

OutSystems Forge

Automation Anywhere Connector and Demo App

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1 ABOUT AGENTBASE AG

agentbase is an implementation partner for low-code development. With more than 20 years of experience in implementing low-code applications, we will support our customers with their current business challenges. Our focus is on business process automation and optimization.

2 RPA AND LOW-CODE: A VALUABLE COMBINATION

From our point of view, an exciting aspect is the interaction of Robotic Process Automation (RPA) and low-code. Because this synergy leads to more productivity in the IT departments. Both the IT staff and the software bot carry out the work steps that they can best carry out.

In this way, standardized processes (master data maintenance, form input, application processing, etc.) can be almost completely automated by RPA. In this way, IT employees are given more freedom and are freed up for value-adding activities, which reduces costs and sources of error.

However, when it comes to reacting quickly to changed business processes, low-code development is the right approach. Low code development means they can create applications with visual modeling and visual design. Thanks to low-code development, new developments are productively available in just a few weeks instead of months/years. Extensions are even available in days instead of months. A wishful thinking for those responsible in the specialist department, which becomes reality thanks to low-code.

3 ABSTRACT

This document describes the powerful integration of the OutSystems low-code platform with the Robotic Process Automation (RPA) system Automation Anywhere. You can use the OutSystems forge component "Automation Anywhere Connector" and the forge component "Automation Anywhere Demo App" to see how this connector can be used.

4 FORGE COMPONENTS

We offer you two forge components for the powerful integration of the OutSystems low-code platform with the Robotic Process Automation (RPA) system Automation Anywhere:

- Connector
- Demo Web Application

4.1 Automation Anywhere Connector

The connector is the OutSystems wrapper to the Automation Anywhere API. It enables an easy integration with legacy systems without APIs through Robotic Process Automation (RPA).

