



**Weidmüller** 

## **Quick Start Guide - u-create PROCON WEB for UC20-SL2000-AC**

Instructions for the first steps in creating visualizations for UC20-SL2000-AC

**QSG0001 UC-S Create a simple u-create PROCON WEB project for UC20-SL2000**

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### Revision history

Version	Date	Change log	Author
01	2019-05	First released version	W010843
02	2020-04	Minor corrections	W010843

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## 1. Warning and disclaimer

### Warning

Controls may fail in unsafe operating conditions, causing uncontrolled operation of the controlled devices. Such hazardous events can result in death and / or serious injury and / or property damage. Therefore, there must be provide safety equipment/ electrical safety design or other redundant safety features that are independent from the automation system.

### Disclaimer

This Example / Application Note does not relieve you of the obligation to handle it safely during use, installation, operation and maintenance. Each user is responsible for the correct operation of his control system.

By using this program example / application note prepared by Weidmüller, you accept that Weidmüller cannot be held liable for any damage to property and / or personal injury that may occur because of the use.

### Note

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### Security notes

In order to protect equipment, systems, machines and networks against cyber threats, it is necessary to implement (and maintain) a complete state-of-the-art industrial security concept. The customer is responsible for preventing unauthorized access to his equipment, systems, machines and networks.

Systems, machines and components should only be connected to the corporate network or the Internet if necessary and appropriate safeguards (such as firewalls and network segmentation) have been taken.

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## 2. Abstract

This quick start guide contains instructions how to install necessary software and how to create a u-create PROCON WEB project for UC20-SL2000-AC controllers including the process data access using the u-control driver.

## 3. Requirements

To create a visualization project for UC20-SL2000-AC please install the latest versions of the necessary development tools u-create studio and u-create PROCON WEB.

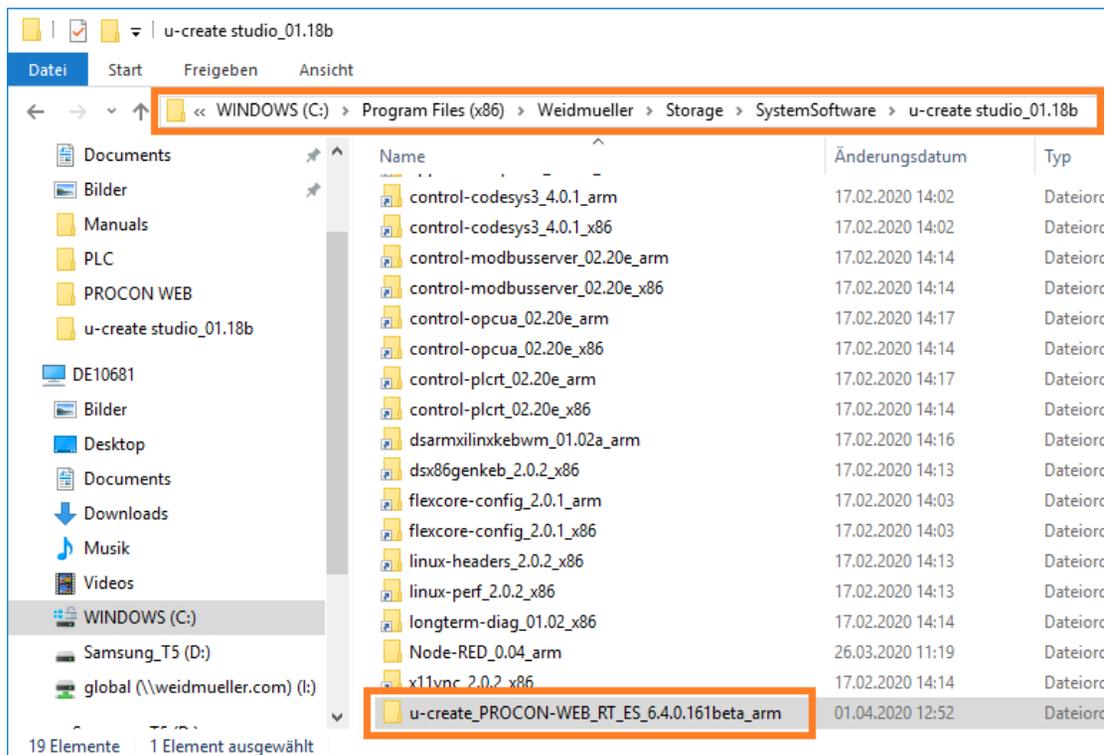
- u-create studio 01.18b
- u-create PROCON WEB Designer 6.4
- u-create\_PROCON-WEB\_RT\_ES\_6.4.0.161beta\_arm

## 4. Install Visu Runtime Service

After u-create studio was installed successfully please install the attached software unit.

