



How to automatically translate a document

Project name: Document Translation

Package version: 1.0.0

Version of document	Date	Description
0	June 18 th , 2021	Document created

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INTRODUCTION

This document describes the SAP Build Process Automation sample **Document Translation** 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.

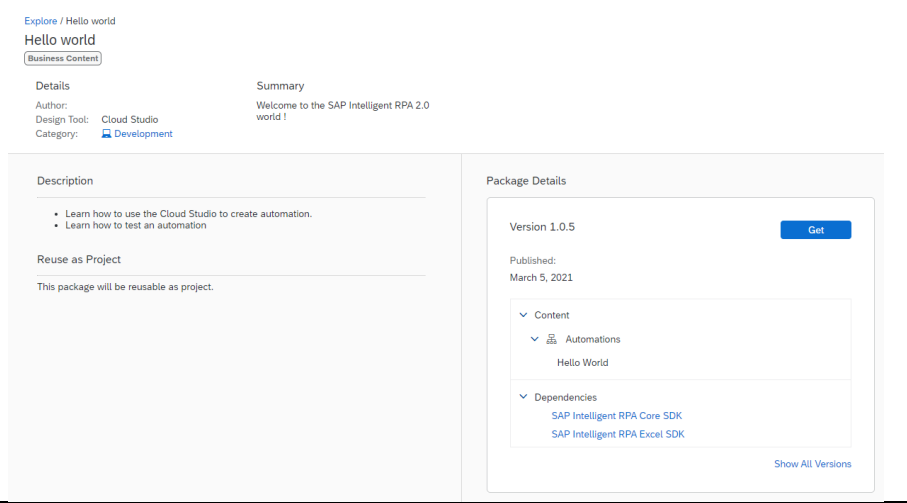
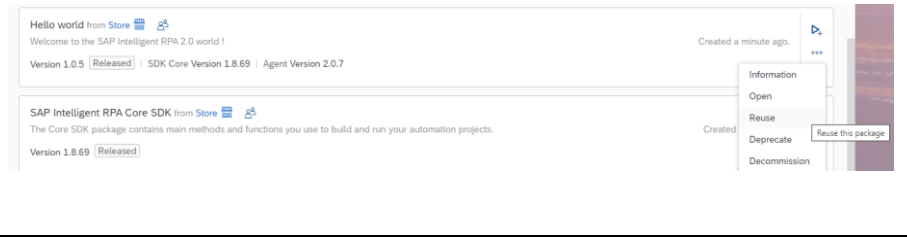
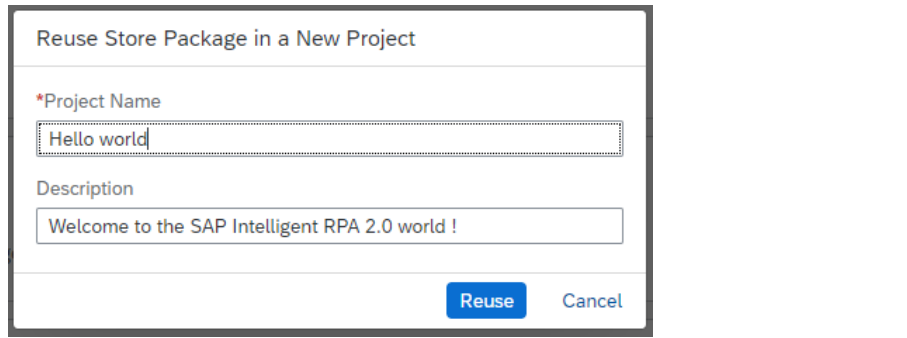
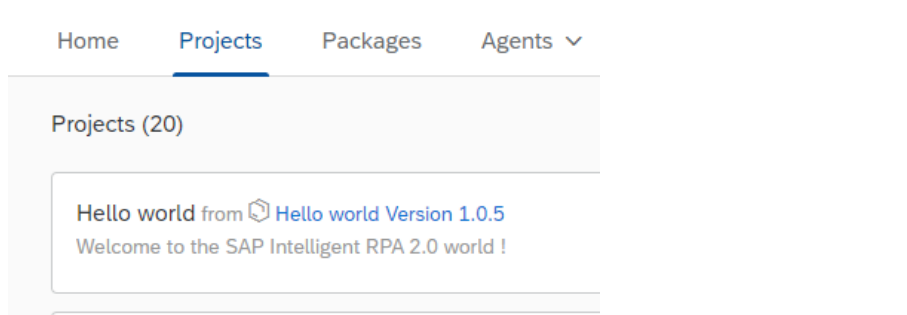
IMPORTANT RECOMMENDATION

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 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 automation.

Environment variables

Name	Description	Type
filePath	The path to the document to send to the Document Translation service.	String
outputPath	The path to which you want to store the translation output.	String
uaaClientId	The uaa.clientId field from the service key.	String
uaaClientSecret	The uaa.clientSecret field from the service key.	Password
uaaUrl	The uaa.url field from the service key.	String
serviceUrl	The url field from the service key.	String
targetLanguage	The language into which you want to translate your document. See Service documentation for more information.	String
sourceLanguage	The language in which your input document is written. See Service documentation for more information.	String

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.

N/A

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.

jobResult

Name of attribute	Type	Description
id	String	Required. This is the id of the job created by the translation service upon upload of the document to translate. See Service documentation for more details. Note: this is the content of the id field (see documentation).
progress	String	Required. This is the progress of the job created by the translation service upon upload of the document to translate. See Service documentation for more details.

