



**UiPath Reusable Component - SRC  
Transaction Data Components  
for SAP S/4HANA  
User Manual**



## Explanatory Material : UiPath Reusable Component - SRC Transaction Data Components for SAP S/4HANA

### 1. Overview

This Component provides Workflow Template to automate the operation of SAP S/4HANA with UiPath. The provided Workflow Template is used together with "Common Reusable Components" of UiPath Go! to implement efficient data registration in SAP.

Depending on the settings of each environment (installed version, component, business add-in, parameter settings, etc.), this Workflow Template may not be used without modification. Please check this Workflow Template and use it as a reference when creating individual Workflows.

### 2. About the usage

Please check the items below before using this Workflow Template.

- This component is tested in the following environment.
  - UiPath Studio 18.4.4
  - SAP S/4HANA(1809)
  - SAP GUI for Windows Release 750
- The Workflow Template provided in the "Common Reusable Components" of UiPath Go! Must be saved together when using the UiPath Reusable Component for S/4HANA.
  - (Please also refer to the explanatory material "UiPath Reusable Component-SRC for SAP S/4HANA About usage")
- If you want to execute a Workflow whose workflow name includes v2.2 or BAPIv2.2, you need to install UiPath.SAP.BAPI.Activities.2.2. Before executing each workflow, please make sure that the above activities are installed.
- Do not start Excel when executing.
- Please refer to "Common Reusable Components" of UiPath Go! in how to create data files for STEP1.
  - In this Component, based on the Input File created using "SRC\_GUI\_SelectorDataBuilder" provided by "Common Reusable Components" of UiPath Go!, input file is created with the necessary added functions.
- Code display are required for items in the drop-down list. Select "Show keys within dropdown list" in GUI Interactive Design settings.

### 3. Function of the components

Component Name : UiPath Reusable Component - SRC Transaction Data Components for SAP S/4HANA  
Version : 1.1.0

NO	Workflow	Description
1	SRC_PAYMENT_PRMT_CRT	Create parameters for data extraction of automatic payment execution from Transaction Code: F110
2	SRC_PAYMENT_PROPOSAL	Execute processing payment proposal from Transaction Code: F110
3	SRC_PAYMENT_RUN	Execute the payment processing from Transaction Code: F110
4	SRC_PAYMENT_PRINT	Execute the printing processing from Transaction Code: F110
5	SRC_CYCLE_CRT	Register the cycle from Transaction Code: KSU1
6	SRC_SEGMENT_CRT	Add to the segment from Transaction Code: KSU2
7	SRC_BAPI_REQUISITION_CREATE_v2.2	BAPI_REQUISITION_CREATE : Create Purchase Requisition
8	SRC_BAPI_PO_CREATE1_v2.2	BAPI_PO_CREATE1 : Create Purchase Order
9	SRC_BAPI_PO_CHANGE_v2.2	BAPI_PO_CHANGE : Change Purchase Order
10	SRC_BAPI_GOODSMVT_CREATE_v2.2	BAPI_GOODSMVT_CREATE : Post Goods Movements with MB_CREATE_GOODS_MOVEMENT
11	SRC_BAPI_GOODSMVT_CANCEL_v2.2	BAPI_GOODSMVT_CANCEL : Reverse Goods Movements with MB_CANCEL_GOODS_MOVEMENT
12	SRC_BAPI_INCOMINGINVOICE_CREATE_v2.2	BAPI_INCOMINGINVOICE_CREATE : Invoice Verification: Post Incoming Invoice
13	SRC_BAPI_INCOMINGINVOICE_CANCEL_v2.2	BAPI_INCOMINGINVOICE_CANCEL : Invoice Verification: Reverse Invoice
14	SRC_BAPI_RESERVATION_CREATE1_v2.2	BAPI_RESERVATION_CREATE1 : BAPI to Create Individual Reservations
15	SRC_BAPI_RESERVATION_DELETE_v2.2	BAPI_RESERVATION_DELETE : BAPI to Delete Individual Reservations
16	SRC_BAPI_MATPHYSINV_CREATE_MULT_v2.2	BAPI_MATPHYSINV_CREATE_MULT : Create Physical Inventory Document
17	SRC_BAPI_MATPHYSINV_COUNT_v2.2	BAPI_MATPHYSINV_COUNT : Enter Count for Certain Items of a Physical Inventory Document
18	SRC_BAPI_MATPHYSINV_POSTDIFF_v2.2	BAPI_MATPHYSINV_POSTDIFF : Post differences for certain items in a phys. inv. Document
19	SRC_BAPI_SALESORDER_CREATEFROMDAT2_v2.2	BAPI_SALESORDER_CREATEFROMDAT2 : Sales Order: Create Sales Order
20	SRC_BAPI_SALESORDER_CHANGE_v2.2	BAPI_SALESORDER_CHANGE : Sales order: Change Sales Order
21	SRC_BAPI_OUTB_DELIVERY_CREATE_SLS_v2.2	BAPI_OUTB_DELIVERY_CREATE_SLS : Generates Delivery for Customer Order
22	SRC_BAPI_OUTB_DELIVERY_CHANGE_v2.2	BAPI_OUTB_DELIVERY_CHANGE : BAPI for Change to Outbound Delivery
23	SRC_LE_DELIVERY_UPDATE_v2.2	LE_DELIVERY_UPDATE : Calls WS_DELIVERY_UPDATE_2 and returns additional data
24	SRC_BAPI_BILLINGDOC_CREATEMULTIPLE_v2.2	BAPI_BILLINGDOC_CREATEMULTIPLE : Create Individual Customer Billing Document
25	SRC_BAPI_BILLINGDOC_CANCEL1_v2.2	BAPI_BILLINGDOC_CANCEL1 : Cancel Customer Individual Billing Document
26	SRC_BAPI_PRODORD_CREATE_v2.2	BAPI_PRODORD_CREATE : BAPI: Generate Production Order
27	SRC_BAPI_PRODORD_RELEASE_v2.2	BAPI_PRODORD_RELEASE : BAPI: Release Production Orders
28	SRC_BAPI_ROUTING_CREATE_v2.2	BAPI_ROUTING_CREATE : Creation of a routing
29	SRC_BAPI_PLANNEDORDER_CREATE_v2.2	BAPI_PLANNEDORDER_CREATE : Create planned order
30	SRC_BAPI_PLANNEDORDER_DELETE_v2.2	BAPI_PLANNEDORDER_DELETE : Delete planned order
31	SRC_BAPI_PRODORDCONF_CREATE_TT_v2.2	BAPI_PRODORDCONF_CREATE_TT : Enter Confirmation Time Ticket
32	SRC_BAPI_PRODORDCONF_CANCEL_v2.2	BAPI_PRODORDCONF_CANCEL : Cancel Production Order Confirmation
33	SRC_BAPI_ACC_DOCUMENT_POST_v2.2	BAPI_ACC_DOCUMENT_POST
34	SRC_BAPI_ACC_DOCUMENT_REV_POST_v2.2	BAPI_ACC_DOCUMENT_REV_POST
35	SRC_BAPI_ASSET_ACQUISITION_POST_v2.2	BAPI_ASSET_ACQUISITION_POST : Post Asset Acquisition *December 2019 additional function (Using UiPath.SAP.BAPI.Activities.2.2.1 or later)
36	SRC_BAPI_ASSET_REVERSAL_POST_v2.2	BAPI_ASSET_REVERSAL_POST : Post Asset Document Reversal *December 2019 additional function (Using UiPath.SAP.BAPI.Activities.2.2.1 or later)
37	SRC_BAPI_KEYFIGURE_CREATEMULTIPLE_v2.2	BAPI_KEYFIGURE_CREATEMULTIPLE : Create One or More Statistical Key Figures *December 2019 additional function
38	SRC_BAPI_ACC_STAT_KEY_FIG_POST_v2.2	BAPI_ACC_STAT_KEY_FIG_POST : Accounting: Post Statistical Key Figures *December 2019 additional function
39	SRC_BAPI_INCOMINGINVOICE_PARK_v2.2	BAPI_INCOMINGINVOICE_PARK : Invoice Verification: Park Incoming Invoice *December 2019 additional function
40	SRC_PARK_ACC	Register the parked document from Transaction code: FV50, FV60, and FV70 *December 2019 additional function
41	SRC_PARC_DOC_POST	Post the parked document from Transaction code: FBV0 *December 2019 additional function
42	SRC_RFC_SAVE_TEXT_v2.2	Register TEXT(Long) using the function module: RFC_SAVE_TEXT *December 2019 additional function

## Explanatory Material : UiPath Reusable Component - SRC Transaction Data Components for SAP S/4HANA

### 4. Function Image Overview

UiPath Reusable Component includes various function to improve efficiency in data registration and modification.

