Configuration Guide CUSTOMER

Replicate Business Partner from S4HANA Private Cloud to SAP S4HANA Public Cloud Edition Replicate Business Partner Confirmation from SAP S/4HANA Public Cloud Edition to S/4HANA Private Cloud (Optional) January 2025 English

# Business Partner Replication from S/4HANA to S/4HANA Public Cloud



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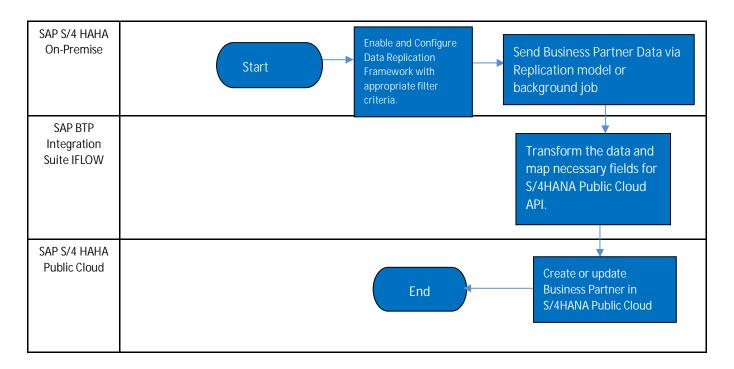
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# 1 Prerequisites

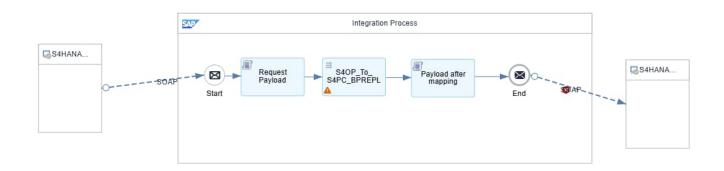
The following configurations are required when implementing this interface:

- 1. Cloud Connector is recommended to be setup for the connectivity between SAP BTP Integration Suite and S/4HANA On-Premise system.
- 2. Communication Scenario SAP\_COM\_0179 is activated in S/4HANA Public Cloud.
- 3. SOAMANAGER Logical Ports are setup in S/4HANA On-Premise.
- 4. Data Replication Framework Configuration is completed within S/4HANA On-Premise.

### 2 Documentation



Business Partner Replication Process Flow

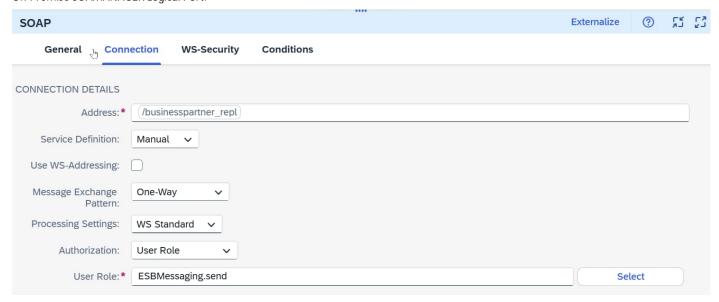


Business Partner Replication Integration Flow

# 3 Configuration steps on SAP Cloud Integration

### 3.1 Configure Sender Adapter

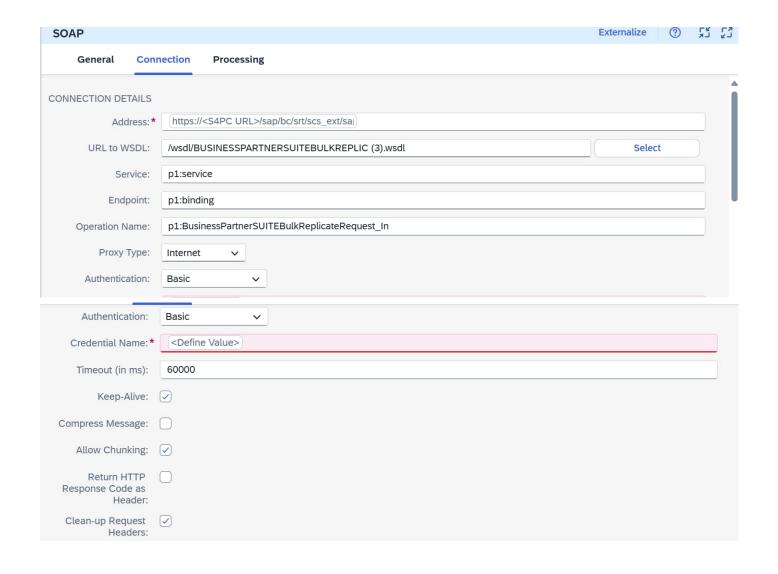
The following needs to be configured in the Sender Adapter. This will be forming the part of the endpoint to be called from the SAP S/4HANA On-Premise SOAMANAGER Logical Port:



