

## Create I flow using ODATA and send / Receive Message

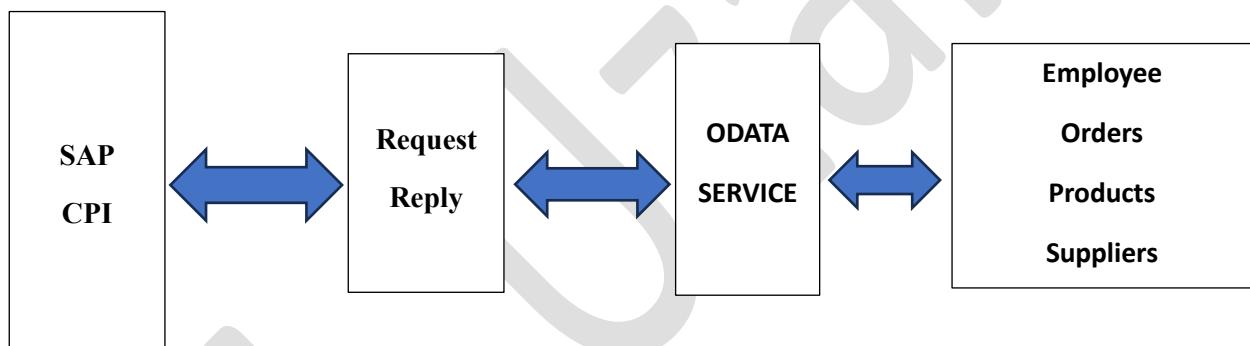
### ODATA:

ODATA, short for Open Data Protocol, is an open protocol to allow the creation and consumption of queriable and interoperable Restful APIs in a simple and standard way via. simple protocols like HTTP/HTTPS. More details about ODATA can be found on:

<https://www.odata.org/> .

\*REST - Representational state transfer (REST) is a software architectural style that uses a subset of HTTP. It is commonly used to create interactive applications that use Web services. A Web service that follows these guidelines is called RESTful Website which we'll be using in our example: <https://services.odata.org/V2/Northwind/Northwind.svc>

Get the Orders: <https://services.odata.org/V2/Northwind/Northwind.svc/Orders>



## Creating I-Flow:

The screenshot shows the SAP Integration Suite interface. The top navigation bar displays "SAP Integration Suite" and the current path "Integrations and APIs / ODATA\_IFLOWS / ODATA\_IFLOWS". The main content area is titled "Working with the ODATA Service in I Flows" and shows the following details:

- Vendor: END
- Mode: Editable
- Version: SOAP

The "Overview" tab is selected, showing the following package information:

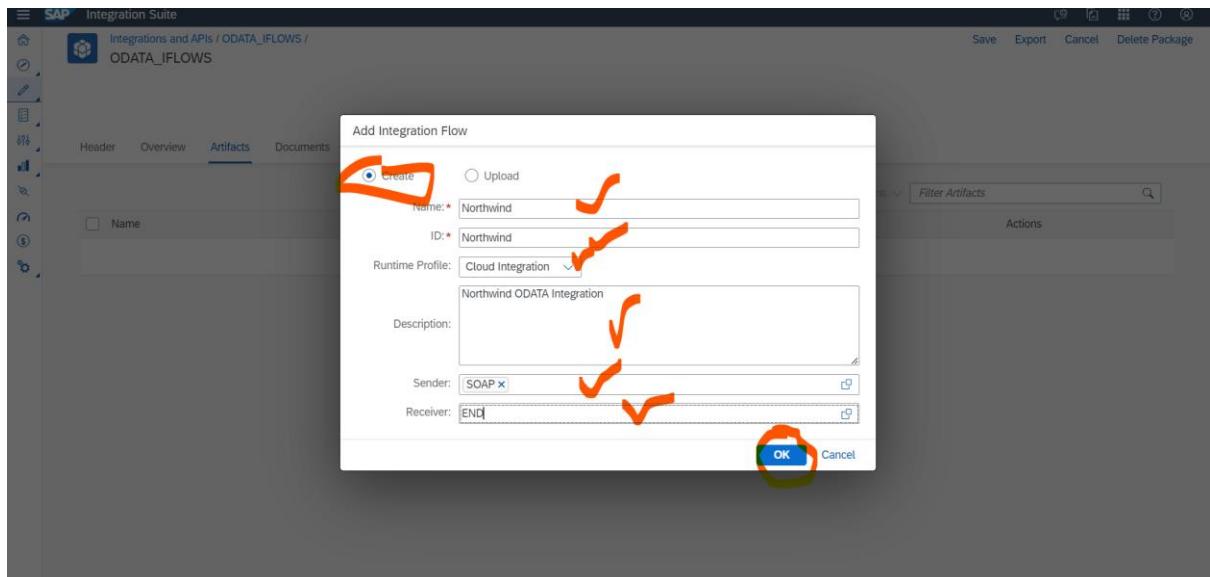
- Description: ODATAIFLOWS
- Supported Platform: Cloud Integration
- Category: Integration
- Created: 07 Nov 2023
- Created by: muhammad.uzair1@ibm.com
- Last Modified: 07 Nov 2023
- Last Modified by: muhammad.uzair1@ibm.com

The screenshot shows the SAP Integration Suite interface on the "Artifacts" page for the same package. The "Add" button in the top right corner has a red circle around it, indicating where the user should click to open the context menu. The menu is open, displaying the following options:

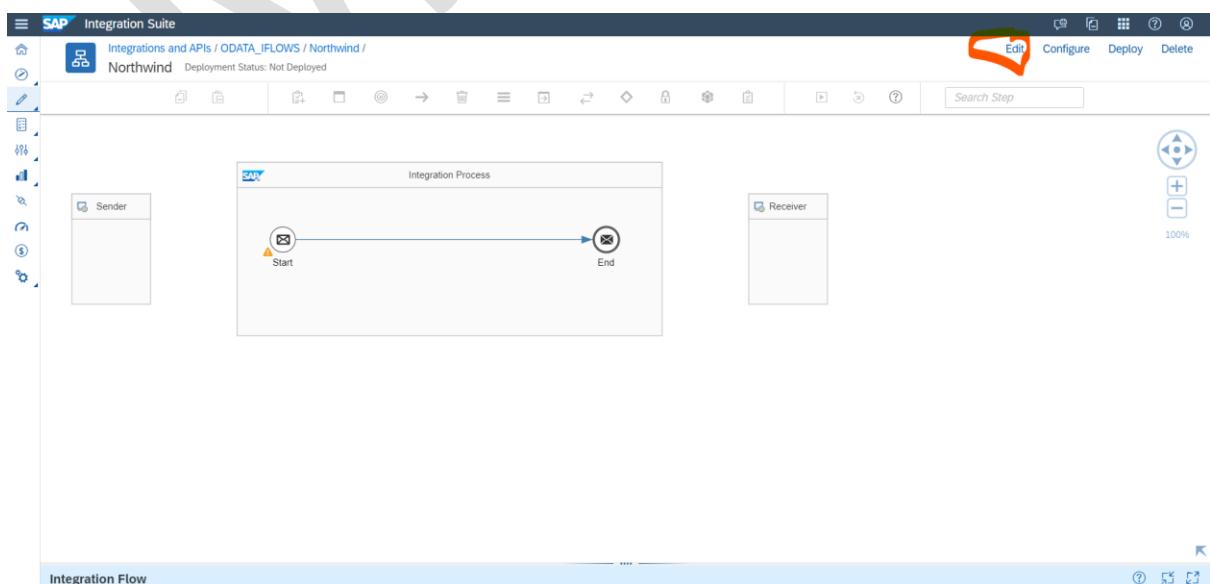
- Add
- Migrate
- Delete
- Actions
- Filter Artifacts

