Data Transformation: Open Items Payable
SAP Business ByDesign to
SAP S/4HANA Cloud Public Edition Guide

For SAP Cloud Integration

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Public Edition

1. Introduction
In this guide you shall learn how to consume the integration flow to transform data of an object in SAP Business ByDesign into a form suitable and acceptable by SAP S/4HANA Cloud Public Edition.

1.1. Definition
This integration flow is an accelerator that transforms the standard data of 'Open Items Payable's object in SAP Business ByDesign into the SAP S/4HANA Cloud Public Edition's migration template of object 'FI - Accounts Payables open item'.

1.2. Intended Audience
This integration flow is intended to be used by both partners and customers who are in the data migration phase of their implementation project of moving their SAP Business ByDesign system to SAP S/4HANA Cloud Public Edition system. This integration flow shall act as an accelerator to kick start and speed up your data migration task. However, it does not cover all attributes and mappings, hence enhance it as per your requirement.

1.3. Structure
The structure of this guide follows the sequence of steps required to consume the integration flow for the purpose of data transformation using SAP Integration Suite service on SAP BTP.

1.4. System Connectivity
To use this integration flow, you don't have to connect your SAP Business ByDesign system or SAP S/4HANA Cloud system to SAP Integration Suite. The data extracted from SAP Business ByDesign is passed to SAP Integration Suite over HTTPS and the data prepared as output is a file that can be taken manually and uploaded in SAP S/4HANA Cloud Public Edition via Migration Cockpit.

1.5. Additional Documentation
You may refer to these topics via links to gain insights into various topics you need to know before using the integration flow.

SAP Integration Suite
https://help.sap.com/docs/cloud-integration/sap-cloud-integration/sap-cloud-integration?version=Cloud

SAP Business ByDesign Data Extraction
https://help.sap.com/docs/SAP_BUSINESS_BYDESIGN/2754875d2d2a403f95e58a41a9c7d6de/2bff33a5722d10148b06d3479e04c151.html?version=2002

SAP S/4HANA Cloud Public Edition Migration Cockpit
https://help.sap.com/docs/SAP_S4HANA_CLOUD/d5699934e7004d048c4801b552f3b013/f32db0c240484241abc53a876253e118.html?version=2408.500

Data Transformation: Open Items Payable SAP Business ByDesign to SAP S/4HANA Cloud Public Edition

Technical Data Migration SAP Business ByDesign to SAP S/4HANA Cloud
https://learning.sap.com/videos/overseeing-the-transition-from-sap-business-bydesign-to-sap-s-4hana-cloud-

Setting up Required systems and Users
https://learning.sap.com/videos/preparing-for-data-migration-from-sap-business-bydesign-to-sap-s-4hana-cloud

2. Business Scenario

Customers who are looking to migrate from SAP Business ByDesign ERP system to SAP S/4HANA Cloud Public Edition ERP system need an easy data migration path to save time and effort on data migration activities which is quite intensive.

With this intention SAP has delivered the mapping of data fields from SAP Business ByDesign Open Items Payables object to SAP S/4HANA Cloud Public Edition equivalent object as part of this integration flow. The end result of the integration flow will provide you the Open Items Payables file that is in the form of SAP S/4HANA Cloud Public Edition's product migration template. You shall upload this file via Migration Cockpit in SAP S/4HANA Cloud Public Edition. This helps you to save effort and prepare the file easily for upload.

3. Prerequisites

To consume the integration flow, you should have the following things done
   a) Set up account in SAP BTP and subscribe to SAP Integration Suite service.
   b) Set up required user roles and authorization in SAP BTP subaccount
   c) Set up the required capabilities in SAP Integration Suite to trigger integration flow.
   d) User should have authorisation to the Migration Cockpit app in SAP S/4HANA Cloud Public Edition
   e) The user should have unrestricted access to Payables work center and Business Analytics work center in the SAP Business ByDesign system.
   f) User should have the date format **DD.MM.YYYY** in SAP Business ByDesign system. if the date format is different user shall change it to the said format by navigating to User->My Settings->Date.

Please refer to the links mentioned in the section Additional Documentation to complete the prerequisites.

4. Consumption of integration flow

Follow the steps below to transform your data and upload it to SAP S/4HANA Cloud Public Edition.

4.1. Data Extraction

To consume the integration flow for transformation you need to extract the required Open Items Payable data from SAP Business ByDesign system.

