

Configure Workforce Availability Integration Flow

Use

This step describes the settings required to configure the workforce availability integration flow via the CPI Web UI. It's only required if you want to replicate availability data from SAP SuccessFactors to SAP S/4HANA On-Premise/Private Cloud.

While this integration flow can also be used to execute scope mode, we recommend using the dedicated integration flow artifact delivered for this purpose. Refer to "Configure Workforce Availability Integration Flow – Scope Mode" documentation, attached to the same package, for more details.

Procedure

1. Log on to CPI Web UI as an SAP Cloud Integration developer.
2. Select [Design](#) (beneath [Discover](#)) from the top-level menu on the left.
3. You see that the integration package [SAP SuccessFactors Workforce Availability Integration with SAP S/4HANA OnPremise/Private Cloud](#) already exists. Select this integration package and the package content list appears.
4. Choose [Artifacts](#). All artifacts are listed in the lower part of the page.
5. Choose [Configure](#) in the [Actions](#) menu to adapt the configuration for the integration flow [Replicate Workforce Availability to SAP S4HANA PCE](#).
6. On the [Configure: Replicate Workforce Availability to SAP S/4HANA](#) screen, choose the [Timer](#) tab and fill in the following fields:

Field Name	Value	Comment
Start Timer: Normal Mode	StartEvent_4	Keep default
Schedule to Recur	Check	
	Daily Every 1 HR Between 00:00 and 24:00	Recommended frequency: Every one hour
Time Zone		Choose time zone of your preference

7. Choose the [Timer](#) tab and fill in the following fields:

Field Name	Value	Comment
Start Timer: Scope Mode	StartEvent_9748440	Keep default
Run Once	check	

8. Choose the **RECEIVER** tab and select **HTTPReceiverSF_InitialMode** for **Receiver**.

Field Name	Value	Comment
Adapter Type	HTTP	Keep default
Successfactors Link	Enter the base URL of your SAP SuccessFactors system using the https:// syntax.	For example: https://apidemo1.successfactors.com
Authentication	OAuth2 SAML Bearer Assertion	

9. Choose the **RECEIVER** tab and select **HTTPReceiverSF_DeltaMode** for **Receiver**.

Field Name	Value	Comment
Adapter Type	HTTP	Keep default
SuccessfactorsLink	Enter the base URL of your SAP SuccessFactors systems using the https:// syntax.	For example: https://apidemo1.successfactors.com
Authentication	OAuth2 SAML Bearer Assertion	

10. Choose the **RECEIVER** tab and select **HTTPReceiverSF_ScopeModel1** for **Receiver**.

Field Name	Value	Comment
Adapter Type	HTTP	Keep default
SuccessfactorsLink	Enter the base URL of your SAP SuccessFactors system using the https:// syntax.	For example: https://apidemo1.successfactors.com
Authentication	OAuth2 SAML Bearer Assertion	

11. Choose the **RECEIVER** tab and select **SFReceiver_ReadInitialMode** for **Receiver**.

Field Name	Value	Comment
Adapter Type	SuccessFactors	Keep default
Address	Enter the base URL of your SAP SuccessFactors system using the https:// syntax.	For example: https://apidemo1.successfactors.com
Authentication	OAuth2 SAML Bearer Assertion	
Credential Name	Enter the name of the credentials artifact of the SuccessFactors type that you've created during task Create User Credentials on SAP Cloud Integration.	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP SuccessFactors.

12. Choose the **RECEIVER** tab and select **SFReceiver_ReadDelta** for **Receiver**.

Field Name	Value	Comment
Adapter Type	SuccessFactors	Keep default
Address	Enter the base URL of your SAP SuccessFactors system using the https:// syntax.	For example: https://apidemo1.successfactors.com
Authentication	OAuth2 SAML Bearer Assertion	
Credential Name	Enter the name of the credentials artifact of the SuccessFactors type that you've created during task Create User Credentials on SAP Cloud Integration.	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP SuccessFactors.

13. Choose the **RECEIVER** tab and select **SFReceiver_ScopeMode** for **Receiver**.

Field Name	Value	Comment
Adapter Type	SuccessFactors	Keep default
Address	Enter the base URL of your SAP SuccessFactors system using the https:// syntax.	For example: https://apidemo1.successfactors.com
Authentication	OAuth2 SAML Bearer Assertion	
Credential Name	Enter the name of the credentials artifact of the SuccessFactors type that you've created during task Create User Credentials on SAP CPI.	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP SuccessFactors.

