## **Configuration Guide**

SAP ERP Master Data Integration with SAP S/4HANA Cloud January 2023 English

# Create or Update Customer Master Data from SAP ERP to SAP S4HANA Cloud



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## 1 Prerequisites

The Iflow consists in sending a Customer Master Data from SAP ERP (SAP ECC) to S/4HANA Cloud.

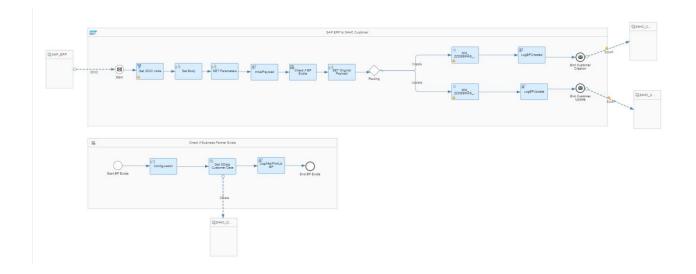
- Configuration steps in SAP ERP (SAP ECC):
  - o Setting up of IDoc Communication for create and update scenario which includes:
    - Define Logical Systems, Assign Logical Systems, Create the RFC Destination, Create Port for IDOC Processing, Maintain ALE Distribution Model, Manually Maintain Partner Profile.
- Configuration steps in SAP S/4HANA Cloud:
  - o Configuration of Communication Arrangement for Scenario ID SAP\_COM\_0008 Related OData connection details for create and update scenario which includes:
    - Address, Proxy Type and Authorization.

## 2 Documentation

Regardless of whether the Customer IDoc defined in SAP ERP is DEBMAS07 or ZZ\_DEBMAS\_360, the flow will filter by the main IDoc node to process all messages as if they were one.

What will define if the Customer is a creation or a change is a call to the API OData with the Customer number to check if the Customer exists in S/4HANA Cloud, if it exists, it follows the change route, if not the creation route.

Customer Creation or Change in S/4HANA Cloud is triggered by SOAP API call related to communication Scenario SAP\_COM\_0008 - Business Partner, Customer and Supplier Integration.



# 3 Configuration steps on SAP Cloud Integration

To set up the IDOC

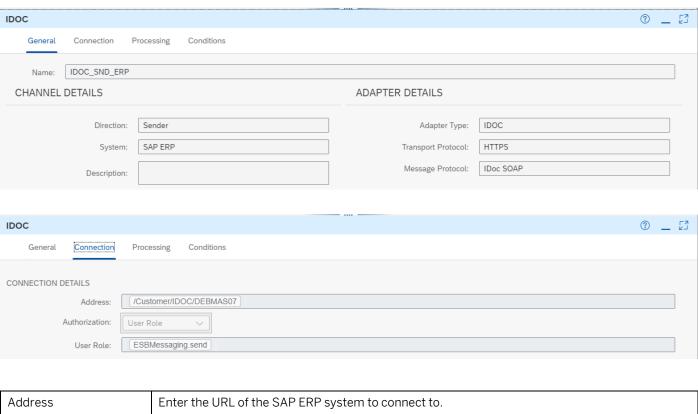
Try to define specific section, such as:

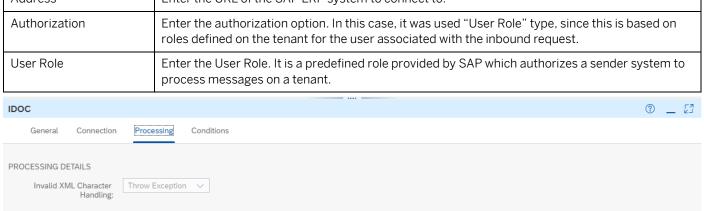
- Receiver Configuration
- Sender Configuration
- Cloud Connector Configuration
- Sender System Configuration
- Receiver System Configuration

If there are any backend system configuration needed, please describe them here shortly.

