

HP OO SAP Guide

For the Windows operating system

Software Version: HP OO SAP Content 2.0.0 for HP OO Version 10.x

SAP Guide

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SAP Integration Introduction

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Purpose of the SAP Integration

This integration enables administrators to create HP Operations Orchestration (OO) flows that are integrated with SAP.

To learn how to create OO flows, see Studio Guide to Authoring Operations Orchestration Flows in the documentation set for the current OO release.

This document explains how this integration has been implemented, and how the integration's operations and flows communicate between HP OO and SAP.

Audience

This guide is intended for system administrators who establish and maintain the implementation of the integration between HP OO and SAP. This guide assumes that you have administrative access to both systems.

Prerequisites

To use this integration successfully, you should have administrator-level knowledge of the SAP, the SAP BAPIs, and the RFCs.

Supported Versions

Content Pack	Operations Orchestration Platform Version	SAP Versions
SAP Content Version 2.0.0	10.x	SAP ECC 6.0

Getting Started with the SAP Integration

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What You Need to Know About SAP Before Using the Integration

SAP helps companies of all sizes and industries run more efficiently. From back office to boardroom, warehouse to storefront, desktop to mobile devices, SAP empowers people and organizations to work together more efficiently in order to stay ahead of the competition. This is accomplished by extending the availability of software across on-premise installations, on-demand deployments, and mobile devices.

SAP Use Cases

The following are the major use cases for the SAP integration, and the operations and flows that you can use to implement them.

Execute a Remote Function Call that invokes any given BAPI:

- Invoke SAP BAPI

Execute a Remote Function Call that invokes a specific BAPI:

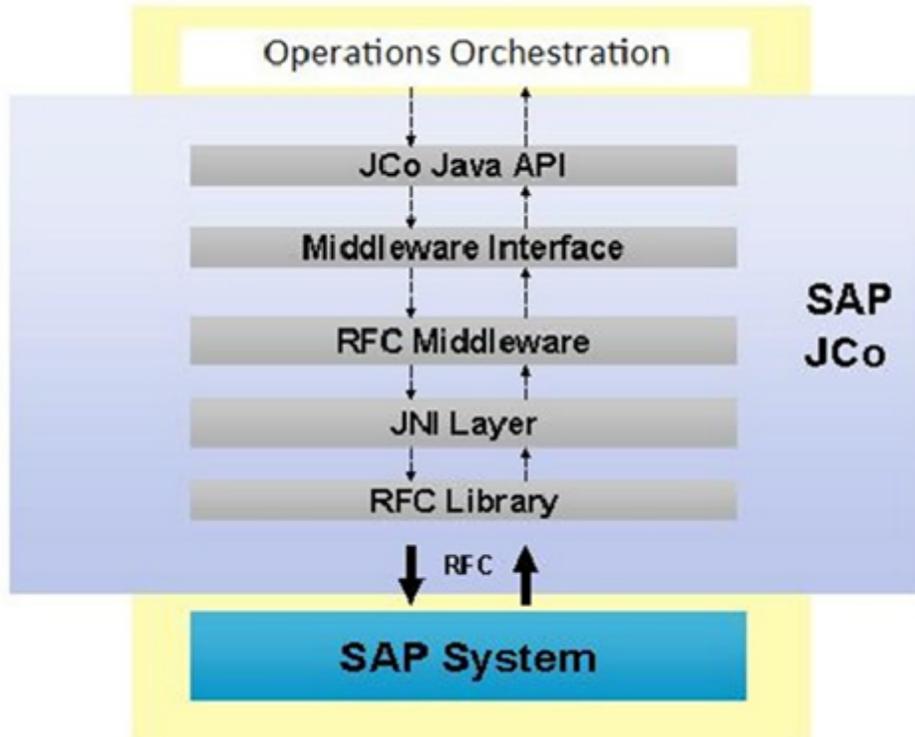
- BapiObjectMethod (for example, BapiUserGetlist)

OO – SAP Integration Architecture

The OO SAP Integration uses RFCs (Remote Function Calls) to enable the communication between a SAP system and Operations Orchestration. RFC is the standard SAP interface for communicating with SAP systems by calling a function to be executed on a remote system. The function call is based on synchronous communication, meaning that the SAP system must be available at the time the call is made in order to be executed successfully.

Remote Function Calls can be used to invoke BAPIs (Business Application Programming Interfaces). Stored in the Business Object Repository, BAPIs are methods of SAP business object types that provide access to processes and data in business application systems.

To interact with the SAP system and execute specific BAPIs, the SAP Java Connector is used as a middleware component. In the OO – SAP Integration, the SAP Java Connector supports communication with the SAP Server, as shown in the figure below.



SAP Terminology

The following terms are used in the SAP Integration Guide:

BAPI. BAPIs (Business Application Programming Interfaces) are defined as methods of SAP business object types. The BAPIs are standardized with full stability guarantees for their content and interface, to provide access to processes and data in the SAP System.

BOR. The Business Object Repository is the repository that contains all SAP business object types and SAP interface types as well as their components, such as methods, attributes, and events.

Business Object. A business object is a general category for data (for example, employee, order, purchase requisition, or organizational unit).

Function module. A procedure that is defined in special ABAP programs, that plays an important role in interaction between SAP systems and remote systems through remote communication.

Method. A clearly defined interface that is revealed to the outside so that applications can access the Business Object data. When a method is executed on a Business Object, it can change the object's internal state, that is, the object's data (for example, one method that you can use on the Business Object "Employee" is to "check for the employee's existence").

RFC. RFC (Remote Function Call) is the standard SAP interface for communication between SAP systems. RFC calls a function to be executed on a remote system.

Access the Available BAPIs in the SAP System

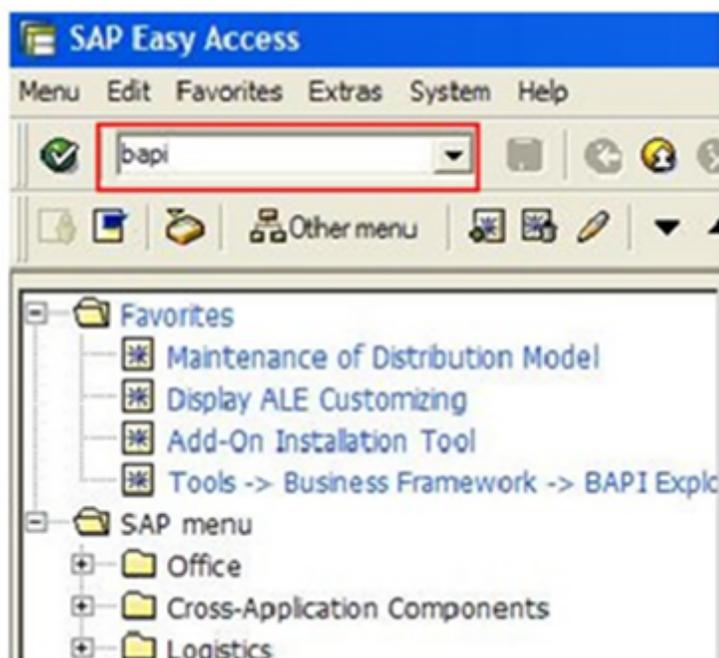
To access the BAPIs available in the SAP system:

1. In the SAP Easy Access window, browse to SAP menu/Tools/Business Framework/BAPI Explorer

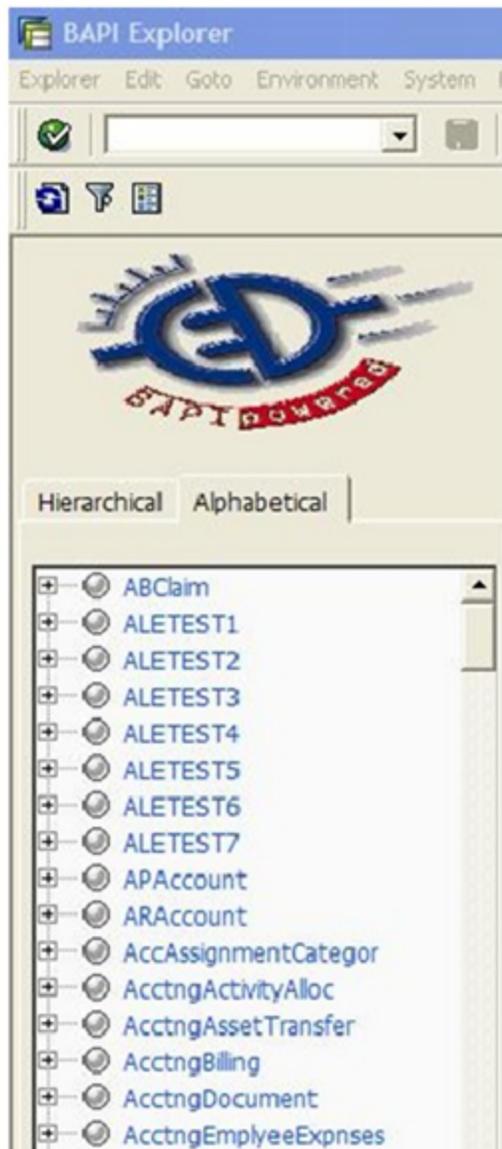
Or

Enter the associated transaction code.

The list of BAPIs is displayed in a hierarchical view.



2. Click the Alphabetical tab to view the BAPIs and their associated Business Objects. The list is sorted alphabetically according to the available objects.



3. Click the Filter button  to view a full or partial list of BAPIs. In the BAPIs to display window, select All to display all BAPIs and only released (the default) to display only the released BAPIs..



4. Expand the required Business Object in the list to view its associated methods.
5. Select the required method to view its Function module value in the Detail tab. This is the value of the BAPI parameter used in the OO - SAP Integration.

SAP Connector Installation Instructions

After installing the HP SAP Content Pack, the Java Connector (JCo) must be added before attempting to execute the operation. A summary of the installation instructions are also provided in the generic operation's description tab, under the **Notes** section.

Prior to using this operation, follow the steps below:

1. Download the SAP Java Connector (JCo) from the SAP Service Marketplace at <http://service.sap.com/connectors> where you can find all available distribution packages for the various supported platforms and processors.
2. Install JCo by unzipping the appropriate distribution package into an arbitrary directory **{sapjco3-install-path}**:
3. Add **{sapjco3-install-path}** to the PATH environment variable.
4. In the HP Third Party Content Pack, add the **sapjco.jar** and **sapjco.dll** in the maven repository. For details on this procedure, check the "Adding JARs and DLLs" section in the Third Party Content Pack Release Notes.