Extract the data from SAP Business ByDesign: Open Items Payable data is extracted from the SAP Business ByDesign using the following reports: *Accounts Payable - Open Items (FINGLAU08_Q0004), Deferred Tax Items (FINTAXU04_Q0002)* and *Withholding Tax Items (FINTAXU08_Q0001)*.

Follow the steps to extract the data for Open Items -Payables' integration flow.

1. Extract the data from the report *Accounts Payable - Open Items*

I. Logon to SAP Business ByDesign system (where the data is residing) and on the left menu, navigate to Business Analytics Work center and then go to Design Reports View.

II. Search for the report **Accounts Payable - Open Items**. Click on the report *Accounts Payable - Open Items* to open it. Once the report is opened, click on "*Click here to start the report*" to get the data.
Kindly also check the Knowledge article How Does Reporting Works in Business ByDesign for overview on using reports.

III. Pass the values for the following selection parameters in the report as mentioned below in the table.

Note: If you cannot find any Selection parameter mentioned in below table then do the following. In the top right corner, click on Configure icon ⚙ > Add Fields. Search for missing field and select the checkboxes Display in Report and Display in Selection to add them to Selection and Report.

Selection Parameter Name Value	Value
Company	One Company at a time
Set Of Books	Selected company's Default Set of Book ID
Key Date	Today
Status	Select all statuses except: #- Not Assigned

Note: You will have to extract the report data for each Company as the default set of books could be different.

IV.   Define a view for the report with the following list of result parameters:

Result Parameter Name	Field format
Company	Only ID
Set of Books	Only ID
Supplier	Only ID
Status	Only Description
External Reference	Only ID
Document Type	Only Description
Doc. Number	Only ID
Source Doc. Type	Only Description
Source Doc. ID	Only ID
Source Doc. Date	Only ID
Journal Entry	Only ID
Journal Entry Type	Only Description
Currency Conversion Date	Only ID
Document Description	Only ID
Payment Block Indicator	Only ID
Transaction Currency	Only ID
Company Currency	Only ID
Invoice Description	Only ID
Open Amount	

V.   Once all the fields in the above list are added to the report, follow the below steps for all required sheets,

VI.   On the left side panel, In the **View** section and click on **Chart/Table Settings** icon.
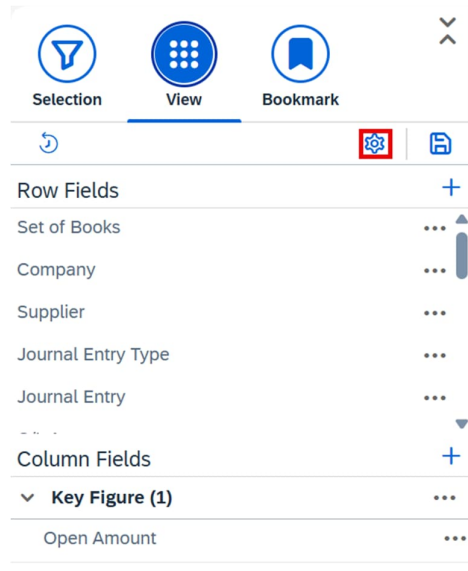
VII.   **Enable** the checkbox for **Display Repeated Text** and **Disable** the Checkbox for **Limit Data.**
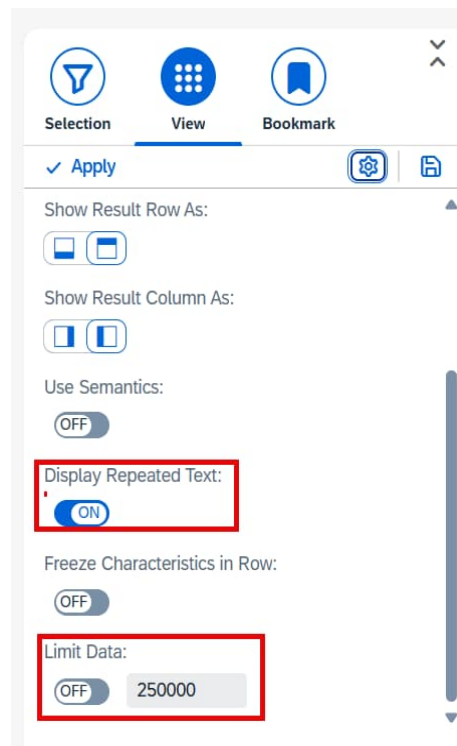
VIII.   After the making the above changes, click on **Chart/Table Settings** icon again to display Row fields and Column fields.

