

# Configure Workforce Availability Integration Package

## Use

This step describes the settings required to configure the Workforce Availability integration package via the Cloud Integration Web UI. It's required only if you want to replicate availability data from SAP SuccessFactors to SAP S/4HANA Cloud.

## Procedure

1. Log on to SAP Cloud Integration Web UI as a developer.
2. Select **Design** (beneath **Discover**) from the top-level menu on the left.
3. You see that the integration package **SAP SuccessFactors – Employee Availability Integration with SAP S/4HANA Cloud** already exists. Select this integration package and the package content list appears.
4. Choose **Artifacts**. All artifacts are listed below. There are four artifacts in this integration package.

Artifact type	Artifact name
Integration Flow	Replicate Workforce Availability to SAP S4HANA
Integration Flow	Replicate Workforce Availability to SAP S4HANA – Scope Mode
Integration Flow	Subprocess – Transfer Workforce Availability Records
Script Collection	Scripts for Replication of Workforce Availability Data

5. Choose **Deploy** in the **Actions** menu to adapt the configuration for the script collection **Scripts for Replication of Workforce Availability Data**.

The **Confirmation** is displayed.

6. Choose **Configure** in the **Actions** menu to adapt the configuration for the integration flow **Subprocess – Transfer Workforce Availability Records**.

7. On the **Configure “Subprocess – Transfer Workforce Availability Records”** screen, choose the **Sender** tab and fill in the following fields.

Field Name	Value	Comment
<b>Connection: Address</b>	/transferWorkforceAvailabilityRecords	Keep default

8. Choose the **Receiver** tab and select **S4HANA** for **Receiver**, **HCIOData** for **Adapter Type**, then fill in the following fields.

Field Name	Value	Comment
<b>Connection: Address</b>	Enter the URL to the SAP S/4HANA OData service for availability replication.	For example: https://my123456-api.s4hana.ondemand.com/sap/opu/odata/sap/API_WORKFORCEAVAILABILITY.  Here, replace the URL https://my123456-api.s4hana.ondemand.com with the SAP S/4HANA API URL value you've obtained during task Create Communication Arrangement SAP_COM_0914 on SAP S/4HANA Cloud.
<b>Connection: Authentication</b>	Select the authentication type for the S/4HANA system	
<b>Connection: Credential Name</b>	Enter the security material created for S/4HANA system	
<b>Connection: Private Key Alias</b>	Enter the credential created for S/4HANA system (in case of <b>Client Certificate</b> )	

Field Name	Value	Comment
	as <b>Authentication</b> mechanism)	
<b>Processing: Custom Query Options</b>	Enter custom query parameters, if needed	

9. Select **SuccessFactors** for **Receiver**, **HTTP** for **Adapter Type**, then fill in the following fields.

Field Name	Value	Comment
<b>Connection: SF_Hostname</b>	Enter the base URL of your SAP SuccessFactors system using the https:// syntax.	For example: https://apidemo1.successfactors.com.  You've specified this URL already during the task <i>Create Communication Systems</i> in SAP S/4HANA Cloud.
<b>Connection: Authentication</b>	Select the authentication type for the SuccessFactors system	
<b>Connection: Credential Name</b>	Enter the security material created for SuccessFactors system	

10. Choose **Save**.
11. The **Messages** screen is displayed. Errors or warning in this integration flow can be ignored by choosing **Close**.
12. Choose **Deploy**.

The **Confirmation** screen is displayed.

13. On the **Confirmation** screen, choose **Yes**.

After validation, the **Deployment** screen is closed.

14. Choose **OK**.

15. Choose **Configure** in the **Actions** menu to adapt the configuration for the integration flow **Replicate Workforce Availability to SAP S4HANA**.

16. Choose the **Timer** tab, **StartEvent\_9748551** for **Timer** and fill in the following fields.

Field Name	Value	Comment
<b>Schedule to Recur</b>	check	Choose and configure the desired timer frequency

17. Choose the **Receiver** tab and select **Subprocess** for **Receiver**, **ProcessDirect** for **Adapter Type**, then fill in the following fields.