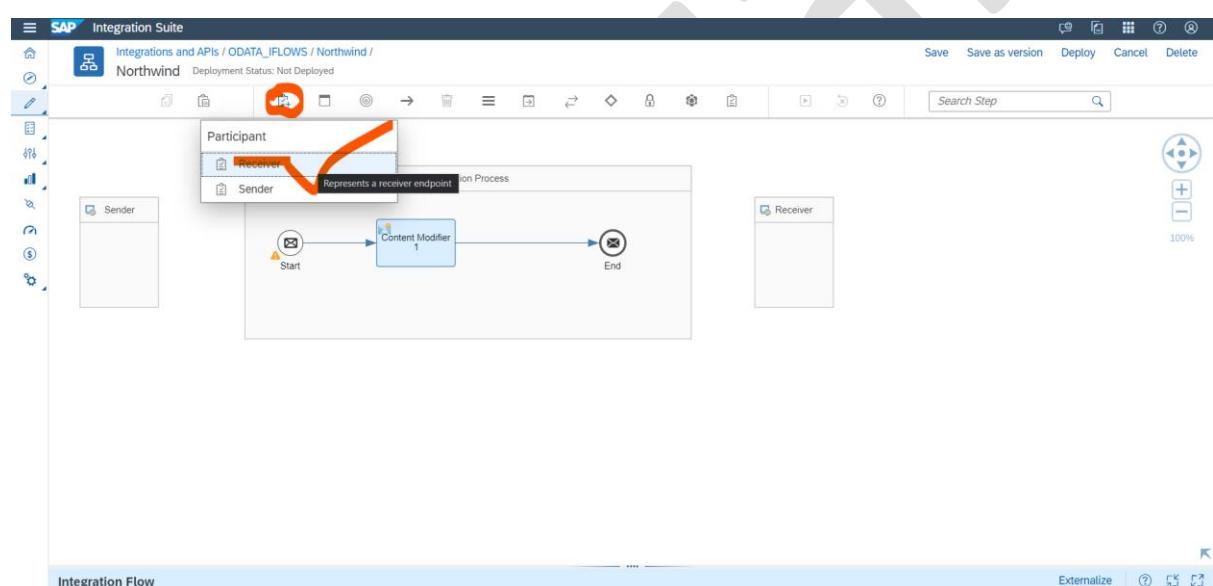
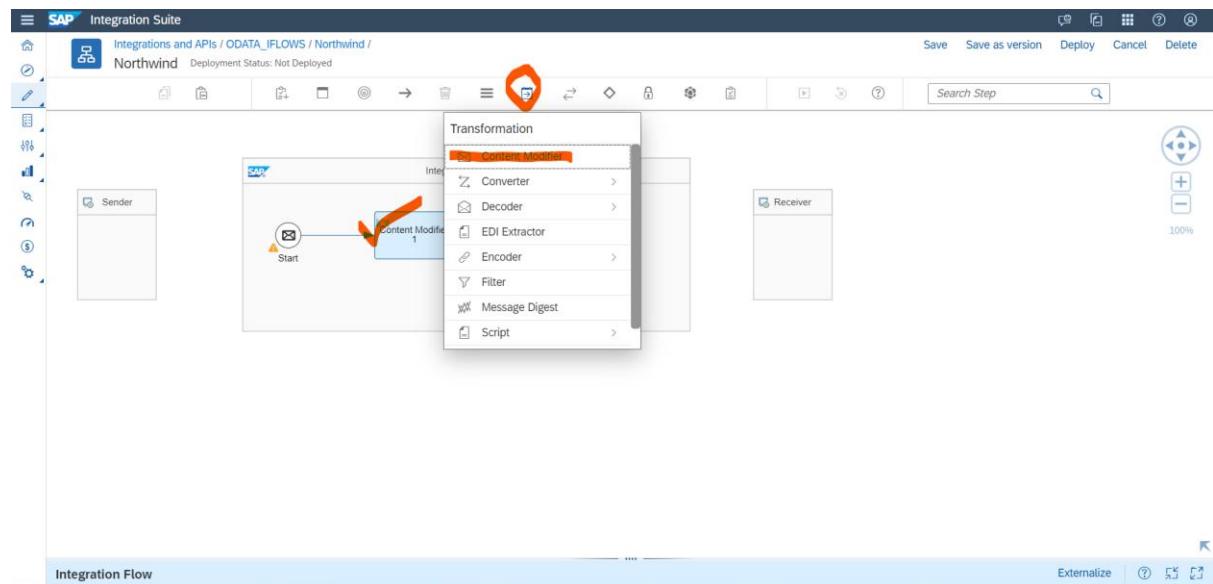
The menu also lists various artifact types:

