Data Migration: Fixed Asset Master
SAP Business One to SAP S/4HANA Cloud Public Edition Guide

For SAP Cloud Integration

Version 1.0 | Oct 2025

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 'Fixed Asset Master' object in SAP Business One into the SAP S/4HANA Cloud Public Edition's migration template of object 'Fixed Asset'.

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 for 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 Fixed Asset Master 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 file that Fixed Asset 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 Fixed Asset 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 Fixed Asset Master data from SAP Business One system.

Extract the data from SAP Business One: Fixed Asset Master 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 Fixed Asset data is stored.

   a) General

```
SELECT  -- Key CAST(NULL AS NVARCHAR(10)) AS "Ext./Leg. Company Code", I."ItemCode"  AS "Ext./Leg. Asset Number", CAST(NULL AS NVARCHAR(4))  AS "Ext./Leg. Asset Subnumber", -- Master Key  I."AssetClass"  AS "Asset Class", -- General I."ItemName"  AS "Asset Description", I."FrgnName"  AS "Asset Description 2", I."AssetSerNo"  AS "Serial Number", CAST(NULL AS NVARCHAR(50)) AS "Inventory Number", ( SELECT MIN(TO_VARCHAR(H."DocDate", 'DD.MM.YYYY')) FROM "POR1" L JOIN "OPOR" H ON H."DocEntry" = L."DocEntry" WHERE L."ItemCode" = I."ItemCode"  ) AS "Asset Purchase Order Date", CAST(NULL AS NVARCHAR(1))  AS "Indicator for Historical Management", I."InvntryUom" AS "Base Unit of Measure",  -- Posting Information TO_VARCHAR(I."CapDate", 'DD.MM.YYYY') AS "Asset Capitalization Date", TO_VARCHAR(I."RetDate", 'DD.MM.YYYY') AS "Deactivation Date" FROM "OITM" I WHERE I."ItemType" = 'F' ORDER BY I."ItemCode";
```

   b) Origin

```
SELECT  -- Key CAST(NULL AS NVARCHAR(10)) AS "Ext./Leg. Company Code",  -- hardcode  I."ItemCode"  AS "Ext./Leg. Asset Number", CAST(NULL AS NVARCHAR(4))  AS "Ext./Leg. Asset Subnumber",  -- hardcode -- Origin ( SELECT MIN(X."CardCode")  FROM ( SELECT H."CardCode" FROM "PCH1" L  JOIN "OPCH" H ON H."DocEntry" = L."DocEntry" WHERE L."ItemCode" = I."ItemCode" AND H."DocDate" = ( SELECT MIN(TO_VARCHAR(H2."DocDate", 'DD.MM.YYYY')) FROM "PCH1" L2 JOIN "OPCH" H2 ON H2."DocEntry" = L2."DocEntry"  WHERE L2."ItemCode" = I."ItemCode"  ) ) X )  AS "Acct. Number of Suppl. (Other Key Word)",  T9."Name"  AS "Asset's Country/Region of Origin", M."FirmName"  AS "Manufacturer of Asset", TO_VARCHAR(I."AcqDate", 'DD.MM.YYYY')  AS "Orig. Acquis. Date of AuC/Transf. Asset",  ( SELECT YEAR(MIN(F."RefDate"))  FROM "FIX1" F  JOIN "OFIX" F0 ON F0."AbsEntry" = F."AbsEntry"  WHERE F."ItemCode" = I."ItemCode" AND F0."SrcObjType" = '1470000049' )  AS "Fiscal Year of Original Acquisition",  ( SELECT MIN(Fa."APC") FROM "FIX1" Fa  JOIN "OFIX" F0a ON F0a."AbsEntry" = Fa."AbsEntry" WHERE Fa."ItemCode" = I."ItemCode"  AND F0a."SrcObjType" = '1470000049'  AND Fa."RefDate" = ( SELECT MIN(TO_VARCHAR(Fb."RefDate", 'DD.MM.YYYY')) FROM "FIX1" Fb  JOIN "OFIX" F0b ON F0b."AbsEntry" = Fb."AbsEntry" WHERE Fb."ItemCode" = I."ItemCode" AND F0b."SrcObjType" = '1470000049' ) )  AS "Original Acquisition Value",  ( SELECT MIN(Fa."APC")  FROM "FIX1" Fa  JOIN "OFIX" F0a ON F0a."AbsEntry" = Fa."AbsEntry" WHERE Fa."ItemCode" = I."ItemCode" AND F0a."SrcObjType" = '1470000049' AND Fa."RefDate" = ( SELECT MIN(TO_VARCHAR(Fb."RefDate", 'DD.MM.YYYY'))  FROM "FIX1" Fb JOIN "OFIX" F0b ON F0b."AbsEntry" = Fb."AbsEntry"  WHERE Fb."ItemCode" = I."ItemCode" AND F0b."SrcObjType" = '1470000049'  ) )  AS "Original Acquisition Value Currency", CAST(NULL AS DECIMAL(9,3))  AS "In-House Production Percentage", A."Descr"  AS "Asset Type Name",  C."BPLId"  AS "Company ID of Trading Partner", CAST(NULL AS NVARCHAR(1))  AS "Indicator: Asset Acquired Used", P."Project"  AS "WBS Element of Invest. Project (Ext. ID)", CAST(NULL AS NVARCHAR(80))  AS "Investment Order" FROM "OITM" I LEFT JOIN "ITM10" T  ON T."ItemCode" = I."ItemCode" LEFT JOIN "OCRY"  T9 ON T9."Code"  = T."ISOriCntry" LEFT JOIN "OMRC"  M  ON M."FirmCode" = I."FirmCode" LEFT JOIN "OACS"  C  ON C."Code"  = I."AssetClass" LEFT JOIN "ITM5"  P  ON P."ItemCode" = I."ItemCode" LEFT JOIN "OAGS"  A  ON A."Code"  = I."AssetGroup" WHERE I."ItemType" = 'F' ORDER BY I."ItemCode";
```

