Building block Configuration Guide Upload Data to S/4HC CBO June 2022 English CUSTOMER

Mass Change Data in S/4HC CBO



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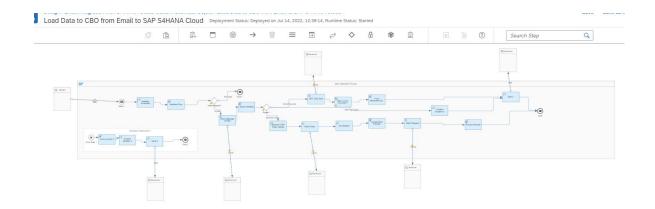
1 Prerequisites

- An SMTP server to support Email integration with SAP Cloud Integration needs to be available. This can be a customer SMTP server, or a new account set up with an internet provider, such as Gmail.
- SAP S/4HANA Cloud Custom Business Objects are exposed as APIs via Communication Scenario / Communication Arrangement
- Credentials created in SAP Cloud Integration has access to any CBO that is in scope for data interaction via email.

2 Documentation

This iFlow allows an end user to retrieve, update and delete data from a SAP S/4HANA Custom Business Object (CBO). The first step would be for the user to retrieve the data to retrieve the correct CSV format (even if the CBO is empty) and then the user can then add, modify or delete the data in the CBO by modifying the CSV file and sending an email back to the inbox monitored by the SAP Cloud Integration iFlow.

For reference, you can refer to this blog for information on email integration with SAP Cloud Integration: https://blogs.sap.com/2022/05/17/reprocessing-messages-using-email-for-sap-cloud-integration/ The blog also contains links on working with the mail adapter in SAP Cloud Integration and how to configure a Gmail account if a corporate SMTP server is not available.



3 Configuration steps on SAP Cloud Integration

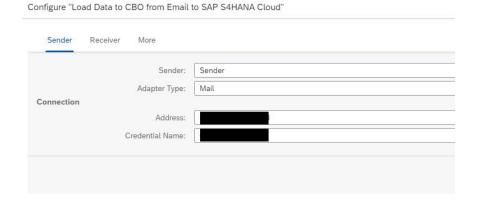
3.1 Configure Mail Sender Adapter

Depending on your mail server requirements, this section will vary but the iFlow should be configured with the username and password to monitor the email address that the payloads will be sent to and from. In this example, we are using GMAIL so a new "User Credentials" artifact was created under "Manage Security Material" application.



This credential name is used in both the sender and receiver channels.

The address is also required in the Sender channel in addition to the Credential Name.



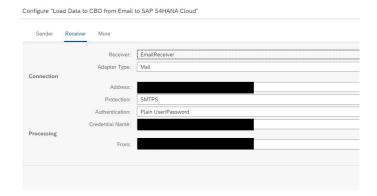
3.2 Configure S4HANA Cloud Receiver Adapter

On the receiver tab, enter the S/4HANA Cloud Hostname and the credentials for the communication arrangement that contains the CBOs.



3.3 Configure Email Receiver

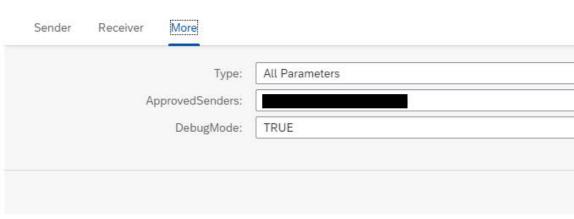
Configure the email receiver channel according to your Email SMTP requirements. For example, here is a Gmail configuration.



3.4 Configure iFlow Properties

There are two properties to configure. The first is a comma separated list of approved senders. If the email address is not contained in this property, the iFlow will not execute. The second is a TRUE/FALSE parameter for "DebugMode" which outputs some verbose MPL payloads when enabled (TRUE). Not recommended to use in heavy load productive scenarios.

Configure "Load Data to CBO from Email to SAP S4HANA Cloud"



Configuration Guide

4 Executing the Integration Flow

Once the iFlow is deployed, all interactions with it can be done via email from an approved sender.

4.1 Retrieving data from CBO

Typically the first step will be to retrieve the fields and/or any existing data from a CBO. In order to receive an extract of the CBO in csv format, send an email to the inbox configured with the integration with the following subject format:

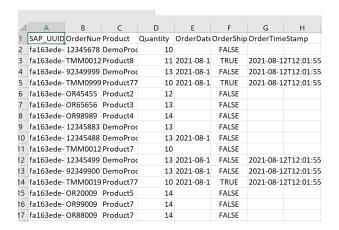
CBO | GET | < CBONAME >



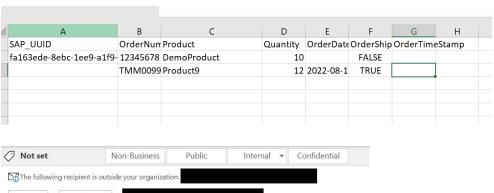
You will get a CSV file back to your email with the CBO data (or just the headers if the CBO is empty).

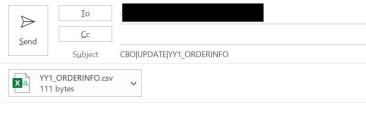
CBO|GET|YY1_ORDERINFO - RESULTS





4.2 Adding or Updating Data in the CBO





The sender will get an email back from BTP Cloud Integration with status lines and the entire response payload from S/4HC in case of any errors.

CBO|UPDATE|YY1_ORDERINFO - RESULTS

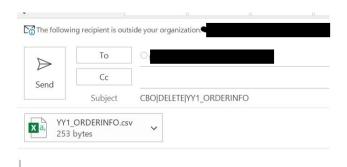


Here are the results of the CBO operation. ContainsError: FALSE

SUCCESS: HTTP/1.1 204 No Content SUCCESS: HTTP/1.1 201 Created

4.3 Deleting Data from a CBO

To delete data from a CBO, pass in a list of SAP_UUIDs with the email subject "CBO|DELETE|<CBO_NAME>"



And the return email will contain the results. Result code 204 is a successfully DELETE operation and removed the record from the CBO.

CBO|DELETE|YY1_ORDERINFO - RESULTS



Here are the results of the CBO operation. ContainsError: FALSE

SUCCESS: HTTP/1.1 204 No Content SUCCESS: HTTP/1.1 204 No Content SUCCESS: HTTP/1.1 204 No Content SUCCESS: HTTP/1.1 204 No Content