



Your Global Automation Partner

TAS Edge IoT IoT Configuration Software

Getting Started

Contents

1	About these instructions	3
1.1	Explanation of symbols	3
1.2	Target groups	3
1.3	Feedback about these instructions	3
2	Notes on the software	4
2.1	System requirements	4
2.2	TURCK service	5
3	Intended use	6
3.1	Obvious misuse	6
4	System description	7
4.1	Properties and features	7
5	Commissioning	8
5.1	Commissioning TAS Edge on a PC	8
5.2	Installing TAS Edge and TAS Cloud connector on a TURCK HMI	8
6	Setting	12
6.1	Loading the IODD with TAS	12
6.2	Creating IOT templates	14
6.3	Adapting IOT templates (optional)	16
6.4	Configuring connection settings in IOT Edge	18
6.5	User management	20
6.5.1	Editing user roles	21
6.6	Activating a license	23
7	Operation	29
7.1	Displaying data from the MQTT broker	29
8	TURCK branches — contact data	30

1 About these instructions

1.1 Explanation of symbols

The following symbols are used in these instructions:



DANGER

DANGER indicates a hazardous situation with a high level of risk, which, if not avoided, will result in death or serious injury.



WARNING

WARNING indicates a hazardous situation with a medium level of risk, which, if not avoided, will result in death or serious injury.



CAUTION

CAUTION indicates a hazardous situation with a medium level of risk, which, if not avoided, will result in moderate or minor injury.



NOTICE

CAUTION indicates a situation which, if not avoided, may cause damage to property.



NOTE

NOTE indicates tips, recommendations and important information about special action steps and issues. The notes simplify your work and help you to avoid additional work.



MANDATORY ACTION

This symbol denotes actions that the user must carry out.



RESULT OF ACTION

This symbol denotes the relevant results of an action.

1.2 Target groups

These instructions are intended for personnel with basic knowledge of IO-Link and IT systems. These instructions must be read carefully by any person who commissions or operates the software.

1.3 Feedback about these instructions

We make every effort to ensure that these instructions are as informative and as clear as possible. If you have any suggestions for improving the design or if some information is missing in the document, please send your suggestions to techdoc@turck.com.

2 Notes on the software

This document describes TAS Desktop version 2.1.0.0 and TAS Edge version 2.1.0.0.

2.1 System requirements

TAS Edge IoT can be used in two different ways:

- Via TAS Desktop on a PC
- On TURCK HMIs in the TX product series

TAS Edge IoT (included in TAS Desktop)	TAS Edge IoT (installation on TURCK HMIs in the TX product series)
<ul style="list-style-type: none">■ Supported operating systems:<ul style="list-style-type: none">– Windows 10– Windows 11■ Network connection■ Browser■ TURCK IO-Link master (TBEN-L..., TBEN-S..., FEN20...)■ MQTT broker (TURCK recommends: HIVEMQ, RabbitMQ or Mosquitto)	<ul style="list-style-type: none">■ Browser (access to the configuration)■ TAS Edge-compatible TURCK HMI (see table below)■ Network connection■ TURCK IO-Link master (TBEN-L..., TBEN-S..., FEN20...)■ MQTT broker (TURCK recommends: HIVEMQ, RabbitMQ or Mosquitto)

TAS Edge-compatible TURCK HMIs (BSP ≥ 1.3)

The following devices and device families from the TX product family fully support TAS Edge:

- TX400 product series
- TX800 product series
- TXF800 product series

Type	ID
TX715-P3CV01	100002032
TX721-P3CV01	100002033
TX700Q-P3WV01	100009355
TXF715-00VP20	100017847
TXF721-00VP20	100017849

The following TX devices support TAS Edge with limited functionality:

Type	ID
TX700D-P3WV01	100009354
TX707-P3CV01	100002030
TX710-P3CV01	100002031
TX207-P3CV01	100002080
TXF707-00VP20	100017841
TXF710-00VP20	100017845
TX707FB-P3CV01	100007471
TX707HB-P3CV01	100007473
TX710HB-P3CV01	100007474



NOTE

TURCK will support you in selecting a suitable TURCK HMI from the TX product series for your application.

2.2 TURCK service

TURCK supports you in your projects — from the initial analysis right through to the commissioning of your application. At www.turck.com, you will find software tools for programming, configuring or commissioning, as well as data sheets and CAD files in many export formats.

For the contact details of our branches worldwide, please see page [▶ 30].

3 Intended use

TAS Edge is used to continuously convert sensor data and actuator data and to forward this data as MQTT messages to IT and cloud systems via an MQTT broker.

TAS Edge IOT Demo is limited to 12 hours of usage per day. Continuous operation requires a version of TAS Edge IOT that is subject to a license. TAS Edge is used to publish sensor and actuator data to target systems.

The software must only be used as described in these instructions. Any other use is not in accordance with the intended use. TURCK accepts no liability for any resulting damage.

3.1 Obvious misuse

- TAS Edge is not designed to set commands and process output data at field device level via the target system.
- If several users with different user permissions access TAS Edge, TURCK recommends that user management be planned in such a way that unauthorized persons cannot make any changes to configurations or perform device actions.

4 System description

TAS Edge is a software environment that records and transfers data from IO-Link devices, sensors and actuators. Data can thereby be processed locally and then forwarded. TAS Edge combines data points (e.g. for temperature, vibration, pressure, flow) into data point templates (IOT templates). The IOT templates can be adapted for specific devices. If a particular IO-Link device is used multiple times, IOT templates can be stored as defaults so that the IOT templates can be automatically assigned to the compatible devices. TAS Edge can be used alone or in parallel with a control system for forwarding data to IT and cloud systems.



NOTE

If TAS Edge is used in parallel with a control system, the control system takes precedence. You can configure how often the data is collected in the device network in the TAS IOT Edge Service settings.

4.1 Properties and features

TAS Edge IoT (TAS Desktop)

- TAS Edge IoT is integrated into TAS Desktop.
- TAS Edge collects cyclical IO-Link data (parameter data, observation, process data, and diagnostics) and converts the data into acyclic MQTT messages.
- IO-Link devices are supported regardless of the manufacturer if they are connected to a TURCK IO-Link master and have an IODD.
- TAS Edge allows data to be captured and forwarded using IOT templates via MQTT.
- Supported target systems:
 - TAS Cloud
 - AWS cloud
 - MQTT broker (see [▶ 4])
- The TAS-EDGE-IOT-ON-SERVER license enables the continuous 24-hour operation of the TAS IOT Edge service.

TAS Edge IoT (installation on TURCK HMIs)

- TAS Edge IoT (installation on TX devices) can be operated on HMI interfaces.
- TAS Edge collects cyclical IO-Link data (parameter data, observation, process data, and diagnostics) and converts the data into acyclic MQTT messages.
- IO-Link devices are supported regardless of the manufacturer if they are connected to a TURCK IO-Link master and have an IODD.
- TAS Edge allows data to be captured and forwarded using IOT templates via MQTT.
- Supported target systems:
 - TAS Cloud
 - AWS cloud
 - MQTT broker (see [▶ 4])
- The TAS-EDGE-IOT-ON-DEVICE license enables the continuous 24-hour operation of the TAS IOT Edge service.

5 Commissioning

5.1 Commissioning TAS Edge on a PC

TAS Edge IoT is included in TAS Desktop. The latest version of TAS Desktop is available for download at [turck.com](https://www.turck.com).

5.2 Installing TAS Edge and TAS Cloud connector on a TURCK HMI



NOTE

To avoid installation errors, do not close the browser window during installation.

Prerequisites:

- The TURCK HMI (TX) is connected to the PC and the power supply.
- The PC is connected to the internet.
- TAS DESKTOP is open.
 - ▶ Open **TAS Edge Gateways**.
 - ▶ Click **Scan network**.

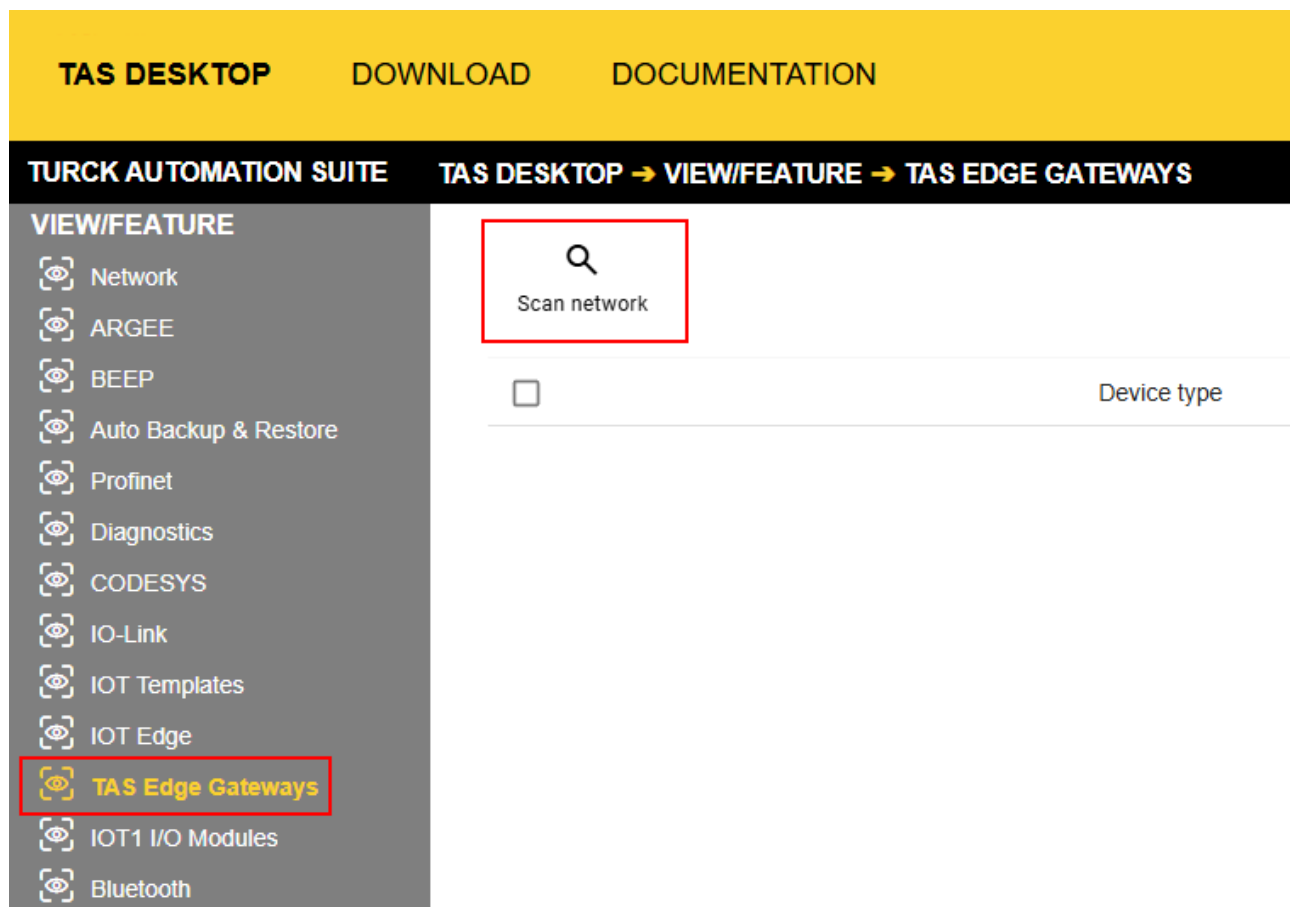


Fig. 1: Searching for TAS Edge Gateway

- Click **Install TAS Edge**.