Within this Components are included "2. Data registration in SAP using BAPI" Sample Workflow Template and Input File and "3. Data registration to SAP using GUI" Sample Workflow Template and Input File.  
Please use it as a reference when creating workflows each development environment.

#### 1. Data registration file creation support function for Batch Input

Provided as a standard function of SAP S/4HANA, use the Batch Input to convert the data file exported from Batch Input Session to Excel format. There is also a function to change Excel format to a text file format that can be imported into Batch Input Session.  
-> Already published on UiPath GO. Search for [UiPathTeam.SRC.SAP\_S4HANA.1.0.1]

#### 2. Data registration in SAP using BAPI

By using the released "UiPath.SAP.BAPI.Activities.2.1", it is possible with some modifications, enable the registration of multiple header data. In this Package, the Workflow Templates to create in STEP1 and the Data Files are provided. It is possible to register multiple header data executing "SRC\_BAPIv2.2\_REGISTER" provided by "Common Reusable Components" of UiPath Go! Please refer to "SRC\_BAPIv2.2\_REGISTER" of "Common Reusable Components" for usage.

Example : BAPI\_PO\_CREATE1

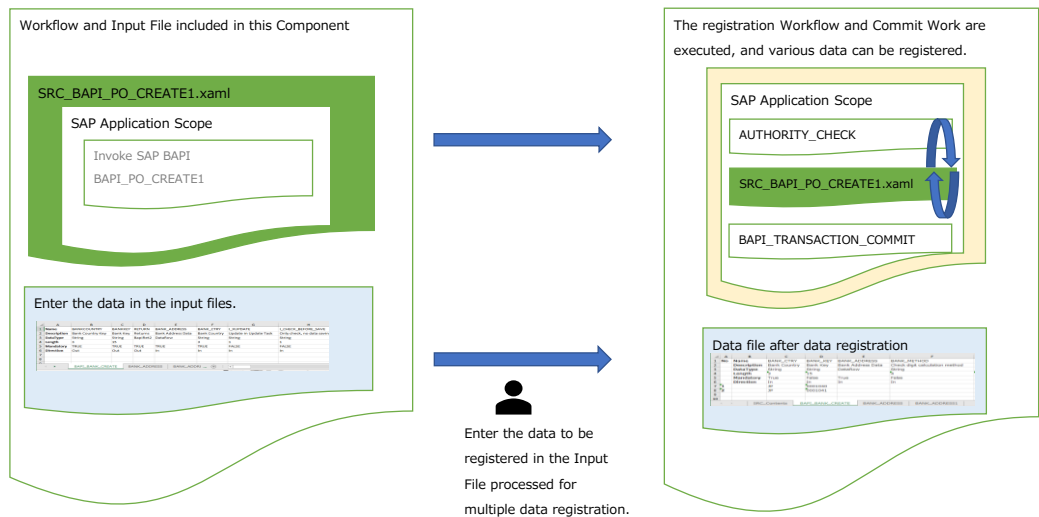
##### STEP1

- Use "UiPath.SAP.BAPI.Activities.2.2." or later to create a workflow for registration.
- "UiPath.SAP.BAPI.Activities" outputs an Excel Template for registration.
- From the Workflow and Excel Template above, if necessary change the Workflow to be able to register multiple headers / multiple items.
- > **This Component can simply be used with the Workflow and Input File for each BAPI without the above development.**

##### STEP2

Execute "SRC\_BAPIv2.2\_REGISTER" and register the inputted data of Input File.

Also check the setting method of AUTHORITY\_CHECK included in the "SRC\_BAPIv2.2\_REGISTER" explanation material of "Common Reusable Components".



#### 3. Data registration to SAP using GUI

The workflow within this Component, enable the process automation of registration data through multiple screens. It is necessary to have a logged SAP GUI instance before execute.

Confirm the following configuration.

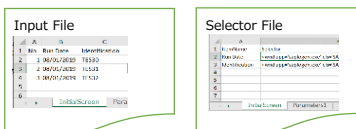
- Regarding the GUI operation, only the items in the attached sample worksheets are tested for reference.
- Error Message is not supported with all messages. If Error / Warning / Information are occurred, the message is displayed as below.
  - Error : Stop registration to the data and take screenshot of the error screen after get the message details.
  - Warning / Information : Check if the message is displayed repeatedly. If it is displayed, exit the process.

\* The following procedure is assumed.

##### STEP1

Move to the screen where data will be registered and execute "SRC\_GUI\_SelectorDataBuilder".

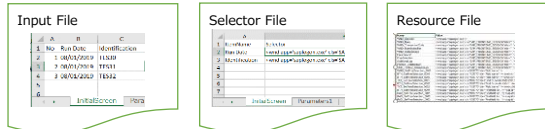
Click on the SAP fields where data will be registered. After click all necessary fields, finish the process and the Input File and Selector File for data registration will be created.



##### STEP2

According to each environment, get the correspondent Resource information as selectors used for screen transition and data registration, used together with the Input File and Selector File prepared in the STEP1 and create a workflow that can register data.

BASIS Components includes a Workflow Template for JOB registration that can be used as reference.



## [About data registration using GUI]

### 1. Overview

NO	Workflow	Description
1	SRC_PAYMENT_PRMT_CRT	Create parameters for data extraction of automatic payment from Transaction Code: F110
2	SRC_PAYMENT_PROPOSAL	Execute processing payment proposal from Transaction Code: F110
3	SRC_PAYMENT_RUN	Execute the payment processing from Transaction Code: F110
4	SRC_PAYMENT_PRINT	Execute the printing processing from Transaction Code: F110
5	SRC_CYCLE_CRT	Register the cycle from Transaction Code: KSU1
6	SRC_SEGMENT_CRT	Add to the segment from Transaction Code: KSU2
40	SRC_PARK_ACC	Register the parked document from Transaction code: FV50, FV60, and FV70
41	SRC_PARC_DOC_POST	Post the parked document from Transaction code: FBV0

### 2. About the usage

Please check the items below before using this Workflow Template.

- This component is tested in the following environment.
  - UiPath Studio 18.4.4
  - SAP S/4HANA(1809)
  - SAP GUI for Windows Release 750
- The Workflow Template provided in the "Common Reusable Components" of UiPath Go! Must be saved together when using the UiPath Reusable Component for S/4HANA.
  - (Please also refer to the explanatory material "UiPath Reusable Component-SRC for SAP S/4HANA About usage")
- Do not start Excel when executing.
- Please refer to "Common Reusable Components" of UiPath Go! in how to create data files for STEP1.
  - In this Component, based on the Input File created using "SRC\_GUI\_SelectorDataBuilder" provided by "Common Reusable Components" of UiPath Go!, input file is created with the necessary added functions.
  - Code display are required for items in the drop-down list. Select "Show keys within dropdown list" in GUI Interactive Design settings.

### 3. Function Image Overview

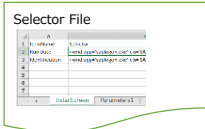
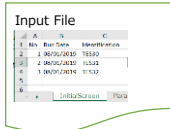
We provide the workflow template, that load the Input File prepared in STEP1 to register data to SAP S/4HANA.