To install the software unit please copy the folder

**u-create\_PROCON-WEB\_RT\_ES\_6.4.0.161beta\_arm** to the **SystemSoftware** directory of your u-create studio installation. Now you can add the visualization runtime service as optional package when you create a target for your u-control.



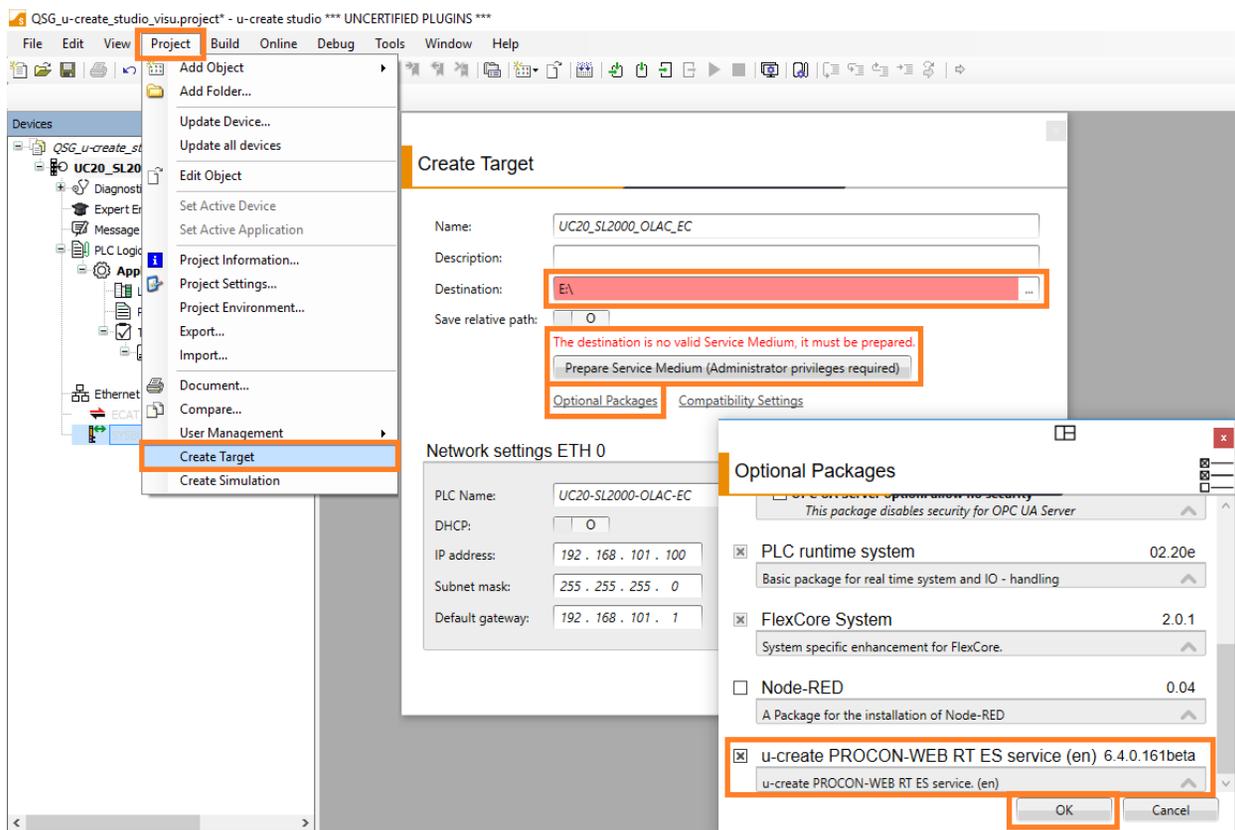
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## 5. Create Target