In addition, the corresponding Excluded Third Party Content for HP OO SAP Integration can be found below:

Original Name	New Name	groupId	artifactId	Version
sapjco3.jar	sapjco3-3.0.7.jar	com.sap	sapjco3	3.0.7
sapjco3.dll	sapjco3-7200.88.18.64609.dll	com.sap	sapjco3	7200.88.18.64609

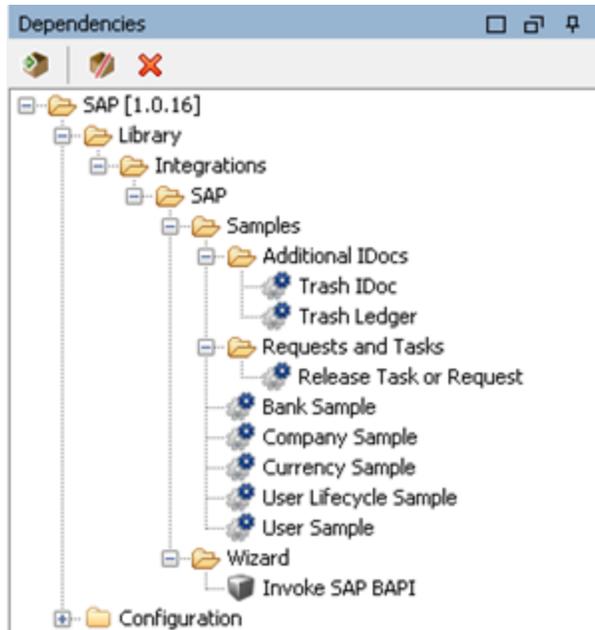
5. Deploy the HP Third Party Content Pack.

HP SAP Content Pack

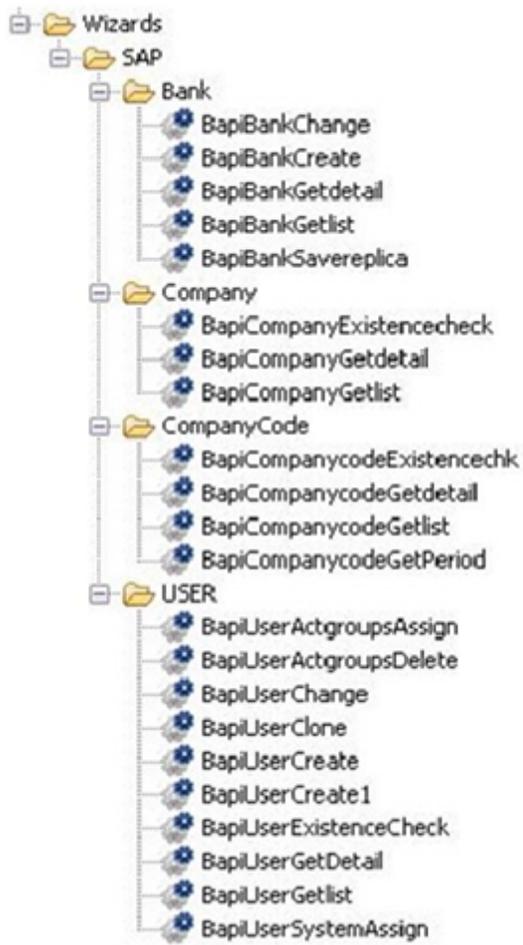
You must deploy the HP SAP Content Pack version 2.0.0 on an existing OO platform version of 10.x. The SAP Content Pack (oo10-sap-cp) is dependent on the Base Content Pack (oo10-base-cp).

For details on deploying a content pack, see "Importing Content Packs to a Project" in the *Studio Authoring Guide* and "Deploying a Content Pack" in the *Central User Guide*.

The SAP integration is included in the HP SAP Content Pack, and it contains the generic Invoke SAP BAPI operation and sample flows in the OO Studio **Library/Integrations/SAP/** folder.



To create customized flows for BAPIs, you must run the SAP Wizard. After running the SAP Wizard and generating customized flows for the requested BAPIs, you must add the created flows to OO Studio by importing the studio project that contains them. The generated flows are placed under the folder that you select when running the wizard. The default location where the flows will be placed is under the **Library/Wizards/SAP/** folder, but you have the option of selecting a different library location.



Creating SAP Integration Flows with SAP Wizard

This chapter includes:

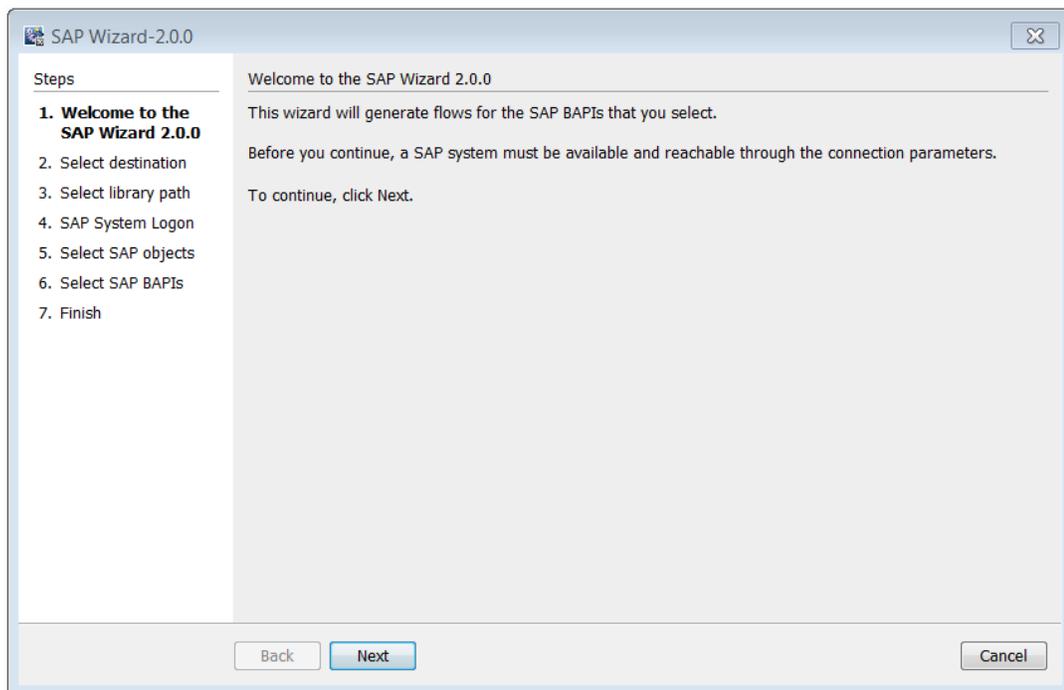
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Using the SAP Wizard to Create OO Flows for Selected BAPIs

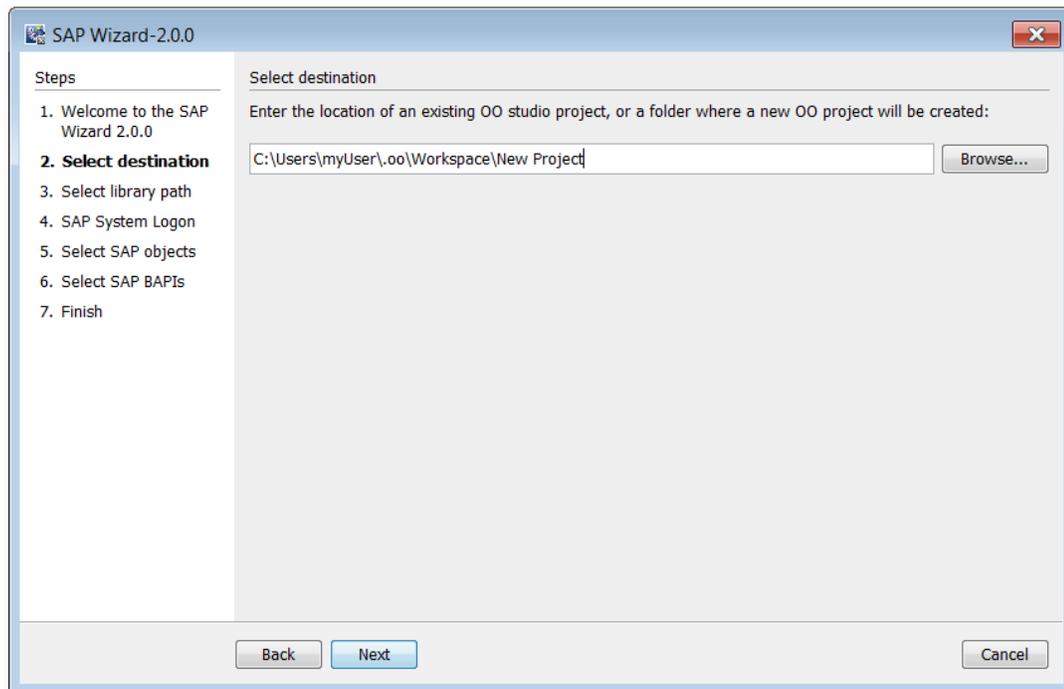
The SAP Wizard creates OO flows based on the BAPIs available in the SAP system, which you specify when you run the wizard. To start the wizard, run the **sap-wizard.bat** file. For details, see ["SAP Connector Installation Instructions" on page 12](#).

To use the SAP Wizard to create an OO flow for a BAPI:

1. Start the SAP Wizard to open the Welcome page.



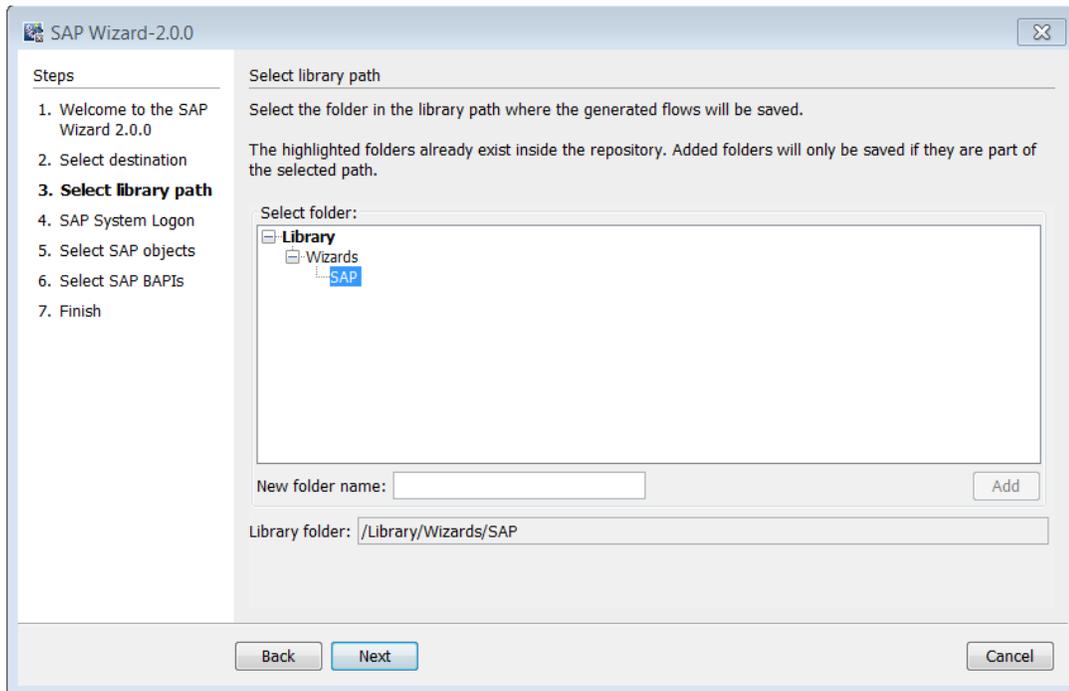
2. Click **Next** to open the Select Destination page.



