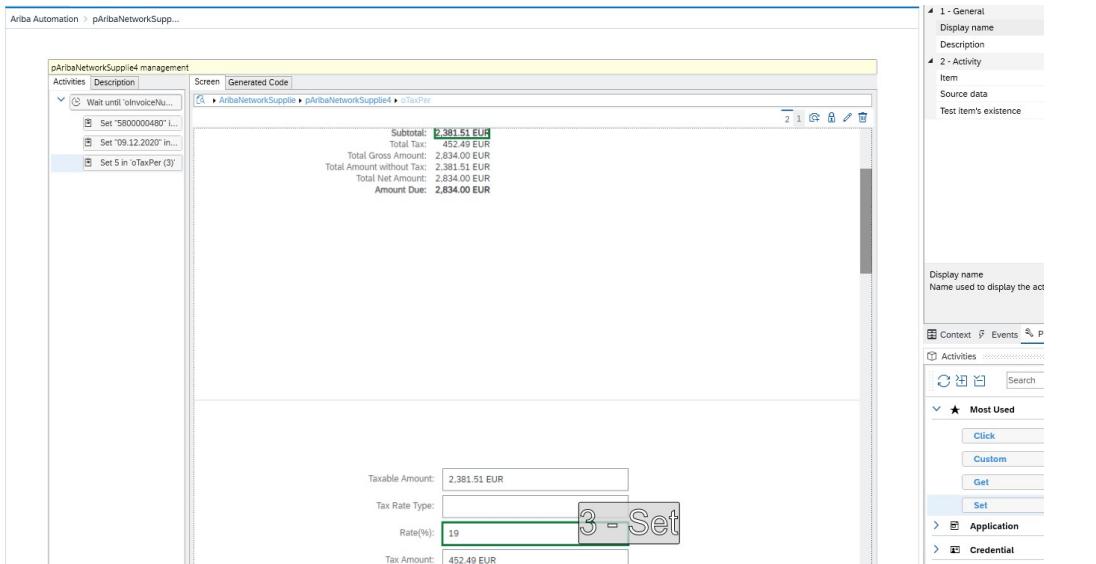
## INT163

"09.12.2020"

Add another Set Activity on Rate Field and in right hand side parameter panel add value "5"

Add a Click Activity on Next Button

Save and go back to Main workflow



## INT163

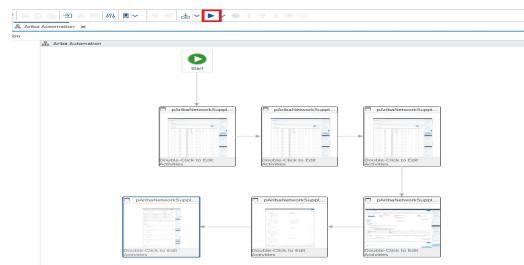
<p>Drag and drop last page in main workflow connecting to previous page</p> <p>Navigate to that page by double clicking on it.</p> <p>Add a wait until and click activity on Submit Button</p> <p>Save and go back to Main workflow</p>	<p>Ariba Automation &gt; pAribaNetworkSupp...</p> <p>pAribaNetworkSupplier management</p> <p>Activities Description Screen Generated Code</p> <p>Wait until 'btSubmit'(1)... Click on 'btSubmit ...'</p> <p>1 - Wait exist</p> <p>tra-EU Trade. The document's originating country is Germany. The document's destination country is France. Archive old invoices once you subscribe to the archiving service.</p> <p>Subtotal: 15,816.65 EUR Total Tax: 3,005.16 EUR Total Gross Amount: 18,821.81 EUR Amount without Tax: 15,816.65 EUR Total Net Amount: 18,821.81 EUR Amount Due: 18,821.81 EUR</p> <p>SUPPLIER: SAP Deutschland GmbH&amp; Co AG - TEST Postal Address: Hasso-Plattner-Ring 7 69190 Walldorf Germany</p> <p>Send a PO-based invoice (4.35) Send an invoice from a light account (4.13) How do I change my remittance address and banking information? How do I create an invoice? How do I create a purchase order-based invoice? Can I add my own tax rate when creating invoices? How do I find my submitted invoice? Have a lot of invoices to send? Use CSV invoicing! E-archiving best practices for suppliers in countries with VAT What is Ariba Network's approach to withholding tax?</p>	<p>1 - General Display name Description</p> <p>2 - Activity Item</p> <p>Display name Name used to display the act</p> <p>Context Events Properties Activities</p> <p>Most Used</p> <ul style="list-style-type: none"> <li>Click</li> <li>Custom</li> <li>Get</li> <li>Set</li> </ul> <p>Application</p> <p>Credential</p>
<p>Click on Build button to generate code, respective to workflow.</p>	<p>Ariba Automation</p> <p>Start</p> <p>pAribaNetworkSupplier</p> <p>pAribaNetworkSupplier</p> <p>pAribaNetworkSupplier</p> <p>pAribaNetworkSupplier</p> <p>pAribaNetworkSupplier</p> <p>pAribaNetworkSupplier</p> <p>Build</p>	

