Getting started

Information Note: Getting started

“Configurability enables flexibility and differentiation”

1. Introduction

This Getting started guide covers the following topics to help you start using software:

- The TCI system
- The TCI software
- Working with the USB2DALI interface
- Working with NFC interfaces

For detailed information, consult the TCI Workflow User manual.

2. Table of contents

Contents

1. Introduction 1
2. Table of contents 2
3. TCI software system 3
3.1 USB2DALI interface 3
3.2 3
3.3 NFC interface 5
3.4 5
4. TCI software 5
4.1 Download 5
4.2 Minimum system requirements 5
4.3 Installing 6
4.4 Activation 6
5. Working with USB2DALI interface 7
5.1 Connecting the USB2DALI interface 7
5.2 Scanning and commissioning a DALI network 9
5.3 Selecting devices for communication 9
5.3.1 DALI groups 10
6. 10
6.1 10
6.2 11
6.3 11
7. Working with NFC interface(s) 12
7.1 Connecting the NFC interface 12
7.2 Scanning a NFC device 12
7.3 Selecting devices for communication 13
7.3.1 Auto read 13
8. 14
9. Disconnected interface 14
10. Configuring device features 15
10.1 Reading and writing device features 15

3. TCI Software system

With our software, you can configure all features that are supported by a specific TCI. A feature typically belongs to one or two device families, but this does not mean that every device from a device family does support all features.
TCI software only works in combination with the 127105 USB2DALI interface and 127095A or 127101 NFC interface.

3.1 USB2DALI interface

The TCI system for DALI devices consists of the following components:

- 127105 USB2DALI interface, the interface between the PC and the DALI devices.

- USB cable, to connect the PC with the USB2DALI interface.

or

- TCI software, to be installed on the PC or laptop.
  See next chapter.
- DALI is supported by TCI Engineering and by TCI Workflow

TBD

3.3 USB22 NFC interface

The TCI system for NFC devices consists of the following components:

- 127095A, 127101 NFC interface are USB devices which interface between the PC and NFC devices

127095A

127101

- USB-A to USB-B cable to connect the PC with the NFC interface.
- TCI software, to be installed on the PC or laptop. See next chapter.
- NFC is supported by TCI Engineering and by TCI Workflow

4. TCI software

4.1 Download

TCI software can be downloaded directly on our website https://www.tci.it/

This zip-file contains the following files: •The TCI software installation file
•The TCI Workflow installation file
•The Getting started document
•The User manual
•The readme file

4.2 Minimum system requirements

Before installing, make sure the PC or laptop complies with the minimum system requirements for using the software:

- PC or laptop with Microsoft Windows 8, 8.1,10 and 11.
- One or multiple USB 2.0 port(s):
  - Two free USB 2.0 ports for use with USB2DALI interface
  -
  - One free USB 2.0 port for use with NFC interface

  -

4.3 Installing

The software installation file is the installer for the full version of TCI software. The TCI Workflow installation file is the version of software which is meant to be used in a production environment.

To install the software, launch the installer for the desired version and follow the instructions on your screen.
NOTE: Make sure that all interfaces are disconnected before installing.

The installation wizard will guide you through the process of installing the software and will ask you where the software needs to be installed. At the end, it will give you the option to immediately start the software.

5. Working with the 127105 USB2DALI interface

5.1 Connecting the USB2DALI interface

Before launching, make sure the USB2DALI interface is connected. First connect both USB plugs (USB-A) of the provided cable into your PC's USB ports. When only one USB port is available, connect the black USB plug.

or

2 x USB-A plug

Second, connect the other end of the cable (mini-USB) to the USB2DALI interface.

or

mini- USB plug

Connect the USB2DALI interface to a (network of) DALI device(s), using the double DALI connectors (WAGO 250 connectors). The double DALI connectors allow a wiring scheme in which the USB2DALI interface is wired in a sequence together with other DALI devices (daisy chain).

Status LEDs Double DALI connectors

Finally make sure the DALI devices are connected to the mains.

The status LEDs have the following meaning:

Green led: is on when the USB2DALI interface is powered.
Red led: is on when the DALI power supply is on.
Orange led: blinks when there is DALI communication.

When software is started you need to make sure the USB2DALI interface is used. This can be done by going to the Tools => Connection settings….

In the pop-up window select DALI; select the port to which you connected the USB2DALI interface and click OK.

Notice! The unique id of the interface is shown at the port selection. This, to be able to identify which interface is used by which software instance (when configuring devices in parallel using multiple instances of software).

5.2 Scanning and commissioning a DALI network

When starting the software, the connected DALI devices to the USB2DALI interface are not automatically identified. There are two buttons in the Network tab on the left-hand side of the application window: Scan network and Commission.

