

Data Migration: Supplier 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 ‘Supplier’ object in SAP Business One into the SAP S/4HANA Cloud Public Edition’s migration template of object ‘Supplier’.

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

Technical Data Migration to SAP S/4HANA Cloud

<https://learning.sap.com/video-playlists/migrating-data-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 Supplier 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 Supplier file that is in the form of SAP S/4HANA Cloud Public Edition's Supplier 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 Suppliers 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 Supplier data from SAP Business One system.

Extract the data from SAP Business One: Supplier data is extracted from the SAP Business One using the following approach.

1. Run the below queries one by one in SAP Business One system. These queries collect data from all relevant tables where Supplier data is stored.

a) General Data

```
SELECT T0."CardCode", T0."CardType", T0."GroupCode", T0."DebPayAcct",
T0."CardName", T0."CardFName", T2."Name", T2."FirstName", T2."LastName", T2."Gender", T2."Title",
T2."BirthDate", T2."BirthPlace", T2."MiddleName", T2."Profession", T3."Address", T3."TaxId0",
T3."AddrType", T3."ECCNo", T3."CERegNo", T3."CERange", T3."CEDivis", T3."CEComRate",
T3."SefazDate", T3."TaxId9", T3."TaxId11", T3."TaxId12", T3."TaxId13", T0."VatIDNum", T1."AdresType",
T1."Address", T1."Address2", T1."Address3", T1."Building", T1."Block", T1."Street",
T1."StreetNo", T1."City", T1."ZipCode", T1."State", T1."Country", T1."TaxCode", T1."GSTType",
T1."GSTRegnNo", T0."CmpPrivate", T0."Phone1", T0."Phone2", T0."Fax", T0."Cellular", T0."E_Mail",
T0."EORINumber", T0."CrtfcateNO", T0."NINum", T0."ExpireDate" FROM OCRD T0 LEFT JOIN CRD1
T1 ON T0."CardCode" = T1."CardCode" LEFT JOIN OCPR T2 ON T0."CardCode" = T2."CardCode"
LEFT JOIN CRD7 T3 ON T0."CardCode" = T3."CardCode" WHERE T0."CardType"='S'
```

b) Additional Addresses Data

```
SELECT T0."CardCode", T1."Address", T1."AdresType", T1."Building", T1."Address2", T1."Address3",
T1."Block", T1."Street", T1."StreetNo", T1."City", T1."ZipCode", T1."State", T1."Country", T0."Phone1",
T0."Phone2", T0."Cellular", T0."E_Mail" FROM OCRD T0 INNER JOIN CRD1 T1 ON T0."CardCode" =
T1."CardCode" WHERE T0."CardType"='S'
```

c) Address Usages Data

```
SELECT

CASE

WHEN T0."BillToDef" = T1."Address" OR T0."ShipToDef" = T1."Address" THEN 'X'

ELSE ''

END AS "Standard",

T1."CardCode", T1."Address", T1."AddrType" FROM "OCRD" T0 INNER JOIN "CRD1" T1 ON
T0."CardCode" = T1."CardCode" WHERE T0."CardType" = 'S'
```

d) General Texts Data

```
SELECT T0."CardCode", T0."Free_Text", T0."LangCode" FROM OCRD T0 INNER JOIN OLNG T1 ON
T0."LangCode" = T1."Code" WHERE T0."CardType"='S'
```

e) Company Data

```
SELECT T0."CardCode", T0."DebPayAcct", T0."DflAccount", T0."DflBankKey", T0."DflBranch",
T0."PlngGroup", T0."PaymBlock", T0."PyBlckDesc", T1."GroupNum", T2."PymCode" FROM OCRD T0
LEFT JOIN OCTG T1 ON T0."GroupNum" = T1."GroupNum" LEFT JOIN CRD2 T2 ON T0."CardCode" =
T2."CardCode" WHERE T0."CardType"='S'
```

f) Withholding Tax Data

```
SELECT T0."CardCode", T2."TaxId0", T0."VerifNum", T0."WTLiable", T0."WTTaxCat",
T0."WHShaamGrp", T0."CrtfcateNO", T0."ExpireDate", T2."AddrType", T3."WTCODE", T3."WTName",
T3."Rate", T3."EffecDate", T3."Category", T3."Account", T3."Type", T3."WTTypeld", T3."ReturnType",
T3."TDSType" FROM OCRD T0 INNER JOIN CRD4 T1 ON T0."CardCode" = T1."CardCode" INNER
JOIN CRD7 T2 ON T0."CardCode" = T2."CardCode" LEFT OUTER JOIN OWHT T3 ON T0."WTCODE" =
T3."WTCODE" WHERE T0."CardType"='S'
```

g) Purchasing Organization Data

```
SELECT T0."CardCode", T0."SlpCode", T0."Cellular", T1."GroupNum", T0."Currency" FROM OCRD T0  
INNER JOIN OCTG T1 ON T0."GroupNum" = T1."GroupNum" WHERE T0."CardType"='S'
```

h) Bank Data

```
SELECT T0."CardCode", T1."Country", T1."BankKey", T1."AbsEntry", T1."BankCode", T1."ControlKey",  
T1."Account", T1."AcctName", T1."IBAN" FROM OCRD T0 INNER JOIN OCRB T1 ON T0."CardCode" =  
T1."CardCode" WHERE T0."CardType"='S'
```