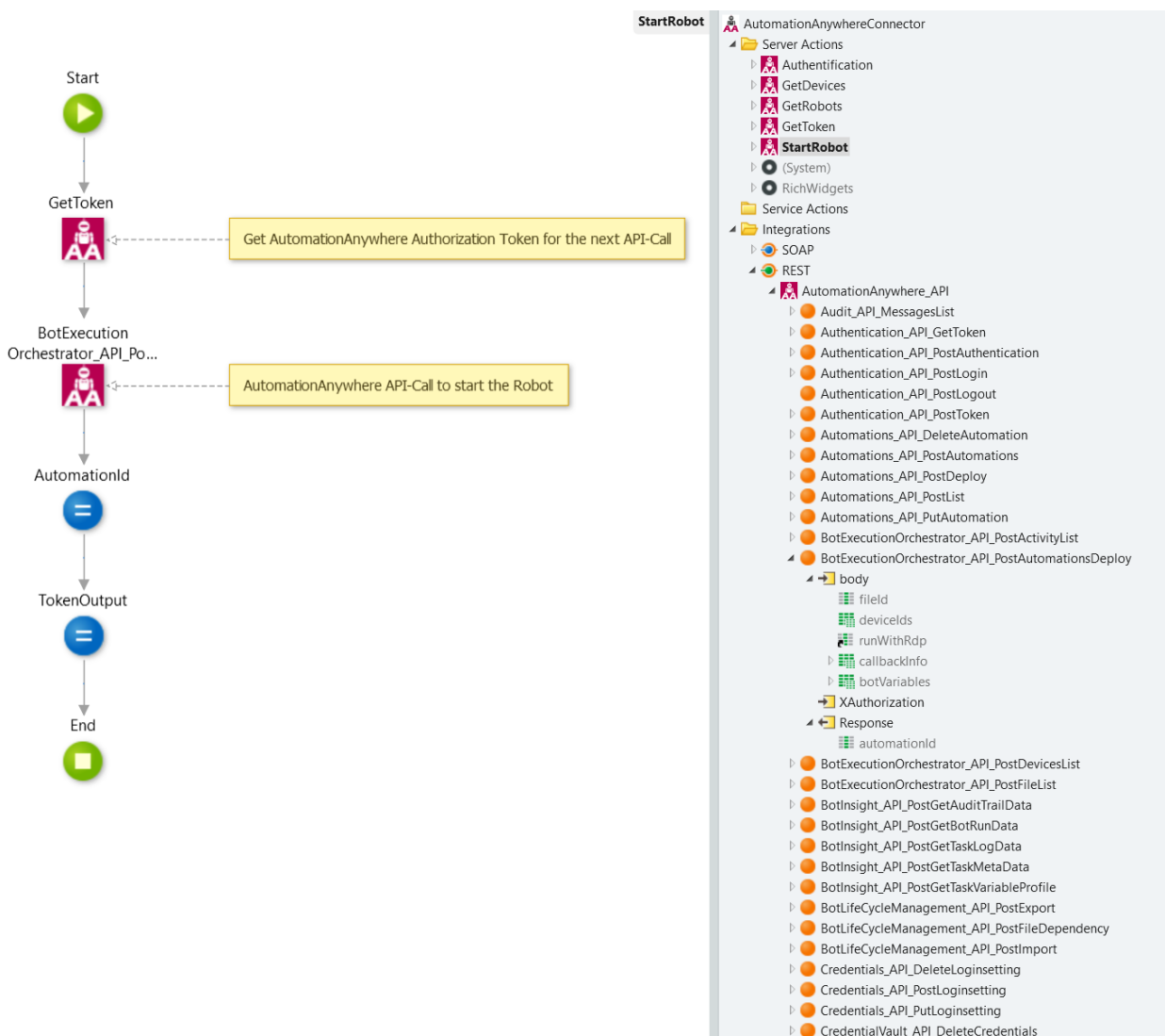


Fig. 1: Automation Anywhere connector logic layer

It comes along with:

- 92 Automation Anywhere API REST-Calls
- 5 server actions, which are used in the Demo Web Application and which you can use in your own OutSystems application, e. g. in your Actions or in an BPT (Business Process Technology) Automatic Activity
- 28 static entities
- 14 structures and
- 3 site properties

See chapter 3 “Configuration” to integrate this connector to your Automation Anywhere environment.

4.2 Automation Anywhere Demo App

This is a demo web application which helps you to integrate your Automation Anywhere for testing purpose. If you want to trigger your robot through OutSystems using the API, this application will help you.

It comes along with:

- a dependency to the Automation Anywhere connector
- 3 web screens for a demo
- a web block RobotListPerCategory, see figure below:

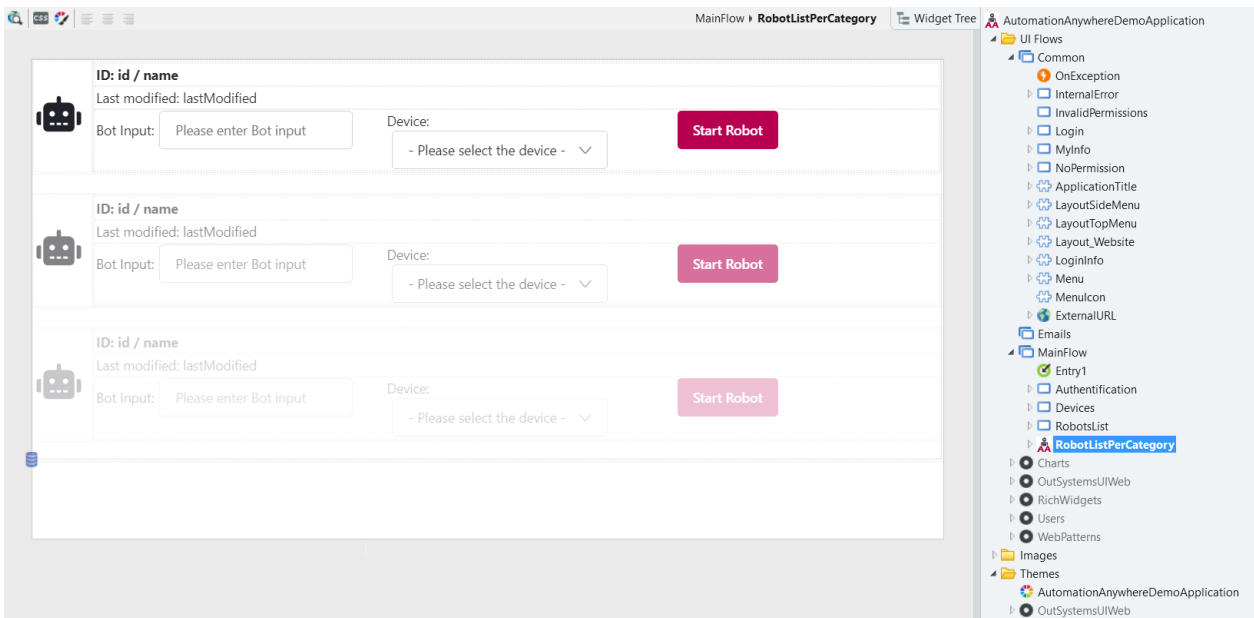


Fig. 2: Automation Anywhere Demo App interface layer

- 2 server sections for the categorization of robots
- a session variable to save the token

