

SAP BUSINESS TECHNOLOGY PLATFORM | EXTERNAL

# Integration Guide

SAP S/4HANA Integration with SAP Build Process Automation  
to Cancel Customer Invoice

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# Overview

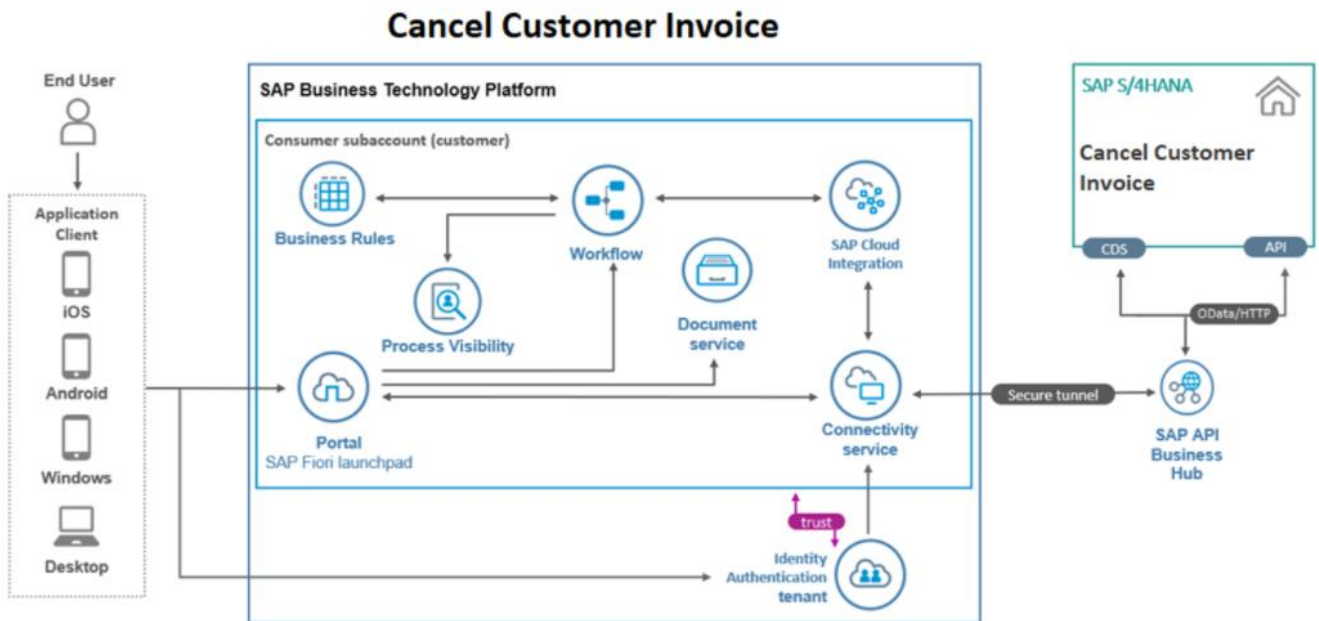
This package contains Integration Flows to cancel the Invoice Document in SAP S/4HANA and sends confirmation back to SAP Build Process Automation or SAP Workflow Management.

This package contains the below Integration flows

- **Cancel Customer Invoice** - This Integration flow cancels invoice document in SAP S/4HANA and sends confirmation back to SAP Build Process Automation or SAP Workflow Management.

## Scenario Definition

- Whenever user select cancel invoice workflow task in SAP Build Process Automation or Workflow Management, Cancellation request sends to SAP S/4HANA via cloud integration and posts the Cancellation document in SAP S/4HANA and sends cancellation document details to SAP Build Process Automation or SAP Workflow Management.
- This process extension will enable to Cancel Customer Invoice in SAP S/4HANA.



## Required SAP Business Technology Platform Services

The live process content package “**SAP S/4HANA Integration with SAP Build Process Automation to Cancel Customer Invoice**” is intended to be used for SAP S/4HANA (cloud) and requires the following services in SAP BTP:

- SAP Build Process Automation or SAP Workflow Management to orchestrate the process.
- SAP Integration Suite for data activities with Cancel Customer Invoice.
- SAP Launchpad service to access the apps that are involved in the process.
- SAP Business Application Studio to modify/deploy the SAPUI5 applications (optional).
- SAP BTP, Cloud Foundry runtime.

## Setup and Configuration

This section will explain how to setup the integration content that is required for the workflow content packages **SAP S/4HANA Integration with SAP Build Process Automation to Cancel Customer Invoice** .

### Configure SAP S/4HANA Communication User

Communication User is setup, which is required for the data flow between integration flow, workflow and SAP S/4HANA Cloud.

- In SAP S/4HANA cloud, Search for the section “Communication management” and select the tile “Maintain Communication users”.
- Click “New Button” and enter the below Information

Name	<User Name>
Description	<Enter desired description for the system/user>
Password	<Password>

### Configure SAP S/4HANA Communication system

Communication system is setup, which is required for the data flow between integration flow, workflow and SAP S/4HANA Cloud.

