



BAPI SDK

Project name: How to use BAPI

Package version: 1.0.1

Version of document	Date	Description
0		Document created

TABLE OF CONTENTS

INTRODUCTION	4
IMPORTANT RECOMMANDATION	5
General	5
Reuse the sample as a new project	5
DESCRIPTION	7
Settings	7
<i>Environment variables</i>	7
Datatypes	7
<i>import_PR</i>	7
<i>Table_PR</i>	7
Automations.....	7
<i>Execute BAPI Function</i>	7
VERSION	9
SAP Build Process Automation	9
Target application	9
PREREQUISITES.....	10
Global setup	10
Specific steps to follow before launching the agent	10
EXPECTED OUTPUT.....	11

INTRODUCTION

This document describes the SAP Build Process Automation sample **How to use BAPI** and provides the following information:

- Description (functional and technical)
- Version used to generate this sample

It also contains information on prerequisites, such as the steps to follow before launching the agent.

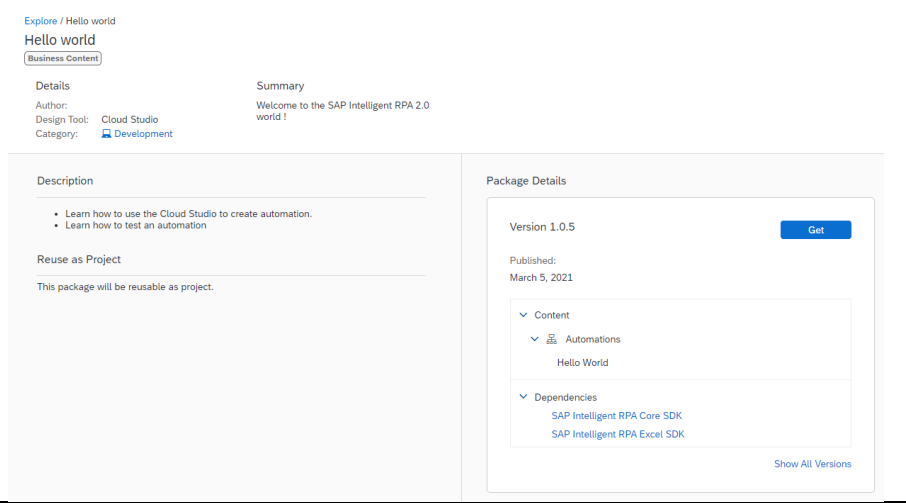
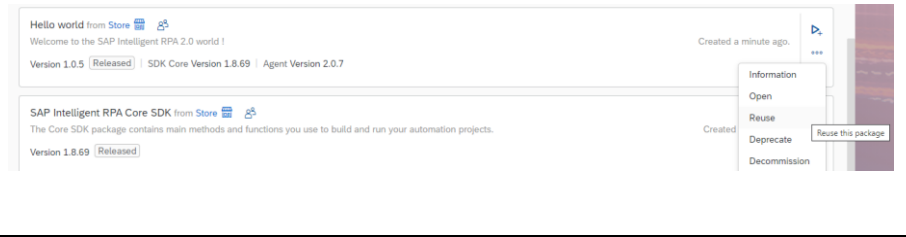
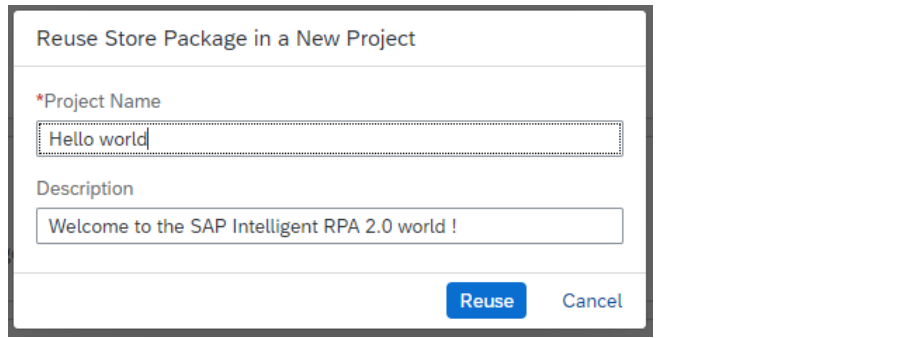
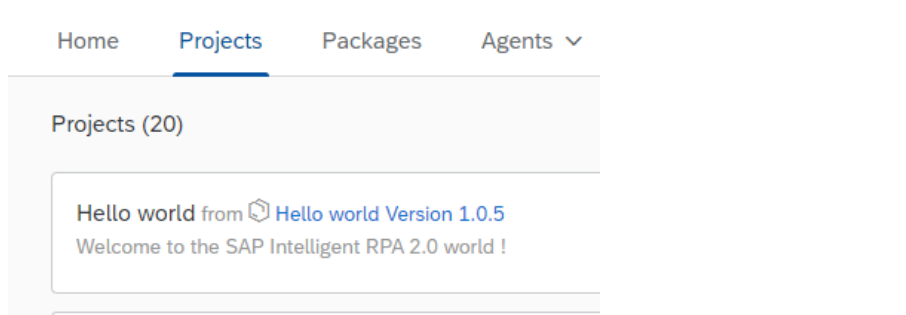
IMPORTANT RECOMMENDATION

