

## 1.1.1 Configuring Employee Availability iFlow

### Use

This step describes the settings required to configure the Workforce Availability iFlow via CPI Web UI. It's only required if you want to replicate Workforce availability data from Success Factors to S/4 Hana.

### Procedure

1. Log on to the 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* 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 iFlow *Replicate Workforce Availability to SAP S4HANA*.
6. On the *Configure: Replicate Workforce Availability to SAP S4HANA* screen, choose the *Timer* tab and fill in the following fields:

Field Name	Value	Comment
<i>Start Timer: Normal Mode</i>	StartEvent_4	Keep default
<i>Schedule to Recur</i>	check	
	Daily	
	Every 1 hr	
	Between 00:00 and 24:00	
<i>Time Zone</i>	(UTC-12:00) GMT-12:00(ETC/GMT+12)	Keep default

7. Choose the *Timer* tab and fill in the following fields:

Field Name	Value	Comment
<i>Start Timer : Scope Mode</i>	StartEvent_9748440	Keep default
<i>Run Once</i>	check	

<i>Time Zone</i>	(UTC-12:00) GMT-12:00(ETC/GMT +12)	Keep default
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8. Choose the *RECEIVER* tab and select *HTTPReceiverSF\_InitialMode* for *Receiver*.

Field Name	Value	Comment
<i>Adapter Type</i>	HTTP	Keep default
<i>Address</i>	Enter the base URL of your SuccessFactors system using the https:// syntax.	For example: <a href="https://apidemo1.successfactors.com">https://apidemo1.successfactors.com</a> .  You've specified this URL already during task <i>Create Communication Systems</i> in SAP S/4HANA Cloud.
<i>Authentication Type</i>	<b>OAuth2 SAML Bearer Assertion</b>	
<i>Credential Name</i>	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP SuccessFactors.	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP SuccessFactors.
<i>Proxy Type</i>	<b>Internet</b>	Keep the default value.
<i>Call Type</i>	<b>Synchronous Query</b>	Keep the default value.
<i>Timeout</i>	1 (default, in min)	

9. Choose the *RECEIVER* tab and select *HTTPReceiverSF\_Delta* for *Receiver*.

Field Name	Value	Comment
<i>Adapter Type</i>	HTTP	Keep default
<i>Address</i>	Enter the base URL of your SuccessFactors system using the https:// syntax.	For example: <a href="https://apidemo1.successfactors.com">https://apidemo1.successfactors.com</a> .  You've specified this URL already during task <i>Create Communication Systems</i> in SAP S/4HANA Cloud.
<i>Authentication Type</i>	<b>OAuth2 SAML Bearer Assertion</b>	
<i>Credential Name</i>	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP SuccessFactors.	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP SuccessFactors.
<i>Proxy Type</i>	<b>Internet</b>	Keep the default value.
<i>Call Type</i>	<b>Synchronous Query</b>	Keep the default value.

<i>Query</i>	<code>\$filter=(lastModifiedDateTime ge '\${property.lastExecTimeStamp<br code="" }')<=""/></code>	Additional query parameters.
<i>Timeout</i>	1 (default, in min)	

10. Choose the *RECEIVER* tab and select *HTTPReceiversF\_ScopeMode1* for *Receiver*.

Field Name	Value	Comment
<i>Adapter Type</i>	HTTP	Keep default
<i>Address</i>	Enter the base URL of your SuccessFactors system using the https:// syntax.	For example: <a href="https://apidemo1.successfactors.com">https://apidemo1.successfactors.com</a> .  You've specified this URL already during task <i>Create Communication Systems</i> in SAP S/4HANA Cloud.
<i>Authentication Type</i>	<b>OAuth2 SAML Bearer Assertion</b>	
<i>Credential Name</i>	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP SuccessFactors.	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP SuccessFactors.
<i>Proxy Type</i>	<b>Internet</b>	Keep the default value.
<i>Call Type</i>	<b>Synchronous Query</b>	Keep the default value.
<i>Query</i>	<code>\$filter=\${property.Query}</code>	Filter query would be dynamically created based on filter parameters at execution time.
<i>Timeout</i>	1 (default, in min)	

11. Choose the *RECEIVER* tab and select *SFReceiver\_ReadInitialMode* for *Receiver*.

Field Name	Value	Comment
<i>Adapter Type</i>	SuccessFactors	Keep default
<i>SAP SuccessFactors Data Center</i>	Other	It isn't relevant which value is entered here.
<i>Address</i>	Enter the base URL of your SuccessFactors system using the https:// syntax.	For example: <a href="https://apidemo1.successfactors.com">https://apidemo1.successfactors.com</a> .  You've specified this URL already during the task <i>Create Communication Systems</i> in SAP S/4HANA Cloud.

