28/06/2021

AWS Translate extension

Bosbec Workflow Builder

English

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Table of Contents

Introduction

This document and the workflow template “AWS Translate extension” allows you to translate incoming message texts with AWS Translate in your messaging solutions. The workflow template is a pre-defined solution ready to be imported to your workflow from the Workflow Library.

To translate message texts with Bosbec WE it is required to make cryptographic hashing and several requests to the AWS Translate API., although this functionality is already built and accessible by calling a public workflow. There are a few configurations needed for this template and this guide will walk you through the prerequisite steps.

After the configuration is set up, this guide will end with an example of how to extend your current solution and attach the AWS Translate template to an existing workflow.

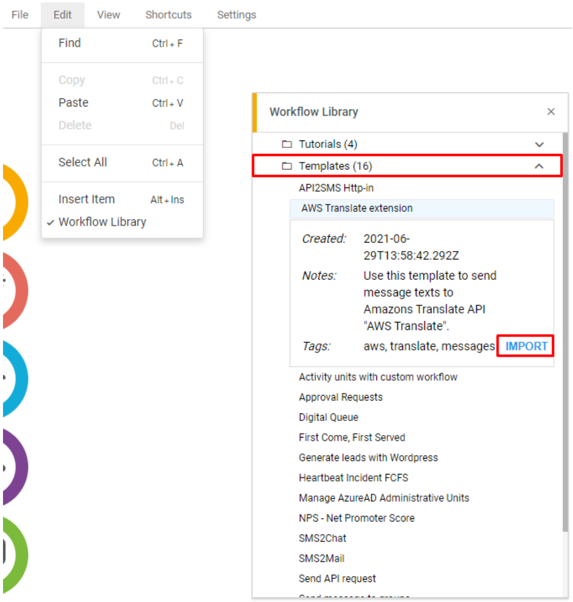
Prerequisites:

- You are logged in as an administrator at www.bosbec.io
    - *Permissions must be Moderator or higher to be able to create workflows.*

Configure your AWS Translate template

Import the template

To import the template, click on “Edit” in the top navigation bar to the left, select “Workflow Library”. This will open the Workflow Library consisting of pre-defined solutions and templates you can import to your workflow area. We will import the template “AWS Translate extension”, so expand the “Template” folder and locate the template. Select it and click “IMPORT”.



Workflow Library

Tutorials (4)

Templates (16)

API2SMS Http-in

AWS Translate extension

Created:	2021-06-29T13:58:42.292Z
Notes:	Use this template to send message texts to Amazons Translate API "AWS Translate".
Tags:	aws, translate, messages

Activity units with custom workflow

Approval Requests

Digital Queue

First Come, First Served

Generate leads with Wordpress

Heartbeat Incident FCFS

Manage AzureAD Administrative Units

NPS - Net Promoter Score

SMS2Chat

SMS2Mail

Send API request

Image 1: Click on “Edit” in the top left corner, select “Workflow Library”. Expand the “Templates” folder and select “AWS Translate extension”. Click “IMPORT”.

This will display a new collection of jobs and triggers in your work area. The top row of jobs is the setup of the request to Amazon. The bottom row, which starts with a trigger, handles the response from the translate API. See the image below to see how the workflow template is supposed to look.

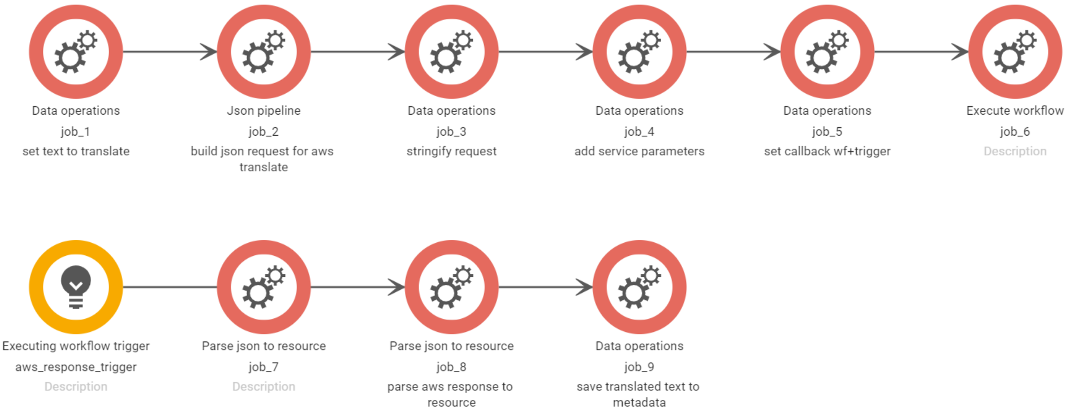


Image 2: The workflow template “AWS Translate extension”.

