Configuration Guide

Microsoft Dynamics CRM Integration with SAP S/4HANA Cloud and SAP ERP April 2023 English

Create Sales Order from Microsoft Dynamics CRM to SAP S/4HANA Cloud



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1 Prerequisites

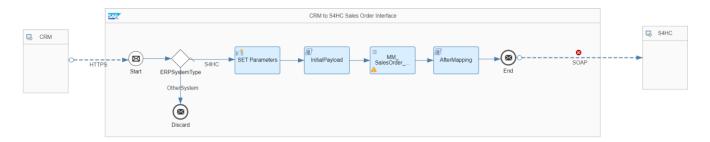
The IFlow consists in sending data of sales orders from Microsoft Dynamics CRM to SAP S/4HANA Cloud.

- Configuration steps in Microsoft Dynamics CRM:
 - o Configuration of HTTPS connection details which includes:
 - Address, Authorization and User Role.
- Configuration steps in SAP S/4HANA Cloud:
 - o Communication Arrangement Configuration in SAP S/4HANA Cloud
 - Scenario ID: SAP_COM_0288
 - Scenario: Sales Order Bulk Integration
 - o Configuration of OData connection details for create and update scenario which includes:
 - Address, Proxy Type and Authorization.

2 Documentation

Microsoft Dynamics CRM has a standard mechanism for cases in which the actual processing or sales orders will be executed in a back-end system, meaning an SAP ECC or S/4HANA system. It offers a "Submit" button which will set the status field of the order in CRM to "Submitted".

This will trigger the transmission of the sales order, but only if it changes from "New" to "Submitted". Then, a message is sent immediately to SAP Cloud Integration. The message is then transformed to the target format and then sent to the SAP S/4HANA Cloud SOAP API which results on the sales order is creation. In this scenario, it was used the SAP_COM_0288 communication scenario (Sales Order Bulk Integration).



The main steps in the scenario are the following:

- 1. Microsoft Dynamics CRM set the status field of the order to "Submitted".
- 2. This will trigger the transmission of the sales order, but only if it changes from "New" to "Submitted".
- 3. A message is sent immediately from Microsoft Dynamics CRM to SAP Cloud Integration via HTTPS call.
- 4. In SAP Cloud Integration is defined the following rule: if **erpsystemtype** field is different from 'S4HC', the message is discarded, otherwise, the process continues.
- After the "MM_SalesOrder_CRM_to_S4HC" mapping between Microsoft Dynamics CRM (salesOrderSource) and SAP S/4HANA Cloud (SALESORDERBULKREQUEST_IN), a message is sent from SAP Cloud Integration to SAP S/4HANA Cloud via SOAP call.

The following custom fields were created on the Sales Order API:

Header level:



Item level:



You can find more information how to create custom fields here:

 $\label{local} https://help.sap.com/docs/SAP_S4HANA_CLOUD/03c04db2a7434731b7fe21dca77440da/1f4c96d4771a42e18a7eba7c87e72960. \\ html?locale=en-US$

3 Configuration steps on SAP Cloud Integration

For setting up the HTTPS Adapter connectivity, please check:

 $https://help.sap.com/docs/CLOUD_INTEGRATION/368c481cd6954bdfa5d0435479fd4eaf/0ae4a78909c4479cbc3cc414250919de.html$

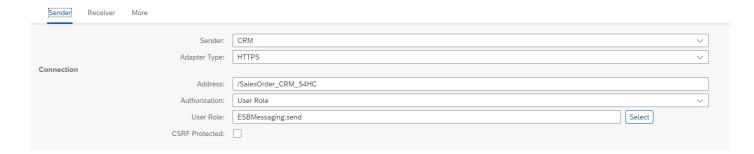
For setting up the SOAP Adapter connectivity, please check:

 $https://help.sap.com/docs/CLOUD_INTEGRATION/368c481cd6954bdfa5d0435479fd4eaf/57f7b34b9b86438d9cb760c5c541f88c.html?locale=en-US$

For further information regarding, API Sales Order (A2A), please check:

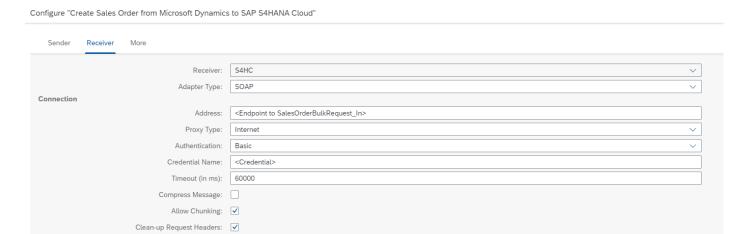
https://api.sap.com/api/SALESORDERBULKREQUEST_IN/overview

3.1 Configure Sender HTTPS Adapter



Address	Enter the URL of the HTTP system to connect to.
Authorization	Enter the authorization option. In this case, it was used "User Role" type, since this is based on roles defined on the tenant for the user associated with the inbound request.
User Role	Enter the User Role. It is a predefined role provided by SAP which authorizes a sender system to process messages on a tenant.