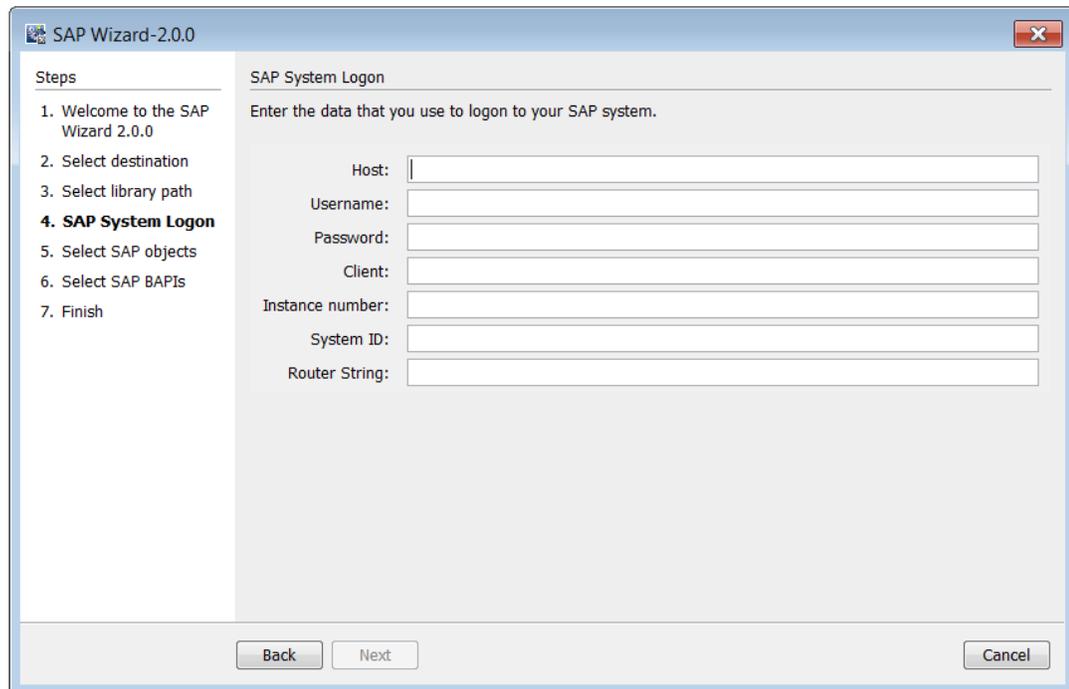
Here you need to select the location of an existing studio project, or a folder where the new project will be created.

3. Enter or select a location of a Studio project for the flows you want to create, and then click **Next**.

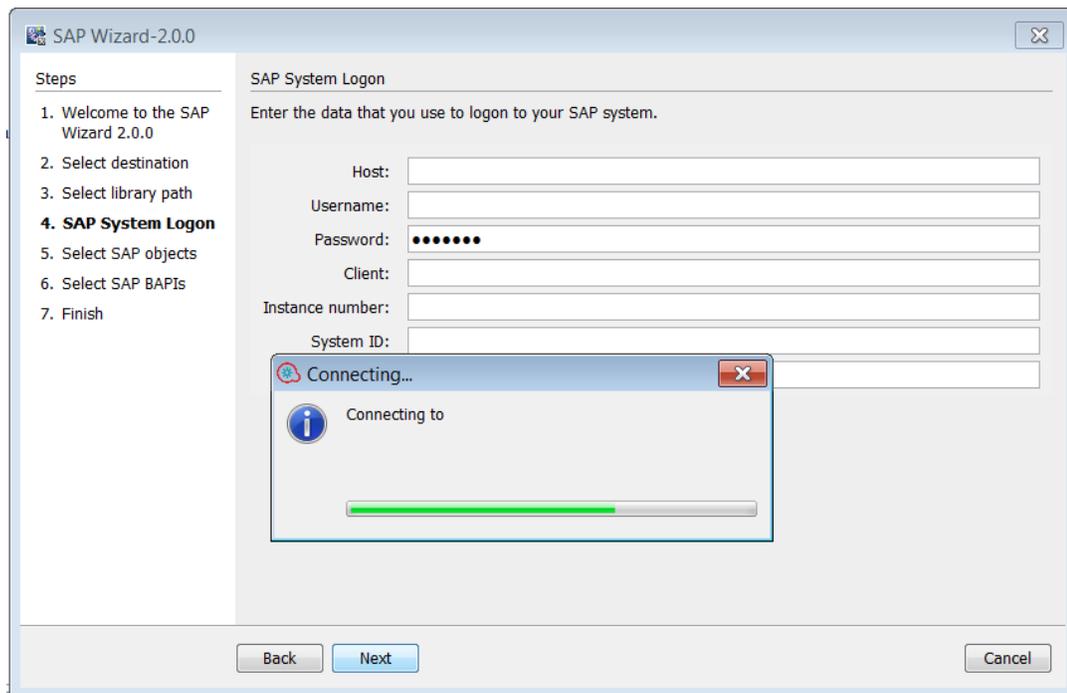
The library path selection page appears.



After selecting the library location for the generated flows, the logon page opens.

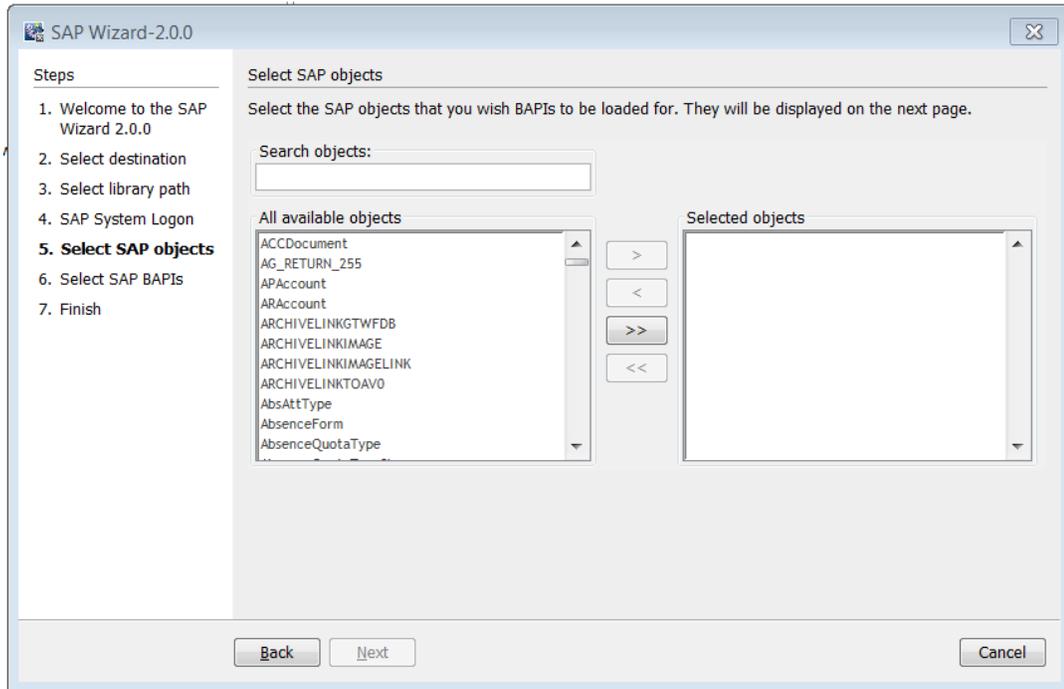


4. Enter the inputs and wait for the connection to be established.

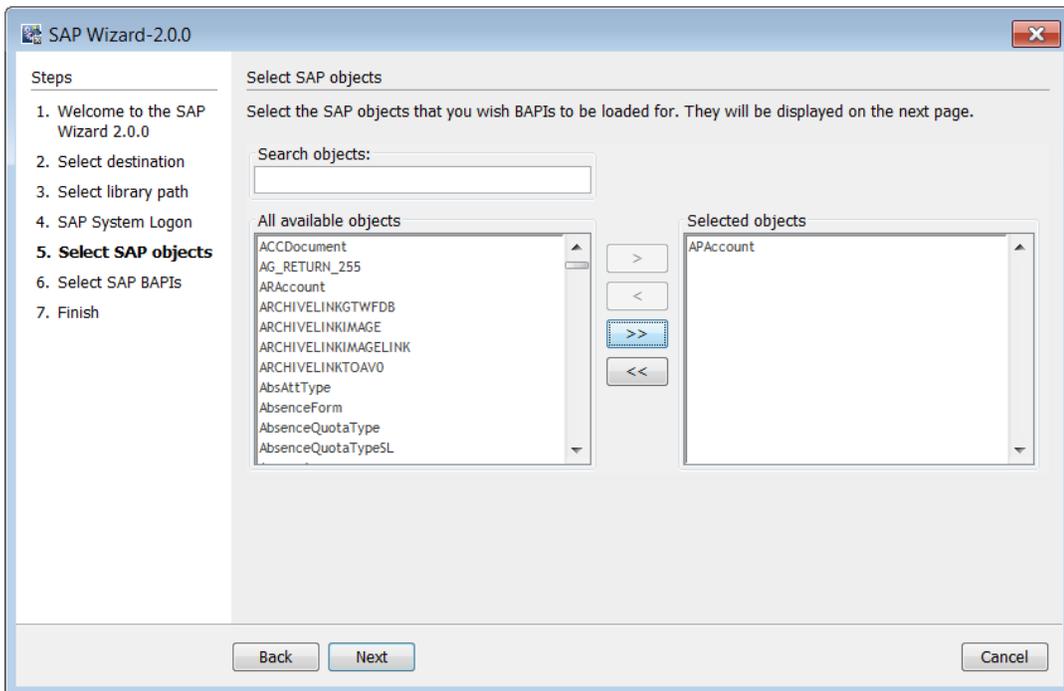


If the connection succeeds, the next page lists all the Business Objects in the specified SAP system.