#### \* Function overview

##### STEP1

Move to the screen where data will be registered and execute "SRC\_GUI\_SelectorDataBuilder"

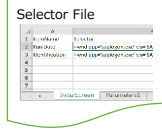
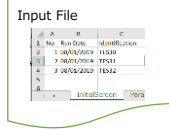
Click on the SAP fields where data will be registered. After click all necessary fields, finish the process and the Input File and Selector File for data registration will be created.



##### STEP2

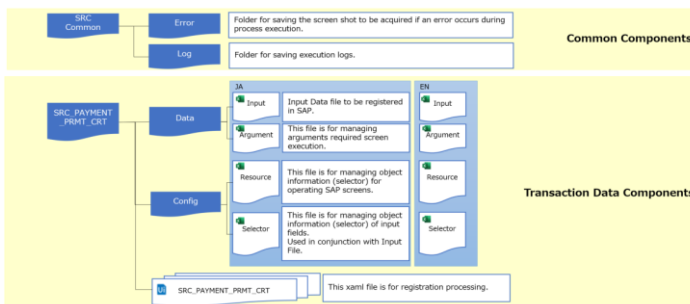
According to each environment, get the correspondent Resource information as selectors used for screen transition and data registration, used together with the Input File and Selector File prepared in the STEP1 and create a workflow that can register data.

BASIS Components includes a Workflow Template for JOB registration that can be used as reference.



#### \* About Folder Structure

The following folder structure is assumed.



#### Data Folder

Contains files that may be changed by person responsible for data entry.

Input File : Data Input File for SAP data registration.

Argument File : This file is used to manage information such as SAP login information, Input File, and save destination of the execution xaml file.

#### Config Folder

Contains files that manage object information.

(Manages information that does not need to be changed every time data is entered)

Resource File : File used to manage button object (selector) information required for screen transition.

Selector File : File used to manage input item object (selector) information that is related to Input File.

#### About Xaml File

The xaml file to which "SRC" is assigned, becomes Main.xaml for execution.



**[Data registration using]**

**1. Overview**

NO	Workflow Name	Function	Additional processing		
7	SRC_BAPI_REQUISITION_CREATE_v2.2	BAPI_REQUISITION_CREATE : Create Purchase Requisition			
8	SRC_BAPI_PO_CREATE1_v2.2	BAPI_PO_CREATE1 : Create Purchase Order			
9	SRC_BAPI_PO_CHANGE_v2.2	BAPI_PO_CHANGE : Change Purchase Order			
10	SRC_BAPI_GOODSMVT_CREATE_v2.2	BAPI_GOODSMVT_CREATE : Post Goods Movements with MB_CREATE_GOODS_MOVEMENT	1	3	
11	SRC_BAPI_GOODSMVT_CANCEL_v2.2	BAPI_GOODSMVT_CANCEL : Reverse Goods Movements with MB_CANCEL_GOODS_MOVEMENT	1	3	
12	SRC_BAPI_INCOMINGINVOICE_CREATE_v2.2	BAPI_INCOMINGINVOICE_CREATE : Invoice Verification: Post Incoming Invoice	1	3	
13	SRC_BAPI_INCOMINGINVOICE_CANCEL_v2.2	BAPI_INCOMINGINVOICE_CANCEL : Invoice Verification: Reverse Invoice	1	3	
14	SRC_BAPI_RESERVATION_CREATE1_v2.2	BAPI_RESERVATION_CREATE1 : BAPI to Create Individual Reservations			
15	SRC_BAPI_RESERVATION_DELETE_v2.2	BAPI_RESERVATION_DELETE : BAPI to Delete Individual Reservations			
16	SRC_BAPI_MATPHYSINV_CREATE_MULT_v2.2	BAPI_MATPHYSINV_CREATE_MULT : Create Physical Inventory Document			
17	SRC_BAPI_MATPHYSINV_COUNT_v2.2	BAPI_MATPHYSINV_COUNT : Enter Count for Certain Items of a Physical Inventory Document			
18	SRC_BAPI_MATPHYSINV_POSTDIFF_v2.2	BAPI_MATPHYSINV_POSTDIFF : Post differences for certain items in a phys. inv. Document			
19	SRC_BAPI_SALESORDER_CREATEFROMDAT2_v2.2	BAPI_SALESORDER_CREATEFROMDAT2 : Sales Order: Create Sales Order			
20	SRC_BAPI_SALESORDER_CHANGE_v2.2	BAPI_SALESORDER_CHANGE : Sales order: Change Sales Order			
21	SRC_BAPI_OUTB_DELIVERY_CREATE_SLS_v2.2	BAPI_OUTB_DELIVERY_CREATE_SLS : Generates Delivery for Customer Order	1		
22	SRC_BAPI_OUTB_DELIVERY_CHANGE_v2.2	BAPI_OUTB_DELIVERY_CHANGE : BAPI for Change to Outbound Delivery	1	3	
23	SRC_LE_DELIVERY_UPDATE_v2.2	LE_DELIVERY_UPDATE : calls WS_DELIVERY_UPDATE_2 and returns additional data		2	
24	SRC_BAPI BILLINGDOC_CREATEMULTIPLE_v2.2	BAPI BILLINGDOC_CREATEMULTIPLE : Create Individual Customer Billing Document	1		
25	SRC_BAPI BILLINGDOC_CANCEL1_v2.2	BAPI BILLINGDOC_CANCEL1 : Cancel Customer Individual Billing Document	1		
26	SRC_BAPI_PRODORD_CREATE_v2.2	BAPI_PRODORD_CREATE : BAPI: Generate Production Order			4 5
27	SRC_BAPI_PRODORD_RELEASE_v2.2	BAPI_PRODORD_RELEASE : BAPI: Release Production Orders			4
28	SRC_BAPI_ROUTING_CREATE_v2.2	BAPI_ROUTING_CREATE : Creation of a routing			4
29	SRC_BAPI_PLANNEDORDER_CREATE_v2.2	BAPI_PLANNEDORDER_CREATE : Create planned order			4
30	SRC_BAPI_PLANNEDORDER_DELETE_v2.2	BAPI_PLANNEDORDER_DELETE : Delete planned order			
31	SRC_BAPI_PRODORDCONF_CREATE_TT_v2.2	BAPI_PRODORDCONF_CREATE_TT : Enter Confirmation Time Ticket	1		4
32	SRC_BAPI_PRODORDCONF_CANCEL_v2.2	BAPI_PRODORDCONF_CANCEL : Cancel Production Order Confirmation			5
33	SRC_BAPI_ACC_DOCUMENT_POST_v2.2	BAPI_ACC_DOCUMENT_POST			
34	SRC_BAPI_ACC_DOCUMENT_REV_POST_v2.2	BAPI_ACC_DOCUMENT_REV_POST			
35	SRC_BAPI_ASSET_ACQUISITION_POST_v2.2	BAPI_ASSET_ACQUISITION_POST : Post Asset Acquisition			4
36	SRC_BAPI_ASSET_REVERSAL_POST_v2.2	BAPI_ASSET_REVERSAL_POST : Post Asset Document Reversal			4
37	SRC_BAPI_KEYFIGURE_CREATEMULTIPLE_v2.2	BAPI_KEYFIGURE_CREATEMULTIPLE : Create One or More Statistical Key Figures		3	
38	SRC_BAPI_ACC_STAT_KEY_FIG_POST_v2.2	BAPI_ACC_STAT_KEY_FIG_POST : Accounting: Post Statistical Key Figures			
39	SRC_BAPI_INCOMINGINVOICE_PARK_v2.2	BAPI_INCOMINGINVOICE_PARK : Invoice Verification: Park Incoming Invoice		3	
42	SRC_RFC_SAVE_TEXT_v2.2	Register TEXT(Long) using the function module: RFC_SAVE_TEXT		3	