3.2 Configure Receiver SOAP Adapter (Sales Order)



Address	Enter the address of the SOAP API. Note: In this case, it is used the API:
	https://mysystem.s4hana.ondemand.com/sap/bc/srt/scs_ext/sap/salesorderbulkrequest_in
Proxy Type	Enter the proxy type.
Authentication	Enter the authentication method for connecting to the SOAP API.
Credential Name	Enter the credential name of the artifact to authenticate with SAP S/4HANA Cloud. In this case, the communication user created afterwards.

3.3 Additional Parameters



Enable Logging	Enter 'true' or 'false' in case you want to log the payload before and after the mapping.
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3.4 Configure Backend system (SAP S/4HANA Cloud)

This section describes how to set up the communication scenario SAP_COM_0288 for Sales Order Bulk integration by using the Communication Arrangement tool.

1.1.1. Prerequisites

You must create a business role by using the template SAP_BR_ADMINISTRATOR and assign this to the administrator in the SAP S/4HANA Cloud system.

For more information, refer to Maintain Business Roles:

https://uacp.hana.ondemand.com/http.svc/rc/PRODUCTION/1a93686c176845f0832a2a73221dd90b/1611%20500/en-US/frameset.htm?8980ad05330b4585ab96a8e09cef4688.html

1.1.2. Communication User

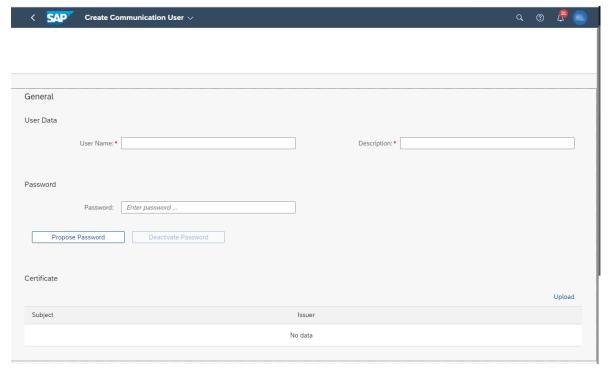
The communication user defined in the SAP S/4HANA Cloud system is used for inbound communication and for processing messages in the system.

Procedure

- 1. Access the SAP S/4HANA Cloud system and log on as an Administrator.
- 2. Choose the Maintain Communication Users tile under Communication Management.



3. Choose New.



4. Enter the User Name and Description.

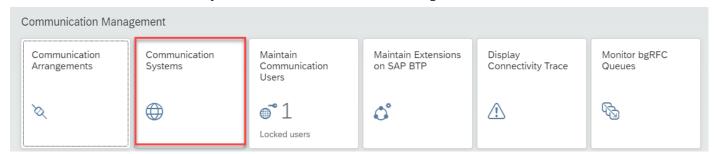
- 5. Enter a password. You can also upload an SSL client certificate.
- 6. Choose Create.

1.1.3. Communication System

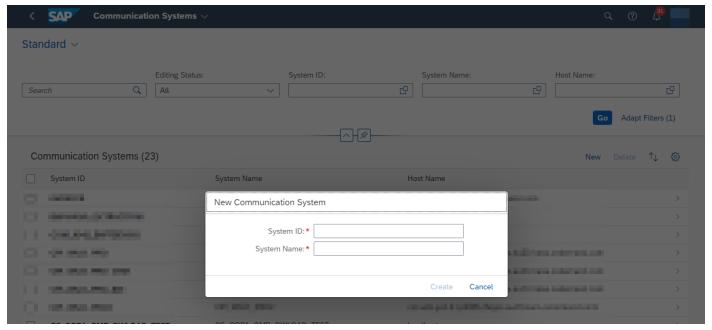
The communication system defined in the SAP S/4HANA Cloud system is used as the source or target system.

