



“Configurability
enables flexibility
and differentiation”

1 Introduction

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

- The MultiOne system
- The MultiOne software
- Working with the USB2DALI interface
- Working with the USB2ZigBee interface
- Working with SimpleSet[®] interfaces
- Working with Art-Net

For detailed information, consult the MultiOne or the MultiOne Workflow User manual.

2 Table of contents

1	Introduction.....	2
3	The MultiOne system.....	5
3.1	DALI.....	5
3.2	ZigBee	6
3.3	SimpleSet.....	6
3.4	Art-Net.....	7
4	MultiOne software	8
4.1	Download.....	8
4.2	Minimum system requirements.....	8
4.3	Installing.....	8
4.4	Activation	9
5	Working with the Philips LCN8600 MultiOne interface USB2DALI	10
5.1	Connecting the USB2DALI interface	10
5.2	Scanning and commissioning a DALI network.....	12
5.3	Selecting devices for communication	12
5.3.1	DALI groups.....	13
6	Working with the Philips LCN8650 MultiOne interface USB2ZigBee	14
6.1	Connecting the USB2ZigBee interface	14
6.2	Scanning a ZigBee area	14
6.3	Selecting devices for communication	14
7	Working with the Philips LCN9600, LCN9610, LCN9620 and LCN9630 MultiOne interface SimpleSet®	16
7.1	Connecting the SimpleSet interface.....	16
7.2	Scanning a SimpleSet device.....	16
7.3	Selecting devices for communication	17
7.3.1	Auto read.....	17
8	Working with Art-Net.....	18
9	Disconnected interface.....	19

10	Configuring device features	20
10.1	Reading and writing device features	20
11	Copyright.....	22
12	Disclaimer.....	23
13	Limitations of damages.....	24

3 The MultiOne system

With MultiOne, you can configure all features that are supported by a specific Philips device. A feature typically belongs to one or two device families (LED Indoor/Outdoor, HID or FLUO), but this does not mean that every device from a device family does support all features. MultiOne only works in combination with the Philips LCN8600 MultiOne interface USB2DALI, the Philips LCN8650 MultiOne interface USB2ZigBee, the Philips LCN9600, LCN9610 LCN9620 or LCN 9630 MultiOne interface SimpleSet®.

3.1 DALI

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

- Philips LCN8600 MultiOne interface USB2DALI, the interface between the PC and the DALI devices.



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



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

3.2 ZigBee

The MultiOne system for ZigBee devices consists of the following components:

- Philips LCN8650 MultiOne interface USB2ZigBee, the interface between the PC and the ZigBee devices.



- MultiOne software, to be installed on the PC or laptop. See next chapter.
- ZigBee is supported by MultiOne Engineering and **not** by MultiOne Workflow

3.3 SimpleSet

The MultiOne system for SimpleSet devices consists of the following components:

- The Philips LCN9600, LCN9610, LCN9620 and/or LCN9630 MultiOne interface SimpleSet® are USB devices which interface between the PC and the SimpleSet® devices:

Engineering Sample

Only use for first testing



Philips LCN9600



Philips LCN9610
FEIG



Philips LCN9620
FEIG



Under investigation

Philips LCN9630

- USB-A to USB-B cable (when using the Philips LCN9600) to connect the PC with the SimpleSet interface.
- MultiOne software, to be installed on the PC or laptop. See next chapter.
- SimpleSet is supported by MultiOne Engineering and by MultiOne Workflow

3.4 Art-Net

- The MultiOne system for Art-Net does not require specific Philips components. For example MultiOne works with drivers connected to via a Luminex controller.
- MultiOne software, to be installed on the PC or laptop. See next chapter.
- Art-Net is supported by MultiOne Engineering and **not** by MultiOne Workflow

4 MultiOne software

4.1 Download

MultiOne can be downloaded from www.philips.com/MultiOne. This zip-file contains the following files:

- The MultiOne installation file
- The MultiOne 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 MultiOne:

- PC or laptop with Microsoft Windows 7, 8, 8.1 or 10
- 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 USB2ZigBee interface
 - One free USB 2.0 port for use with SimpleSet interface
- Ethernet port:
 - One free Ethernet port for use with Art-Net protocol
- At least 45 MB of free disk space
- Microsoft .NET Framework 3.5 SP1 ([download here for offline installation](#))

