WirelessProfessional

Installation and Software Operation

Documentation for software version 3.0
V1.8 - as at: 31.10.2024
Technical and editorial content subject to change without notice

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1 Information About Using the Operating Instructions

Keep these operating instructions so you can refer to them at a later date!

1.1 Technical Terms

You will find an explanation of all the technical terms used in these operating instructions in the Glossar section.

1.2 Formatting Conventions

- Terms used by the WirelessProfessional software and which you may encounter on the display are printed in bold in the instructions. For example, "Above the **General** view, you will find the **General**, **Alarm List**, **Groups** and **Maps** tabs".
- WirelessProfessional software buttons appear with a grey background in the instructions. For example, "Select Login and enter the installer password."

1.3 Basic Use of the WirelessProfessional Software

The WirelessProfessional software can be used both via a touchpad / mouse or a touch screen.

1.3.1 Tabs and Views

Figure 1 shows an example of the **General**view used in the WirelessProfessional software. Above the **General** view, you will find the **General**, **Alarm List**, **Groups** and **Maps** tabs. A view is selected by left-clicking on the corresponding tab above the view or tapping the tab on the touch screen.

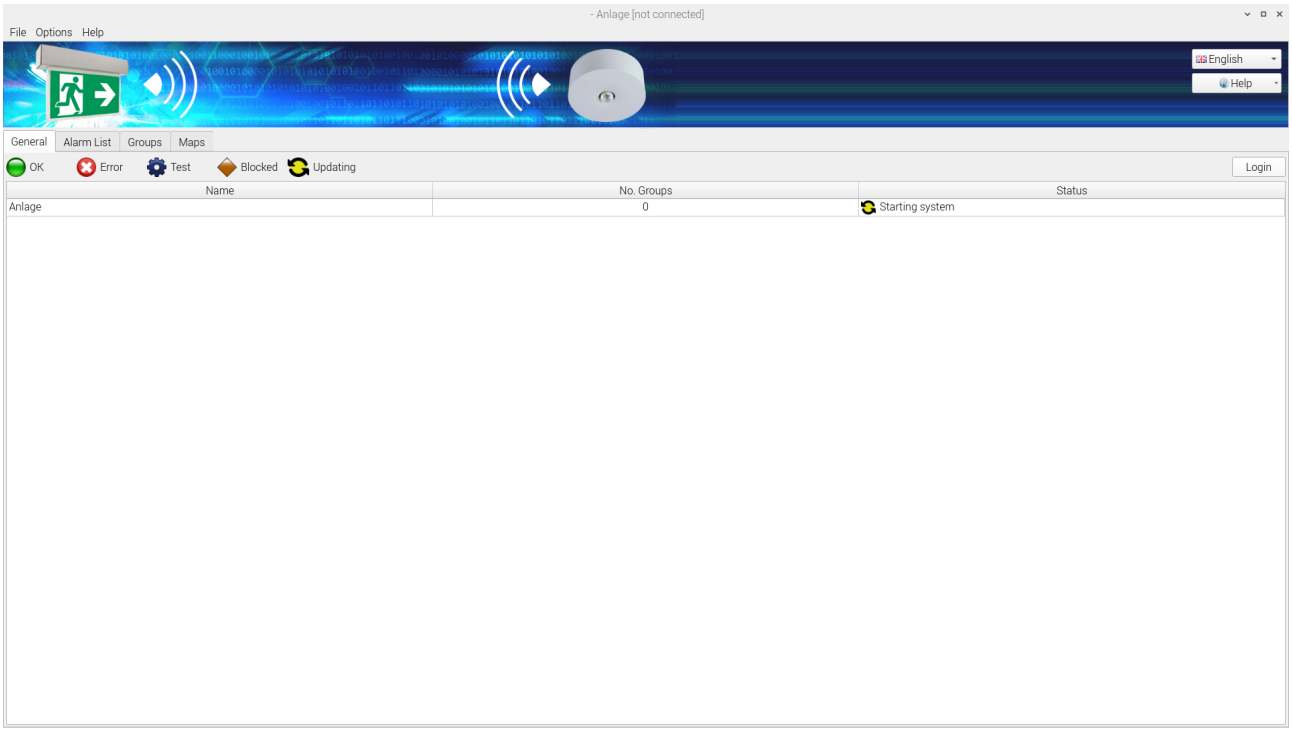


Figure 1: **General** view

1.3.2 Highlighting

An individual element in a list of elements is highlighted by left-clicking on the element or tapping the element on the touch screen (Figure 2).

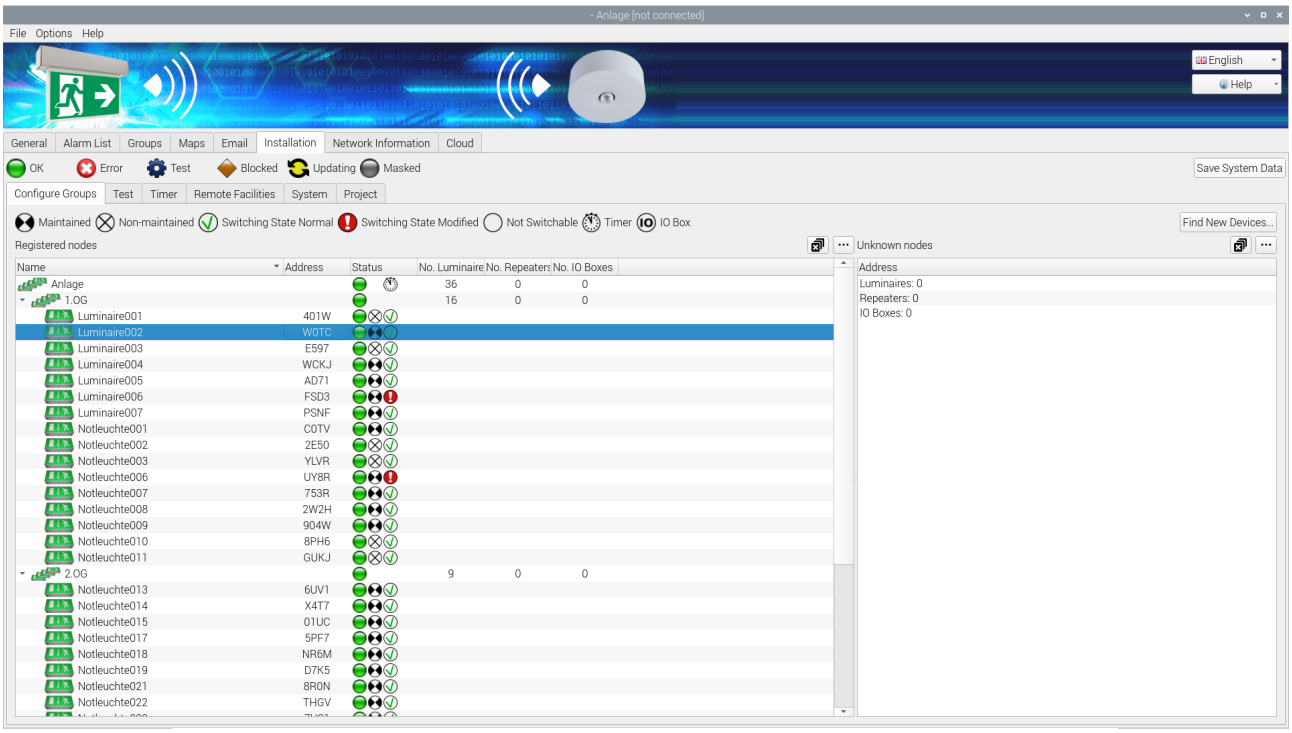


Figure 2: One highlighted device

Several elements in a list can be highlighted by pressing and holding the Ctrl key and left-clicking on all the elements you want to highlight or tapping them on the touch screen (Figure 3). Alternatively, several elements can be highlighted if the multiple selection button  is clicked on or tapped first. If the multiple selection function is enabled, the  button comes into play and the part of the window for which the function is enabled is framed with a dotted line (see Figure 3: Selecting several devices)

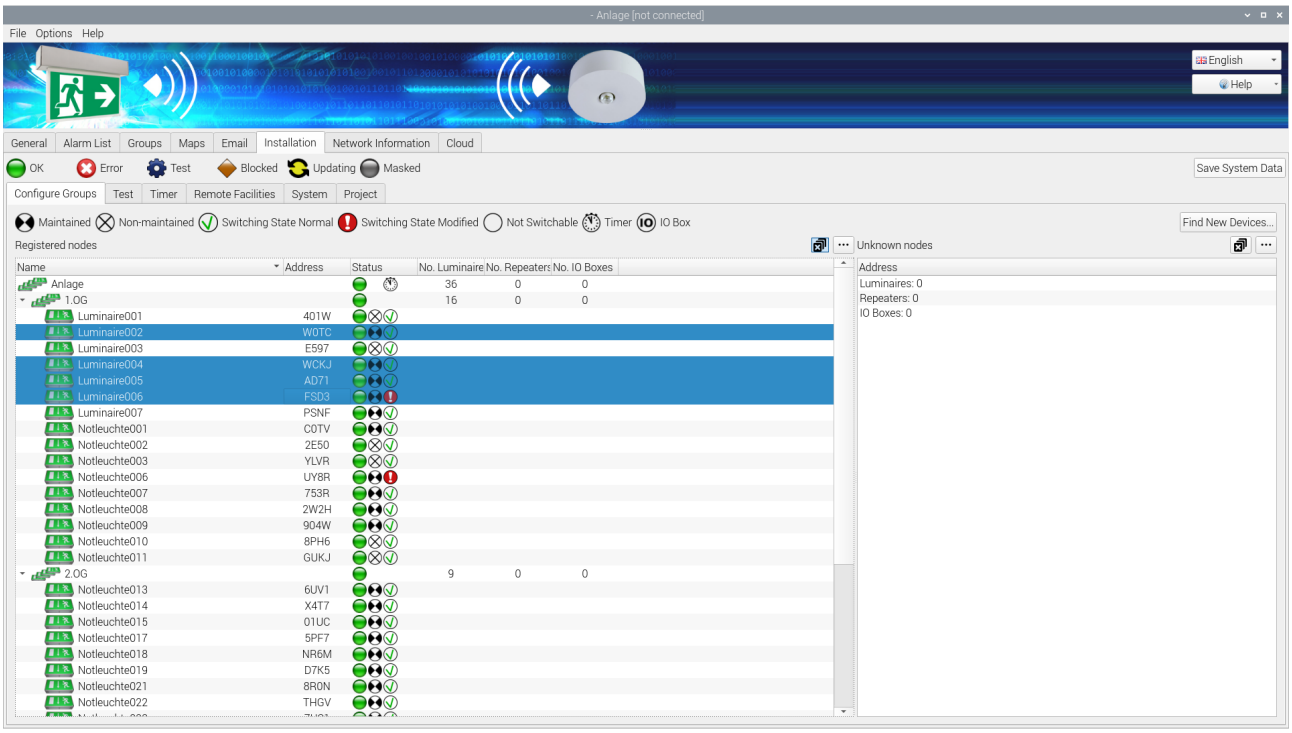


Figure 3: Selecting several devices

The multiple selection button can be found in the top right of all lists in which several elements can be selected at the same time. If a tab contains several lists for which multiple selection is available, the multiple selection function can only ever be enabled for one list at a time.
If the multiple selection function is enabled for a list in a tab with several lists offering the multiple selection function and the multiple selection button in another list is clicked on or tapped, the previously enabled multiple selection function is disabled.
When a tab is exited, the multiple selection function is always automatically disabled.

To cancel the multiple selection of elements, disable the multiple selection function and click on or tap an individual element. Alternatively, all highlighted elements can be tapped or clicked on again with the multiple selection function enabled.
The highlighting and/or selection or multiple selection is retained when the tab is exited or when elements are highlighted in another list under the tab.

Several consecutive elements in a list are highlighted by clicking on the top element of the range to be highlighted or tapping this on the touch screen, then pressing and holding the Shift key and clicking on the bottom element of the range to be highlighted or tapping this on the touch screen (Figure 4).
All elements in a list are highlighted by left-clicking on the list or tapping the list on the touch screen and then pressing Ctrl+A.
Not all views in the WirelessProfessional software support all these methods for highlighting elements.

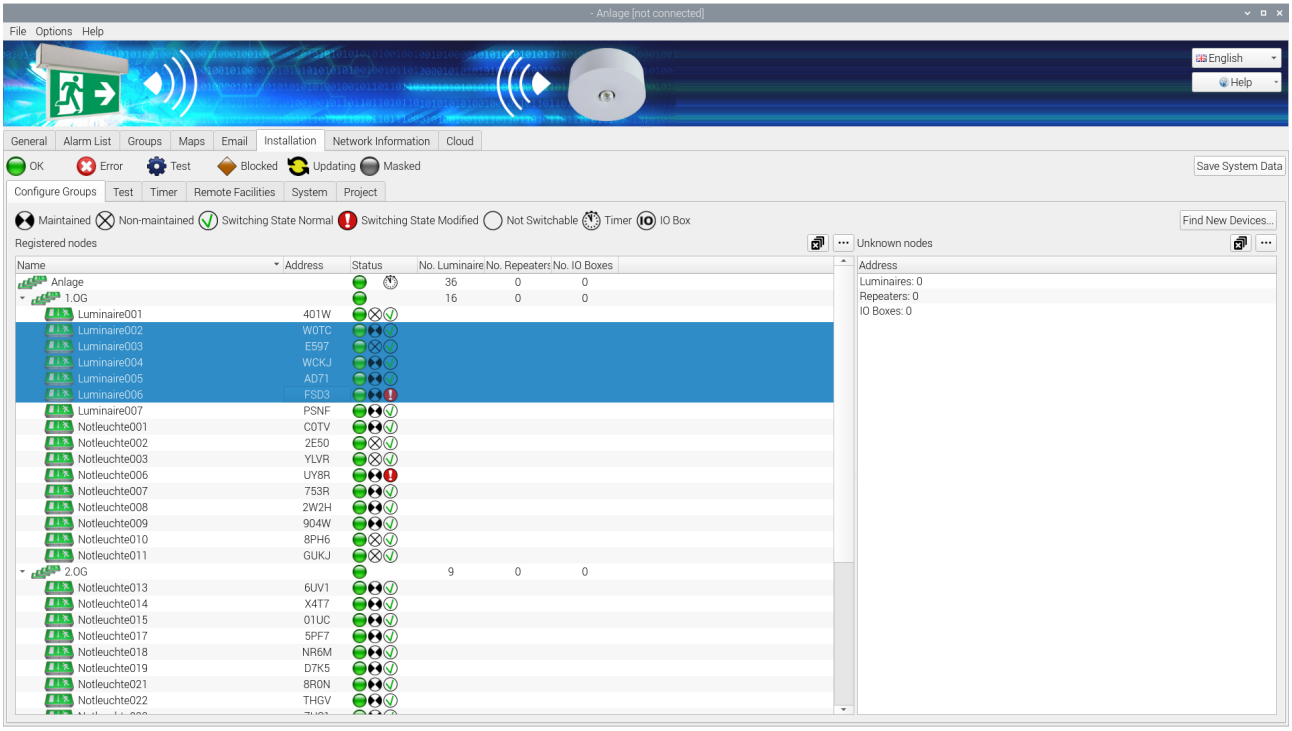


Figure 4: Several consecutive highlighted devices

1.3.3 Dragging

Highlighted elements are moved by left-clicking on the highlighted elements and holding down the mouse button. The elements are then dragged to the desired location (Figure 5) and the mouse button is released.
On the touch screen, highlighted elements are moved by touching the highlighted elements with your finger, keeping your finger on the elements and dragging them to the desired location (Figure 5). Once in the desired location, lift your finger off the touch screen. Alternatively, the highlighted elements can be moved with the aid of the context menu. See 1.3.4 Context Menu.

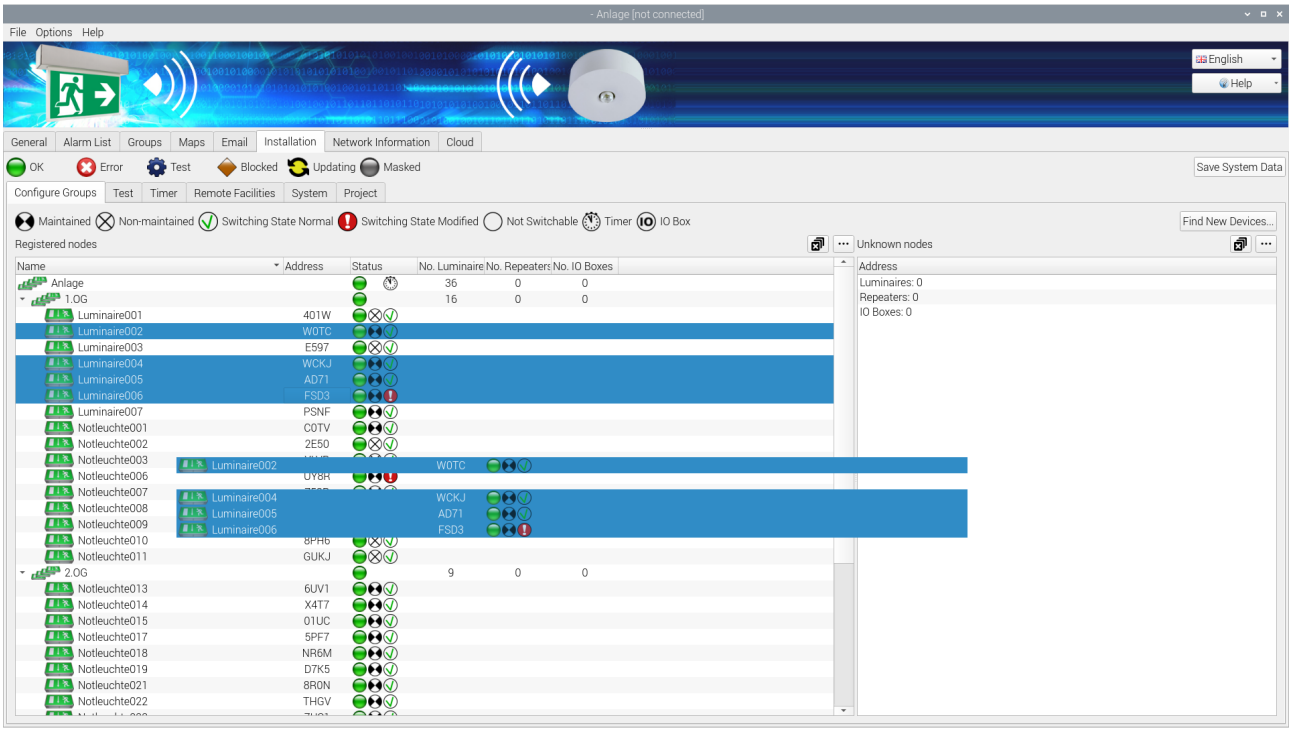


Figure 5: Dragging several highlighted elements

1.3.4 Context Menu

The context menu for one or more elements is opened by clicking on or tapping the context menu button  (Figure 6). The right-click option previously used is no longer available. The context menu button can be found in the top right of each window for which there is a context menu available.

