



# Employee Central to Exchange

Integration Guide Time-off Data Migration

Version 1.2

## Document Control

Document ID	SAP SuccessFactors - Exchange - Time Off Data Migration
Document Owner	Product Cloud Integrations Team
Distribution	Strada Enterprise Products Community
Issue Date	November 2024
Last Saved Date	November 2024

## Version Control

Version	Description	Release Date
1.0	Initial version	November 2022
1.1	Updates on selection parameters	December 2023
1.2	Rebrand to Strada	November 2024

## Summary of Changes

Item Number	Change Description	Chapter/Section
1.0	Initial version	All Sections
1.1	Updates on selection parameters	Section 2.1
1.2	Rebrand to Strada	All

## Introduction

This document is a guide for users on how to implement **Packaged Integration - SF EC Time-off DM to Exchange** in the customer Cloud Integration tenant. The person performing the steps must have access to Cloud Integration and be familiar with the configuration.

## Related documents

All related documents can be found in [Strada Help Center](#).

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# Table of Contents

Table of Contents	4
1 Introduction	5
2 Time-off Data Migration	6
2.1 Integration flow Configuration Time-off DM	6
2.2 Data Store	9
2.3 Data Store Clean-Up	12

# 1 Introduction

This implementation document will guide a customer who wants to implement the Packaged Integration - SF EC Time-off DM to Exchange in their Cloud Integration tenant.

As of Exchange release 19.0 the integration package now supports data migration of time-off data from SuccessFactors Employee Central to Exchange. A dedicated integration flow is delivered to handle time-off data migration to Exchange for customers already live in SuccessFactors Employee Central. This would reduce significantly unwanted time-off data receive by the payroll partner. Currently, the only option to migrate is using the existing time off BAU/delta integration with the limitation that it can only extract data based on the last execution timestamp without the flexibility to filter data extraction.

Configure "Package Integration - SF EC Time-off DM to hrX Exchange"

Timer Receiver **More**

Type: All Parameters

Enable AS2:

From Date: 2021-01-01T00:00:00.000Z

GlobalCustomerCode: Z01

IsEmailEnabled: 1

PayGroup:

PayloadLogging: 1

Test Mode:

timeType:

To Date: 2021-01-31T00:00:00.000Z

UserId: E00013303

From Date and To Date parameters allows flexibility to filter data extraction based on time-off record's start and end date

---

Package Integration - SF EC Time-off DM to hrX Exchange  
Last Updated at: Mar 24, 2021, 14:37:27

Status Properties Logs Attachments Artifact Details

Message processing completed successfully.

Processing Time: 2 sec 754 ms

Properties

Message ID: AGBa3fRxCfRYt6UsacXZpLqame1  
Correlation ID: AGBa3fGOTb63Yf5Qtrpn8ZLOAtUJ5  
Receiver: HXRReceiver\_SOAP

COMPANY/ADDRESS	PAY GROUP	EMPLOYEE	EVENT	STATUS	SENT DATE	LAST MODIFIED	TIME OFF
NewCorp United States	W001 A2 (2)	Kent Washington (E0002235 / 30001910)	Date Change	Success	24/03/2021 08:27	24/03/2021 08:27	WorkDay
NewCorp United States	W001 A2 (2)	Ruby Young (E0001289 / 30001910)	Date Change	Success	24/03/2021 08:27	24/03/2021 08:27	WorkDay
NewCorp United States	W001 A2 (2)	Sanity Test (E00013303 / 30001910)	Date Change	Success	24/03/2021 08:27	24/03/2021 08:27	WorkDay

Time element BODs generated in Exchange

**Data Change for Kent Washington (E00002356):**  
24-Mar-2021

Add

**Time Element**

Start Date: 05-Jan-2021  
End Date: 05-Jan-2021  
Units: 1  
Unit Type: DAYS  
Id: SICKNESS

**Payroll and comments**

**Data Change for Ruby Young (E0001289):**  
24-Mar-2021

Add

**Time Element**

Start Date: 07-Jan-2021  
End Date: 07-Jan-2021  
Units: 1  
Unit Type: SICKNESS  
Id: SICKNESS

**Time Element**

Start Date: 08-Jan-2021  
End Date: 08-Jan-2021  
Units: 1  
Unit Type: SICKNESS  
Id: SICKNESS