   c) Inventory

```
SELECT  -- Key CAST(NULL AS NVARCHAR(10)) AS "Ext./Leg. Company
Code",  I."ItemCode"          AS "Ext./Leg. Asset Number", CAST(NULL AS NVARCHAR(4))  AS
"Ext./Leg. Asset Subnumber",  -- Inventory CAST(NULL AS DATE)       AS "Last Inventory
On", CAST(NULL AS NVARCHAR(15)) AS "Inventory Note", CAST(NULL AS NVARCHAR(1))  AS
"Indicator: Asset Is Inventory-Relevant" FROM "OITM" I WHERE I."ItemType" = 'F' ORDER BY
I."ItemCode";
```

d) Allocations

```
SELECT  -- Key  CAST(NULL AS NVARCHAR(10)) AS "Ext./Leg. Company Code", I."ItemCode" AS
"Ext./Leg. Asset Number", CAST(NULL AS NVARCHAR(4))  AS "Ext./Leg. Asset Subnumber", --
Allocations CAST(NULL AS NVARCHAR(80)) AS "Investment Reason", CAST(NULL AS
NVARCHAR(80)) AS "Reason for Environmental Investment" FROM "OITM" I WHERE I."ItemType" =
'F' ORDER BY I."ItemCode";
```

e) Account Assignment

```
SELECT  -- Key CAST(NULL AS NVARCHAR(10)) AS "Ext./Leg. Company Code",  I."ItemCode" AS
"Ext./Leg. Asset Number", CAST(NULL AS NVARCHAR(4))  AS "Ext./Leg. Asset Subnumber",  --
Account Assignment (mandatory) CC."OcrCode" AS "Cost Center", CAST(NULL AS NVARCHAR(20))
AS "Fund (Only for Public Sector)", CAST(NULL AS NVARCHAR(20)) AS "Grant (Only for Public
Sector)", CAST(NULL AS NVARCHAR(30)) AS "Functional Area", P."Project" AS "WBS
Element", CAST(NULL AS NVARCHAR(15)) AS "Tax Jurisdiction", CAST(NULL AS NVARCHAR(80)) AS
"Segment for Segmental Reporting", CC."OcrCode" AS "Profit Center", CAST(NULL AS
NVARCHAR(8))  AS "Room", CAST(NULL AS NVARCHAR(80)) AS "Plant", L."Location" AS "Asset
Location", CAST(NULL AS NVARCHAR(15)) AS "License Plate No. of Vehicle", CAST(NULL AS
NVARCHAR(80)) AS "Business Place" FROM "OITM" I LEFT JOIN "ITM6" CC ON CC."ItemCode" =
I."ItemCode"    -- OcrCode..OcrCode5 (dimensions) LEFT JOIN "ITM5" P  ON P."ItemCode"  =
I."ItemCode"    -- Project LEFT JOIN "OLCT" L  ON L."Code"    = I."Location"    -- Location
master WHERE I."ItemType" = 'F' ORDER BY I."ItemCode";
```

f) Ledger

```
SELECT  -- Key  CAST(NULL AS NVARCHAR(10)) AS "Ext./Leg. Company Code",  I."ItemCode"  AS
"Ext./Leg. Asset Number", CAST(NULL AS NVARCHAR(4))  AS "Ext./Leg. Asset Subnumber",  --
Ledger  CAST(NULL AS NVARCHAR(2))  AS "Ledger in General Ledger Accounting",  CASE WHEN
I."AsstStatus" = 'I' THEN 'X' ELSE '' END AS "Indicator: Deactivation",  I."CapDate"  AS "Asset
Capitalization Date",  I."RetDate"  AS "Deactivation Date" FROM "OITM" I WHERE I."ItemType" =
'F' ORDER BY I."ItemCode";
```

g) Valuation

```
SELECT   -- Key  CAST(NULL AS NVARCHAR(10)) AS "Ext./Leg. Company
Code",  I."ItemCode"          AS "Ext./Leg. Asset Number", CAST(NULL AS NVARCHAR(4))  AS
"Ext./Leg. Asset Subnumber",  /* Real Depreciation Area = description of main area (scalar)
*/ (SELECT MIN(D."Descr") FROM "ODPA" D WHERE D."MainArea" = 'Y')  AS "Real Depreciation
Area",  -- Valuation CASE WHEN I."AsstStatus" = 'I' THEN '' ELSE 'X' END  AS "Indicator:
Deactivation", CAST(NULL AS NVARCHAR(1))  AS "Indicator: Negative Values
Allowed", TO_VARCHAR(K."DprStart", 'DD.MM.YYYY')AS "Depreciation Calculation Start
Date", TO_VARCHAR(K."DprStart", 'DD.MM.YYYY')AS "Start Date for Special
Depreciation", CAST(NULL AS DATE)       AS "Start Date for Interest Calc.", CAST(NULL AS
DATE)       AS "Asset Acc.: Date of Operating Readiness",  CAST(NULL AS INT)       AS "Changeover
Year of Depreciation Key", CAST(NULL AS INT)       AS "Changeover Period of Depreciation
Key", CAST(NULL AS NVARCHAR(80)) AS "Index Series for Replacement Values", CAST(NULL AS
NVARCHAR(80)) AS "Index Series for Replacemt. Values by Age", CAST(NULL AS INT)       AS "Exp.
Useful Life in Yrs at Start of FY", CAST(NULL AS INT)       AS "Exp. Useful Life in Prds at Start of
FY", CAST(NULL AS INT)       AS "Yrs Exp. from Start of Spec. Depr.", CAST(NULL AS INT)       AS
"Prds Exp. During Act. FY"  FROM "OITM" I INNER JOIN "ITM7" K ON I."ItemCode" =
K."ItemCode" WHERE I."ItemType" = 'F' ORDER BY I."ItemCode";
```