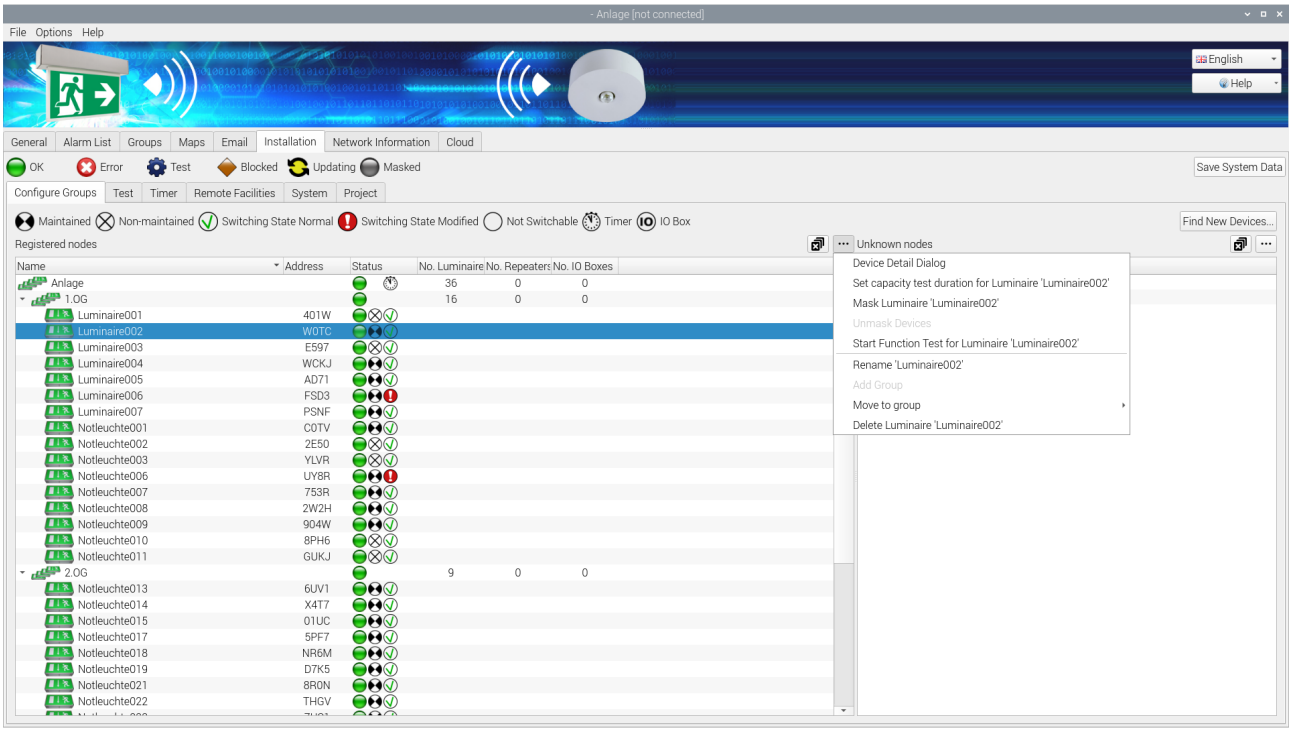
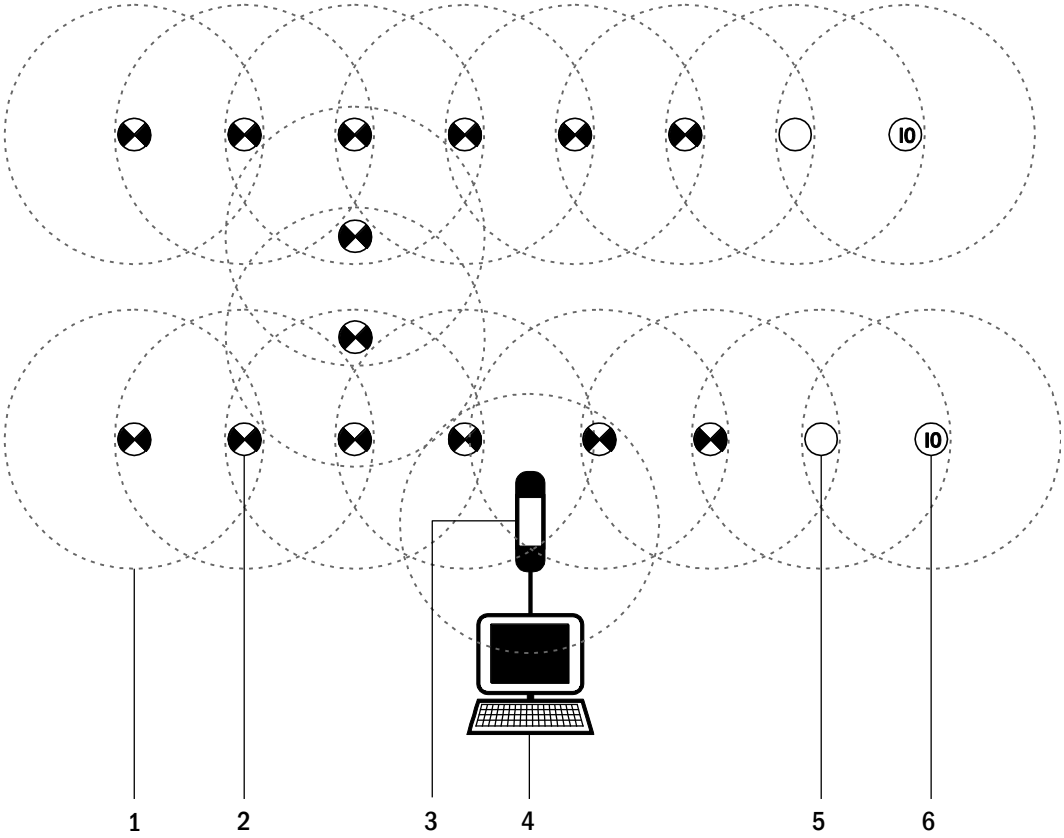


Figure 6: Context menu for a device

2 Introduction to the WirelessProfessional System

The WirelessProfessional system is a system for automatically testing safety lighting in accordance with DIN EN 62034.
Figure 7 shows the components of a WirelessProfessional system and how they work. The emergency luminaires and other devices form a radio network, via which they communicate with the automatic test system. The automatic test system comprises a PC with the WirelessProfessional software (Figure 7 no. 4) and USB coordinator (Figure 7 no. 3). The USB coordinator establishes the connection between PC and radio network. The frequency of the radio network is 868 MHz.



1 Send/receive radius
2 Maintained emergency luminaire
3 USB coordinator
4 Computer
5 Repeater
6 IO box

Figure 7: Setup of a WirelessProfessional system

Each device in the radio network has a send/receive radius (Figure 7 no. 1). The send/receive radius of the WirelessProfessional device is at least 30m indoors.

For it to be possible to pass data between two devices in the radio network, the one device must be in the send/receive radius of the other one. All the devices in a system must be linked to the USB coordinator of the automatic test system through an uninterrupted chain of devices, which are able to pass on data. Figure 8 shows a system, in which the radio connection to the three devices in the top right is interrupted. All other devices in the Figure are linked to the USB coordinator through an uninterrupted chain of devices and can communicate with it.

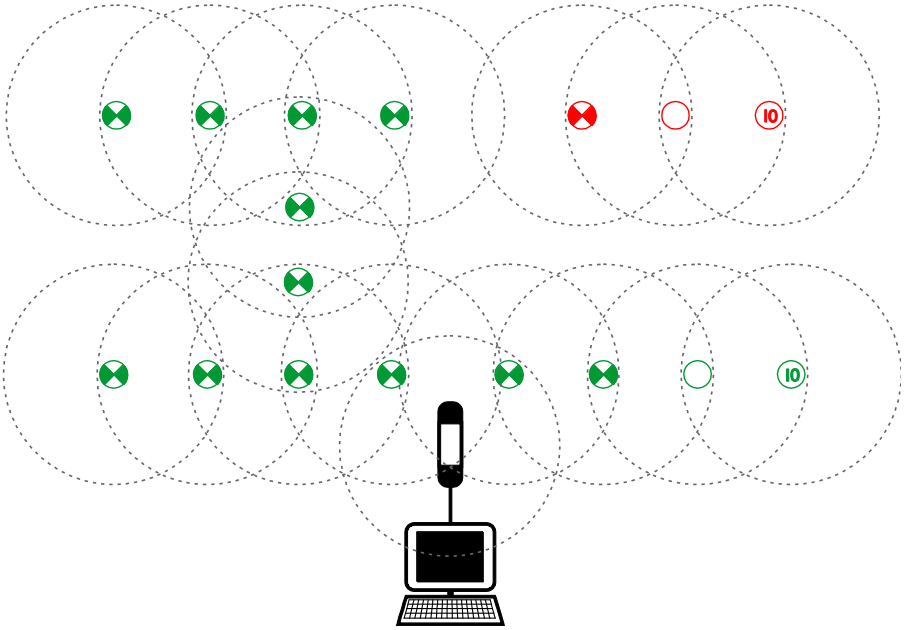


Figure 8: Devices with radio connection to the USB coordinator (green) and devices with interrupted radio connection (red)

Tabelle 1 lists the device types available to the WirelessProfessional systems and their functions. Only the device types stated for WirelessProfessional systems may be used in WirelessProfessional systems.

Device type	Function
Maintained emergency luminaire	Luminaire for continuous lighting and for instances when the power supply to the general-purpose lighting fails
Non-maintained emergency luminaire	Luminaire for instances when the power supply to the general-purpose lighting fails
IO box	Device with digital inputs/outputs for issuing system statuses and triggering system functions externally
Repeater	Device for bridging the gap between two devices in the radio network if they are outside the send/receive radius

Table 1: Device types of the WirelessProfessional system

Each WirelessProfessional device has its own four-digit, alphanumerical address. The address can be found on the outside of the WirelessProfessional devices. In the WirelessProfessional software, devices are identified and assigned to the right mounting location by means of their address. A WirelessProfessional system may comprise no more than 1000 devices. A larger number of devices can be split over several WirelessProfessional systems.

2.1 Commissioning after Power Supply has Failed

Should the power supply fail, the emergency lighting goes into emergency mode. Once the power supply has been restored, the PC has to be switched on again using the On/Off switch in order for the automatic test system to start up. The Windows user account is logged into automatically and the WirelessProfessional software is launched automatically.

2.2 Running Capacity Tests

A capacity test of WirelessProfessional emergency luminaires can only be undertaken if the mains operation was last interrupted (mains failure, fuse failure, capacity test) at least 24h ago.
When starting a capacity test, the WirelessProfessional system produces a schedule for starting the test on each emergency luminaire. Using this schedule, the capacity test is first started on the emergency luminaires with the longest autonomy time. If all emergency luminaires on the WirelessProfessional system have the same autonomy time, the test is started one after the other on each emergency luminaire.
If a manual capacity test is started and the test cannot be started on one or more emergency luminaires, the launch of the capacity test for these emergency luminaires is postponed by 15 minutes and/or the WirelessProfessional software tries to start it again. The WirelessProfessional software will try up to ten times to run a capacity test for the emergency luminaires before an entry is made in the inspection log book stating that the capacity test has failed.

Note: The time that the WirelessProfessional systems need to run a capacity test is more than the autonomy time of the emergency luminaires and increases in proportion to the size of the system. The end of the capacity test is also extended by 15 minutes each time the system tries to start the test.

2.3 Processor-Controlled Emergency Luminaires

In some WirelessProfessional emergency luminaires, battery charging is controlled by a microprocessor. This prevents function and capacity tests from being run if the battery has not been charged to the required end-of-charge voltage. Luminaires with this characteristic are described in the enclosed instructions as a “processor-controlled emergency light” or a luminaire with “integrated SelfControl monitoring”.

2.4 Invalid Times due to Flat RTC Battery

If the following error message appears when launching the Wireless Professional software, the system date is invalid and/or the real time clock battery is flat and needs replacing.

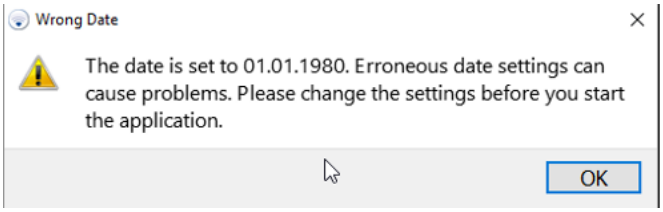


Figure 9: Error message indicating invalid system date

2.5 Protection Against Unauthorised Access

The active system can be protected from unauthorised access by activating full-screen mode. The password for the relevant user level will have to be entered to exit full-screen mode.

3 Installation

3.1 Before Commissioning the Automatic Test System

Before you commission the automatic test system, the emergency luminaires and other devices should have been fitted in the building and their addresses entered in the map. The 3rd address sticker, included in the scope of supply for each device, can be used for this purpose. All emergency luminaires and other devices, which are to be added to the safety lighting system during the installation process, must be in mains operation.
DIN EN 62034 requires a capacity test over the entire assessment period when commissioning an automatic test system. The batteries of the emergency luminaires must be fully charged (at least 20 h) for this capacity test. Ensure that all emergency luminaires have been in mains operation for a period of at least 24 h without any interruptions before starting the initial capacity test on the automatic test system.

3.2 Using the WirelessProfessional Software

If you are not yet familiar with how to use the WirelessProfessional software, it is essential that you read Section 1.3 about basic use of the software before you start the commissioning process!

3.3 Connecting PC and USB Coordinator

- Connect the PC power supply to a socket and connect the PC to the power supply.
- Connect the USB coordinator to a free USB port on the PC.
- **Important:** Use the USB cable provided to connect the USB coordinator to the PC. Always connect the USB coordinator to the PC directly and not via a USB hub.
- Boot up the PC with the On/Off switch.

The operating system launches automatically with the WirelessProfessional user account and the WirelessProfessional software is launched automatically. The connection to the USB coordinator is established automatically and the display in the application window's title bar changes from **[not connected]** to **[connected and running]**. If the connection to the USB coordinator is not established automatically, change the port manually as described below.

In the top left edge of the screen, click on **Options** and then **Serial Port** or click on the **Installation** tab and then **System**. This allows you to click on the Serial Port button and go to the drop-down menu for the serial port.

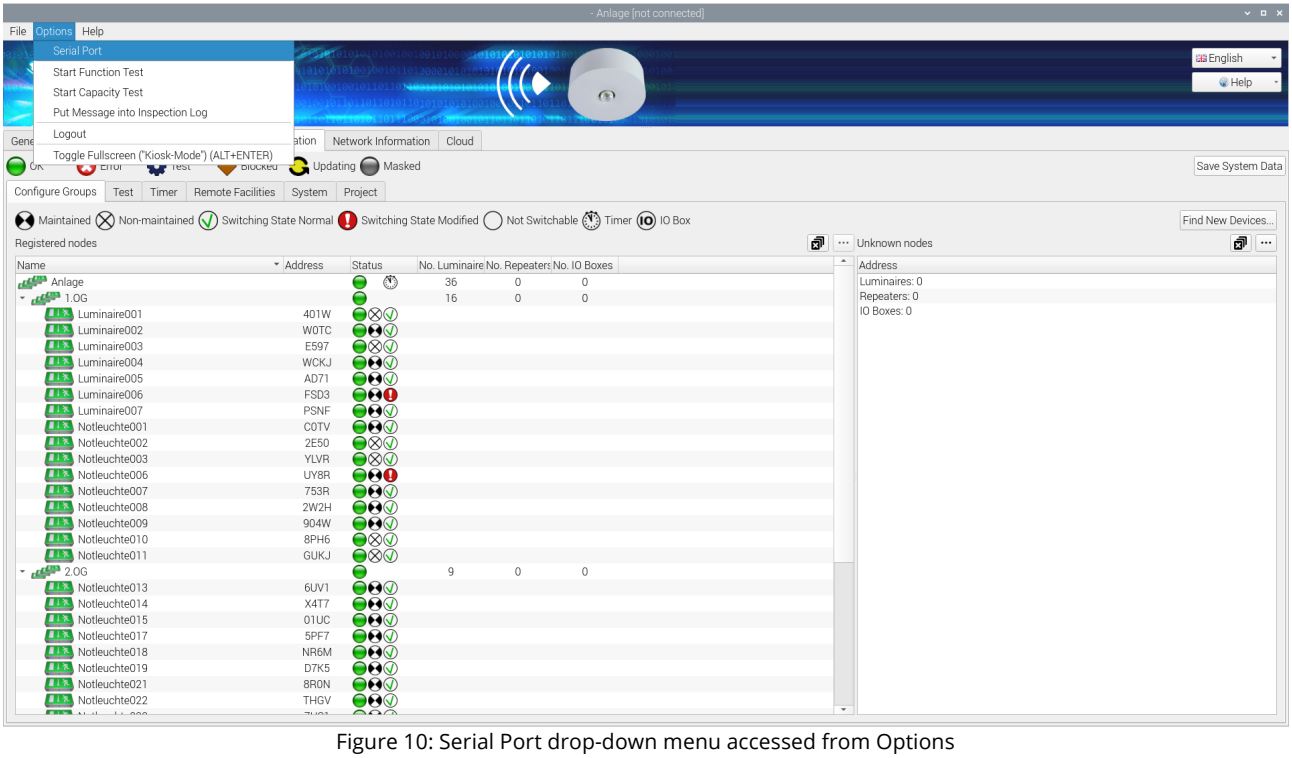


Figure 10: Serial Port drop-down menu accessed from Options

In the next window, click on the black arrow to open the drop-down menu, select **USB Serial Port** and confirm with OK. The application window's title bar should then have changed to **[connected and running]**.