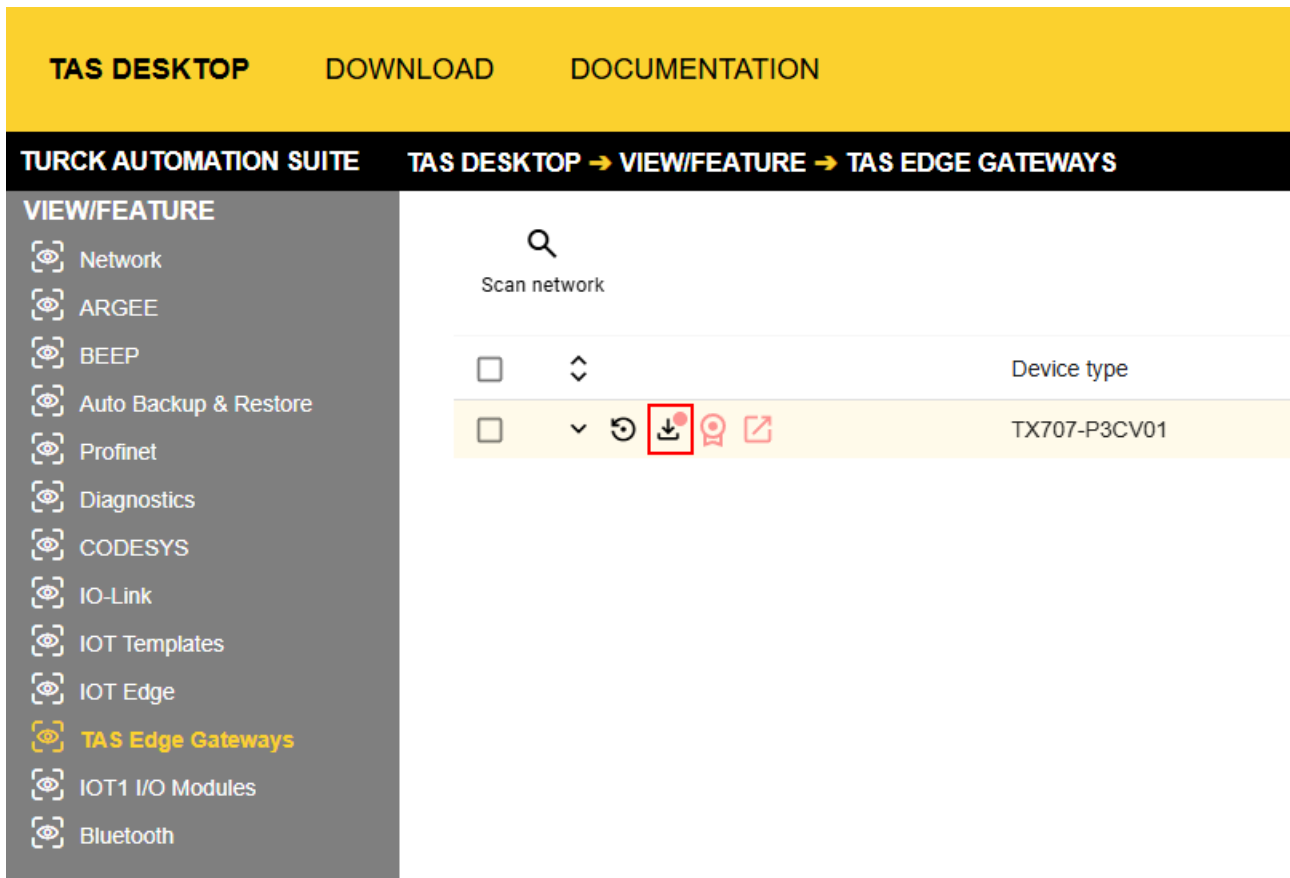


Fig. 2: Loading TAS Edge

- Select **TAS Edge for TX devices...**, **Codemeter Runtime for TX devices...** and **TAS Cloud Connector for TX devices...**
- Click **Install TAS Edge**.

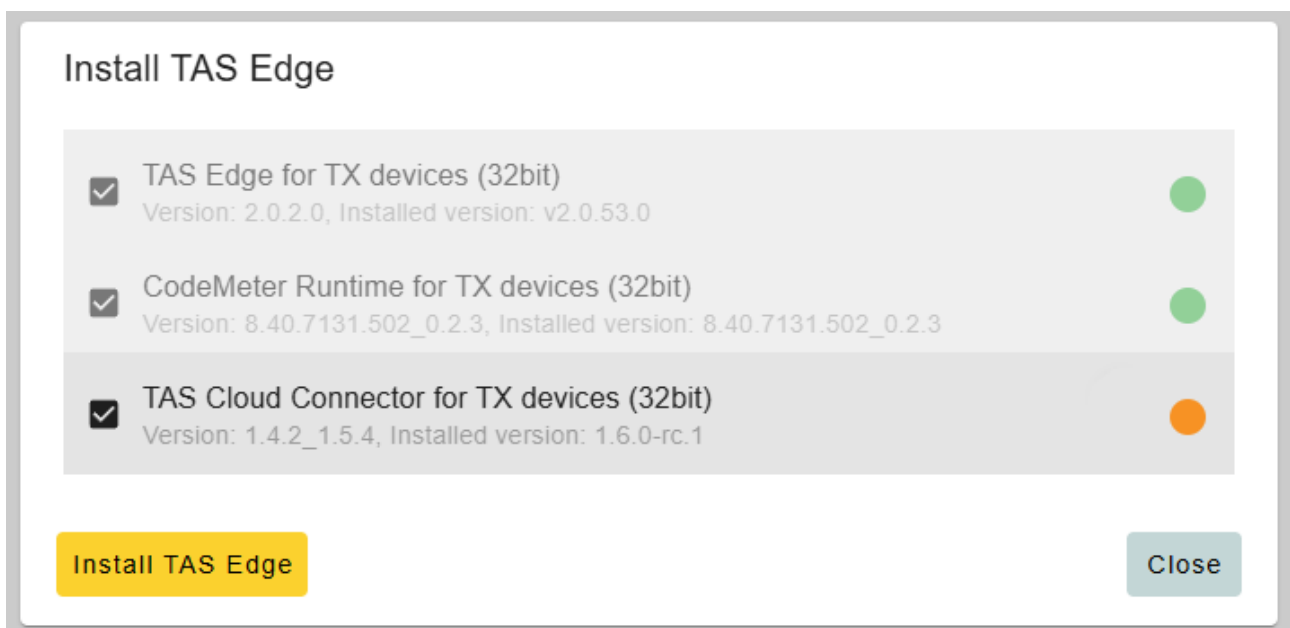


Fig. 3: Selecting the software to be installed

For TURCK HMIs (TX) with BSP version ≥ 5.1 , the following setting must also be activated:

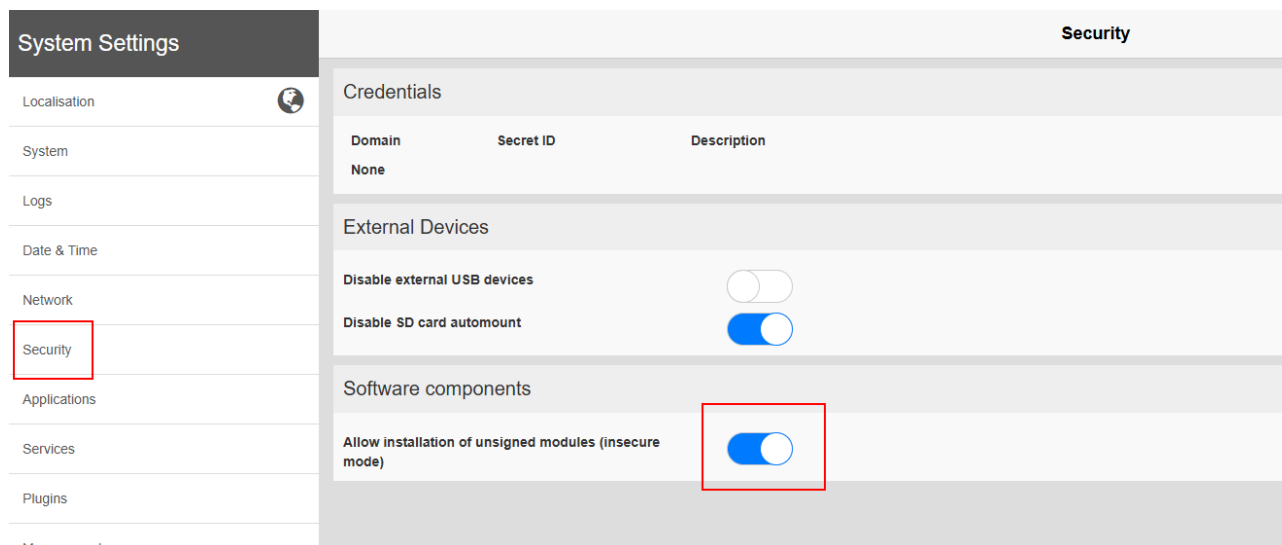


Fig. 4: Security settings: TX BSP ≥ 5.1

The TURCK HMI must then be restarted.

- Click **Restart device**.



Fig. 5: Restarting the device

TAS Edge can be opened on the TURCK HMI via the **Open TAS Edge** function.

