



Business Activity Monitoring

Package version: 1.0.0

Version	Date	Description
1	August 4, 2021	Document created

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INTRODUCTION

This document describes the SAP Build Process Automation sample **How to use BAM activities** 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.

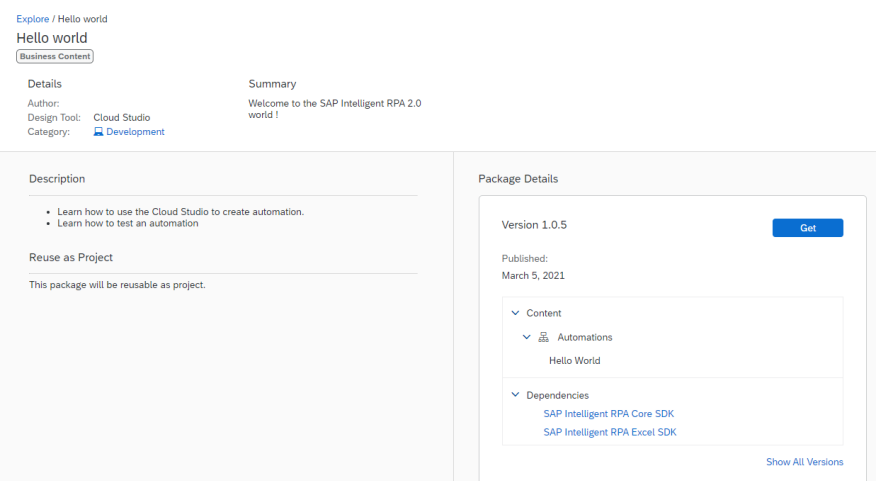
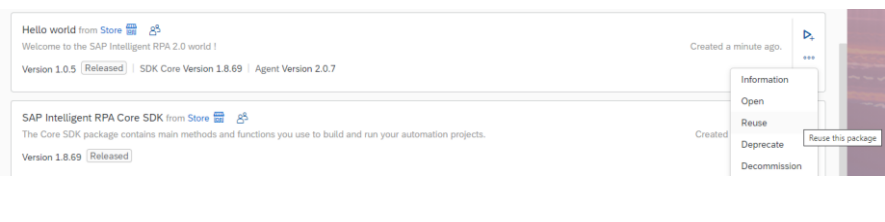
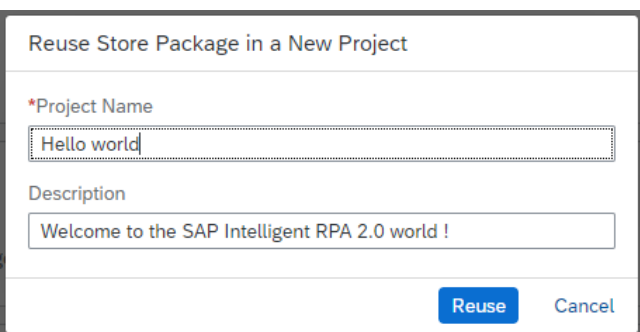
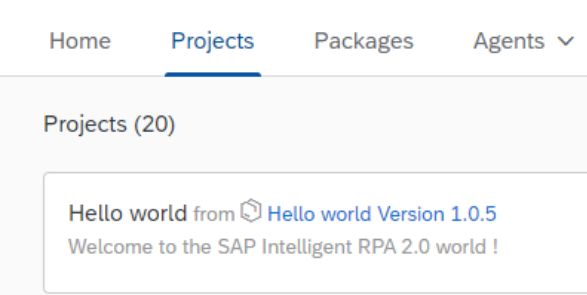
IMPORTANT RECOMMENDATION

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 <ul style="list-style-type: none"> Learn how to use the Cloud Studio to create automation. Learn how to test an automation </p> <p>Reuse as Project This package will be reusable as project.</p> <p>Package Details Version 1.0.5 Get</p> <p>Published: March 5, 2021</p> <p>Content Automations Hello World</p> <p>Dependencies SAP Intelligent RPA Core SDK SAP Intelligent RPA Excel SDK</p> <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 automations.

Environment variables

N/A

Dependent packages

N/A

Captures

This section describes the captures which were made to pilot the application in this sample. It will also describe the different methods which were used to capture the pages and declare the items.

Datatypes

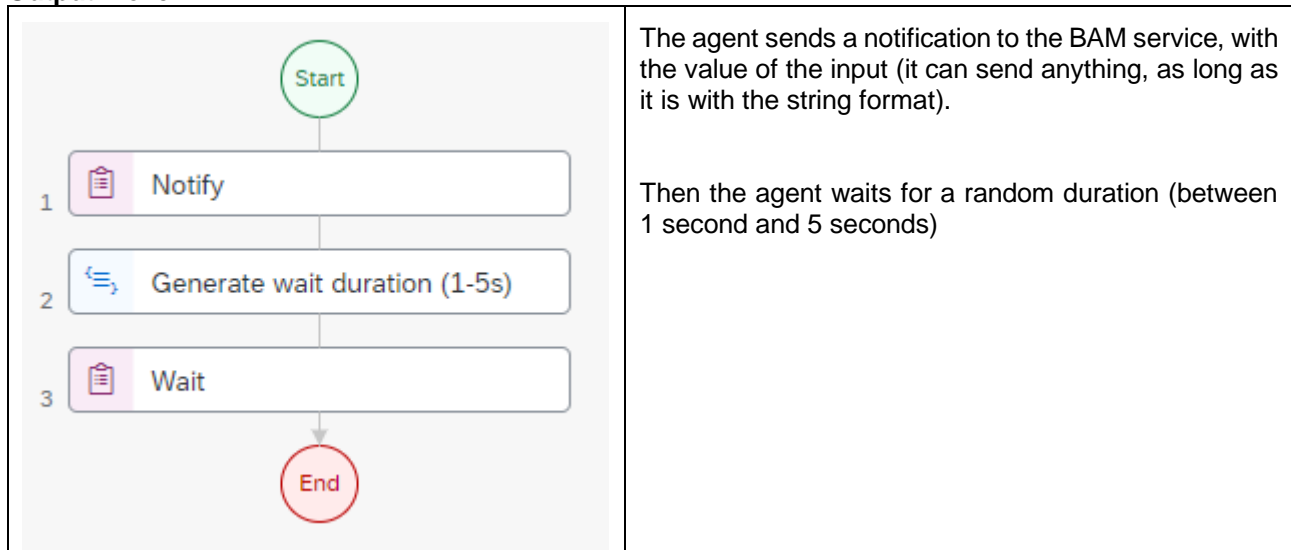
This section describes the datatype used in this sample. It describes the structure of the datatype and where it is used in the automations.