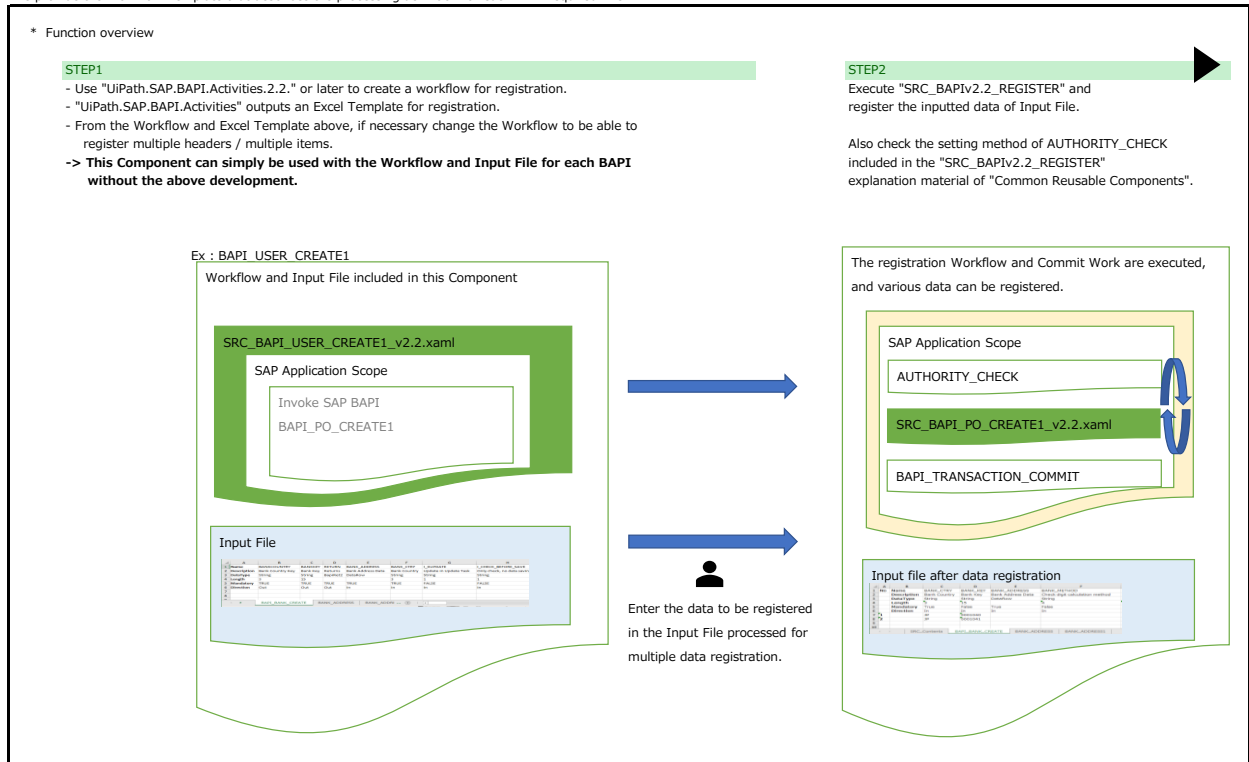
**2. About the usage**

Please check the items below before using this Workflow Template.

- This component is tested in the following environment.
  - UiPath Studio 18.4.4
  - SAP S/4HANA(1809)
  - SAP GUI for Windows Release 750
- The Workflow Template provided in the "Common Reusable Components" of UiPath Go! Must be saved together when using the UiPath Reusable Component for S/4HANA.
  - (Please also refer to the explanatory material "UiPath Reusable Component-SRC for SAP S/4HANA About usage")
- Make sure UiPath.SAP.BAPI.Activities.2.2 is installed before executing the workflow named in "v2.2" or "BAPIv2.2".
- Do not start Excel when executing.

**3. Function Image Overview**

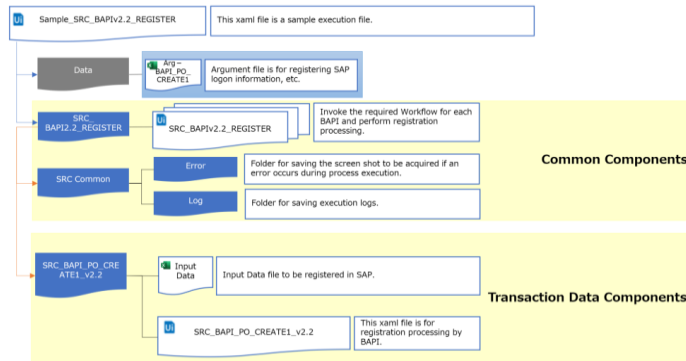
We provide the Workflow Template that describes the processing definition for each BAPI required in STEP1.



**[Data registration using]**

**\* About Folder Structure**

The following folder structure is assumed.



Sample Files are saved in the above folder structure including Sample\_SRC\_BAPIv2.2\_REGISTER, Data folder, and Argument file.

**\* About the configuration of Input Data (Data file created with SRC\_BAPI name to register multiple headers and multiple items)**

**1. SRC\_Contents**

-> List of "Import" and "Tables" displayed in Transaction Code SM37

#	A	B	C
1	Import		
2	POHEADER	LIKE	BAPIMPOHEADER Header
3	POHEADERX	LIKE	BAPIMPOHEADERX Header
4	POADDRVENDOR	LIKE	BAPIMPOADDRVENDOR Address
5	TESTTRUN	LIKE	BAPIFLAG-BAPIFLAG Test Ind
6	MEMORY_INCOMPLETE	LIKE	BAPIFLAG-BAPIFLAG Hold Pu
7	MEMORY_COMPLETE	LIKE	BAPIFLAG-BAPIFLAG Hold Pu
8	POCKPMHEADER	LIKE	BAPIFIELD Export I
9	POCKPMHEADERX	LIKE	BAPIFIELD Foreign
10	VERBODEN	LIKE	BAPIMPFYIM Version
11	SRC_Contents	LIKE	BAPIMPOCREATE1 POHEADER POHEADERX

**2. BAPI\_PO\_CREATE1**

-> Worksheet of BAPI name for registering information that holds only one item per header when using that BAPI.

#	Name	TESTTRUN	MEMORY_INCOMPLETE	MEMORY_COMPLETE	NO_MES
1	Description	Test Ind: Hold Purchase Order if Faulty Hold Purchase Order if NOT if No mess			
2	DataType	String	String	String	String
3	Length	1	1	1	1
4	Mandatory	False	False	False	False
5	Optional	In	In	In	In
6	SRC_Contents	LIKE	BAPIMPOCREATE1	POHEADER	POHEADERX

**3. POHEADER**

-> 1. SRC\_Contents, 2. BAPI\_XXX\_XXX (BAPI name worksheet), 4. About worksheets other than SRC\_Log

In Transaction Code SM37, worksheet is created for each parameter name displayed in the list of "Import" and "Tables".

#	No	Name	PO_NUMBER	COMP_CODE	DOC_TYPE
1	Description	Purchasing Document Number Company Code Purchasing Document			
2	DataType	String	String	String	String
3	Length	50	4	4	4
4	Mandatory	no	no	no	no
5	Optional	In	In	In	In
6	SRC_Contents	LIKE	BAPIMPOCREATE1	POHEADER	POHEADERX

In "No", enter a number to identify the header data.

When registering multiple information for one header, enter the same value for header in "No" as shown below to determine which header information to be registered for multiple items.

#	No	Name	PO_ITEM	DELETE_IND	
1	Description	Item Number of Purchasing Document Deletion indicator in p			
2	DataType	String	String	String	
3	Length	5	5	1	
4	Mandatory	no	no	no	
5	Optional	In	In	In	
6	SRC_Contents	LIKE	BAPIMPOCREATE1	POHEADER	POHEADERX

"No" does not need to be a sequential number, so you can register it using the slip number or item code.

**4. SRC\_Log**

-> Worksheet created after registration processing. Contains the processing result log.