IX.   Select More options for Key Figure (1) and select **Key Figure Settings**.
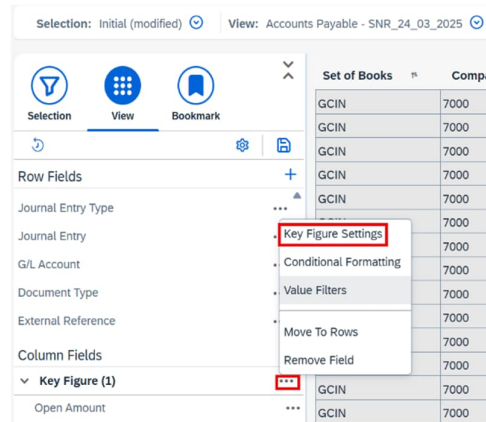
X.   Select **General** tab and Under Zero Suppression section, for Field **Apply Suppression to Rows** choose "**Suppress When All Values Equal Zero".** Click on **Ok**.
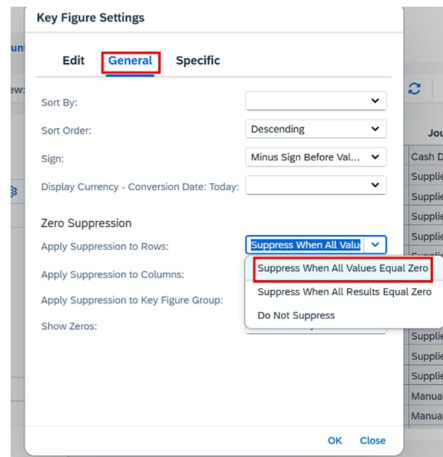
XI.   Execute the report and download the data into XML file as shown in the screenshot below.
        Note: Make sure to hide result row for all the fields in report.
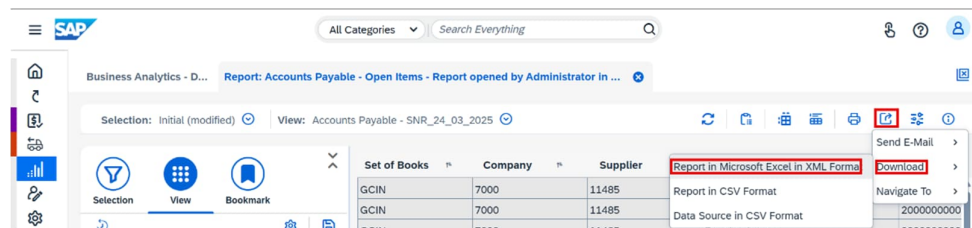
XII.   Rename the downloaded XML file as "**Account Payables Open Items.xml**".

2. Extract the data from the report *Deferred Tax Items*

I.   The Deferred tax details can be extracted from the report Deferred Tax Items(FINTAXU04_Q0002) by following the below steps.

II.   Search for the report **Deferred Tax Items** in Design Reports View of Business Analytics Work Center. Click on the report *Deferred Tax Items* to open it.

III.   Pass the values for the following selection parameters in the report as mentioned below in the table.

Selection Parameter Name Value	Value
Company	Select all the Companies
Set Of Books	Default Set of Books ID
VAT / Sales Tax Due Category	Receivable
Offset Customer/Supplier ID	Include all Customers except "Not Assigned"
Status	Select all status Except Cleared
G/L Account	Select the G/L account for input tax deferred
Key Date	Today

Note: You will have to extract the report data for each Company as the default set of books could be different.

IV.   Define a view for the report with the following list of result parameters:

Result Parameter Name	Field format
Company	Only ID
Set of Books	Only ID
G/L Account	Only ID
Source Doc. ID	Only ID
Source Document ID	Only ID
Journal Entry	Only ID
Journal Entry Item	Only ID
Journal Entry Type	Only Description
Offset Customer/Supplier ID	Only Description
VAT / Sales Tax Code	Only ID
Balance Transaction Currency	Only ID
Balance Company Currency	Only ID
VAT / Sales Tax Due Category	Only ID

V. Once all the fields in the above list are added to the report, follow the same steps mentioned above for the sheet "**Account Payables Open Items.xml**".

