



[Technical Split of Files From ThirdPartySftp To ThirdPartySftp]

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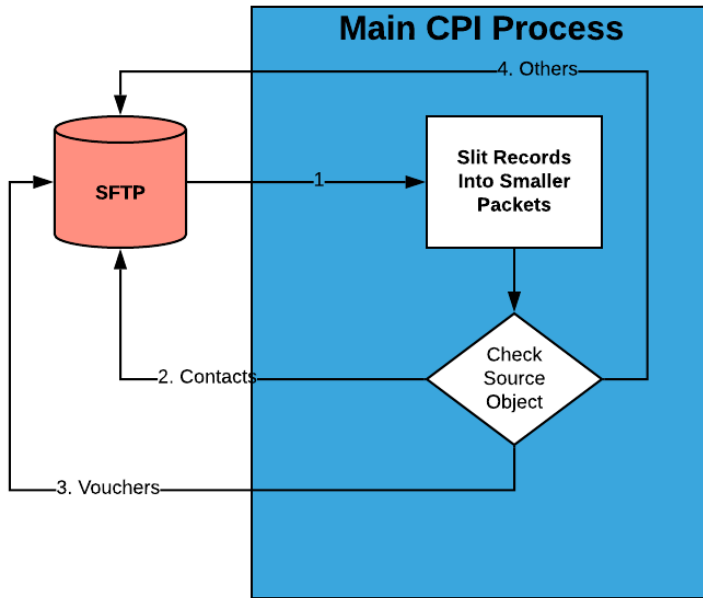
1 PURPOSE

The purpose of this document is to describe the general configuration steps required to split Interactions and Contacts files of 1 million records into 100k or 200k records before loading to SAP Marketing Cloud to optimize load performance.

2 OVERVIEW

This Integration flow splits the Customer & Interactions source file (1 million records) into 100k files without changing source file name.

[Ex: 1 Million Customer_Test.csv file will be split into 10 files with naming convention Customer_Test_1 ..Customer_Test_N]



Step 1. Read source CSV file from SFTP and split into smaller packets.

Step 2, 3, 4. : Identify the file type from the file name i.e. Contacts or Voucher Interaction or Marketing Interactions and place the split files (100k or 200k each) into different folders according to the source file type.

3 PRE-REQUISITES

Before configuring Integration Flow, please make sure the following prerequisites have been met:

1. SAP Cloud Platform Integration service is enabled and running.
2. Amazon Web Services account is enabled. S3 bucket is created and SFTP Transfer server is up and running. S3 bucket is a root directory of SFTP.
3. SFTP server is configured and connectivity between SAP CPI tenant and SFTP is established.
4. SFTP user having permissions to create and update folders and files.

4 INTEGRATION FLOW CONFIGURATION

4.1 Configuration Parameters

Externalized Parameter Name	Description	Sample Value
Sender (Directory)	Root SFTP directory. A source directory of SFTP server.	DevelopmentLoads/LoadFiles/Contacts/C4M/BeforeSplit_DS
Sender (FileName)	Source File Name on SFTP server. A file from where to load data.	Test.csv
Sender (Address)	SFTP server host name.	xxx.server.transfer.eu-west-2.amazonaws.com
Sender (User Name)	SFTP User Name. SFTP user which has access to SFTP directories.	CPI_USER_PROD
Sender (Timeout)	Maximum waiting time to contact the FTP server while establishing connection or performing a read operation.	10000
Sender (Maximum Reconnect Attempts)	Maximum reconnect attempts allowed to reconnect.	10
Sender (Reconnect Delay in ms)	Time period to wait before attempting to reconnect to the remote FTP server.	1000
Sender Processing (Lock Timeout)	How long to wait before	30

	trying to process the file again.	
Sender (Change Directories Stepwise)	Changes directory levels one at a time	true
Sender (Post-Processing)	Controls which actions should be done after file processing.	Move File
Sender (Buffer size)	Write the file content using the mentioned buffer size.	128
Sender (Max. Messages per Poll)	Maximum number of messages to gather for each poll.	20
Receiver - R_CRM_Customers (Address)	Host name or IP address and port of the SFTP server.	xxx.server.transfer.eu-west-2.amazonaws.com
Receiver - R_CRM_Customers (User Name)	ID of the user performing file transfer.	CPI_USER_PROD
Receiver- R_CRM_Customers (Timeout)	Maximum waiting time to contact the FTP server while establishing connection or performing a read operation.	10000
Receiver- R_CRM_I nteractions (Timeout)	Host name or IP address and port of the SFTP server.	xxx.server.transfer.eu-west-2.amazonaws.com
Receiver - R_CRM_Customers (User Name)	ID of the user performing file transfer.	CPI_USER_PROD