Note: The COM**x** details depend on the USB slot selected and so may vary.

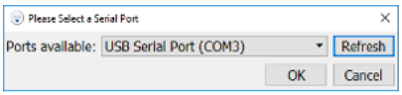


Figure 11: Selecting serial port

3.4 Changing Password

- Select Login and enter the Installer password. The installer password is preset in the factory to **2222**.
- Go to the **Installation** tab. Select the **System** tab from the bottom set of tabs. Select **Change Installer Password**.

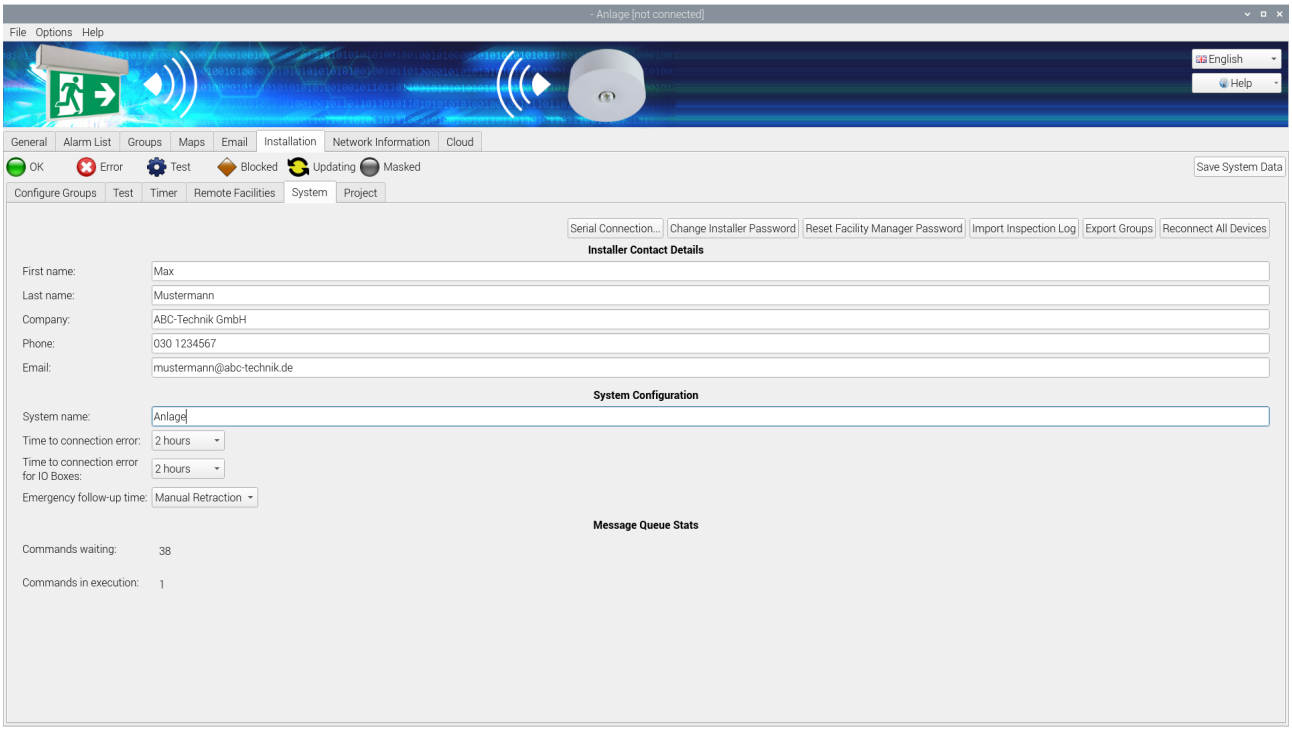


Figure 12: Changing password

- Enter the preset installer password. Enter a new password and re-enter it. Take a note of the new password.

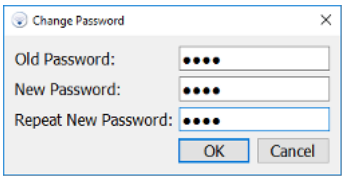


Figure 13: Entering password

3.5 Entering Contact Details and System Names

- Enter your contact details in the **First Name**, **Last Name**, **Company**, **Phone** and **Email** boxes.
- Enter a name in the **System name** box.
- Confirm the entries by clicking on Save System Data.

3.6 Installing Devices in the System

- Select **Installation** and **Configure Groups**. The **Unknown nodes** area shows the emergency luminaires and additional devices, which have a radio connection and which are not yet installed in a system. Ensure that all emergency luminaires and additional devices which have been fitted are powered by the mains and wait until all devices are listed in the **Unknown nodes** area.

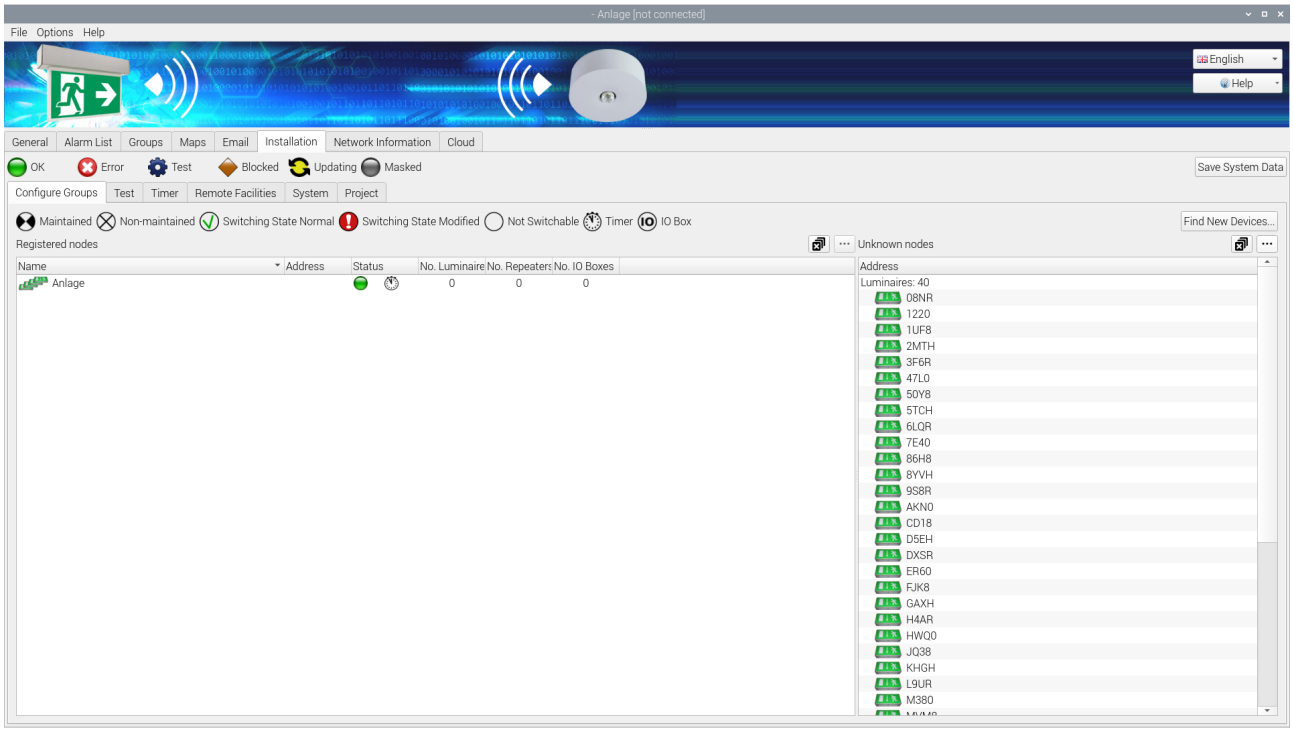


Figure 14: Devices available

Note: A different process is used to register devices with a wireless module of version 2.0 or higher. If not all devices are displayed in **Unknown nodes**, use the Find New Devices... button to start a new search.

Figure 15: Searching for new devices

Confirm the notification by selecting Yes to search for new devices on your system.

- Now install all emergency luminaires and additional devices in the system. To do this, highlight all elements in the **Unknown nodes** area and drag the highlighted elements into the **Registered nodes** area.

Warning: During the installation, position the USB coordinator so that it has a direct radio connection with fewer than 50 devices (for details, see Section 8.13).

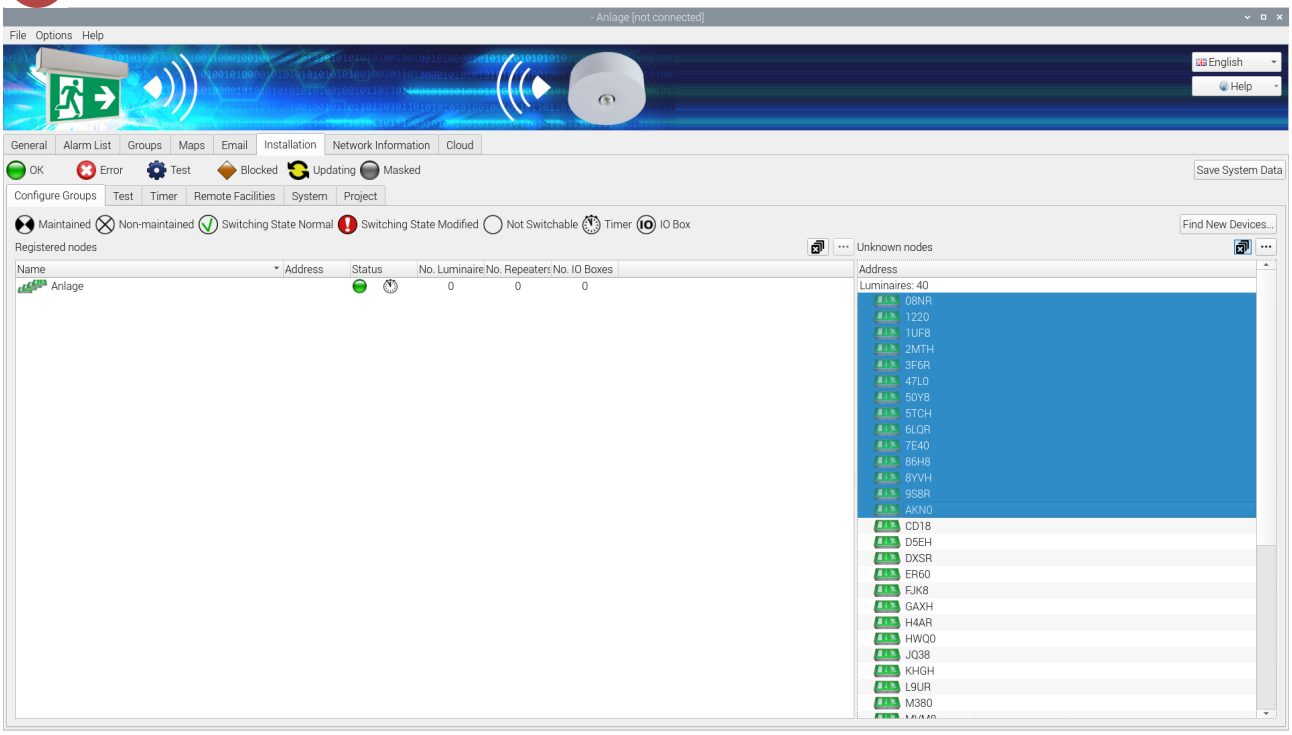


Figure 16: Highlighting devices available

Note: If you do not want to install all elements from the **Unknown nodes** area: Press and hold the Ctrl key and highlight just those elements you want to add by clicking on the elements and dragging them into the **Registered nodes** area.

- The WirelessProfessional software installs the added emergency luminaires and additional devices in the system. The remaining number of devices not yet installed is displayed in the first line of the **Registered nodes** area (**x devices not associated**). The time needed for this may vary depending on how the devices are arranged in the radio network and how far the installation has progressed (anything from several seconds to several minutes per luminaire).

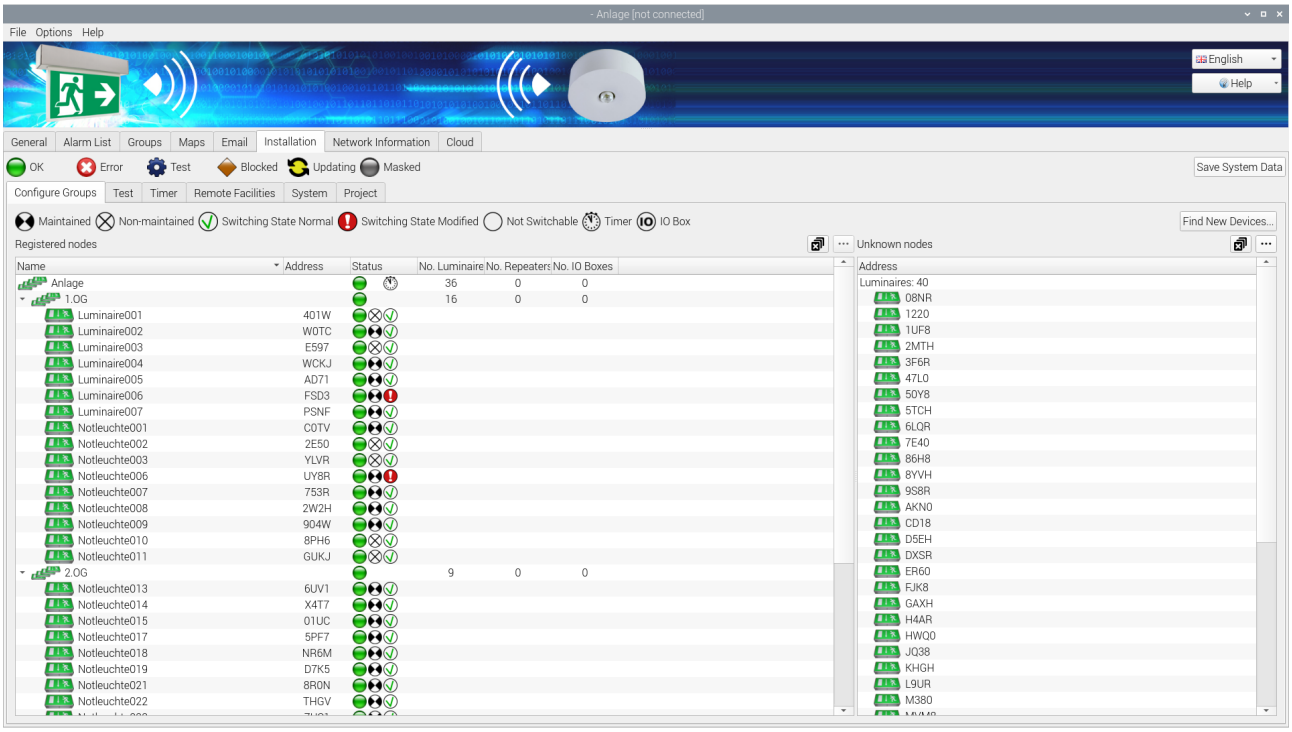


Figure 17: Associating devices available

- Once all devices have been successfully installed in the system, the first line of the **Registered nodes** area shows the number of emergency luminaires, repeaters and IO boxes installed in the system.

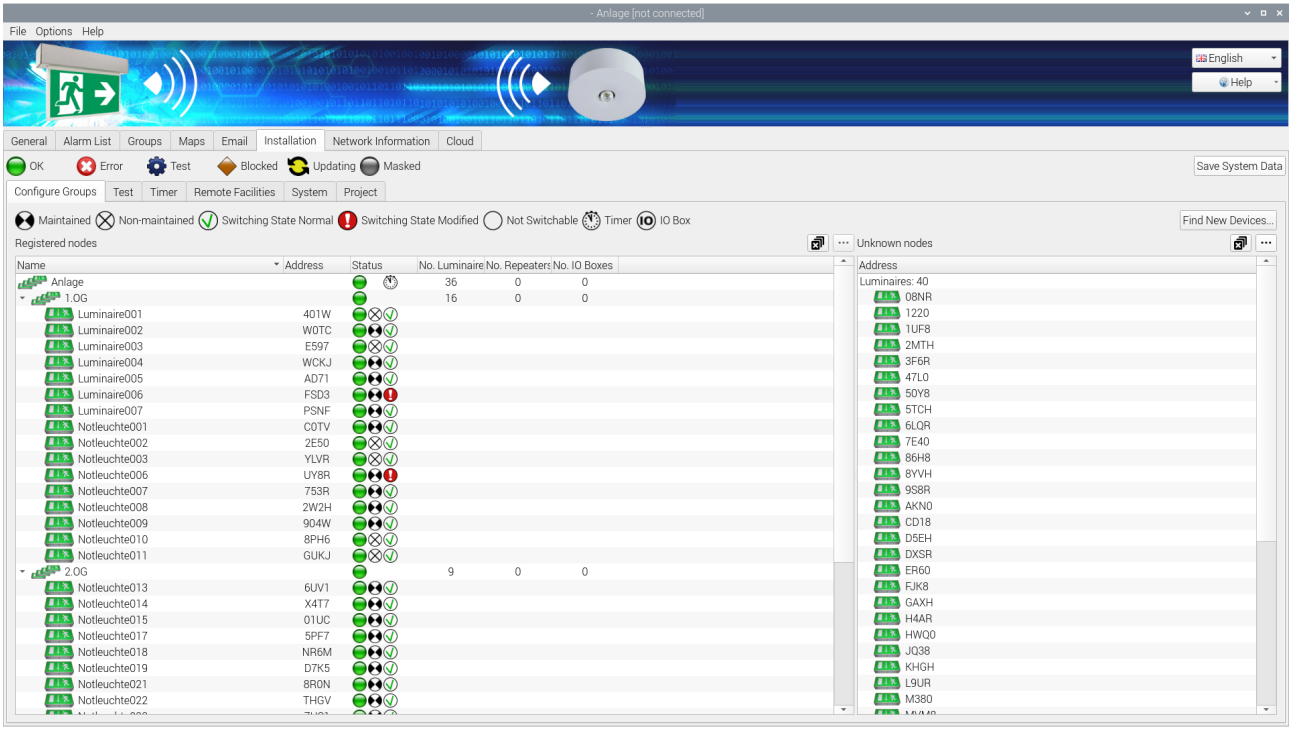


Figure 18: Devices successfully associated

- If you want to change the name of an installed device, open the device's context menu in the **Registered nodes** view and select **Rename 'NAME'**.