Name of attribute	Type	Description
		Note: this is the content of the progress field (see documentation).
status	String	Required. This is the status of the job created by the translation service upon upload of the document to translate. See Service documentation for more details. Note: this is the content of the id field (see documentation).

Alerts

This section describes the alerts used in this sample. It describes the structure of the alert.

N/A

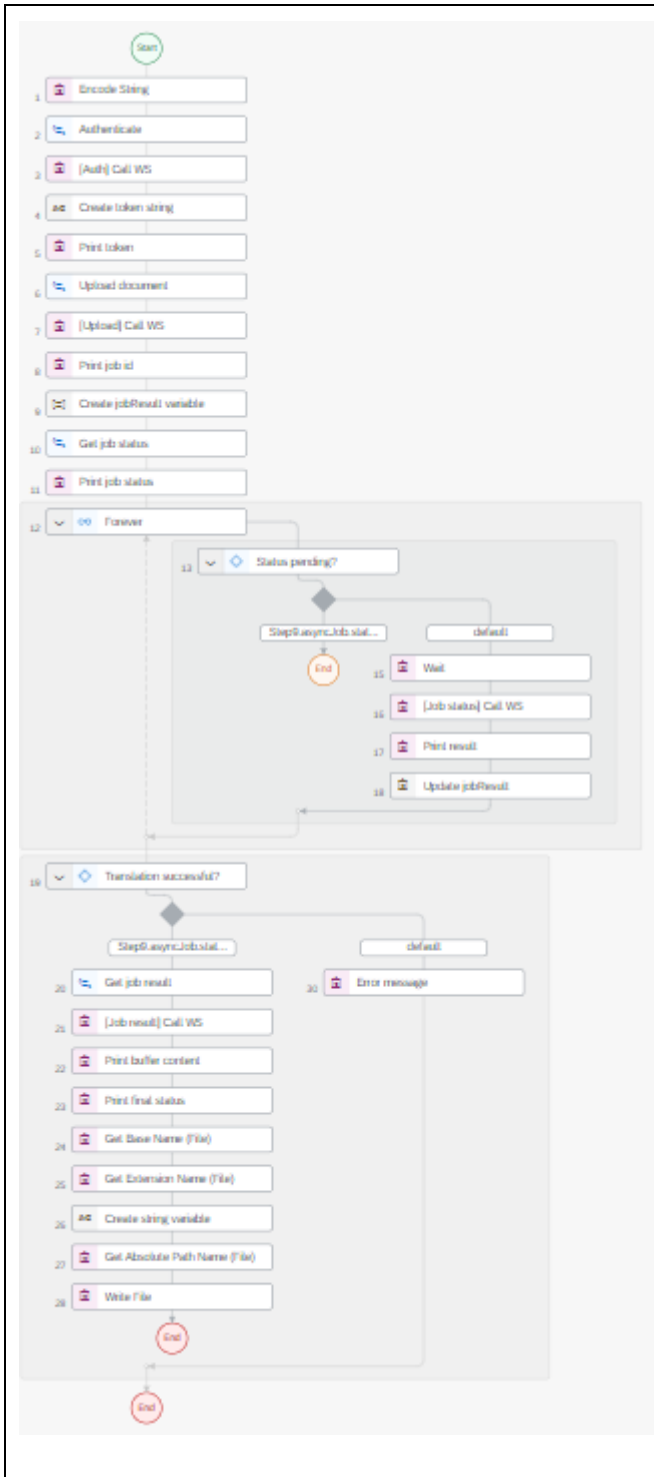
Automations

Translate Document

Type: Attended

Input: None

Output: None



The agent first encodes the clientId and clientSecret.

Then, it executes a query to get the token which will be used to authenticate to the service.

The file is then uploaded to the service and the job ID is retrieved from the response.

At this point, we create a variable of type jobResult (see datatype chapter) and we initialize the id, status and progress fields with the corresponding field values retrieved from the response payload.

The agent will then periodically (every 3 seconds) ask the service for the translation job status. The status and progress fields are updated in the jobResult variable (in the Status and Progress attributes).

Note: when the job is done, the service no longer returns a JSON response with a status field in the payload, so the bot manually sets the status to "DONE" as the actual response field would be undefined.

When the Status no longer evaluates to "PENDING" (could either be ERROR if there was an issue with the translation, or DONE), the agent exits the loop.

If, by the end of the periodic web service calls, the Status evaluates to "ERROR", the bot logs an error message informing you that the translation failed. Otherwise, it retrieves the translation result and stores the output in a Word (.docx) file.

End of the automation.

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 **2.0.11** or higher.

The following SDK dependencies were used to generate this sample:

irpa_core	1.10.69
irpa_excel	1.10.69
irpa_outlook	NA
irpa_pdf	NA
irpa_ui5	NA
irpa_word	NA
irpa_powerpoint	NA

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

Target application

Document Translation service

Date of last test:
18 June 2021

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

1. Set up an instance of the SAP Document Information Extraction service on your tenant
2. Generate the service key and get the following information from the key:
 - a. url
 - b. uaa.clientid
 - c. uaa.clientsecret
 - d. uaa.url
3. When you deploy the package, set the environment variables with the following information:

filePath	The location of the document you want to translate.
outputPath	The location where you want to translated document.
uaaClientId	uaa.ClientId from the service key
uaaClientSecret	uaa.ClientSecret from the service key
uaaUrl	uaa.Url from the service key
serviceUrl	url from the service key
targetLanguage	The language into which you want to translate your document.
sourceLanguage	The language of your input document.

4. You can also modify the value of the options in the activities, according to the [documentation](#).

EXPECTED OUTPUT

N/A

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