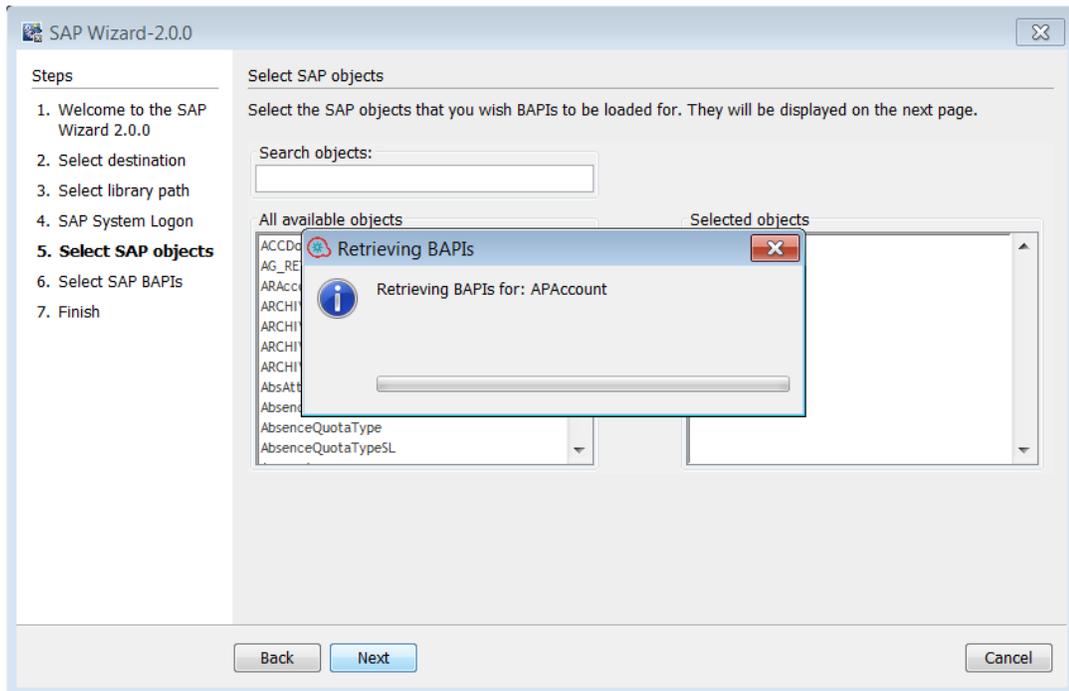
Note: All available objects are included in the available objects list, although some may not have associated BAPIs. The search mechanism enables you to filter the list of objects based on the search term.



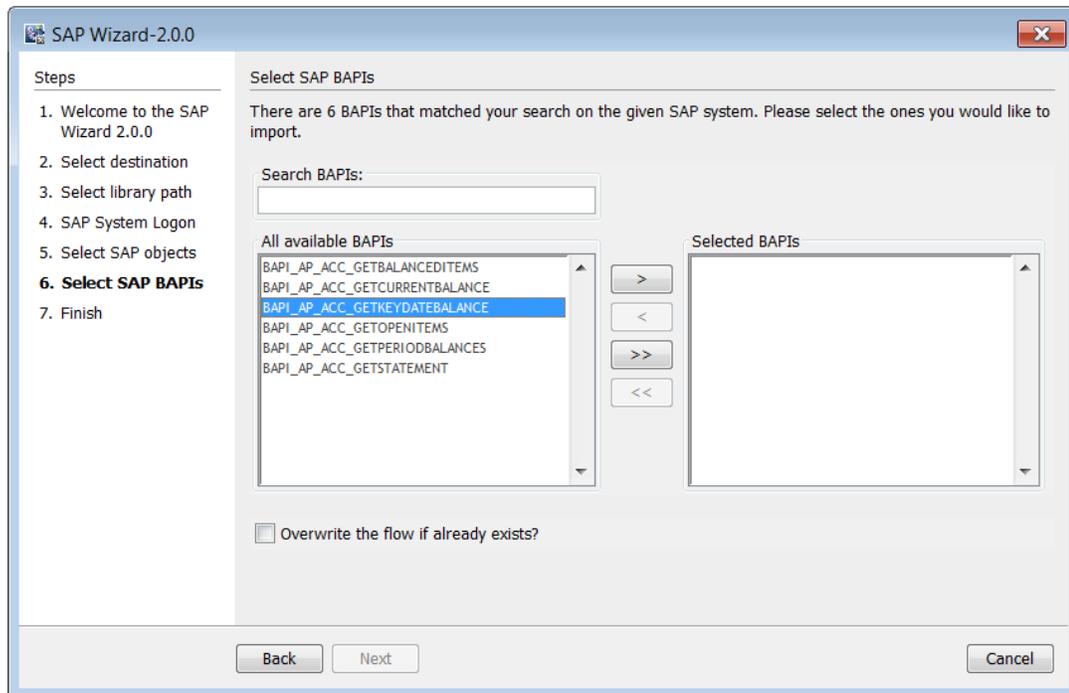
5. Select the Business Objects that have the BAPIs for which you want to create flows.



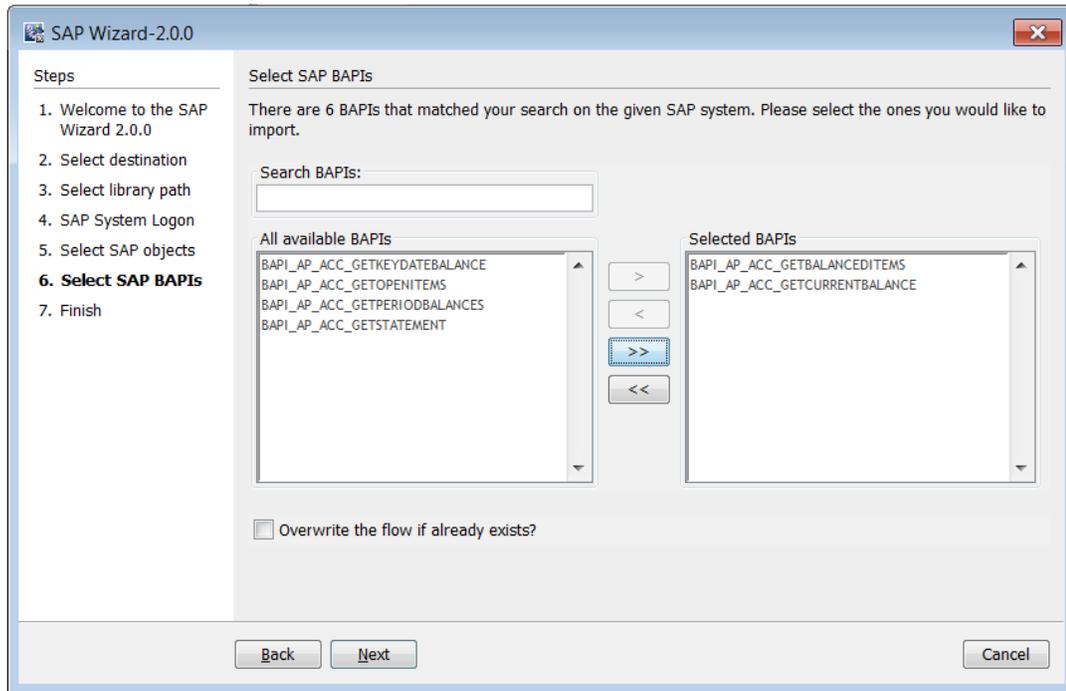
6. Click Next. The BAPIs related to the selected Business Object are retrieved.



After the required BAPIs have been retrieved, the SAP Wizard lists all the BAPIs of the selected Business Objects.

