

# **Data Migration: G/L Balances SAP Business One to SAP S/4HANA Cloud Public Edition Guide**

For SAP Cloud Integration

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## 1. Introduction

In this guide you shall learn how to consume the integration flow to transform data of an object in SAP Business one 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 'G/L Balances' object in SAP Business One into the SAP S/4HANA Cloud Public Edition's migration template of object 'G/L Balances'.

### 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 One 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 One system or SAP S/4HANA Cloud system to SAP Integration Suite. The data extracted from SAP Business One 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 S/4HANA Cloud Public Edition Migration Cockpit

[https://help.sap.com/docs/SAP\\_S4HANA\\_CLOUD/d5699934e7004d048c4801b552f3b013/f32db0c240484241abc53a876253e118.html?version=2408.500](https://help.sap.com/docs/SAP_S4HANA_CLOUD/d5699934e7004d048c4801b552f3b013/f32db0c240484241abc53a876253e118.html?version=2408.500)

Technical Data Migration 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 One 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 One G/L Balances 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 G/L Balances 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 access to the G/L module in SAP Business One system.
- f) User should use the date format **DD.MM.YYYY** when extracting from SAP Business One system
- g) User should use the Query Generator in SAP Business One to extract the data.
- h) The data obtained from Query Generator should be exported in the format \*.xlsx

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 to SAP S/4HANA Cloud Public Edition.

### 4.1. Data Extraction

To consume the integration flow for transformation you need to extract the required G/L data from SAP Business One system.

**Extract the data from SAP Business One:** G/L Balances data is extracted from the SAP Business One using the following approach.

1. Run the below query in SAP Business One system. This query collects data from all relevant tables where the G/L Balances data is stored.

**-- Query to be used when using Segmented chart of Accounts.**

```
SELECT T0."FormatCode" AS "Account", T0."AcctName", T0."CurrTotal", T1."MainCurrency",  
T1."Company Name" FROM OACT T0, OADM T1 WHERE T0."Postable"='Y' AND  
T0."CurrTotal"!=0
```

**-- Query to be used when using Non-Segmented chart of Accounts.**

```
SSELECT T0."AcctCode" AS "Account", T0."AcctName", T0."CurrTotal", T1."MainCurrency",  
T1."Company Name" FROM OACT T0, OADM T1 WHERE T0."Postable"='Y' AND  
T0."CurrTotal"!=0
```

2. Export the result of the query in an excel file and name it “GLBalance.xlsx”. Make sure that you do not use any other name for the file.

## 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:** Formatting and merging is required to be done as part of preparation of the data for iflow.

1. The output excel file should be exactly as shown below. DO NOT CHANGE the column names (highlighted in yellow)

	A	B	C	D	E	F
1	#	Account	Account Name	Current Balance	Local Currency	Company Name
2	1	ANCP01001000000	Land (DFT, DFT)	63969540	PKR	Company
3	2	ANCP01002000000	Building Account (FH) (DFT, DFT)	19937767.5	PKR	Company
4	3	ANCP01003000000	Plant & Machinery (FH) (DFT, DFT)	62355015.7	PKR	Company
5	4	ANCP01004000000	Furniture & Fixture (FH) (DFT, DFT)	6750846.6	PKR	Company
6	5	ANCP01005000000	Office Equipment (FH) (DFT, DFT)	1571320	PKR	Company
7	6	ANCP01006000000	Vehicles (FH) (DFT, DFT)	119652867	PKR	Company
8	7	ANCP01007000000	Technical Books (FH) (DFT, DFT)	125720	PKR	Company
9	8	ANCP01008000000	Television & Telephones (FH) (DFT, DFT)	1792994	PKR	Company
10	9	ANCP01009000000	Laboratory Equipment (FH) (DFT, DFT)	13293167.5	PKR	Company
11	10	ANCP01010000000	Electrical Appliances (FH) (DFT, DFT)	15600870	PKR	Company
12	11	ANCP01011000000	Computer (FH) (DFT, DFT)	9197041	PKR	Company
13	12	ANCP01012000000	Generators (FH) (DFT, DFT)	17392442	PKR	Company
14	13	ANCP01013000000	Time Recordering Machine (FH) (DFT, DFT)	121800	PKR	Company
15	14	ANCP02001000000	Building Accumulated Depreciation (FH) (DFT, DFT)	-10334702.57	PKR	Company
16	15	ANCP02002000000	Plant & Machinery Accumulated Depreciation (FH) (DFT, DFT)	-38404476.42	PKR	Company
17	16	ANCP02003000000	Furniture & Fixture Accumulated Depreciation (FH) (DFT, DFT)	-4369036.215	PKR	Company
18	17	ANCP02004000000	Office Equipment Accumulated Depreciation (FH) (DFT, DFT)	-1250598.273	PKR	Company
19	18	ANCP02005000000	Vehicles Accumulated Depreciation (FH) (DFT, DFT)	-63217932.84	PKR	Company
20	19	ANCP02006000000	Technical Books Accumulated Depreciation (FH) (DFT, DFT)	-109585.511	PKR	Company

2. Zip the excel file to create a \*.ZIP file. Save this 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. Download the iflow for G/L Balances for B1 (provided by SAP).
- II. Upload the iflow in your SAP Integration Suite system.
- III. Deploy the integration flow.
- IV. After successful deployment of integration flow, make a note of the End Point URL generated.

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 ZIP file (created in Data Preparation step) 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.

**Note:** In the response XML, some records might contain fields that require your attention. These instances can be identified by locating cells with the value “<<Enter Manually>>”.

#### 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. These tutorials are built for SAP Business ByDesign but the same concept applies to SAP Business One object iflows.

- [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

**Email:**

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**Support Ticket Component:**

CA-S4H-B1-IFLOW