Sender Adapter Configuration	er Adapter Configuration		
Address	Configure a meaningful unique Address after a slash. This will be used from the S/4HANA Public Cloud Communication Arrangement URL.		
Service Definition	Manual		
User Role	This will depend on the preference of the organization, whether to use 'ESBMessaging.send' or Certificate Authentication		

### 3.2 Configure Receiver Adapter

The following needs to be configured in the Receiver Adapter to be able to connect to SAP S/4HANA Public Cloud:



Receiver Adapter Configuration			
Address	This will consist of the URL to the S/4HANA Public Cloud system and the indicated suffix in the standard package.		
URL to WSDL	<maintain indicated="" same="" the="" url=""></maintain>		
Endpoint	<maintain endpoint="" indicated="" same="" the=""></maintain>		
Operation Name	<maintain indicated="" name="" operation="" same="" the=""></maintain>		
Proxy Type	Internet		
Authentication	Basic		
Credential Name	This is the Credential created within the SAP BTP Security Material section		
Timeout	60000		

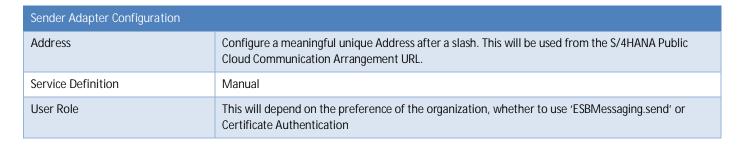
### 4 Confirmation Configuration steps on SAP Cloud Integration

### 4.1 Configure Sender Adapter

The following needs to be configured in the Sender Adapter. This will be forming the part of the endpoint to be called from the SAP S/4HANA Public Cloud:

Configure "Replicate Business Partner Confirmation from SAP S4HANA Public Cloud Edition to S4HANA Private Cloud"

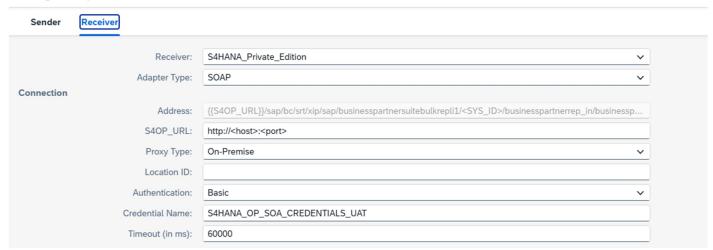




### 4.2 Configure Receiver Adapter

The following needs to be configured in the Receiver Adapter to be able to connect to SAP S/4HANA Private Cloud:

Configure "Replicate Business Partner Confirmation from SAP S4HANA Public Cloud Edition to S4HANA Private Cloud"



Receiver Adapter Configuration			
Address	This will consist of the URL to the S/4HANA On-premise system and the indicated suffix in the standard package. The corresponding Client System ID must be added as well.		
URL to WSDL			
Endpoint			
Operation Name			
Proxy Type	On-Premise (for Cloud Connector setup)		
Location ID	Cloud Connector Location ID if applicable		
Authentication	Basic		
Credential Name	This is the Credential created within the SAP BTP Security Material section		
Timeout	60000		

### 5 Configuration steps on S/4HANA On-Premise

Business Partner is sent from the S/4HANA On-Premise system via DRF (Data Replication Framework).