<i>Address Suffix</i>	/odata/v2/restricted/_WorkforceAvailabilityService	Keep default
<i>Authentication Type</i>	<b>OAuth2 SAML Bearer Assertion</b>	
<i>Credential Name</i>	Enter the name of the credentials artifact of the SuccessFactors type that you've created during task <i>Create UserCredentials on SAP CPI</i> .	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP SuccessFactors.
<i>Timeout</i>	<b>10</b> (default, in min)	Can be set to a higher value to avoid timeout issues.

12. Choose the **RECEIVER** tab and select *SFReceiver\_ReadDelta* for **Receiver**.

Field Name	Value	Comment
<i>Adapter Type</i>	SuccessFactors	Keep default
<i>SAP SuccessFactors Data Center</i>	Other	It isn't relevant which value is entered here.
<i>Address</i>	Enter the base URL of your SuccessFactors system using the https:// syntax.	For example: <b>https://apidemo1.successfactors.com</b> .  You've specified this URL already during the task <i>Create Communication Systems</i> in SAP S/4HANA Cloud.
<i>Address Suffix</i>	/odata/v2/restricted/_WorkforceAvailabilityService	Keep default
<i>Authentication Type</i>	<b>OAuth2 SAML Bearer Assertion</b>	
<i>Credential Name</i>	Enter the name of the credentials artifact of the SuccessFactors type that you've created during task <i>Create UserCredentials on SAP CPI</i> .	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP SuccessFactors.
<i>Timeout</i>	<b>10</b> (default, in min)	Can be set to a higher value to avoid timeout issues.

13. Choose the **RECEIVER** tab and select *SFReceiver\_ScopeMode* for **Receiver**.

Field Name	Value	Comment
<i>Adapter Type</i>	SuccessFactors	Keep default

<i>SAP SuccessFactors Data Center</i>	Other	It isn't relevant which value is entered here.
<i>Address</i>	Enter the base URL of your SuccessFactors system using the https:// syntax.	For example: <b>https://apidemo1.successfactors.com</b> .  You've specified this URL already during the task <i>Create Communication Systems</i> in SAP S/4HANA Cloud.
<i>Address Suffix</i>	/odata/v2/restricted/_WorkforceAvailabilityService	Keep default
<i>Authentication Type</i>	<b>OAuth2 SAML Bearer Assertion</b>	
<i>Credential Name</i>	Enter the name of the credentials artifact of the SuccessFactors type that you've created during task <i>Create UserCredentials on SAP CPI</i> .	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP SuccessFactors.
<i>Timeout</i>	<b>10</b> (default, in min)	Can be set to a higher value to avoid timeout issues.

14. On the *RECEIVER* tab, select *ODataReceiver\_S4HANA* for *Receiver*.

Field Name	Value	Comment
<i>Adapter Type</i>	HCIOData	Keep default
<i>Address</i>	Enter the URL to the SAP S/4HANA OData service for availability replication.	For example: <b>https://my123456-api.s4hana.ondemand.com/sap/opu/odata/SHCM/API_MANAGE_WF_AVAILABILITY</b> .  Here, replace the URL https://my123456-api.s4hana.ondemand.com with the SAP S/4HANA API URL value you've obtained during task <i>Create Communication Arrangement SAP_COM_0914</i> on SAP S/4HANA Cloud or URL created in Cloud Connector for On Premise
<i>Proxy Type</i>	Internet	Keep default, change the proxy type only when connecting to On Premise System
<i>Location ID</i>	Enter the Location ID (ID Created in Cloud Connector)	Only relevant while connecting for On Premise System.
<i>AuthenticationType</i>	Client certificate	Keep default

<i>Private Key Alias</i>	Enter CPI client certificate alias	For example, <b>hoicertificate</b> .  Please refer to task <i>Get CPI Private Key Alias from CPI Tenant Keystore</i> . If you have chosen basic authentication, instead enter the symbolic name of the credentials artifacts of the default type that you've created.
<i>Resource Path</i>	Don't change	Keep default
<i>Fields</i>	Don't change	Keep default
<i>Enable Batch Processing</i>	selected	Keep default
<i>Custom Query Options</i>	Enter the client for OP Syntax : "sap-client=001"	
<i>Content Type</i>	Atom	Keep default
<i>Content Type Encoding</i>	UTF-8	Keep default
<i>Timeout (in min)</i>	<b>5 min</b> (default)	Can be set to a higher value to avoid timeout issues.