h) Time-Based Valuation

```
SELECT  -- Key CAST(NULL AS NVARCHAR(10)) AS "Ext./Leg. Company Code",  I."ItemCode" AS "Ext./Leg. Asset Number", CAST(NULL AS NVARCHAR(4))  AS "Ext./Leg. Asset Subnumber", D."Descr"  AS "Real Depreciation Area",  -- Time-Based Valuation  T."DprMeth"  AS "Depreciation Key",  /* Years = floor(total_months / 12) */ CAST(FLOOR(CAST(IFNULL(K."UsefulLife", 0) AS DECIMAL(10,2)) / 12.0) AS INTEGER) AS "Planned Useful Life in Years", /* Months = total_months MOD 12 */ CAST(MOD(IFNULL(K."UsefulLife", 0), 12) AS INTEGER)  AS "Planned Useful Life in Periods", CAST(NULL AS DECIMAL(7,4))  AS "Variable Depreciation Portion", CAST(NULL AS DECIMAL(16,13))  AS "Base Value Percentage", CAST(NULL AS DECIMAL(3,2))  AS "Mult.-Shift Factor for Mult. Shift Oper.", CAST(NULL AS NVARCHAR(1))  AS "Indicator: Asset Shutdown", CAST(NULL AS NVARCHAR(80))  AS "Usage Object", CAST(NULL AS NVARCHAR(10))  AS "Asset Revaluation Index Object", T."DprTo"  AS "Scrap Value in Company Code Currency", CAST(NULL AS DECIMAL(23,2))  AS "Scrap Value in Global Currency", CAST(NULL AS DECIMAL(23,2))  AS "Scrap Value in Freely Defined Currency 1", T."SalvPerc" AS "Scrap Value as Percentage of APC" FROM "OITM" I INNER JOIN "ITM7" K ON I."ItemCode" = K."ItemCode" JOIN "ODTP" T  ON T."Code"  = K."DprType" JOIN "ODPA" D  ON D."Code"  = K."DprArea" WHERE I."ItemType" = 'F' AND D."MainArea" = 'Y' ORDER BY I."ItemCode";
```