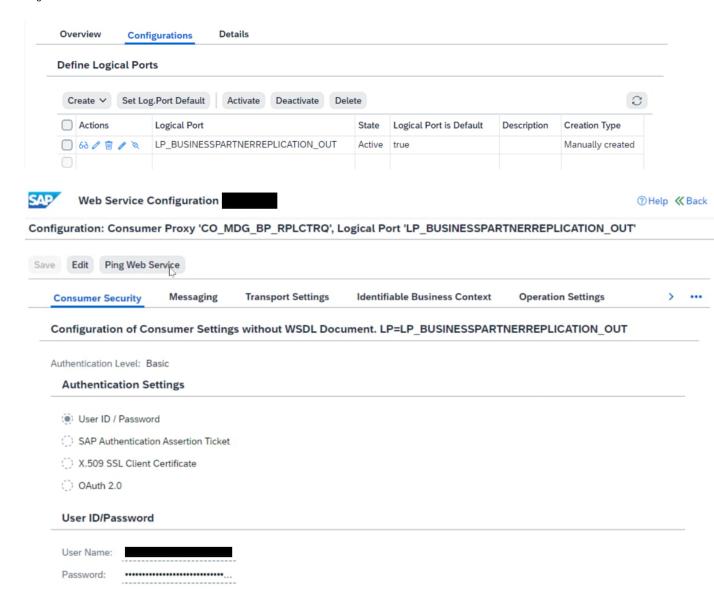
#### 5.1 Activation of Standard SOAMANAGER Service

#### **SOAMANAGER Logical Port**

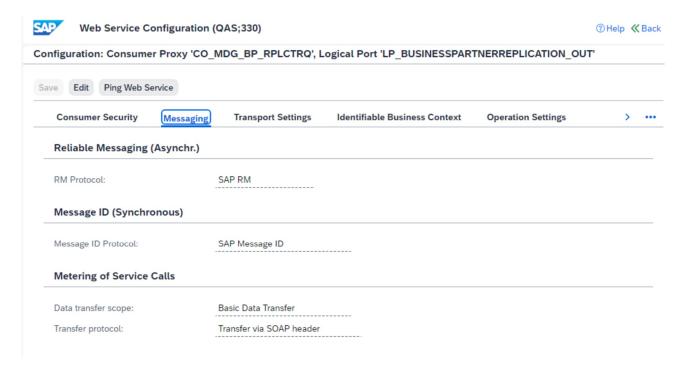
The Business partner data requires a Standard Service Definition to be activated with its Logical Port configured via SOAMANAGER to enable the receipt of data within S/4HANA On-Premise:

Details of Consumer Proxy: CO\_MDG\_BP\_RPLCTRQ

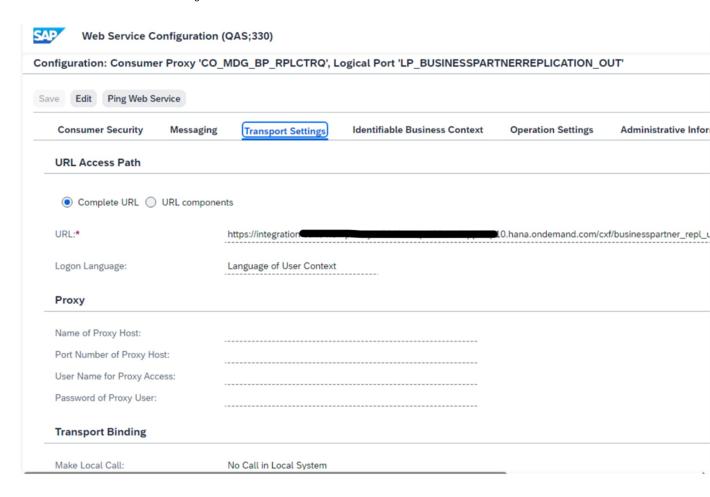
Logical Port:



User ID and Password pertains to the BTP Service instance and key:



URL Access Path is the SAP BTP Integration Suite IFLOW:

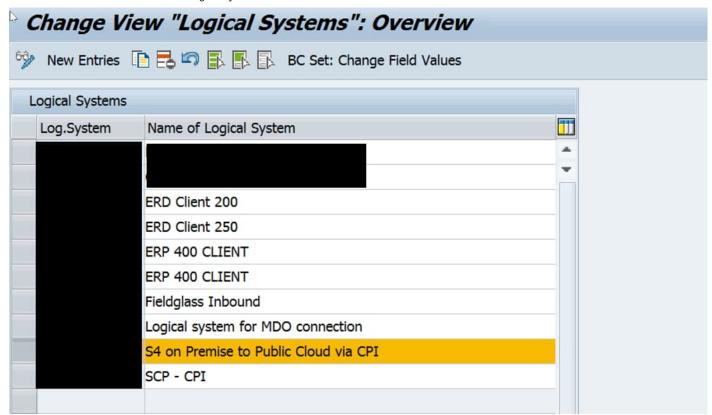


Configuring and Triggering the Business Partner Replication interface from S/4HANA On-Premise

