English

Replicate Employee data from SAP S/4HANA HCM to SAP Concur



## **Document History**

Revision	Date	Author
0	January, 2022	Bertrand Henkel

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Configuration Guide Error! Reference source not found.

## 1 Prerequisites

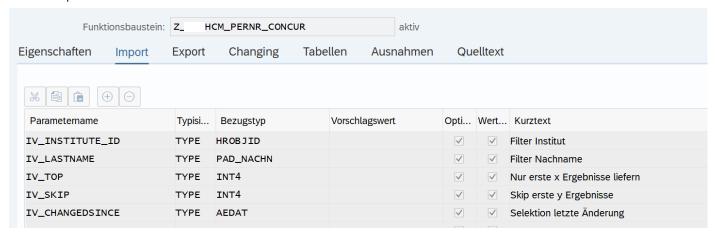
#### Access to the following systems:

- 1. SAP S/4HANA System (Technical User required)
- 2. BTP Subaccount for SAP Cloud Integration (Admin Roles)
- 3. SAP Cloud Integration (Configuration Roles)

## 2 Configuration steps on SAP Cloud Integration

In this scenario the SAP CI is used as a middleware in order to replicate the employee data from SAP S/4HANA OnPremise HCM to SAP Concur using a custom BAPI. The BAPI is not part of this documentation and needs to be developed by yourself in the ABAP environment. The BAPI should provide the following information (please be aware that changes in the Iflow/Mapping due to different BAPI development might be possible).

#### Input Parameter:



#### **Output Paramter**



ET\_PERNR

_	2						
PERNR	Туре	✓ PERSNO	NUMC	8	0	0 Persona	alnummer
CONTRACTSTART	Туре	∨ <u>BEGDA</u>	DATS	8	0	0 Gültigke	eitsbeginn
CONTRACTEND	Туре	✓ ENDDA	DATS	8	0	0 Gültigke	eitsende
ISCONTRACTINTERRU	P. Type	∨ XFELD	CHAR	1	0	0 Feld zu	m Ankreuzen
CONTRACTINTERRUPT	<u>Е</u> Туре	✓ DATUM	DATS	8	0	0 Datum	
PHONE	Туре	VAD_TLNMBR1	CHAR	30	0	0 Erste Te	elefon-Nr.: Vorwahl + Anschluß
EMAIL	Туре	VAD_SMTPADR	CHAR	241	0	0E-Mail-A	Adresse
MOBILE	Туре	VAD_MBNMBR1	CHAR	30	0	0 Erste M	lobiltelefon-Nr.: Vorwahl + Anschluß
DISPLAYNAME	Туре	∨ <u>EMNAM</u>	CHAR	40	0	0 Aufbere	eiteter Name des Mitarbeiters bzw. Bewerbers
FIRSTNAME	Туре	V PAD_VORNA	CHAR	40	0	0 Vornam	ne
LASTNAME	Туре	V PAD_NACHN	CHAR	40	0	0 Nachna	me
USERNAME	Туре	∨ SYUNAME	CHAR	12	0	0 Benutze	ername
COUNTRYCODE	Туре	V LAND1	CHAR	3	0	0 Länders	
CURRENCY	Туре	∨ WAERS	CUKY	5	0		gsschlüssel
ACTIVE	Туре	V CHAR1	CHAR	1	0		ges Kennzeichen
SYSID	Туре	V SYSYSID	CHAR	8	0		des SAP-Systems
BUKRS	Туре	∨ BUKRS	CHAR	4	0	0 Buchun	
WERKS	Туре	✓ <u>BORRS</u> ✓ <u>PERSA</u>	CHAR	4	0	0 Persona	-
BTRTL	Туре	∨ PERSA ∨ BTRTL	CHAR	4	0		alteilbereich
PERSK	Туре	∨ <u>BIRIL</u> ∨ <u>PERSK</u>	CHAR	2	0	0 Mitarbe	
				1	0		
PERSG	Туре	∨ PERSG	CHAR	2	0		itergruppe
COSTOBITY	Туре	✓ <u>J_OBART</u>	CHAR			0 Objekta	
COSTOBJID	Туре	✓ GEN_REC	CHAR	35	0		einer Empfänger
PERNR_MANAGER	Туре	∨ <u>PERSNO</u>	NUMC	8	0		alnummer
NAMEPREFIX	Туре	✓ <u>ANRED</u>	CHAR	15	0	0 Anrede	
NAMEAFFIX	Туре	∨ <u>NAMZU</u>	CHAR	15	0	0 Zusatzv	vort
TITLE	Туре	V TITEL	CHAR	15	0	0 Titel	
GENDER	Туре	∨ <u>GESCH</u>	CHAR	1	0		echtsschluessel
BIRTHDATE	Туре	∨ <u>GBDAT</u>	DATS	8	0	0 Geburts	
BIRTHPLACE	Туре	∨ <u>GBORT</u>	CHAR	25	0	0 Geburts	
DEPARTMENT	Туре	∨ <u>ORGEH</u>	NUMC	8	0		ationseinheit
INSTITUTE	Туре	∨ <u>HROBJID</u>	NUMC	8	0	0 Objekt-l	
DIVISION	Туре	✓ <u>CHAR60</u>	CHAR	60	0	0 Char 60	
COSTCENTER	Туре	✓ <u>TEXT40</u>	CHAR	40	0		der Länge 40
LOCATION	Туре	✓ <u>TEXT40</u>	CHAR	40	0		der Länge 40
WORKFORCEID	Туре	✓ <u>TEXT40</u>	CHAR	40	0		der Länge 40
ORCIDID	Туре	✓ <u>TEXT40</u>	CHAR	40	0		der Länge 40
USERPERMISSION	Type	∨ <u>CHAR1</u>	CHAR	1	0	0 Einstelli	ges Kennzeichen
				2175		0	
CHANGEDON	Туре	✓ AEDAT		DATS	8	0	O Datum der letzten Änderung
ISAPPROVER	Туре	∨ CHAR1		CHAR	1	0	O Einstelliges Kennzeichen
EXAPPROVAL	Туре	✓ CHAR1		CHAR	1	0	O Einstelliges Kennzeichen
TRAVELWIZARD	Туре	∨ CHAR1		CHAR	1	0	O Einstelliges Kennzeichen
ET_ROLES							
PERNR	Туре	∨ PERSNO	NU	MC	8	0	0 Personalnummer
L					15	0	OConcur RoleCode (Satzart 400)
ROLECODE	Туре						
PARAM1	Туре	✓ <u>TEXT50</u>	СН	AR	50	0	0 Textfeld
PARAM2	Туре	V TEXT50	CH	AR	50	0	0 Textfeld