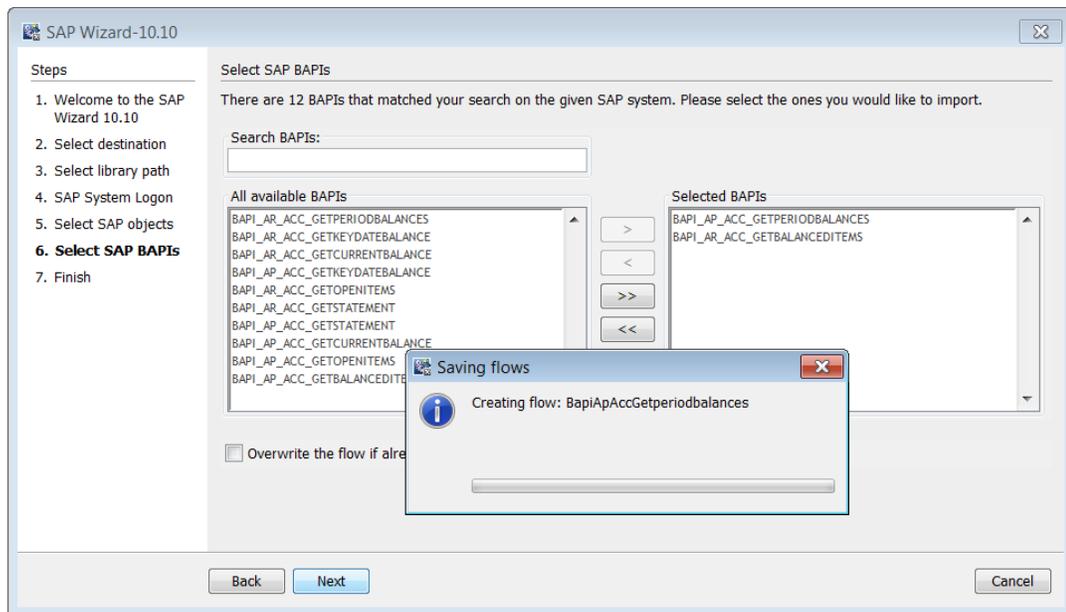


7. Select the BAPIs for which you want to generate customized flows, and then click Next.

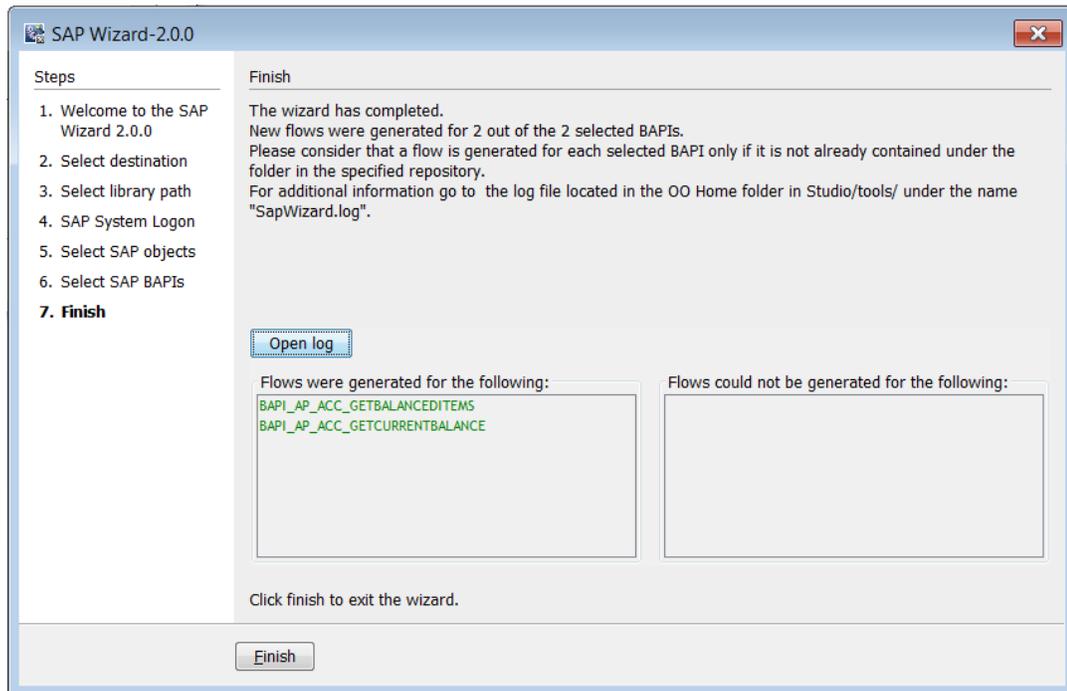


If in the project you selected at Step 3, there were already generated flows for the selected BAPIs, you can choose to overwrite them.

Note: Generating the flows for the specified BAPIs may take a few moments, depending on the number of selected items.



After the flows that can be generated are created and saved in the repository, the SAP Wizard finishes. Some of the flows may fail to be generated, as they already exist in the repository, at the location specified in the library path selection step. For details, see ["Using the SAP Wizard to Create OO Flows for Selected BAPIs" on page 15](#). You can open the log file for more information on the steps performed by the wizard.



Note: Before importing the generated flows in OO Studio, you must:

- Import the oo10-sap-cp.jar file as described in ["HP SAP Content Pack" on page 12](#).
- Import the oo10-thirdparty-cp.jar file as described in ["SAP Connector Installation Instructions" on page 12](#).

If these content packs are not imported, you will see flows underlined in red due to missing dependencies.

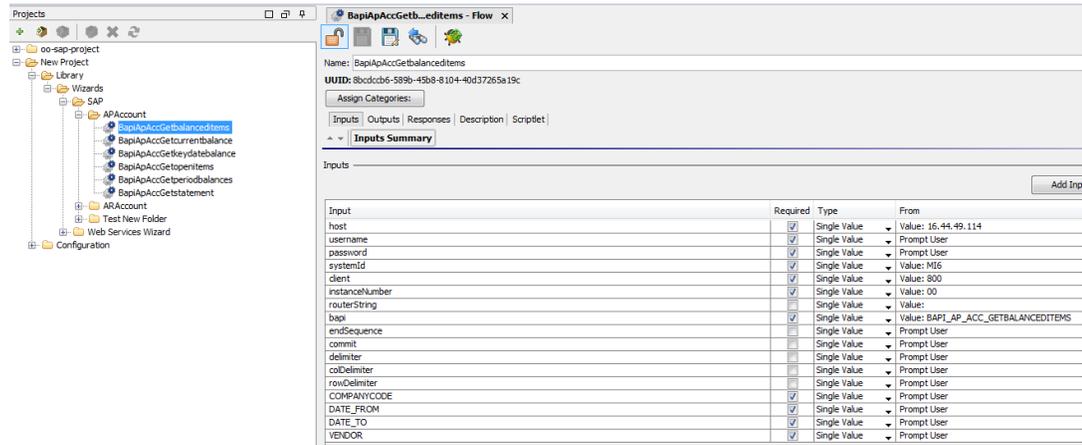
Import the Generated Flows into OO Studio

After this, you can import the project generated by the wizard in OO Studio. See the section "Managing Projects" in the Studio Guide to see how to import a project.

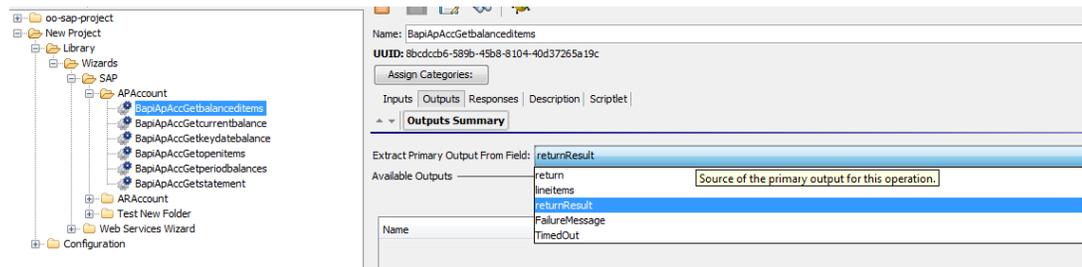
After you have imported the project in studio, you can check the generated flow in the following way:

1. Select one of the generated flows and open the Inputs tab.

All of the common inputs except for username and password are assigned from constant values according to the values of the connection parameters used in the SAP Wizard. The BAPI input is assigned the corresponding value and all the SAP import parameters associated to the BAPI are added as inputs at flow level.

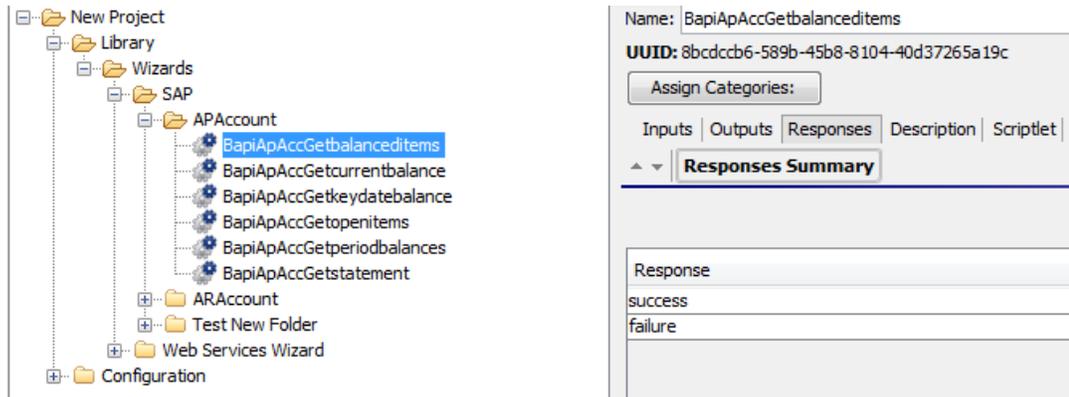


2. Click the Outputs tab to verify that the table and export parameters of the BAPI are present as results in addition to the returnResult result. All OO flows have the FailureMessage and TimedOut outputs. All generated flows have the returnResult output (which is the generic operation's result), and results corresponding to the table and export parameters of the BAPI.



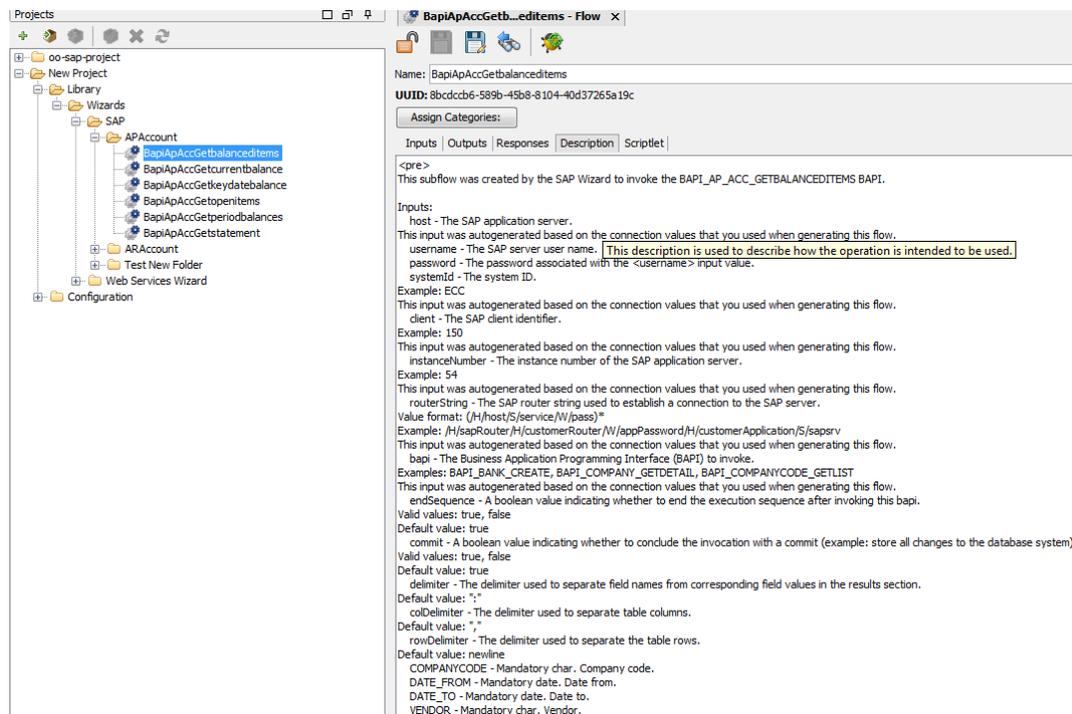
3. Click the Responses tab.

The success and failure responses of the flows are the same as in the Invoke SAP BAPI operations.