Procedure

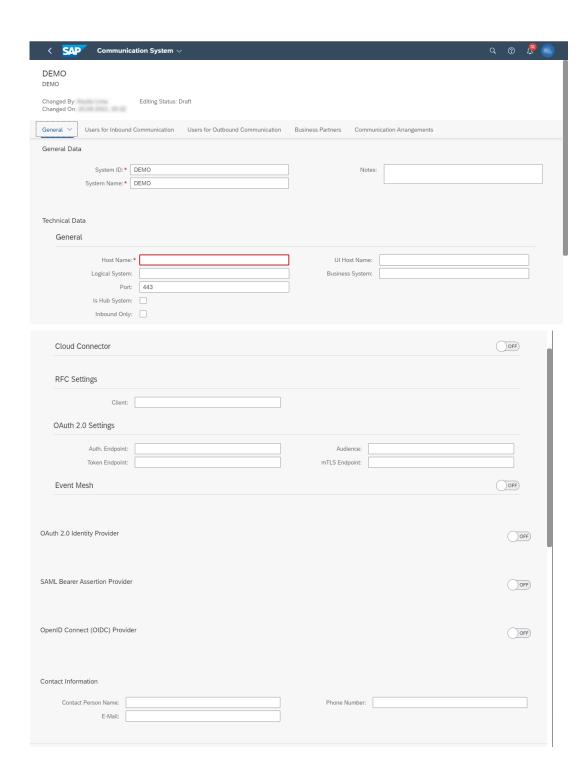
- 1. Access the SAP S/4HANA Cloud system and log on as an Administrator.
- 2. Choose Communication Systems tile under Communication Management.

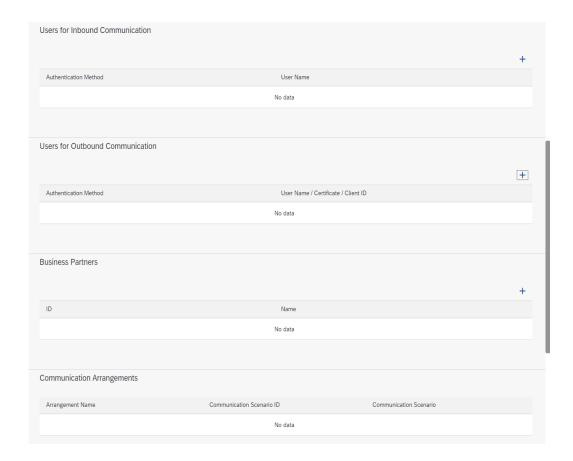


3. In the next window, choose New. The following screen appears.



- 4. Enter the System ID. Optionally, you can enter the ID to recognize the integration system, which is connected with the SAP S/4HANA Cloud system.
- 5. Enter a descriptive name in the System Name field.
- 6. Choose Create.

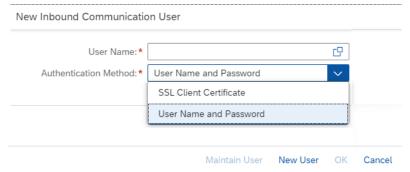




- 7. In the Host Name field, enter the SAP Runtime URL without HTTPS://
- 8. Enter the Log System ID as the SAP tenant ID.
- 9. Enter the Business System ID as the SAP tenant ID.
- 10. Under User for Inbound Communication, choose Add.



11. Choose an Authentication Method as per your requirements and specify a relevant User Name. Choose OK.



1.1.4. Communication Arrangement

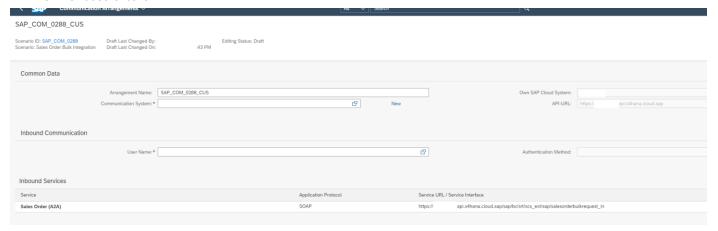
The Communication Arrangements defined in SAP S/4HANA Cloud systems enables key users to create and edit communication arrangements that your company has set up with a communication partner.

Procedure

1. Access the SAP S/4HANA Cloud system and log on as an Administrator and open the app Communication Arrangements.

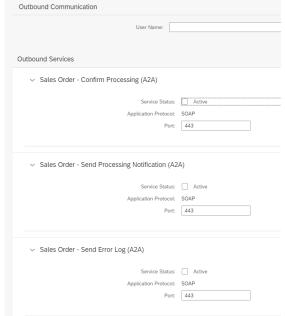


- 2. Choose New.
- 3. Choose the scenario SAP_COM_0288 from the value help.
- 4. Enter an Arrangement Name.
- Choose Create:



Note: You can find the target URL under the "Service URL / Service Instance" column. This is the endpoint to be configured on the SAP Cloud Integration IFlow.

- 6. Choose Communication System ID from the value help.
- 7. Under Inbound Communication, choose User Name using value help. By default, the user, who is associated with Communication System will be shown in the value help. Choose the same.
- 8. Deactivate all the Outbound Services:



9. Choose Save.