

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

Setup Guide

Automatic Overtime Split with SAP Workflow Management or SAP Build Process Automation

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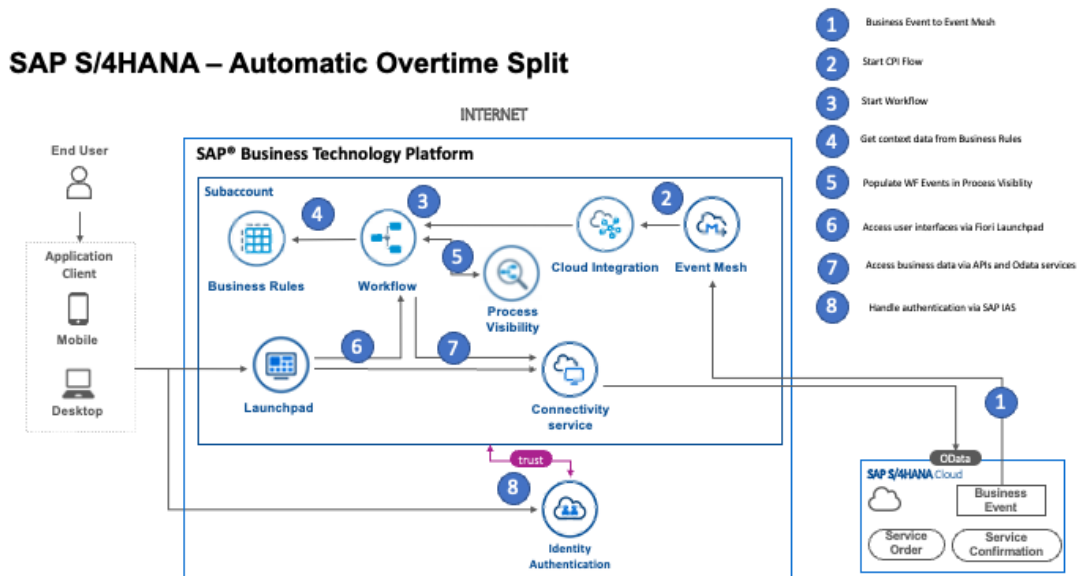
Overview

This document provides information about setting up the SAP Business Technology Platform account to consume the workflow content package **Automatic Overtime Split**. The main audience of this document are technical IT/system administrators.

This workflow scenario enables customers to define different rules for overtime calculation, automate the calculation itself and add an optional approval step to the process. The key advantage is that service employees do not have to do the calculation themselves, which reduces errors and mistakes and increases the quality of direct billing of service items.

Some key features of the workflow content package are:

- Receiving and reacting to different business events of the source system
- Collecting required business and context data from several sources
- Customizing workflow execution with business rules
- Integrating solution capabilities of SAP Workflow Management or SAP Build Process Automation
- Calculation of predefined overtime categories
- Approval Step
- Automatically update source documents in backend system



Required SAP BTP Services

The workflow content package **Automatic Overtime Split** is intended to be used for SAP S/4HANA and SAP S/4HANA Cloud and requires the following services in SAP Business Technology Platform.

- SAP Build Process Automation or SAP Workflow Management to orchestrate the process.
- SAP Integration Suite to push Sales Order lifecycle events on to Process Visibility Service.
- 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

The **Automatic Overtime Split** content package requires SAP Build Process Automation or SAP Workflow Management subscription or a CPEA contract. Based on which service you plan to use, follow the appropriate section to configure either SAP Build Process Automation or SAP Workflow Management.

Configure SAP Build Process Automation

Follow the setup and configuration section of SAP Build Process Automation:

1. [Subscribe to SAP Build Process Automation \(Standard Plan\)](#)
2. [Configure Destinations for Live Process Projects](#)
 - a. Import Package Destination
 - b. Business Rules Destination to support start and step conditions
3. [Optional] [Configure SAP Launchpad Service for SAP Build Process Automation](#)

Configure Process Automation Destination

A HTTP destination is required in the BTP subaccount where SAP Build Process Automation is subscribed. Create a destination with name "sap_process_automation_service" with the following configuration if it doesn't exist already. Please refer how to [create a HTTP destination](#) OAuth 2.0 Authentication (client credentials).