#	Date/Time	Status	Msg	SAP Message
1	2019-09-25 09:22:42	S	1	Felds-M-06 LogMessageN
2	2019-09-25 09:22:42	W	1	Felds-M-06 LogMessageN
3	2019-09-25 09:22:42	I	1	meld-M-06 LogMessageN
4	2019-09-25 09:22:42	I	1	meld-M-06 LogMessageN
5	2019-09-25 09:22:42	W	1	Felds-M-06 LogMessageN
6	2019-09-25 09:22:42	I	1	Felds-M-06 LogMessageN
7	2019-09-25 09:22:42	W	1	Felds-M-06 LogMessageN
8	2019-09-25 09:22:42	W	1	meld-M-06 LogMessageN
9	2019-09-25 09:22:42	W	1	meld-M-06 LogMessageN
10	2019-09-25 09:22:42	W	1	meld-M-06 LogMessageN

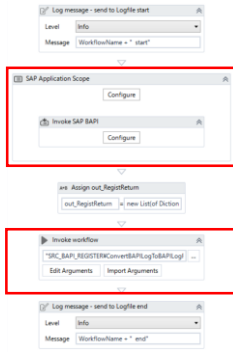


**[Data registration using BAPI Workflow configuration]**

**1. Overview**

The workflow when registering data using BAPI is configured with the following pattern.

**2. Basic configuration**



"Invoke SAP BAPI" is placed in "SAP Application Scope".  
 Access SAP with "SAP Application Scope"  
 Execute BAPI with "Invoke SAP BAPI".  
 In Workflow provided by this Component, all items in the BAPI are set in our SAP environment.  
 Depending on the SAP environment, the items may differ even for the same BAPI.  
 Please modify the "Invoke SAP BAPI" Configure and the Input File.

Since the format of the result varies depending on each BAPI,  
 "ConvertBAPILogToBAPILogFormat.xml" incorporates processing to support the expected pattern.

**3. Additional processing**

In addition to basic configuration processing, individual processing is added to the workflow described as "Additional processing" in the following list.

NO	Workflow Name	Function	Additional processing			
7	SRC_BAPI_REQUISITION_CREATE_v2.2	BAPI_REQUISITION_CREATE : Create Purchase Requisition				
8	SRC_BAPI_PO_CREATE1_v2.2	BAPI_PO_CREATE1 : Create Purchase Order				
9	SRC_BAPI_PO_CHANGE_v2.2	BAPI_PO_CHANGE : Change Purchase Order				
10	SRC_BAPI_GOODSMVT_CREATE_v2.2	BAPI_GOODSMVT_CREATE : Post Goods Movements with MB_CREATE_GOODS_MOVEMENT	1	3		
11	SRC_BAPI_GOODSMVT_CANCEL_v2.2	BAPI_GOODSMVT_CANCEL : Reverse Goods Movements with MB_CANCEL_GOODS_MOVEMENT	1	3		
12	SRC_BAPI_INCOMINGINVOICE_CREATE_v2.2	BAPI_INCOMINGINVOICE_CREATE : Invoice Verification: Post Incoming Invoice	1	3		
13	SRC_BAPI_INCOMINGINVOICE_CANCEL_v2.2	BAPI_INCOMINGINVOICE_CANCEL : Invoice Verification: Reverse Invoice	1	3		
14	SRC_BAPI_RESERVATION_CREATE1_v2.2	BAPI_RESERVATION_CREATE1 : BAPI to Create Individual Reservations				
15	SRC_BAPI_RESERVATION_DELETE_v2.2	BAPI_RESERVATION_DELETE : BAPI to Delete Individual Reservations				
16	SRC_BAPI_MATPHYSINV_CREATE_MULT_v2.2	BAPI_MATPHYSINV_CREATE_MULT : Create Physical Inventory Document				
17	SRC_BAPI_MATPHYSINV_COUNT_v2.2	BAPI_MATPHYSINV_COUNT : Enter Count for Certain Items of a Physical Inventory Document				
18	SRC_BAPI_MATPHYSINV_POSTDIFF_v2.2	BAPI_MATPHYSINV_POSTDIFF : Post differences for certain items in a phys. inv. Document				
19	SRC_BAPI_SALESORDER_CREATEFROMDAT2_v2.2	BAPI_SALESORDER_CREATEFROMDAT2 : Sales Order: Create Sales Order				
20	SRC_BAPI_SALESORDER_CHANGE_v2.2	BAPI_SALESORDER_CHANGE : Sales order: Change Sales Order				
21	SRC_BAPI_OUTB_DELIVERY_CREATE_SLS_v2.2	BAPI_OUTB_DELIVERY_CREATE_SLS : Generates Delivery for Customer Order	1			
22	SRC_BAPI_OUTB_DELIVERY_CHANGE_v2.2	BAPI_OUTB_DELIVERY_CHANGE : BAPI for Change to Outbound Delivery	1	3		
23	SRC_LE_DELIVERY_UPDATE_v2.2	LE_DELIVERY_UPDATE : calls WS_DELIVERY_UPDATE_2 and returns additional data	2			
24	SRC_BAPI_BILLINGDOC_CREATEMULTIPLE_v2.2	BAPI_BILLINGDOC_CREATEMULTIPLE : Create Individual Customer Billing Document	1			
25	SRC_BAPI_BILLINGDOC_CANCEL1_v2.2	BAPI_BILLINGDOC_CANCEL1 : Cancel Customer Individual Billing Document	1			
26	SRC_BAPI_PRODORD_CREATE_v2.2	BAPI_PRODORD_CREATE : BAPI: Generate Production Order				4 5
27	SRC_BAPI_PRODORD_RELEASE_v2.2	BAPI_PRODORD_RELEASE : BAPI: Release Production Orders				4
28	SRC_BAPI_ROUTING_CREATE_v2.2	BAPI_ROUTING_CREATE : Creation of a routing				4
29	SRC_BAPI_PLANNEDORDER_CREATE_v2.2	BAPI_PLANNEDORDER_CREATE : Create planned order				4
30	SRC_BAPI_PLANNEDORDER_DELETE_v2.2	BAPI_PLANNEDORDER_DELETE : Delete planned order				4
31	SRC_BAPI_PRODORDCONF_CREATE_TT_v2.2	BAPI_PRODORDCONF_CREATE_TT : Enter Confirmation Time Ticket	1			4
32	SRC_BAPI_PRODORDCONF_CANCEL_v2.2	BAPI_PRODORDCONF_CANCEL : Cancel Production Order Confirmation				5
33	SRC_BAPI_ACC_DOCUMENT_POST_v2.2	BAPI_ACC_DOCUMENT_POST				
34	SRC_BAPI_ACC_DOCUMENT_REV_POST_v2.2	BAPI_ACC_DOCUMENT_REV_POST				
35	SRC_BAPI_ASSET_ACQUISITION_POST_v2.2	BAPI_ASSET_ACQUISITION_POST : Post Asset Acquisition				4
36	SRC_BAPI_ASSET_REVERSAL_POST_v2.2	BAPI_ASSET_REVERSAL_POST : Post Asset Document Reversal				4
37	SRC_BAPI_KEYFIGURE_CREATEMULTIPLE_v2.2	BAPI_KEYFIGURE_CREATEMULTIPLE : Create One or More Statistical Key Figures			3	
38	SRC_BAPI_ACC_STAT_KEY_FIG_POST_v2.2	BAPI_ACC_STAT_KEY_FIG_POST : Accounting: Post Statistical Key Figures				
39	SRC_BAPI_INCOMINGINVOICE_PARK_v2.2	BAPI_INCOMINGINVOICE_PARK : Invoice Verification: Park Incoming Invoice			3	
42	SRC_RFC_SAVE_TEXT_v2.2	Register TEXT(Long) using the function module: RFC_SAVE_TEXT			3	

Additional processing : Pattern [1]

If the document is registered with reference to other documents/details, there is a possibility to lock BAPI according to processing speed.  
Therefore, about BAPI which is [1] in "Additional processing" of the above list,  
In addition to the basic configuration, it is configured to execute the process repeatedly (up to 5 times) until the lock is released.  
( It is possible to set "Delay Time" in CheckRetryCase.xml in SRC\_BAPIv2.2\_REGISTER included in SRC Common Components.  
If it the error occurred, wait for several seconds and retry BAPI.)