**Time Element**

Start Date: 09-Jan-2021  
End Date: 09-Jan-2021  
Units: 1  
Unit Type: SICKNESS  
Id: SICKNESS

**Payroll and comments**

**Data Change for Sanity Test (E00013303):**  
24-Mar-2021

Add

**Time Element**

Start Date: 06-Jan-2021  
End Date: 06-Jan-2021  
Units: 1  
Unit Type: VACATION  
Id: VACATION

**Time Element**

Start Date: 07-Jan-2021  
End Date: 07-Jan-2021  
Units: 1  
Unit Type: SICKNESS  
Id: SICKNESS

**Time Element**

Start Date: 08-Jan-2021  
End Date: 08-Jan-2021  
Units: 1  
Unit Type: VACATION  
Id: VACATION

**Time Element**

Start Date: 09-Jan-2021  
End Date: 09-Jan-2021  
Units: 1  
Unit Type: VACATION  
Id: VACATION

**Payroll and comments**



# 2 Time-off Data Migration

## 2.1 Integration flow Configuration Time-off DM

There is a dedicated artifact for time-off data migration introduced together with the standard package.

- Packaged Integration - SF EC Time-off DM to Exchange**  
Support time-off (absences) Data Migration from Employee Central to Exchange Modified Integration Flow 24.11.0 

### **Packaged Integration - SF EC Time-off DM to Exchange**– Support time-off (absences) Data Migration from Employee Central to Exchange

➤ Parameters

1. **Timer Tab**

Configure "Packaged Integration - SF EC Time-off DM to Exchange"

Timer Receiver More

Timer: Start Event [StartEvent\_2] ▼

Run Once

Schedule on Day

Schedule to Recur

2. **Receiver Tab** is the Configuration of SF Instance and Exchange webservice.

Configure "Packaged Integration - SF EC Time-off DM to Exchange"

Timer Receiver More

Receiver: SFReceiver ▼

Adapter Type: SuccessFactors ▼

Connection

Address: https://<SFAPI end point url>

Authentication: Basic ▼

Credential Name: <SuccessFactors EC Credentials>

Processing

Timeout (in min): 5

Configure "Packaged Integration - SF EC Time-off DM to Exchange"

Timer **Receiver** More

Receiver: HrXReceiver

Adapter Type: SOAP

Connection

Address: https://<end point url>

Credential Name: <Web Service Credentials>

Timeout (in ms): 24000

3. **More** Tab is the Selection Screen of the Integration Flow

Configure "Packaged Integration - SF EC Time-off DM to Exchange"

Timer Receiver **More**

Type: All Parameters

Company:

Enable AS2: <Enter 1 to Enable AS2 else 0 for Webservice Call>

From Date: <YYYY-MM-DDTHH:MM:SS:sssZ for\_example 2014-11-04T05:01:29.000Z>

GlobalCustomerCode: <Global Customer Code>

IsEmailEnabled: <Enter 1 to enable mail else 0>

Load to Data Store: <Enter 1 to Load/Append to Data Store else 0>

PayGroup:

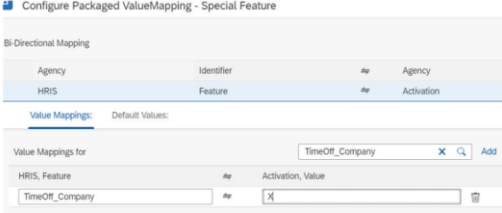
PayLoadLogging: <Enter 1 to view payload else 0>

Test Mode: <Enter 1 to avoid sending to hrx else 0>

timeType:

To Date: <YYYY-MM-DDTHH:MM:SS:sssZ for\_example 2014-11-04T05:01:29.000Z>

UserId:

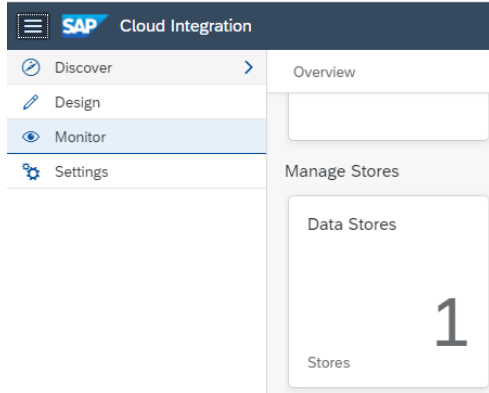
Parameter	Explanation	Default	Mandatory
Company	<p>Company value of the employee to be send to Exchange. The filtering is configurable:</p> 	None	No