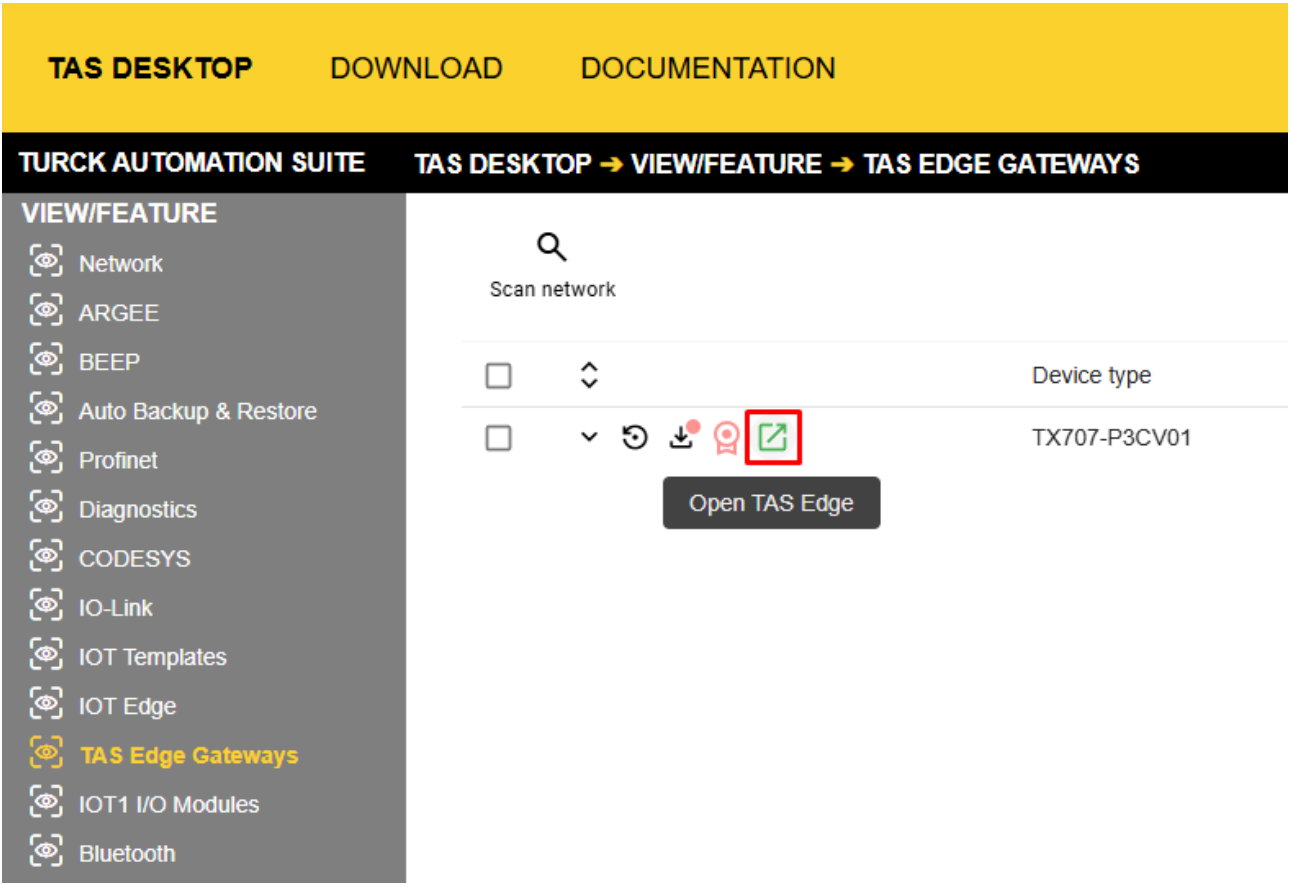


Fig. 6: Opening TAS Edge

6 Setting

The following section explains the configuration options and the TAS Edge Demo interface in TAS Desktop. The procedure in TAS Edge is identical to that in TAS Desktop.

6.1 Loading the IODD with TAS

To be able to use the IOT template functions for data forwarding, the IODD for the respective IO-Link device must be loaded.

- ▶ Open TAS Desktop.
- ▶ Open IOT Edge.
- ▶ Click **Scan network**.
- ▶ Click IO-Link view.

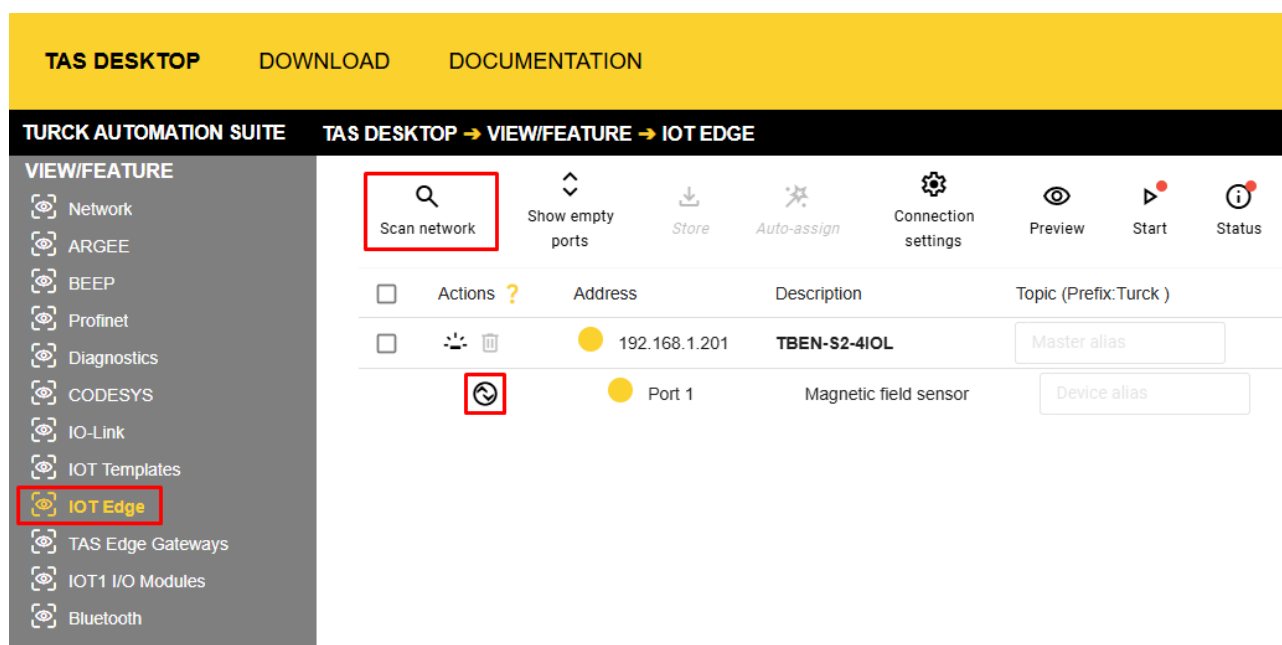


Fig. 7: Scan network

- ▶ Enter the password (the default password is "password"). TURCK recommends assigning a secure password after the initial login.
- ▶ Click Login.

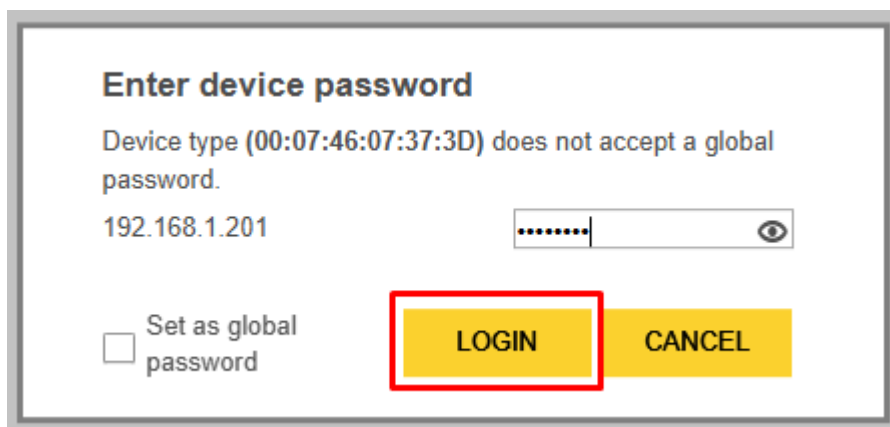


Fig. 8: Enter the password

- Select the port with the connected IO-Link device (in this case: Port 1).

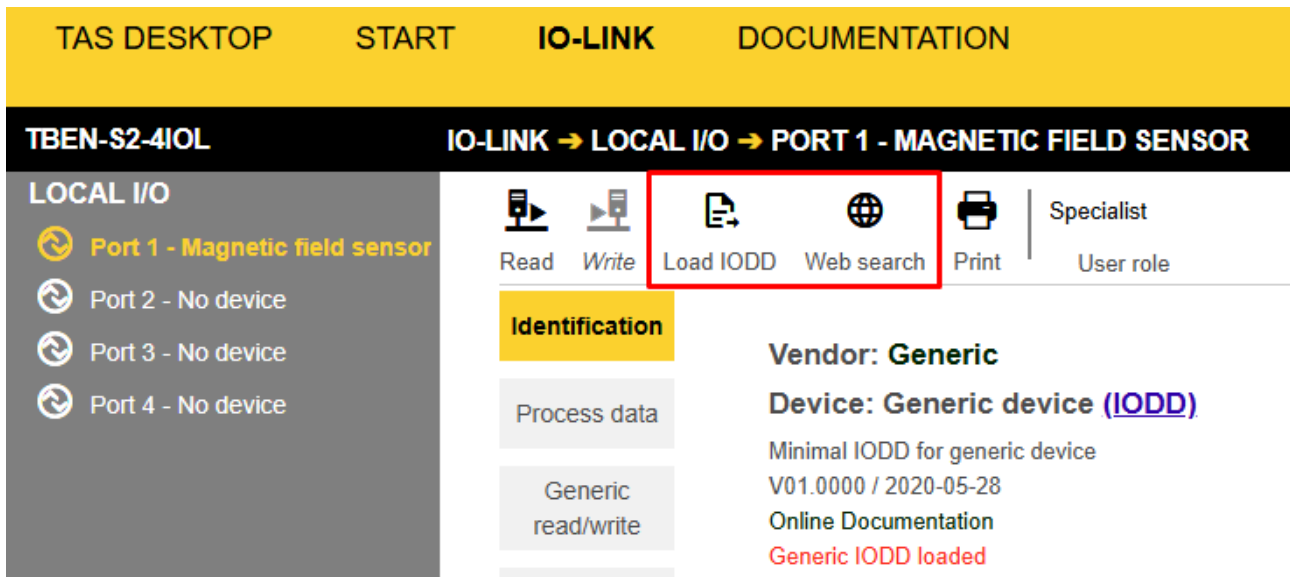


Fig. 9: Loading the IODD

- Load the IODD from a local file by clicking **Load IODD** or from the Internet by clicking **Web search**.
- ⇒ The IODD is loaded.

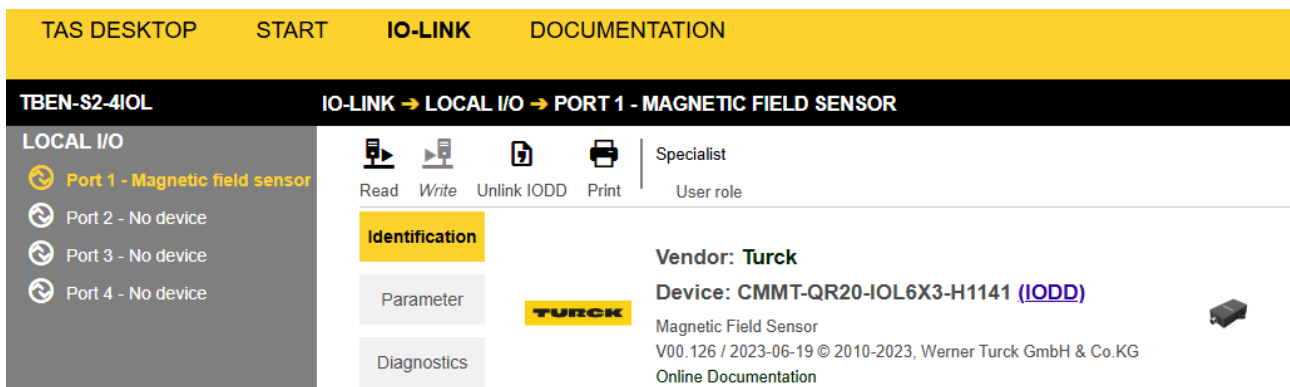


Fig. 10: IODD is loaded

6.2 Creating IOT templates

After the IODD is loaded, three new buttons appear in the **Parameter**, **Diagnostics**, **Observation**, and **Process data** tabs: **Add to IOT template** and **Save IOT template**.