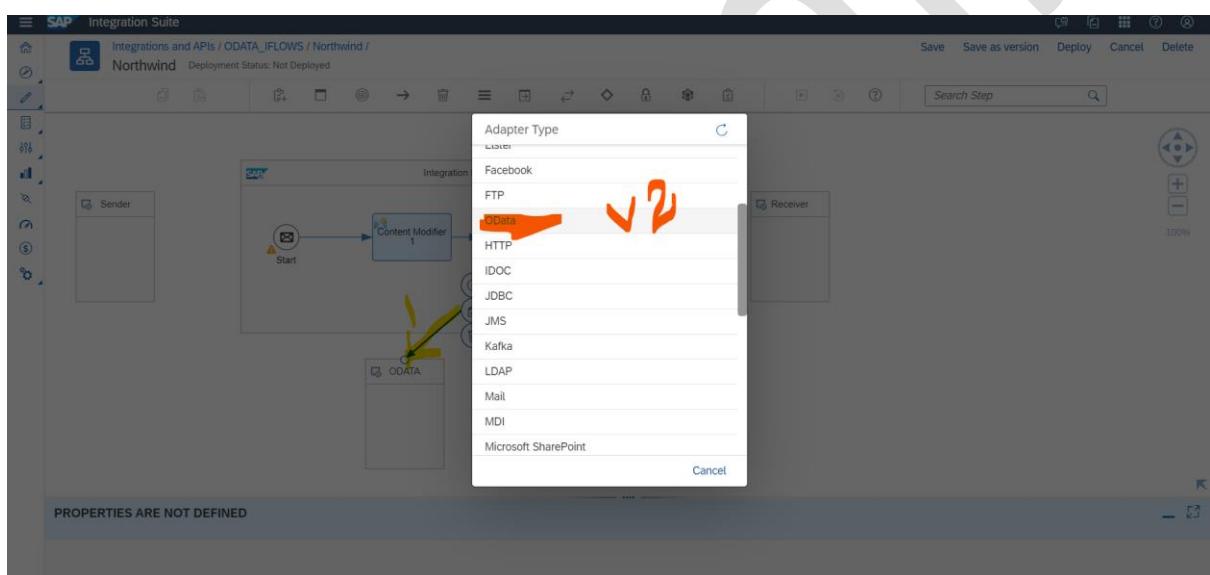
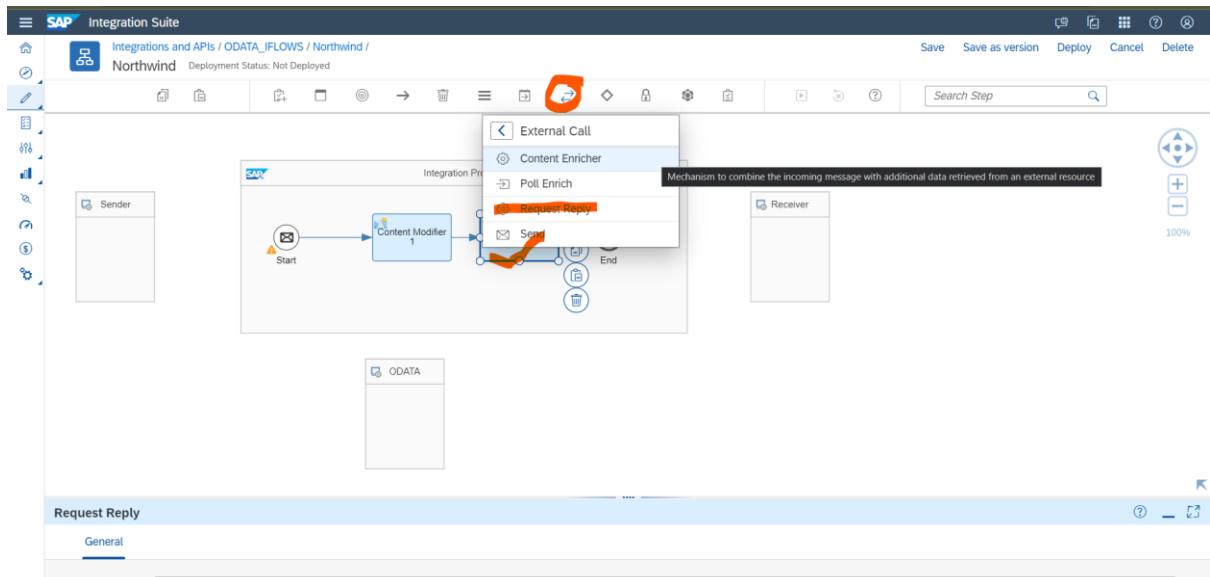
- Integration Flow (highlighted with a red circle)
- SOAP API
- Value Mapping
- OData API
- Script Collection
- API
- REST API
- Message Mapping
- Function Libraries
- Integration Adapter
- Data Type
- Message Type

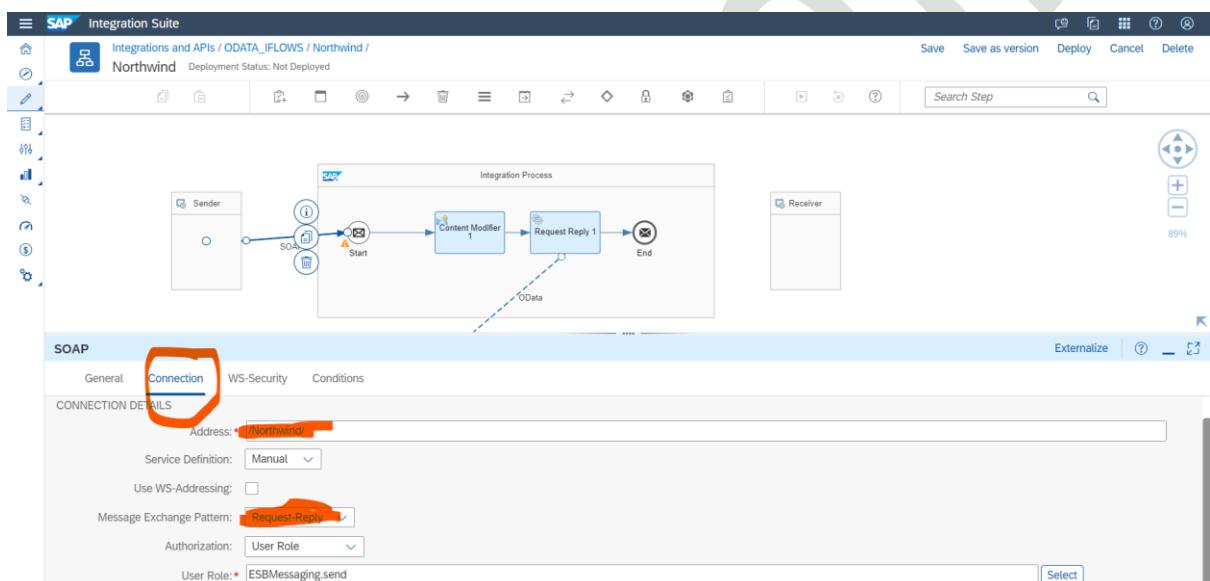
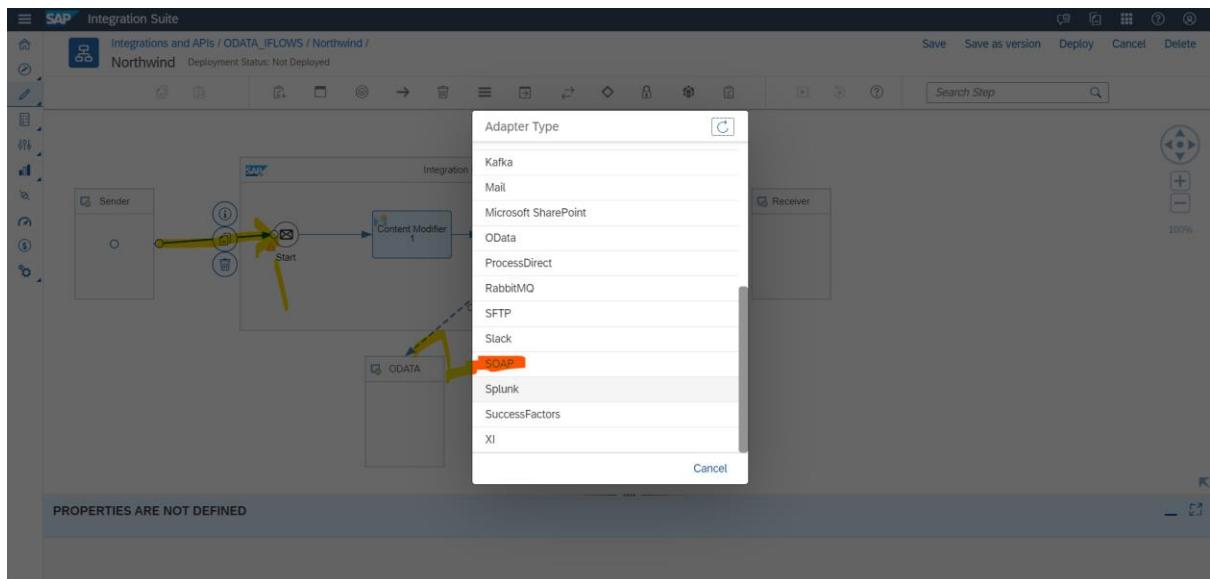