i) Industries Data

```
SELECT T0."CardCode", T0."Industry", T0."IndustryC" "IndustryCode", T0."InstrucKey", T1."IndName",  
T1."IndDesc" FROM OCRD T0 INNER JOIN OOND T1 ON T0."IndustryC" = T1."IndCode" WHERE  
T0."CardType"='S'
```

j) Tax Classification Data

```
SELECT T0."CardCode", T0."Country", T0."VatGroup", T0."ECVatGroup", T0."VatIDNum", T1."TaxCode"  
FROM OCRD T0 INNER JOIN CRD1 T1 ON T0."CardCode" = T1."CardCode" WHERE  
T0."CardType"='S'
```

k) Tax Numbers Data

```
SELECT T0."CardCode", T0."TaxIdIdent", T0."LicTradNum", T0."VatIDNum", T0."Country", T0."VatGroup",  
T0."VatStatus", T2."Code", T2."Name", T2."Rate", T2."Category", T2."EffecDate", T2."TaxType",  
T2."TaxCtgr" FROM OCRD T0 INNER JOIN OCTG T1 ON T0."GroupNum" = T1."GroupNum" LEFT  
JOIN OVTG T2 ON T0."ECVatGroup" = T2."Code" WHERE T0."CardType"='S'
```

l) Contact Person Data

```
SSELECT T0."CardCode", T0."Title", T0."Profession", T0."Position", T0."FirstName", T0."LastName",  
T0."MiddleName", T0."Name", T0."BirthDate", T0."BirthCity", T0."Cellolar", T0."Fax", T0."E_MailL",  
T0."Address", T0."CnAddrType", T0."CnnectAddr", T0."ResidCity", T0."ResidState", T0."ResidCntry"  
FROM OCPR T0 LEFT OUTER JOIN OCRD T1 ON T0."CardCode" = T1."CardCode" WHERE  
T1."CardType"='S'
```

2. Export the result of each query in an excel file, thereby generating multiple excel files, that contains data of Suppliers in different views. Name each of the file as mentioned below. **Make sure that you do not use any other name.**

- a. General Data: *GeneralData.xlsx*
- b. Additional Addresses Data: *AdditionalAddresses.xlsx*
- c. Address Usages Data: *AddressUsages.xlsx*
- d. General Texts Data: *GeneralTexts.xlsx*
- e. Company Data: *CompanyData.xlsx*
- f. Withholding Tax Data: *WithholdingTaxData.xlsx*
- g. Purchasing Organization Data: *PurchasingOrganizationData.xlsx*
- h. Bank Data: *BankDetails.xlsx*
- i. Industries Data: *Industries.xlsx*
- j. Tax Classification Data: *TaxClassification.xlsx*
- k. Tax Numbers Data: *TaxNumbers.xlsx*
- l. Contact Person Data: *ContactPerson.xlsx*

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 of various files is required to be done as part of preparation of the data for iflow.

- Each output excel file should be in the form as shown below. DO NOT CHANGE the column names (highlighted in yellow). For example the General Data file(GeneralData.xlsx) should look like this:

#	BP Code	BP Type	Group	Co	Accounts	IBP Name	Foreign N	Contact P	First Name	Last Name	Gender	Title	Date of B	Place of B	Middle Na	Professor	Address	Tax ID 0	Address T	E.C
1	V10000	S	114	1610		Computer Import G	Dirk	Lohe			E									
2	V10000	S	114	1610		Computer Import G	Dirk	Lohe			E									
3	V10000	S	114	1610		Computer Import G	Bastian	Schnorbus			E									
4	V10000	S	114	1610		Computer Import G	Bastian	Schnorbus			E									
5	V1010	S	110	1610		Grosshandel Schmid	Markus	Tolksdorf			E									
6	V1010	S	110	1610		Grosshandel Schmid	Markus	Tolksdorf			E									
7	V1010	S	110	1610		Grosshandel Schmid	Stefan	Veit			E									
8	V1010	S	110	1610		Grosshandel Schmid	Stefan	Veit			E									
9	V20000	S	111	1610		Michael Krause Gmb	Sebastian	Winter			E									
10	V20000	S	111	1610		Michael Krause Gmb	Sebastian	Winter			E									
11	V20000	S	111	1610		Michael Krause Gmb	Karin	Zymella			E									
12	V20000	S	111	1610		Michael Krause Gmb	Karin	Zymella			E									
13	V21000	S	111	1610		Caliper Plastik GmbH	Viktor	Schmidt			E									
14	V21000	S	111	1610		Caliper Plastik GmbH	Viktor	Schmidt			E									
15	V22000	S	101	1610		Müller&Clausen Met	Ludwig	Otto			E									
16	V22000	S	101	1610		Müller&Clausen Met	Ludwig	Otto			E									
17	V23000	S	101	1610		Soft- und Hardware	Peter	Ottermann			E									
18	V23000	S	101	1610		Soft- und Hardware	Peter	Ottermann			E									
19	V30000	S	113	1611		Blockies Corporation	Karl	Fuerst			E									
20	V30000	S	113	1611		Blockies Corporation	Karl	Fuerst			E									
21	V30000	S	113	1611		Blockies Corporation	Tracy	Fujieda			E									
22	V30000	S	113	1611		Blockies Corporation	Tracy	Fujieda			E									
23	V30000	S	113	1611		Blockies Corporation	Tracy	Fujieda			E									

- Zip all the excel files to create one *.ZIP file and save it. This zip file is the payload for the iflow.

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.

- Download the iflow for Supplier for B1 (provided by SAP).
- Upload the iflow in your SAP Integration Suite system.
- Deploy the integration flow.
- 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](#).

- 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