Example: Creating an IOT template

- ▶ Click **Observation**.
- ▶ Click **Add to IOT template**.

This adds the **Observation** tab with all the values contained in the tab to the IOT template. The IOT template can be expanded by clicking **Add to IOT template** in the **Parameter**, **Diagnostics**, and **Process data** tabs.

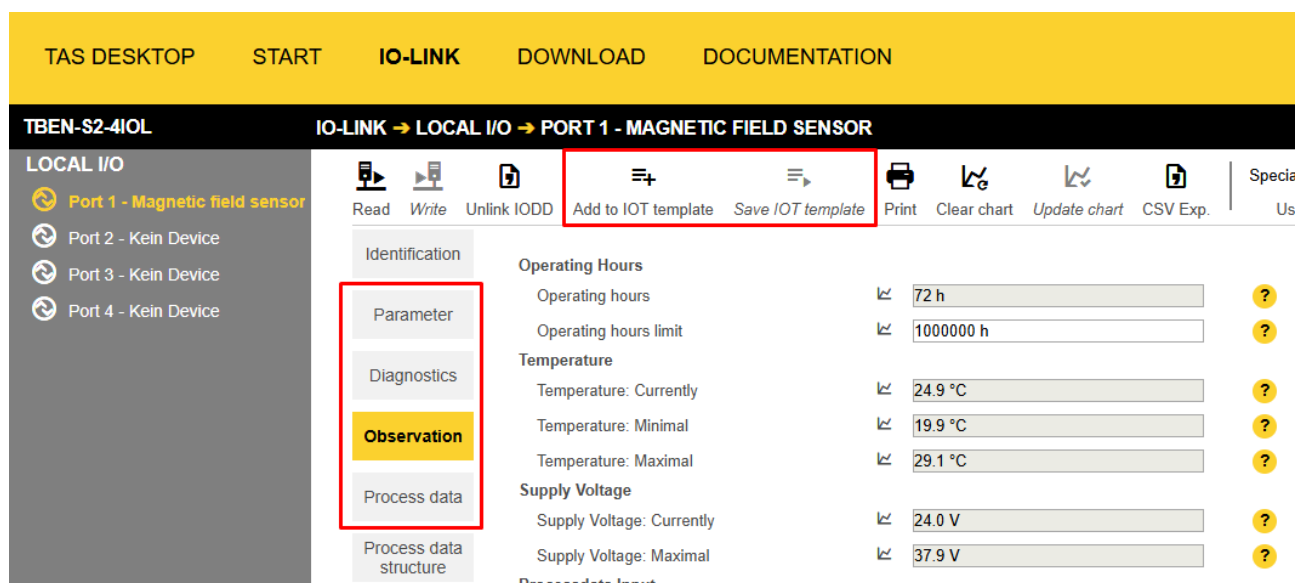


Fig. 11: Selecting data points

Deleting data points (optional)

- ▶ Click **Observation**.
- ▶ Click **Remove from IOT template**.

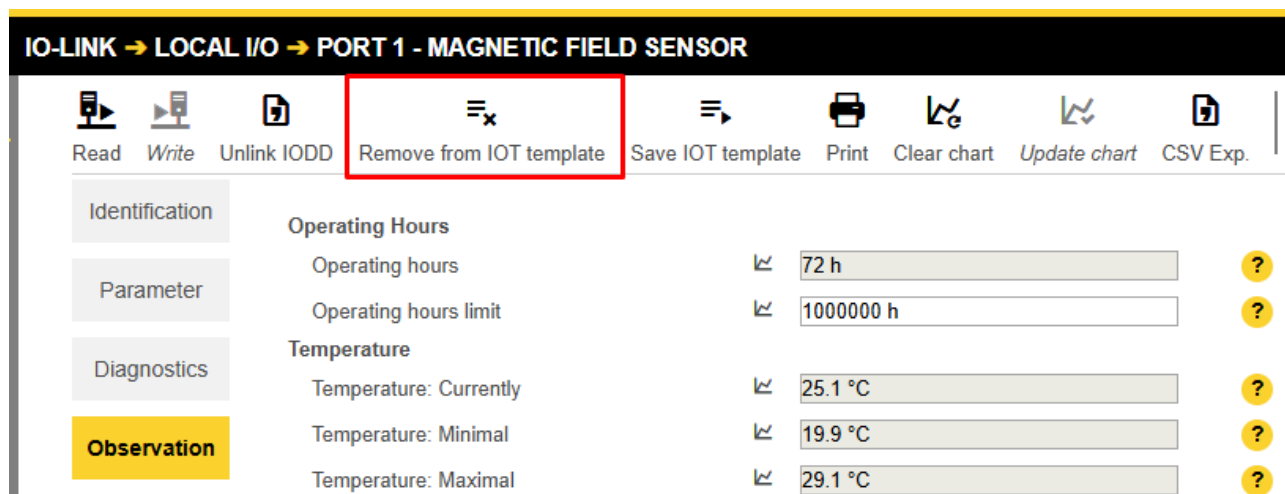


Fig. 12: Removing data points

Configuring IOT templates

- Once all desired data points have been selected, save the IOT template by clicking **Save IOT template**.
- ⇒ The **Edit IOT Template** view opens. In this view, the IOT template can be named, described, and configured.

Functions of the **Edit IOT Template** view:

- Configure data forwarding for the individual data points within an IOT template, as well as the frequency of data collection and forwarding
- Set the update interval of the values using the **Cycle multiplier** function
- Filter topics by content using the **Filter** icon

Magnetic field sensor

Parameter

Forwarding on

Forwarding off

Cycle multiplier

	Type	Variable	Forwarding	Datapoint Name/Topic postfix	Cycle multiplier	Delta
<input checked="" type="checkbox"/>	Parameter	SSC to physical output 1	On	SSC to physical output 1	20	1
<input type="checkbox"/>	Parameter	Polarity of switching output 1	Off	Polarity of switching output 1	20	1
<input type="checkbox"/>	Parameter	SSC to physical output 2	Off	SSC to physical output 2	20	1
<input type="checkbox"/>	Parameter	Polarity of switching output 2	Off	Polarity of switching output 2	20	1
<input type="checkbox"/>	Parameter	Dynamic Behaviour Filter: Dynamic Behaviour ON/OFF	Off	Dynamic Behaviour Filter: Dynamic Behaviour ON/OFF	20	1
<input type="checkbox"/>	Parameter	Damping switching output	Off	Damping switching output	20	1

✓ 1

Apply

Cancel

The topics contain characters that are not permitted (e.g., ..*+#\$), which are replaced by TAS depending on the target system.

Fig. 13: Managing data points

6.3 Adapting IOT templates (optional)

In the **IOT Templates** view, the template can be adapted or another IOT template can be set as the default for automatic device assignment.

To navigate to the **IOT Templates** tab:

- Click **TAS DESKTOP**.

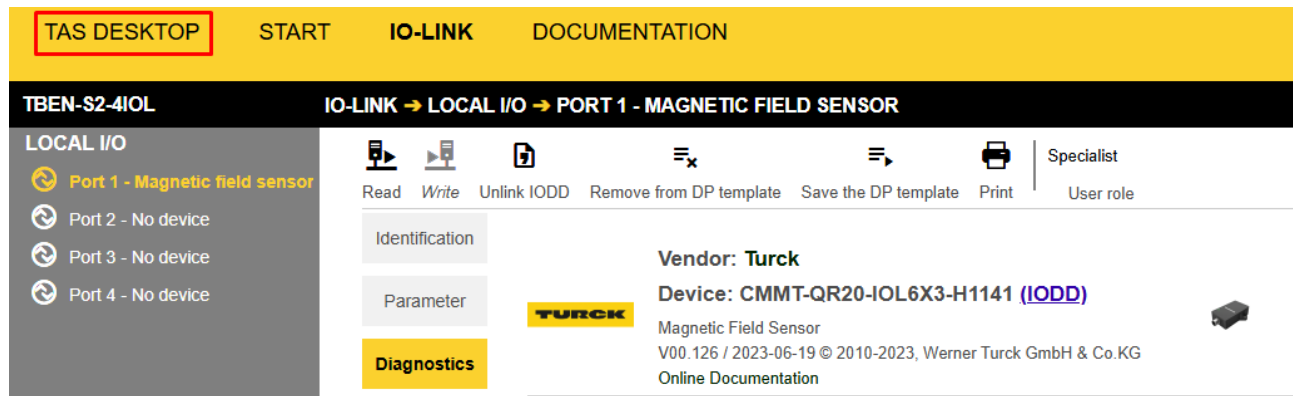


Fig. 14: Navigating back to TAS Desktop

- Click **IOT Templates**.

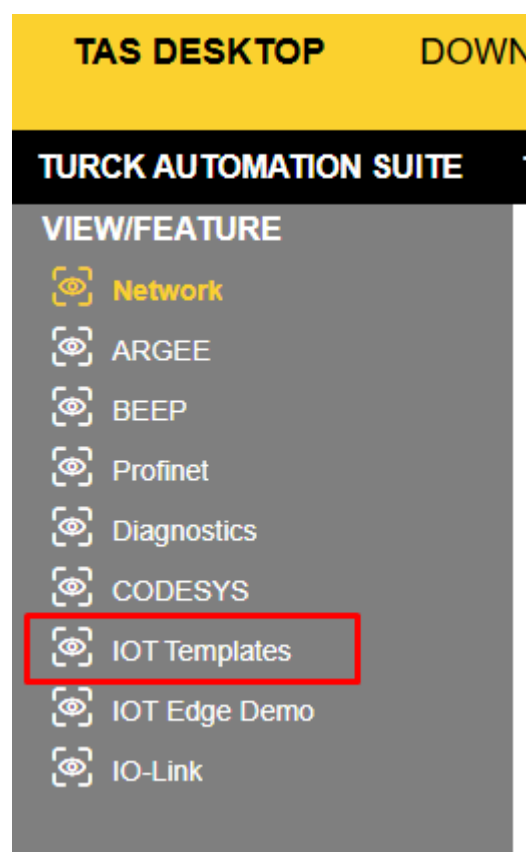


Fig. 15: Navigating to IOT Templates

Functions of the IOT Templates tab:

- **Star icon:** Set IOT templates as default (specifies that a particular template is used for automatic device assignment)
- Import and export functions for IOT templates
- Switch data forwarding for the IOT template on and off

TAS DESKTOP DOWNLOAD DOCUMENTATION **TURCK** Your Global Automation Partner

TURCK AUTOMATION SUITE TAS DESKTOP → VIEW/FEATURE → IOT TEMPLATES

VIEW/FEATURE

- Network
- ARGEE
- BEEP
- Profinet
- Diagnostics
- CODESYS
- IOT Templates**
- IOT Edge Demo
- IO-Link
- IOT1 I/O Modules
- Bluetooth

Update Delete Import Export Help

Filter

<input type="checkbox"/>	Actions	Type	Name	Default for IOT Edge/IOT1	Description	Device name	Manufacturer
CMMT-QR20-IOL6X3-H1141							
<input type="checkbox"/>		IO-Link	Magnetic field sensor-default	★ Off	Description of the template	CMMT-QR20-IOL6X3-H1141	Turck
<input type="checkbox"/>		IO-Link	Prozessdaten	★ Off	Description of the template	CMMT-QR20-IOL6X3-H1141	Turck

Fig. 16: IOT templates

Edit IOT Template

Magnetic field sensor

Parameter

Forwarding on Forwarding off Cycle multiplier

<input checked="" type="checkbox"/>	Type	Variable	Forwarding	Datapoint Name/Topic postfix	Cycle multiplier	Delta
<input checked="" type="checkbox"/>	Parameter	SSC to physical output 1	On	SSC to physical output 1	20	1
<input type="checkbox"/>	Parameter	Polarity of switching output 1	Off	Polarity of switching output 1	20	1
<input type="checkbox"/>	Parameter	SSC to physical output 2	Off	SSC to physical output 2	20	1
<input type="checkbox"/>	Parameter	Polarity of switching output 2	Off	Polarity of switching output 2	20	1
<input type="checkbox"/>	Parameter	Dynamic Behaviour Filter: Dynamic Behaviour ON/OFF	Off	Dynamic Behaviour Filter: Dynamic Behaviour ON/OFF	20	1
<input type="checkbox"/>	Parameter	Damping switching output	Off	Damping switching output	20	1

✓ 1

The topics contain characters that are not permitted (e.g., ., *, +, #, \$), which are replaced by TAS depending on the target system.