The following subsections are only proposals and can be changed.>

## 3.1 Configure Sender IDOC Adapter







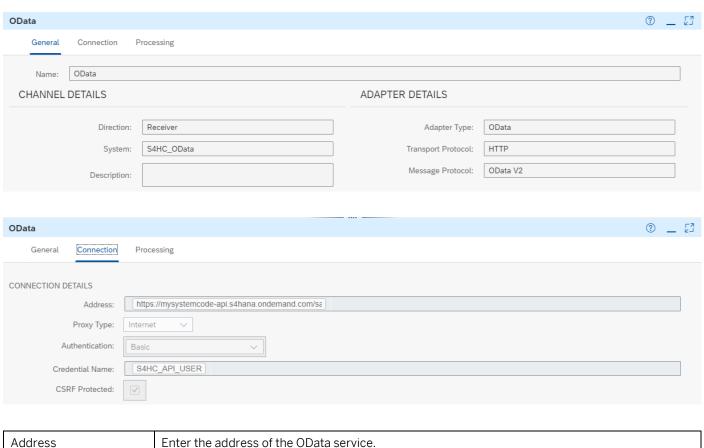
#### For further information:

### IDOC Adapter:

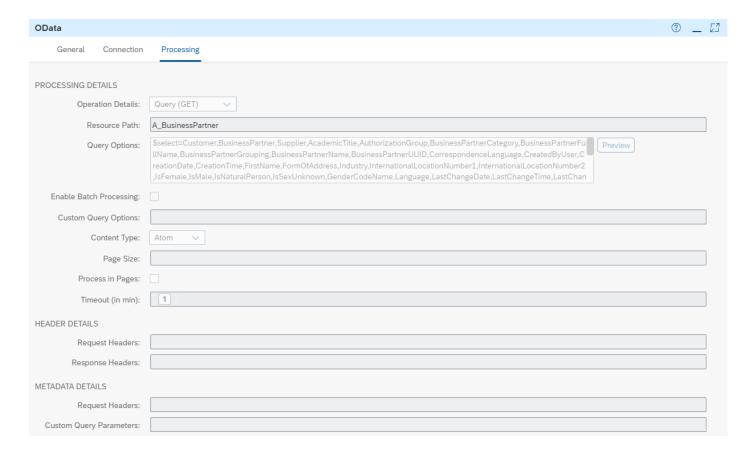
 $https://help.sap.com/docs/CLOUD\_INTEGRATION/368c481cd6954bdfa5d0435479fd4eaf/6042250661aa437c81dc8b3b4de567c4.html?locale=en-US$ 

## 3.2 Configure Receiver ODATA Adapter (GET Customer)

The receiver OData Adapter for Get Customer data is described below:



| Address   | Enter the address of the OData service.  Note: In this case, it is used the API:  https://mysystem.api.s4hana.ondemand.com/sap/opu/odata/SAP/API_BUSINESS_PARTNER  |
|---|--|
| Proxy Type  | The type of proxy you want to use for establishing connection with OData Service.  Currently, you can choose between Internet (default) and On-Premise.  Define Internet for S/4HANA Cloud. For On-Premise systems it is required to define Location ID. |
| Location ID (Only Proxy<br>Type as On-Premise)                  | Location ID that you've configured in the cloud connector installed on your system.  |
| Authentication  | Enter the authentication method for connecting to the OData service. E.g Basic, client certificate.  |
| Credential Name   | Credential name of the credentials that is deployed in Security Material section of (Operations View)  |
| Private Key Alias (Only for Client Certificate Authentication). | Enter the private key alias that enables the system to fetch the private key from keystore for authentication.   |
| CSRF Protected  | Check. By default, option.   |



| Operation Details | Enter the operation preferred. For this step, please define Query GET.   |
|-------------------|--|
| Resource Path     | Select the Model Operation where you can find and select the entity preferred and after the fields for model operation. In this case, define <i>A_BusinessPartner</i>  |
| Query Options     | Select the fields from Resource Path (entity that you're performing the operation on). In this case, consider this select all fields and add this filter: \$select=Customer,BusinessPartner,Supplier,AcademicTitle,&\$filter=Customer eq '\${property.Customer}' |