General

To use this sample, you need to have a basic knowledge and understanding of SAP Build Process Automation tool. At the very least you need to know how to build an automation, add and modify activities and generate a package.

Reuse the sample as a new project

Note: screenshot might display a different name than the one of this sample.

<p>From the Cloud Factory, open the Store tab and select the sample you want to retrieve.</p> <p>Click on the Get button.</p>	 <p>Explore / Hello world Hello world (Business Content)</p> <p>Details Author: Cloud Studio Design Tool: Cloud Studio Category: Development</p> <p>Summary Welcome to the SAP Intelligent RPA 2.0 world !</p> <p>Description</p> <ul style="list-style-type: none"> Learn how to use the Cloud Studio to create automation. Learn how to test an automation <p>Reuse as Project This package will be reusable as project.</p> <p>Package Details</p> <p>Version 1.0.5 Get</p> <p>Published: March 5, 2021</p> <p>Content</p> <ul style="list-style-type: none"> Automations <ul style="list-style-type: none"> Hello World <p>Dependencies</p> <ul style="list-style-type: none"> SAP Intelligent RPA Core SDK SAP Intelligent RPA Excel SDK <p>Show All Versions</p>
<p>Once the package is retrieved, open the Packages tab of the Cloud Factory.</p> <p>Click on the Options button of the package you just retrieved and select the option Reuse.</p>	 <p>Hello world from Store Welcome to the SAP Intelligent RPA 2.0 world ! Version 1.0.5 (Released) SDK Core Version 1.8.69 Agent Version 2.0.7 Created a minute ago.</p> <p>SAP Intelligent RPA Core SDK from Store The Core SDK package contains main methods and functions you use to build and run your automation projects. Version 1.8.69 (Released) Created</p> <p>Information Open Reuse Deprecate Decommission</p> <p>Reuse this package</p>
<p>Set a name for the project to be created.</p>	 <p>Reuse Store Package in a New Project</p> <p>*Project Name Hello world</p> <p>Description Welcome to the SAP Intelligent RPA 2.0 world !</p> <p>Reuse Cancel</p>
<p>Open the project that has just been created.</p>	 <p>Home Projects Packages Agents</p> <p>Projects (20)</p> <p>Hello world from Hello world Version 1.0.5 Welcome to the SAP Intelligent RPA 2.0 world !</p>
<p>If needed, update the content of this project, and generate a new package from it.</p>	

You need to execute this procedure to be able to open the project and see all its content (the captured applications, the declared items, the automations, etc.).

DESCRIPTION

This package contains captures, datatype and automations that are described below. See chapter [Version](#) for more details about the version of the Desktop Agent and the SDK dependencies.

