

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

Integration Guide

SAP S/4HANA Integration with SAP Build Process Automation for Finance General Ledger

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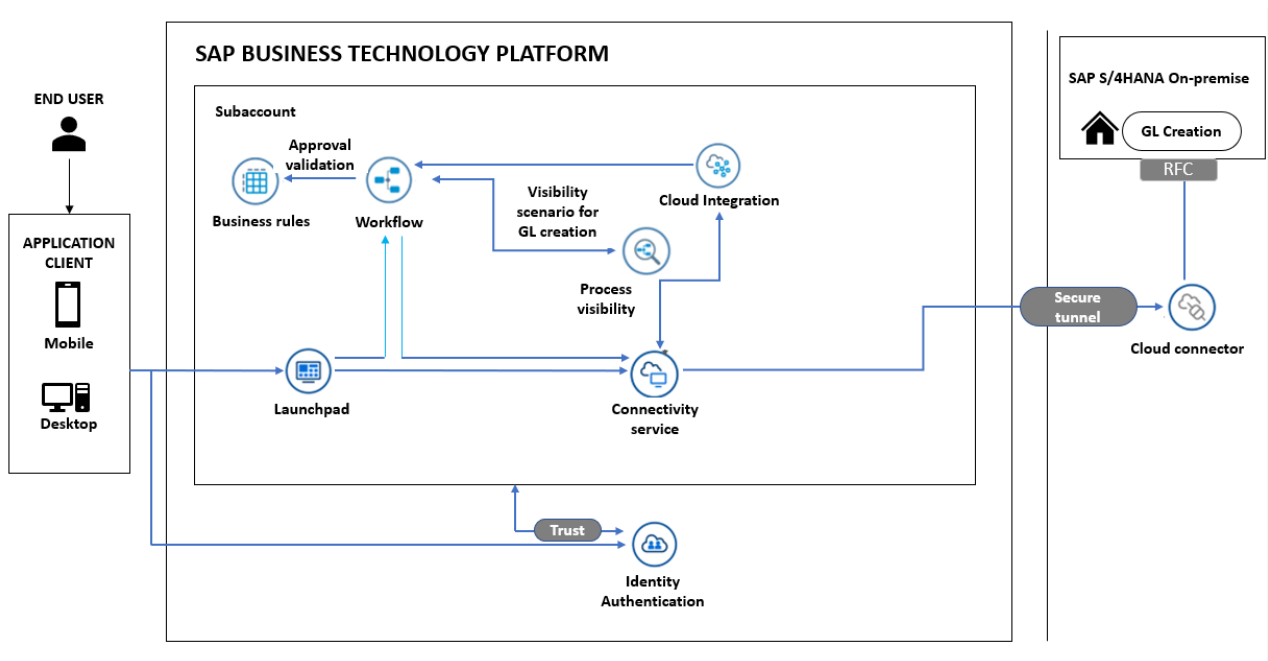
Overview

This document provides information about integration to consume the integration package SAP S/4HANA Integration with SAP Build Process Automation for Finance General Ledger. The main audience of this document are technical IT/system administrators.

The general ledger accounts are used by the businesses to record all day to day transactions. These transactions, recorded throughout a certain period are then used later to create the financial statements like the balance sheet, profit and loss statement and the cash flow statement. This same data can also be used to create reports for internal reporting and auditing purposes. The same data can be provided to modules like business intelligence to carry out advance analysis.

The document tells what needs to be done to make the solution run. It mainly focusses on technical configuration like destinations for example. It also focusses on business configuration that can be done by a key user or Business Process Expert, like how to configure a variant, a decision or visibility scenario. The Live Process Content package enables customers to accelerate the digitalization of their General Ledger Creation in a transparent way and provide flexibility to meet business requirements. It includes Processes, Decisions and Visibility content enabling customers to flexibly configure process variants in a low code no code approach.

Disclaimer: Please note that this content package is a template to facilitate custom build extensions. A full-fledged master data management solution, with data quality management and governance capabilities is available on SAP Business Technology Platform, please see [SAP Master Data Governance](#).



Required SAP Business Technology Platform Services

The live process content package General Ledger Master Record Creation Process is intended to be used for SAP S/4HANA and requires the following services in SAP Business Technology Platform. SAP Business Technology Platform.

- SAP Build Process Automation or SAP Workflow Management to orchestrate the process.
- Cloud Integration capability within SAP Integration Suite
- SAP Connectivity service (cloud connector) to establish access to SAP S/4HANA on-premise.
- SAP Cloud Portal service or SAP Launchpad service to access the apps that are involved in the process.
- SAP Cloud Identity Services - Identity Authentication (optional).
- SAP Business Application Studio to modify/deploy the SAPUI5 applications.
- SAP BTP, Cloud Foundry runtime.