Receiver- R_CRM_ Customers (Timeout)	Maximum waiting time to contact the FTP server while establishing connection or performing a read operation.	100000
More (Splitter Grouping)	Specify the group size into which the composite message should be split.	100000

5 STEPS FOR TESTING THE IFLOW

Step 1. Upload file under location specified in "Sender (Directory)". Based on filename IFLOW will decide which object to split.

For example if filename is "Customers*" process will split customers. If filename "INTERACTIONS_VOUCHERS*" process will split interactions with type Vouchers.

Step 2. Deploy IFLOW and wait until it is finished.

Step 3. Browse SFTP directory based on input file name.

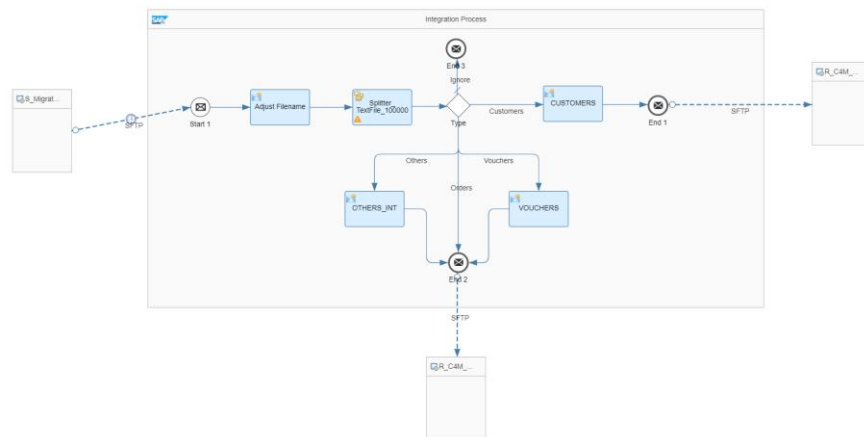
For example:

1. Split Customers files should be created under DevelopmentLoads/LoadFiles/Contacts/
2. Split Interactions with Voucher files - should be created under DevelopmentLoads/LoadFiles/Interactions/

End to End Test:

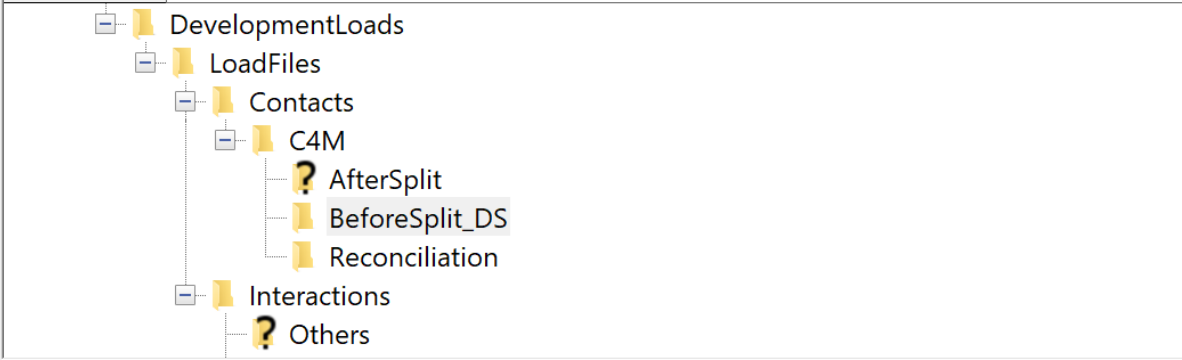
Iflow Components:

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Uploaded Customer file into Sender Sftp folder
 "DevelopmentLoads/LoadFiles/Contacts/C4M/BeforeSplit_DS"

