



Multiple instances

Project name: Multiple instances

Package version: 1.0.24

Version	Date	Description
1	February 04, 2022	Document created
1.1	January 25, 2023	Update criteria of application

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INTRODUCTION

This document describes the SAP Build Process Automation sample **Multiple instances** 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.

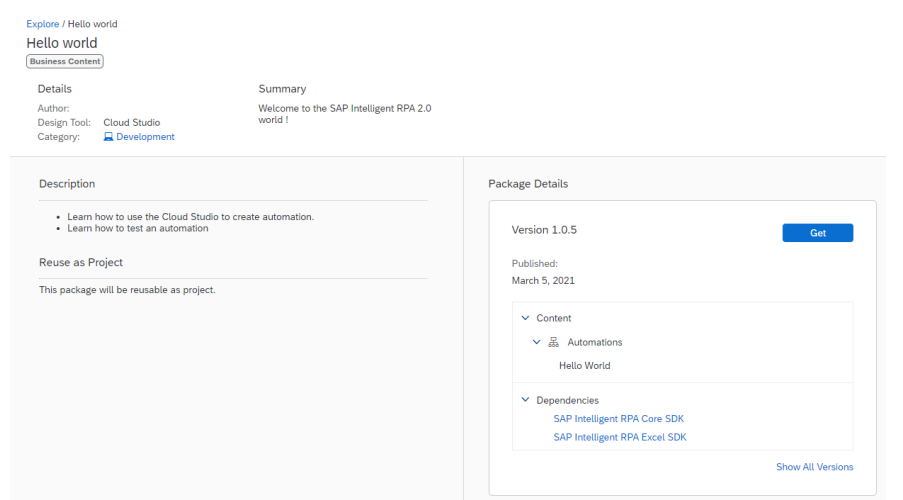
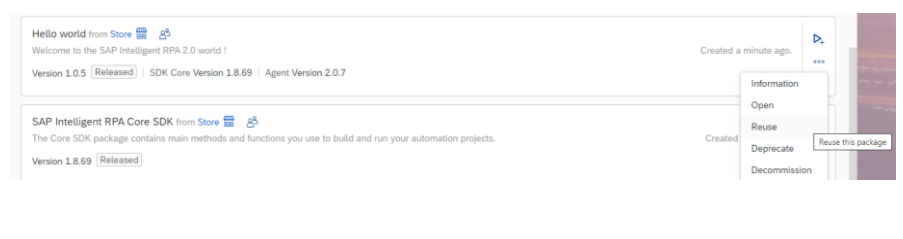
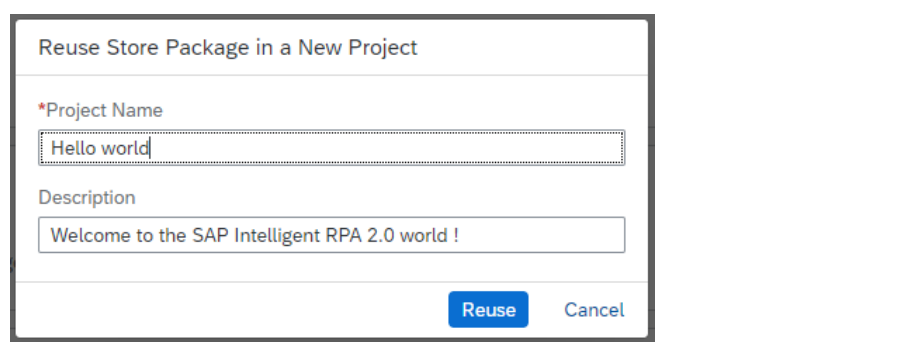
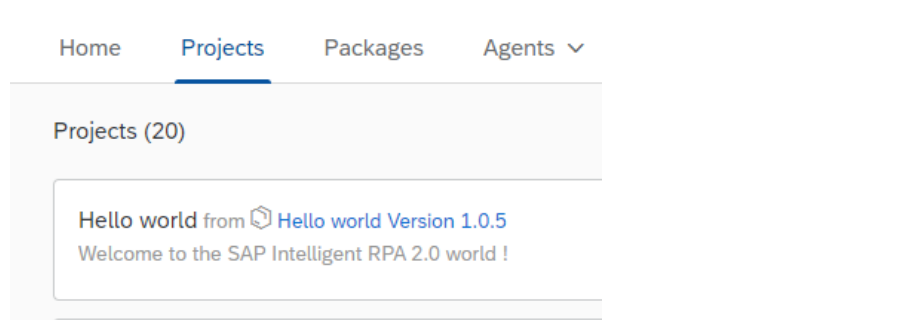
IMPORTANT RECOMMENDATION

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 <ul style="list-style-type: none"> Automations Hello World </p> <p>Dependencies <ul style="list-style-type: none"> 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 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
SheetName	Default name of the worksheet created in Excel file	String
NumberOfRowsToCopy	Number of rows to copy when the large file is split into smaller ones	Number

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.

Duckduckgo

Screen	Description
Main	Only the search field is declared in this screen.

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.