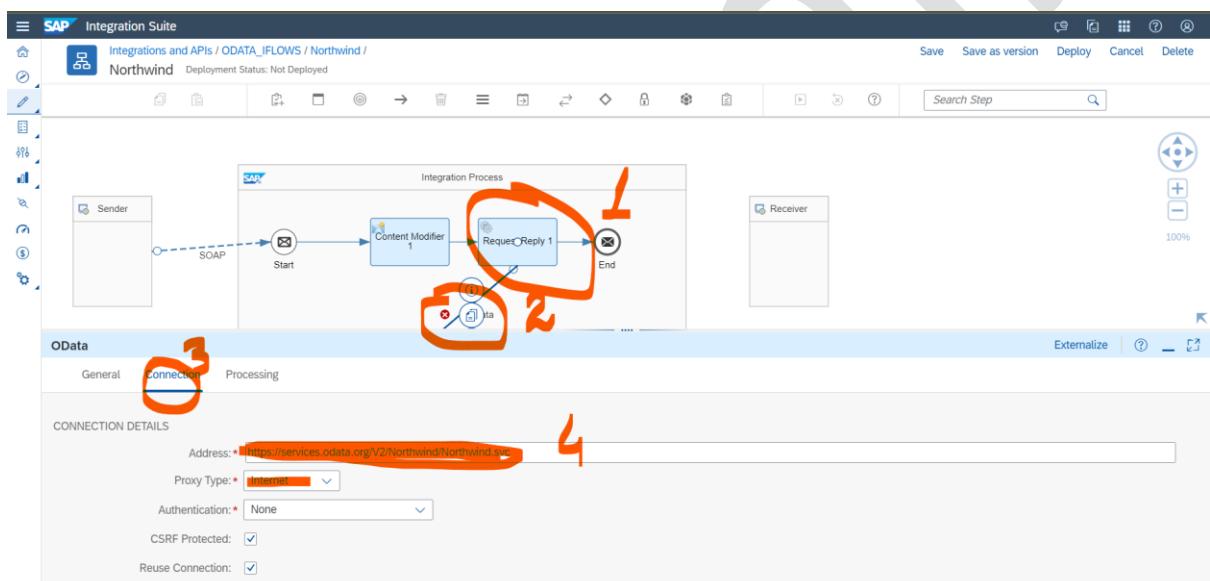
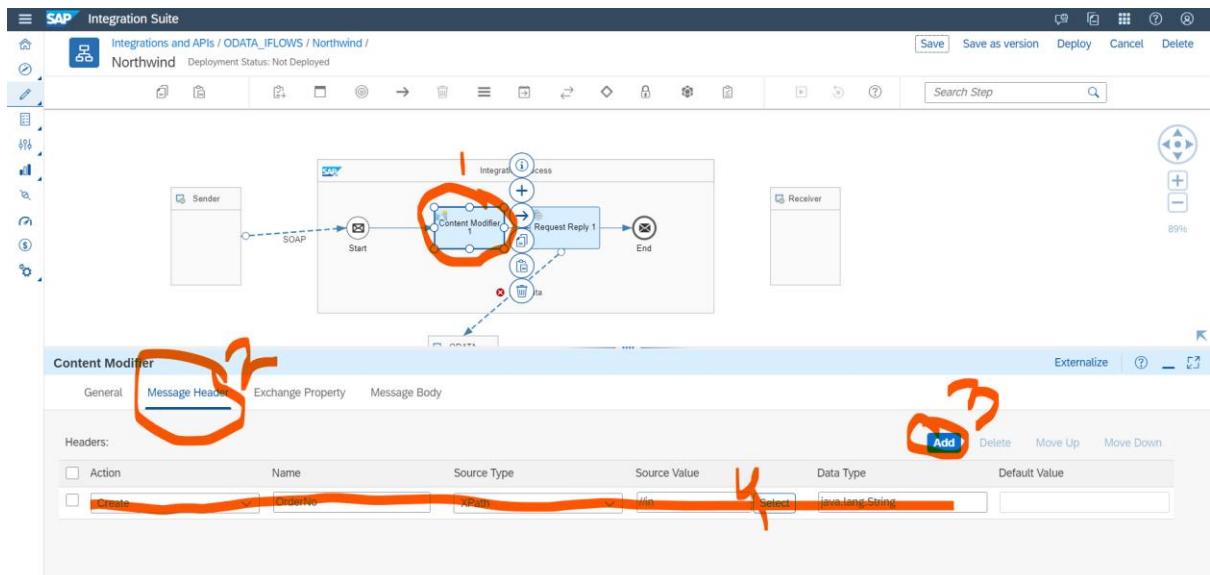
Now Just Open the I flow That is created.