## 2.1 Connect to SAP Concur SFTP Server

Please follow the steps explained in Cloud Integration – How to Setup Secure Connection to sftp Server:

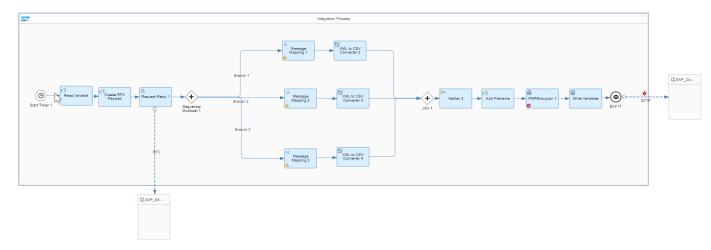
- IP Ranges
- Known Host
- SSH Key

## 2.2 Create PGP Key

In order to encrypt the message, one has to create a PGP Key in SAP CI.

### 2.3 Replicate Employee data from SAP S/4HANA to SAP Concur

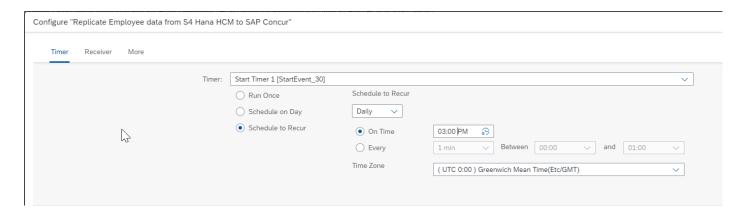
The main process calls the custom BAPI Z\_XXXHCM\_PERNR\_CONCUR via an RFC Destination and maps the result into three different CSV structures, which is uploaded to an SFTP Server in SAP Concur. The file will be PGP encrypted in the Flow.