Enable AS2	1 for AS2 and 0 for Webservice Call	0	Yes
From Date	Effective Date of the TimeOff Record, if no value in the To Date parameter, it means the query will only get TimeOff records included in the From Date month.	None	Yes
GlobalCustomerCode	GCC of Exchange Environment	None, provided by Strada	Yes
IsEmailEnabled	1 to enable email else 0	0	
Load to Data Store	Option to Save Records in Data Store	0	No
Paygroup	Paygroup value of the employee to be send in Exchange	None	No
PayLoadLogging	When you wanted to download a copy of the records in EC when set to 1 and will be available as Attachment in the Monitor View	0	No
Test Mode	If enabled (1), it will not send record in Exchange	0	Yes
timeType	Employee Time Type. This acts as a filter	No ne	No
To Date	Effective End Date of the TimeOff Record	None	No
Userld	Employee IDs separated by comma to filter on. <i>Note: If the Userld is populated, it will trigger debug mode = true and the last modified on will not updated.</i>	None	No

## 2.2 Data Store

Data Store is created upon execution of Data Migration for Time Off when the parameter to load data store is enabled. Data Store in Cloud Integration serves as a placeholder or a database of the old time-off records to determine if they have changed/corrected.

Data Store can be view under Monitor->Manage Stores->Data Stores

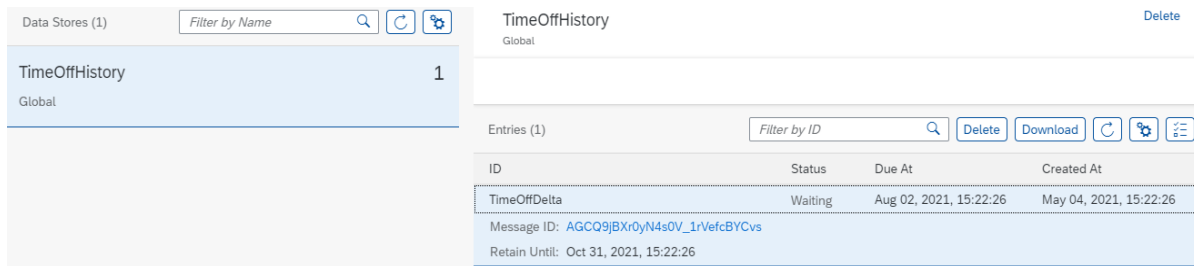


### Data Store Details

Name: **TimeOffHistory**

ID: **TimeOffDelta**

Data stores can be manually deleted or downloaded.

The screenshot shows the details of a data store named 'TimeOffHistory' (Global). On the left, a list shows 'TimeOffHistory' with a count of '1'. The main area displays the store's details and a table of entries. The table has columns for ID, Status, Due At, and Created At. One entry is shown with ID 'TimeOffDelta', Status 'Waiting', Due At 'Aug 02, 2021, 15:22:26', and Created At 'May 04, 2021, 15:22:26'. Below the table, the message ID is 'AGCQ9jBxR0yN4s0V\_1rVefcBYCvs' and the retain until date is 'Oct 31, 2021, 15:22:26'.

ID	Status	Due At	Created At
TimeOffDelta	Waiting	Aug 02, 2021, 15:22:26	May 04, 2021, 15:22:26

## Sample Execution

- Run DM TimeOff Iflow

Configure "Package Integration - SF EC Time-off DM to hrX Exchange"

Timer   Receiver   **More**

Type:	All Parameters
Enable AS2:	
From Date:	2021-04-01T00:00:00.000Z
GlobalCustomerCode:	Z01
IsEmailEnabled:	1
Load Time Off History:	1
PayGroup:	
PayLoadLogging:	1
Test Mode:	1
timeType:	
To Date:	2021-05-04T00:00:00.000Z
UserId:	

- View the Message

Messages (8)   <<   <   1 / 1   >   >>   ↻

Artifact Name	Status
Package Integration - SF EC Time-off DM to hrX Exchange May 04, 2021, 15:22:26	Completed 2 sec 833 ms