- Scan network: all devices are scanned for their short addresses. This procedure does not change any short addresses or other properties of the connected devices. In order to identify a device, a short address is needed; devices without a short address are being assigned with one. When two or more devices have the same short address, a warning is given.
- Commission: all devices are given a new short address, starting at 0. Be aware that existing short addresses are erased and new short addresses are re-assigned to all devices connected. This procedure ensures that all devices have a short address and that there are no duplicate short addresses.

After commissioning or scanning the network, the list of identified devices is shown in the Network tab.

5.3 Selecting devices for communication

After having commissioned or scanned the network, the Network tab shows all devices present in the DALI network. By clicking on a device you will make that particular device the active one, meaning that all commands will be sent to this device only, and will be ignored by all other devices.

Besides selecting a single device for communication, it is also possible to communicate with multiple devices. The options are:

- Select All devices. All commands will now be sent as broadcast commands. Note that unidentified DALI devices will also respond to commands.
- Select User-defined groups. All commands will now be sent to devices that belong to a user-defined group.
- Expand or create User-defined groups and select the desired user-defined group. All commands will now be sent to devices that belong to this specific user-defined group.

5.3.1 DALI groups

When all the drivers in the DALI network are known, it is possible to work with DALI groups. Select the Groups tab and press Scan groups. After having scanned the network, the Groups tab shows all the DALI groups and the found devices for every group.

By clicking on a device you will make that particular device the active one, meaning that all actions will be performed on this device only, and will be ignored by all other devices. Besides selecting a single device for communication, it is also possible to communicate with a group of devices. Select Group n. All commands will now be sent to devices that belong to this specific DALI group.

TBD

7. Working with the NFC interface(s)

7.1 Connecting the NFC interface

Before launching, make sure the NFC interface is connected.

NOTE: If a device is to be powered during configuring, make sure it is connected to the mains ground. Without the ground connection, reliable communication may not be achieved.

When software is started you need to make sure the NFC interface is used. This can be done by going to the Tools => Connection settings….

In the pop-up window select NFC, select the interface, select the reader (in case of a FEIG interface) and click OK.

Notice! The unique id of the interface is shown at the reader selection. This, to be able to identify which interface is used by which software instance (when configuring devices in parallel using multiple instances of software).

7.2 Scanning a NFC device

After selecting the NFC interface, a NFC device near the interface is not automatically known by software.

To get the device press Scan for device; touch and hold the NFC interface close to the device until the scan has completed, if needed, a pop-up will appear indicating the device and the NFC interface must touch. The scanned device will be shown in the Network panel.

7.3 Selecting devices for communication

After having scanned the NFC device, the Network tab shows the device.

By clicking on a device you will make that particular device the active one, meaning that all actions will be performed on this device and will be ignored by all other devices.

7.3.1 Auto read

After a device gets selected all features are shown on the Features tab and auto read gets activated. Auto read automatically start reading the configuration of all features. Progress is shown.

Note! If the NFC interface is not close to the device, Auto read will not work.

9. Disconnected interface

If the USB2DALI, or NFC interface becomes disconnected during use, software must be restarted. After closing software reconnect the interface via its USB plug. Restart and, as before, scan the device/network and resume communication.

10. Configuring device features

In the main application window, click the Device features tab.

The content of this tab depends on the device that has been selected in the Network tab. If a device does not support any feature, a message will be displayed. If a group of devices is selected, no features will be shown since it is not possible to configure features for multiple devices at once[1].

Upon selecting a device in the Network tab, the Device features tab displays the features that are supported by this device. After selecting another device, the Device features tab is updated to show only the features supported by the newly selected device. You will have to click the Read button to see the exact configuration, except when using the NFC interface. See 7.3.1.

Use the various graphs, sliders and input boxes to configure the various feature parameters. For detailed information on device features, please be referred to TCI User manual.

10.1 Reading and writing device features

The Device features tab can do three things: show the default values used by software, display the feature configuration currently stored in a device and write a new feature configuration to the device.
To display the current feature configuration stored in a device, select the device in the Network tab. The device features of the selected device are shown at the Device features tab. Click the Read button in the toolbar.

A dialog window pops up in which you can make a selection of device features to be read. Make a selection and click Read. After a few seconds the current feature configuration is shown on the Device features tab.

[1] To configure device features for multiple devices you can use virtual devices. Please be referred to the TCI User manual for details.

The feature configuration can now be adjusted manually.

After adjusting the values, click the Write button in the toolbar.

A dialog window pops up in which you can make a selection of device features to be written. Make a selection and click Write. After a few seconds the status bar will indicate that the data was successfully written.

To save the current feature configuration to a file, click the Save icon on the toolbar or select File => Save as.

Enter a file name and a location and click Save.