4.2.2 Devices Demo Screen

This screen demonstrates the “GetDevices” server actions to get the devices on which the robots can be started:

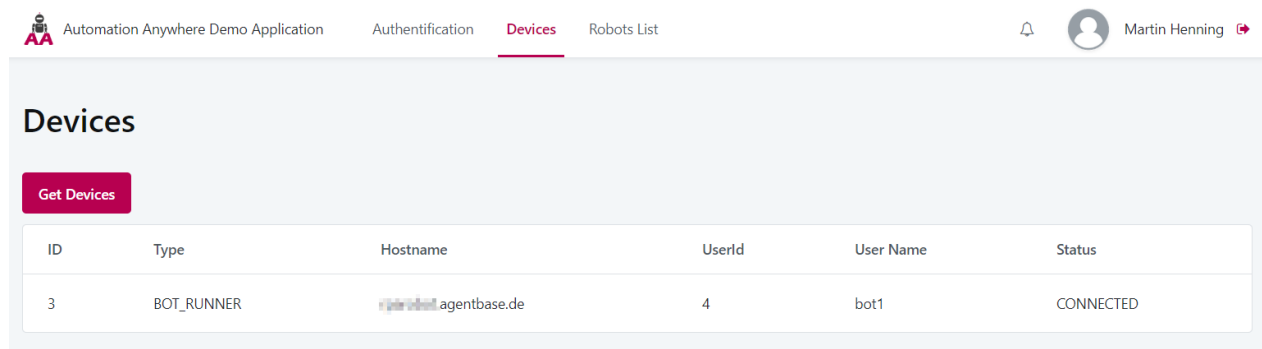


Fig. 4: Automation Anywhere Demo App Devices Screen

4.2.3 Robots Demo Screen

This screen demonstrates the “GetRobots” and “GetDevices” server actions to get the robots and the devices on which the robots can be started. The robots are shown in a categorized view such as in the Automation Anywhere control room. Via the “StartRobot” server action the robot can be started with an example bot input on the selected device. After starting the robot the robot automation ID is returned.

Automation Anywhere Demo Application Authentif

Bot run with Automation ID: 186

Robots List

Get Robots List

My Tasks

- Bot Store
- bpm
 - ID: 63 / Excel.atmx**
Last modified: 19.07.2019 04:04
Bot Input: Device: **Start Robot**
 - ID: 64 / checkMailText.atmx**
Last modified: 17.10.2019 11:51
Bot Input: Device: **Start Robot**
 - ID: 65 / sendSMTP.atmx**
Last modified: 17.10.2019 11:51
Bot Input: Device: **Start Robot**
- OutSystems
 - ID: 78 / getCityByID.atmx**
Last modified: 22.01.2020 12:21
Bot Input: Device: **Start Robot**

Fig. 5: Automation Anywhere Demo App robot screen

5 CONFIGURATION

In order to configure the Automation Anywhere connector you have to do following two actions after installing the connector in your OutSystems environment:

5.1 Site Properties

Please enter the technical user credentials in the Automation Anywhere connector site properties for

- Login_Username and
- Login_Password

The screenshot displays the configuration interface for the 'AutomationAnywhereConnector'. The left sidebar shows a tree view of the connector's structure, with 'Site Properties' expanded. The 'Login_Username' property is highlighted in blue. The main area shows the details for the 'Login_Username' property, including its name, description, data type (Text), and default value. The property is created by martin.henning and last modified on 5. February at 10:04.

| Name | Login_Username |
|-----------------|----------------|
| Description | ... |
| Data Type | Text |
| Default Value | "[REDACTED]" |
| Advanced | |
| Is Multi-tenant | |

Created by martin.henning
Last modified by INT\martin.henning on 5. February at 10:04