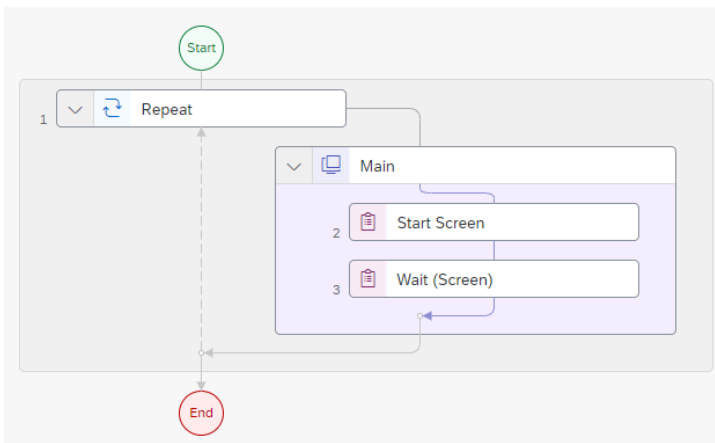
N/A

Automations

Init

Input: Count (Number)

Output: None



The agent will open as many tabs in Chrome as it is specified using the input parameter.

This can be done using the **bEventIfExist** parameter.

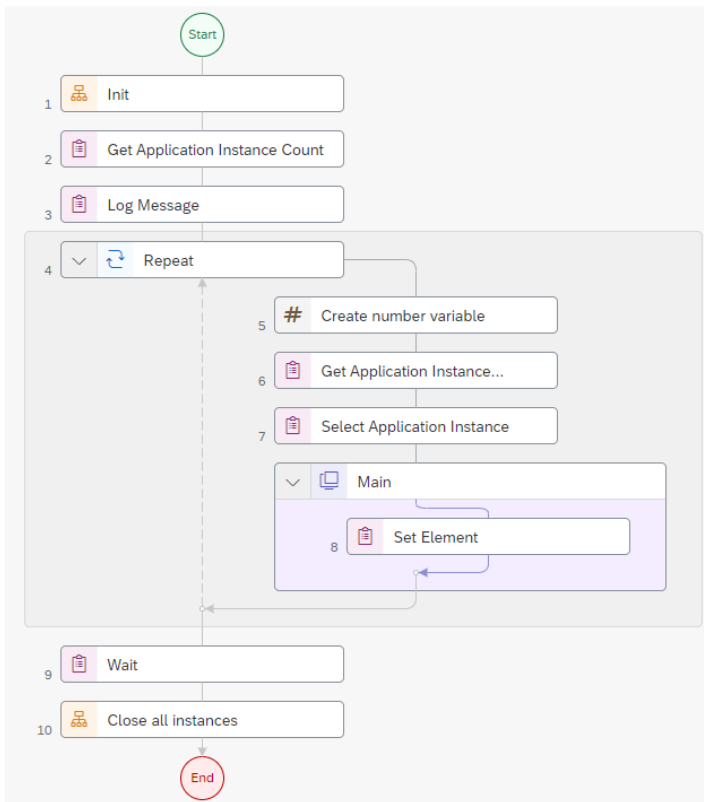
To make sure the application is fully loaded before to continue, the **Wait (Screen)** activity is used.

This automation is just used as the initialization part of the sample.

Manage multiple applications

Input: nbOfInstances (Number)

Output: None



For each instance of the application (that's to say for each opened tab of the application in the browser), the agent will retrieve the information about the *Instance Number* (aka the *id*).

Then the agent selects the application instance in order to pilot it (in our case, we write some text in the search field of the application).

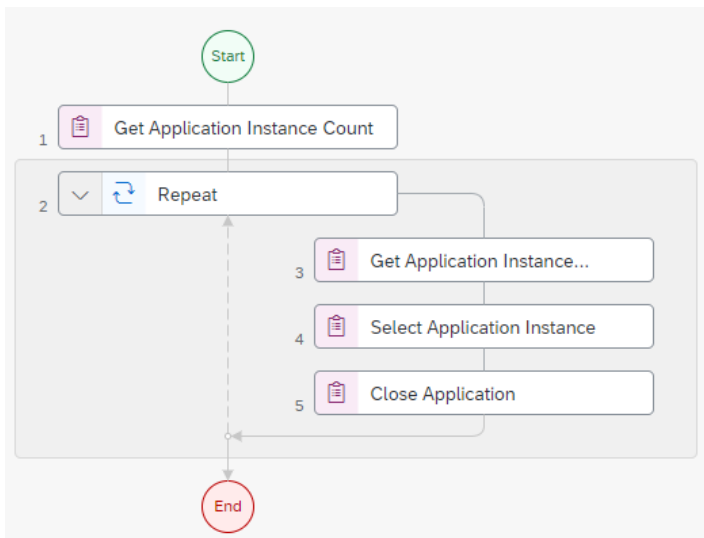
The use of the instance number is mandatory to be able to select an application instance.

Note: if one instance of the application is already started when the automation is launched, and if you do not want the agent to interact with it, you need to exclude the first element of the array.

Close all instances

Input: None

Output: None



The agent will close all the opened tabs of the application in the web browser.

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: 1.33.40

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

Target application

Application	Version
duckduckgo.com	N/A Date of last test: January 24, 2023

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

N/A

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