Interface Design – Email notification for SFTP interfaces for non file pickup scenario

TECHNICAL SPECIFICATION - INTERFACE

Contents

1 Document Organization

This section provides details about this document, previous version(s) of this document and the document(s) referred.

2 Overview of Technical Specifications

2.1 Purpose

This document aims to provide technical information for the interface design for SFTP interface email notification for no file pickup scenario that was initially created to address customer requirements but can be used as reference for other projects.

2.2 Scope

The scope of this document is to describe the integration flow and technical details based on the original scenario it was built on.

2.3 Problem Statement

Client wants a notification in the event of non file pickup from the SFTP server during the configured time.

2.4 Solution Overview

Local variable is utilized to store the last run date time of the interface which will be used to determine whether the interface processed an incoming file within the set offset time configured to send the notification.

2.5 Assumptions

- Source would be SFTP/FTP
- Necessary authorization/authentication requirements between source SFTP/FTP server and Cloud Integration are in place

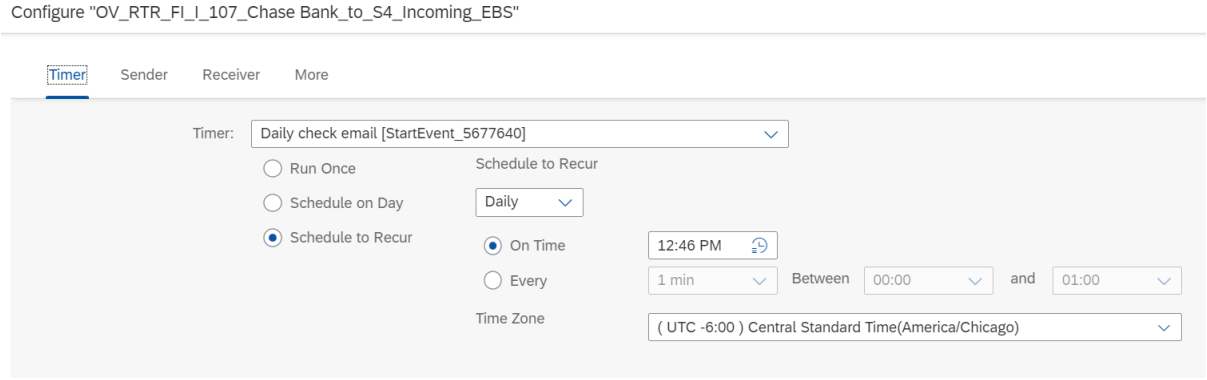
2.6 Dependencies / Dependent Configuration

- Configuration precision in terms of scheduling when the run check will happen and the actual polling schedule of the file from source SFTP/FTP