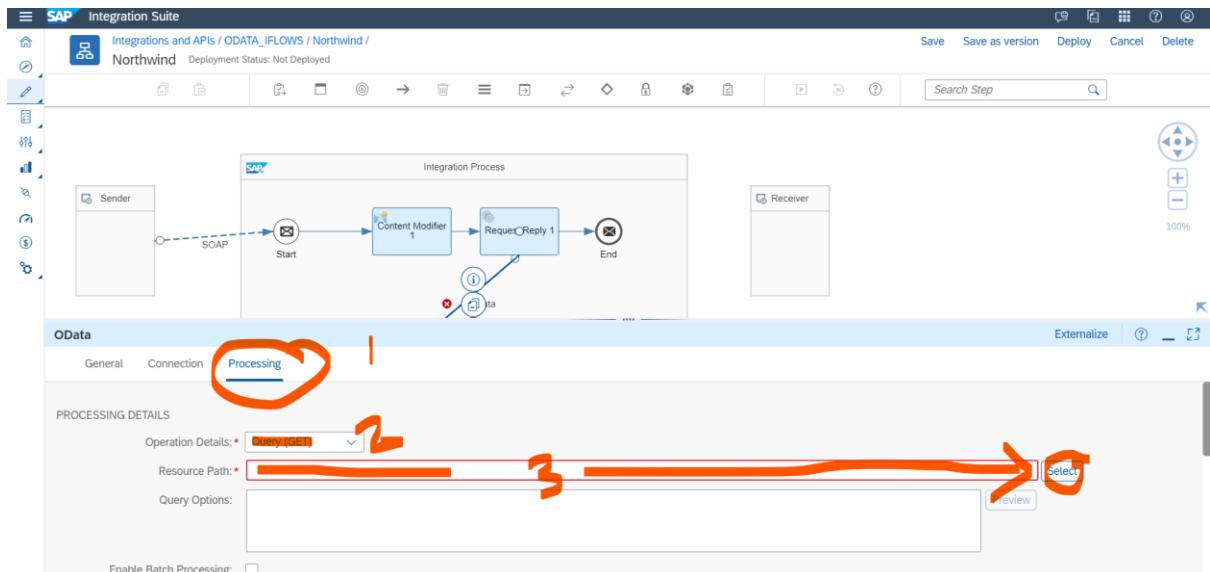












Model Operation

1. Connect to System

Step 1

Step 2

2. Select Entity & Define Operation

Connection Source: **Remote**

Address: \* **https://services.odata.org/V2/Northwind/Northwind.svc/\$...**

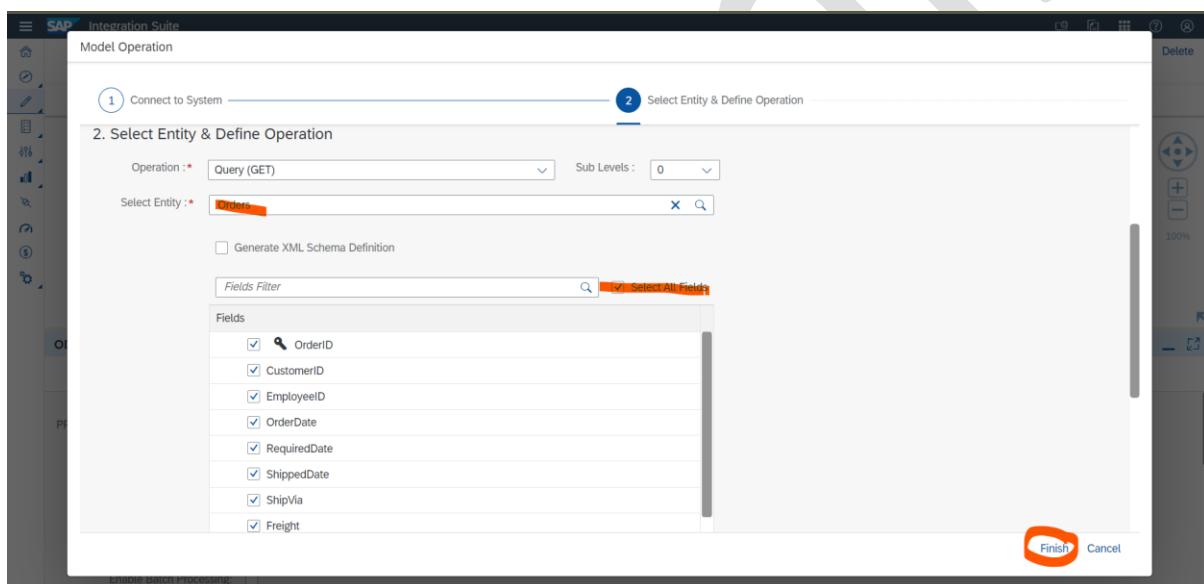
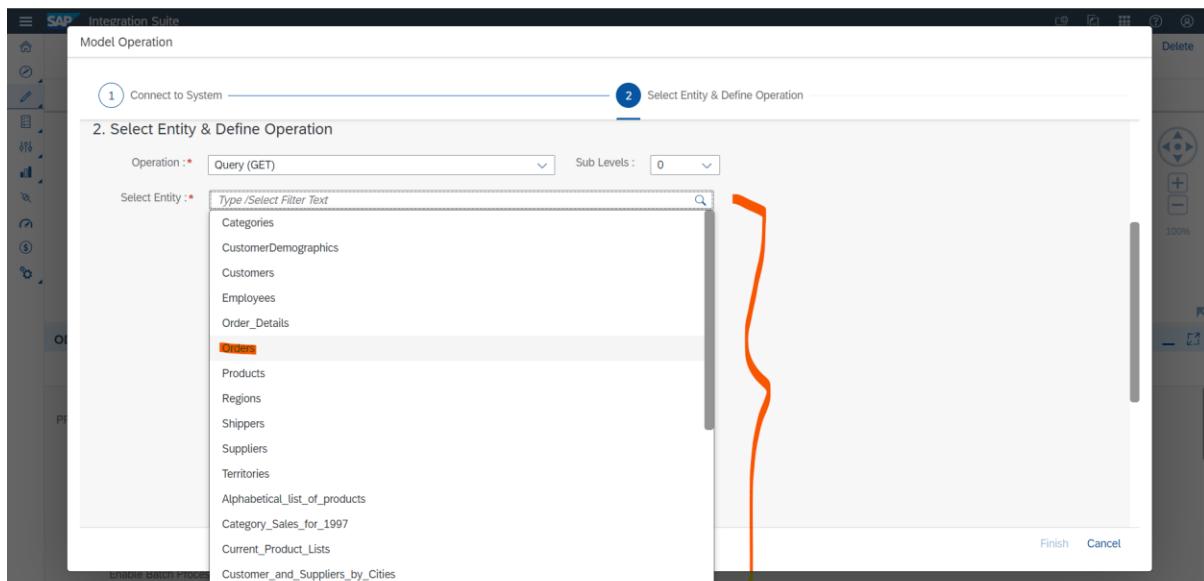
Proxy Type: \* **Internet**