VI. Rename the downloaded XML file as "**Deferred Tax Items.xml".**

3. Extract the data from the report *Withholding Tax Items*

I. The Withholding tax details can be extracted from the report Withholding Tax Items(FINTAXU08_Q0001) by following the below steps.

II. Search for the report **Withholding Tax Items** in Design Reports View of Business Analytics Work Center. Click on the report *Withholding Tax Items* to open it.

III. Pass the values for the following selection parameters in the report as mentioned below in the table.

Selection Parameter Name Value	Value
Company	Select all the companies
Set Of Books	Default Set of Books
VAT / Sales Tax Due Category	Payable
Offset Customer/Supplier ID	Include all Customers except "Not Assigned"
Status	Select all status Except Cleared
G/L Account	Select the G/L account for Output deferred taxes
Key Date	Today
Tax Country/Region	Country of Selected Company
Payment Date	Based on business need, preferably "Last Quarter"

Note: You will have to extract the report data for each Company as the default set of books could be difference.
Define a view for the report with the following list of result parameters:

IV. Define a view for the report with the following list of result parameters:

Result Parameter Name	Field format
Company	Only ID
Supplier	Only ID
Supplier Invoice ID	Only ID
Tax Type	Only Description
Document Type	Only Description
Tax Code	Only ID
Clearing Status	Only Description
Tax Country/Region	Only ID

Invoice Amount	Only ID
Tax Base Amount	Only ID
Tax Amount	Only ID
Source Document ID	Only ID
Document ID	Only ID

V.   Once all the fields in the above list are added to the report, follow the same steps mentioned above for the sheet "**Deferred Tax Items.xml".**

VI.   Rename the downloaded XML file as "**Withholding Tax Items.xml".**

4.2. Data Preparation

The data extracted is in raw form and cannot be consumed by the integration flow. Therefore, you should prepare the data in the form that integration flow can accept.

Prepare the extracted data: Merge the extracted data (XML files) in one file and format the rows and columns as mentioned below

1. Open "**Account Payables Open Items.xml**" in Microsoft Excel and modify the format as described below.

I.   Delete the rows 1 to 12 from the sheet in the file so that the result data starts from row 1 in the file as shown below.

II.   Delete all empty Columns if any (Check first and last column in the table).

III.   Rename the sheet name to "**Open Items**".

Note: Keep the "**Account Payables Open Items.xml**" XML file open in Microsoft Excel in the background.

2. Open "**Deferred Tax Items.xml**" downloaded XML file in Microsoft Excel and modify the format as described below.

i. Delete the rows 1 to 13 from the sheet in the file so that the result data starts from row 1 in the file as shown below.

ii. Delete all empty Columns if any (Check first and last column in the table)

iii. Rename the sheet to "**Deferred Tax Data**".

	Set of Books	Company	G/L Account	Source Doc. ID	Journal Entry Type	Journal Entry	Jou
2	3000	1000	445665	F111-1-2017	Supplier Invoice	200000000001	2
3	3000	1000	445665	F111-33-2016	Supplier Invoice	200000000024	2
4	3000	1000	445665	F555-1-2017	Supplier Invoice	200000000079	2
5	3000	1000	445665	F555-3-2017	Supplier Invoice	200000000017	2
6	3000	1000	445665	F555-4-2017	Supplier Invoice	200000000018	2
7	3000	1000	445665	TEST_1147_2024	Supplier Invoice	200000000029	2
8	3000	1000	445665	TEST_1148_2024	Supplier Invoice	200000000030	2
9	3000	1000	445665	TEST_1150_2024	Supplier Invoice	200000000032	2
10	3000	1000	445665	TEST_138_2018	Supplier Invoice	200000000018	2
11	3000	1000	445665	TEST_145_2018	Supplier Invoice	200000000024	3
12	3000	1000	445665	TEST_166_2019	Supplier Invoice	200000000058	2
13	3000	1000	445665	TEST_170_2019	Supplier Invoice	200000000027	2
14	3000	1000	445665	TEST_197_2019	Supplier Invoice	200000000014	2

Deferred Tax Data

Note: Keep the "**Account Payables Open Items.xml**" XML file open in Microsoft Excel in the background.