4.3 Installing

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

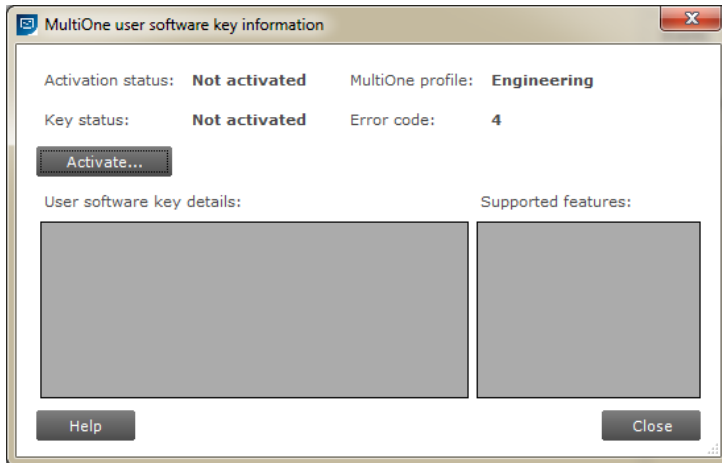
To install the software, launch the installer for the desired version and follow the instructions on your screen.

NOTE: Make sure that all MultiOne 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 MultiOne.

4.4 Activation

MultiOne Engineering will ask you to activate your copy of MultiOne upon the first startup.



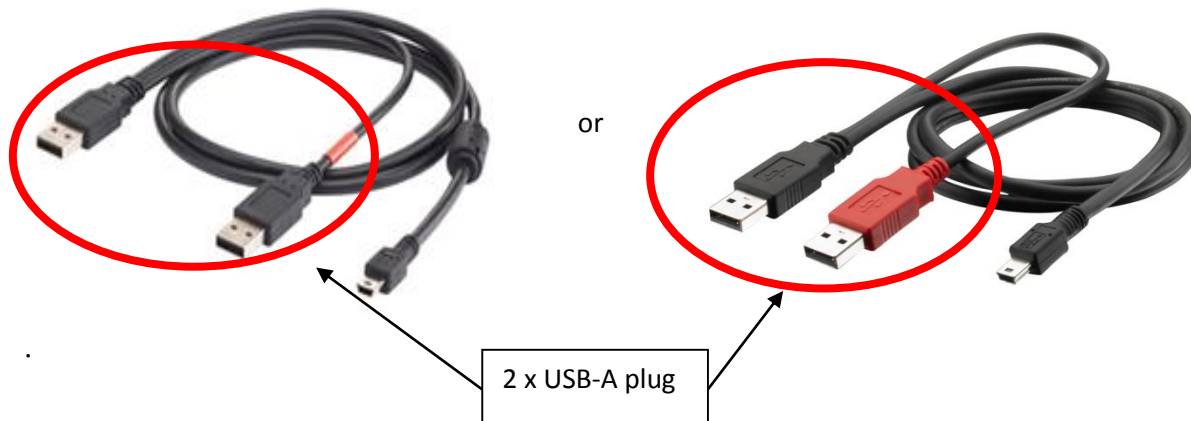
Press the Active button and follow the onscreen information in order to activate your MultiOne Engineering copy.

Then the user software key details and supported features should contain the expected information. After pressing the close button MultiOne is ready for use.

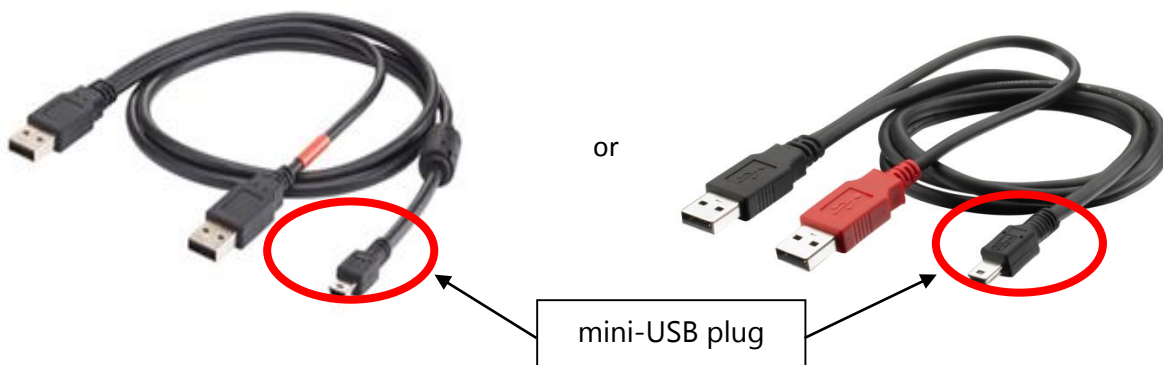
5 Working with the Philips LCN8600 MultiOne interface USB2DALI