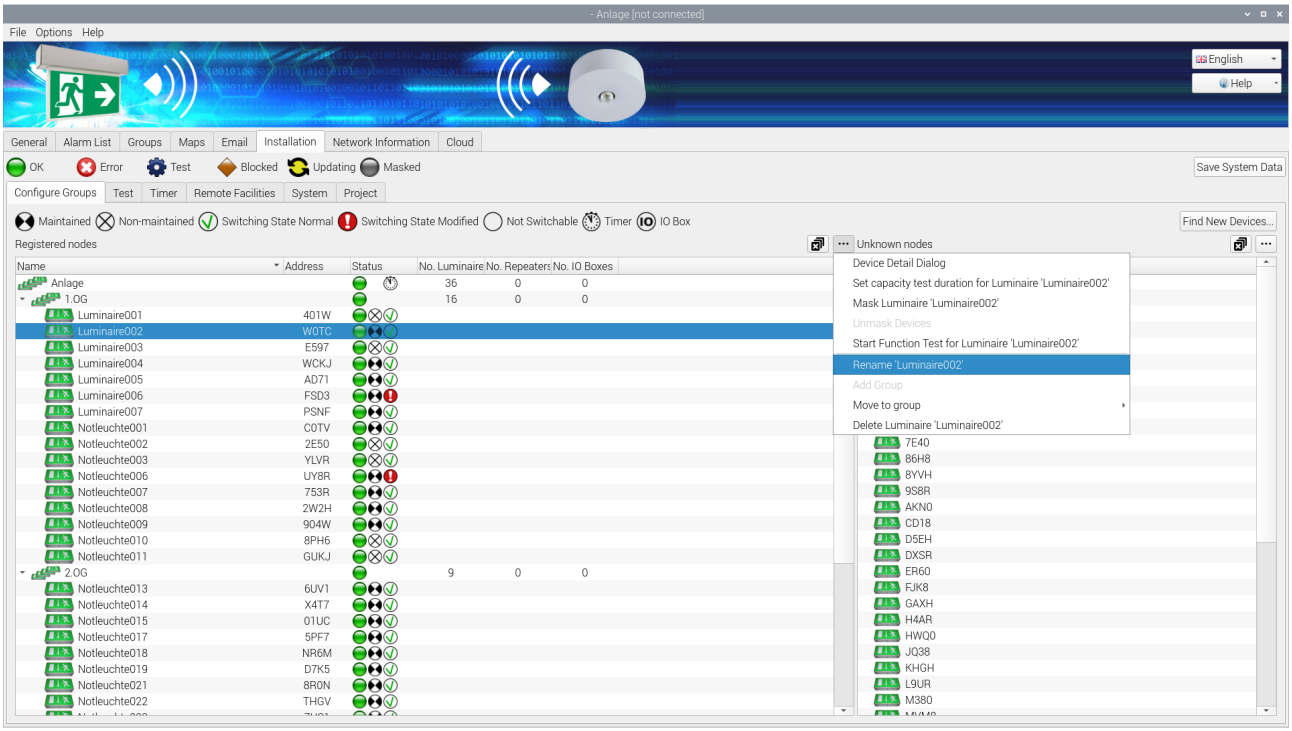


Figure 19: Renaming devices

- If you want to switch the operating mode of an emergency luminaire between non-maintained and maintained operation, open the device detail window for the emergency luminaire in the **Registered nodes** area (also refer to Section 5.15.1) by double-clicking with the left-hand mouse button on the name of the emergency luminaire or tapping the name twice.
- Complete installation of the devices in the system by selecting Save System Data.

3.7 Dividing Devices into Groups

1. If you want to divide system devices into groups, open the system context menu (first line of **Registered nodes** area) and select **Add Group to 'System'**.

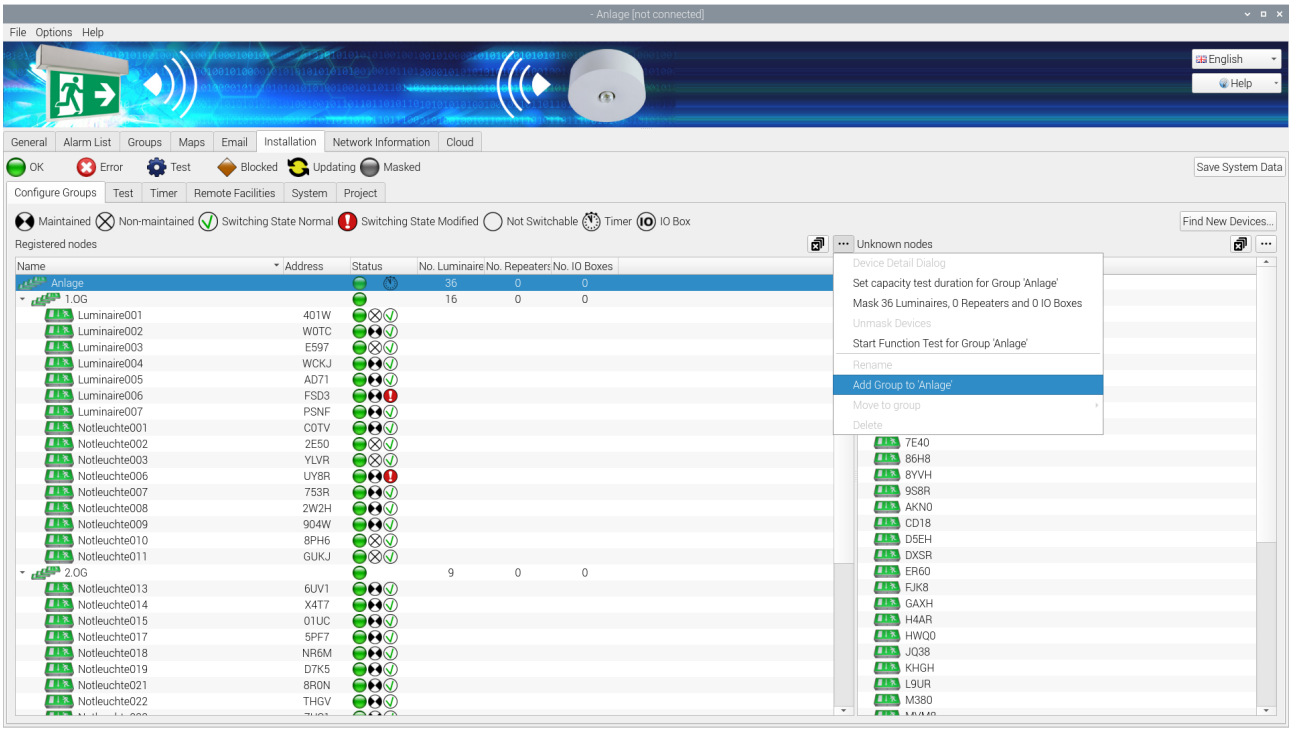


Figure 20: Creating a group

2. Enter the name of the group in the **Add Group to '<System>'** window and then select OK.

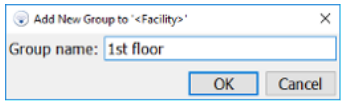


Figure 21: Group name

The newly added group is added to the list in the **Registered nodes** area in alphabetical order. Under some circumstances, it will therefore not be visible in the part of the list on display.

3. Press and hold the Ctrl key and highlight all elements in the list that are to be added to the new group. Drag the highlighted elements to the new group. If the group is not visible in the part of the list currently on display, scroll through the part you can see until the new group appears by dragging the highlighted elements to the top or bottom edge of the **Registered nodes** area.

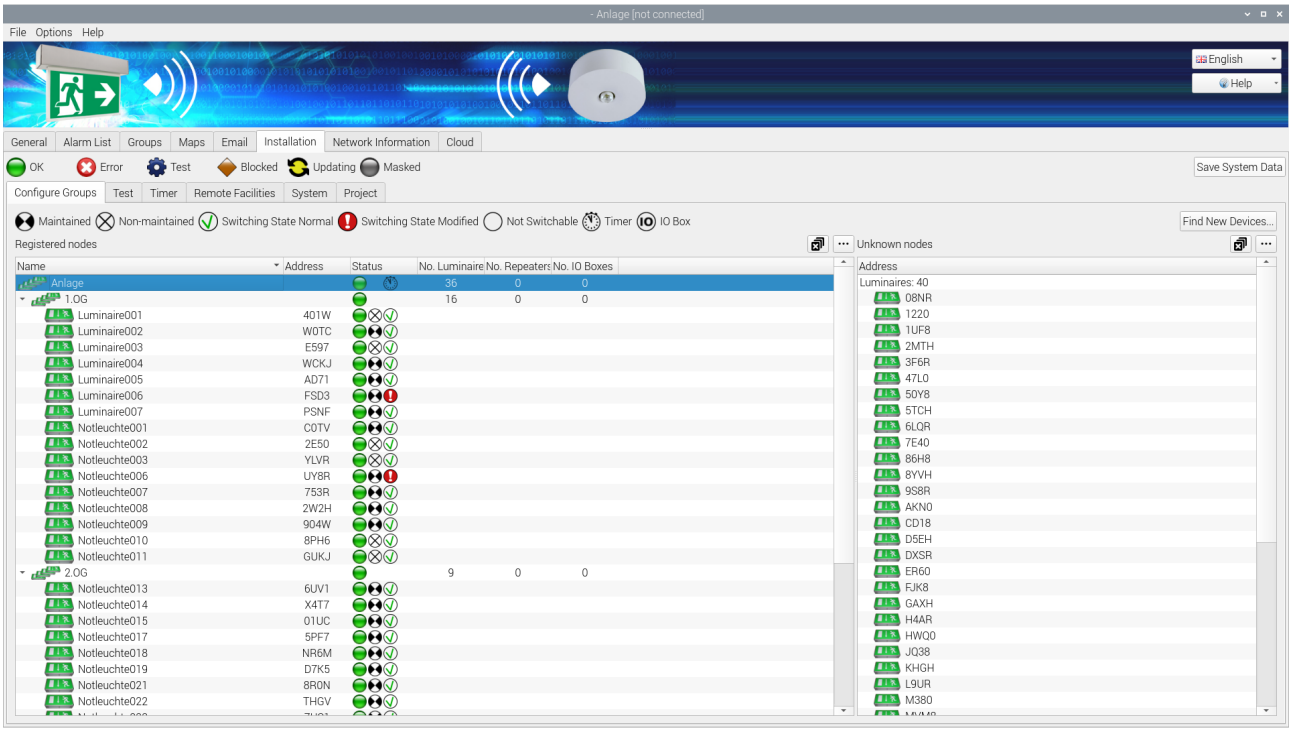


Figure 22: Assigning devices to groups

4. Repeat steps 1-3 until all devices are divided into groups.
5. Complete division of the devices into groups by selecting Save System Data.

3.8 Maps

The WirelessProfessional software provides the option of integrating maps and positioning installed devices on them. The mounting location of a device can therefore be found quickly when required. The maps must exist in .png, .bmp or .jpg format. The maximum size of the maps is 10 mega pixels. Larger maps cannot be loaded into the WirelessProfessional system.

3.8.1 Integrating Maps

1. Select the **Maps** tab.

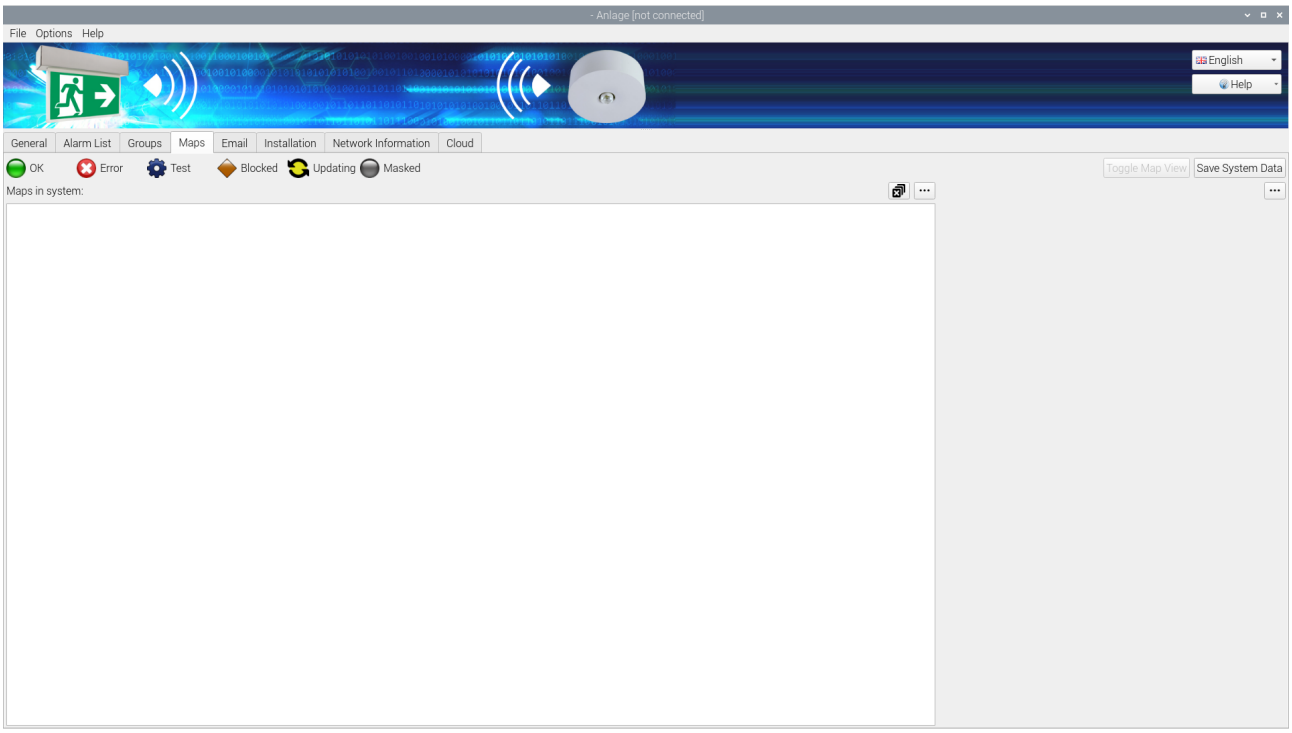


Figure 23: Maps in general

2. Open the context menu of the **Maps in system** area and select **Add New Map**.

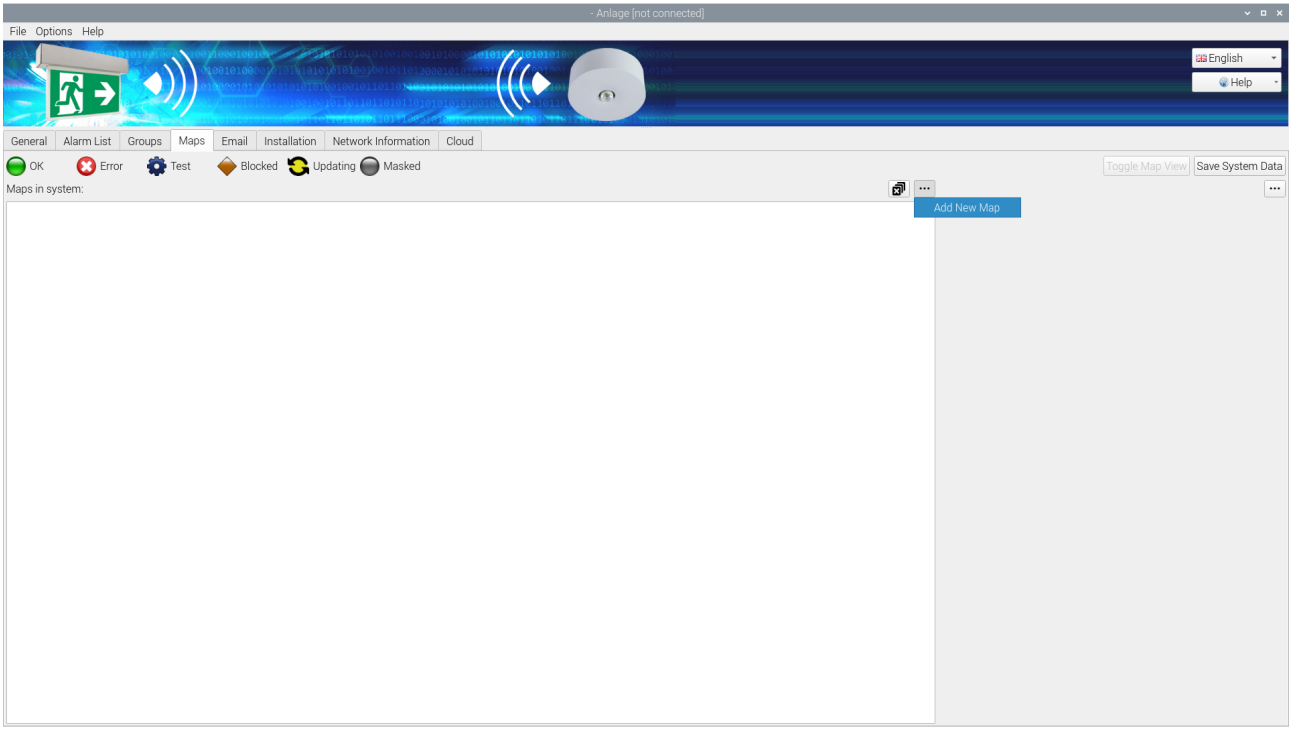


Figure 24: Adding new map

3. Go to the file dialogue for the data carrier on which the maps are located. Highlight the maps you want to add, and confirm the selection by clicking on Open.