14. Choose the **RECEIVER** tab and select **ODataReceiver_S4HANA** for **Receiver**.

Field Name	Value	Comment
Adapter Type	HCIOData	Keep default
S/4HOST	Enter the host name to the SAP S/4HANA system.	For example: https://hostname.s4hana.ondemand.com or https://hostname.domainname.com
S/4PORT	Enter the port number of the SAP S/4HANA OData service for availability replication.	If no port number is available, keep the default value 44300
Proxy Type	Internet or On-Premise	Change the proxy type to <i>On-Premise</i> when connecting to S/4HANA On-Premise system. To connect to Private Cloud environment, keep the default value <i>Internet</i> .
Location ID	Enter the Location ID (ID Created in Cloud Connector)	Only relevant while connecting to SAP S/4HANA On-Premise system.
Authentication	Select the authentication type for the S/4HANA system	
Credential Name	Enter the credential created for S/4HANA system	
Custom Query Options	Enter the SAP S/4HANA On-Premise client. Use syntax: "sap-client=<nnn>"	Replace <nnn> with your SAP S/4HANA On-Premise client.

15. Choose the **RECEIVER** tab and select **HTTP_CloudIntegGetConfig** for **Receiver**.

Field Name	Value	Comment
Adapter Type	HTTP	Keep default
Cloud Integration Link	Enter the base URL of your CPI system	For example: xyz.hana.ondemand.com
Authentication	OAuth2 SAML Bearer Assertion	Keep default
Credential Name	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP CPI.	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP CPI.

16. Choose the **RECEIVER** tab and select **HTTP_CloudIntegChangeConfig** for **Receiver**.

Field Name	Value	Comment
Adapter Type	HTTP	Keep default
Cloud Integration Link	Enter the base URL of your CPI system	For example: xyz.hana.ondemand.com
Authentication	OAuth2 SAML Bearer Assertion	
Credential Name	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP CPI.	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP CPI.

17. Choose the **RECEIVER** tab and select **HTTP_CloudIntegDeployConfig** for **Receiver**.

Field Name	Value	Comment
Adapter Type	HTTP	Keep default
Cloud Integration Link	Enter the base URL of your CPI system	For example: xyz.hana.ondemand.com
Authentication Type	OAuth2 SAML Bearer Assertion	
Credential Name	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP CPI.	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP CPI.

18. Choose the [MORE](#) tab.

Note

Integration flow would be executed in [SCOPE Mode](#) only when parameter [scopeMode](#) is set to [true](#). When [scopeMode](#) parameter is set to [true](#), other filter parameters like [Company_Codes](#) or [Job_Codes](#) would be considered.

Field Name	Value	Comment
Company_Codes	[Optional] Enter company codes separated by commas (without blanks).	Example:1710,1010
Employee_Class	[Optional] Enter Employee Classes separated by commas (without blanks).	
scopeMode	FALSE or TRUE	Enter TRUE to execute integration flow in Scope Mode . Otherwise, the integration flow would be executed in Normal Mode
Employment_Type	[Optional] Enter employment types separated by commas (without blanks).	
Job_Codes	[Optional] Enter Job codes separated by commas (without blanks).	
UserIds	[Optional] Enter user IDs separated by commas (without blanks).	

19. Choose [Save](#).

20. The [Messages](#) screen is displayed. Warnings in this integration flow can be ignored by choosing [Close](#).

21. Choose [Deploy](#).

The [Confirmation](#) screen is displayed.

22. On the [Confirmation](#) screen, choose [Yes](#).

After validation, the [Deployment](#) screen is closed.

23. Choose [OK](#)

Result

The Workforce Availability Integration scenario is configured.

Additional Information

- The integration flow must be manually executed to consider filter parameters at any point of time. For this, the parameter **Scope Mode** must be set to **true**. In addition, timer **Start Timer: Scope Mode** should be **Run Once** while executing Scope Mode manually. Note the scenarios under which the integration flow needs to be triggered manually with the scope mode.
 - After the initial mode of replication of workforce availability data for the set RBP permissions of Company Code, Job Code, Employee Class, and Employee Type (as explained in SAP SuccessFactors documentation); if there is a need to enhance the scope of these filters, then a manual trigger of the integration flow with the filter as the respective enhancing value of one of the four parameters needs to be triggered in **Scope Mode**. After this manual trigger of replication, the next scheduled delta sync will continue to replicate data from next time onwards as before. Also, as a prerequisite, before triggering the integration flow in manual mode, ensure to enhance RBP permissions in SAP SuccessFactors with the new value required for the filter parameters.
 - In case a particular employee's availability replication is erroneous or missing because of any reason, then a manual trigger of the integration flow in **Scope Mode** can be triggered with the respective **UserIds** value as the filter parameter.
- Supported filters for **Scope Mode** are combination of parameters **Company Codes**, **Employee Class**, **Employment Type**, **Job Codes** or **UserIds**. Ensure to use parameter **UserIds** alone and do not combine with any of the other four filter parameters. Otherwise, the integration flow execution would fail at runtime. For all the parameters, enter the values and separate them with commas.
- When the integration flow is executed for the first time, the variable **lastSuccExecTimeStamp** is created based on the latest execution timestamp. Removing the timestamp from **Manage Variables** will again lead to execution of **Initial Mode** once again.