Apply Cancel

86

Fig. 17: Editing an IOT template

6.4 Configuring connection settings in IOT Edge

In the **Connection settings** dialog, you can configure the connection settings to the target system and start collecting and forwarding data.

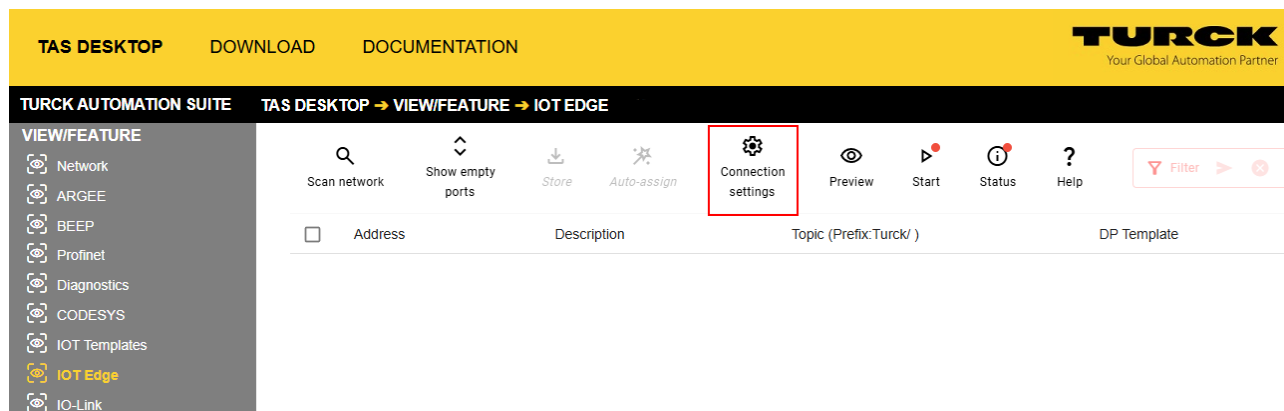


Fig. 18: IOT Edge

Assigning IOT templates

The **IOT Edge** menu can be used for (automatic) assignment of the IOT templates to the IO-Link devices (ports on the IO-Link master).

Prerequisites:

- An IO-Link master with an IO-Link device is connected to the PC
- An IOT template has been created for the IO-Link device

Automatically assigning IOT templates

- ▶ Select device.
- ▶ Click **Auto-assign**.
- ▶ Set options.
- ▶ Click **Apply**.

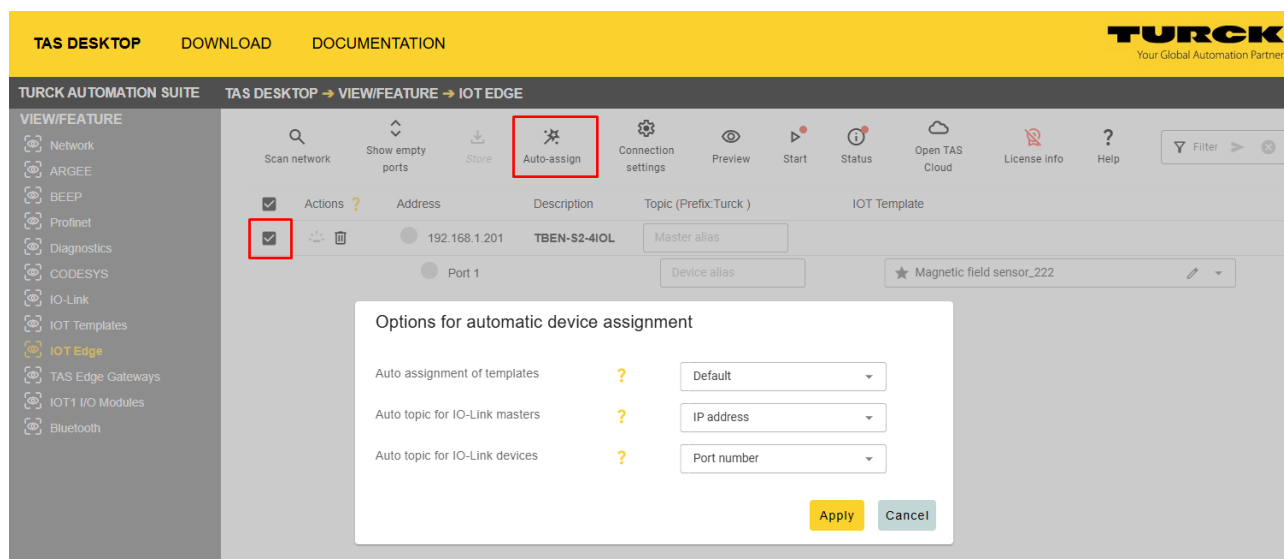
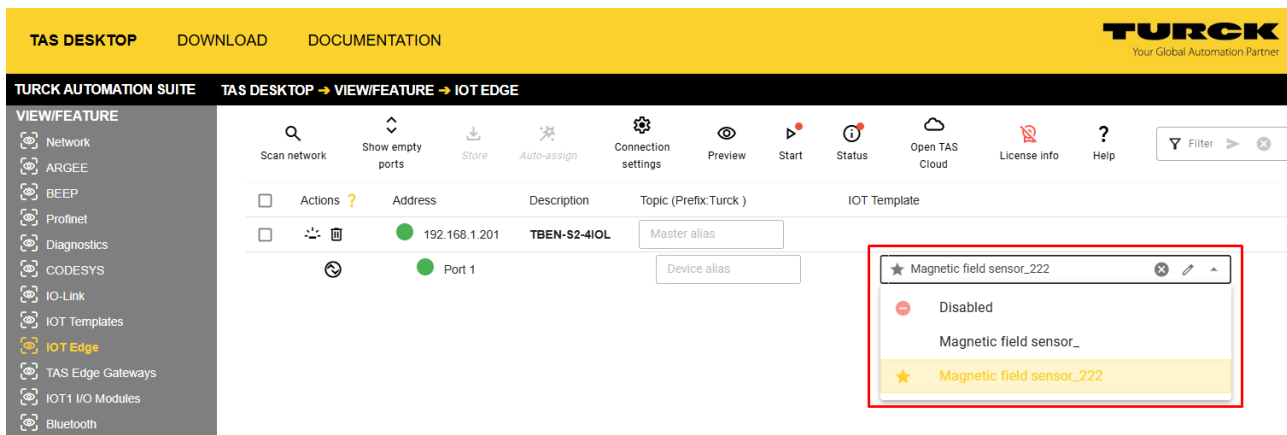


Fig. 19: Automatic device assignment

Manually assigning IOT templates

- ▶ Click the drop-down menu.
- ▶ Click the desired IOT template for automatic device assignment.



Checking the connection

- ▶ Click **Preview** to view the complete MQTT topics.
- ▶ Click **OK**.
- ▶ Click **Start** to start the TAS IOT Edge service for data forwarding.
- ▶ Click **Preview** to view the complete MQTT topics and the collected data.

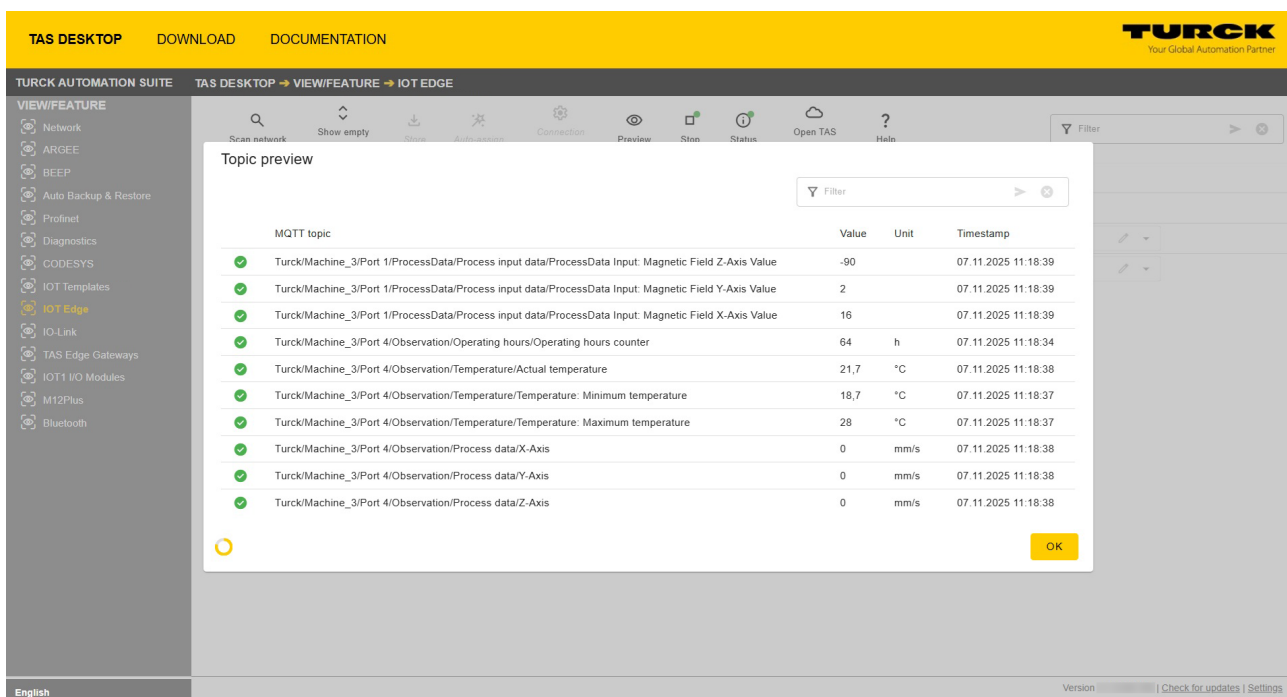


Fig. 20: IOT Edge preview



NOTE

Depending on the selected target system (TAS Cloud or MQTT broker), TAS automatically replaces special characters in the topics (e.g.: .,*+##\$) that are not supported. The special characters are then displayed in the topic preview.