To create a target and to install it on your u-control you first need an empty micro SD card and insert it into your computer. Then follow the next steps:

1. Start u-create studio and create a new project or open an existing project
2. Find **Project** in your toolbar and click **Create Target**
3. Select destination path  
(the inserted SD card may need to be prepared for the process)
4. Select **u-create\_PROCON-WEB\_RT\_ES\_6.4.0.161beta\_arm** in **Optional Packages** list
5. Change network settings if necessary
6. **Create** target (this will take several minutes)



### Note

The create target process will create a bootable SD card. This process may need administrator rights. If an error occurs during the create target process, please close u-create studio and execute again with administrator rights.

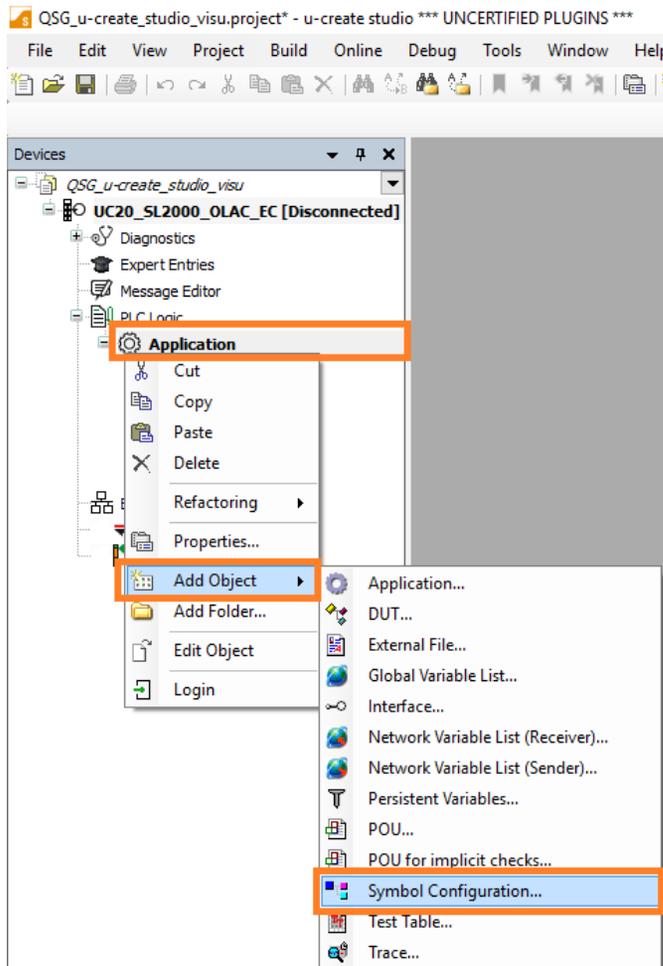
When create target process was finished successfully insert micro SD card into u-control and reboot the device. Orange flashing RUN led indicates the installation process. When installation is finished successfully RUN led is constantly green. Remove SD card from u-control.

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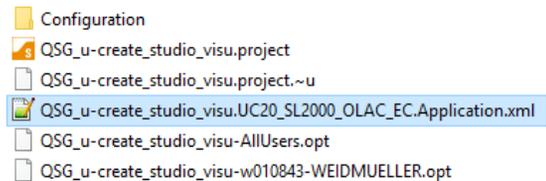
## 6. Symbol Configuration

If you want to use process variables in your visualization you need to add a **Symbol Configuration** to your u-create studio application.



Use checkboxes to select all variables you want to use in your visualization. After changing symbol configuration click **Build** → **Generate code**.

This procedure creates a .xml file in your project directory which contains all symbol configuration information.