3. Open **"Withholding Tax Items.xml"** downloaded XML file in Microsoft Excel and modify the format as described below.

i. Delete the rows 1 to 13 from the sheet in the file so that the result data starts from row 1 in the file as shown below.
ii. Delete all empty Columns if any (Check first and last column in the table)
iii. Rename the sheet to **"Withholding Tax Data".**

Data Transformation: Open Items Payable SAP Business ByDesign to SAP S/4HANA Cloud
Public Edition

Note: Keep the "**Account Payables Open Items.xml**" XML file open in Microsoft Excel in the background.

4. Merge the data files in one single file.
   i.   Right click on the Sheet Deferred tax Items and click on Move or Copy

   ii.   Select the "**Account Payables Open Items.xml**" XML file in *To Book* dropdown and select the option *"(move to end)"* in before Sheet section, click on Check the **Create a Copy** box and click **Ok** as shown in the screenshot below

iii.   The Deferred Tax details are now copied to "**Account Payables Open Items.xml**" XML file.

iv.   Similarly, Right click on the Sheet Withholding tax Items and click on Move or Copy

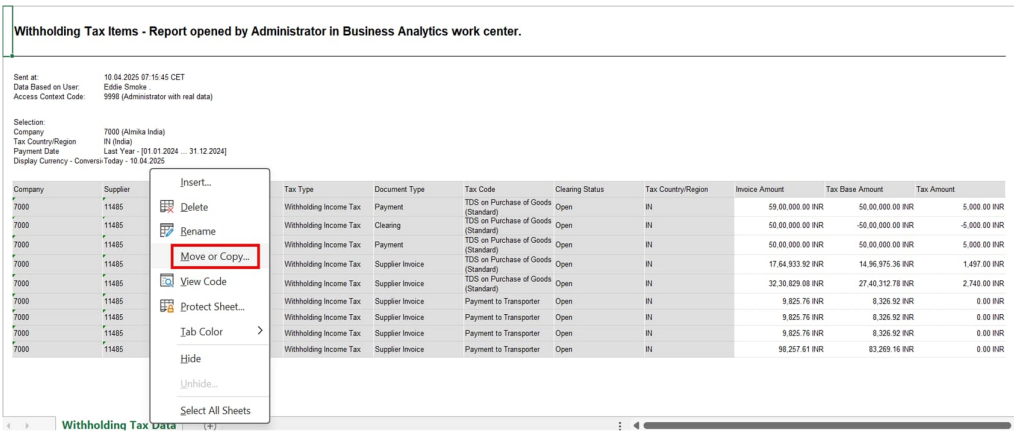v.   Select the "**Account Payable Open Items.xml**" XML file in *To Book* dropdown and select the option *"(move to end)"* in before Sheet section, click on Check the ***Create a Copy*** box and click ***Ok*** as shown in the screenshot below
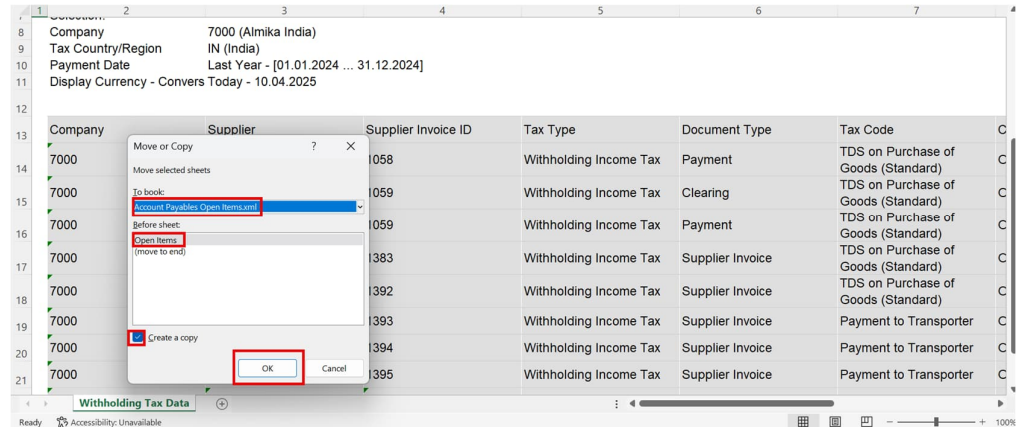
vi.   The Withholding Tax details are now copied to "**Account Payables Open Items.xml**" XML file.

vii. Save the "**Account Payables Open Items.xml**" XML file with two sheets *Open Items* and *Deferred Tax Items*. Convert it into a ZIP file. This ZIP file should be fed to the iflow for transformation. Below you can see the final merged file.

