



Configuration Guide - SAP Integration Suite Cloud Integration Utilities Scheduled Interface with Adhoc Run Functionality

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Prerequisites

- The Integration Flow is designed as a scheduler to get data from source system and send to target system.
- The data get from source system is delta data, which means the request contains a time slot filter to select newly changed/added data from source system. The previous successful run timestamp will be stored in a Local Variables in Cloud Integration.

Documentation

The main Integration Flow is designed as a scheduler to get data from source system and send to target system. The data get from source system is delta data, which means the request contains a time slot filter to select newly changed/added data from source system. The previous successful run timestamp will be stored in a Local Variables in Cloud Integration, it will be used as "from" timestamp filter in next request call to source system in next scheduler run. "to" timestamp filter is scheduler current run timestamp.

The ad-hoc run Integration Flow supports following 3 functions:

1. Only re-set last run timestamp in Local Variable and don't need data selection and send logic to run.
2. Re-run the data selection and send logic using last run timestamp stored in Local Variable as "from" filter and scheduler current run timestamp as "to" filter.
3. Run the data select and send logic using configured "from" and "to" timestamp filter.

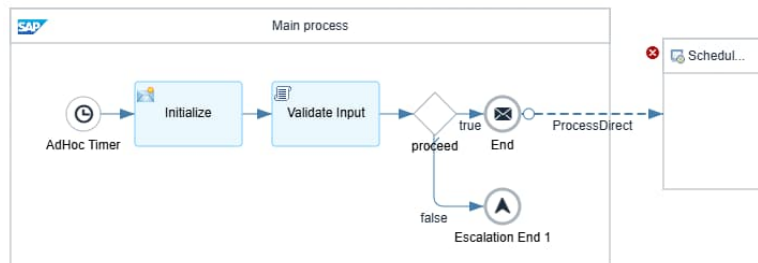
Scheduled Interface with Adhoc Run Functionality - Step 1

This is the sample Integration Flow designed as a scheduler to get data from source system and send to target system. The "from" and "to" filter are set into request body when calling source system, which is an example. It can be changed based on the requirements from source system, for example format "from" and "to" filter into a query string and put in request URL. Normally there is a mapping step after select data from source system and before send data to target system. It can be added based on data structure of source system and requirement of target system.



Scheduled Interface with Adhoc Run Functionality - Step 2

This is the Integration Flow which provides ad-hoc run to previous scheduled Integration Flow. Normally it is configured as Run Once and deployed to run when needed. It is also possible to define a HTTP Sender Adapter in the Integration Flow and using other tools to call the Integration Flow when needed.



Configuration Steps on SAP Cloud Integration

Scheduled Interface with Adhoc Run Functionality - Step 1

Configure Timer

Configure the scheduler timer for the Integration Flow, please refer to [Define a Timer Start Event](#).

Configure Sender Adapter

- Sender: AdHoc

Configure the Process Direct Sender Adapter to receive calls from ad-hoc run Integration Flow, please refer to [Configure the ProcessDirect Sender Adapter](#).

Configure Receiver Adapter

- Source System

Configure the HTTP Receiver Adapter to retrieve data from source system, please refer to [HTTP Receiver Adapter](#).

- Target System

Configure the HTTP Receiver Adapter to send data to source system, please refer to [HTTP Receiver Adapter](#).

Configure Parameter

- Initialize Last Run Date Time
 - Configure the initialized value for last run date time
 - It will be used if the last run date time stored in Local Variable is empty
 - Format is yyyy-MM-ddThh:mm:ssZ, e.g. 2025-01-01T10:00:00Z

Scheduled Interface with Adhoc Run Functionality - Step 2

Configure Timer

Configure the scheduler timer for the Integration Flow, please refer to [Define a Timer Start Event](#).

Configure Receiver Adapter

- Receiver: Scheduled Interface

Configure the Process Direct Receiver Adapter to call the scheduler Integration Flow, please refer to [Configure the ProcessDirect Receiver Adapter](#).

Configure Parameter

- (true/false)Adhoc as Scheduled
 - It is the switch of rerun the scheduler or not, excepting true or false to be set
 - If set to true, set parameter of "Set Initial Run DateTime" to empty, will re-run the scheduled Integration Flow, using last run date time stored in Local Variable as "from" filter, using Integration Flow current run time as "to" filter
 - If set false, not enable rerun function
- Set Initial Run DateTime
 - If there is value set in the parameter, parameter of "(true/false)Adhoc as Scheduled" set to false, will Only re-set last run timestamp in Local Variable and don't need data selection and send logic to run.
 - Format is yyyy-MM-ddThh:mm:ssZ, e.g. 2025-01-01T10:00:00Z
 - If there is no value set in the parameter, the function of set initial run date time is not enabled
- From DateTime
 - If there is value configured in the parameter, parameter of "Set Initial Run DateTime" is empty, parameter of "To DateTime" is not empty, the function of ad-hoc run enabled, using the value set in parameter of "From DateTime" as "from" filter, using the value set in parameter of "To DateTime" as "to" filter
 - Format is yyyy-MM-ddThh:mm:ssZ, e.g. 2025-01-01T10:00:00Z
- To DateTime
 - If there is value configured in the parameter, parameter of "Set Initial Run DateTime" is empty, parameter of "From DateTime" is not empty, the function of ad-hoc run enabled, using the value set in parameter of "From DateTime" as "from" filter, using the value set in parameter of "To DateTime" as "to" filter
 - Format is yyyy-MM-ddThh:mm:ssZ, e.g. 2025-01-01T10:00:00Z