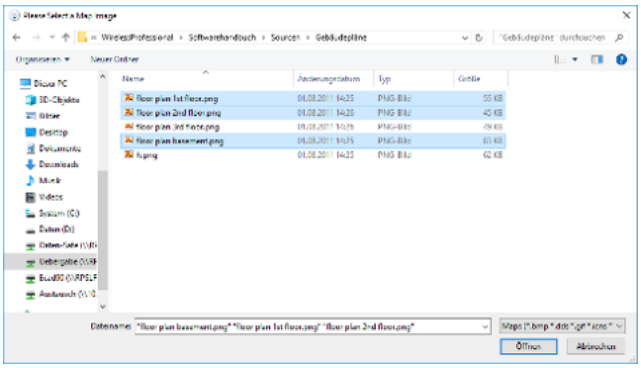


Figure 25: Selecting files

4. Open the context menu of an added map and select **Rename Map <Name>**.

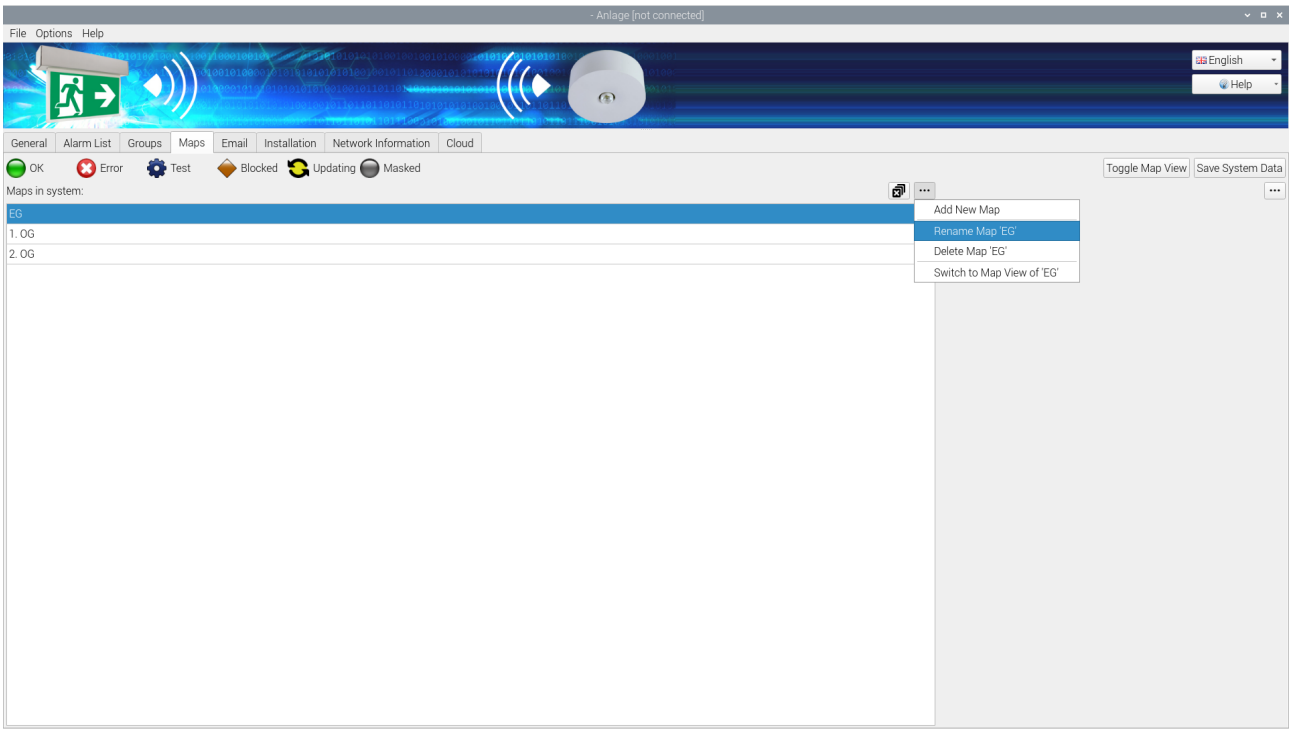


Figure 26: Renaming map

5. Enter a meaningful name for the map and confirm the entry by clicking on OK.
6. Repeat steps 4 and 5 for all maps.

3.8.2 Positioning Devices on the Map

- Select Toggle Map View.

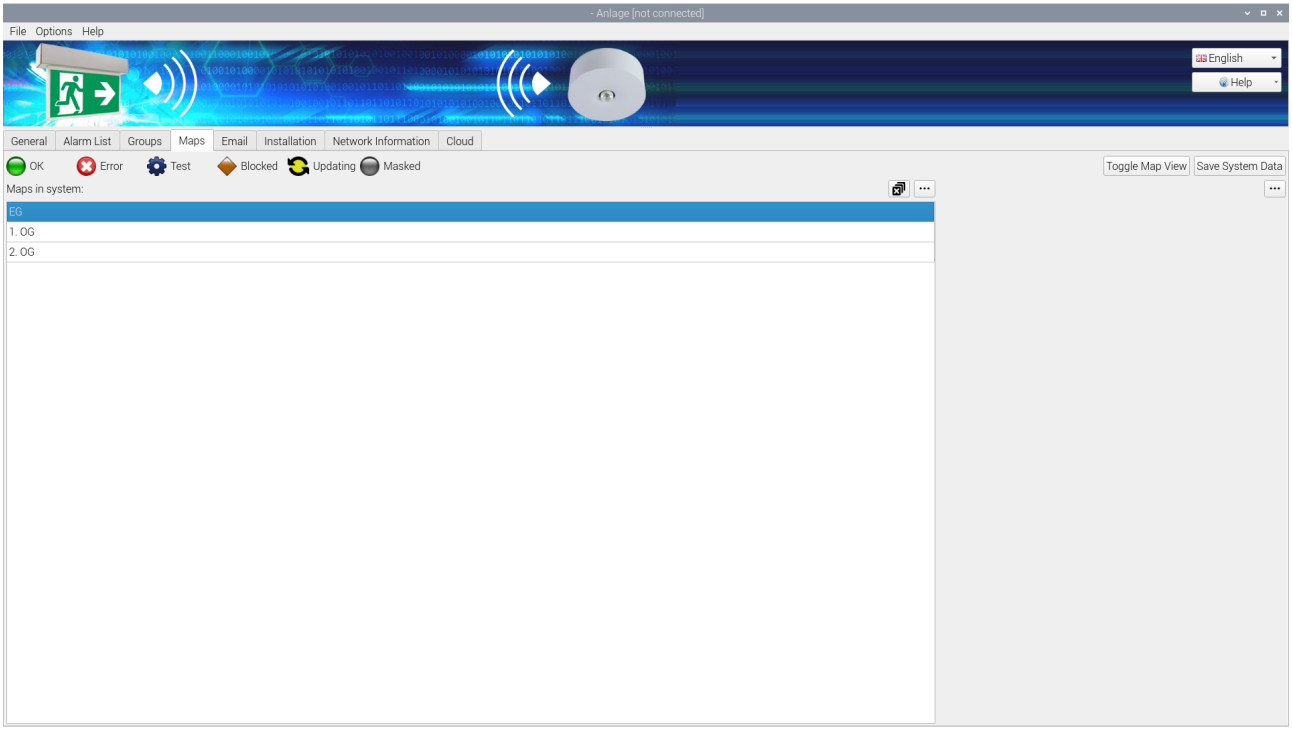


Figure 27: Toggling map view

1. Select the map on which devices are to be positioned from the drop-down selection box.

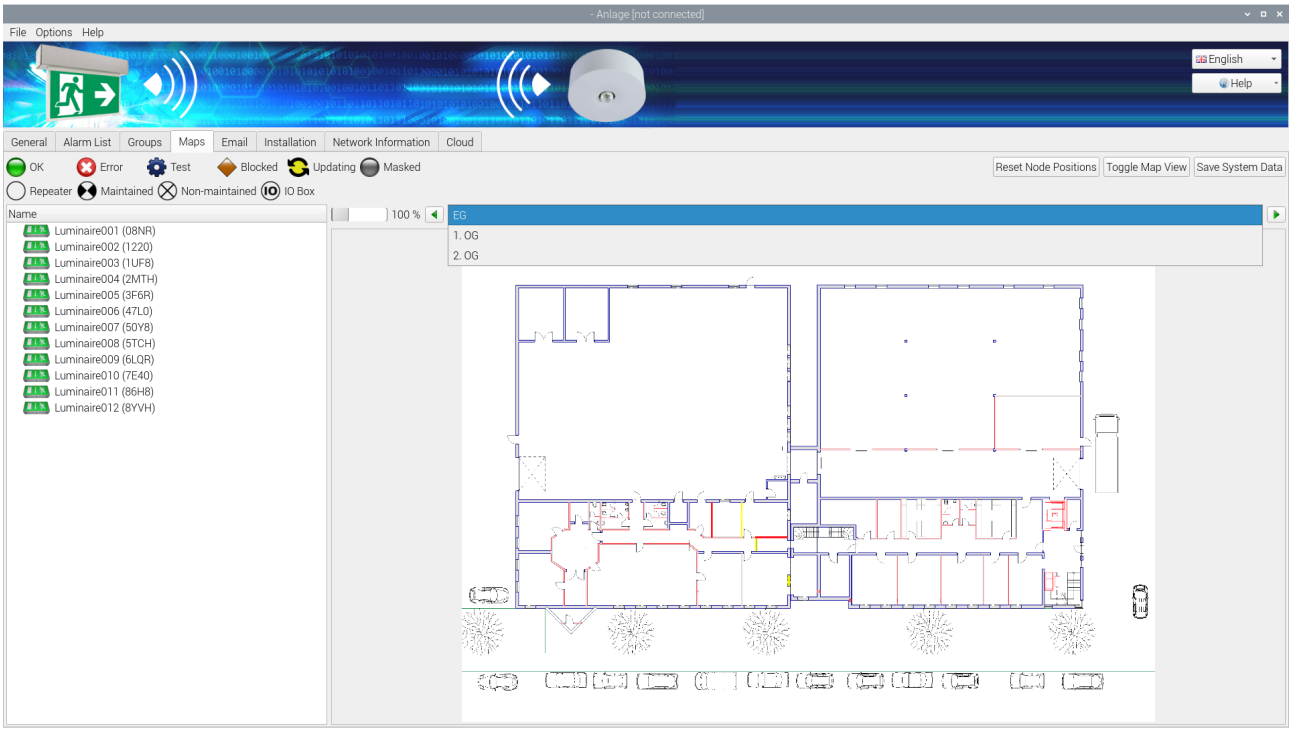


Figure 28: Selecting map

2. Use the slide control to adjust the scale and use the scrollbars below and to the right of the map to select the relevant image section.

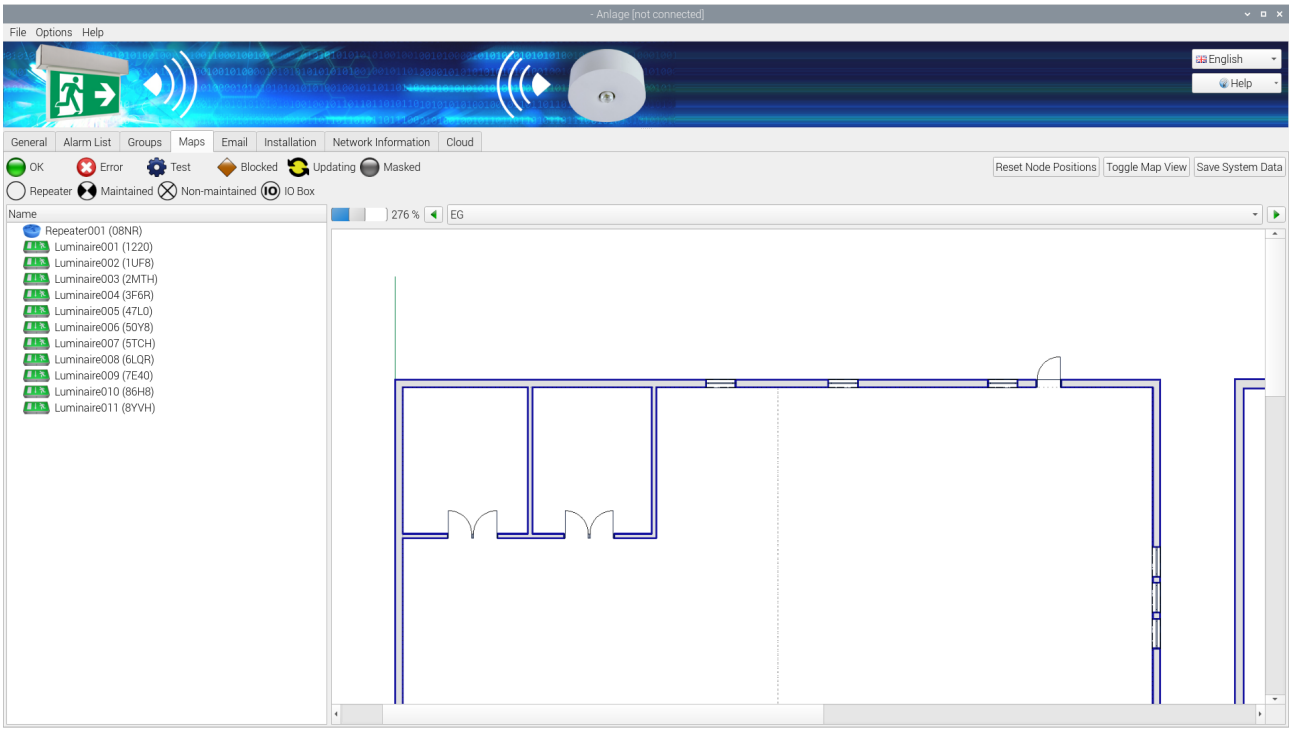


Figure 29: Scaling view

3. Drag the devices from the left-hand area into the map and position them.

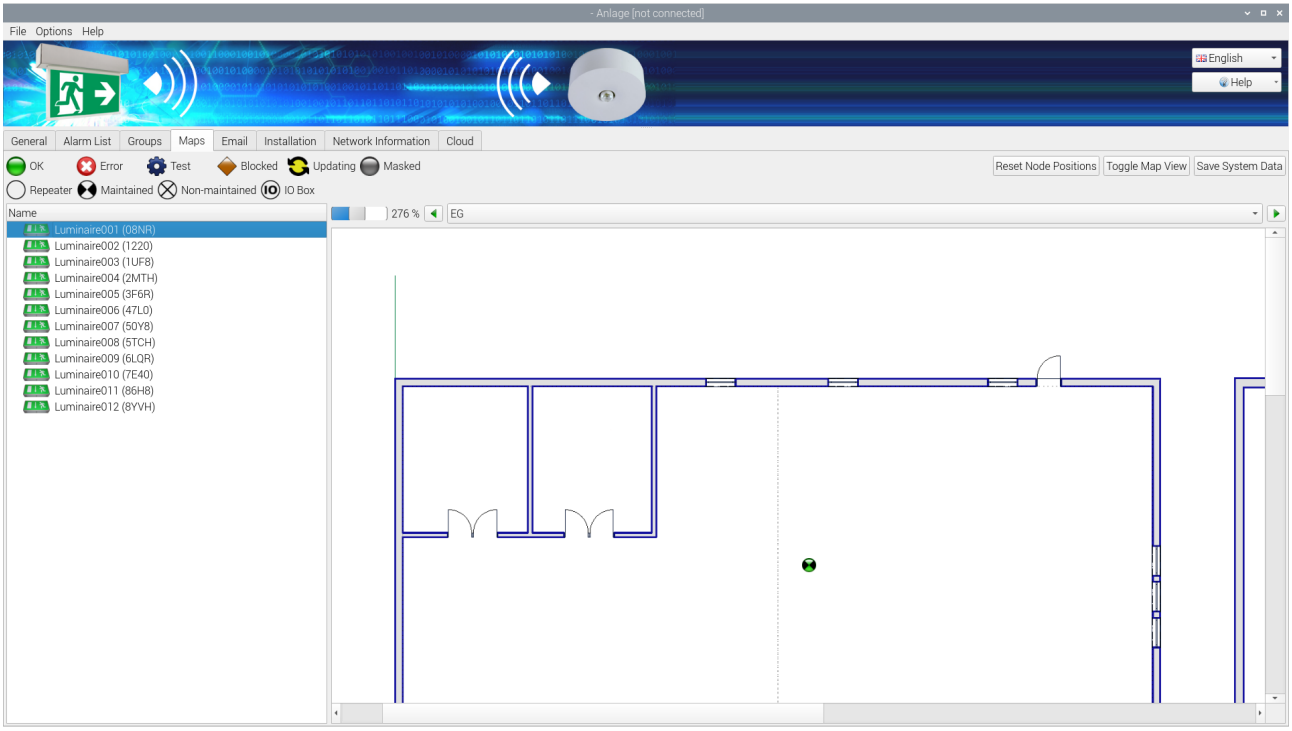


Figure 30: Positioning devices

4. Repeat steps 1-3 until all devices are positioned on the maps.

5. Complete positioning of the devices on the maps by selecting Save System Data.

Note: Each emergency luminaire and/or each device can only be positioned once and only in one map.