The following are the configuration in done in On-prem in order to activate the DRF replication:

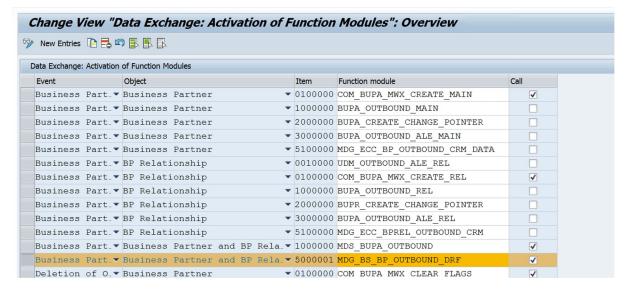
Business Partner - DRF Configuration

In transaction code BD54, create the logical system:

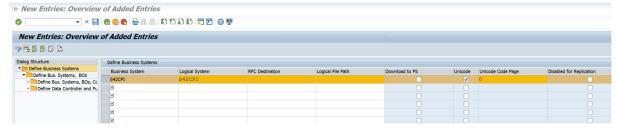


#### BUPA\_CALL\_FU

Activate the highlighted item below:

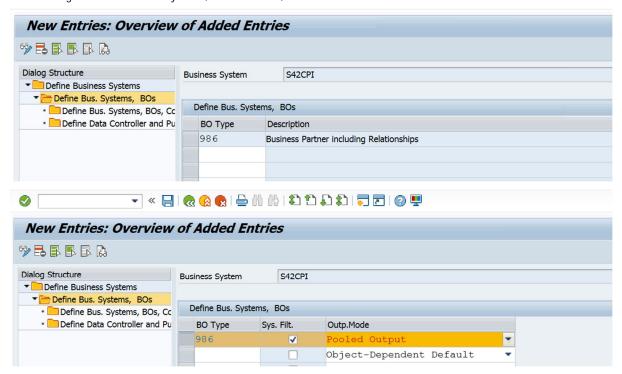


Go to the transaction DRFIMG using the IMG following path: Define Custom Settings for Data Replication -> Define Technical Settings -> Define Technical Systems for Business Systems

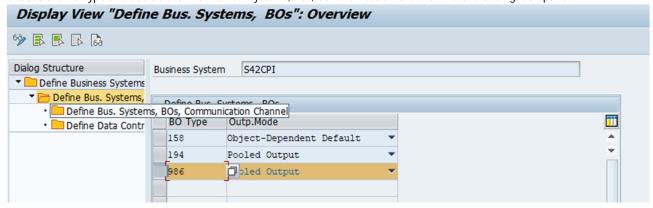


Choose the Business System and double-click Define Bus. Systems, Bos in the left navigation panel.

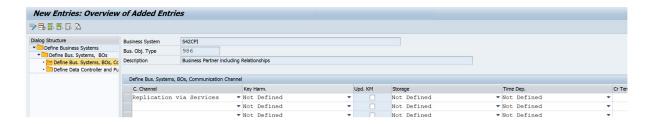
In the Change View Define Bus. Systems, Bos: Overview, choose New Entries:



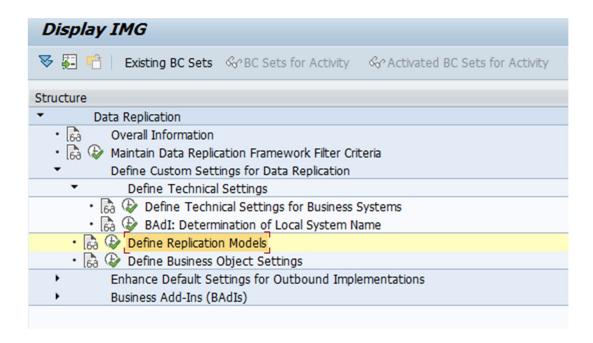
Choose the BO Type and double click Define Bus. Systems, Bos, Communication Channel in the left navigation panel.