- In SAP S/4HANA cloud, Search for the section “Communication management” and select the tile “Maintain Communication users”.
- Click “New Button” and enter the below Information

New Communication system	
System ID	<System ID>
System Name	<System name>
<b>General</b>	
Host Name	<Host Name of System>
Logical System	<Enter Desired logical system name>

Port	443
<b>Users for Inbound Communication</b>	
User Name	<Select the user created in the previous step using '+' Icon>
Authentication Method	User Name and Password
<b>Users for Outbound Communication</b>	
Authentication Method	User Name and Password
User Name	<Mention the iFlow user to connect to cloud iFlow>
Password	<Enter Password of user of connect to Cloud iFlow>

## Configure SAP S/4HANA Communication Arrangement

Configure SAP S/4HANA communication arrangement that combines the system and user created in the above steps. Below is an arrangement configured in SAP S/4HANA cloud.

Note: This destination is required by Cloud Integration (Suite).

- In SAP S/4HANA cloud, Search for the section “Communication management” and select the tile “Maintain Communication users”.
- Click “New Button” and enter the below Information

<b>New Communication Arrangement</b>	
Scenario	SAP_COM_0120 – Billing Integration
Arrangement Name	SAP_COM_0120 <Automatically populates on selecting Scenario>
<b>Common data</b>	
Communication System	<Select communication system from previous step>
<b>Inbound Communication</b>	
User Name	< Automatically populates on selecting communication system >
Authentication Method	< Automatically populates on selecting communication system >
<b>Inbound Service</b>	
Service	<Inbound Services automatically populate>
<b>Outbound Communication</b>	
User Name	<Automatically populates on selecting communication system>
Authentication Method	<Automatically populates on selecting communication system>

## Import, configure and deploy cloud Integration content

The workflow content requires cloud integration to Cancel Customer Invoice in SAP S/4HANA. The integration content package **SAP S/4HANA Integration with SAP Build Process Automation to Cancel Customer Invoice** is available in SAP API Business hub to integrate SAP Build Process Automation or SAP Workflow Management with SAP S/4HANA.

### 1. Cancel Customer Invoice

Import the integration 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 content package “**SAP S/4HANA Integration with SAP Build Process Automation to Cancel Customer Invoice**”.
- Click on the package SAP S/4HANA Integration with SAP Build Process Automation to Cancel Customer Invoice.
- Click Copy to import the Integration content package to your workspace.

- Navigate to the Monitor view ([https://< integrationtenant >/itspaces/shell/monitoring](https://<integrationtenant>/itspaces/shell/monitoring)) to setup the security materials required for the package.
- Deploy the following credentials using the Security Material app.
- In Integration Suite, open Operations view, then click on Security Material to create and deploy security materials.
- S4HANA – (User Credentials) To call Invoice Cancel API in SAP S/4HANA. Make sure the user has the relevant communication scenarios as mentioned in section Configure Communication Scenarios in SAP S/4HANA.

The screenshot shows a web form titled "Edit User Credentials". It has the following fields and values:

- Name:** \* S4HANA
- Description:** (empty text box)
- Type:** \* User Credentials (dropdown menu)
- User:** \* (redacted with a black box)
- Password:** (empty text box)
- Repeat Password:** (empty text box)

At the bottom right of the form, there are two buttons: "Deploy" and "Cancel".

Note: The credential names can be different from what is mentioned above. Make sure that you configure the appropriate credential names in the integration flow's SOAP and HTTP adapter configurations.

## Cancel Customer Invoice

- Open the integration model Cancel Customer Invoice.
- Click Configure button, choose the appropriate Sender (SAP Build Process Automation or SAP Workflow Management) and receiver (SAP S/4HANA) and set their respective API endpoint and credential names.
- Configure cloud integration parameters to enable the End-to-end flow of business data. Navigate to the IFlow and Click on configure on the top right. Once all parameters are configured, Click on Deploy.

<b>Cancel Customer Invoice</b>	
<b>HTTPS Sender Adapter (Workflow Management)</b>	
Body Size	<Body size in MB>
<b>Odata Receiver Adapter (SAP S/4HANA)</b>	
Address	<Mention host name>
Name	API_BILLING_DOCUMENT_SRV
Credential Name	<Select the corresponding credential name from security material>
Resource Path	A_BillingDocument(BillingDocument='\${property.BillingDocument}')
Timeout	<Enter desired connection Timeout in min>
<b>HTTP Receiver Adapter (SAP S/4HANA)</b>	
Address	<Mention host name>
Credential Name	<Select the corresponding credential name from security material>
Timeout	<Enter desired connection timeout in ms>
<b>HTTP Receiver Adapter (SAP S/4HANA)</b>	
Address	<Mention host name>
Timeout	<Enter desired connection timeout in ms>

- Deploy the integration model.