i) Local – Time-Independent

```
SELECT  -- Key CAST(NULL AS NVARCHAR(10)) AS "Ext./Leg. Company Code", I."ItemCode"  AS "Ext./Leg. Asset Number", CAST(NULL AS NVARCHAR(4))  AS "Ext./Leg. Asset Subnumber",  -- CIS - Time-Indep. General Data  I."AssetSerNo" AS "Serial Number",  I."ItemCode"  AS "Material Number",  ( SELECT MIN(T1."ItemCode") FROM "FIX1" T1  JOIN "OFIX" T0 ON T0."AbsEntry" = T1."AbsEntry"  AND T0."SrcObjType" = '1470000090' WHERE T1."RecvAsst" = I."ItemCode" )  AS "Number of Retired Asset",  CAST(NULL AS NVARCHAR(4))  AS "Subnumber of Retired Asset",  -- CIS - Time-Indep. Traceability CAST(NULL AS DATE)  AS "Start Date of Traceability", CAST(NULL AS DATE)  AS "End Date of Traceability",  CAST(NULL AS NVARCHAR(17)) AS "Forgn. Trade Gds Class. Cd. of Cust. Un.",  -- CIS - Time-Indep. Transport Tax CAST(NULL AS NVARCHAR(5))  AS "Transport Type", CAST(NULL AS NVARCHAR(30)) AS "Manufact. Veh. Ident. No. for Fleet Obj.", CAST(NULL AS DATE)  AS "Manufacturing Date",  CAST(NULL AS NVARCHAR(80)) AS "Ecological Class", -- CIS - Time-Indep. Property Tax CAST(NULL AS NVARCHAR(80)) AS "Do Not Use - Not Yet Available",  CAST(NULL AS DATE)  AS "Regist. Date of Prop. Ownership Rights", CAST(NULL AS DATE) AS "Terminat. Date of Prop. Ownersh. Rights", -- JP - Time-Indep. Data for Annex 16-4 Report CAST(NULL AS NVARCHAR(80)) AS "Asset Structure", CAST(NULL AS NVARCHAR(80)) AS "Asset Item", CAST(NULL AS DATE)  AS "Regist Agmt Date of Annex16-4 Report",  -- JP - Time-Indep. Data for Property Tax CAST(NULL AS NVARCHAR(80)) AS "City Code of Japan Property Tax Report", CAST(NULL AS NVARCHAR(80)) AS "Classification Key of Japan Property",  CAST(NULL AS NVARCHAR(80)) AS "Spec./Dept. Code of JP Prop. Tax",  -- NO - Time-Indep. General Data  CAST(NULL AS NVARCHAR(80)) AS "Block Key", CAST(NULL AS NVARCHAR(80)) AS "Depreciation Code", CAST(NULL AS NVARCHAR(80)) AS "Addit/Oper Depreciation Block Key", CAST(NULL AS NVARCHAR(80)) AS "Black List Data", CAST(NULL AS NVARCHAR(80)) AS "Indicator: R & D Asset",  -- PT - Time-Indep. Data for Fiscal Maps CAST(NULL AS NVARCHAR(80)) AS "Vehicle Type", CAST(NULL AS NVARCHAR(80)) AS "Indicator for Vehicle Without Limit", CAST(NULL AS NVARCHAR(80)) AS "Asset Link",  CAST(NULL AS NVARCHAR(80)) AS "Last Asset Link", CAST(NULL AS NVARCHAR(80)) AS "Related Report Form Category",  CAST(NULL AS NVARCHAR(80)) AS "Related Report Form", CAST(NULL AS NVARCHAR(80)) AS "Indicator: Is Amortized Asset", -- RS - Time-Indep. General Data for Tax CAST(NULL AS NVARCHAR(80)) AS "National Classification Code", TO_VARCHAR(I."LastPurDat", 'DD.MM.YYYY')AS "Last Purchase Date", CAST(NULL AS NVARCHAR(80)) AS "Tax Depreciation Group", CAST(NULL AS NVARCHAR(80)) AS "Tax Depreciation Code" FROM "OITM" I WHERE I."ItemType" = 'F' ORDER BY I."ItemCode";