### Note

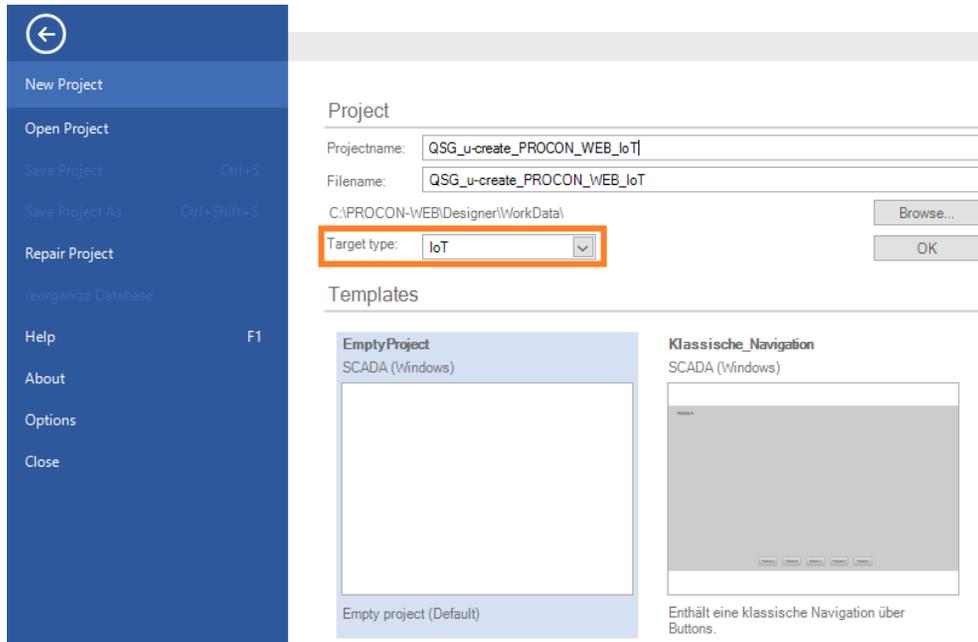
Global variables must be used in your project to appear in the symbol configuration.

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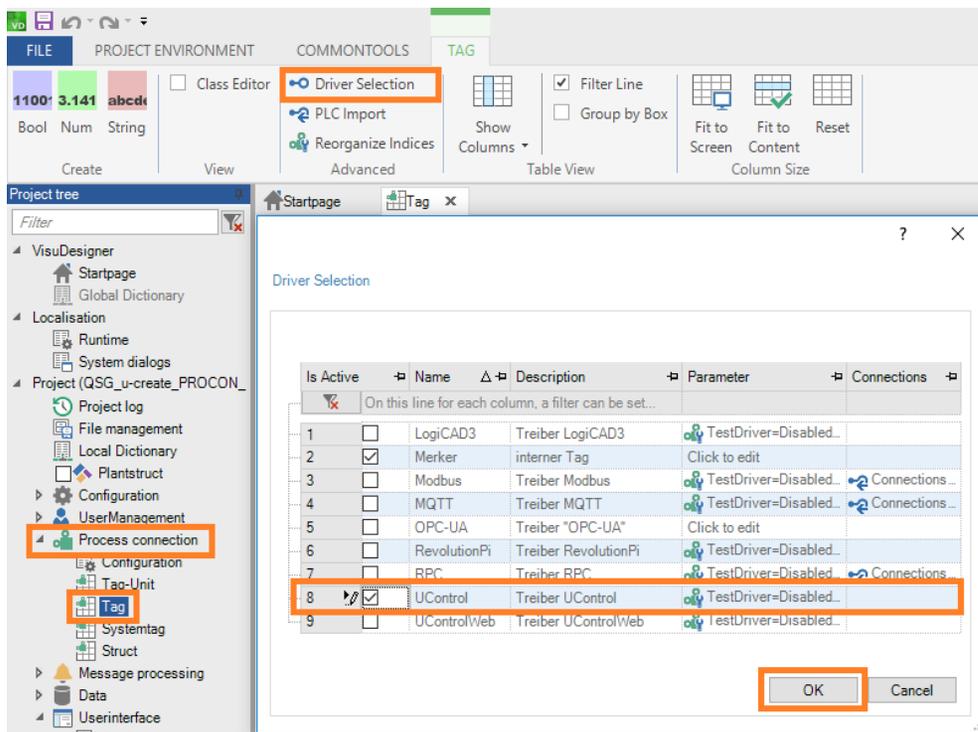
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## 7. Create Visualization

Start PROCON WEB Designer and create a new project and select target type IoT or open an existing project of this type.