4.3. Data Transformation

Once the data is prepared and ready in the required form, you are ready to execute the integration flow.

Make the following preparations to load the integration flow for executing data transformation.

I.   Login to SAP Cloud Integration and search for the package "SAP Business ByDesign Accounting Data Transformation to SAP S/4HANA Cloud Public Edition". Open and copy the package into your workspace.

II.   Open the Integration flow "ByD Open Items Payable Data Transformation" from your workspace and click on Edit.

III. Deploy the integration flow. Refer to the learning session for details.
IV. After successful deployment of integration flow, make a note of the End Point URL generated. Refer to the learning session for details.

To consume the integration flow for data transformation and create a S/4HANA migration file, follow the steps below. For details refer to the [learning session](#).

I. Set up an application to trigger the integration flow e.g., Postman.
II. Create a POST HTTP request, provide the user credentials, and upload the extracted ZIP file in the body of the request.
III. Send the request to the end point URL of integration flow. This will trigger the integration flow and start the data transformation. As a result, you shall receive a response file back from your triggering application.
IV. Save the response ZIP file received. Extract the ZIP package and Open the XML file in Microsoft Excel. Click on *Save*.
V. **Note:** In the response XML, some records contain fields that require your attention. These instances can be identified by locating cells with the value **"<<Enter Manually>>"**.
VI. **Note:** Unprocessed Records log: During data transformation in the integration flow, certain records may not be processed and requires manual processing. Follow the steps below to find such unprocessed records log and act on them.
   a) In SAP Integration Suite, navigate to the left-side menu and select **Monitor**. Then, click on **Integrations and APIs** under the Monitor.
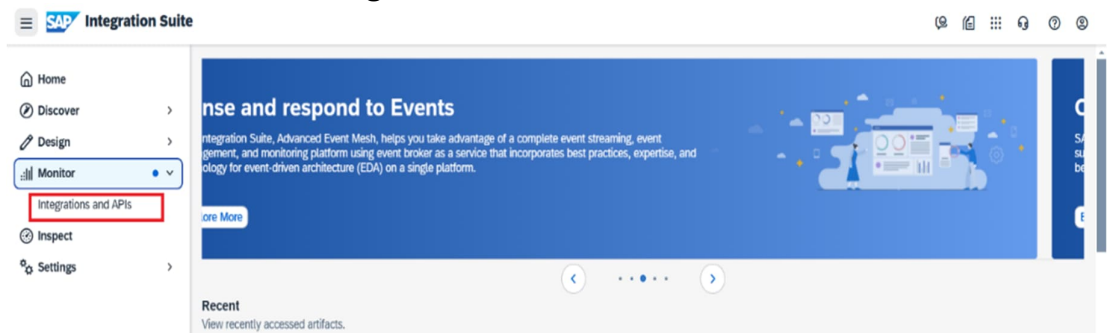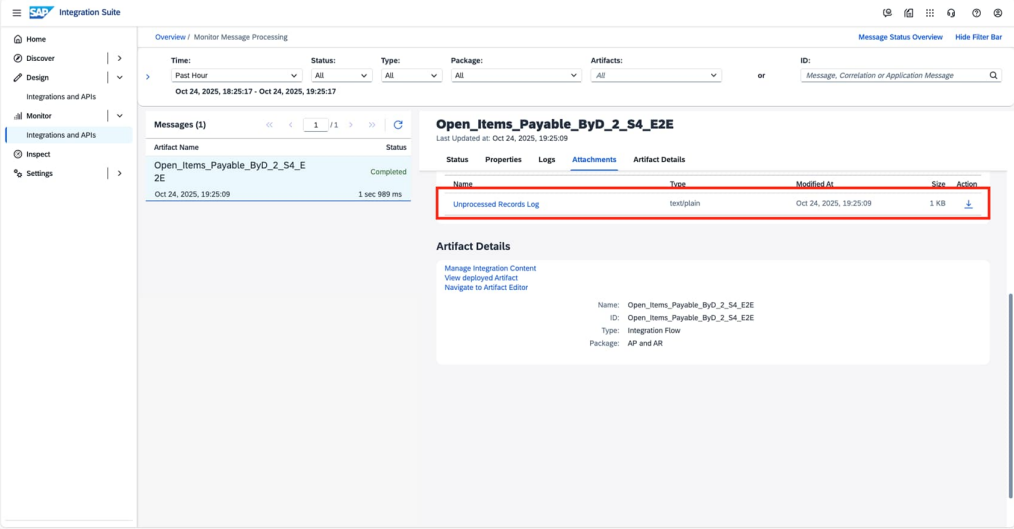