Fig. 6: Site properties for login

5.2 Base URL

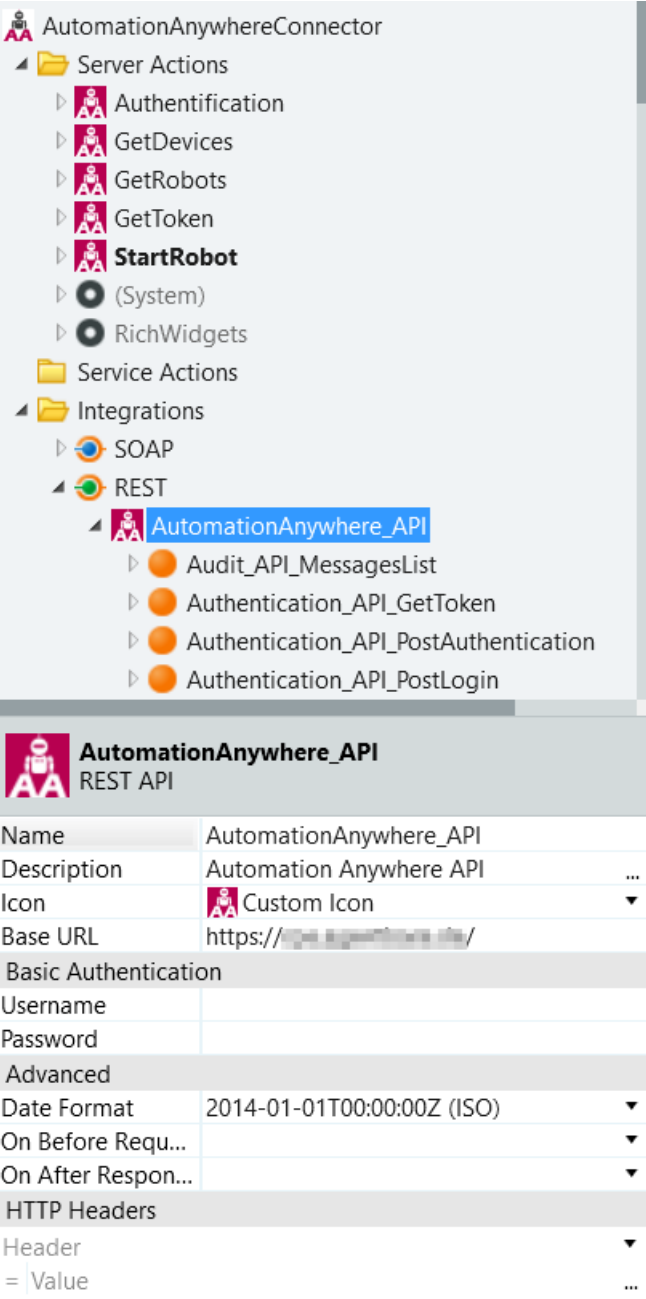
Please enter the the base URL for your Automation Anywhere API, in the format:

https://<your_automation_anywhere_base_url>/

e. g.:

https://rpa.outsystems.com/

See figure 7:



The screenshot displays the configuration interface for the Automation Anywhere API. The top section shows a tree view of the connector's actions, with 'AutomationAnywhere_API' selected under the REST category. The bottom section shows the configuration details for this API, including the base URL 'https://rpa.outsystems.com/'.

| AutomationAnywhere_API | |
|------------------------|------------------------------|
| Name | AutomationAnywhere_API |
| Description | Automation Anywhere API ... |
| Icon | Custom Icon ▼ |
| Base URL | https://rpa.outsystems.com/ |
| Basic Authentication | |
| Username | |
| Password | |
| Advanced | |
| Date Format | 2014-01-01T00:00:00Z (ISO) ▼ |
| On Before Requ... | ▼ |
| On After Respon... | ▼ |
| HTTP Headers | |
| Header | ▼ |
| = Value | ... |

Fig. 7: Configure Automation Anywhere API base URL

In alternative you can change it in the service center, so you can have base URLs per environment (dev.tst, prod etc) without touching code. Just go to service center -> Your module -> Integrations -> click on the desired REST and change the effective URL, see below:

Module AutomationAnywhereConnector

Application: [Automation Anywhere Connector](#)

Description: **OutSystems Automation Anywhere Connector**

Status: **The Module is OK. No messages to show.**

Last Published: **28-01-2020 10:45:12** by **Martin Henning**

Download Published Version | Redeploy Published Version | Delete Module | Publish all consumers

Integrations

Consumed REST APIs

REST APIs consumed by your Module. To edit the URL, Basic Authentication or logging level, select its name.

| Name | URL | Basic Authentication | Logging Level |
|------------------------|--------------|----------------------|---------------|
| AutomationAnywhere_API | https://r... | | Default |

Fig. 8 Consumed REST APIs

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