3 Detailed Technical Design Specifications

3.1 Interface parameters

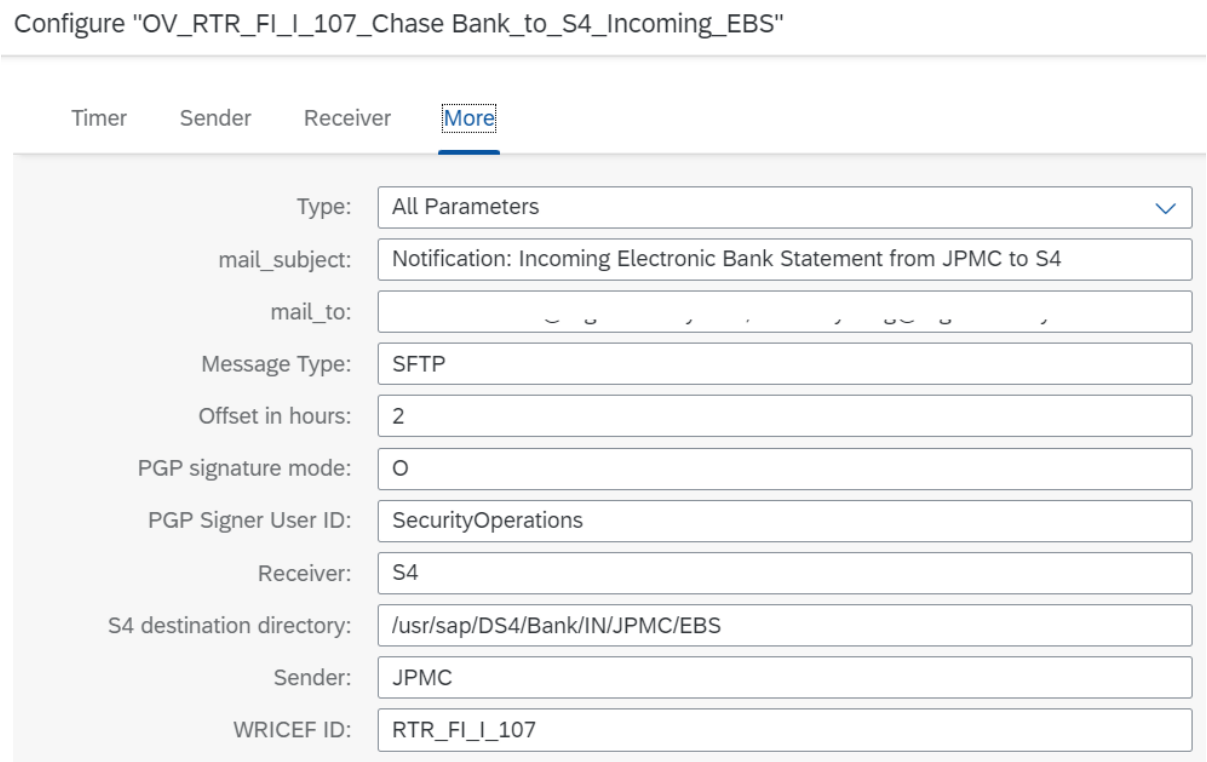
Set timer for run check



NOTE: Set this timer with 1-2 mins adjustment from last run datetime of scheduled timer

- Example:
  - Scheduled run timer: 12:00am-2:00am
  - Dailly check mail: 2:01am or 2:02am

Set other configurations



- PGP Signature mode:
  - O - Optional
  - R - Required
  - N - None
  - Blank – no decryption to happen
- PGP signer user ID: for PGP decryption
- Offset in hours – For run check procedure
  - “How many hours back to check for file pickup?”
  - Start time for offset check will depend on scheduled time for run check in the previous screenshot.