Name	sap_process_automation_service
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2ClientCredentias
URL	<"endpoints"."api">
Client ID	<"uaa":"clientis">
Client Secret	<"uaa":"clientsecret">
Token Service URL	<"uaa":"url"/>/oauth/token

Note: While creating the service instance for SAP Build Process Automation service, make sure that at least the required scopes are assigned (help documentation to enable technical authentication to [access the SAP Build Process Automation APIs](#)). If the scopes are not assigned, you can also [update the service instance](#) with the required scopes.

Configure OAuth2ClientCredentias SAP Build Process Automation Destination (Service Instance)

Ignore this step if there is already a destination using SAP Build Process Automation service instance created.

Create new destination to call SAP Build Process Automation APIs using a service route from SAP UI5

component. For more details, follow the help document:

<https://help.sap.com/viewer/cca91383641e40ffbe03bdc78f00f681/Cloud/en-US/685f383cebb54c009b2fac633b32c90f.html>.

Destination Configuration Blank Template Service Instance

Service Instance: * sap_processautomation

Name: * process_atuomation_service_destination

Description: Call SAP Process Automation APIs using a service route

Additional Properties New Property

Next Cancel

Destination Configuration

Name: * process_automation_service_destination

Type: HTTP

Description: Call SAP Process Automation APIs using a s...

URL: * https://sap.com/DUMMY_URL

Proxy Type: Internet

Authentication: OAuth2ClientCredentials

Use mTLS for token retrieval

Client ID: * sb-... I9...

Client Secret:

Token Service URL Type: * Dedicated Common

Token Service URL: * https://... ..

Token Service User:

Token Service Password:

Additional Properties

endpoints	{*api*:"https://...	🗑️
html5-apps-...	{*app_host_id*:"...	🗑️
saasregistry...	true	🗑️
sap.cloud.s...	com.sap.spa.process...	🗑️
sap.cloud.s...	spa	🗑️

Use default JDK truststore

Save Cancel

Configure SAP Workflow Management

Automatic Overtime Split content package requires SAP Workflow Management subscription or a CPEA contract. Follow the setup and configuration section of SAP Workflow Management.

<https://help.sap.com/viewer/6f55baaf330443bd8132d071581bbae6/Cloud/en-US/d7910e2bf7f64afc9d0eb21b0cc9e84d.html>

Note: While creating the service instance for Workflow service, make sure that at least the following scopes are assigned (help documentation to [enable technical authentication](#) to access the workflow APIs). If the scopes are not assigned, you can also [update the service instance](#) with the following scopes.

- WORKFLOW_INSTANCE_GET
- WORKFLOW_INSTANCE_START
- WORKFLOW_INSTANCE_CANCEL
- WORKFLOW_INSTANCES_UPDATE

- TASK_COMPLETE
- TASK_GET_CONTEXT
- TASK_UPDATE
- TASK_GET

Configure Workflow Email Destination

Configure workflow email destination to automatically send email notification to the involved parties. For more information on configuring the destination, see [configure workflow email destination](#).

Configure Workflow Destination

A HTTP destination is required in the BTP subaccount where SAP Workflow Management is subscribed. Create a destination with name “Workflow” with the following configuration, if it doesn’t exist already. Please refer how to [create a HTTP destination](#) OAuth 2.0 Authentication (client credentials).