Automations

Child automation

Input: Number (index of the iterations)

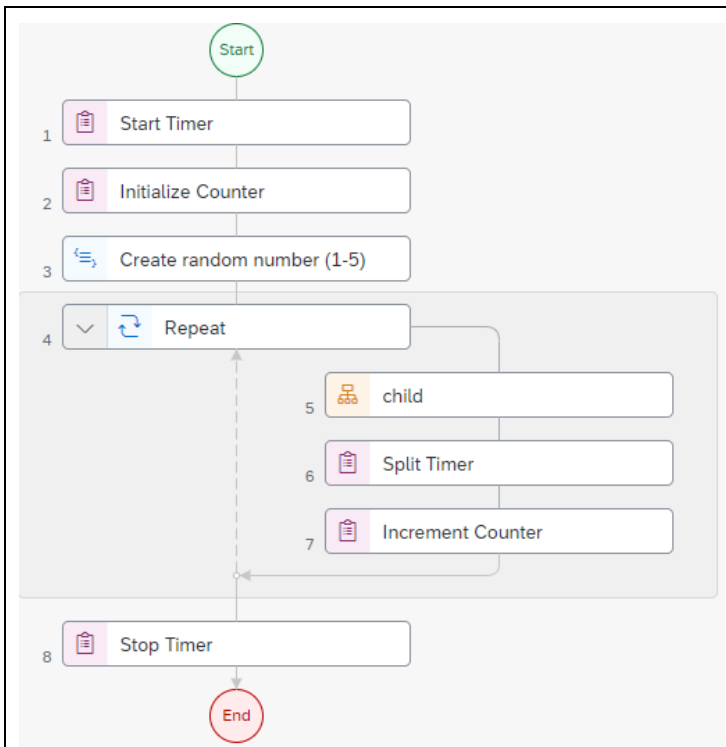
Output: none



Main automation

Input: none

Output: none



In this example, we will measure the duration of the execution of the whole automation.

First, we create a timer with a specific id. The loop is used with a random value, so we also need to setup a counter if we want to know more details about the execution (number of iterations in the loop, for instance).

For each iteration of the loop, we “split” the timer, that is to say we save its value at this very exact moment, but the timer still goes on.

The counter is also incremented so we can determine how many iterations occurred during the execution.

At the end of the automation, the timer is stopped.

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 **2.0.13** or higher.

The following SDK dependencies were used to generate this sample:

irpa_core	1.14.54
irpa_excel	1.14.54
irpa_outlook	N/A
irpa_pdf	N/A
irpa_ui5	N/A
irpa_word	N/A

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

Target application

N/A

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

N/A

EXPECTED OUTPUT

Once the execution has ended, it is possible to retrieve data from the BAM in the Cloud Factory. Download the CSV file. After some transformation using Excel, you should have data like below:

job uid	job name	timestamp	name	data	severity	number	duration (ms)	step
30c1d7f0-3fd6-a1ca-2c0d-b646ad43e97d		2021-08-04T08:37:37Z	myTimer	End of step for myTimer		0	8874	Main - End Automation
30c1d7f0-3fd6-a1ca-2c0d-b646ad43e97d		2021-08-04T08:37:37Z	myCounter			3	0	
30c1d7f0-3fd6-a1ca-2c0d-b646ad43e97d		2021-08-04T08:37:37Z	myTimer	Main - Loop 2 description		0	8868	Main - Loop 2
30c1d7f0-3fd6-a1ca-2c0d-b646ad43e97d		2021-08-04T08:37:33Z		Child - Iteration 2	information	0	0	
cd881f4f-ae83-f7cb-82e5-a0a915b30d35		2021-08-04T08:37:33Z	myCounter			2	0	
cd881f4f-ae83-f7cb-82e5-a0a915b30d35		2021-08-04T08:37:33Z	myTimer	Main - Loop 1 description		0	4853	Main - Loop 1
cd881f4f-ae83-f7cb-82e5-a0a915b30d35		2021-08-04T08:37:32Z		Child - Iteration 1	information	0	0	
d4171709-ab9b-e01f-c273-017b962ff7ff		2021-08-04T08:37:32Z	myCounter			1	0	
d4171709-ab9b-e01f-c273-017b962ff7ff		2021-08-04T08:37:32Z	myTimer	Main - Loop 0 description		0	3833	Main - Loop 0
d4171709-ab9b-e01f-c273-017b962ff7ff		2021-08-04T08:37:28Z		Child - Iteration 0	information	0	0	
b36736ba-415d-c8a7-1738-9fcae5212966	Main automation	2021-08-04T08:37:28Z	myCounter			0	0	

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