6.5 User management

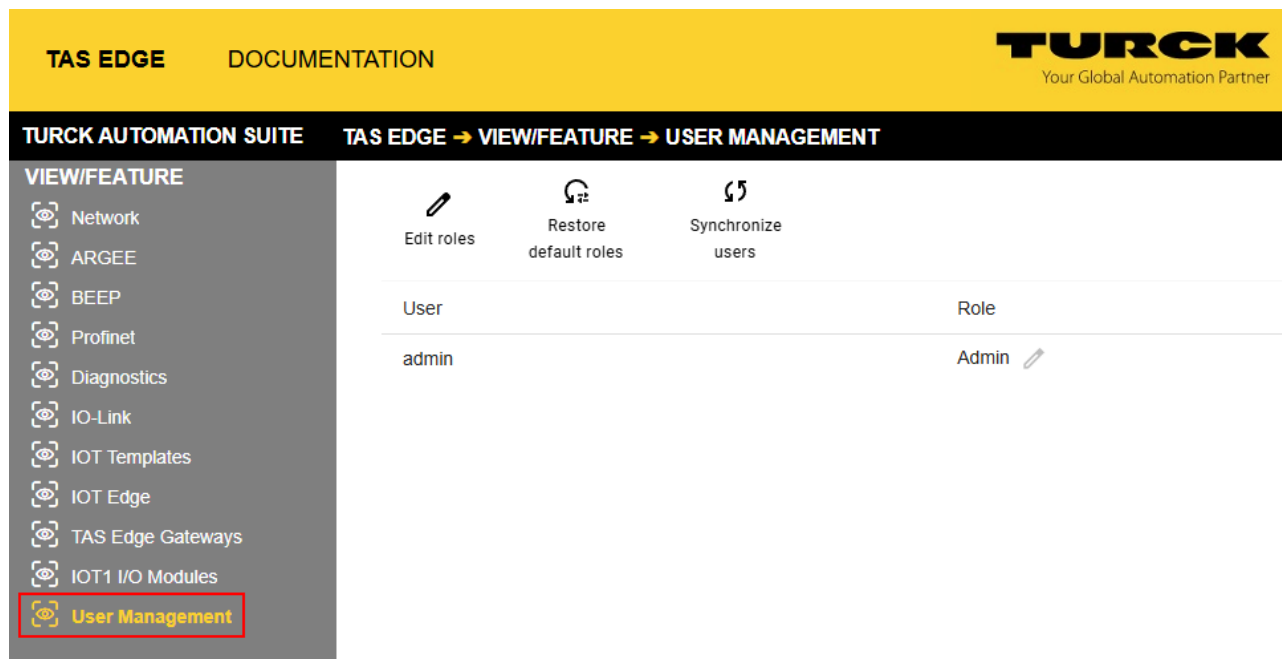


Fig. 21: User management

User Management can be used to create, delete, and manage user roles with various access rights for TAS Edge. By configuring the individual user roles, each user receives personalized read/write permissions and a view in TAS Edge that is compiled for their user role. In addition to the preconfigured default roles in TAS Edge, other roles can be created and configured.

The TURCK HMI (TX) provides a user management feature that is used by TAS Edge. In the user management view, roles can be assigned to the users created in the TURCK HMI (TX) for the functions in TAS Edge.

Stored device passwords can only be used to execute actions on field devices by users who have permissions to perform device actions. The restrictions are determined exclusively by the assigned permissions.

Default roles in TAS Edge:

Role	Description
Admin	Typically also the system administrator
IT Manager	Configuration of data forwarding to IT
Operator	Configuration of the field bus devices for data capture
User	Restricted permissions
Guest	Users not yet assigned, very restricted access

6.5.1 Editing user roles

All user roles that have been created can be viewed and edited in the **Edit roles** menu.

The **Admin** and **Guest** roles cannot be deleted.

Defining user permissions

- ▶ Configure the permissions of the user role by selecting or deselecting the required permissions.
- ▶ Then confirm by clicking **SAVE**.

Deleting a user role











- ▶ Click the **Delete** icon for the respective role.
- ▶ Click **SAVE**.

Changing the description of a user role

- ▶ Click **Edit role description** (pencil icon).
- ▶ Click **SAVE**.

Edit roles

Delete, add and edit roles

	Admin ?	Guest ?	IT Manager ?	Operator ?	User ?	+
Actions	 	 	 	 	 	
System Administration ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
User Management ?	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input type="checkbox"/> W <input type="checkbox"/>	R <input type="checkbox"/> W <input type="checkbox"/>	R <input type="checkbox"/> W <input type="checkbox"/>	R <input type="checkbox"/> W <input type="checkbox"/>	
TAS Edge Settings and Licensing ?	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input type="checkbox"/>	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input type="checkbox"/>	
Backup/Restore ?	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input type="checkbox"/>	R <input checked="" type="checkbox"/> W <input type="checkbox"/>	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input type="checkbox"/>	
IOT Connection Settings ?	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input type="checkbox"/>	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input type="checkbox"/>	R <input checked="" type="checkbox"/> W <input type="checkbox"/>	
IOT Values and Status ?	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input type="checkbox"/>	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input type="checkbox"/>	
IOT Configuration ?	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input type="checkbox"/>	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input type="checkbox"/>	
Fieldbus Device Scan ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Fieldbus Device Scan Settings ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

SAVE
CANCEL

Creating a user role

- ▶ Click **Add new role**.
- ▶ Enter the name of the role.
- ▶ Enter role description.
- ▶ Click **CREATE**.

Edit roles

Delete, add and edit roles

The screenshot displays the 'Edit roles' interface. At the top, there is a table with columns for roles: Admin, Guest, IT Manager, Operator, and User. A '+' button is highlighted in the top right corner of this table, which triggers the 'Create new role' modal. The modal contains two input fields: 'Role name:' and 'Role description:'. Below these fields are 'CREATE' and 'CANCEL' buttons. The background table lists various actions and their permissions for each role. The 'Fieldbus Device Scan' action is highlighted in blue. At the bottom right of the interface, there are 'SAVE' and 'CANCEL' buttons.

	Admin ?	Guest ?	IT Manager ?	Operator ?	User ?
Actions					
System Administration ?	<input checked="" type="checkbox"/>				
User Management ?	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>				
TAS Edge Settings and Licensing ?	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>				
Backup/Restore ?	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>				
IOT Connection Settings ?	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>
IOT Values and Status ?	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>
IOT Configuration ?	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>	R <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/>
Fieldbus Device Scan ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

6.6 Activating a license

In demo mode, data forwarding can be activated for a maximum of 12 hours per day. A TAS Edge license is required for continuous operation. Each license is valid for one device (e.g. TX700). You can obtain a license from your TURCK sales contact.

Available licenses:

- **TAS-EDGE-IOT-ON-DEVICE** for compatible TURCK devices, such as TURCK HMIs in the TX product series
- **TAS-EDGE-IOT-ON-SERVER** for running on a Linux or Windows server and on a PC



NOTE

Activating a license for a device will permanently consume the license. The operation cannot be undone. If you have any questions, please contact TURCK.

The license can be activated directly on the TURCK HMI device (TX) or with a PC via TAS Desktop.

Activating a license with a PC via TAS Desktop

Prerequisites:

- You have received a TAS license ID from your TURCK sales contact.
- The PC on which the license activation is taking place is connected to the internet.
- The device for which the license is to be activated is connected to the PC.

An installation of the CodeMeter Runtime is required to license TURCK devices in TAS Edge. The CodeMeter Runtime can be downloaded in TAS Desktop.

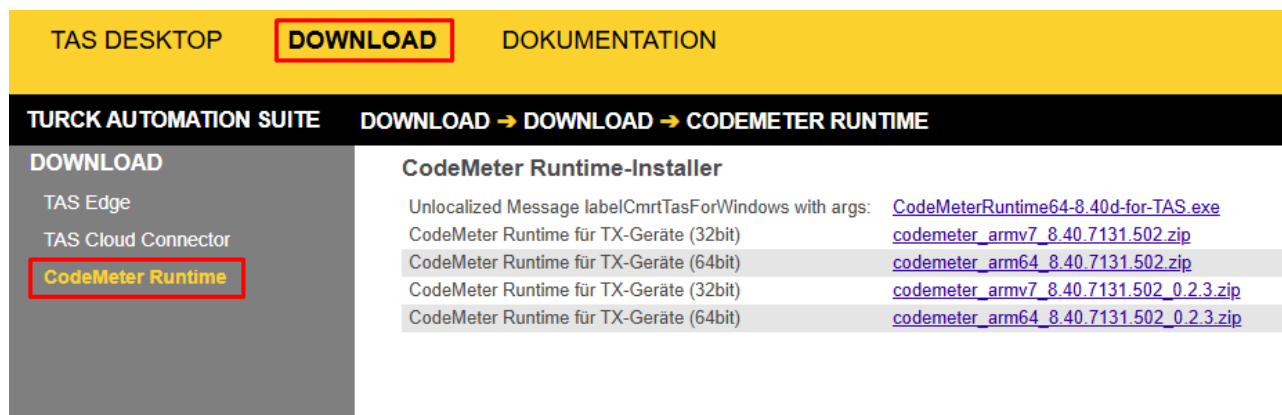


Fig. 22: CodeMeter Runtime in TAS Desktop

- Open the **IOT Edge** view.
- Click **License info**.

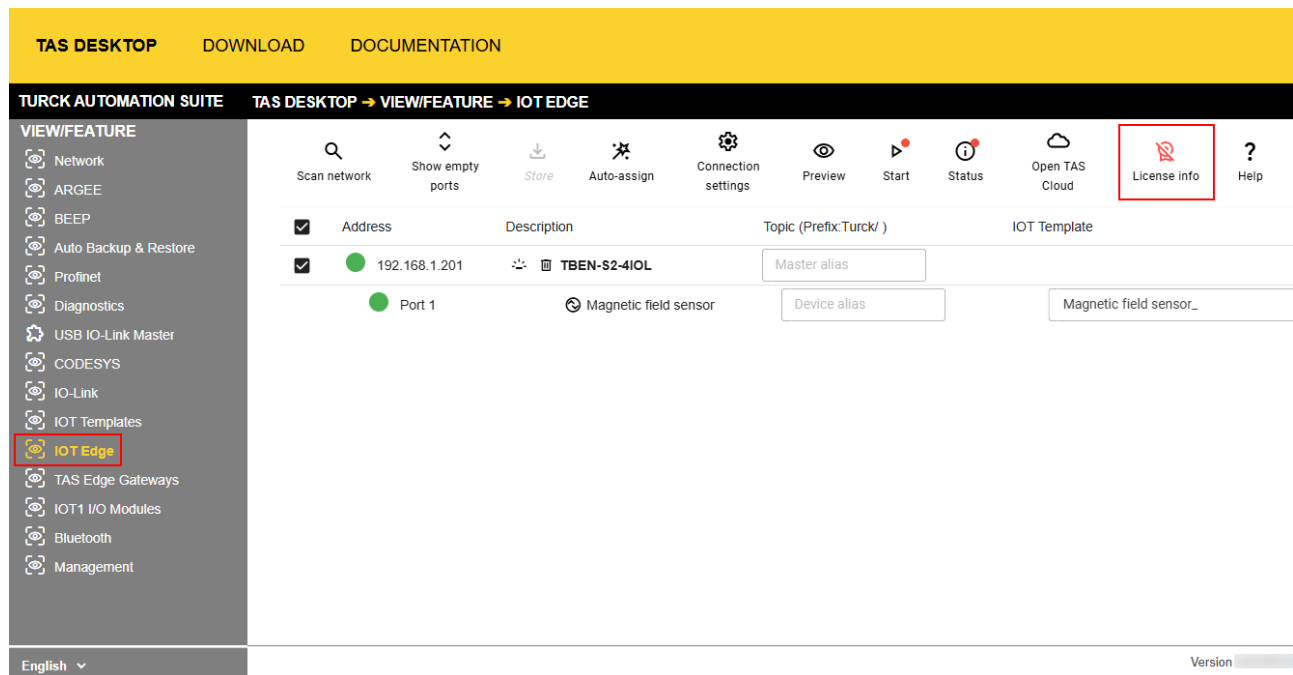


Fig. 23: IOT Edge license activation

- Enter the TAS License ID.
- Click **Show license**.