### For further information:

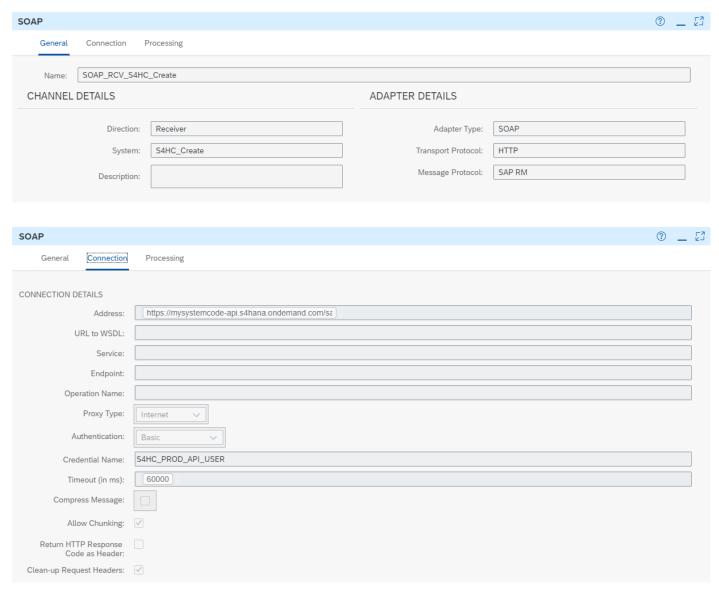
#### OData Adapter | SAP Help Portal

API Business Partner A2X Create, read, update or delete the master data for business partner, supplier or customer using this synchronous inbound service:

Overview | Business Partner (A2X) | SAP API Business Hub

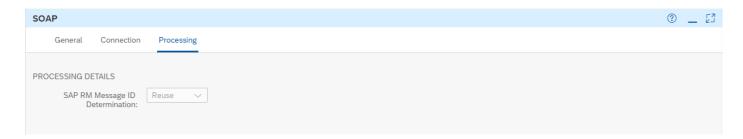
## 3.3 Configure Receiver SOAP Adapter (CREATE Customer)

The receiver SOAP Adapter for Create Customer data is described below:



| Address   | Enter the address of the SOAP service.  Note: In this case, it is used the API:  https://mysystem.api.s4hana.ondemand.com/sap/bc/srt/scs_ext/sap/businesspartnersuitebulkreplic   |  |
|---|---|--|
| Proxy Type  | The type of proxy you want to use for establishing connection with SOAP Service.  Currently, you can choose between Internet (default) and On-Premise.  Define Internet for S/4HANA Cloud. For On-Premise systems it is required to define Location ID. |  |
| Location ID<br>(Only Proxy<br>Type as On-<br>Premise) | Location ID that you've configured in the cloud connector installed on your system.   |  |
| Authentication  | Enter the authentication method for connecting to the OData service. E.g Basic, client certificate.   |  |
| Credential<br>Name                                    | Credential name of the credentials that is deployed in Security Material section of View) (Operations   |  |
| Private Key<br>Alias (Only for<br>Client              | Enter the private key alias that enables the system to fetch the private key from keystore for authentication.  |  |

Certificate
Authentication).



For further information:

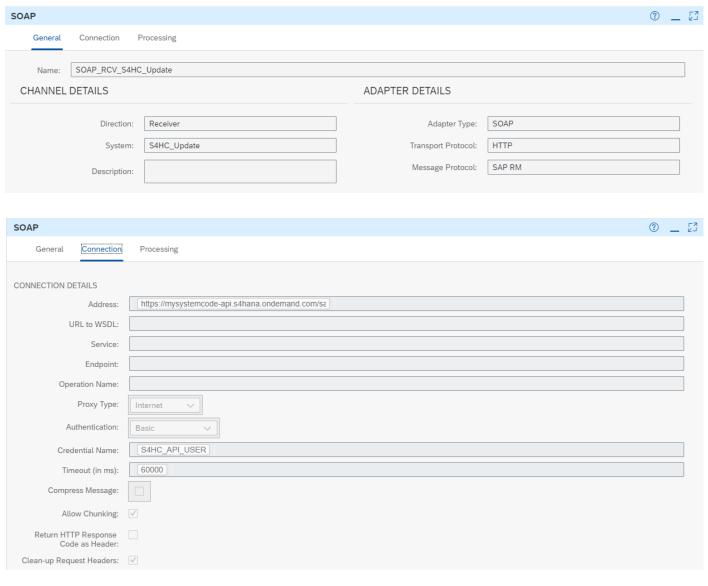
SOAP (SAP RM) Adapter | SAP Help Portal

API Business Partner Replicate from Client to SAP S/4HANA Cloud:

**Business Partner A2A** 

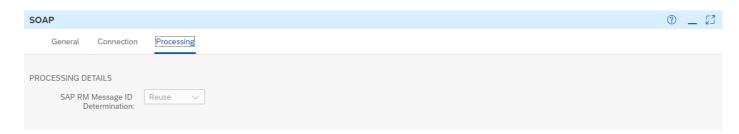
## 3.4 Configure Receiver SOAP Adapter (UPDATE Customer)

The receiver SOAP Adapter for Customer Update is described below:



| Address   | Enter the address of the SOAP service.  Note: In this case, it is used the API:  https://mysystem.api.s4hana.ondemand.com/sap/bc/srt/scs_ext/sap/businesspartnersuitebulkreplic?M essageId=\${header.MessageId}   |
|---|---|
| Proxy Type  | The type of proxy you want to use for establishing connection with SOAP Service.  Currently, you can choose between Internet (default) and On-Premise.  Define Internet for S/4HANA Cloud. For On-Premise systems it is required to define Location ID. |
| Location ID<br>(Only Proxy<br>Type as On-<br>Premise) | Location ID that you've configured in the cloud connector installed on your system.   |
| Authenticati<br>on                                    | Enter the authentication method for connecting to the OData service. E.g Basic, client certificate.   |
| Credential<br>Name                                    | Credential name of the credentials that is deployed in Security Material section of (Operations View)   |
| Private Key<br>Alias (Only                            | Enter the private key alias that enables the system to fetch the private key from keystore for authentication.  |

for Client
Certificate
Authenticati
on).



For further information:

SOAP (SAP RM) Adapter | SAP Help Portal

API Business Partner Replicate from Client to SAP S/4HANA Cloud:

Business Partner A2A

## 3.5 Configure Receiver system (SAP S/4HANA Cloud)

This section describes how to set up the communication scenario SAP\_COM\_0008 for Business Partner, Customer and Supplier Integration by using the Communication Arrangement tool.

## 3.5.1 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%20

### 3.5.2 Communication User

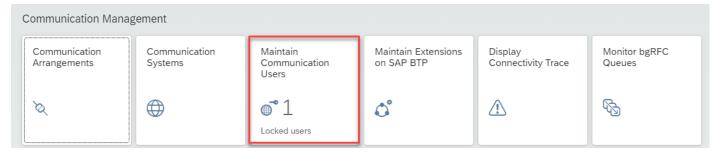
The communication user defined in the SAP S/4HANA Cloud system is used for inbound communication and for processing messages in the system.

#### Procedure

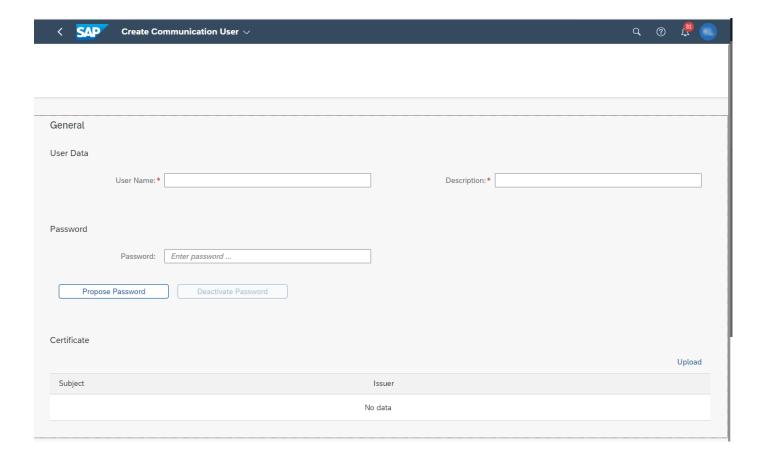
1. Access the SAP S/4HANA Cloud system and log on as an Administrator.