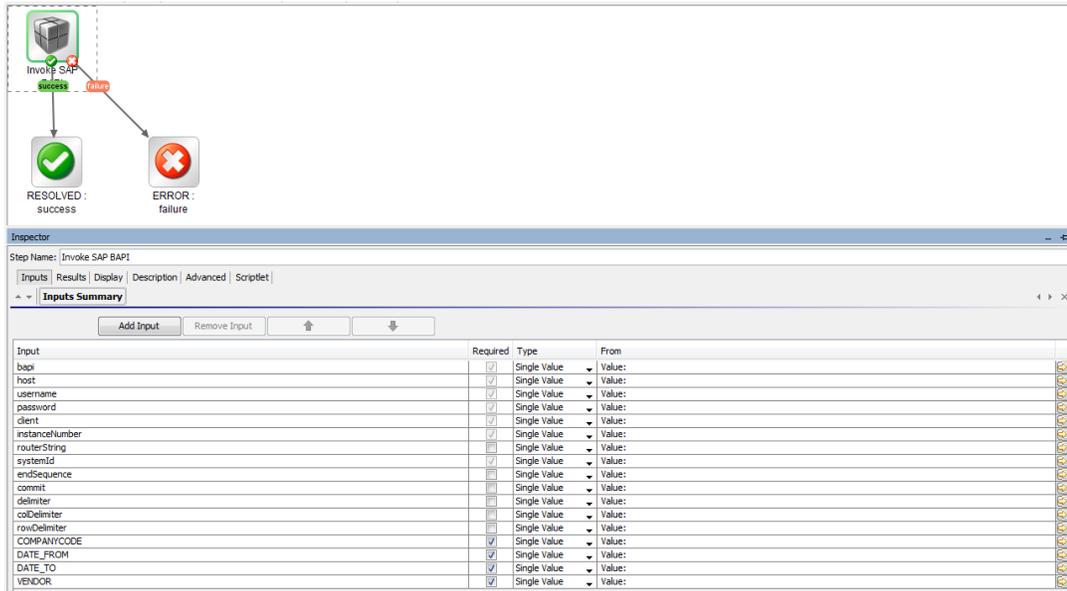
4. Click the Description tab.

The description of the flow has been dynamically generated and includes the BAPI specific parameters in the Inputs and Results sections.

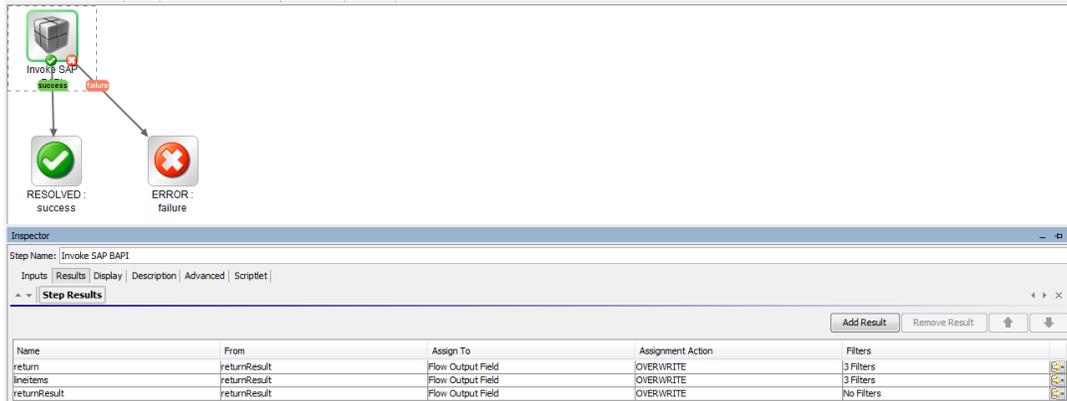


5. Select the flow's step that refers to the Invoke SAP BAPI operation.

The specific inputs have been added for the step as well, so their values can be passed to SAP when the BAPI is called.



The BAPI-specific results have been added as flow output fields, obtained by applying filters to the raw output of the generic operation.



SAP Content Installation

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Installing HP Operations Orchestration SAP Content

To install the SAP Content

1. Download the installation file for your relevant operating system and architecture from the HPLN portal, and launch the installer:

Windows 64-bit	sap-installer-win64.exe
Windows 32-bit	sap-installer-win32.exe

Note: Make sure the installation folder to which you download the installation file does not contain a semi-colon in the folder name.

Make sure that the installation path does not include the plus (+) or semicolon (;) characters. Valid characters for the installation path include English letters, digits, spaces, hyphens (-) and underscores (_).

2. To start the installation wizard, double-click the installer. The installation package is extracted, and the **HP Operations Orchestration SAP Content Installation screen** automatically appears.
3. Click **Next**.
4. In the **License** step, select **I Agree**, and then click **Next**.
5. In the **Location** step, select the location for the installation root directory, and then click **Next**. If the directory does not exist, the directory will be created automatically. You are prompted to confirm the creation of the new location.

Note: The default for Windows is C:\Program Files\Hewlett-Packard\HP Operations Orchestration\studio. If you install SAP Content on a path with special characters (for

example, French, Japanese, or Chinese characters), this results in an error.

6. In the **Options** step, select the HP Operations Orchestration SAP software that you would like to install and configure. The available options are: SAP Content Pack, SAP Wizard and Documentation. Click **Next**.
7. In the **Dependencies** step, select the path to the SAP Connectors: sapjco.jar, sapjco.dll. If you want to correct one of the settings, click **Back**.
8. Click **Next**. The installation begins and the wizard displays a check mark next to each successfully installed item on the Progress page.

Note: If there is a problem with one of the installation or configuration items, the installation attempts to continue with the rest of the items regardless of that error. Check the **sap-installer.log** file located in installation folder to check for errors, warnings or information.

Uninstalling HP Operations Orchestration SAP Content

1. In the HP OO SAP Content installation directory, for example, C:\Program Files\Hewlett-Packard\HP Operations Orchestration\studio, double-click **sap-uninstall.exe**, and then click **Next**.
2. Select the HP Operations Orchestration options that you want to uninstall. The available options are: **SAP Content Pack** and **SAP Wizard**. Then click **Next**. When prompted whether to continue, click **Yes**.
3. Click **Finish**. The HP Operations Orchestration selected options are removed from your computer.

Note: Open the **sap-uninstall.log** file located in the installation folder to check for errors, warnings or information during the uninstall.

Example of Using the Generic Invoke SAP BAPI Operation

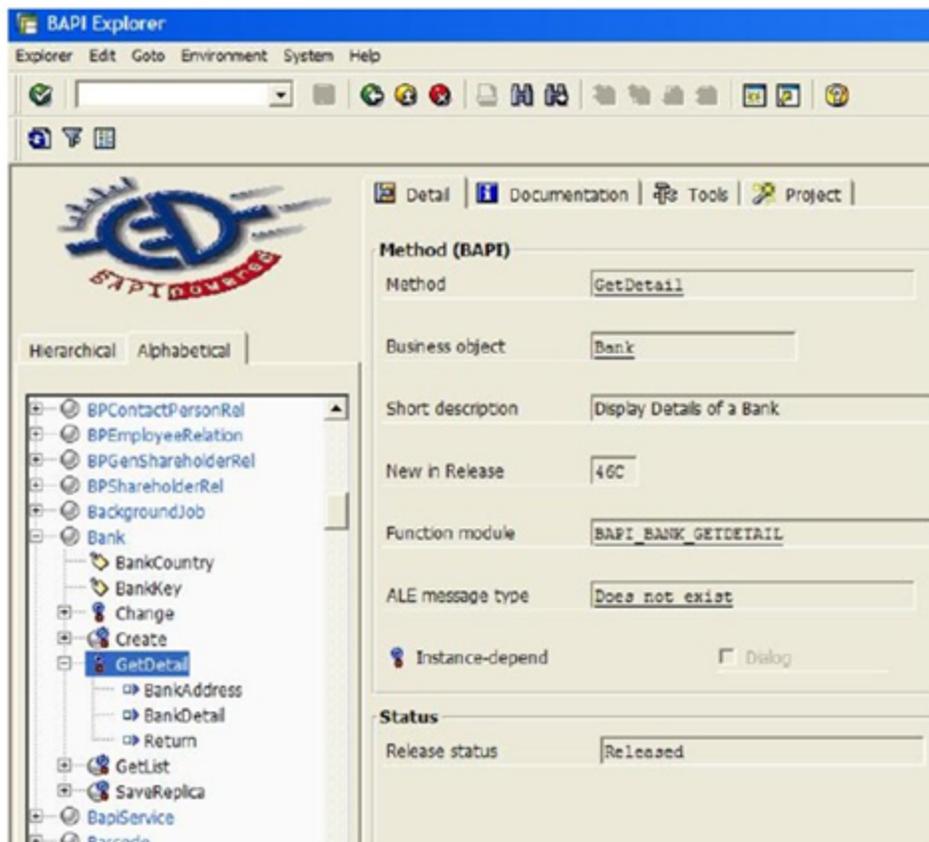
In this example, you use the generic Invoke SAP BAPI operation to display the details of a bank by executing the GetDetail method of the Bank Business object. For this, you must uniquely identify the bank from which to list the details by following these tasks:

Step 1 — Locate the BAPI in the SAP GUI	28
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Step 1 — Locate the BAPI in the SAP GUI

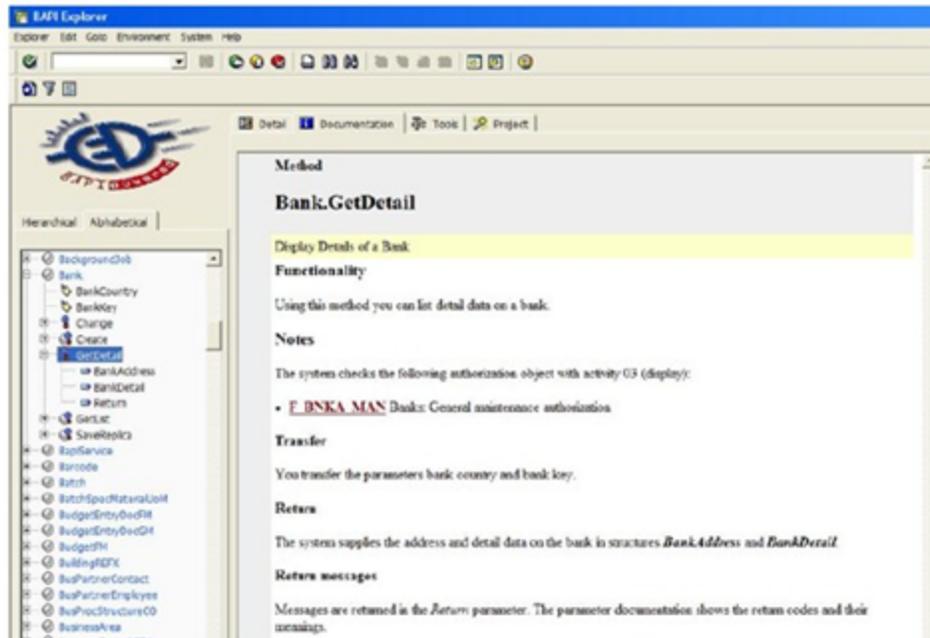
Open BAPI Explorer as described in "[Access the Available BAPIs in the SAP System](#)" on page 9 and locate the Bank object.