```

j) Local – Time-Dependent

```
SELECT -- Key CAST(NULL AS NVARCHAR(10)) AS "Ext./Leg. Company Code",  I."ItemCode"  AS "Ext./Leg. Asset Number", CAST(NULL AS NVARCHAR(4))  AS "Ext./Leg. Asset Subnumber",  -- Local - Time-Dependent: Time Dep Data CAST(NULL AS DATE)  AS "(OBSOLETE) Date for Beginning of Valid.", CAST(NULL AS NVARCHAR(10))  AS "CIS: New OKOF Code", CAST(NULL AS NVARCHAR(30))  AS "CIS: Depreciation Group", CAST(NULL AS NVARCHAR(30))  AS "Tax Office Code", CAST(NULL AS NVARCHAR(1))  AS "Indicator: SZPK Applies", CAST(NULL AS NVARCHAR(30))  AS "Property Type", CAST(NULL AS NVARCHAR(20))  AS "OKTMO Code (Property)", CAST(NULL AS NVARCHAR(30))  AS "Special Property Tax Category",  CAST(NULL AS NVARCHAR(30))  AS "Tax Reduction Code",  CAST(NULL AS NVARCHAR(30))  AS "Tax Amount Reduction Code", CAST(NULL AS NVARCHAR(30))  AS "Tax Exemption Code",  CAST(NULL AS NVARCHAR(40))  AS "Property Number", CAST(NULL AS NVARCHAR(20))  AS "Property Number Type", CAST(NULL AS DECIMAL(18,2)) AS "Property Cadastral Value", CAST(NULL AS DECIMAL(9,4))  AS "Share in Common Property", CAST(NULL AS DECIMAL(18,2)) AS "Room Area", CAST(NULL AS DECIMAL(18,2)) AS "Area",  CAST(NULL AS NVARCHAR(1))  AS "Property Is Real Estate", CAST(NULL AS DECIMAL(18,3)) AS "Power Unit",  CAST(NULL AS NVARCHAR(10))  AS "Tax Base Unit", CAST(NULL AS NVARCHAR(30))  AS "Transport Tax Exemption Code", CAST(NULL AS NVARCHAR(30))  AS "Transport Tax Reduction Code", CAST(NULL AS DATE)  AS "Date Stolen", CAST(NULL AS DATE)  AS "Return Date", CAST(NULL AS DATE)  AS "Registration Date", CAST(NULL AS DATE)  AS "Cancellation Date",  CAST(NULL AS NVARCHAR(20))  AS "OKTMO Code (Transport)", CAST(NULL AS NVARCHAR(15))  AS "License Plate Number", CAST(NULL AS NVARCHAR(30))  AS "Transport Tax Amount Reduction Code", CAST(NULL AS NVARCHAR(30))  AS "Vehicle Price Category for Transport Tax", CAST(NULL AS DECIMAL(9,4))  AS "Share in Right to Ownership of Transport", -- CN - Time-Dep. Data CAST(NULL AS NVARCHAR(30))  AS "CADE Fixed Asset Usage Type" FROM "OITM" I WHERE I."ItemType" = 'F' ORDER BY I."ItemCode";
```