Note: We would recommend regularly saving your changes.

3.9 Setting up Automatic Test

- Select the **Installation** tab. Select the **Test** tab from the bottom set of tabs.
- In the **Capacity test** area in the drop-down **Interval** selection box, select the period between two automatic capacity tests for the emergency luminaires. DIN EN 62034 requires a maximum interval of one year between two automatic capacity tests.
- Enter the time at which the capacity test is to start in the **Time** box. Select a time at which the building is not occupied. Alternatively, DIN EN 62034 allows the capacity test to be triggered manually in buildings which may be occupied at any time. In these cases, select **Manually** as the interval.
- In the calendar in the **Start date**box, select the date for the next capacity test. Select a date, which is no more than one year in the future.
- In the **Function test** area, also select an interval and time for the automatic function test. DIN EN 62034 requires a maximum interval of one month between two automatic function tests.
- If you have selected **Weekly** as the interval, in the drop-down **Weekday** selection box, select the day of the week on which the function test is to be carried out.
- Complete the settings by clicking on Save System Data.
- If necessary, please note other valid national provisions or other provisions required by building law relating to capacity and function tests.

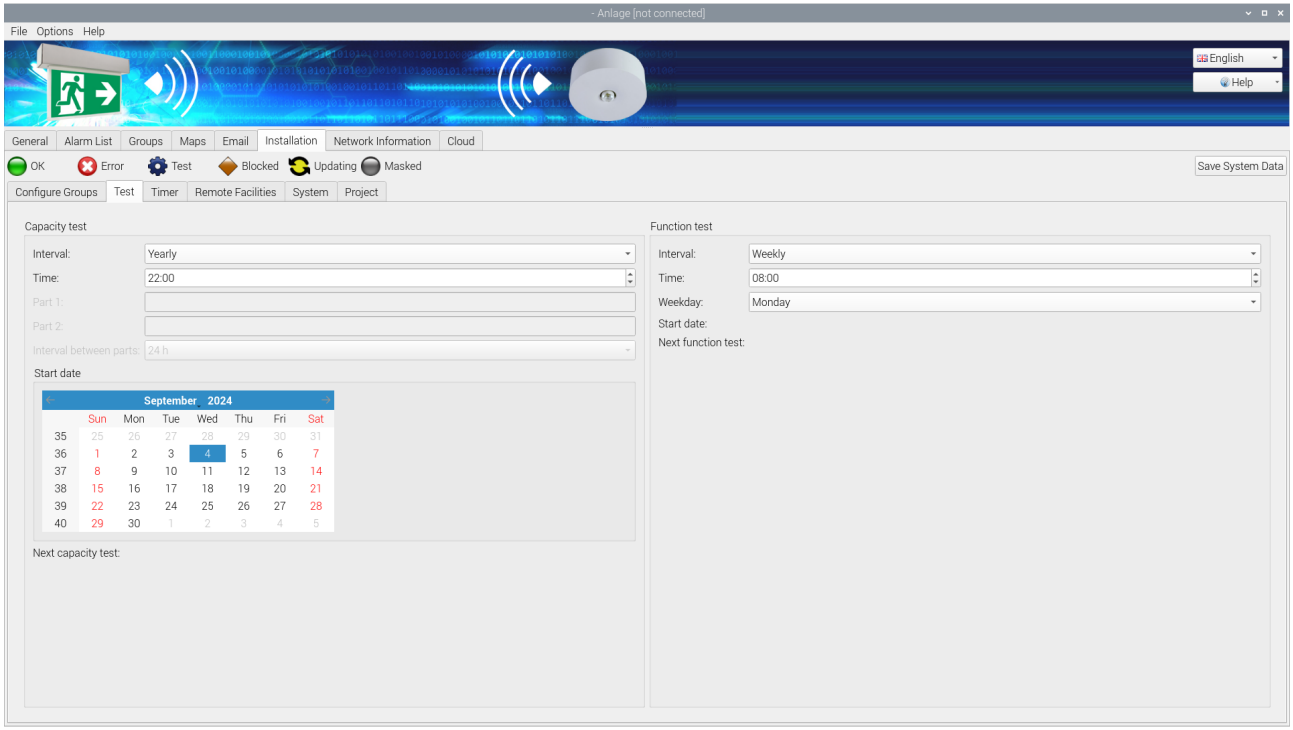


Figure 31: Timer settings

Note: If systems have more than 100 registered luminaires/devices, the function test command is only sent out for 100 luminaires at a time to minimise the amount of wireless traffic. The function test for the next 100 devices starts once the function test of the previous 100 devices is complete.

Note: As explained in Section 2.2, capacity tests are started on the basis of a schedule. Unlike the explanation provided in Section 2.2, the start of the test for an automatic capacity test is only postponed 3 times in every 24h.

3.10 Capacity Test during Commissioning

DIN EN 62034 requires a capacity test over the entire assessment period when commissioning an automatic test system. The batteries of the emergency luminaires must be fully charged (at least 24h, see Section 2.2 and 2.3) for this capacity test.

- Select the **General** tab
- Press the Start Capacity Test button

If the batteries of individual luminaires are exhausted before the capacity test is completed, repeat the process including a full charge (at least 24h).

To complete commissioning, reset the maintenance interval by going to “Help” -> “Maintenance” and clicking on the “Confirm Maintenance” button. The reminder for running maintenance again will start from this time in 365 days.

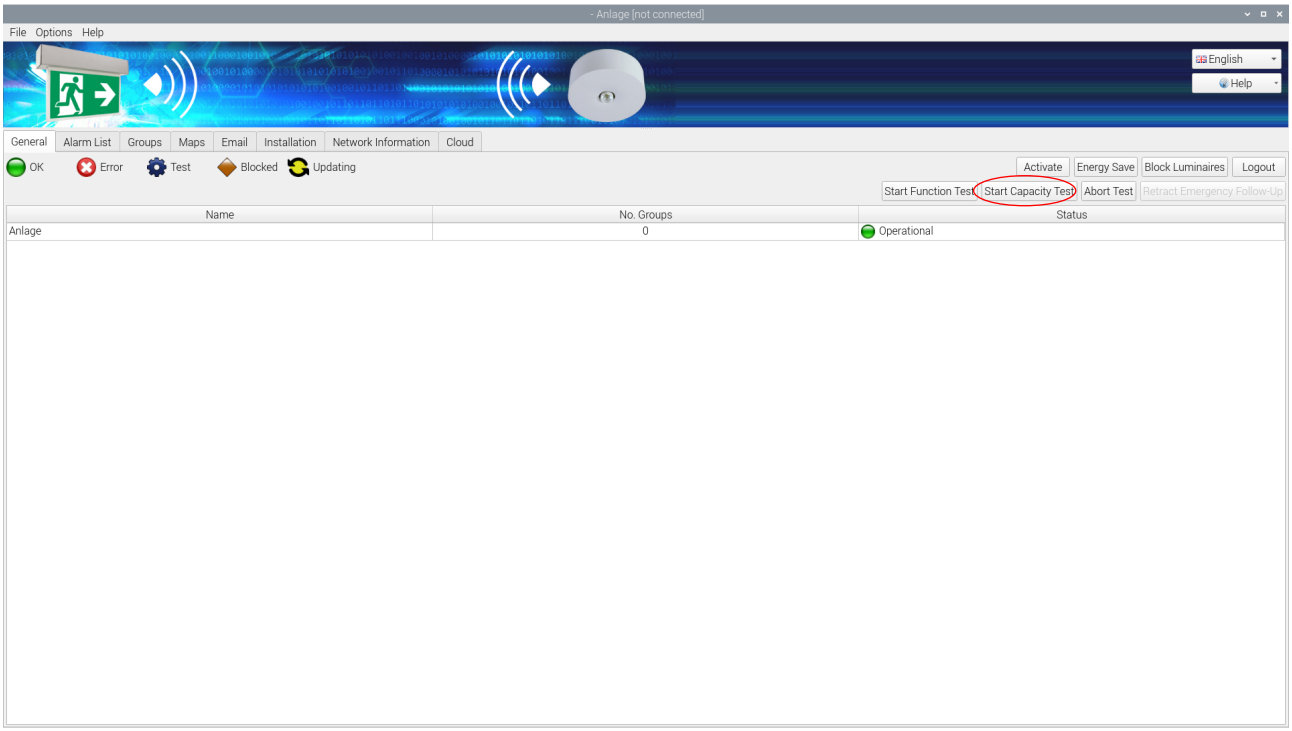


Figure 32: Starting capacity test

4 Software Installation

This section relates to systems supplied without a PC. If systems have been supplied with a PC, the WirelessProfessional software will already be installed on the PC.

4.1 System Requirements

Component	Minimum requirement
Processor	Intel Atom N455 1.6 GHz
RAM	1024 MB DDR3-RAM
Hard disk	32 GB SSD
Display	25.7 cm (10.1") screen size, resolution 1024x600 pixels
Graphics	Intel GMA 3150
Ports	2 x USB 2.0
Operating system	Windows 7/8/10, 32- and 64-bit version

4.2 Installation

- Open the context menu of the **WirelessProfessional_Setup_x.x.exe** file. (**x.x** represents the version number) and select **Run as administrator**.

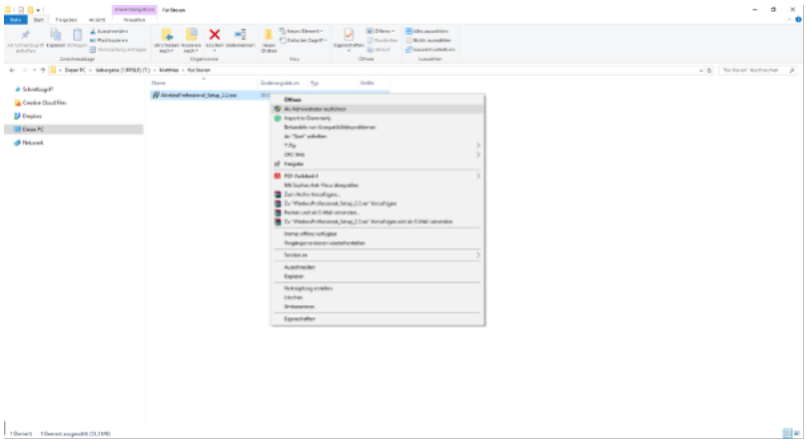


Figure 33: Selecting installation file

- Enter the administrator password in the dialogue box of the user account controller and confirm with Yes.

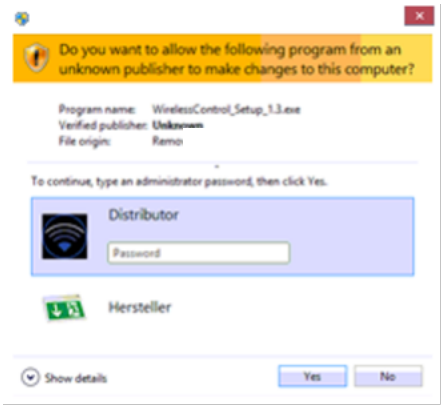


Figure 34: Entering administrator password

- Select the language to be used during the installation process.

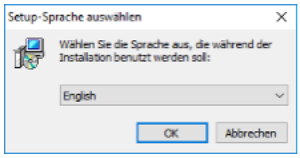


Figure 35: Selecting language

- Select Next in the setup dialogue.

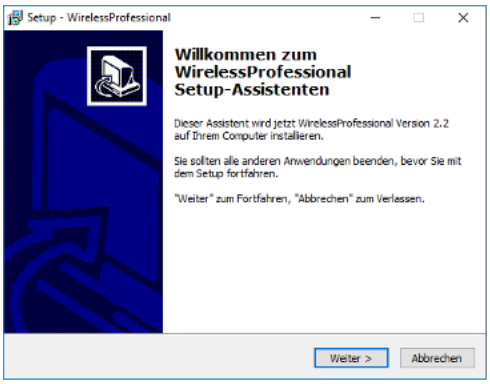


Figure 36: Setup dialogue

- Read the information provided about the installation directory and select Next.

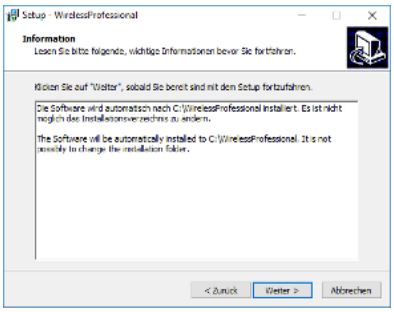


Figure 37: Setup dialogue

- Select a start menu folder for the program links and then select Next.

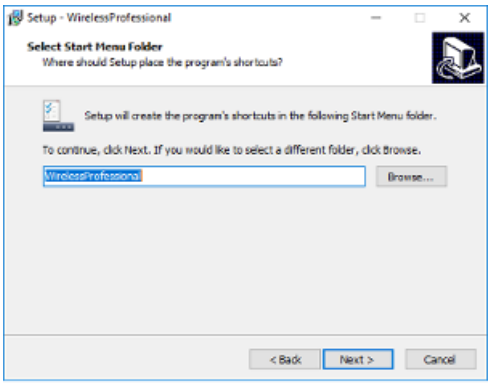


Figure 38: Setup dialogue

- Select whether a desktop symbol is to be created and then select Next.

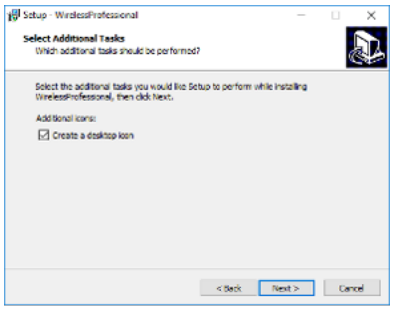


Figure 39: Setup dialogue

- Select Install. The software and the drivers required are installed.

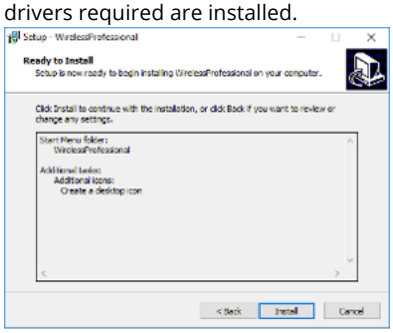


Figure 40: Setup dialogue

- To complete the setup wizards, select Finish. The WirelessProfessional software is launched.

Figure 41: Completing installation

Note: The CPC Viewer and CPC File manager programs are needed if remote access to a remote system is to be set up.

5 Removing Devices from the WirelessProfessional System

This section explains how devices are removed from the WirelessProfessional system.
You must be logged in to the WirelessProfessional software as an installer in order to remove devices. Then go to the **Installation** tab and call up the installation view for the WirelessProfessional software.

One or more devices or a group of devices can be removed from the system. Highlight the device or group by tapping on it. Once the selection has been made, use the context menu button to select the context menu and then select **Delete Luminaire 'NAME'**. Alternatively, the devices or groups can be dragged & dropped out of the **Registered nodes** area into the **Unknown nodes** area.

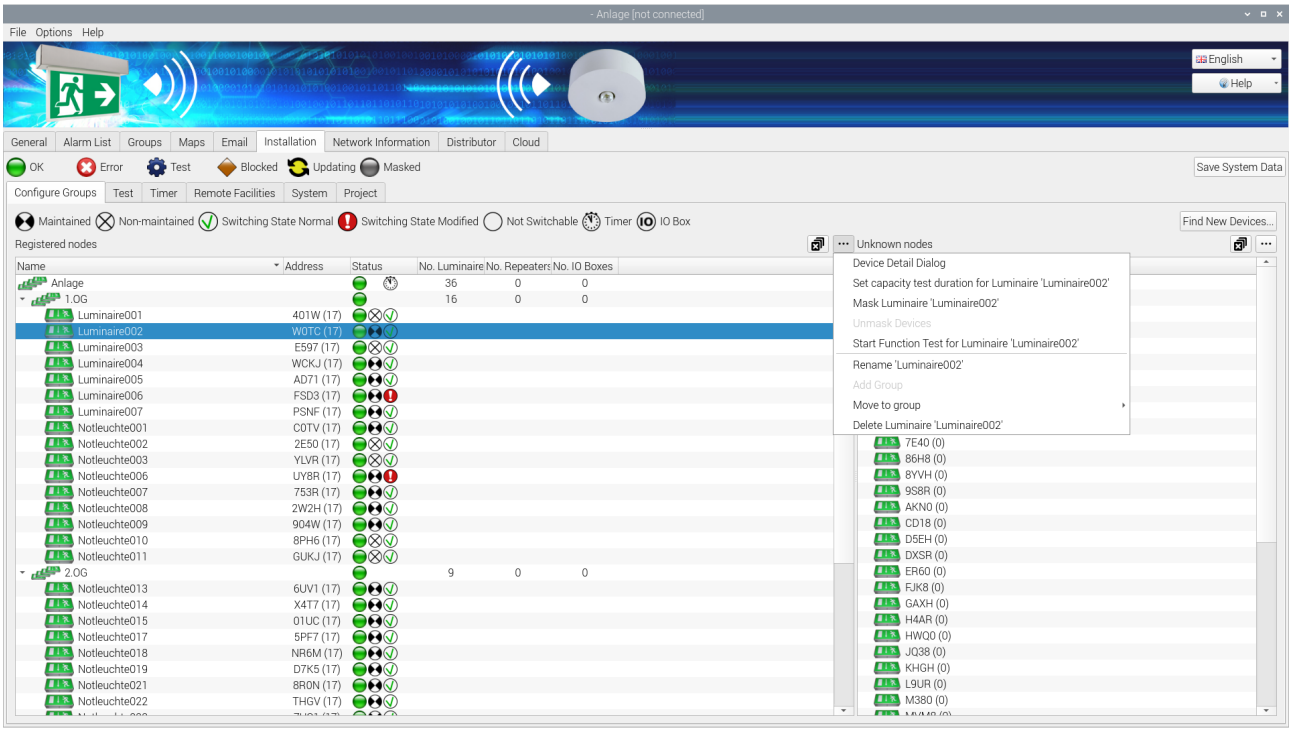


Figure 42 Registered nodes context menu

When devices are removed from the **Registered nodes** area, a specific de-association command is issued wirelessly for each device by the WirelessProfessional software. When the de-association command is received by the device, the system ID saved in the device is reset, meaning that the device is no longer part of the WirelessProfessional system. Resetting the system ID resets the device to the initial configuration.
The address of the removed devices is shown in the **Unknown nodes** area.