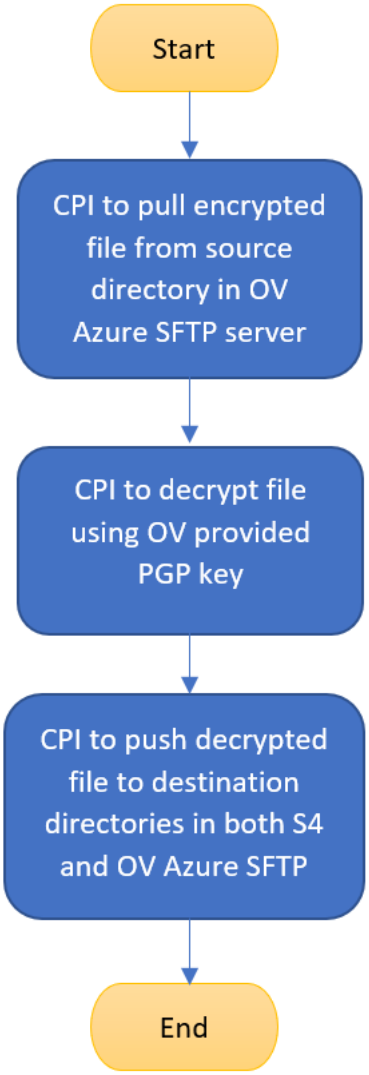
3.2 Dependencies / Dependent Object

3.2.1 Local variable to assign the last RunDateTime of the interface

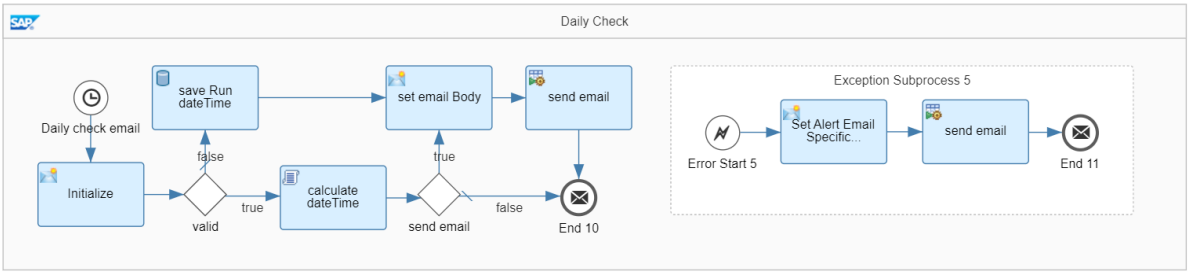
LastRunDateTime_LV

3.3 Technical Flow Diagram

A custom interface would be developed in SAP CPI to pull the PGP encrypted file from source directory in OV Azure SFTP server, decrypt using PGP key generated by JPMC and push to destination directories (outbound and archive) in both S4 and OV Azure SFTP server.



Daily Check

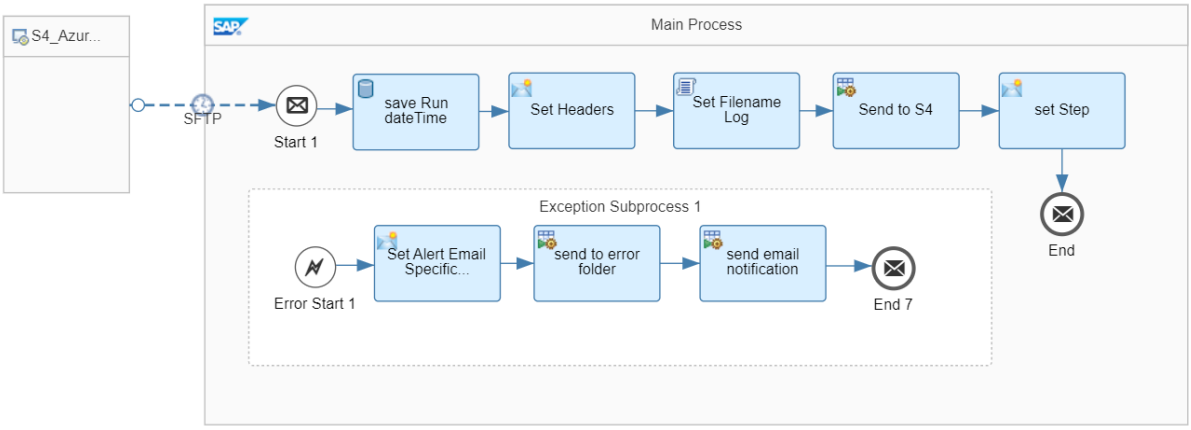


Steps:

- Initialize
  - Pickup LastRunDateTime_LV variable containing last interface run
- Check LastRunDateTime_LV value
  - Empty – save current run into the local variable and send email
  - Not Empty – proceed with next steps
- Calculate DateTime
  - Depending on configuration, this step will determine whether to send email or not
  - Calculation:
    - (Current run date time – offset hours) = cutoff date time