5.1 Connecting the USB2DALI interface

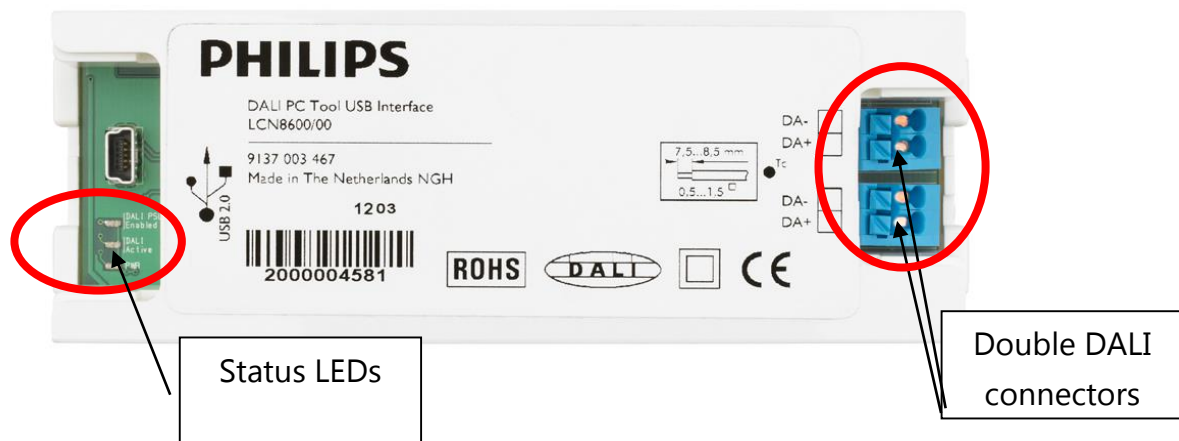
Before launching MultiOne, make sure the USB2DALI interface is connected. First connect both USB plugs (USB-A) of the provided cable into your PC's USB ports. When only one USB port is available, connect the black USB plug.



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



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).



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

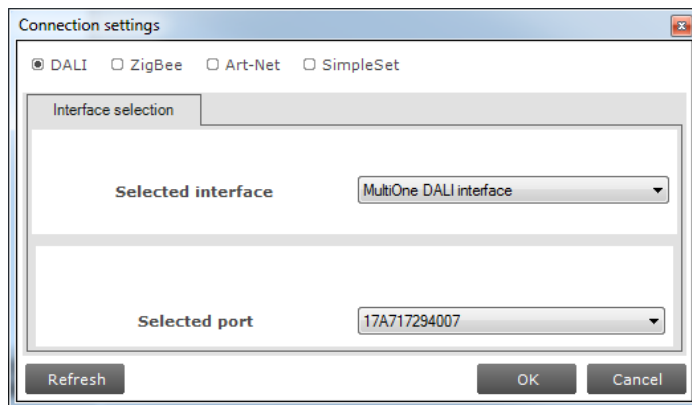
The status LEDs have the following meaning:

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 MultiOne is started you need to make sure the USB2DALI interface is used. This can be done by going to the **Tools** → **Connection settings**....



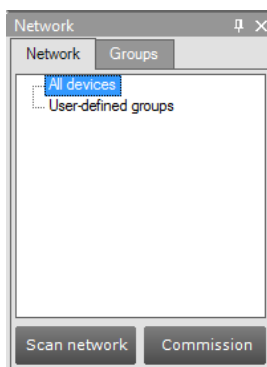
In the pop-up window select **DALI**; select the port to which you connected the USB2DALI interface and click **OK**.

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 MultiOne instance (when configuring devices in parallel using multiple instances of MultiOne).