When removing devices, a distinction is made between whether the device can still be accessed using wireless technology or whether the wireless connection has been lost.

Note: If a device is removed from the WirelessProfessional software, the test history for this device is closed. If the device is re-assigned, the WirelessProfessional software starts a new test history for this device. Existing histories are not continued.

5.1 Removing Devices that can be Accessed using Wireless Methods

Once devices have been removed from the WirelessProfessional software as described above, the devices can be disconnected from the power supply. When the power supply is disconnected, devices with an emergency light function are powered from the battery. Disconnecting the battery from the electronics stops the emergency mode.

Once the device has been fully de-energised for around 15 minutes, the device's address disappears from the **Unknown nodes** area.

This process should be used if devices are to be removed and reused. When the device is started up again, its address will be displayed in the **Unknown nodes** area in the WirelessProfessional software.

Note: The WirelessProfessional software sends a de-association command to the selected devices. The recipient does not confirm that this command has been received. The WirelessProfessional software therefore has no means of checking whether the command is received and processed in the devices.

Note: De-associated devices start by issuing association requests. When removing several devices or when removing a group of luminaires, instances may therefore arise in which not all devices receive the de-association command.

5.2 Removing Devices that cannot be Accessed using Wireless Methods

If a device cannot be accessed using wireless methods and if it is removed from the WirelessProfessional software in this state, then the device does not receive the de-association command issued by the WirelessProfessional software. As a result, the device itself is still considered to be a node registered on the WirelessProfessional software.

The process for removing devices that cannot be accessed using wireless methods should be used with defective devices, for example, because they are not typically started up again.

When the device is started up again, its address will not be displayed in the **Unknown nodes** area in the WirelessProfessional software.

Note: If this device is started up again within the wireless range of the WirelessProfessional system from which it was previously removed, this may produce incorrect status messages in the WirelessProfessional software and potentially result in devices behaving incorrectly.

5.3 Resetting the System ID of Previously Removed Devices at a Later Date

If the system ID was not reset when removing the device from the WirelessProfessional software, there is a way of issuing a specific de-association command for the device wirelessly via the WirelessProfessional software.
For the system ID reset in the device to work, the device must be connected to the power supply. The USB coordinator must also have wireless access to the device and the 4-digit device address must be known.
You must be logged in to the WirelessProfessional software as an installer. Then go to the **Installation** tab and call up the installation view for the WirelessProfessional software.
In the context menu in the **Unknown nodes** area, select **Add New Luminaire**.

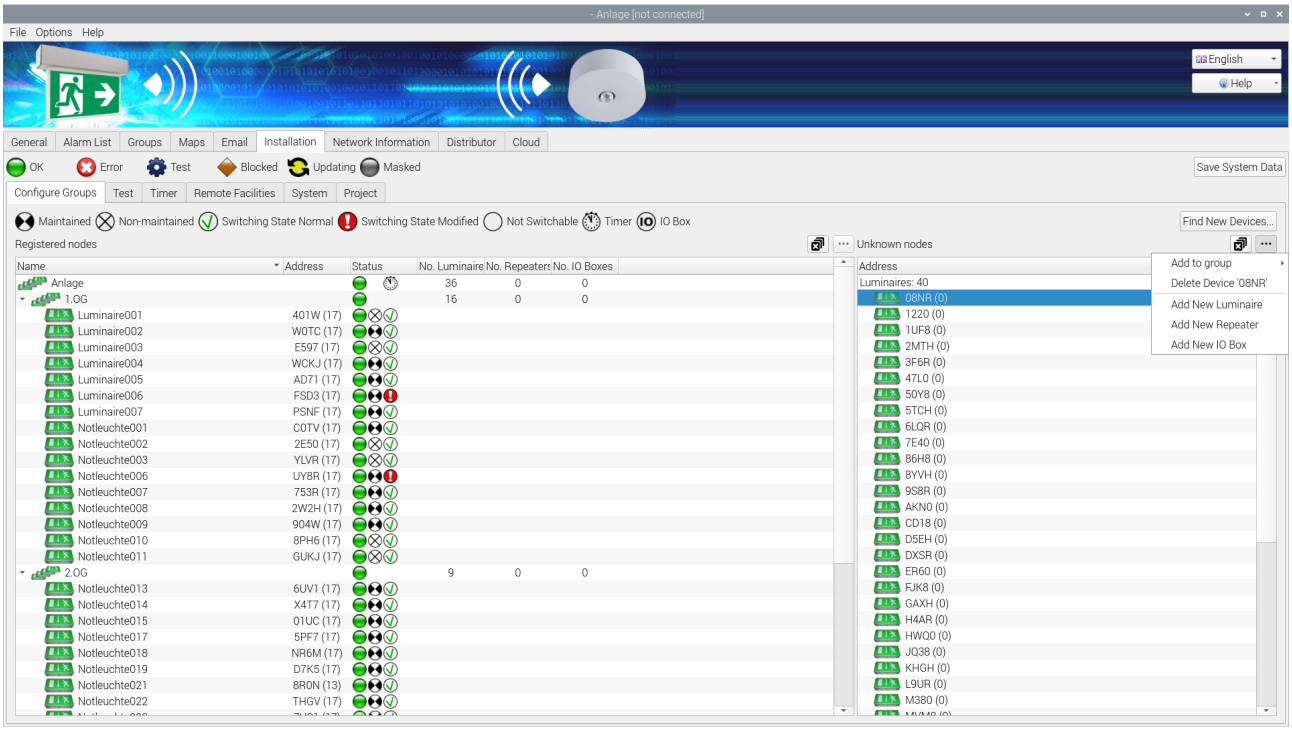


Figure 43 Unknown nodes context menu

A window entitled **Address for the New Device** opens. The device's 4-digit address at which the system ID is to be reset is entered in the text box.

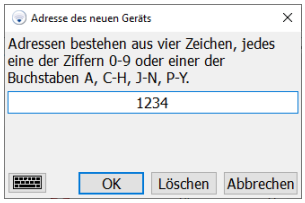


Figure 44 Entering address for the new device

Once the 4-digit device address has been entered, confirm by pressing the Delete button. The WirelessProfessional software now issues a specific de-association command to the device. During this process, the device is listed as **TempNode[Address]** in the **Registered nodes** area and removed again automatically once the process is complete.

Note: If there is a lot of wireless traffic, you may need to press the Delete button several times.

Close the **Address for the New Device** window by pressing the Close button. If the system ID reset was successful, the 4-digit device address will appear in the **Unknown nodes** area.

Note: If the window is closed using the OK button, the 4-digit device address is written to the **Unknown nodes** area. You cannot then check whether the system ID has been reset successfully.

6 Masking Devices on the WirelessProfessional System

This section explains how the function for masking devices on the WirelessProfessional system can be used.
If a device is masked in the WirelessProfessional software, this means that pending error messages for this device are no longer displayed in the WirelessProfessional software. The masked device is not checked during the WirelessProfessional system's function or capacity test.

Masking devices is a function in the WirelessProfessional software, which can be used to take devices out of operation in a planned manner for a limited period, e.g. for restoration or alteration work.
When devices are masked and not removed from the WirelessProfessional software,

- their test history is retained
- the WirelessProfessional software still knows the 4-digit wireless address
- a space is reserved for the masked device in the address space
- group arrangements and map assignments are also retained

In order to illustrate how the WirelessProfessional software's masking function works in a relevant real-life situation, let's take the example of an installation with a total of 100 devices registered to the WirelessProfessional software.
During the course of alteration work, 10 devices are taken out of operation or disconnected from the mains voltage.
Since 10 devices are taken out of operation, this will result in the WirelessProfessional software issuing an event device error and going into fault mode. The 10 devices are therefore masked, resulting in the WirelessProfessional software again reporting an error-free system status.
While the 10 devices are out of operation, 5 new devices are registered on the WirelessProfessional software.
There are now 105 devices registered on the WirelessProfessional software. Of the 105 devices, 10 are masked, which means that the WirelessProfessional software is monitoring and checking 95 devices.
Once the alteration work is complete, the 10 devices, which were taken out of operation, are switched on again and the masking in the WirelessProfessional software is cancelled, meaning that 105 devices are now being monitored and checked.

Note: The WirelessProfessional software also attempts to associate the masked devices. If they cannot be accessed wirelessly, communication errors may occur and slow down checking. The process of re-associating devices can be started by e.g. changing a coordinator or receiving a "Reconnect All Devices" command from a neighbouring system.

7 Cloud Connection

This section explains how to connect WirelessProfessional systems to the LIGHTLINX Internet portal at RP-Technik (www.light-linx.com), (hereinafter referred to as “cloud”). We will describe how to set up cloud access, the significance of the monitoring symbols and show interactions with the cloud.

From software version 3.0 onwards, the WirelessProfessional software provides scope for connecting to the cloud.[1]
The cloud connection option turns the WirelessProfessional control centre into an IoT device that can be addressed directly.

The WirelessProfessional software’s cloud connection is not activated upon delivery.

7.1 Activating Cloud

Select the **Cloud** tab and press Activate Cloud to activate the cloud connection.
When cloud connection is activated, the cloud symbol appears in the form of a cloud in the top banner on the left next to the language selection and Help menu.
The browser set as default is opened and shows the cloud log-in page. A user registered for the cloud needs to log in to the browser and agree to the conditions of use and privacy policy (this only has to be done once). Once log-in is complete, the Browser tab in which the user logged in, prompts the user to close this tab.
Cloud connection is then complete.
The user who logged into the cloud can now see and manage the project in the cloud.

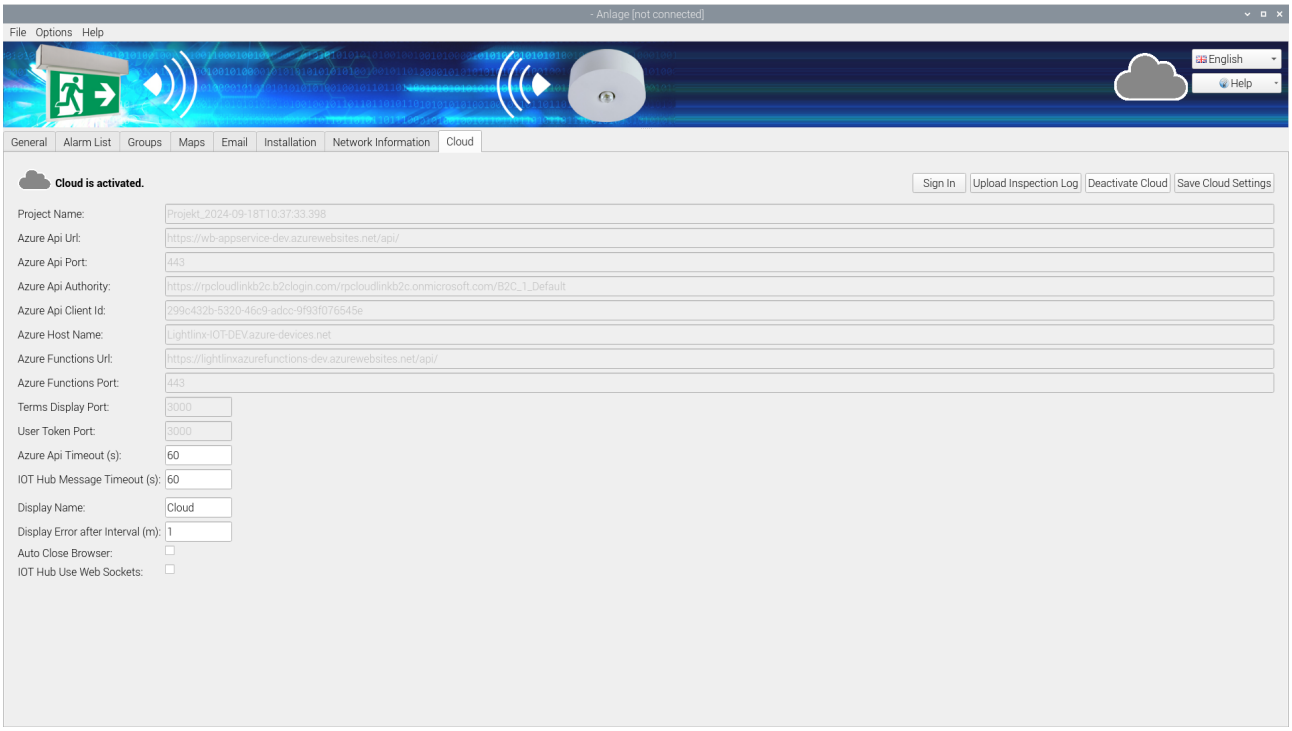


Figure 45 Cloud view

The WirelessProfessional control centre will now transfer status information to the cloud on a regular basis. From this point on, there is no need for the user to log in again because at the time of registration in the cloud, the WirelessProfessional control centre is given permanent access to the cloud, allowing it to upload status information.

Note: Because a personalised login is undertaken when activating the cloud connection, the WirelessProfessional software receives extended rights for a limited period (24 hours). These are needed not only to log the control centre onto the cloud but also for certain additional actions (such as cloud synchronisation when adding/deleting devices or maps). If these actions are undertaken after this time window has lapsed, another personalised login will be needed. In this case, the WirelessProfessional software displays a note in the top right on the relevant tab view informing the user that a personalised login is needed, see Figure 46 Installation area, personalised cloud login required. Log in to the cloud as described in Section 7.3.

[1] Cloud connections are only available for selected distributions

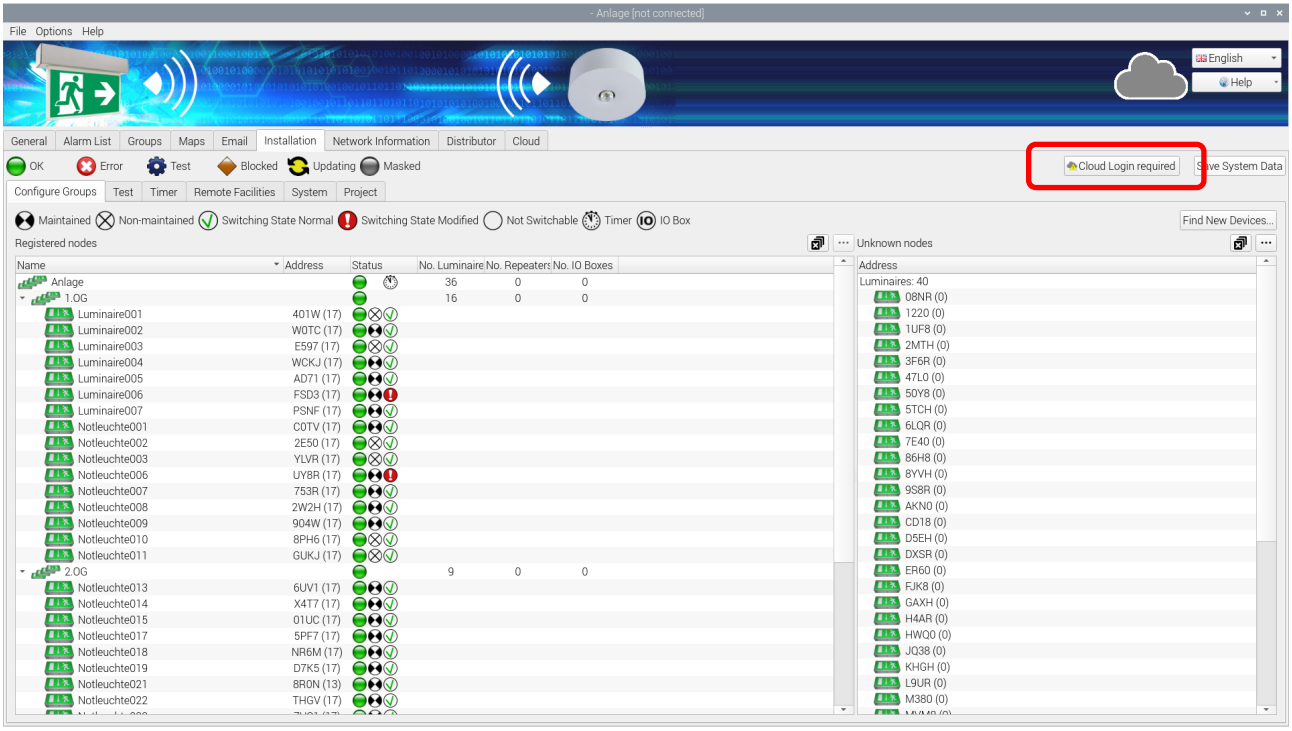


Figure 46 Installation area, personalised cloud login required

Note: When the cloud connection is activated, the WirelessProfessional emergency lighting system can be seen as a project in the cloud account of the user, whose personalised login is being used. If a new personalised login is required at a later point, the user in question must have cloud access to the project at that point in time. This means that it either needs to be the same user as before or a user who has previously been given access to the project by means of sharing or handover. If the user does not have access to the project, an error message is displayed.