- IF cutoff date time > last run date time, SEND EMAIL
- ELSE, do not send email

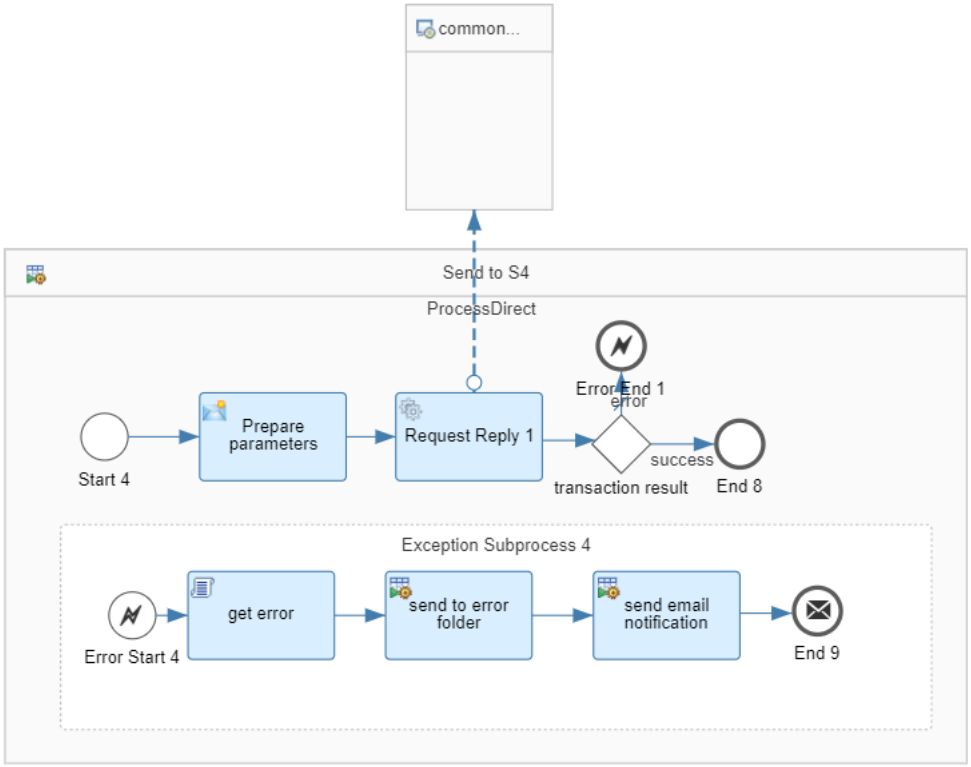
Main Process



Steps:

- Save run date time in variable (interface will only run if it detects the presence of the file)
- Set headers for logging purposes
- Set filename log and prepare for sending to S4
- Send to S4

Send to S4

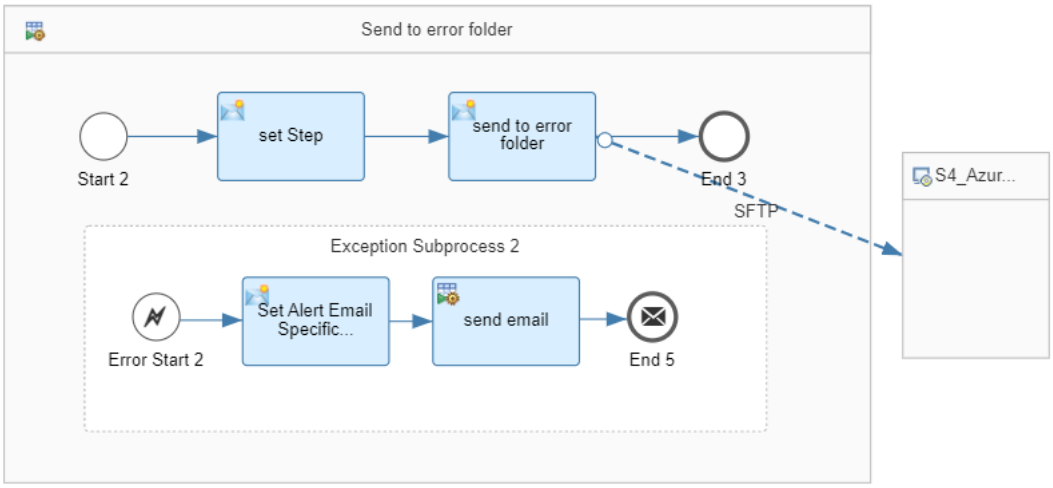


Steps:

- Prepare payload to be sent to S4
- Send to S4 via processDirect call to a common IFlow
- Determine result

- Success: proceed to archiving of file to designated folder on the SFTP Adapter configuration

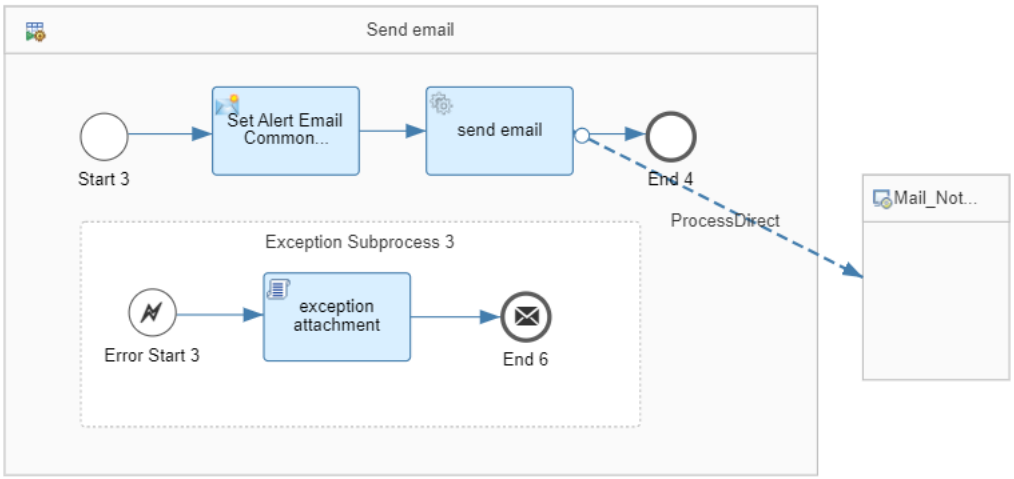
Send to error folder



Steps:

- In case of error, send file to designated error folder

Send Email



Steps:

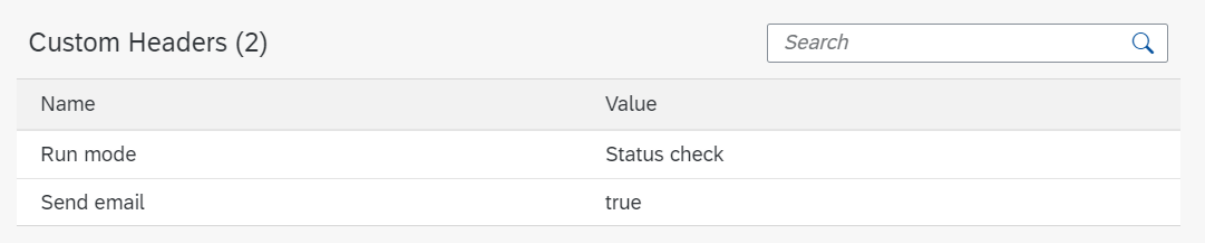
- Send email notification via ProcessDirect to custom common iFlow

4 Monitoring

4.1 Custom Headers

Custom headers are populated for each run for information:

- Run mode
- Send email



5 Potential Improvements/Further Notes

Below are potential improvements that can be done but were not applied/tested due to either being conceptualized at the later stage of the project or not able to implement due to limitation at adapter level.

5.1 More detailed offset time to check for interface run

- Currently interface is limited to an hour based configuration in terms of timing for checking whether to send notification email. This can be improved further by adding minutes into the config and into the groovy script for computation.