k) Local - Time-Dependent f.Validtn

```
SELECT  -- Key CAST(NULL AS NVARCHAR(10)) AS "Ext./Leg. Company Code",  I."ItemCode"  AS "Ext./Leg. Asset Number", CAST(NULL AS NVARCHAR(4))  AS "Ext./Leg. Asset Subnumber",  -- Local – Time-Dependent: Validtn  K."DprArea"  AS "Depreciation Area Real or Derived",  -- Time-Dep Data CAST(NULL AS DATE)  AS "(OBSOLETE) Date for Beginning of Valid.",  -- JP – Time Dep. Data for Val. CAST(NULL AS DATE)  AS "JP Impairment Posting Date", CAST(NULL AS DECIMAL(23,2)) AS "JP APC Amt at Imp in Co. Code Ccy", CAST(NULL AS DECIMAL(23,2)) AS "JP APC Amt at Imp in Global Ccy", CAST(NULL AS DECIMAL(23,2)) AS "JP APC Amt at Imp in Free Def Ccy 1", CAST(NULL AS DECIMAL(23,2)) AS "JP Book Val After Imp in Co. Code Ccy",  CAST(NULL AS DECIMAL(23,2)) AS "JP Book Val After Imp in Global Ccy", CAST(NULL AS DECIMAL(23,2)) AS "JP Book Val After Imp in Free Def Ccy 1",  -- SK – Time Dep. Data for Val. CAST(NULL AS INT)  AS "SK Capital Improvement Year" FROM "OITM" I JOIN "ITM7" K ON K."ItemCode" = I."ItemCode" WHERE I."ItemType" = 'F' ORDER BY I."ItemCode", K."DprArea";
```

2. Export the result of each query in an excel file, thereby generating multiple excel files, that contains data of Fixed Asset Master in different views. Name each of the file as mentioned below. **Make sure that you do not use any other name**.
    a. General: General.*xlsx*
    b. Origin: Origin.*xlsx*
    c. *Inventory: Inventory.xlsx*
    d. Allocations: Allocations.*xlsx*
    e. Account Assignment: Account Assignment.*xlsx*
    f. Ledger: Ledger.*xlsx*
    g. *Valuation: Valuation.xlsx*
    h. Time Based Valuation: *Time Based Valuation.xlsx*

i. Local – Time-Independent : *Local – Time-Independent.xlsx*
j. Local – Time-Dependent: *Local – Time-Dependent.xlsx*
k. Local - Time-Dependent f.Validtn: *Local - Time-Dependent f.Validtn .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.