Setup and Configuration

This section will explain how to setup the integration content that is required for the live process content packages General Ledger Master Record Creation Process.

Configure SAP S/4HANA Destination

Configure a HTTP destination to connect with SAP S/4HANA on-premise or SAP S/4HANA Cloud, refer to documentation [here](#) for the same. The below is a destination configuration for for SAP S/4HANA on-premise .

Name	S4HANA_RFC { OR any name, but make sure that the destination in integration models is configured with this name}
Type	RFC
Proxy Type	OnPremise
Description	S4E
User	<TECHNICAL_USER>
Password	<PASSWORD>
Authentication	BasicAuthentication
Additional Properties	Name: jco.client.ashost Value: <abapServerHost> Name: jco.client.client Value: <client id> Name: jco.client.sysnr Value: <systemNumber>

Configure Cloud Connector

For SAP S/4HANA on-premise landscape, configure cloud connector to enable secure tunnel to SAP BTP tenant for RFC calls. Please refer the help documentation to [configure Cloud Connector](#). Expose the Following BAPI/RFC in the SAP Cloud Connector:

- GL_ACCT_MASTER_SAVE_RFC
- ZGL_ACCT_MASTER_SAVE_RFC
- RFC_READ_TABLE – This RFC is used in the integration flow to fetch F4 values for UI fields- Field Status Group, INFLATIONKEY, Planning Level etc.

Services that need to be exposed from SAP S/4HANA (on-premise) using Cloud Connector

CDS View	External API Service	Technical Service Name	Odata Service	Protocol	Backend type
I_Companycode	ZZ1_COMPANYCODE_CDS	ZZ1_COMPANYCODE_CDS	/sap/opu/odata/sap/ZZ1_COMPANYCODE_CDS/	HTTPS	ABAP System
I_Customer	ZZ1_CUSTOMER_CDS	ZZ1_CUSTOMER_CDS	/sap/opu/odata/sap/ZZ1_CUSTOMER_CDS/	HTTPS	ABAP System
I_chartofAccounts	ZZ1_CHARTOFACCOUNTS_CDS	ZZ1_CHARTOFACCOUNTS_CDS	/sap/opu/odata/sap/ZZ1_CHARTOFACCOUNTS_CDS/	HTTPS	ABAP System
I_FunctionalArea	ZZ1_FUNCTIONALAREA_CDS	ZZ1_FUNCTIONALAREA_CDS	/sap/opu/odata/sap/ZZ1_FUNCTIONALAREA_CDS/	HTTPS	ABAP System
I_GLAccountType	ZZ1_GLACCOUNTTYPE_CDS	ZZ1_GLACCOUNTTYPE_CDS	/sap/opu/odata/sap/ZZ1_GLACCOUNTTYPE_CDS	HTTPS	ABAP System
I_GLAccountGroup	ZZ1_GLACCOUNTGROUP_CDS	ZZ1_GLACCOUNTGROUP_CDS	/sap/opu/odata/sap/ZZ1_GLACCOUNTGROUP_CDS/	HTTPS	ABAP System
I_AccountingClerk	ZZ1_ACCOUNTINGCLERK_CDS	ZZ1_ACCOUNTINGCLERK_CDS	/sap/opu/odata/sap/ZZ1_ACCOUNTINGCLERK_CDS/	HTTPS	ABAP System
I_Currency	ZZ1_CURRENCY_CDS	ZZ1_CURRENCY_CDS	/sap/opu/odata/sap/ZZ1_CURRENCY_CDS/	HTTPS	ABAP System
I_HouseBankBasic	ZZ_HOUSEBANKBASIC_CDS	ZZ1_HOUSEBANKBASIC_CDS	/sap/opu/odata/sap/ZZ1_HOUSEBANKBASIC_CDS/	HTTPS	ABAP System
I_Taxcode	ZZ1_TAXCODE_CDS	ZZ1_TAXCODE_CDS	/sap/opu/odata/sap/ZZ1_TAXCODE_CDS/	HTTPS	ABAP System
I_GLAccountInCompanyCode	ZZ1_ALTACCOUNTNUM_CDS	ZZ1_ALTACCOUNTNUM_CDS	/sap/opu/odata/sap/ZZ1_ALTACCOUNTNUM_CDS/	HTTPS	ABAP System
V_T012K_MIG_DDL	ZZ1_HOUSEBANKBASIC_CDS	ZZ1_HOUSEBANKBASIC_CDS	/sap/opu/odata/sap/ZZ1_HOUSEBANKBASIC_CDS/	HTTPS	ABAP System
I_ACMUnitOfMeasurement	ZZ1_UNITOFMEASURE_CDS	ZZ1_UNITOFMEASURE_CDS	/sap/opu/odata/sap/ZZ1_UNITOFMEASURE_CDS/	HTTPS	ABAP System
Commitment	ZZ1_COMMITMENTID_CDS	ZZ1_COMMITMENTID_CDS	/sap/opu/odata/sap/ZZ1_COMMITMENTID_CDS/	HTTPS	ABAP System