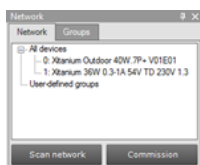
5.2 Scanning and commissioning a DALI network

When starting MultiOne, 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

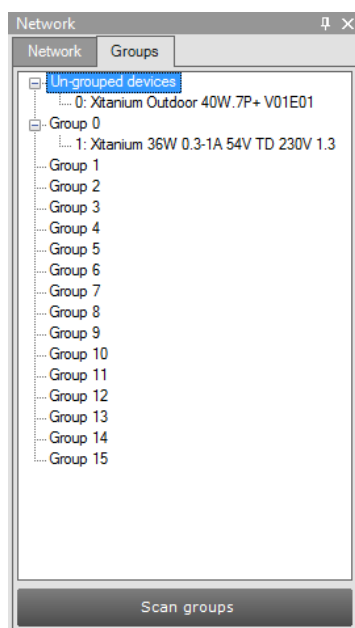
After having commissioned or scanned the network, the **Network** tab shows all devices present in the DALI network. By clicking on a device you will make that particular device the active one, meaning that all commands will be sent to this device only, and will be ignored by all other devices.

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.



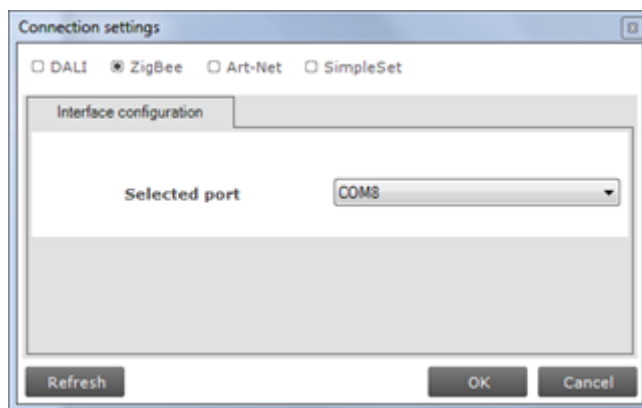
By clicking on a device you will make that particular device the active one, meaning that all actions will be performed on this device only, and will be ignored by all other devices. Besides selecting a single device for communication, it is also possible to communicate with a group of devices. Select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

6 Working with the Philips LCN8650 MultiOne interface USB2ZigBee

6.1 Connecting the USB2ZigBee interface

Before launching MultiOne, make sure the USB2ZigBee interface is connected and make sure the ZigBee devices are connected to the mains.

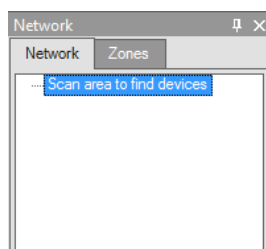
When MultiOne is started you need to make sure the USB2ZigBee interface is used. This can be done by going to the **Tools** → **Connection settings....**



In the pop-up window select **ZigBee**; select the port to which you connected the USB2ZigBee interface and click **OK**.

6.2 Scanning a ZigBee area

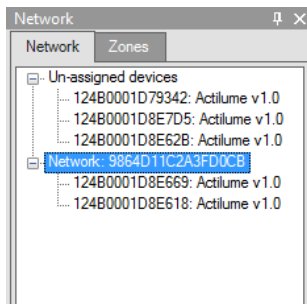
After selecting the USB2ZigBee interface, the ZigBee devices and networks in the area of the interface are not automatically known.



To find the devices and networks in the area press **Scan area**: the area is scanned for all devices and networks which are in range. After scanning the area, the found devices and networks are shown in the **Network** tab.

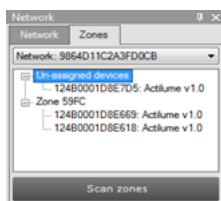
6.3 Selecting devices for communication

After having scanned the area, the **Network** tab shows all devices and networks in range of the USB2ZigBee interface.



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

Once you have scanned the area and found devices and networks in range, it is possible to scan a specific network for zones. Select the **Zones** tab, select a **Network** and press **Scan zones**. After having scanned the network, the **Zones** tab shows the found devices and zones within the specified network.



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

For detailed information on devices, networks and zones, please be referred to the MultiOne User manual.

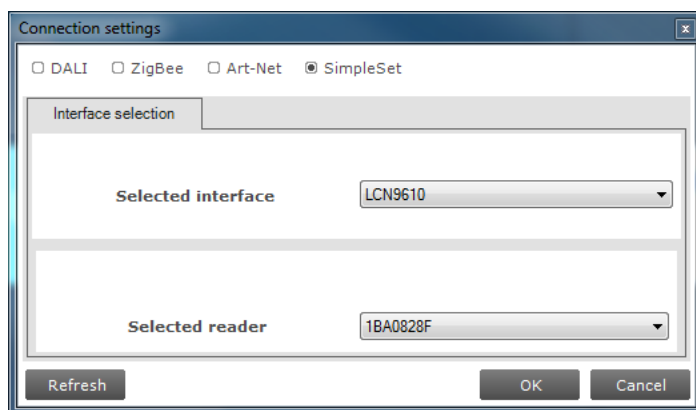
7 Working with the Philips LCN9600, LCN9610, LCN9620 and LCN9630 MultiOne interface SimpleSet®