1. 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 file(General.*xlsx*) should look like this:

#	Ext./Leg. Company Code	Ext./Leg. Asset Number	Ext./Leg. Asset Subnumber	Asset Class	Asset Description	Asset Description 2	Serial Number	Inventory Number	Asset Purchase Order Date	Indicato
1		ZZ1521		AC103	D7 - Soil Building					
2		ZZ1520		AC103	Parking Lot Expansion (180 Henry Street)					
3		ZZ1519		AC106	Omega - EACH BOOST,XE,120W,FULL,SPECTRUM WHITE 451 Model TBAR-120W-FS2 QTY 512		Model TBAR-120W-FS2			
4		ZZ1518		AC106	Black Label Gavita RS 1900e LED 208-480 Volt (1/CS) (8/PL) SKU HGC906410 QTY 256		SKU HGC906410			
5		ZZ1517		AC106	Black Label Gavita RS 1900e LED 208-480 Volt (1/CS) (8/PL) SKU HGC906410 QTY 576		SKU HGC906410			
6		ZZ1516		AC107	GP-4000 Printer (imagePROGRAF)		ID#46189 AND ID#546205			
7		ZZ1515		AC107	Power Edge R750xs	Dell Marketing				
8		ZZ1514		AC107	8 - 32102933 - OptiPlex 7020 MFF+ vPro Core i5-14500 2.6GHz / 16GB / 512GB SSD / UHD770 /ax / BT / 180W / W11P	PC Connection				
9		ZZ1513		AC107	Displays and set up equipment	Ubiquiti				
10		ZZ1512		AC107	64 - CAM-VIV-VSS-PRO, Camera License for VSS Professional Edition					
11		ZZ1511		AC107	19 - CAM-VIV-IB9367-EHT-V2-2.7-13, 2MP 60fps, H.265, 2.7~13.5mm, 50M IR, SNV,WDR Pro, -40°C ~ 60°C	All Comm				
12		ZZ1510		AC107	40 - CAM-VIV-FD9367-EHTV-V2, 2MP 50M IR Outdoor WDR Pro Remote Focus Dome, IoTSecurity	All Comm Data				
13		ZZ1509		AC103	Woodward Ave Improvments					
14		ZZ1508		AC105	Time Clock	Paragon				
15		ZZ1507		AC106	Front Building Sign 78"wide x 32" tall x 5"deep	RPM Signs				
16		ZZ1506		AC106	Side Building Sign 144"WX60" Tx1"Deep	RPM Sign				
17		ZZ1505		AC106	Compliance Signs					
18		ZZ1504		AC107	Power Edge R750xs		CHPZT64			
19		ZZ1503		AC105	Smart Safe - American Security Products					
20		ZZ1502		AC108	2017 Infiniti QX50					
21		ZZ1501		AC105	American Security Products - Safe LH Dispensary					
22		ZZ1500		AC106	Lewisburg Building and Road Sign					
23		ZZ1499		AC108	2015 Ford Transit Cargo Van					
24		ZZ1498		AC105	Omega Equipment - Quest dehumidifier, 205, 120 volt					
25		ZZ1497		AC105	Omega Equipment - Quest dehumidifier, 205, 120 volt					
26		ZZ1496		AC105	NB Oler CRV Pro 8 XPRF Explosion Proof VacuumPump					
27		ZZ1495		AC105	Time Clocks					
28		ZZ1494		AC107	Power Edge R750					
29		ZZ1493		AC107	Power Edge R750					
30		ZZ1492		AC107	Additional register and all components for Lewisburg					
31		ZZ1491		AC107	24 CAM-VIV-FD9367-EHTV-V2, 16 CAM-VIV-IB9367-EHT-V2-2.7-13 .45 Camera Licenses					
32		ZZ1490		AC107	Switch , patch panel, blank 24 inserts-Network					
33		ZZ1489		AC107	Network Items, Monitors , Printers, Lap tops					
34		ZZ1488		AC104	Leasehold Improvements - Lewisburg					
35		ZZ1487		AC106	Office Furniture (desks, chairs, ...)					
36		ZZ1486		AC106	New signs					

2. 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.

I. Download the iflow for Fixed Asset 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

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Support Ticket Component:
CA-S4H-B1-IFLOW