Additional processing : Pattern [2]

To register using the function module that possible to updated externally, it is necessary to set pre-processing and post-processing according to the environment.

Example : LE\_DELIVERY\_UPDATE

In the same function module, picking and goods issue confirmation processing is completed.

Get the exception message when an error occurs SAP. (If the message does not occurred, the processing is set Successful completion.)

**In our environment, Additional processing: pattern [2] is set because of the data inconsistency.**

**When using this BAPI, please add appropriate logic according to each environment so that data inconsistency does not occur.**

- Picking quantity can exceed shipping quantity to process  
-> This cause is the method of the reorganization of the decimal point when creating Excel worksheet, and setting decimal system of the user who executes BAPI.  
Even if data is entered correctly, the error might occur. Be sure to add settings that are appropriate for your environment.  
(It is created so that the error will occur if you do not add and use it.)
- Multiple shipment confirmation documents are generated for one shipment and one picking  
-> When executing the commit process after the test, multiple shipment confirmation documents could be registered.  
Therefore, BAPI\_TRANSACTION\_COMMIT is always executed as a countermeasure.
- VBELN\_VL (shipment document) of the same worksheet as VBELN (continuation document for sales management) of VBPOK\_TAB is completed process even if the other Number and missing Number.  
-> Since no message is output from SAP, this function ends normally.  
However, it has been confirmed that the goods issue confirmation cannot be completed for the goods issue document and status such as archived is entered.  
When using this BAPI, please use it after adding the necessary check logic when importing input data.

Additional processing : Pattern [3]

When the process ends normally, the processing result is a blank BAPI.

A configuration is added to display the required processing results for each type of RETURN.

Additional processing : Pattern [4]

RETURN is a BAPI that does not output the required results such as the document number, although the processing result is entered, not blank.

An item to output necessary information to Log for each BAPI has been added.

Additional processing : Pattern [5]

When the process is completed normally, the process result message is "000".

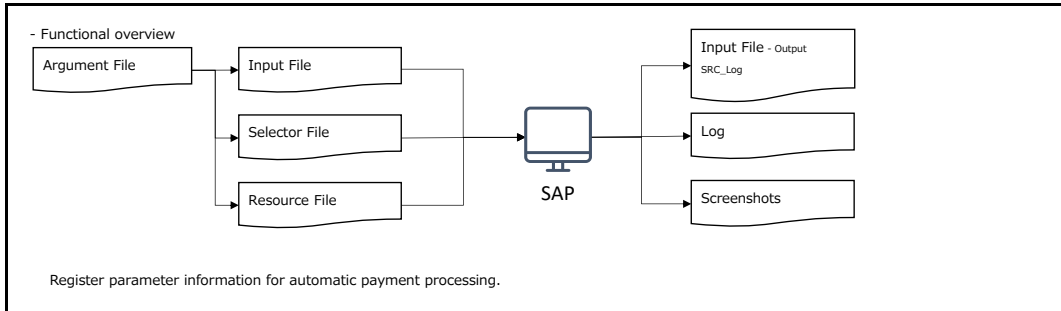
A fixed message is added and output to the log so that it can be determined that the process ended normally.

## [SRC PAYMENT PRMT CRT] Explanatory Material

### 1. Overview

Register the parameter information for automatic payments from Transaction Code: F110.

### 2. Concept of the reusable component



### 3. How to use

It is necessary that the following Argument information is inputted in Argument File.  
(Please input all Argument File as String)

[ Input ]

Property Name	Description	Required Input
InputFilePath	Input File save destination and file name (Set the relative path or complete path.)	
SelectorFilePath	Selector data file save destination and file name (Set a relative or complete path.)	Yes
ResourceFilePath	Resource data file save destination and file name (Set a relative or complete path.)	Yes
ScreenshotsFolderPath	Error screenshot file save location and file name (Set the relative path or complete path.)	Yes
LogFolderPath	Log data file save destination (Set a relative or complete path.)	Yes
LogFileName	Log data file name (The time stamp [YYYYMMDD_HHMMSS] is added to the beginning of the file name. Example: 190722_114045_SRC_Result.log)	Yes

### 4. Notes

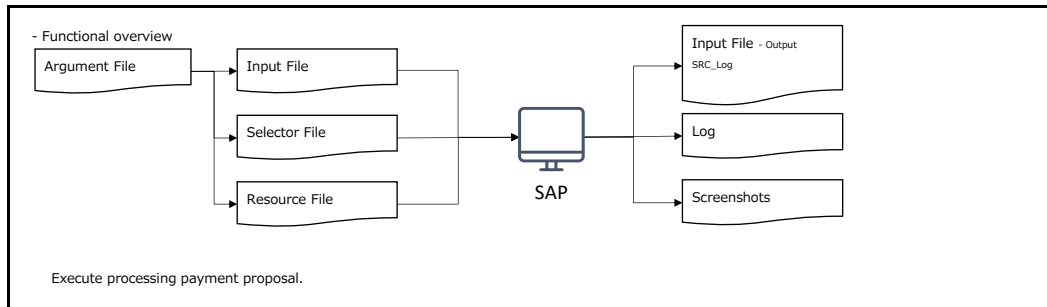
- Do not start Excel when executing.
- Code display are required for items in the drop-down list. Select "Show keys within dropdown list" in GUI Interactive Design settings.
- The Workflow Template provided in the "Common Reusable Components" of UiPath Go! Must be saved together when using the UiPath Reusable Component for S/4HANA.
- Log on to SAP and display the screen.

## [SRC PAYMENT PROPOSAL] Explanatory Material

### 1. Overview

Execute processing payment proposal from Transaction Code: F110.

### 2. Concept of the reusable component



### 3. How to use

It is necessary that the following Argument information is inputted in Argument File.  
(Please input all Argument File as String)

[ Input ]

Property Name	Description	Required Input
InputFilePath	Input File save destination and file name (Set the relative path or complete path.)	Yes
SelectorFilePath	Selector data file save destination and file name (Set a relative or complete path.)	Yes
ResourceFilePath	Resource data file save destination and file name (Set a relative or complete path.)	Yes
ScreenshotsFolderPath	Error screenshot file save location and file name (Set the relative path or complete path.)	Yes
LogFolderPath	Log data file save destination (Set a relative or complete path.)	Yes
LogFileName	Log data file name (The time stamp [YYYYMMDD_HHMMSS] is added to the beginning of the file name. Example: 190722_114045_SRC_Result.log)	Yes
ProposalExportFilePath	File path to output payment proposal results. Example : SRC_PAYMENT_RUN#Data#PaymentResult_{0}_{1}.xlsx ("{0}" is execution date, "{1}" is change to the ID)	Yes
OverwriteFlag	If the export file already exists, it will be overwritten.	

### 4. Notes

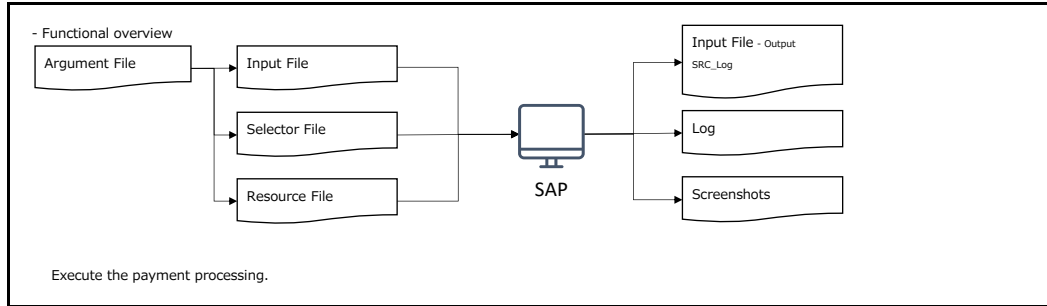
- Do not start Excel when executing.
- Code display are required for items in the drop-down list. Select "Show keys within dropdown list" in GUI Interactive Design settings.
- The Workflow Template provided in the "Common Reusable Components" of UiPath Go! Must be saved together when using the UiPath Reusable Component for S/4HANA.
- Log on to SAP and display the screen.