In the Change View Define Bus. Systems, Bos, Communication Channel: Overview, choose New Entries:



Go to the transaction DRFIMG using the following IMG path: Define Custom Settings for Data Replication -> Define Replication Models In the Define Replication Model: Overview, choose New Entries:





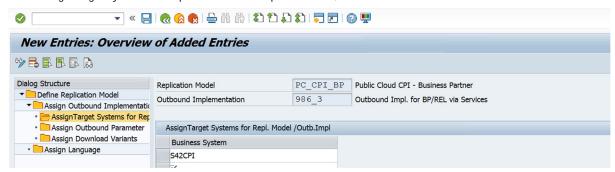
Choose the replication model and choose Assign Outbound Implementation in the left navigation panel.

In the Assign Outbound Implementation: Overview, choose New Entries:



Choose the new outbound implementation and choose Assign Target Systems for Repl. Model/Outb.Impl. in the left navigation panel.

In the Assign Target Systems for Repl. Model/Outb.Impl.: Overview, choose New Entries:



Choose the new Business System and double-click and click Assign Outbound Parameter in the left navigation panel.

In the Assign Outbound Parameter: Overview, choose New entries:



Go to the Define Replication Model and activate.

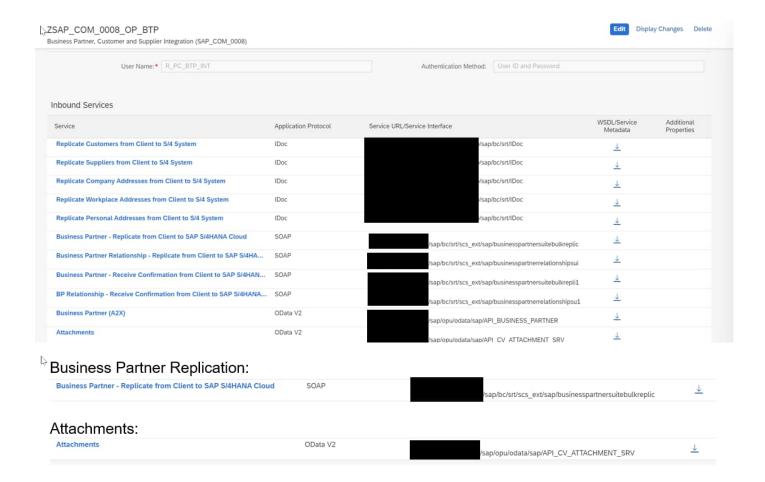
# 6 Configuration steps on S/4HANA Public Cloud

#### 6.1 Communication System

A communication system is a way for the SAP BTP Integration Suite to call standard Business Partner relevant APIs. The hostname is the application URL for the BTP application. This is then secured with OAUTH2 and client credentials for outbound, this is secured with BASIC for inbound.

#### 6.2 Communication Arrangement

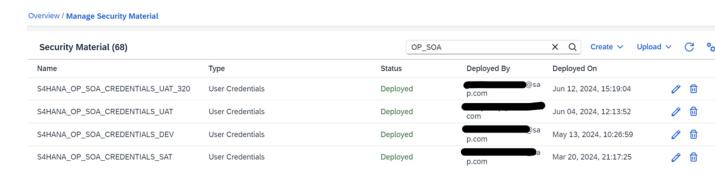
Needs to be set up to link the communication system with the scenario. In this case it will be using the standard communication scenario SAP\_COM\_0008.



# 7 Security and Authentication

#### 7.1 SAP BTP Integration Suite Security Material

SAP BTP Integration Suite will have the following to connect to SAP S/4HANA On-Premise system (depending on which instance – Sandbox, DEV, UAT). These will be referenced in the Integration Flows:



### 7.2 S/4HANA Public Cloud Security

The communication user will need to be created in the S/4HANA Public Cloud. This is then referenced in the ZSAP\_COM\_0179 Communication Arrangement/Communication System.