The available licenses are then displayed (this action does not consume a license).

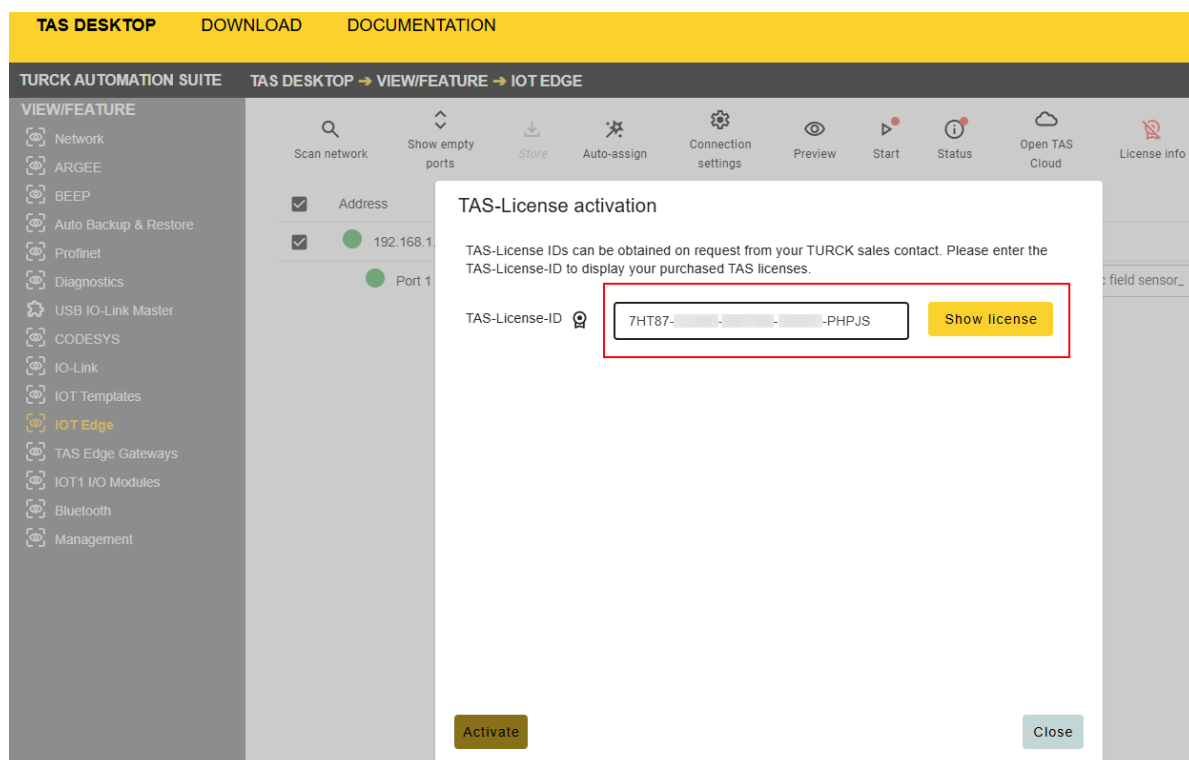


Fig. 24: Entering the TAS license ID

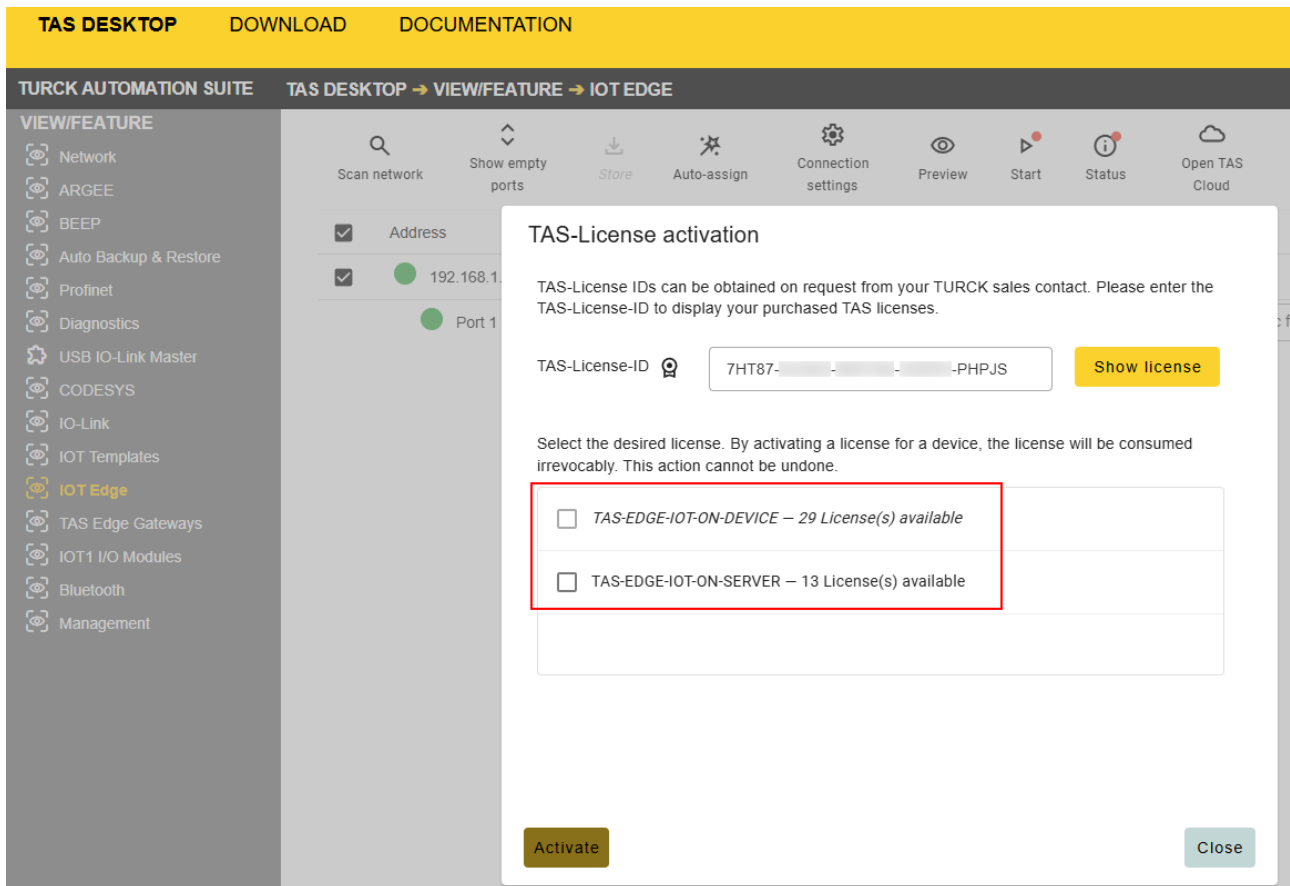


Fig. 25: Available licenses

- ▶ Select the desired license.
- ▶ Click **Activate**.
- ⇒ The license is activated.

Activating a license with a TURCK HMI (TX) via TAS Desktop

Prerequisites:

- You have received a TAS license ID from your TURCK sales contact.
 - The CodeMeter Runtime for TX devices is installed on the device (see p. [► 8]).
 - The PC on which the license activation is taking place is connected to the internet.
 - The TURCK HMI (TX) is connected to the PC and the power supply.
- ▶ Open the **TAS Edge Gateways** view.
 - ▶ Click **Scan network**.
 - ▶ Click **TAS-License is not installed**.
 - ▶ Enter user name and password.

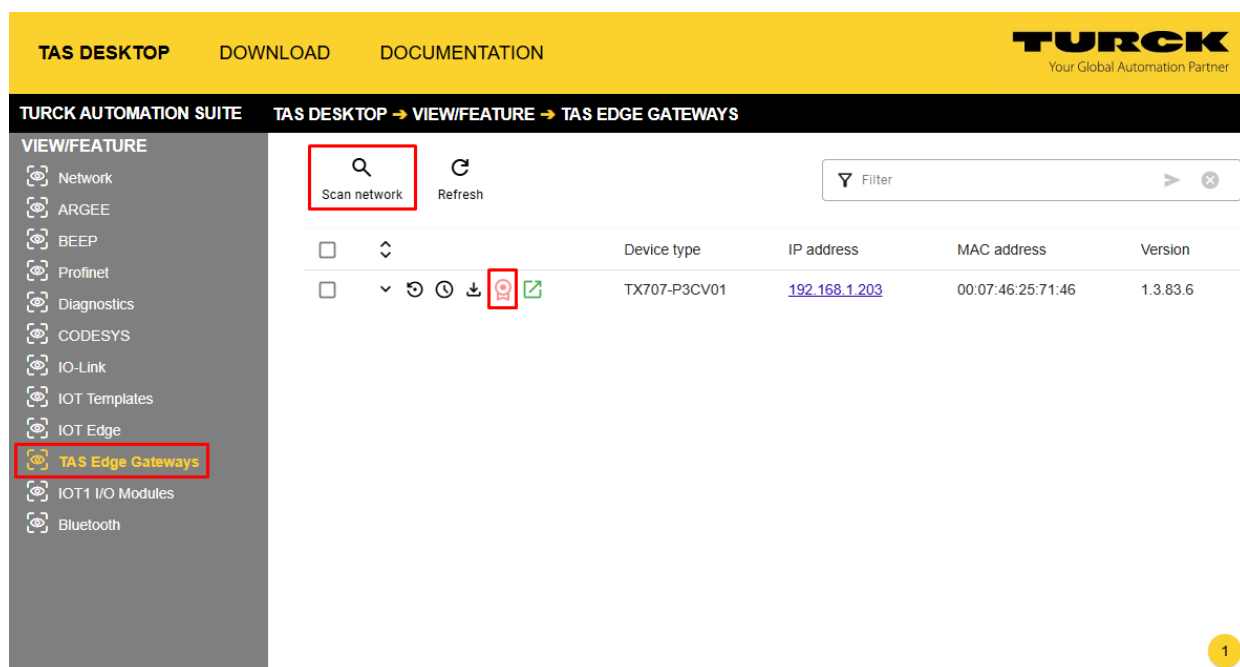


Fig. 26: Activating a license on a TURCK HMI

- ▶ Enter the TAS License ID.
- ▶ Click **Show license**.

The available licenses are then displayed (this action does not consume a license).