Authentication: \* **None**

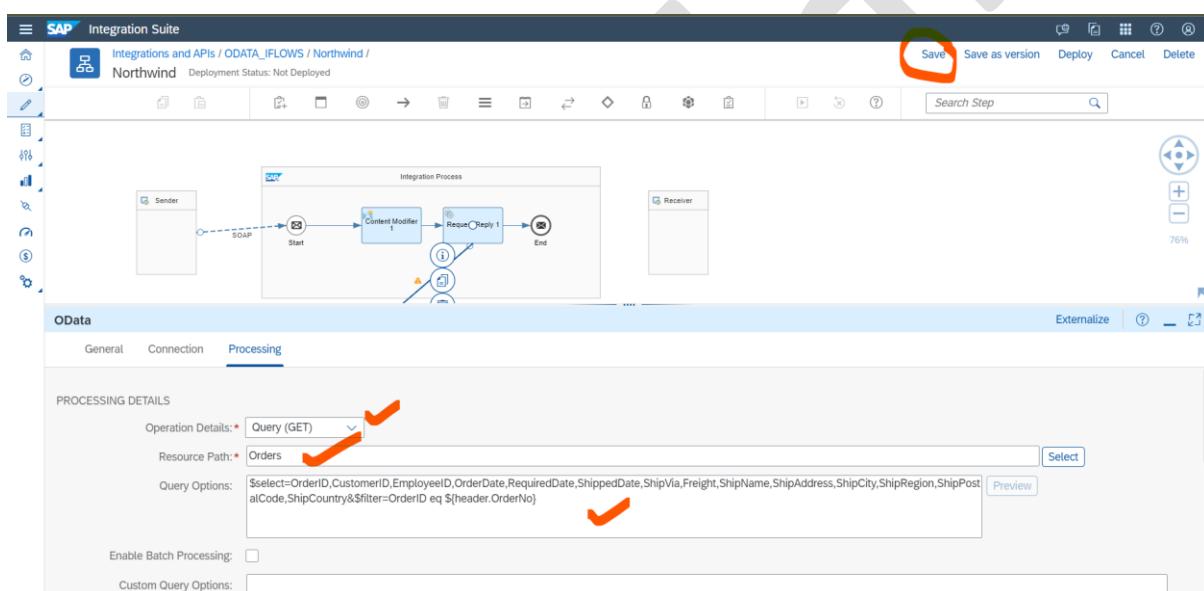
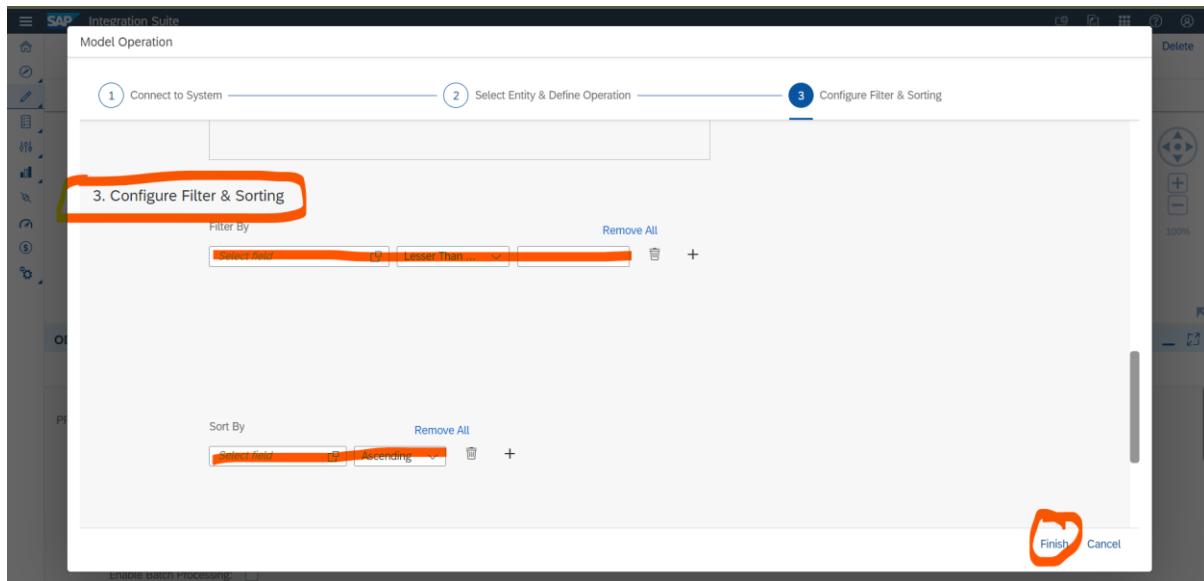
Step 1

Step 2

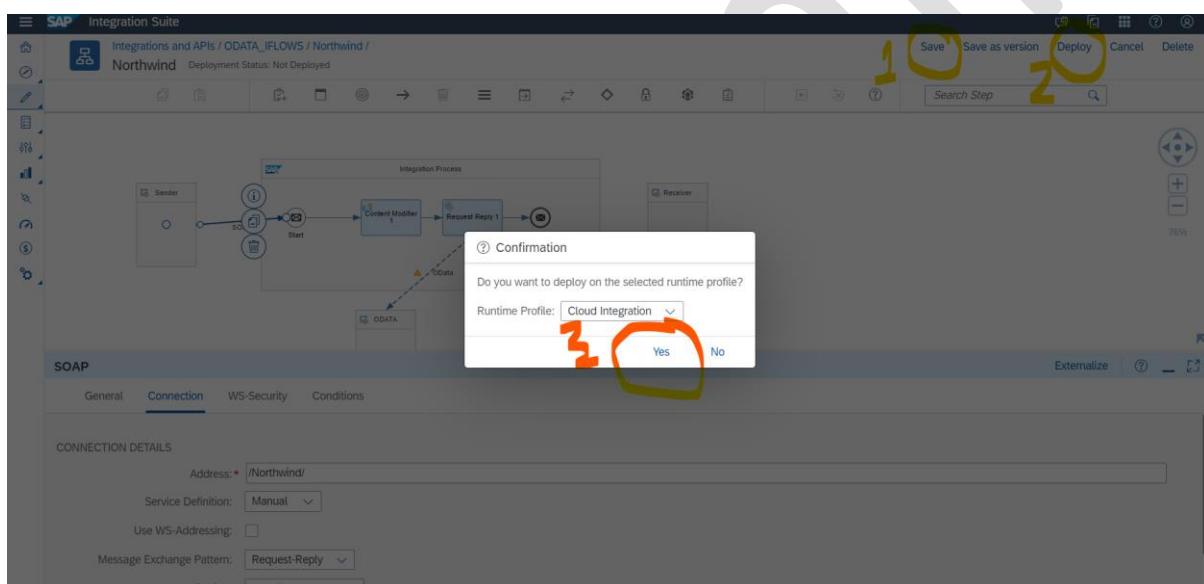
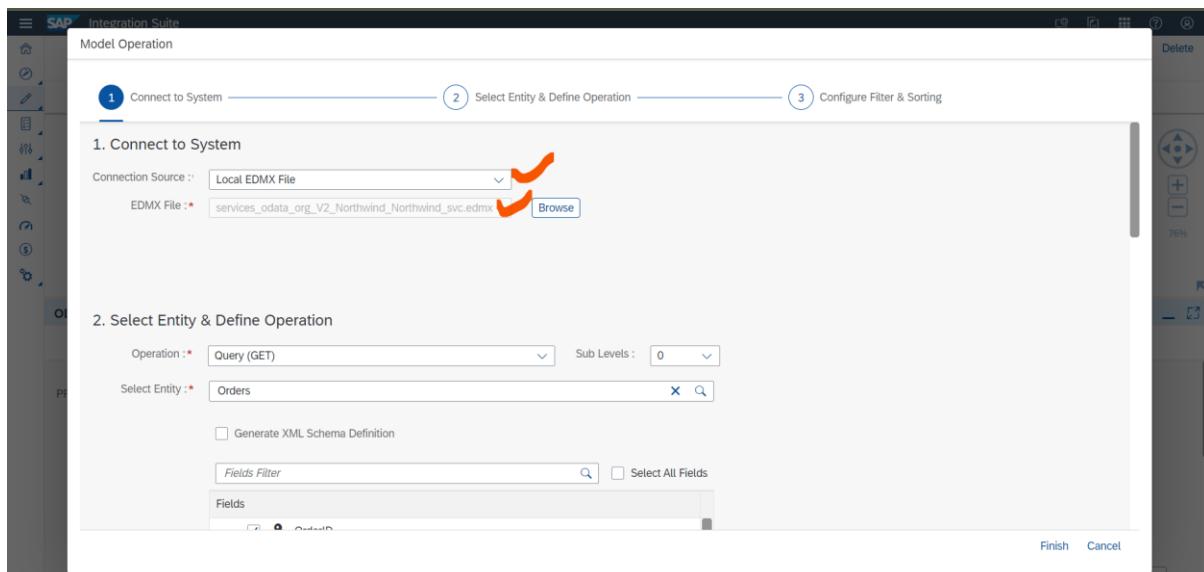
Finish Cancel