## 2.4 Configuration Steps - Replicate Employee data from SAP S/4HANA HCM to SAP Concur

Timer:

Set the Timer on a daily regular basis.



#### Receiver

#### SAP\_ERP:

- Destination: RFC Destination, which has been defined in the SAP BTP Subaccount pointing to the SAP S/4HANA HCM.



#### SAP\_CONCUR\_SFTP:

- Directory: Inbound Directory of the SFTP Server
- Address: SFTP Server Host
- Proxy Type
- Authentication: Authentication method
- User Name: User Name
- Private Key Alias: Private Key Alias

#### Processing

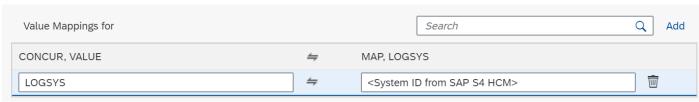
Handling for Existing Files

#### More

- LAST\_SUCCESS\_DATE\_DEFAULT\_DATE: Define Default Value since when the Iflow should be scheduled.
- PGP\_User: PGP Encryption Key
- SFTP\_FileName: File Name of the file

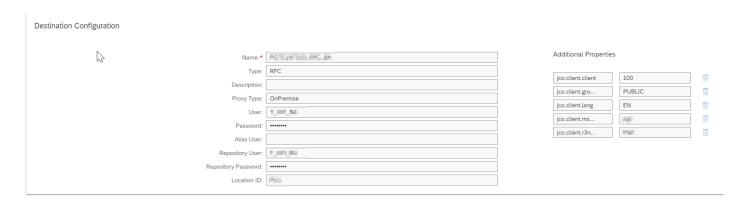
# 3 Value Mapping for Integration between SAP S/4HANA HCM to SAP Concur

The Value Mapping is used in order to map the SAP S/4HANA HCM system ID to a predefined SAP Concur Logsys.



## 4 SAP BTP - Subaccount RFC Destination

#### Configuration of the RFC Destination on the BTP subaccount



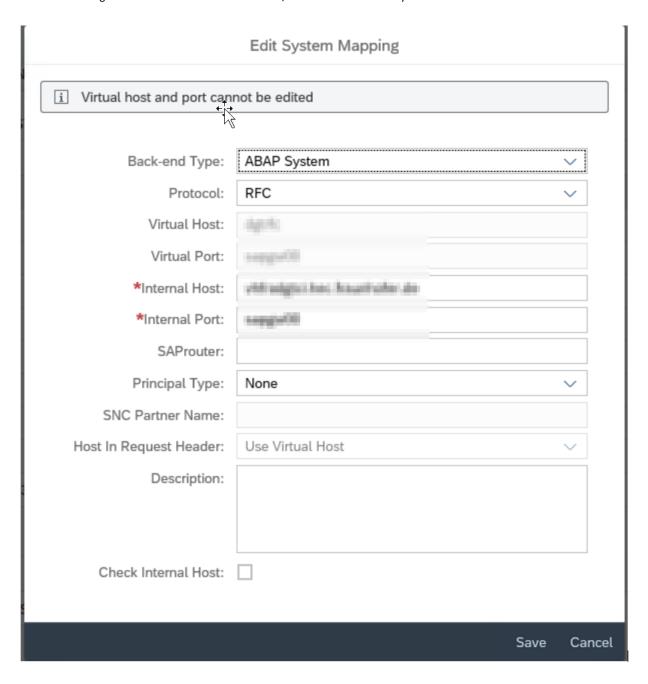
- Type: RFC
- Proxy Type: OnPremise
- User: communication user defined in the SAP S/4HANA HCM System
- Password: Passwort of this communication user
- LocationID: location ID of the cloud connector

#### **Additional Properties:**

- Jco.client.amshost: xxx (as defined in the Cloud Connector)
- jco.client.r3name: xxx (as defined in the Cloud Connector)
- Jco.client.client: SAP S/4HANA client
- Jco.client.lang: EN (System language)
- jco.client.group: PUBLIC

## 5 Cloud Connector

The cloud connector is used as a reverse inbound proxy in order to be able to communicate from Cloud to an OnPremise system. One has to configure the RFC Destination to the SAP S/4HANA HCM backend system.



Please also allow the following resource:

Z\_XXXHCM\_PERNR\_CONCUR