## [SRC PAYMENT RUN] Explanatory Material

### 1. Overview

Execute the payment processing from Transaction Code: F110.

### 2. Concept of the reusable component



### 3. How to use

It is necessary that the following Argument information is inputted in Argument File.  
(Please input all Argument File as String)

[ Input ]

Property Name	Description	Required Input
InputFilePath	Input File save destination and file name (Set the relative path or complete path.)	Yes
SelectorFilePath	Selector data file save destination and file name (Set a relative or complete path.)	Yes
ResourceFilePath	Resource data file save destination and file name (Set a relative or complete path.)	Yes
ScreenshotsFolderPath	Error screenshot file save location and file name (Set the relative path or complete path.)	Yes
LogFolderPath	Log data file save destination (Set a relative or complete path.)	Yes
LogFileName	Log data file name (The time stamp [YYYYMMDD_HHMMSS] is added to the beginning of the file name. Example: 190722_114045_SRC_Result.log)	Yes
ProposalExportFilePath	File path to output payment proposal results. Example : SRC_PAYMENT_RUN\Data¥PaymentResult_{0}_{1}.xlsx ("{0}" is execution date, "{1}" is change to the ID)	Yes
OverwriteFlag	If the export file already exists, it will be overwritten.	

### 4. Notes

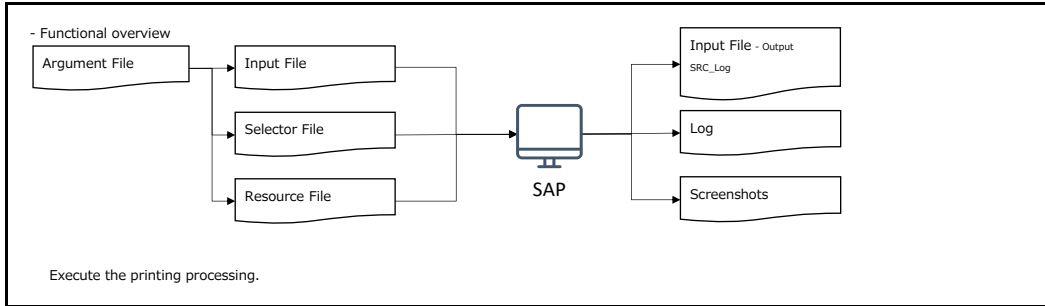
- Do not start Excel when executing.
- Code display are required for items in the drop-down list. Select "Show keys within dropdown list" in GUI Interactive Design settings.
- The Workflow Template provided in the "Common Reusable Components" of UiPath Go! Must be saved together when using the UiPath Reusable Component for S/4HANA.
- Log on to SAP and display the screen.

## [SRC PAYMENT PRINT] Explanatory Material

### 1. Overview

Execute the printing processing from Transaction Code: F110.

### 2. Concept of the reusable component



### 3. How to use

It is necessary that the following Argument information is inputted in Argument File.  
(Please input all Argument File as String)

[ Input ]

Property Name	Description	Required Input
InputFilePath	Input File save destination and file name (Set the relative path or complete path.)	Yes
SelectorFilePath	Selector data file save destination and file name (Set a relative or complete path.)	Yes
ResourceFilePath	Resource data file save destination and file name (Set a relative or complete path.)	Yes
ScreenshotsFolderPath	Error screenshot file save location and file name (Set the relative path or complete path.)	Yes
LogFolderPath	Log data file save destination (Set a relative or complete path.)	Yes
LogFileName	Log data file name (The time stamp [YYYYMMDD_HHMMSS] is added to the beginning of the file name. Example: 190722_114045_SRC_Result.log)	Yes
PrintJobLogFolderPath	Folder path of print result log (set relative or complete path)	Yes

### 4. Notes

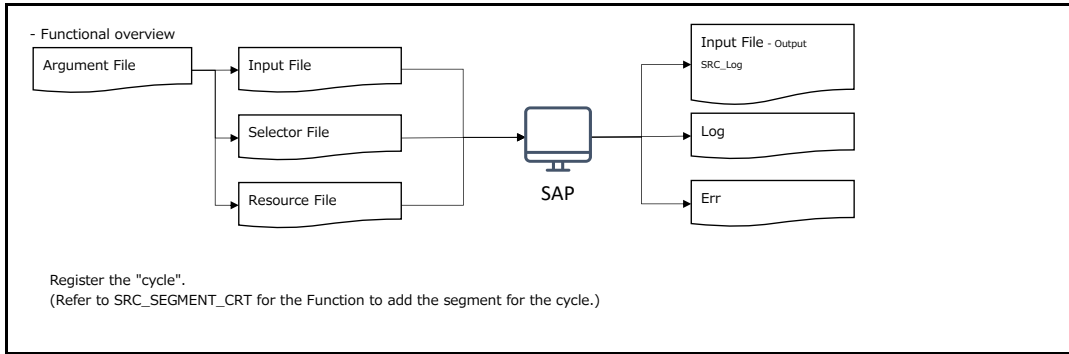
- Do not start Excel when executing.
- Code display are required for items in the drop-down list. Select "Show keys within dropdown list" in GUI Interactive Design settings.
- The Workflow Template provided in the "Common Reusable Components" of UiPath Go! Must be saved together when using the UiPath Reusable Component for S/4HANA.
- Log on to SAP and display the screen.

## [SRC\_CYCLE CRT] Explanatory Material

### 1. Overview

Register the cycle from Transaction Code: KSU1.

### 2. Concept of the reusable component



### 3. How to use

It is necessary that the following Argument information is inputted in Argument File.  
(Please input all Argument File as String)

[ Input ]

Property Name	Description	Required Input
InputFilePath	Input File save destination and file name (Set the relative path or complete path.)	Yes
SelectorFilePath	Selector data file save destination and file name (Set a relative or complete path.)	Yes
ResourceFilePath	Resource data file save destination and file name (Set a relative or complete path.)	Yes
ScreenshotsFolderPath	Error screenshot file save location and file name (Set the relative path or complete path.)	Yes
LogFolderPath	Log data file save destination (Set a relative or complete path.)	Yes
LogFileName	Log data file name (The time stamp [YYYYMMDD_HHMMSS] is added to the beginning of the file name. Example: 190722_114045_SRC_Result.log)	Yes

### 4. Notes

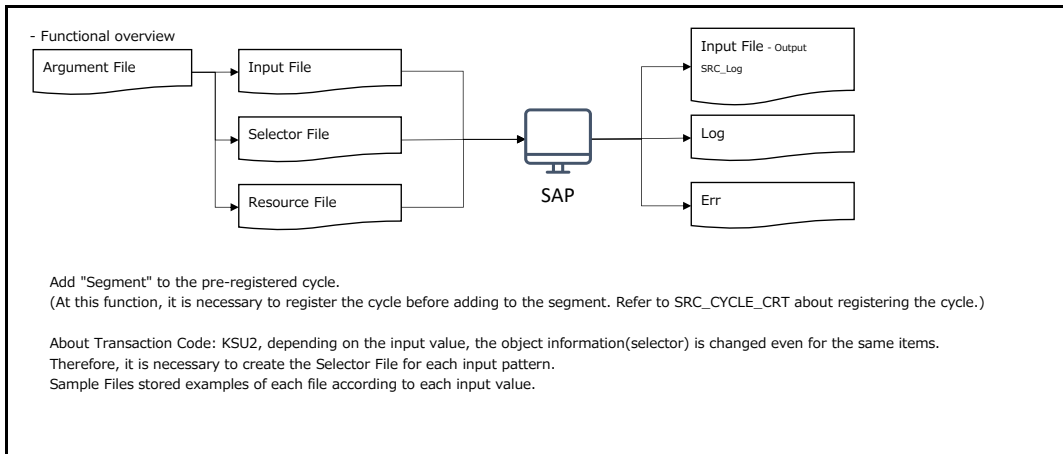
- Do not start Excel when executing.
- Code display are required for items in the drop-down list. Select "Show keys within dropdown list" in GUI Interactive Design settings.
- The Workflow Template provided in the "Common Reusable Components" of UiPath Go! Must be saved together when using the UiPath Reusable Component for S/4HANA.
- Log on to SAP and display the screen.