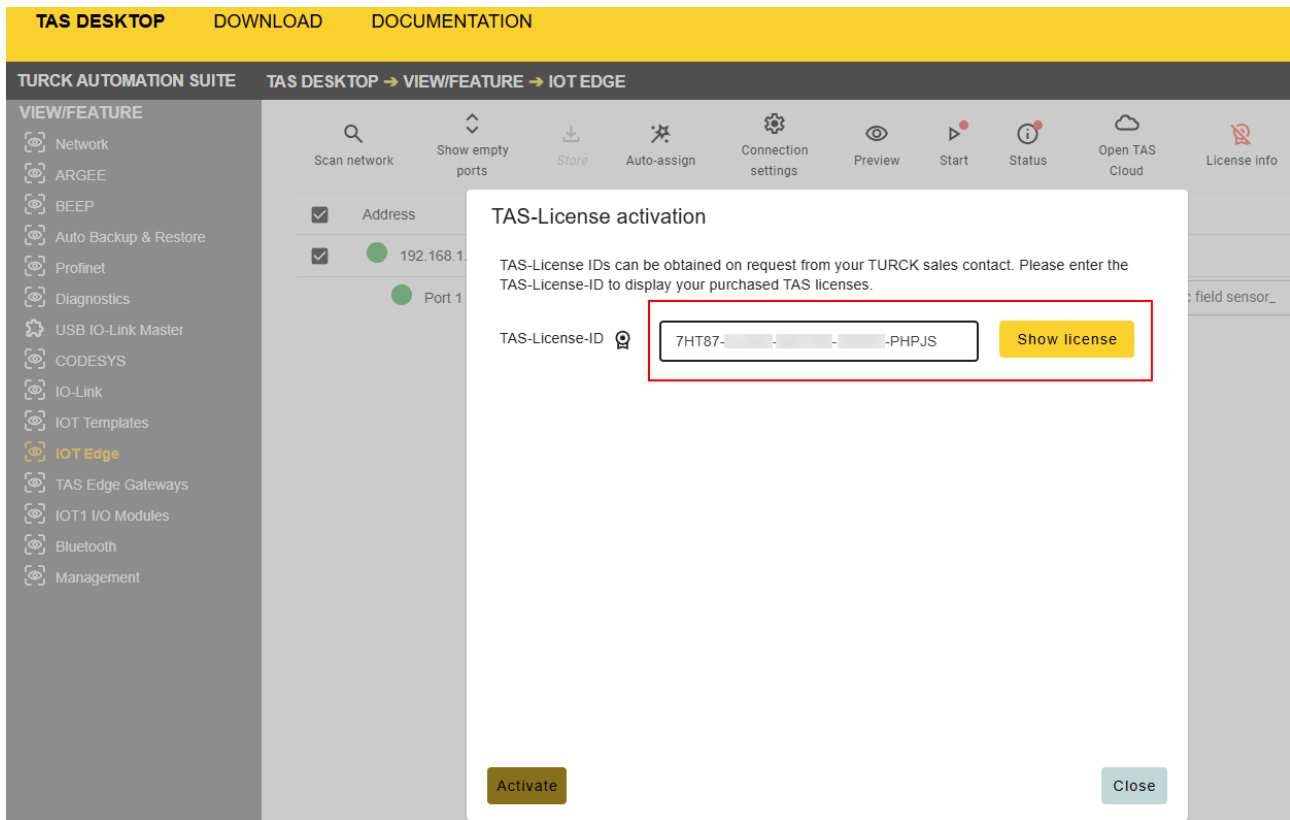


Fig. 27: Entering the TAS license ID

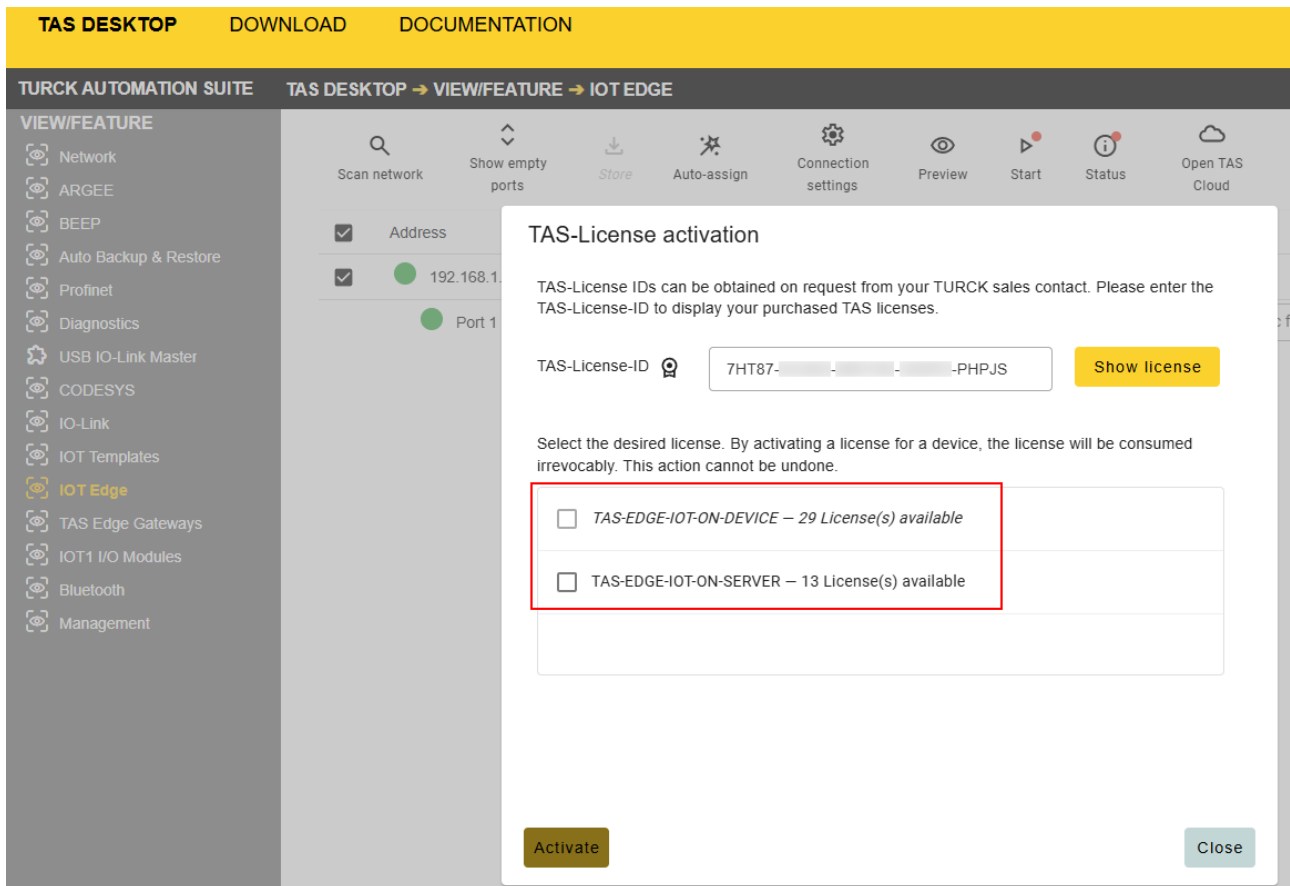


Fig. 28: Available licenses

- ▶ Select the desired license.
- ▶ Click **Activate**.
- ⇒ The license is activated.

7 Operation

7.1 Displaying data from the MQTT broker

The selected data points (e.g.: process and observation data) can then be subscribed to by an MQTT Broker by setting up a connection in TAS Edge.

In the following example, the data from the CMVT-QR20-IOLX3-0.3-RS4 is displayed in the MQTT Explorer.

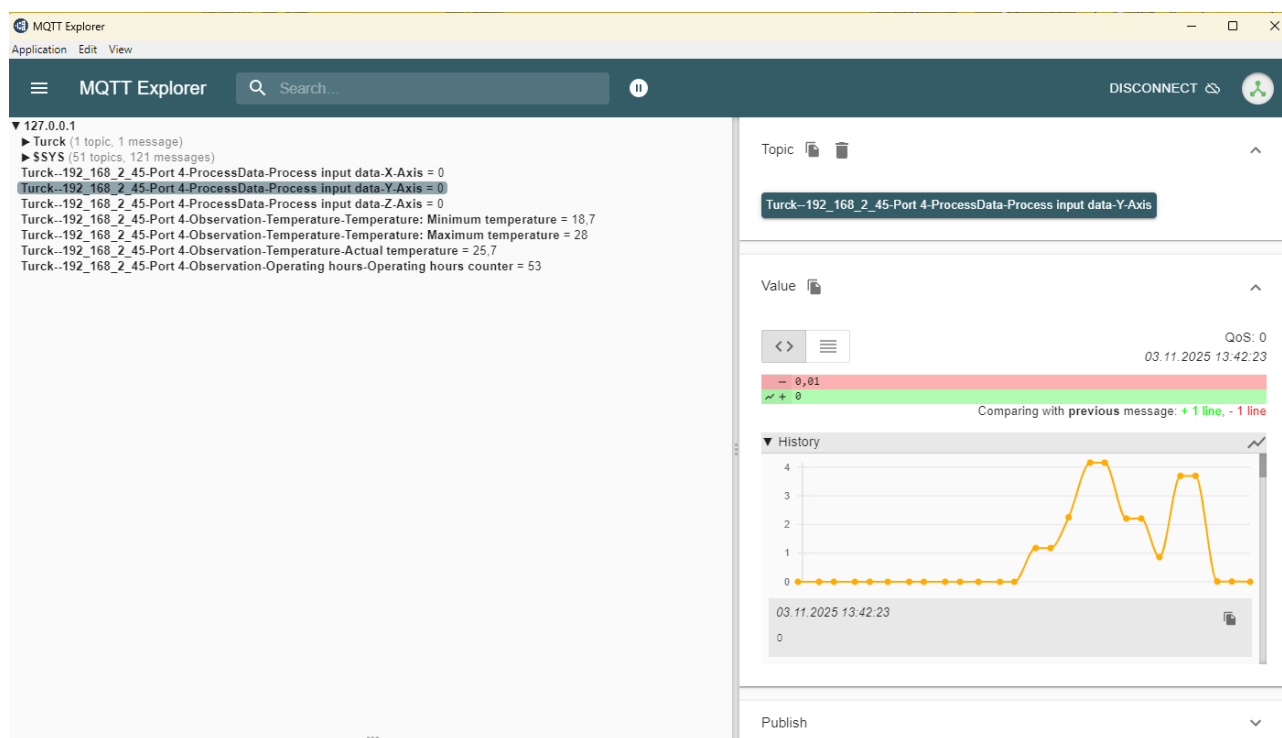


Fig. 29: MQTT Explorer

8 TURCK branches — contact data

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Austria	Turck GmbH Graumannsgasse 7/A5-1, A-1150 Vienna www.turck.at
Belgium	Turck Multiprox N. V. Lion d'Orweg 12, B-9300 Aalst www.multiprox.be
Brazil	Turck do Brasil Automação Ltda. Rua Anjo Custódio Nr. 42, Jardim Anália Franco, CEP 03358-040 São Paulo www.turck.com.br
Canada	Turck Canada Inc. 140 Duffield Drive, CDN-Markham, Ontario L6G 1B5 www.turck.ca
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