500/en-US/frameset.htm?8980ad05330b4585ab96a8e09cef4688.html

2. Choose the Maintain Communication Users tile under Communication Management.



3. Choose New.



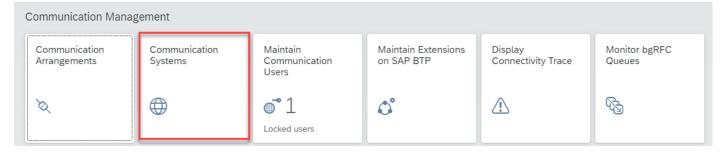
- 4. Enter the User Name and Description.
- 5. Enter a password. You can also upload an SSL client certificate.
- 6. Choose Create.

## 3.5.3 Communication System

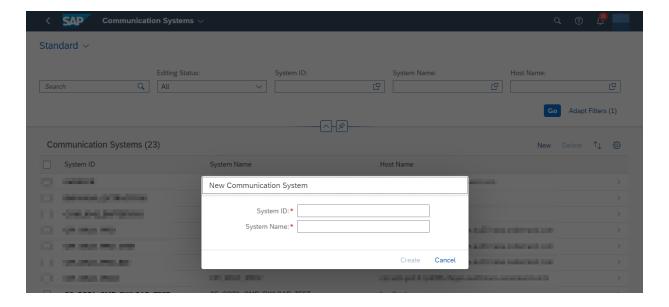
The communication system defined in the SAP S/4HANA Cloud system is used as the source or target system.

#### Procedure

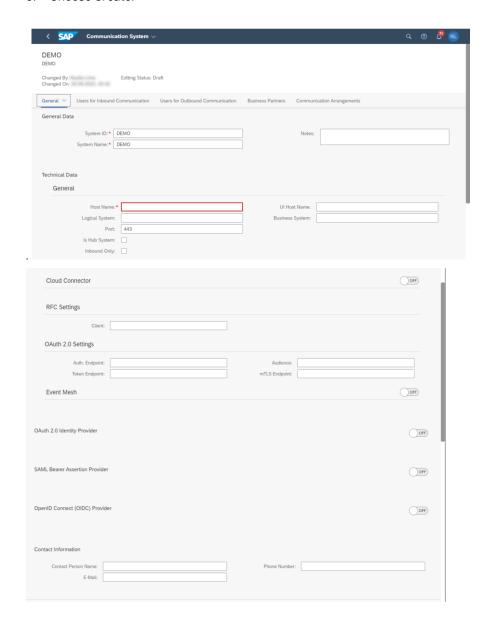
- 1. Access the SAP S/4HANA Cloud system and log on as an Administrator.
- 2. Choose Communication Systems tile under Communication Management.