## INT163

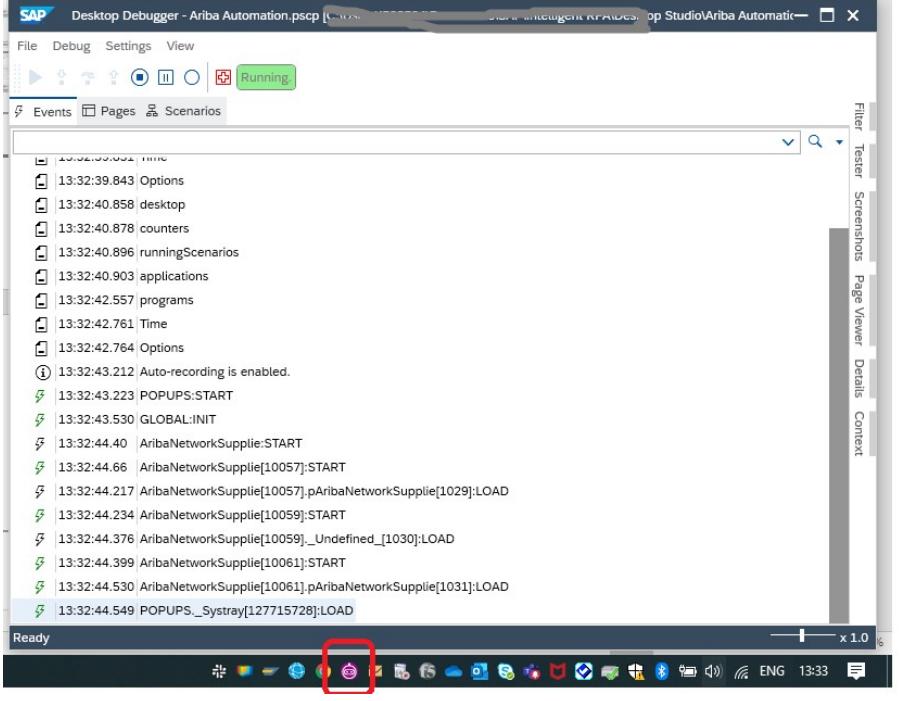
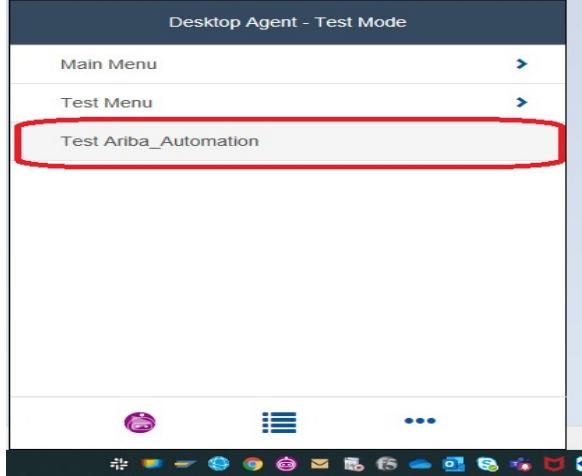
```
174 // Step: pAribaNetworkSupplie2
175 // -----
176 GLOBAL.step(( pAribaNetworkSupplie2: function(ev, sc, st) {
177   var rootData;
178   ctx.workflow('Ariba_Start', 'ecc749bf-5039-49fc-babe-54b5ac270e1f');
179   // Wait until the Page loads
180   AribaNetworkSupplie.pAribaNetworkSupplie2.wait(function(ev) {
181     // -----
182     AribaNetworkSupplie.pAribaNetworkSupplie2.oSearchFilters.wait(function(ev) {
183       //AribaNetworkSupplie.pAribaNetworkSupplie2.oSearchFilters.click();
184       //var error = true;
185       //while(error=true){
186       // try{
187       AribaNetworkSupplie.pAribaNetworkSupplie2.oExact.wait(function(ev){
188         AribaNetworkSupplie.pAribaNetworkSupplie2.oExact.click();
189         // error = false;
190         sc.endStep(); // pAribaNetworkSupplie2_1
191         return;
192       //} catch(ev){
193       //   error = true;
194       //}
195       //}
196       //},0,10000);
197     }, 0, 10000);
198   },0,10000);
199   //-----
200 });
201 // -----
202 // Step: pAribaNetworkSupplie2_1
203 // -----
204 GLOBAL.step(( pAribaNetworkSupplie2_1: function(ev, sc, st) {
205   var rootData = sc.data;
206   ctx.workflow('Ariba_Start', '4772c54a-683e-4e6d-a149-cf54a082930f');
207   // Wait until the Page loads
208   AribaNetworkSupplie.pAribaNetworkSupplie2.waitReady(function(ev) {
209     //AribaNetworkSupplie.pAribaNetworkSupplie2.inputOrderNumber.wait(function(ev){
210     //  // var error = true;
211     //  while(error=true){
212     //    try{
213     //      AribaNetworkSupplie.pAribaNetworkSupplie2.inputOrderNumber.set(rootData.x1Tab[1][0]);
214     //      // error = false;
215     //
```

## RUN YOUR BOT

- Click on Debug Button



## INT163

<p>It will initiate desktop agent and events will be enlisted in Debugger Widow.</p> <p>Click on Desktop agent on Systray.</p>	
<p>One popup will be open.</p> <p>Click on the process that you have create. It will start execution.</p> <p>[Note: Make sure Ariba application is open in Chrome/ IE and Logged in. As we have not added those two activities in current project scope]</p>	

## SUMMARY

**You have completed the exercise!**

**You are now able to:**

- ... Capture Ariba Application
- ... Create a Workflow to Automate PO Flip Process
- ... Build Code and generate code from workflow
- ... Test execution.

## REFERENCES

**Help portal for SAP Intelligent Robotic Process Automation:** <https://help.sap.com/viewer/p/IRPA>

**SAP Intelligent Robotic Process Automation on SAP Community:**

<https://community.sap.com/topics/intelligent-rpa>

[www.sap.com/contactsap](http://www.sap.com/contactsap)

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