Field Name	Value	Comment
<b>Conection: Address</b>	/transferWorkforceAvailabilityRecords	Keep the same value, as in step 7.

18. Choose the **More** tab and fill in the following fields:

**NOTE:** In this tab, the filter values for reading the Workforce Availability records in SAP SuccessFactors need to be provided.

Field Name	Value	Comment
<b>Company_Codes</b>	Enter company codes separated by commas.	For example: 1010, 1710
<b>Employee_Classes</b>	Enter employee classes separated by commas.	For example: A_US, B_DE, C_JP
<b>Employment_Types</b>	Enter employment types separated by commas.	

Field Name	Value	Comment
<b>Job_Codes</b>	Enter job codes separated by commas.	

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 validation, the **Deployment** screen is closed.

23. Choose **OK**.

24. Choose **Configure** in the **Actions** menu to adapt the configuration for the integration flow **Replicate Workforce Availability to SAP S4HANA – Scope Mode**.

**NOTE:** This integration flow (steps 24-31) needs to be configured and deployed only for delivering the filtered records of Workforce Availability from SAP SuccessFactors on demand. It cannot be configured to be run periodically. Please, use **Replicate Workforce Availability to SAP S4HANA** integration flow (steps 15-23) for running the replication periodically.

25. Choose the **Receiver** tab and select **Subprocess** for **Receiver**, **ProcessDirect** for **Adapter Type**, then fill in the following fields:

Field Name	Value	Comment
<b>Conection: Address</b>	/transferWorkforceAvailabilityRecords	Keep the same value, as in step 7.

26. Choose the **More** tab and fill in the following fields:

**NOTE:** In this tab, the filter values for reading the Workforce Availability records in SAP SuccessFactors need to be provided. You can provide either **Job\_Codes** or **Work\_Assignments**.

Field Name	Value	Comment
<b>Job_Codes</b>	Enter job codes separated by commas.	
<b>Work_Assignments</b>	Enter work assignments separated by commas.	

27. Choose **Save**.

28. The **Messages** screen is displayed. Errors or warning in this integration flow can be ignored by choosing **Close**.

29. Choose **Deploy**.

The **Confirmation** screen is displayed.

30. On the **Confirmation** screen, choose **Yes**.

After validation, the **Deployment** screen is closed.

31. Choose **OK**

## Result

The Employee Availability integration scenario is configured.

## Additional Information

- If an employee's availability replication is erroneous or missing, it is recommended to trigger the integration flow **Replicate Workforce Availability to SAP S4HANA – Scope Mode** manually with the respective **Work\_Assignments** value as the filter parameter.
- Supported filters for **Replicate Workforce Availability to SAP S4HANA** are the combination of parameters **Company Codes**, **Employee Class**, **Employment Type**, **Job Codes**.  
The **Work\_Assignments** parameter in **Replicate Workforce Availability to SAP S4HANA – Scope Mode** provides the availability data of a individual employee. Ensure to provide at least one filter parameter for **Replicate Workforce Availability to SAP S4HANA – Scope Mode**, otherwise

integration flow will fail. Use the filter parameter **Work\_Assignments** alone and do not combine it with the **Job\_Codes** filter parameter.

- When the **Replicate Workforce Availability to SAP S4HANA** integration flow is executed for the first time, the variable **recentSuccessfulExecutionTimestamp** is created based on the latest execution timestamp. All further executions of **Replicate Workforce Availability to SAP S4HANA** will be in delta mode, that is, only the records changed after the recent successful execution will be replicated. Removing the **recentSuccessfulExecutionTimestamp** variable from **Manage Variables** will lead to execution of integration flow **Replicate Workforce Availability to SAP S4HANA** in initial mode again.

The **Replicate Workforce Availability to SAP S4HANA – Scope Mode** integration flow is always executed in initial mode, that is, it does not take into account the **recentSuccessfulExecutionTimestamp** variable.

## Related Information

[https://api.sap.com/integrationflow/Replicate\\_Workforce\\_Availability\\_to\\_SAP\\_S4HAN](https://api.sap.com/integrationflow/Replicate_Workforce_Availability_to_SAP_S4HAN)

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