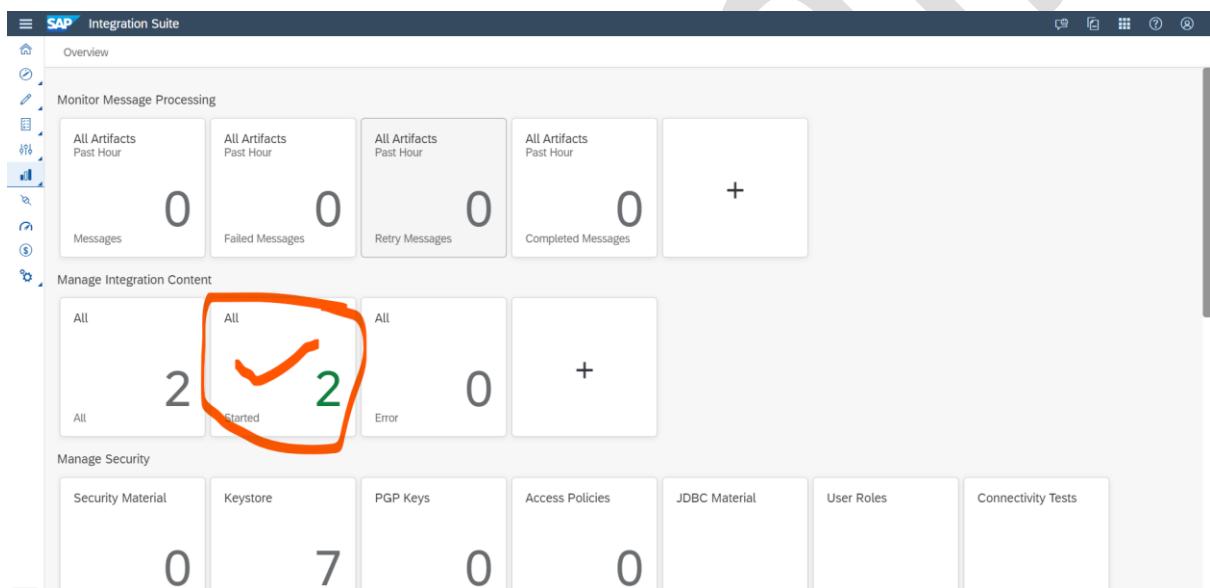
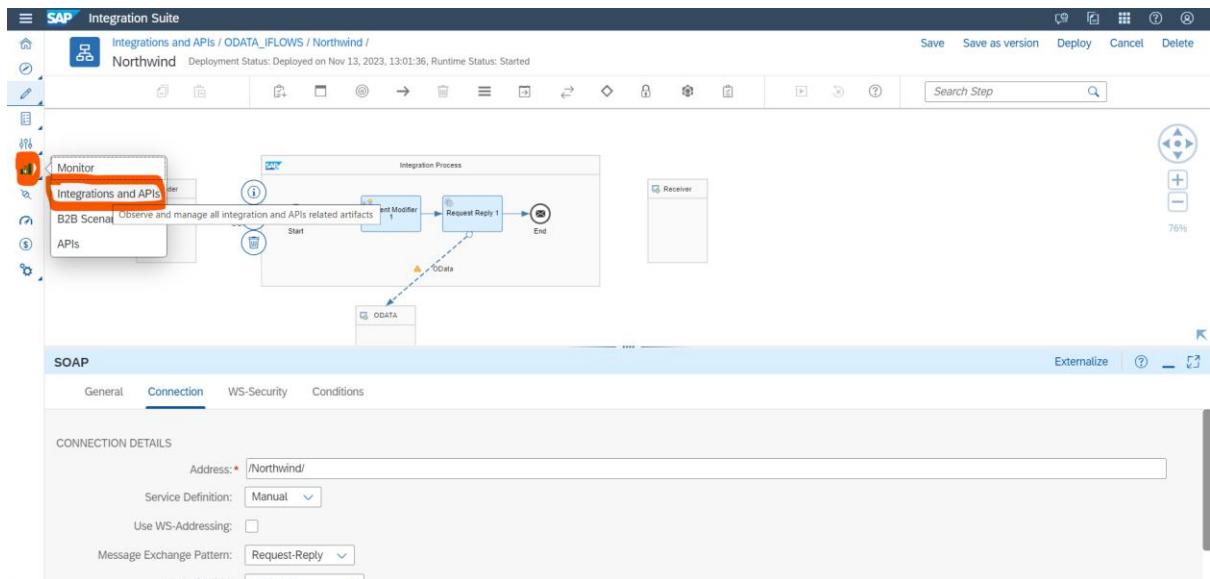


For the where clause, we can use 3<sup>rd</sup> step.