   b) Under Monitor Message Processing, Select **All Artifacts - Past Hour Messages** to view recent message processing data.
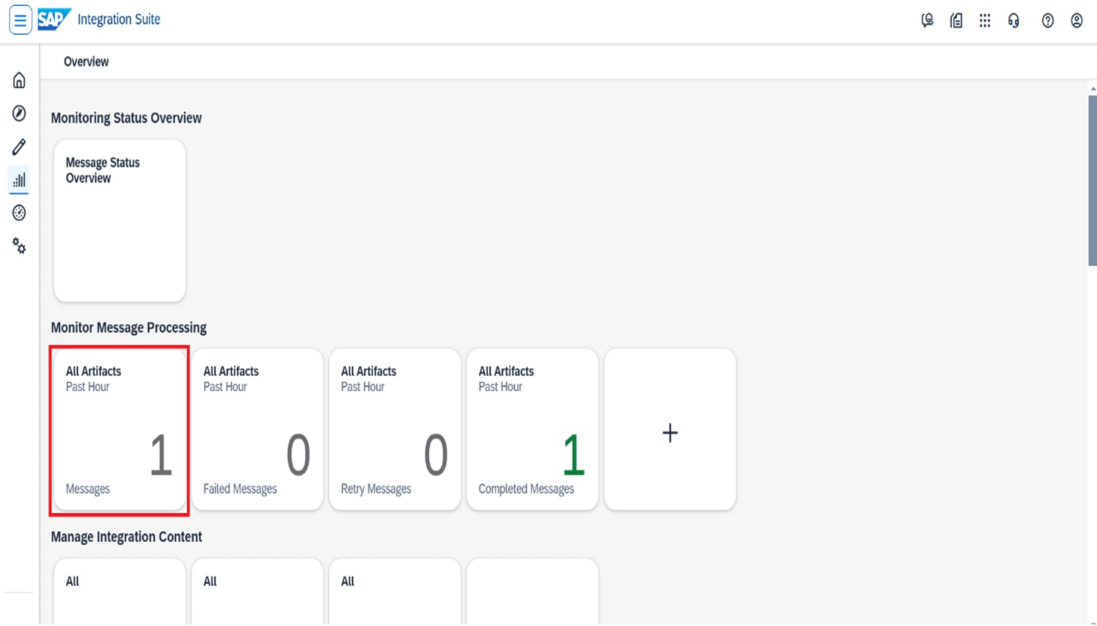
c) Locate the relevant message based on the integration flow name and
   trigger time, then click on it. On the right-hand panel, select
   Attachments.
d) In the **Attachments** section, you will find an entry named "**Unprocessed
   Records Log**".

e) Open the log file to identify records that were not processed. The log
   specifies unprocessed records in the respective sheets.
f) Example: If the log states **"Open Items: 2, 4, 6"**, it indicates that in the
   SAP Business ByDesign extracted XML file, records **2, 4, and 6** in the
   Open Items sheet were not processed.
   a. **Note:** The first row of the sheet represents column headers and
      should not be included in the record count.

4.4. Data Upload

Once the data is transformed and you have received the S/4HANA template file filled with the data (response file) you are ready to upload the same to S/4HANA system via Migration Cockpit.

Follow the below steps to upload the data to S/4HANA system:
a. Save the response ZIP file received.
b. Extract the ZIP package and open the XML file in Microsoft Excel. Click on save. Close the file.
c. This is the file that should be taken to SAP S/4HANA Cloud Public Edition migration project and uploaded. For details on uploading a file via migration cockpit in SAP S/4HANA Cloud Public Edition refer to this help document.

5. Customization and Enhancement of integration flow

You can customize the mapping or enhance the integration flow as per your requirement. For details on customization, you can refer to these tutorials:
- Tutorial 1: Customizing standard integration flows for data migration from SAP Business ByDesign to SAP S/4HANA Cloud Public Edition.
- Tutorial 2: Updating data structure in integration flows for data migration from SAP Business ByDesign to SAP S/4HANA Cloud Public Edition.

6. Contact Information

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