Note: There are multiple custom function modules and services which needs to be exposed in the cloud connector. The names provided here are default/placeholders. Depending on the names given during the implementation, corresponding services shall be used in cloud connector.

Import, Configure and deploy Integration Content

To create the General Ledger Account in the SAP S/4HANA we need to call an RFC function module through Integration Flow. Also, for few of the F4 help on the UI5 side few Integration Flows are designed to export the values from the table.

The following integration models are available in this package.

1. Get Exchange Rate Details
2. Get Field Status Group Details
3. Get Field Status Variant Details
4. Get GL Related Details
5. Get GL Subtype Details
6. Get Sort Key Related Details
7. Get Tolerance Group Details
8. Get GL Account Number Range Details
9. Get Inflation Key Related Details
10. Get Interest Indicator Related Details
11. Get Language Related Details
12. Get PL Account Type Related Details
13. Get Planning Level Related Details

Import the content package to your SAP Cloud Integration tenant. To be able to import and deploy integration flows, you need the role AuthGroup.IntegrationDeveloper (in Neo environment) or PI_Integration_Developer (in cloud foundry environment) assigned in your tenant.

Import pre-packaged Integration content in SAP Integration Suite

- Access your SAP Integration Suite tenant management node (<https://<integrationtenant>/itspaces>).
- View all pre-packaged integration flow under Discover->Integration. (<https://<integrationtenant>/itspaces/shell/discover>)
- Search integration package **SAP S/4HANA Integration with SAP Build Process Automation for Finance General Ledger**
- Click on the package **SAP S/4HANA Integration with SAP Build Process Automation for Finance General Ledger**.
- Click Copy to import the Integration content package to your workspace
- Navigate to Design to open the imported content package.
- Open all Integration models, select Configure, set configured value as RFC Destination created in the section **Configure SAP S/4HANA Destination** of this document.

Configure "Get Exchange Rate Details"

Sender Receiver

Connection

Sender: SAP_Workflow_Management

Adapter Type: HTTPS

Authorization: User Role

User Role: ESBMessaging.send

CSRF Protected:

- Click Configure button, choose the appropriate sender and set their respective User Role credentials

Configure "Get Exchange Rate Details"

Sender Receiver

Connection

Receiver: SAP_S4HANA

Adapter Type: RFC

Destination: <RFC_Destination>

Send Confirm Transaction:

Create New Connection:

- Deploy the integration model.

Determine Reviewers from External Service

API Attributes	Values
Path	/http/comsapcontentdetermineGLReviewer
HTTP Method	POST
Payload sent by workflow (sample data)	<pre>{ "Vocabulary": [{ "GLData": { "Role": "Entity Accounts Head", "GLAccountType": "X", "CompanyCode": "0001" } }] }</pre>

	<pre> } }] } </pre>
Response Payload from integration flow	<pre> { "Result":[{ "ReviewerDetails": { "ReviewerMailID": "abc@email.com", "UnitOfTime": < "H" OR "m" OR "Y" OR "M" OR "D" >, "ReviewerUserID": <UserId>, "Duration": , "ReviewerUserGroup" : <User Group> } }] } </pre> <p>Note: When Status is not 200, then it is considered a failed service call.</p>
Payload Type	Application / JSON

Determine Approvers from External Service

API Attributes	Values
Path	/http/comsapcontentdetermineGLApprover
HTTP Method	POST
Payload sent by workflow (sample data)	<pre> { "Vocabulary": [{ </pre>

	<pre> "GLData": { "Role": "Finance Manager", "GLAccountType": "X", "CompanyCode": "0001" } }] } </pre>
Response Payload from integration flow	<pre> { "Result":[{ "ApproverDetails": { "ApproverMailID": "abc@email.com", "UnitOfTime": < "H" OR "m" OR "Y" OR "M" OR "D" >, "ApproverUserID": <User Id>, "Duration": , "ApproverUserGroup" : <User Group> } }] } </pre> <p>Note: When Status is not 200, then it is considered a failed service call.</p>
Payload Type	Application / JSON