- Sample Attachment

Package Integration - SF EC Time-off DM to hrX Exchange  
Last Updated at: May 04, 2021, 15:22:26

Status   Properties   Logs   **Attachments**   Artifact Details

Attachments

Name	Modified At	Size	Actions
ResponsePayload: text/plain	May 04, 2021, 15:22:26	16 KB	↓

```

MessageLog-Packaged_Integration_-_SF_EC_Time-off_to_hrX_Exchange_19.0-attachment_1-(Untitled) (3) - Notepad
File Edit Format View Help
<EmployeeTime>
<gcc>Z01</gcc>
<MessageId>AGCQ9jBXR0yN4s0V_1rVefcBYCvs</MessageId>
<iVersion>19.0</iVersion>
<EmployeeTime>
  <approvalStatus>APPROVED</approvalStatus>
  <timeCalendar>
    <EmployeeTimeCalendar>
      <date>2021-04-03T00:00:00.000</date>
      <quantityInHours>8</quantityInHours>
      <quantityInDays>1</quantityInDays>
    </EmployeeTimeCalendar>
  </timeCalendar>
  <userIdNav>
    <User>
      <empInfo>
        <EmpEmployment>
          <personIdExternal>E00000042</personIdExternal>
        </EmpEmployment>
      </empInfo>
    </User>
  </userIdNav>
  <lastModifiedDateTime>2021-03-23T09:08:39.000</lastModifiedDateTime>
  <externalCode>6488e1570c244d7aa27e30ff9909a713</externalCode>
  <endDate>2021-04-03T00:00:00.000</endDate>
  <quantityInHours>8</quantityInHours>
  <quantityInDays>1</quantityInDays>
  <timeType>SICKNESS</timeType>
  <comment/>

```

- Sample Data Store Created

```

<EmployeeTimeHistory>
  <EmployeeTime>
  <EmployeeTime>
  <EmployeeTime>
  <EmployeeTime>
  <EmployeeTime>
  <EmployeeTime>
  <EmployeeTime>
  <EmployeeTime>
  <EmployeeTime>
  <approvalStatus>APPROVED</approvalStatus>
  <timeCalendar>
    <EmployeeTimeCalendar>
      <date>2021-04-06T00:00:00.000</date>
      <quantityInHours>8</quantityInHours>
      <quantityInDays>1</quantityInDays>
    </EmployeeTimeCalendar>
  </timeCalendar>
  <userIdNav>
    <User>
      <empInfo>
        <EmpEmployment>
          <personIdExternal>E00013446</personIdExternal>
        </EmpEmployment>
      </empInfo>
    </User>
  </userIdNav>
  <lastModifiedDateTime>2021-04-26T05:52:49.000</lastModifiedDateTime>
  <externalCode>a62d89dc53384193803aafdb20daf166</externalCode>
  <endDate>2021-04-06T00:00:00.000</endDate>
  <quantityInHours>8</quantityInHours>
  <quantityInDays>1</quantityInDays>
  <timeType>SICKNESS</timeType>
  <comment/>
  <userId>E00013446</userId>
  <startDate>2021-04-05T00:00:00.000</startDate>
</EmployeeTime>

```

## 2.3 Data Store Clean-Up

There is a dedicated artifact for time-off data store clean up introduced together with the standard package. This is a tool to ensure that we remove the no longer relevant absence records to avoid the threshold for data store is reached and essentially avoid the time-off integration failing. The recommended frequency of running the clean-up depends on when the time account is closed which means an absence record is no longer allowed to be edited/modified. In consideration of the 32GB limit on data store from SAP our recommended best practice is to clean-up/remove absence records 2 years older.

**Packaged Integration - SF EC Time-off Data Store Clean Up**  
Tool to clean up records of Data Store in Cloud Integration Modified

Integration Flow 24.11.0 

### Packaged Integration - SF EC Time-off Data Store Clean Up– Tool to clean up records of Data Store in Cloud Integration

- Parameters
  1. Timer

#### Configure "Packaged Integration - SF EC Time-off Data Store Clean Up"

**Timer** More

Timer:

Run Once  
 Schedule on Day  
 Schedule to Recur

2. More

Timer **More**

Type:

CleanUp Months:

Data Store Name:

Entry ID:

External Code:

User ID:

- CleanUp Months – Indicate # of Months and minus from current date and compare to effective end date. If effective end date less than the current date minus clean up months, then remove the data in data store.