# 8 Error Handling

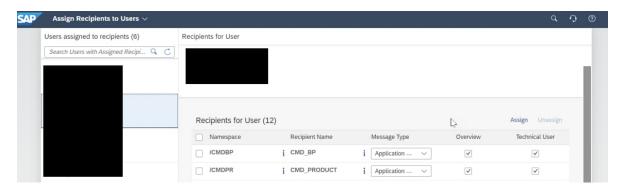
#### 8.1 S/4HANA On-Premise

User can monitor the error log via transaction code SRT\_MONI. Refer to Section 8 for the details of Scheduling the DRF Replication.

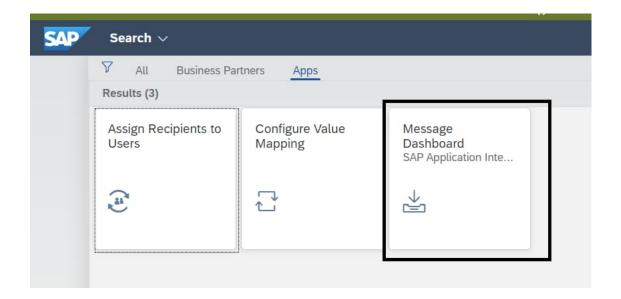
#### 8.2 SAP S/4HANA Public Cloud Interface Monitoring

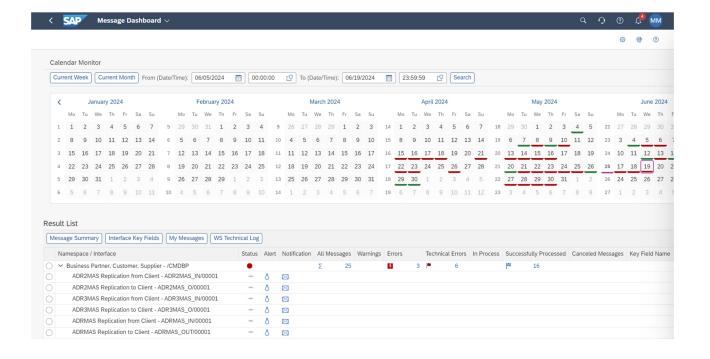
#### AIF Monitor:

Ensure that the user has the following access to AIF Namespace (/FINAC for Financial Accounting) in view "Assign Recipients to Users":



Standard AIF Monitoring can be accessed via the App 'Message Dashboard SAP – Application Interface Framework'





### 9 DRFOUT and Job Scheduling

DRFOUT is the transaction to be used to execute the BP replication to public cloud. There are 2 types of replications using DRFOUT

- Manual replication and
- Scheduled (Automatic) replication

#### 9.1 Manual replication:

Using DRFOUT a replication can be triggered manually. In the following are the initial selection of the DRF screen:



- 1. Select the replication model "PC\_CPI\_BPV"
- 2. Select the outbound implementation as "986\_3"
- 3. Select the replication mode as "Manual"
- 4. If the Manul mode is selected, it is important to select the "manual replication filter criteria"



In the above Manual replication filter criteria, you can use the following filters:

- 5. The BP number
- 6. BP role or Vendor account group or Both
- 7. Company code and
- 8. Pur. Organization to restrict the organization element,

Once all the filters are filled. Pls save the filter criteria and execute the transac

### 9.2 Scheduled (automatic) replication:

The replication can be scheduled in background using DRFOUT transaction.

Pre-requisite for this is maintain the filter criteria using transaction code: DRFF