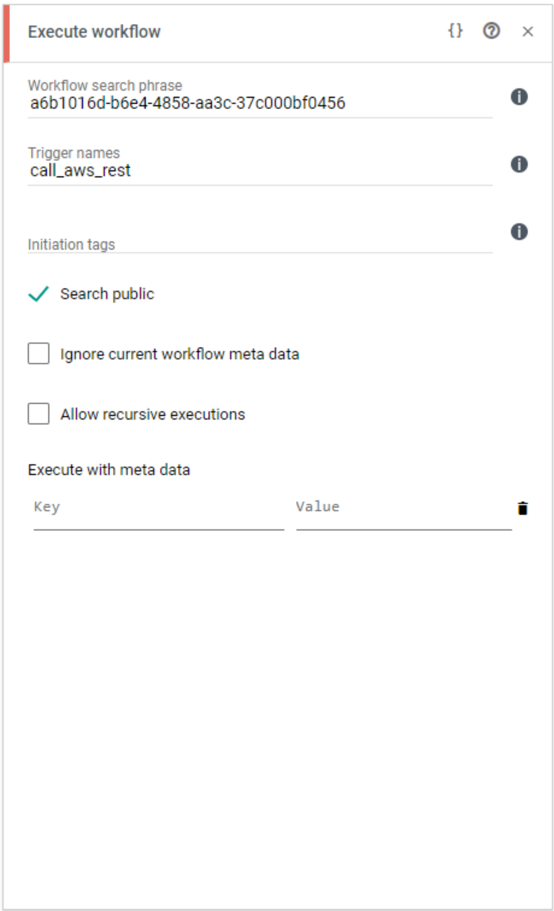
Configurations

This template requires two manual changes. The first change is to set the text you wish to translate. In the Data Operations job ”job_1”, set the ”Source” property to whatever text you want to translate. This could be an incoming message, extracted information, or text from a unit. If you don’t know what to set, see the example further down in this document as a guideline.

The second configuration is to call the application which does all the hashing and requests to the AWS Translate API. All needed in this template is to fill in the workflow ID of the application in the Execute workflow job “job_6”, at the far right in the top row. Set the “Workflow search phrase” property to the following ID:

```
a6b1016d-b6e4-4858-aa3c-37c000bf0456
```

See the image below to see what the job settings are supposed to look like.



Execute workflow

Workflow search phrase
a6b1016d-b6e4-4858-aa3c-37c000bf0456

Trigger names
call_aws_rest

Initiation tags

✓ Search public

□ Ignore current workflow meta data

□ Allow recursive executions

Execute with meta data

Key Value

Image 3: Set the property “Workflow search phrase” to the workflow ID above.