## [SRC\_SEGMENT CRT] Explanatory Material

### 1. Overview

Add to the segment from Transaction Code: KSU2.

### 2. Concept of the reusable component



### 3. How to use

It is necessary that the following Argument information is inputted in Argument File.  
 (Please input all Argument File as String)

[ Input ]

Property Name	Description	Required Input
InputFilePath	Input File save destination and file name (Set the relative path or complete path.)	Yes
SelectorFilePath	Selector data file save destination and file name (Set a relative or complete path.)	Yes
ResourceFilePath	Resource data file save destination and file name (Set a relative or complete path.)	Yes
ScreenshotsFolderPath	Error screenshot file save location and file name (Set the relative path or complete path.)	Yes
LogFolderPath	Log data file save destination (Set a relative or complete path.)	Yes
LogFileName	Log data file name (The time stamp [YYYYMMDD_HHMMSS] is added to the beginning of the file name. Example: 190722_114045_SRC_Result.log)	Yes

### 4. Notes

- Do not start Excel when executing.
- Code display are required for items in the drop-down list. Select "Show keys within dropdown list" in GUI Interactive Design settings.
- The Workflow Template provided in the "Common Reusable Components" of UiPath Go! Must be saved together when using the UiPath Reusable Component for S/4HANA.
- Log on to SAP and display the screen.



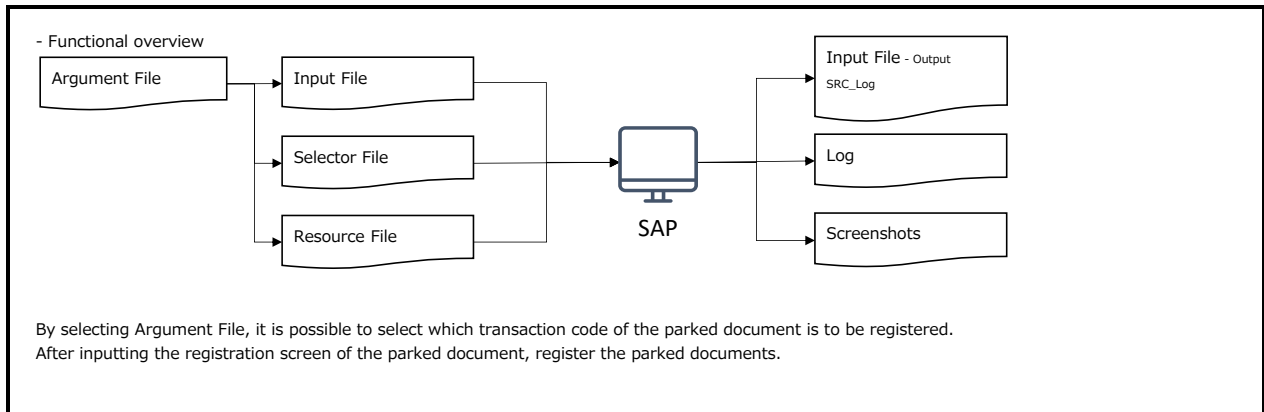
## [SRC\_PARK\_ACC] Explanatory Material

### 1. Overview

Register the parked document from Transaction code: FV50, FV60, and FV70.

### 2. Concept of the reusable component

Argument File / Input File / Selector File / Resource File are prepared for each transaction code.



### 3. How to use

It is necessary that the following Argument information is inputted in Argument File.  
(Please input all Argument File as String)

[ Input ]

Property Name	Description	Required Input
InputFilePath	Input File save destination and file name (Set the relative path or complete path.)	Yes
SelectorFilePath	Selector data file save destination and file name (Set a relative or complete path.)	Yes
ResourceFilePath	Resource data file save destination and file name (Set a relative or complete path.)	Yes
ScreenshotsFolderPath	Error screenshot file save location and file name (Set the relative path or complete path.)	Yes
LogFolderPath	Log data file save destination (Set a relative or complete path.)	Yes
LogFileName	Log data file name (The time stamp [YYYYMMDD_HHMMSS] is added to the beginning of the file name. Example: 190722_114045_SRC_Result.log)	Yes
Transaction Code	Transaction code for registering the parked document FV50 : Park G/L Account Document FV60 : Park Vendor Invoice (Vendor) FV70 : Park Customer Invoice (Customer)	Yes

### 4. Notes

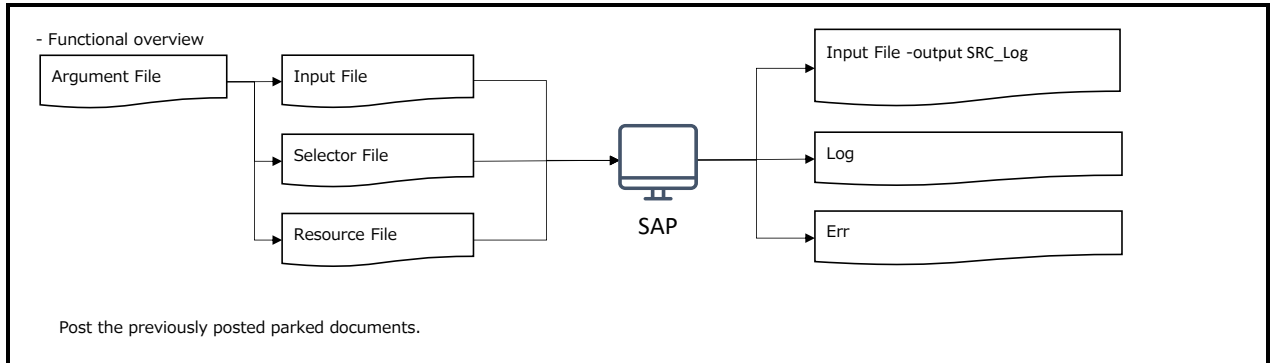
- Do not start Excel when executing.
- Code display are required for items in the drop-down list. Select "Show keys within dropdown list" in GUI Interactive Design settings.
- The Workflow Template provided in the "Common Reusable Components" of UiPath Go! Must be saved together when using the UiPath Reusable Component for S/4HANA.
- Log on to SAP and display the screen.

## [SRC\_PARK\_DOC\_POST] Explanatory Material

### 1. Overview

Post the parked document from Transaction code: FBV0.

### 2. Concept of the reusable component



### 3. How to use

It is necessary that the following Argument information is inputted in Argument File.  
(Please input all Argument File as String)

[ Input ]

Property Name	Description	Required Input
InputFilePath	Input File save destination and file name (Set the relative path or complete path.)	Yes
SelectorFilePath	Selector data file save destination and file name (Set a relative or complete path.)	Yes
ResourceFilePath	Resource data file save destination and file name (Set a relative or complete path.)	Yes
ScreenshotsFolderPath	Error screenshot file save location and file name (Set the relative path or complete path.)	Yes
LogFolderPath	Log data file save destination (Set a relative or complete path.)	Yes
LogFileName	Log data file name (The time stamp [YYYYMMDD_HHMMSS] is added to the beginning of the file name. Example: 190722_114045_SRC_Result.log)	Yes

### 4. Notes

- Do not start Excel when executing.
- Code display are required for items in the drop-down list. Select "Show keys within dropdown list" in GUI Interactive Design settings.
- The Workflow Template provided in the "Common Reusable Components" of UiPath Go! Must be saved together when using the UiPath Reusable Component for S/4HANA.
- Log on to SAP and display the screen.