1. Expand the Bank tree item and then select the GetDetail method to obtain information about the method you want to call.



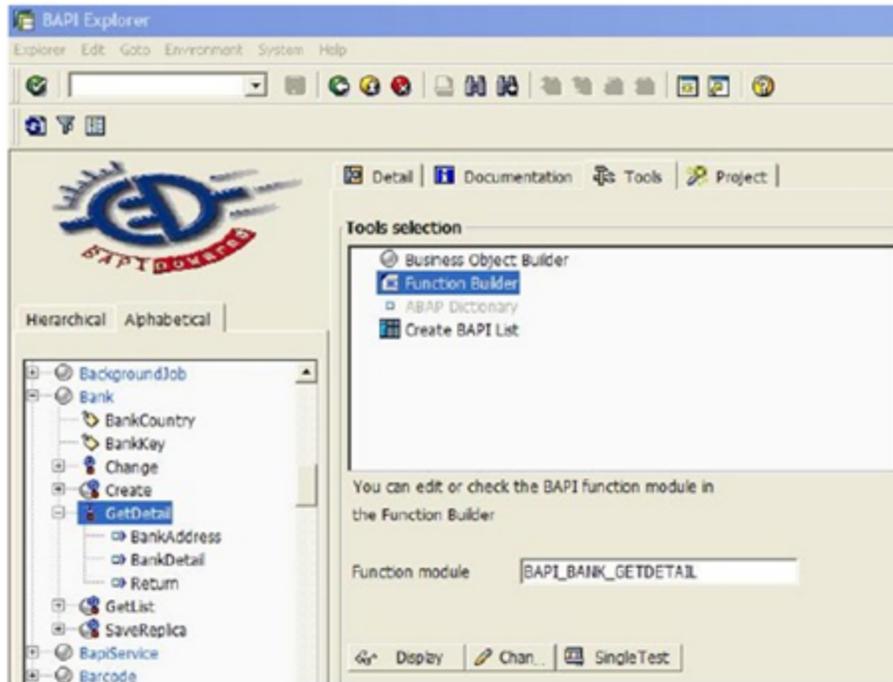
The Function module associated to this method is named BAPI_BANK_GETDETAIL. This is the value that must be passed to the BAPI input of the Invoke SAP BAPI operation in this example. Note that the general naming convention for Function modules is BAPI_ObjectName_MethodName, where ObjectName and MethodName must be in uppercase.

2. Click the Documentation tab to read a description of the method.



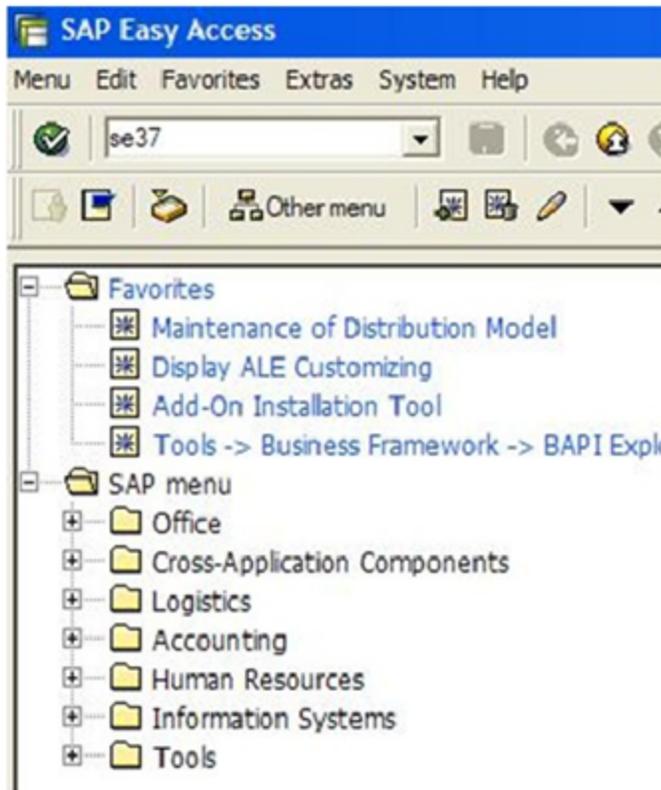
3. To identify the specific import, export, and table parameters of the BAPI:
 - a. Click the Tools tab.
 - b. Select Function Builder and then click the Display button.

- c. Choose the appropriate tab for a list of specific parameters.

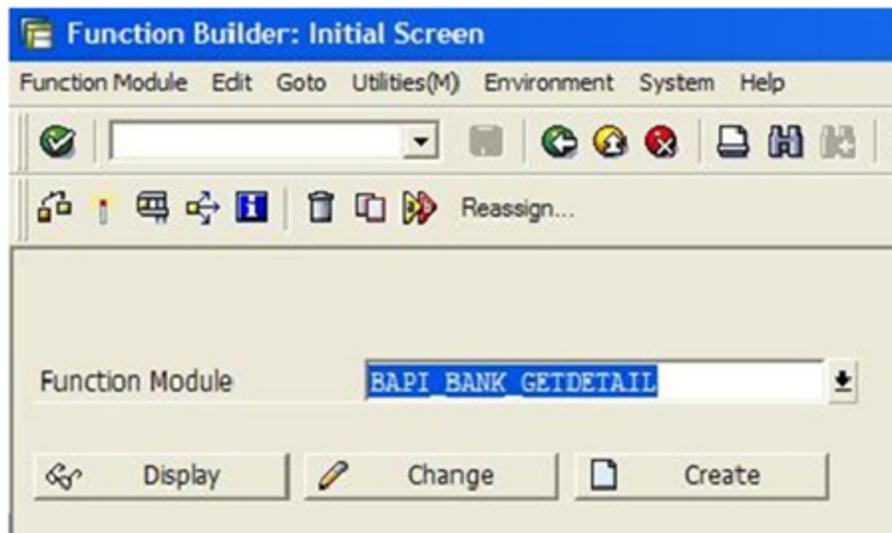


Or

- a. Open the Function Builder by entering the se37 transaction code (as shown below).

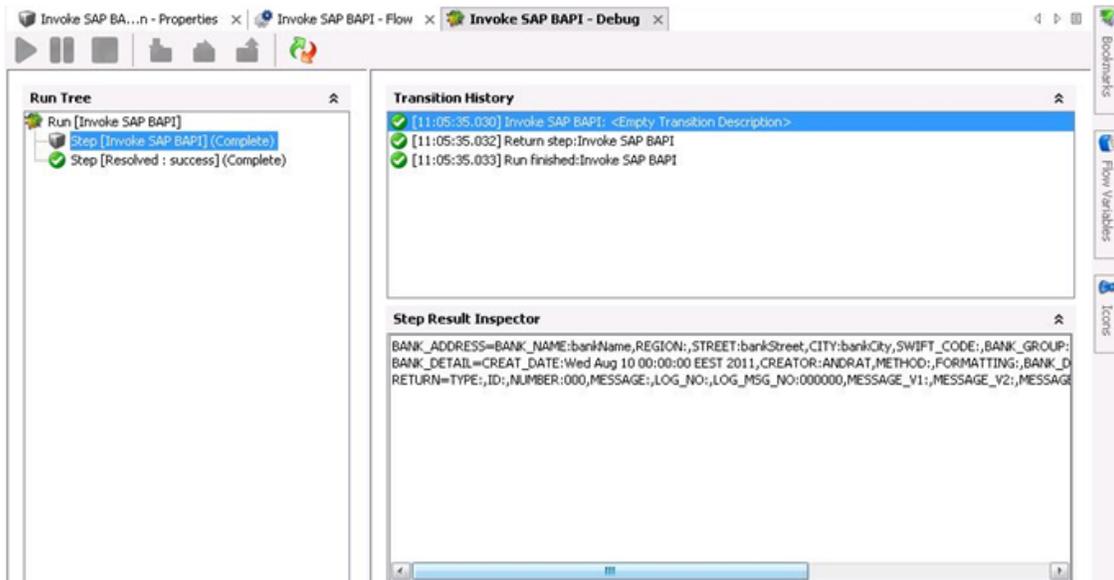


- b. Type the name of the Function Module and then click the Display button.



Step 3 — Add the BAPI Specific Results

The **Invoke SAP BAPI** operation returns the table and export parameters specific to the called BAPI in the returnResult result. When you use the **Invoke SAP BAPI** operation, you can customize this output by applying filters to extract results for each of the desired SAP parameters. For example, when invoking BAPI_BANK_GETDETAIL, the returnResult would appear in the OO Studio Debug screen as shown below.



You can check for the table and export parameters related to the **BAPI_BANK_GETDETAIL** in SAP and see that the BAPI has an export parameter named **BANK_ADDRESS**.

Function Builder: Display BAPI_BANK_GETDETAIL

Function Module: BAPI_BANK_GETDETAIL Active

Attributes | Import | Export | Changing | Tables | Exceptions | Source code

Parameter Name	Typing	Associated Type	Pass Value	Short text	Long Text
BANK_ADDRESS	LIKE	BAPI1011_ADDRESS	<input checked="" type="checkbox"/>	Bank Address Data	<input checked="" type="checkbox"/>
BANK_DETAIL	LIKE	BAPI1011_DETAIL	<input checked="" type="checkbox"/>	Bank Detail Data	<input checked="" type="checkbox"/>
RETURN	LIKE	BAPIRET2	<input checked="" type="checkbox"/>	Confirmations	<input checked="" type="checkbox"/>
			<input type="checkbox"/>		
			<input type="checkbox"/>		
			<input type="checkbox"/>		
			<input type="checkbox"/>		
			<input type="checkbox"/>		
			<input type="checkbox"/>		

This is a structure parameter and its fields are enumerated if we open its **Associated Type**.