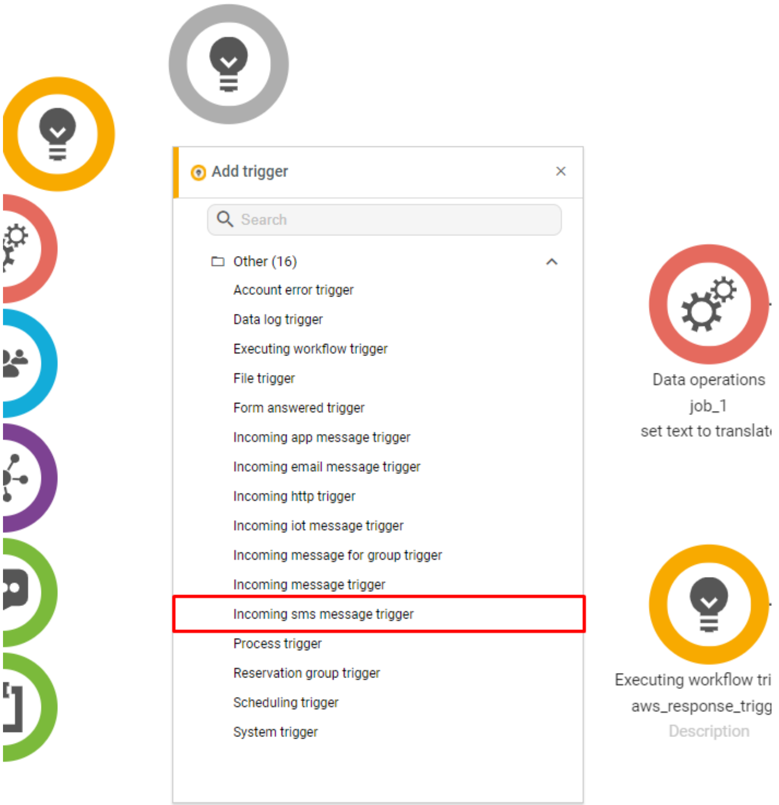
Now the configuration is all set! The remaining content of this guide is an example of how you can use this template to translate messages.

Example

This example will conclude this document and serve as an instruction on how you can connect the AWS Translate extension to already existing solutions, or if you want to use the translation template as a start to expand upon. In this example, we will receive a text to translate, and once it has been translated, the translated text will be returned to the sender.

Receiving original text message

With the AWS Translate extension template imported in your work area and configured as above, create an "Incoming SMS message trigger". Click and drag a trigger object from the left side of the interface and drop it to your work area. Locate the trigger in the list, see the image below.



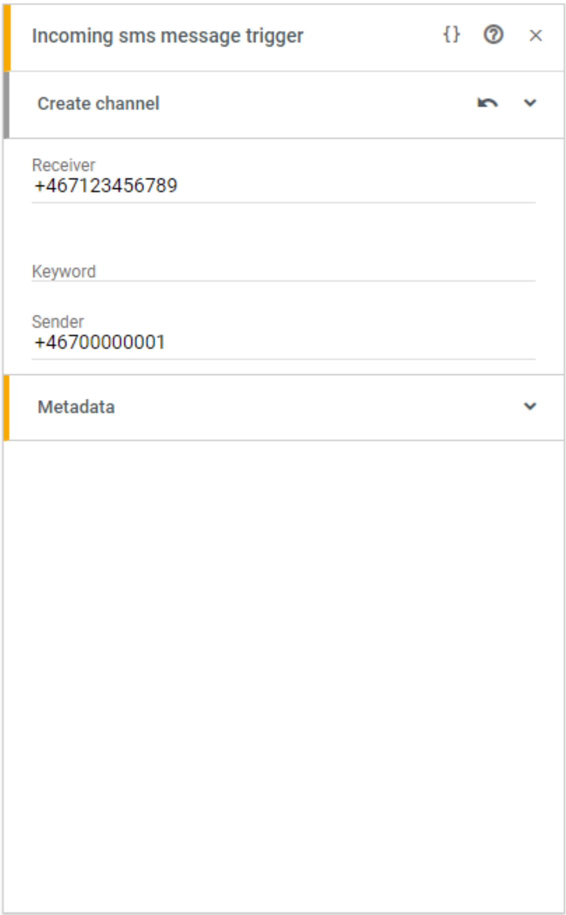
Add trigger ×

Search

Other (16)

- Account error trigger
- Data log trigger
- Executing workflow trigger
- File trigger
- Form answered trigger
- Incoming app message trigger
- Incoming email message trigger
- Incoming http trigger
- Incoming iot message trigger
- Incoming message for group trigger
- Incoming message trigger
- Incoming sms message trigger
- Process trigger
- Reservation group trigger
- Scheduling trigger
- System trigger

Image 4: Select the orange Trigger object from the left side of the workspace.



Incoming sms message trigger

Create channel

Receiver
+467123456789

Keyword

Sender
+46700000001

Metadata

Image 5: Set the "Receiver" property to one of Bosbecs incoming phone numbers. Set sender to all phone numbers that are allowed to send messages to this workflow.