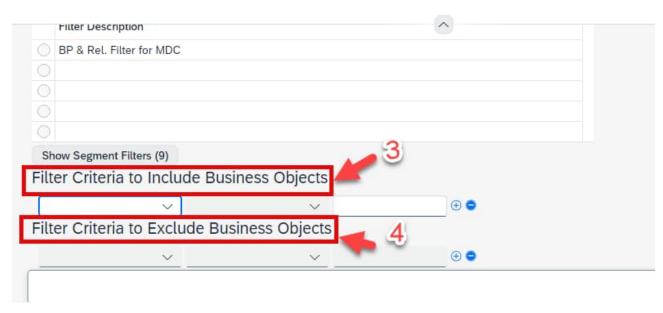


1. Select the replication model and

2. Click on create button to create the filter criteria

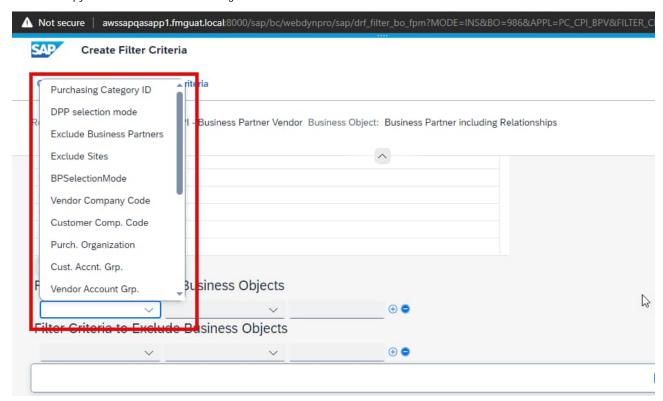


Replication Model: Public Cloud CPI - Business Partner Vendor Business Object: Business Partner including Relationships



In the next screen, you have option to

- 3. Filter Criteria to include the business objects
- 4. Filter Criteria to exclude the business objects
- 5. Copy the filter criteria from existing one.



There are number fields that can be used as filter criteria as combination of one or multiple fields in the filter criteria for include/exclude business objects, list are as follows:

Business partner number

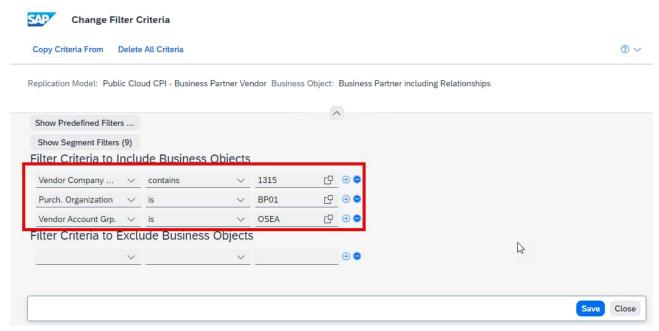
Vendor Company code

**Purchasing Org** 

Vendor account group

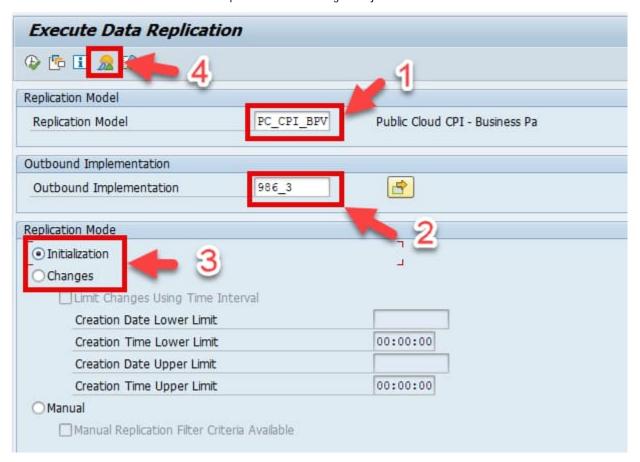
Supplier

BP category etc.



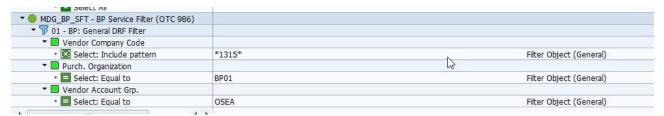
Once the filter criteria are maintained, pls save it.

Once the filter criteria is defined the next step is to schedule back ground jobs for DRFOUT.



In the DRFOUT transaction,

- 1. Select the replication model "PC\_CPI\_BPV"
- 2. Select the outbound implementation as "986\_3
- 3. In the replication mode, there are 2 options 1. Initialization and 2 Changes, Initialization is used to process all the business object as per filter criteria, it is used for initial upload of all existing data and changes can be used where program analyzes all data that was changed since the last change run or since you last performed an initialization. The recommendation is to perform "initialization" once so all the existing data will be replicated and schedule the replication change mode to consider the changes and any new objects created afterward.
- 4. By clicking filter criteria, you can see the filters maintained in DRFF.



Once the selection parameter is maintained, pls go to "Program" and select "Execute in background" to schedule the job accordingly.