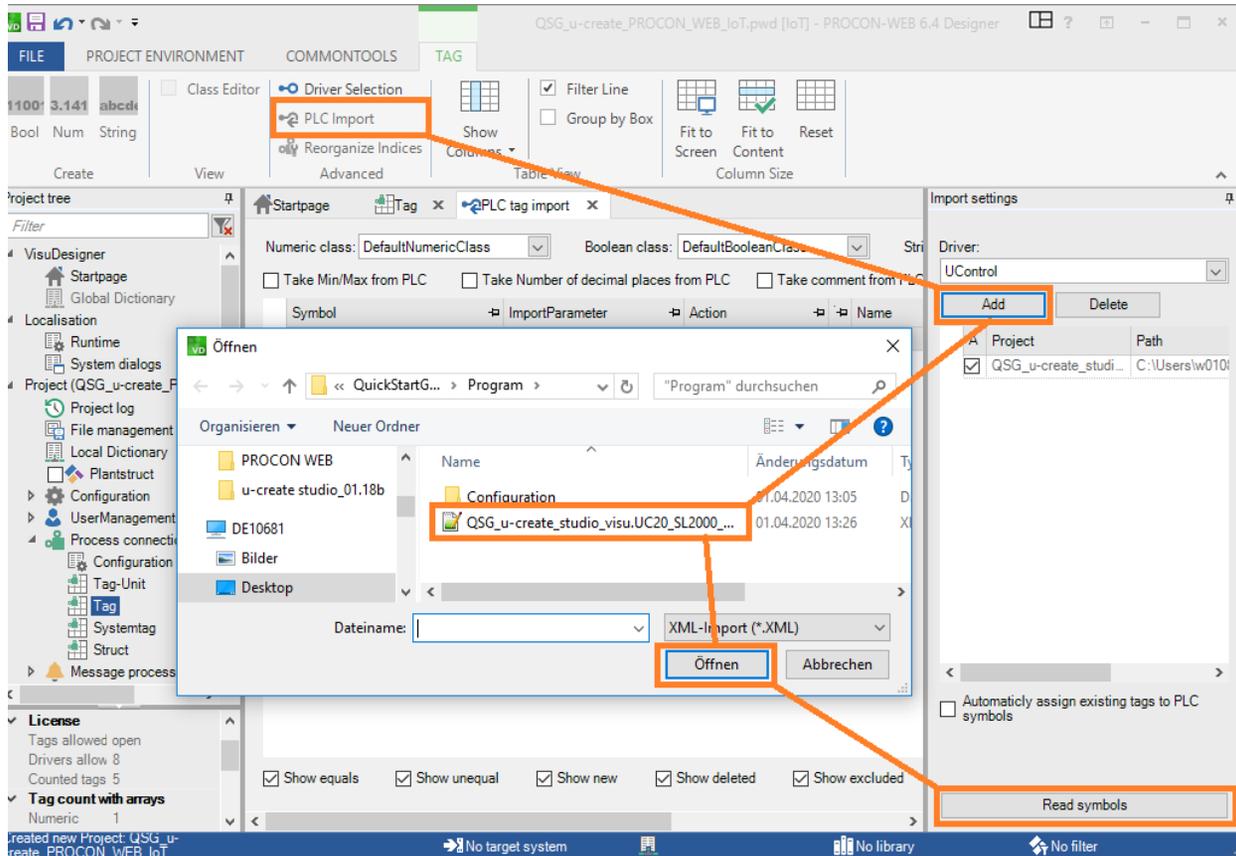
Select **UControl** driver from **Driver Selection**.