15. Choose the **RECEIVER** tab and select **HTTP\_CloudIntegGetConfig** for **Receiver**.

Field Name	Value	Comment
<i>Adapter Type</i>	HTTP	Keep default
<i>Address</i>	Enter the base URL of your CPI system.  Kindly note https:// is prefilled	For example: <b>https://xyz.hana.ondemand.com</b>
<i>Authentication Type</i>	<b>OAuth2 SAML Bearer Assertion</b>	
<i>Credential Name</i>	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP CPI.	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP CPI.
<i>Proxy Type</i>	<b>Internet</b>	Keep the default value.
<i>Call Type</i>	<b>Synchronous Query</b>	Keep the default value.
<i>Timeout</i>	<b>1</b> (default, in min)	

16. Choose the **RECEIVER** tab and select **HTTP\_CloudIntegChangeConfig** for **Receiver**.

Field Name	Value	Comment
<i>Adapter Type</i>	HTTP	Keep default

<b>Address</b>	Enter the base URL of your CPI system. Kindly note https:// is prefilled	For example: <a href="https://xyz.hana.ondemand.com">https://xyz.hana.ondemand.com</a>
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<b>Authentication Type</b>	<b>OAuth2 SAML Bearer Assertion</b>	
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<b>Credential Name</b>	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP CPI.	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP CPI.
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<b>Proxy Type</b>	<b>Internet</b>	Keep the default value.
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<b>Call Type</b>	<b>Synchronous Query</b>	Keep the default value.
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<b>Timeout</b>	<b>1</b> (default, in min)	
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17. Choose the **RECEIVER** tab and select **HTTP\_CloudIntegDeployConfig** for **Receiver**.

Field Name	Value	Comment
<b>Adapter Type</b>	HTTP	Keep default
<b>Address</b>	Enter the base URL of your CPI system. Kindly note https:// is prefilled	For example: <a href="https://xyz.hana.ondemand.com">https://xyz.hana.ondemand.com</a>

<b>Authentication Type</b>	<b>OAuth2 SAML Bearer Assertion</b>	
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<b>Credential Name</b>	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP CPI.	Enter the alias created for OAuth2 SAML Bearer Assertion for SAP CPI.
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<b>Proxy Type</b>	<b>Internet</b>	Keep the default value.
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<b>Call Type</b>	<b>Synchronous Query</b>	Keep the default value.
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<b>Timeout</b>	<b>1</b> (default, in min)	
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18. Choose the **MORE** tab.

NOTE: IFlow would be executed in SCOPE Mode only when parameter “scopeMode” is set to “true” and when scopeMode parameter is set to true then only other filter parameters like “Company\_Codes”, “Job\_Codes” would be considered. For normal mode none of the filter parameters are considered.

Field Name	Value	Comment
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<i>Company_Codes</i>	Enter company codes separated by commas (without blanks).	Example:1710,1010
<i>EMPLOYEE_CLASS</i>	Enter Employee Classes separated by commas (without blanks).	
<i>scopeMode</i>	<b>FALSE</b> or <b>TRUE</b>	Enter true to execute iflow in “Scope Mode” else iflow would be executed in Normal Mode
<i>Employment_Type</i>	Enter employment types separated by commas (without blanks).	
<i>Job_Codes</i>	Enter Job codes separated by commas (without blanks).	
<i>UserIds</i>	Enter User Ids separated by commas (without blanks).	Example:AVAILTST11

19. Choose *Save*.
20. The *Messages* screen is displayed. Errors or warning 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 a view minutes of validation, the *Deployment* screen is closed.
23. Choose *OK*.

## Result



The Workforce Availability Integration scenario is configured.