

Replicate Expense Report from Concur to Fieldglass

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Purpose

Quick start to develop an interface which replicate user's (contractor's) expense from Concur to Fieldglass.

Integration Specification

Type of Integration (outbound or inbound)	Outbound
Data Source Entities	SAP Concur SAE file (Standard Accounting Extract)
Average Number of Records	1 or more
Maximum number of Records	50K+
Processing Type	Delta
Job Schedule	Daily
Data Description (xml, comma delimited etc...)	CSV
Target Location	SAP Fieldglass

This IFLOW pulls the expense report file (SAE file) from the Concur SFTP server, decrypts the file, filters out contractor's

expense and uploads the expense data to Fieldglass via Fieldglass Connector .

Concur SAE File

Approved expense in Concur will be extracted into SAE file on a configured frequency and uploaded into Concur SFTP file. For detailed information about SAE file, please check document on Concur Technical Documentation Site.

- http://www.concurtraining.com/customers/tech_pubs/_Docs_ExpHelp.htm#imp

This IFLOW reads expense data from SAE file on Concur SFTP server.

Fieldglass Connector

Fieldglass Connector is a standard integration function which provides both upload and download of Fieldglass data. It can be accessed through Fieldglass Web Service. For Fieldglass Web Service technical specification, please check following help document on Help Portal.

- <https://help.sap.com/viewer/19bd369173524cacb58b6a2b0ca91bab/cloud/en-US/631753725a744d91905fff0e4e939cf1.html>

As a prerequisite, Connector Expense Sheet Upload should be configured on Fieldglass. For detailed information about this connector, please check following help document on Help Portal.

- <https://help.sap.com/viewer/9cfd5c12ee3046d59453e73974f9c4b7/cloud/en-US/f3c3ec33b98a45068c349bb09b3e5111.html>

NOTE: This IFLOW extracts contractor's expense from Concur SAE file and uploads expense to Fieldglass for each work order. If this doesn't match your requirement, you can select/customize appropriate Fieldglass Connector and develop your own mapping logic based on this IFLOW.

Data Mapping Logic

Header setting in Fieldglass Connector Expense Sheet Upload can be found in following table.

No.	Field Name	Mapping Logic	Comment
1	Type	Fieldglass Connector Name	Default is Expense Sheet Upload. Can be configured in IFLOW.
2	Transaction	Hardcode to "True"	
3	Language	Hardcode to "English (United States)"	
4	Number Format	Hardcode to "#,##9.99 (Example: 1,234,567.99)"	
5	Date Format	Hardcode to "MM/DD/YYYY"	
6	Approval Required	Hardcode to "False"	
7	Submit	Hardcode to "True"	
8	Supplier Review	Hardcode to "False"	

9	Comments		
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The mapping logic of Concur expense data to Fieldglass expense can be found in following table.

No.	Target Field in Fieldglass Connector	Source Field [No.] Name in Concur	Mapping Logic	Comment
1	Work Order ID	[5] Employee ID		
2	Last Name	[6] Employee Last Name		
3	First Name	[7] Employee First Name		
4	Date	[64] Report Entry Transaction Date		Format of MM/dd/yyyy
5	Cost Center Name			
6	Cost Center Code	[196] Allocation Custom 6		This is customized filed in Concur, might need to change based on Concur configuration.
7	Expense_Code	[63] Report Entry Transaction Type		
8	Expense_Name			
9	Expense Units			
10	Merchant			

11	Description			
12	Amount	[169] Journal Amount		
13		[9] Employee Custom 21		Employee group ID in Concur, used to filter out Contractor's expense. Can be configured in IFLOW.

Security Material

Before deploying the IFLOW, following security material should be deployed first.

- User credential (username and password) for accessing Fieldglass Connector
- Private key provided by Concur for decrypting SAE file
- Key pairs for logon Concur SFTP server
- Add Concur SFTP server Host Key to SSH Known Hosts file

Parameters Usage Guide

Configure "Replicate Expense Report from Concur to Fieldglass"

Sender

Receiver

More

Source

Processing

Sender:

Adapter Type:

Directory:

File Name:

Address:

User Name:

Private Key Alias:

Post-Processing:

Schedule:

Schedule to Recur

On Time

Every

Time Zone

Sender

SFTP

/out

extract_CES_SAE*.txt.pg

<Concur SFTP Address>

<Concur SFTP Logon User>

<Concur SFTP Key Alias>

Keep File and Mark as Processed in Idempotent Repository

☐ Schedule on Day

☒ Schedule to Recur

Daily

On Time

07:00 AM

Every

1 min

Between

00:00

and

01:00

(UTC 0:00) Greenwich Mean Time(Etc/GMT)

Name	Remarks
SFTP_DIRECTORY	Directory on Concur SFTP to download SAE file, normally should be under folder out.
SFTP_FILE_NAME	SAE file name mask
SFTP_ADDRESS	Concur SFTP server address

SFTP_USER_NAME	Concur SFTP server logon username
SFTP_KEY_ALIAS	Key alias of key pairs deployed in CPI, used when logon Concur SFTP server.
SFTP_POST_PROCESSING	<p>In order to make sure no duplicated reading for one file, there are 3 options can be selected.</p> <ul style="list-style-type: none"> • Delete File: delete file from SFTP server after read. • Keep File and Mark as Processed in Idempotent Repository: don't delete file from SFTP server after read, keep file name as processed in CPI repository to make sure next run the processed file will not be read again. • Move File: move the file to archive folder after read.
SFTP_ARCHIVE_DIRECTORY	If selecting Move file in SFTP_POST_PROCESSING, this parameter setting will display the folder where to put file after read.
SFTP_Scheduler	When you want the IFLOW to run, fetch file from Concur SFTP server.

Configure "Replicate Expense Report from Concur to Fieldglass"

Sender **Receiver** More

Receiver: Fieldglass

Adapter Type: HTTP

Connection

Address: <Fieldglass Web Service URL>

Name	Remarks
FG_ADDRESS	<p>Endpoint url of the Fieldglass service.</p> <p>Example of test environment:</p> <p><a href="https://<env_code>.fgvms.com/ws2/services/connectorn">https://<env_code>.fgvms.com/ws2/services/connectorn</p> <p>Example of production environment:</p> <p>https://www.fieldglass.net/ws2/services/connectorn</p>

Configure "Replicate Expense Report from Concur to Fieldglass"

Sender Receiver **More**

Type: All Parameters 

CONCUR_CONSULTANT_GROUP_ID: <Contractor Group ID in Concur>

ENABLE_PAYLOAD_LOGGING: false

FG_CONNECTOR_NAME: Expense Sheet Upload

FG_CREDENTIAL: <Fieldglass Connector Credential Name>

Name	Remarks
CONCUR_CONSULTANT_GROUP_ID	Contractor Group ID in Concur
ENABLE_PAYLOAD_LOGGING	Configurable parameter to allow logging of payloads (value set to true to print payloads, otherwise set to false)
FG_CONNECTOR_NAME	Fieldglass Connector name to upload expense data, default is Expense Sheet Upload
FG_CREDENTIAL	User credential name deployed in CPI to access Fieldglass Connector.

Scripting

Name	Description
generateRequestBody	Generates request for Fieldglass Connector call.
handleException	Handle errors, in case of errors calling the Fieldglass service the response is logged.
logPayload	If parameter ENABLE_PAYLOAD_LOGGING is set to true then this script logs responses from service calls and payloads after mapping.
mapData	Maps data to message body format required by Fieldglass.