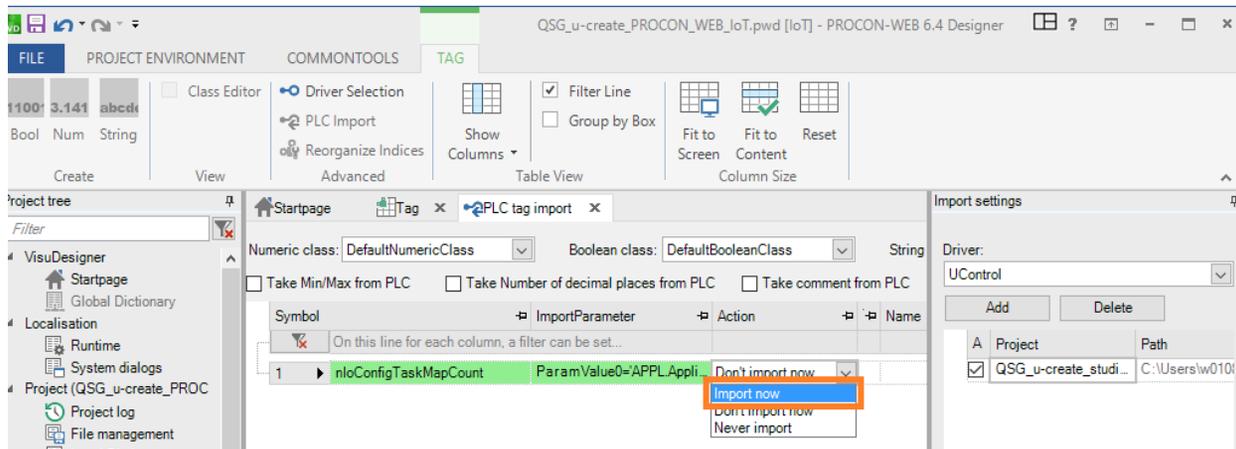
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Click **PLC Import** and open the .XML file from u-create studio project directory and click **Read symbols**.



Select variables you want to use in your visualization and click **Import now** to add them to your tag list. Now you can use the plc variables in your project.

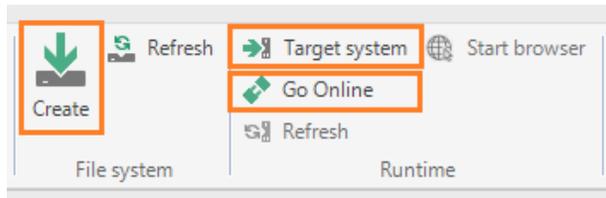


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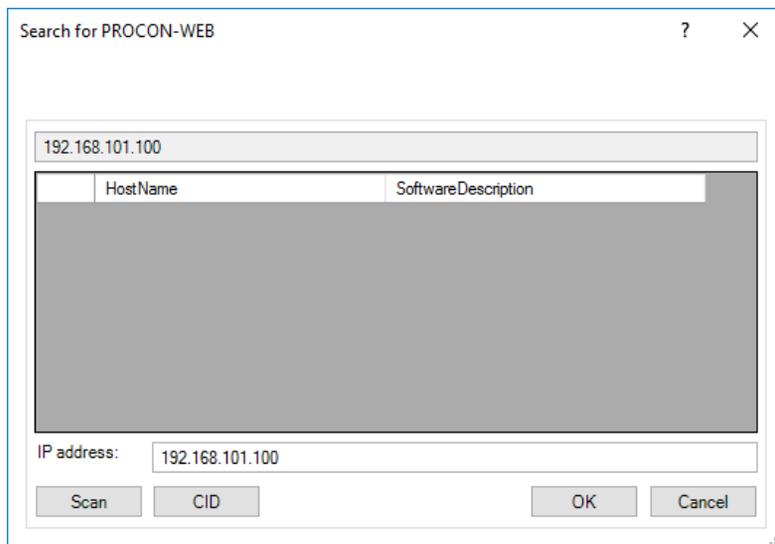
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## 8. Download Visualization Runtime

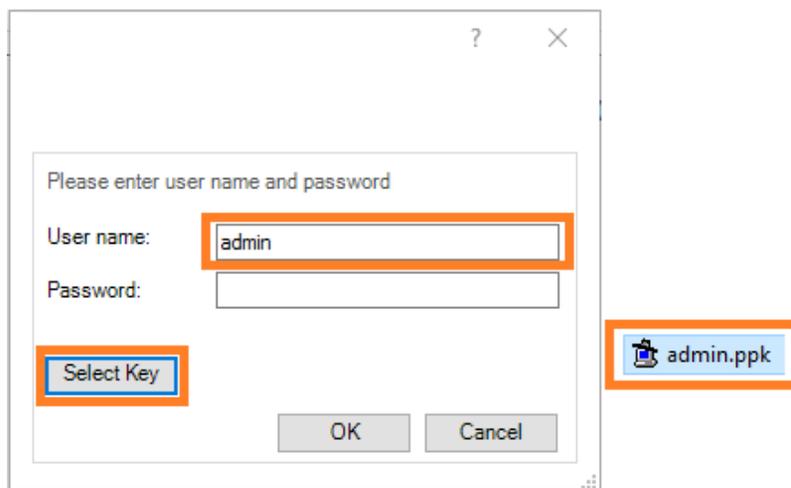
Last step is to download the visualization runtime to the u-control. First click **Create** to generate the runtime.