Then we create a "channel", a communication between two endpoints, in the newly created trigger. Double-click on the trigger and select "New Channel". As "Receiver" use one of Bosbec's incoming phone numbers. If you do not have any, contact Bosbec Support. As the "Sender", we set a phone number that represents the user who will send in the text that should be translated. The image to the left will entail how this configuration may look.

To connect the trigger to the AWS Translate template, click and hold on the orange border of the trigger, which will display an arrow. Drag the arrow to the first job of the template and release it.

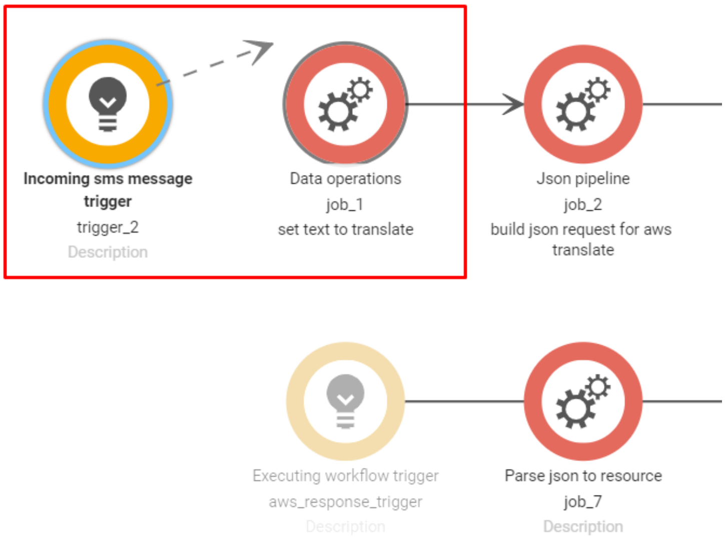
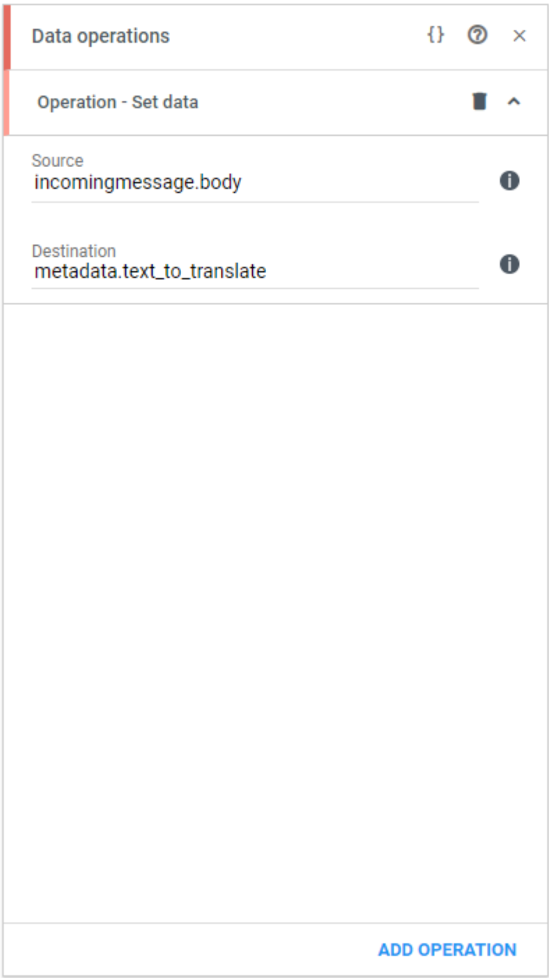


Image 6: Click and hold on the orange border of the "Incoming SMS message trigger", drag the arrow from the trigger to the first Data Operations job "job_1".



Source
incomingmessage.body

Destination
metadata.text_to_translate

Image 7: Set the "Source" property to "incomingmessage.body".

The trigger will listen for incoming messages to the incoming number and the message information will be stored in a variable called "incomingmessage". To get the incoming text message, set the "Source"-property to "incomingmessage.body". Now you have a text ready to translate.