Remote site: /sftp2smc/DevelopmentLoads/LoadFiles/Contacts/C4M/BeforeSplit_DS

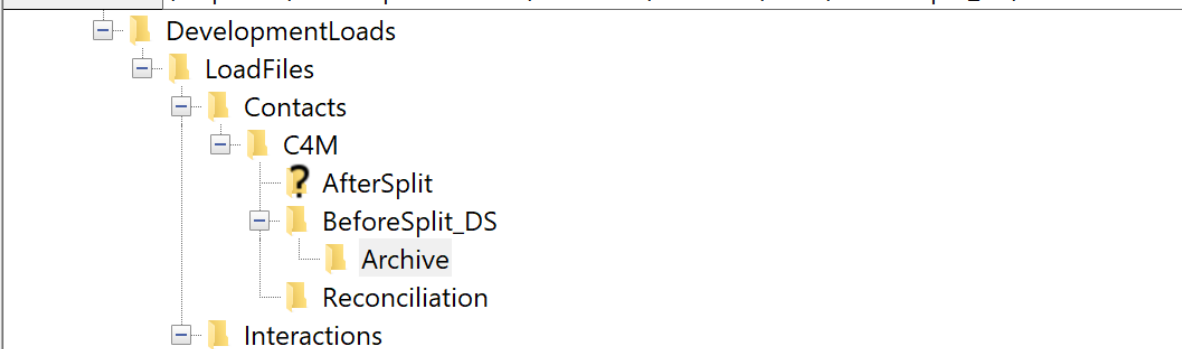


Filename

- ..
- Customers.csv

Archived file.

Remote site: /sftp2smc/DevelopmentLoads/LoadFiles/Contacts/C4M/BeforeSplit_DS/Archive



Filename

- ..
- Customers.csv

Status of message is successful.

Technical Split From ThirdPartySftp To ThirdPartySftp Last Updated at: Feb 14, 2020, 18:15:08

Status Properties Logs

Message processing completed successfully.

Processing Time: 4 sec 580 ms

Properties

Message ID: AF5GllCtpurI9Kfa7C0lAnxfnn2t
Correlation ID: AF5GllAeH8oZLx5whm91AqdprrnS

Artifact Name: [Technical Split From ThirdPartySftp To ThirdPartySftp](#)
Artifact ID: Technical_Split_From_ThirdPartySftp_To_ThirdPartySftp
Artifact Type: Integration Flow

Sender File is routed to target folder based on input file.

The screenshot displays the SAP Integration Suite interface. On the left, the 'Run Steps (23)' list shows the following steps and their durations:

Step Name	Segment	Duration
SFTP	Segment 5	484 ms
End 1	Segment 5	6 ms
CUSTOMERS	Segment 5	6 ms
Type	Segment 5	504 ms
Splitter_TextFile_100000	Segment 5	-
SFTP	Segment 4	466 ms
End 1	Segment 4	6 ms

The 'Integration Flow Model' diagram on the right shows the flow starting from 'GQR_Mgrat.' through an 'SFTP' step, followed by 'Adjust Filename', 'Splitter_TextFile_100000', and a decision diamond. The flow then branches into 'OTHERS_INT' and 'VOUCHERS', both leading to 'SFTP' steps, and finally to 'GQR_CAM...'.

Split files are into target folder:

The screenshot shows a file explorer view of a remote site. The path is `/sftp2smc/DevelopmentLoads/LoadFiles/Contacts/C4M/AfterSplit`. The directory structure is as follows:

- Contacts
 - C4M
 - AfterSplit
 - Current
 - ProductionLoads
 - BeforeSplit_DS
 - Archive
 - Reconciliation
 - Interactions

Below the directory view is a table of files:

Filename	Filesize	Filetype	Last modified
Customers_3.csv	74	Microsoft Excel Com...	02/14/20 18:18:28
Customers_2.csv	74	Microsoft Excel Com...	02/14/20 18:18:27
Customers_1.csv	74	Microsoft Excel Com...	02/14/20 18:18:27
Customers_0.csv	74	Microsoft Excel Com...	02/14/20 18:18:26
Current	-	File folder	02/13/20 23:55:44
ProductionLoads	-	File folder	01/01/70