For example:

Current date: May 4, 2021

CleanUp Months: 3months

Computation (May 4, 2021 – 3months) > EmployeeTime-endDate

- Data Store Name – default to TimeOffHistory
- Entry ID – default to TimeOffDelta
- External Code – Filter to delete the externalCode
- User ID – Filter to delete the userId

\*The parameter CleanUp Months takes precedence in the logic. If populated filter to External Code and User ID is ignored. If leave blank, then External Code and User ID are considered as filtering conditions.

- **Sample Execution**

- Run the Iflow with 1 Month CleanUp

Timer **More**

Type:	All Parameters
CleanUp Months:	1
Data Store Name:	TimeOffHistory
Entry ID:	TimeOffDelta
External Code:	
User ID:	

o Data Store Before CleanUp 33 records in Data Store

EmployeeTimeHistory\_before\_cleanup.xml

```

1 <EmployeeTimeHistory>
2   <EmployeeTime>
40  <EmployeeTime>
78  <EmployeeTime>
116 <EmployeeTime>
184 <EmployeeTime>
212 <EmployeeTime>
280 <EmployeeTime>
313 <EmployeeTime>
346 <EmployeeTime>
374 <EmployeeTime>
412 <EmployeeTime>
450 <EmployeeTime>
498 <EmployeeTime>
541 <EmployeeTime>
579 <EmployeeTime>
647 <EmployeeTime>
675 <EmployeeTime>
743 <EmployeeTime>
765 <EmployeeTime>
787 <EmployeeTime>
820 <EmployeeTime>
853 <EmployeeTime>
891 <EmployeeTime>
914 <EmployeeTime>
942 <EmployeeTime>
964 <EmployeeTime>
997 <EmployeeTime>
1019 <EmployeeTime>
1047 <EmployeeTime>
1069 <EmployeeTime>
1083 <EmployeeTime>
1108 <EmployeeTime>
1141 <EmployeeTime>
1142   <approvalStatus>APPROVED</approvalStatus>
1143   <timeCalendar/>
1144   <userIdNav/>
1145   <lastModifiedDateTime>2021-05-03T09:56:24.000</lastModifiedDateTime>
1146   <externalCode>365cae7fc7344251a93e6a3e39d9baac</externalCode>
1147   <endDate>2021-05-04T00:00:00.000</endDate>
1148   <quantityInHours>8</quantityInHours>
1149   <quantityInDays>1</quantityInDays>
1150   <timeType>CSFAMUP</timeType>
1151   <comment/>
1152   <userId>E00013455</userId>
1153   <startDate>2021-05-03T00:00:00.000</startDate>
1154 </EmployeeTime>
1155 </EmployeeTimeHistory>

```

Find dialog box: Find what: EmployeeTime, Count: 33 matches in entire file.

o Data Store After CleanUp. Only 13 Records in the Data Store.

Packaged Integration - SF EC  
Data Store Clean Up  
May 04, 2021, 17:27:59  
Completed  
257 ms

EmployeeTimeHistory\_after\_cleanup.xml

```

1 <EmployeeTimeHistory>
2   <EmployeeTime>
40  <EmployeeTime>
78  <EmployeeTime>
111 <EmployeeTime>
139 <EmployeeTime>
167 <EmployeeTime>
189 <EmployeeTime>
222 <EmployeeTime>
250 <EmployeeTime>
272 <EmployeeTime>
286 <EmployeeTime>
311 <EmployeeTime>
344 <EmployeeTime>
345   <approvalStatus>APPROVED</approvalStatus>
346   <timeCalendar/>
347   <userIdNav/>
348   <lastModifiedDateTime>2021-05-03T09:56:24.000</lastModifiedDateTime>
349   <externalCode>365cae7fc7344251a93e6a3e39d9baac</externalCode>
350   <endDate>2021-05-04T00:00:00.000</endDate>
351   <quantityInHours>8</quantityInHours>
352   <quantityInDays>1</quantityInDays>
353   <timeType>CSFAMUP</timeType>
354   <comment/>
355   <userId>E00013455</userId>
356   <startDate>2021-05-03T00:00:00.000</startDate>
357 </EmployeeTime>
358 </EmployeeTimeHistory>

```

Find dialog box: Find what: EmployeeTime, Count: 13 matches in entire file.