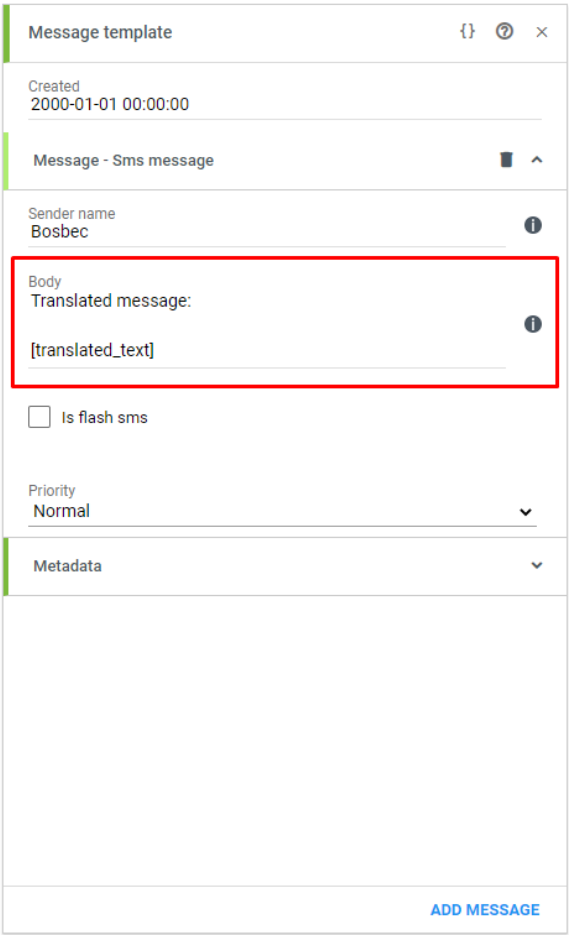
Return translated text to the sender

At the end of the template, we have the message text translated. In this example, we want to return that translated message to the recipient who sent the original message.

Drag and drop a job object from the left side of the workspace and select "Answer sender". Connect the job to the workflow by clicking the red border of the *last* job of the template and drop it on the "Answer sender"-job you just imported.

Finally, drag and drop a "Message Template" object from the left side of the workspace and release it in the work area, close to your "Answer sender" job. Select "Message template" in the window which will appear once you've released the object.

Connect the message template to the job "Answer sender" by clicking and holding on the green border of the Message template and dragging the arrow to the "Answer sender" job and releasing it.



Message template

Created
2000-01-01 00:00:00

Message - Sms message

Sender name
Bosbec

Body
Translated message:

[translated_text]

□ Is flash sms

Priority
Normal

Metadata

Image 8: Add "[translated_text]" to your message body to include the translated text from the AWS Translate request.

All that remains is to configure the Message template. Double-click on the message template and write [translated_text] in the "Body" property. The translated text returned from Amazon's translate API is stored in this metadata. It is important to wrap the metadata variable with hard brackets, otherwise, the reply will explicitly say "translated_text". You can also add more information to your message like we've done in this example.

At the end of the example, your workflow may look something like this.

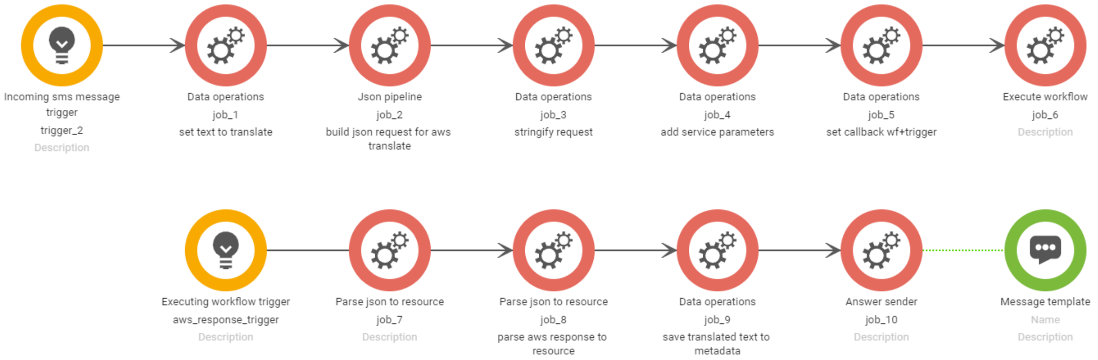


Image 9: Complete workflow example of translating an incoming message and returning it to the sender.

Further reading

If you want to learn more about Bosbec WE, or need help in your development, read more at https://help.bosbec.io/, or contact our support team.