Component	RTy...	Component type	Data Type	Length	Decim..	Short Description
<u>BANK_NAME</u>	<input type="checkbox"/>	<u>BANKA</u>	CHAR	60	0	Name of bank
<u>REGION</u>	<input type="checkbox"/>	<u>REGIO</u>	CHAR	3	0	Region (State, Province, County)
<u>STREET</u>	<input type="checkbox"/>	<u>STRAS_GP</u>	CHAR	35	0	House number and street
<u>CITY</u>	<input type="checkbox"/>	<u>ORT01_GP</u>	CHAR	35	0	City
<u>SWIFT_CODE</u>	<input type="checkbox"/>	<u>SWIFI</u>	CHAR	11	0	SWIFT Code for International Payments
<u>BANK_GROUP</u>	<input type="checkbox"/>	<u>BGRUP</u>	CHAR	2	0	Bank group (bank network)
<u>POBK_CURAC</u>	<input type="checkbox"/>	<u>XPGRO</u>	CHAR	1	0	Post Office Bank Current Account
<u>BANK_NO</u>	<input type="checkbox"/>	<u>BANKL</u>	CHAR	15	0	Bank number
<u>POST_BANK</u>	<input type="checkbox"/>	<u>PSKTO_CH</u>	CHAR	16	0	Post office bank current account number
<u>BANK_BRANCH</u>	<input type="checkbox"/>	<u>BRNCH</u>	CHAR	40	0	Bank Branch
<u>ADDR_NO</u>	<input type="checkbox"/>	<u>AD_ADDRNUM</u>	CHAR	10	0	Address number

To add the BAPI specific results:

1. To obtain the **BANK_NAME** field of the BANK_ADDRESS parameter, filter the **Invoke SAP BAPI** operation's primary output. Create a step result named **bankName** which gets its value from the operation's **returnResult**.

Inspector

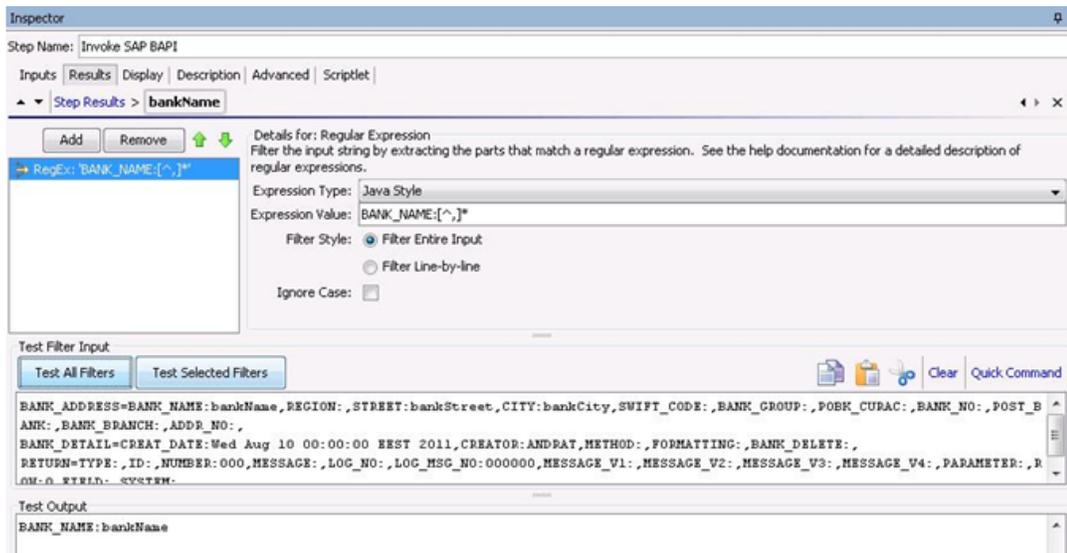
Step Name: Invoke SAP BAPI

Inputs Results Display Description Advanced Scriptlet

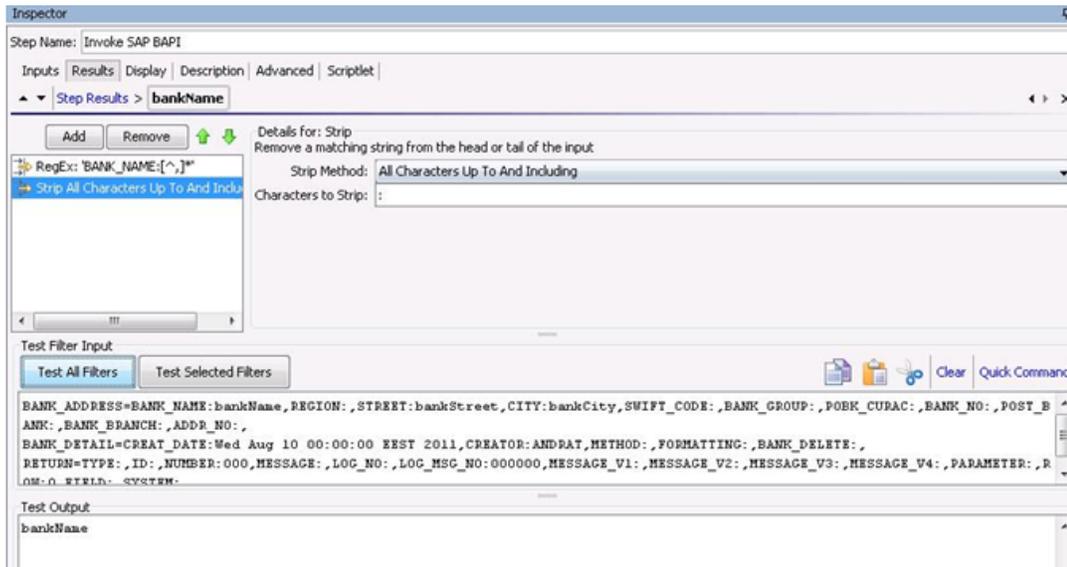
Step Results > bankName

Name	From	Assign To	Assignment Action	Filters
bankName	Result Field: returnResult	Flow Variable	OVERWRITE	No Filters

2. Use a regular expression to extract the BANK_NAME from the **returnResult**.

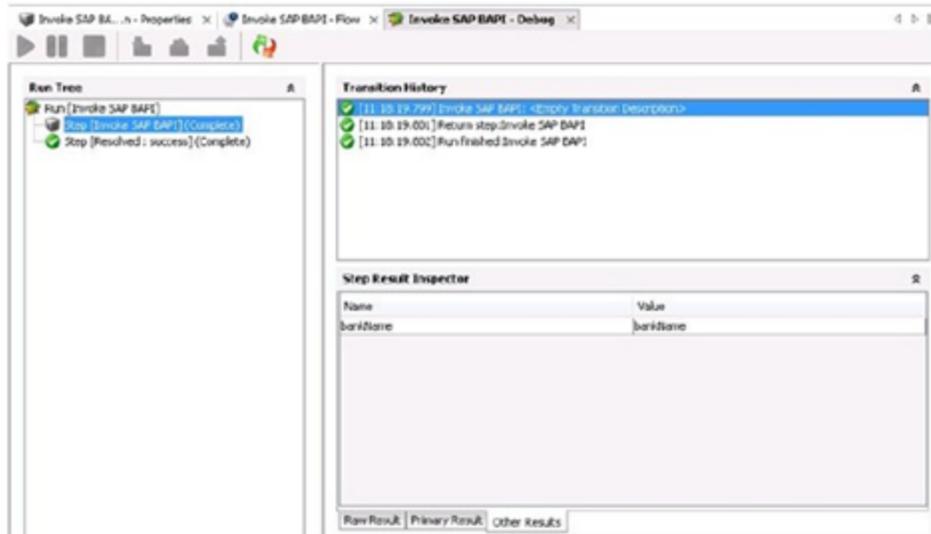
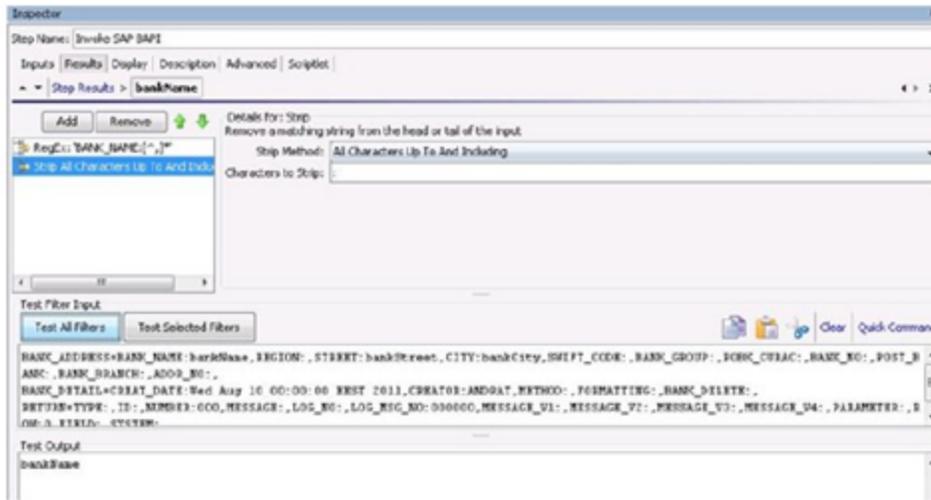


3. If you want to eliminate the name of the SAP field, you can use a **Strip** filter to remove BANK_NAME from the result.



When you execute this step again, **bankName** is obtained as a separate result.

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 Example of Using the Generic Invoke SAP BAPI Operation



Troubleshooting

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Overview

This section provides troubleshooting procedures and tools that you can use to solve problems you may encounter while using this integration. It also includes a list of the error messages you may receive while using the integration and offers suggestions and possible fixes for the errors.

General Troubleshooting Procedures and Tools

This section describes the troubleshooting procedures and tools you can use to fix problems that you may experience while using this integration.

To use the generic Invoke SAP BAPI operation, the sample flows and the flows created by the SAP Wizards, you must download the SAP Java Connector (JCo) from the SAP Service Marketplace at <http://service.sap.com/connectors> and install the connector, as stated in the generic operation's description.

Note: You cannot successfully use the SAP Integration if you do not have the correct version of SAP JCo.

Error Messages

This section lists the error codes and messages you may receive while using this integration. Each error message includes possible causes and fixes for the error.

java.lang.NoClassDefFoundError: com/sap/conn/jco/JCoException

This error occurs when you do not have SAP JCo installed, as documented in the Invoke SAP BAPI operation's description.

java.util.concurrent.ExecutionException:

java.lang.ExceptionInInitializerError:

Error getting the version of the native layer: java.lang.

UnsatisfiedLinkError: no sapjco3 in java.library.path

This error occurs when the version of the SAP JCo you have installed is not correct. This can also happen on Windows SP2 and Windows Server 2003 R2 Enterprise SP2 when installing Java connector 3.0.4.

If this is the case, install the Microsoft Visual C 2005 Service Pack 1 Redistributable Package (KB973544), that can be downloaded at <http://www.microsoft.com/en-us/download/details.aspx?id=14431>.