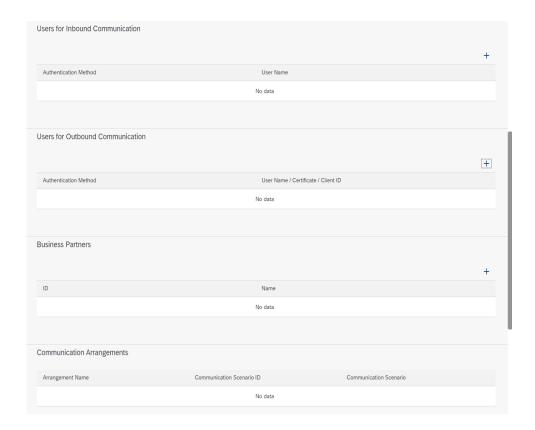


3. In the next window, choose New. The following screen appears.

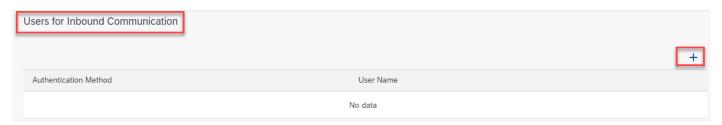


- 4. Enter the System ID. Optionally, you can enter the ID to recognize the integration system, which relates to the SAP S/4HANA Cloud system.
- 5. Enter a descriptive name in the System Name field.
- 6. Choose Create.

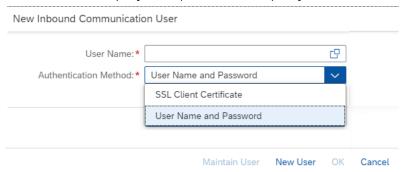




- 7. In the Host Name field, enter the SAP Runtime URL without HTTPS://
- 8. Enter the Log System ID as the SAP tenant ID.
- 9. Enter the Business System ID as the SAP tenant ID.
- 10. Under User for Inbound Communication, choose Add.



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



12. User for Outbound communication, choose the User Name and Authentication Method as per your requirements.



13. Choose Create.

14. Choose Save.

## 3.5.4 Communication Arrangement

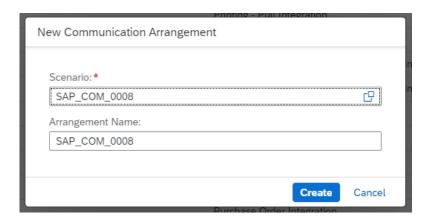
The Communication Arrangements defined in S/4HANA Cloud systems enables key users to create and edit communication arrangements that your company has set up with a communication partner.

#### Procedure

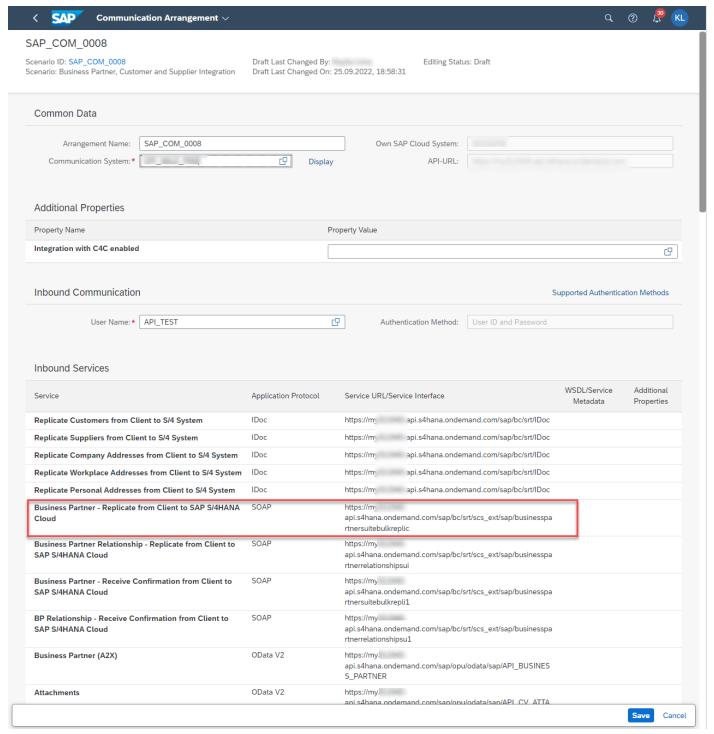
1. Access the SAP S/4HANA Cloud system and log on as an Administrator and open the app Communication Arrangements.



2. Choose New.



- 3. Choose the scenario SAP\_COM\_0008 from the value help
- 4. Enter an Arrangement Name.
- 5. Choose Create.



- 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. Choose Save.