Name	Workflow
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2ClientCredentials
URL	<rest_api_url>
Client ID	<client ID>
Client Secret	<client secret>
Token Service URL	<uaa.url>/oauth/token

Configure Business Rules Destination

A HTTP destination is required in the Cloud Foundry account where SAP Workflow Management is subscribed. Create a destination with name “BUSINESS_RULES” with the following configuration, if it doesn’t exist already. Please refer how to [create a HTTP destination](#) and [how to access business rules APIs](#) using OAuth 2.0 Authentication (client credentials)

Name	BUSINESS_RULES
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2ClientCredentials
URL	<rule_runtime_url>/rules-service
Client ID	<client ID>
Client Secret	<client secret>
Token Service URL	<uaa.url>/oauth/token

Configure OAuth2 Client Credentials Workflow Destination (Service Instance)

Similarly, create new Destination to call Workflow Service APIs using a Service route from SAP UI5 Component. For more details, follow the official help document:

<https://help.sap.com/viewer/cca91383641e40ffbe03bdc78f00f681/Cloud/en-US/685f383cebb54c009b2fac633b32c90f.html>

Configure Cloud Integration Destination

To call an integration flow, a HTTP destination is required in the SAP BTP tenant where the SAP Build Process Automation or SAP Workflow Management is subscribed. Create a destination called CPI with either Basic Authentication or OAuth2ClientCredentials.

Destination with Basic Authentication

Name	CPI
Type	HTTP
Proxy Type	Internet
Authentication	Basic Authentication
URL	<runtime.url>
Username	<user>
Password	<password>

Destination with OAuth2ClientCredentials Authentication

Name	CPI
Type	HTTP
Proxy Type	Internet
Authentication	OAuth2ClientCredentials
URL	<runtime.url>
Client Id	<client ID>
Client Secret	<client secret>
Token Service URL	<oauth.url.for.clientCredentials>

Additional Properties to Destination

Additionally, add the following properties in the destination for cloud integration.

WebIDEEEnabled	true
WebIDESystem	CPI
WebIDEUsage	odata_gen

Configure Communication Scenarios in SAP S/4HANA

Following Communication Scenarios are needed to be configured in SAP S/4HANA or SAP S/4HANA

Cloud to use the content package.

SAP_COM_0350 – Service Order (A2X)

SAP_COM_0352 – Service Confirmation (A2X)

SAP_COM_0560 – Responsibility Management Teams

Inbound Services consumed:

/sap/opu/odata/sap/API_SERVICE_ORDER_SRV

/sap/opu/odata/sap/API_SERVICE_CONFIRMATION_SRV

/sap/opu/odata4/sap/api_respymgmt_team_srv/srzd_a2x/sap/api_respym_team_srv/0001

Follow the documentation on how to [Create Communication Arrangement](#) for Communication scenarios.

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 Cloud.

Name	S4HANA
Type	HTTP
Proxy Type	Internet
User	<COMMUNICATION_USER>
Password	<COMMUNICATION_PASSWORD>
Authentication	BasicAuthentication
URL	<OData base URL of SAP S/4HANA cloud> <i>sample: https://{host}:{port}</i>
Additional Properties	sap-client: <client number>

Configure Cloud Connector

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

Configure SAP S/4HANA to push Service Order and Service Confirmation Events to SAP Event Mesh

[Configure SAP Event Mesh](#)

The following business events are required for the Sales Order packages:

1. /sap.s4.beh.serviceorder.v1.ServiceOrder.Changed.v1
2. /sap.s4.beh.serviceorder.v1.ServiceOrder.Created.v1
3. /sap.s4.beh.serviceconfirmation.v1.ServiceConfirmation.Changed.v1
4. /sap.s4.beh.serviceconfirmation.v1.ServiceConfirmation.Created.v1

Import, Configure and deploy Integration Content

This package utilizes Cloud Integration capability within SAP Integration Suite to provide integration between SAP ERP (or SAP S/4HANA) and SAP Build Process Automation or SAP Workflow Management. Further details can be found in dedicated integration guide of the integration package **“SAP Build Process Automation Integration with SAP S/4HANA for Automatic Overtime Split”**.