Settings

This section describes the settings of the project such as environment variables or dependent packages that are used in the automation.

Environment variables

Name	Description	Type
MessageServer	MessageServer of the system	String
InstanceNumber	Instance Number of the system	String
Client	Client number of the system	String
Language	Language to use in the system	String
SNCName	SNCName string of the system	String

Datatypes

This section describes the datatype used in this sample. It describes the structure of the datatype and where it is used in the automations.

import_PR

Name of attribute	Type	Description
PRHEADER PR_TYPE	Object String	
PRHEADERX PR_TYPE	Object String	

Table_PR

Name of attribute	Type	Description
PRITEMX PREQ_ITEM MATERIAL PLANT QUANTITY	Object (list) String String String String	
PRITEMX PREQ_ITEM MATERIAL PLANT QUANTITY	Object (list) String String String Number	

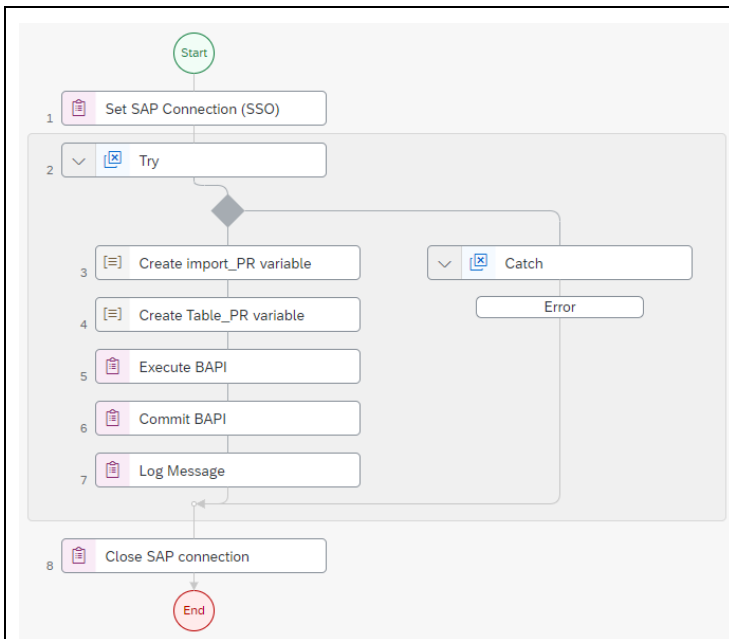
Automations

Execute BAPI Function

Type: Attended / Unattended

Input: none

Output: none



This automation

- Create the connection to SAP system
- Create the data type to send to the BAPI function
- Call the BAPI function
- Commit
- Log the response
- Close the SAP Connection

The try catch make sure that the SAP connection is closed event if there is an error.

In this example we call the BAPI function BAPI_PR_CREATE

Import_PR and Table_PR have been created from the BAPI_PR_CREATE parameter decription.

If you want to call another BAPI function you have to create your own datatype. Be careful, the structure and the name of the parameters must be exactly the same.

VERSION

The product versions used to generate this sample are detailed below. This sample is provided “as is”, with no warranty that it will work correctly with other versions. If some versions of your software are different (such as the tool version or the target application version), you may need to recapture the application and/or update the workflow activities.

SAP Build Process Automation

This sample targets the Desktop Agent **2.0.16** or higher.

The following SDK dependencies were used to generate this sample:

irpa_core	1.15.74
irpa_excel	1.15.74
irpa_bapi	1.15.74

See [documentation](#) for more details about the compatibility between SDK version and Desktop Agent.

Target application

Application	Version
SAP system	

PREREQUISITES

Global setup

SAP Build Process Automation must be installed in accordance with the installation guide available [here](#). An SAP Build Process Automation Factory must be available with a suitable environment (containing an agent). All information can be found in the “Getting Started” section accessible via the above link.

Specific steps to follow before launching the agent

[Describe all the steps to be able to use the sample in another environment. E.g.: create credentials variable in Factory, Excel file at given location, etc.]

EXPECTED OUTPUT

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