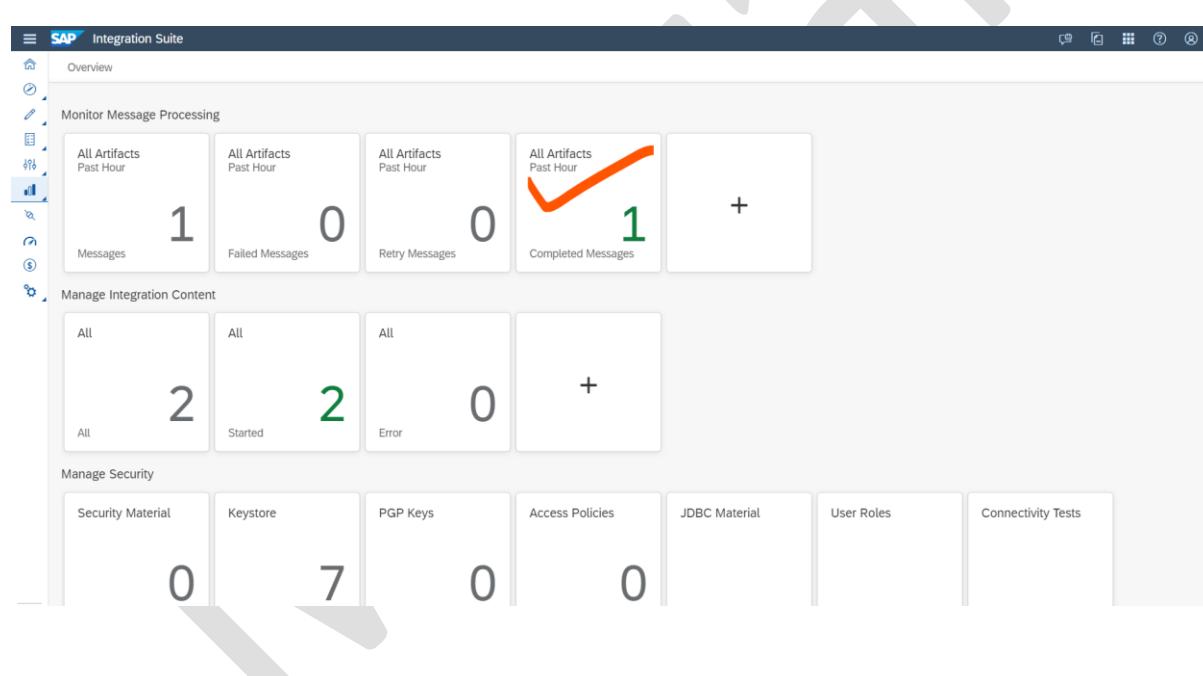
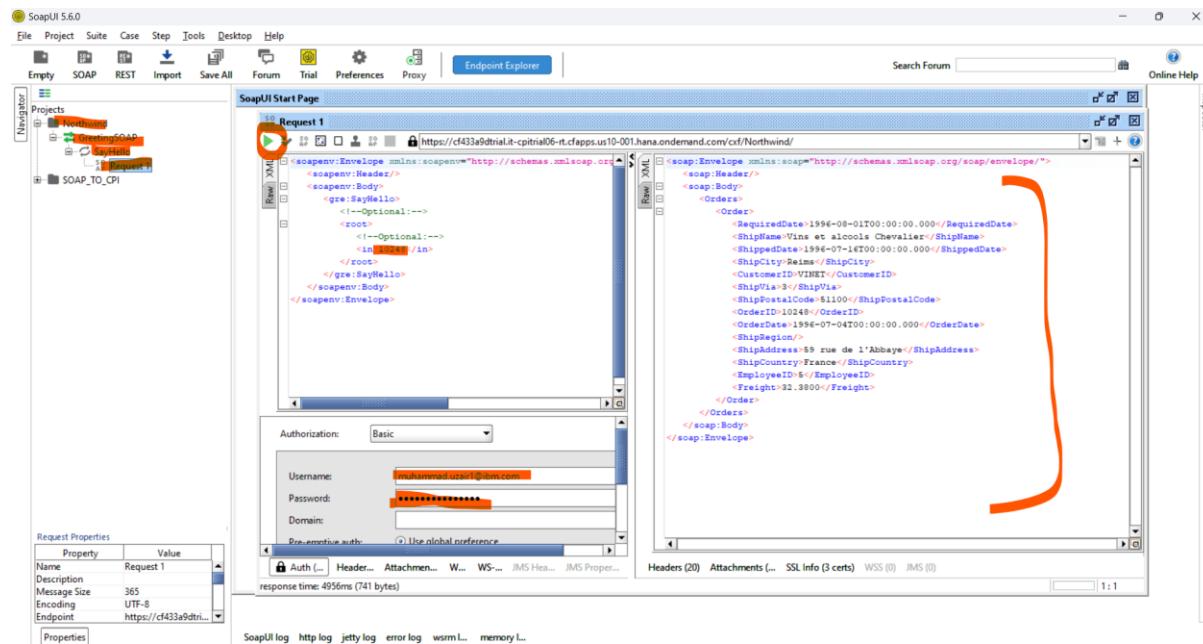
If you again click on Select button you will see EDMX File.





The screenshot shows the SAP Integration Suite interface. On the left, the 'Integration Content' list includes 'Northwind' (Integration Flow, Started) and 'Soap\_Demo' (Integration Flow). The 'Northwind' entry is selected. The main panel displays 'Northwind' details: Deployed On: Nov 13, 2023, 13:01:36; ID: Northwind; Package: ODATA\_IFLOWS; Version: 1.0.0. Below this are tabs for 'Endpoints', 'Status Details', 'Artifact Details', and 'Log Configuration'. Under 'Endpoints', a WSDL URL is listed: <https://cf433a9dtrial1.it-cptrial06-re.cfapps.us10-001.hana.ondemand.com/cxf/Northwind/>. The 'Status Details' section indicates the integration flow is deployed successfully. The 'Artifact Details' section provides links to monitor message processing, view deployed artifact, and navigate to artifact editor.

The screenshot shows the SoapUI 5.6.0 interface. The toolbar has 'SOAP' highlighted with a red circle. The 'Projects' navigator shows an 'Empty SOAP' project. The main window displays the 'SoapUI Start Page' with a 'New SOAP Project' dialog open. The dialog shows 'Project Name: Northwind' and 'Initial WSDL: [empty]'. A 'Browse...' button is highlighted with a red circle. The 'OK' button at the bottom right of the dialog is also highlighted with a red circle. To the right of the dialog, there's a 'Resources' sidebar with links like 'Test a REST API', '10 Tips for Beginners', and 'Get Certified'.



The screenshot shows the SAP Integration Suite interface for monitoring message processing. The main title is "Overview / Monitor Message Processing". The search bar includes filters for "Time: Past Hour", "Status: Completed", "Artifact: All Integration Flows", and an "ID" search field. A large orange checkmark is overlaid on the screenshot, indicating success.

**Messages (1)**

Artifact Name	Status
Northwind	Completed

Nov 13, 2023, 13:19:16      1 sec 722 ms

**Northwind** Last Updated at: Nov 13, 2023, 13:19:16

**Status** Properties Logs Artifact Details

Message ID: AGVR3AKgF29CoexSsSDW7hwZC84c  
Correlation ID: AGVR3AKFBnv0tQXLCKc9GompOQDm  
Sender: Sender\_SOAP

Processing Time: 1 sec 722 ms

**Properties**

Log Level: Info  
Instance ID: 0

[Open Text View](#)