7.1 Connecting the SimpleSet interface

Before launching MultiOne, make sure the SimpleSet 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 MultiOne is started you need to make sure the SimpleSet interface is used. This can be done by going to the **Tools** → **Connection settings....**

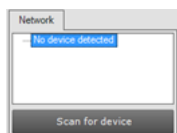


In the pop-up window select **SimpleSet**, select the interface, select the reader (in case of a FEIG interface) and click **OK**.

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 MultiOne instance (when configuring devices in parallel using multiple instances of MultiOne).

7.2 Scanning a SimpleSet device

After selecting the SimpleSet interface, a SimpleSet device near the interface is not automatically known by MultiOne.



To get the device press **Scan for device**; touch and hold the SimpleSet interface close to the device until the scan has completed, if needed, a pop-up will appear indicating

the device and the SimpleSet interface must touch. The scanned device will be shown in the **Network** panel.

7.3 Selecting devices for communication

After having scanned the SimpleSet 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.

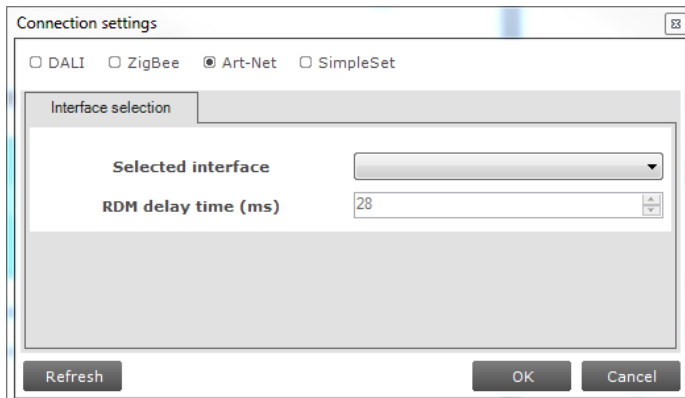
7.3.1 Auto read

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.

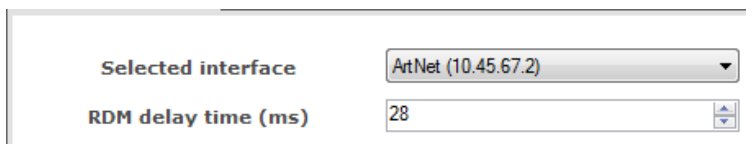
Note! If the SimpleSet interface is not close to the device, Auto read will not work.

8 Working with Art-Net

First select the protocol: Art-Net.



For the Art-Net protocol the delay time between sending frames is shown in the dialog. This delay time is set to 28ms and cannot be changed.

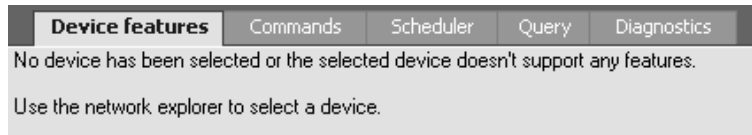


9 Disconnected interface

If the USB2DALI, USB2ZigBee or SimpleSet interface becomes disconnected during use, MultiOne must be restarted. After closing MultiOne reconnect the interface via its USB plug. Restart MultiOne 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 once¹.

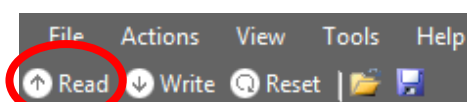
Upon selecting a device in the **Network** tab, the **Device features** tab displays the features that are supported by this device. After selecting another device, the **Device features** tab is updated to show only the features supported by the newly selected device. You will have to click the **Read**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

10.1 Reading and writing device features

The **Device features** tab can do three things: show the default values used by MultiOne, 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.

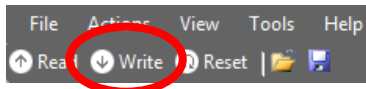


A dialog window pops up in which you can make a selection of device features to be read. Make a selection and click **Read**. After a few seconds the current feature

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

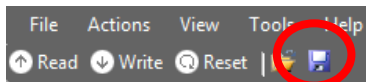
configuration is shown on the **Device features** tab. The feature configuration can now be adjusted manually.

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**.

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