Then select **Target system** by entering the IP address of your u-control.

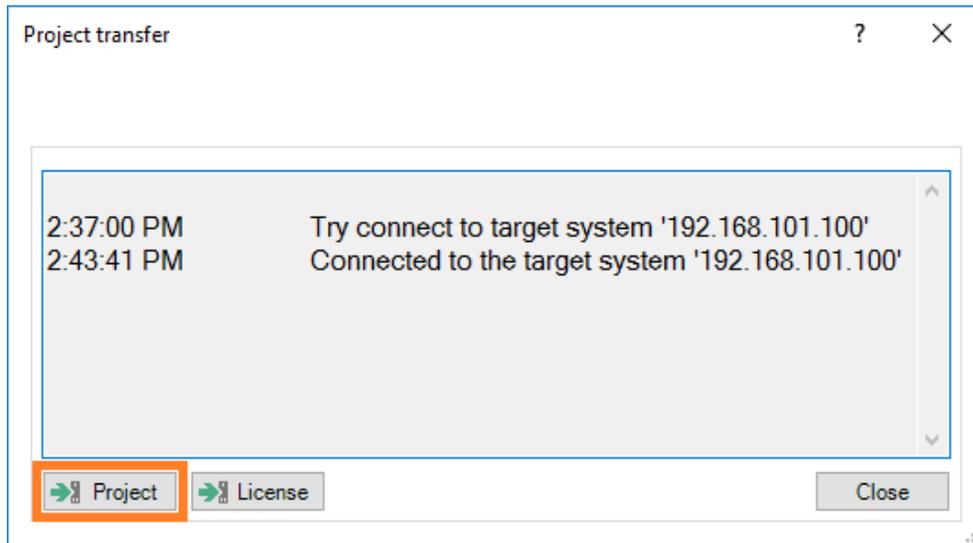


Click **Go Online** and enter user name **admin** and select your private key file for ssh access.

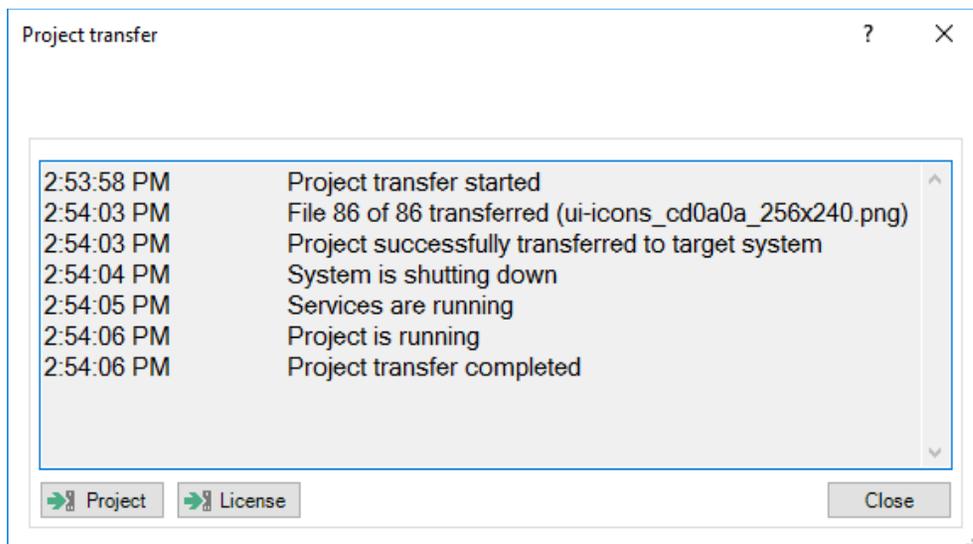


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Click **Project** to transfer the visualization to the u-control.



When the project transfer is completed you can open your visualization in your web browser by entering the IP address of the u-control and port number 16700. (example: 192.168.101.100:16700).

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