Note: To view information about the current cloud status, click on the cloud symbol in the top banner.

Note: If the Cloud tab is not appearing despite having logged in with the installer password, then cloud connection is not supported for this distribution.

7.2 Deactivating Cloud

Select the **Cloud** tab and press Deactivate Cloud to deactivate the cloud connection.
This means that no more uploads will be made to the cloud. The cloud symbol is also no longer shown in the top banner.
The cloud access created internally for data uploads during the previous cloud activation is retained and is used again when the cloud is reactivated, meaning that a personalised login is not required to (re)activate the cloud connection.

7.3 Signing In

Select the **Cloud** tab and press Sign In to log into the device for 24h with your personalised cloud login.
Once the button has been pressed, the default web browser is opened and shows the cloud login page. When you sign in with a personalised login, the WirelessProfessional software receives extended rights for a limited period (24 hours). These are needed for certain additional actions. The WirelessProfessional software indicates when a personalised login is required.

Note: If there are cloud upload or download errors present, it may take up to 1 minute for the web browser to launch.

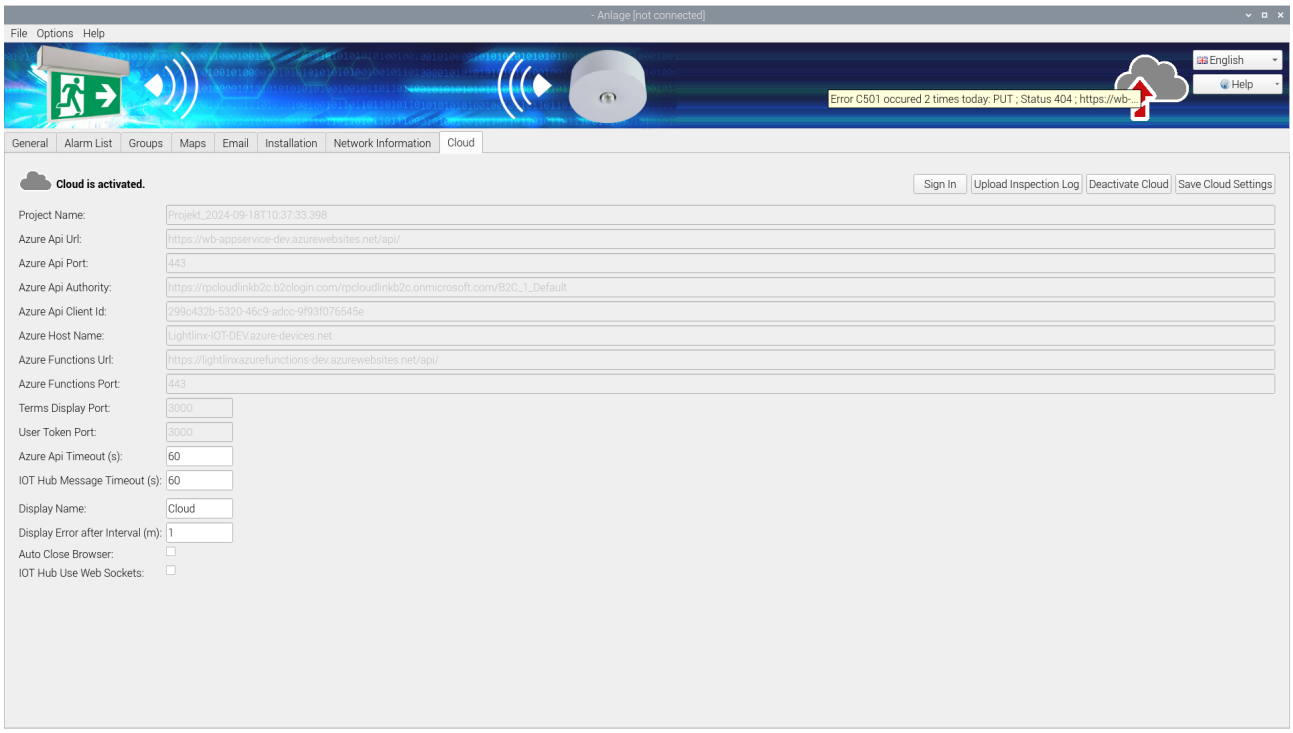


Figure 47 Cloud view indicating errors

If the personalised login does not have access rights for the project, error C501 is issued. Error C501 is reset by the 24h timeout for automatically logging out of the cloud, by issuing access rights to the cloud project or by using a personalised cloud login *with* access rights to the project.

7.4 Uploading Inspection Log

Select the **Cloud** tab and press Upload Inspection Log to upload the current status of the inspection log files to the cloud. This does not require a personalised cloud login.
When the button is pressed, the version of the inspection log file present in the cloud is replaced by the version from the Wireless-Professional control centre.
An automatic upload takes place at the end of every capacity test.
If the file size limit of the inspection log file has been reached and a new inspection log file is created, the now inactive inspection log file is uploaded automatically.

7.5 Cloud Status Display

When the cloud connection is activated, the graphic cloud status box is activated in the WirelessProfessional software's top banner. The following symbols are shown here depending on any current communication traffic with the cloud.

Symbol	Meaning
	Cloud connection active, no uploads or download in progress
	Cloud connection fault, no uploads or download in progress
	Cloud connection active, download from the cloud in progress
	Cloud connection active, the last download from the cloud caused an error
	Cloud connection active, upload to the cloud in progress
	Cloud connection active, the last upload to the cloud caused an error
	Cloud connection active, upload and download in progress
	Cloud connection active, the last upload and download caused an error

Table 2: Cloud status symbols

7.6 Classes of Error Code

Various errors relating to the cloud connection may arise. These can be grouped into classes of error code as shown in Table 3 below.

Error code ID	Meaning
C0xx	External error
C1xx	Log entries and info
C2xx	General error on the part of the control centre upon contact with the cloud
C3xx	General error on the part of the cloud upon contact with the cloud
C4xx	Authentication/log-in error
C5xx	LIGHTLINX web API error

Table 3 Cloud error classes

8 Software Operation Reference

8.1 Symbols

This section explains the symbols used in the WirelessProfessional software.
Table 4 lists the colour symbols for operating statuses. The priority of a status means that the status with the highest priority is displayed for a device or group for which several statuses apply. For example, the blue colour symbol (emergency luminaire is being tested) would be displayed for a group containing an emergency luminaire with a battery error and an emergency luminaire which is being tested because its priority is higher than that of the red symbol (error message). One exception from this is communication errors, which arise during a test: Should they arise, a red colour symbol is displayed for the device and/or group in question rather than the blue symbol to draw attention to the error.

Symbol		Priority	Meaning
	Yellow	5	Status is being updated
	Blue	4	Emergency luminaire(s) is(are) being tested
	Red	3[1]	Error message(s)
	Orange	2	Emergency luminaire(s) in remote inhibiting mode
	Green	1	No error message
	Grey	-	Emergency luminaire(s) is(are) masked

[1] Communication errors, which arise during a test, are displayed with a higher priority than the test.

Table 4: Colour symbols

8.2 Status Symbols

Symbol	Meaning
	Maintained emergency luminaire
	Non-maintained emergency luminaire
	The switching status of the emergency luminaire corresponds to its operating mode (switched-on emergency luminaire in maintained operation and/or switched-off emergency luminaire in non-maintained operation)
	The switching status of the emergency luminaire does not correspond to its operating mode (switched-off emergency luminaire in maintained operation and/or switched-on emergency luminaire in non-maintained operation)
IO	Group/system is linked to the input/output of an IO box

Table 5: Status symbols

8.3 Operating Statuses

Table 5 shows an overview of the special operating statuses of a WirelessProfessional system. Further explanations about the operating statuses can be found in the glossary (Section 13).

Operating status	Non-maintained emergency luminaires, switchable	Maintained emergency luminaires, switchable	Function/capacity test possible	Emergency mode possible
Energy save	Off	Off	Yes	Yes
Activate	Off[1]	On	Yes	Yes
Fire alarm	On	On	No	Yes
Block emergency luminaires	Off	On	No	No

[1]Switchable non-maintained emergency luminaires are not switched by the **Activate** function. Switched-off emergency luminaires remain switched off and switched-on emergency luminaires remain switched on.

Table 6: Operating statuses

8.4 Status Messages

Table 7 lists the status messages for the WirelessProfessional software and explains the meaning of them.

Status message	Meaning
System is being booted	The system is checking that all devices can be reached
Update	The status of devices is being changed
Device not associated	Device installation in the system is not yet complete
Block x emergency luminaires	x emergency luminaires are still to be put into remote inhibiting mode
Unblock x emergency luminaires	Remote inhibiting mode still needs to be terminated for x emergency luminaires
Fire alarm status expiring	Once the fire alarm overrun time has expired, the emergency luminaires are switched off again
Operational	At least one switchable emergency luminaire is switched on
Stand-by operation	All switchable emergency luminaires are switched off or the system only consists of luminaires which cannot be switched
Error on x devices	Error messages for x devices
Fire alarm status activated by IO box	Fire alarm (signal at fire alarm input of IO box enabled). All switchable emergency luminaires are switched on.
Fire alarm status is in overrun time	Fire alarm terminated (signal at fire alarm input of IO box no longer enabled). The system is in fire alarm overrun time. Switchable emergency luminaires remain switched on until end of overrun time.
Start test on x devices	Testing of x devices is being started
Inspection	Status message during a test
End test on x devices	The test is completed and the test results are being transferred from the emergency luminaires
Capacity test postponed on x devices[2]	The test could not be started on x so there is a delay before attempting to start it again.
x emergency luminaires are blocked	x emergency luminaires are in remote inhibiting mode

Table 7: Status messages

[2] Manual capacity test or automatic capacity test

8.5 Error Messages

Table 8 lists the error messages for the WirelessProfessional software and explains the meaning of them.

Error message	Meaning	Possible cause
Invalid device	A device is responding with an unknown type identification	Device firmware is more up-to-date than WirelessProfessional software
Connection lost	The radio connection to a device is interrupted	Device is in emergency mode Fault in radio connection to device
Battery error	The battery voltage has been outside the tolerance range for 1h	Battery not connected Incorrect battery connected Battery has suffered excessive discharge Battery defective
Last test* failed: Connection error	The radio connection was interrupted during the test or once the test was completed	Fault in radio connection to emergency luminaire
Last test* failed: Luminaire fault: test still running	The luminaire is still being tested at the point at which the WirelessProfessional software accesses the test result	The luminaire is checking the full autonomy time while a 2/3 test has been started in the WirelessProfessional software.
Last test* failed: Luminaire fault: no test result	The wireless module was not able to read a test result from the luminaire	Fault in connection between wireless module and luminaire electronics
Last test* failed: Battery error	Battery error during the test	Battery not connected Incorrect battery connected Battery has suffered excessive discharge Battery defective
Last test* failed: Illuminant error	Illuminant error during the test	Illuminant not connected Illuminant defective Switch device defective Illuminant current too low
Last test* failed: Not charged for long enough	A capacity test cannot be carried out because the luminaire had not been charged for long enough	Luminaire connected before less than 24h or recently experienced power supply failure
Last test* failed: Test already running	A test cannot be started because there is already a test running	An attempt was made to start another test even though a test is already. Multiple attempted starts are also possible via the timer.
Last test* failed: Not fully charged	A capacity test cannot be carried out because the luminaire had not been charged for long enough	A luminaire with processor-controlled charging is currently charging the battery – e.g. following recent power supply failure
Last test* failed: Recent capacity test	The luminaires are in the recharge phase following a capacity test	An attempt was made to start a function test in the recharge phase
Last test* failed: Not associated	Association to luminaire lost	The luminaire was not associated with the system at the start of the test
Last test* failed: Fire alarm status enabled		A test was started while in the fire alarm status (first status emergency mode)
Last test* failed: Not performed	The test was not performed on this luminaire.	The luminaire was masked or invalid when the test was started. The luminaire is part of a group of luminaires that was to perform a test, but the test for this group was cancelled before the test for this luminaire was started.

Table 8: Error messages of the WirelessProfessional system

*) – Function or capacity test

8.6 User Levels

The rights for accessing the WirelessProfessional software functions are split into several user levels.
Table 9 provides an overview of the user levels and their access rights. The **Facility Manager**, **Installer** and **Distributor** user levels are password-protected to prevent unauthorised use. The WirelessProfessional software launches in the **Anyone** user level.

User level	Access rights
Anyone	Read-only, no changes can be made
Facility manager	Switch devices, trigger function/capacity tests
Installer	Install devices, configure groups and automatic tests, integrate maps, reset facility manager password
Distributor	Define maintenance intervals, reset installer password, change logo

Table 9: User levels of WirelessProfessional software

8.7 "General" View

You access the **General** view by selecting the **General** tab.
The system name, number of groups and system status are displayed in the **General** view. Figure 48 shows a screenshot of the **General** view for the **Facility Manager** or **Installer** user level. The buttons and their functions do not appear when in the **Anyone** user level. Section 8.2 explains the meaning of the symbols used in the Status column. If there are any active error messages (red colour symbol), the **Alarm List** view can be opened by clicking or tapping on the red colour symbol. The **Groups** view can be opened by clicking or tapping in the **Groups** column.

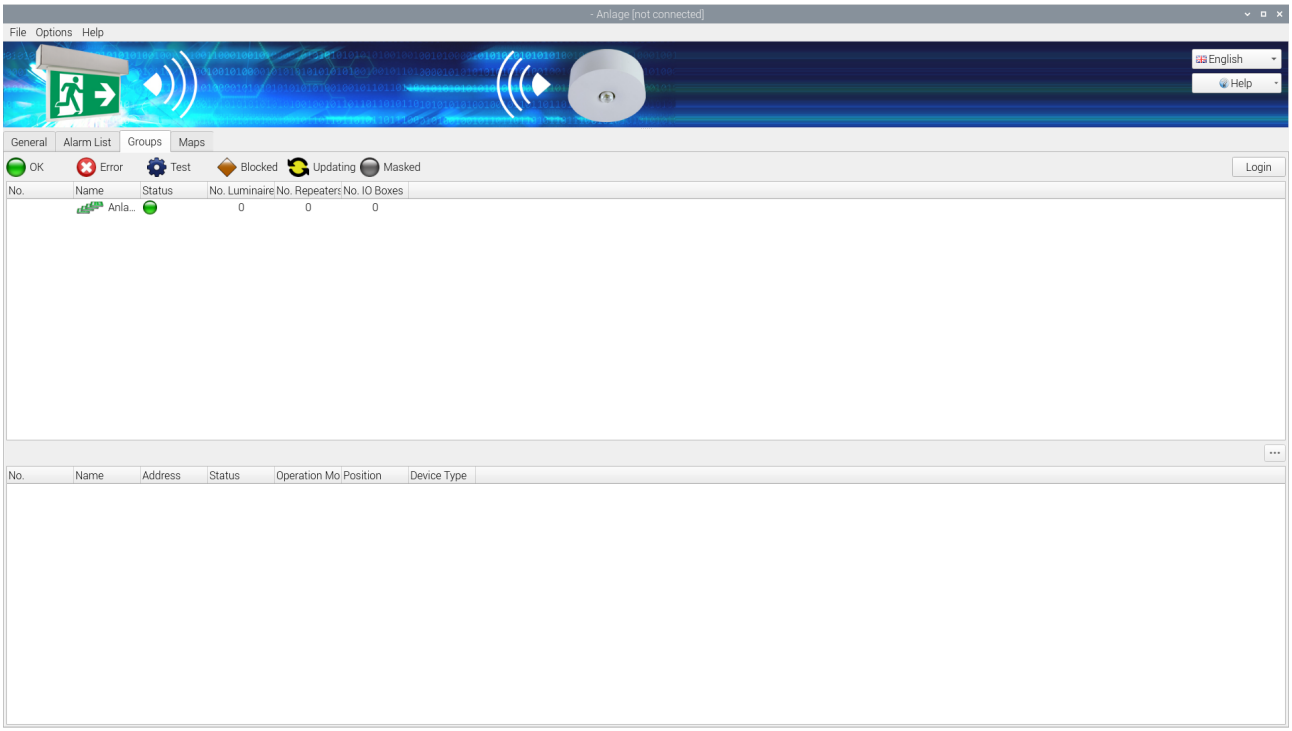


Figure 48: General view, facility manager and installer user levels

The functions listed in Table 10 can be performed using the buttons in the **General** view.

Button	Function	User level
Activate	Switches on all switchable maintained emergency luminaires	Facility manager, installer
Energy Save	Switches off all switchable and switched-on emergency luminaires	Facility manager, installer
Block Emergency Luminaires	Puts all emergency luminaires into remote inhibiting mode	Facility manager, installer
Logout	Resets the user level to **Anyone**	Facility manager, installer
Start Function Test	Starts a function test for all emergency luminaires	Facility manager, installer
Start Capacity Test	Starts a capacity test for all emergency luminaires	Facility manager, installer
Abort Test	Aborts the current test. Any function tests currently active at this time are completed.	Facility manager, installer
Reset Fire Alarm Overrun Time	Ends the overrun time after a fire alarm. The minimum overrun time is 10 minutes. This button is only enabled if a fire alarm has previously been registered and the emergency luminaires are in the overrun time.	Facility manager, installer

Table 10: Functions of the **General** view

Note: When you log out manually, you will be asked whether you want to save the system. When you log out automatically, you are not asked this.

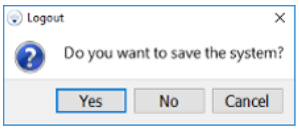


Figure 49: Save system dialogue

8.8 "Alarm List" View

You access the **Alarm List** view by selecting the **Alarm List** tab.
The **Alarm List** view displays all devices in the system reporting an error. The defective devices are arranged by group. The name of the device as well as its address and status (as colour symbol and in plain text) are displayed. If a device is reporting several errors at the same time, this is shown in plain text. Section 5.1 explains the meaning of the symbols used in the Status column. Section 8.5 contains an overview of the possible error messages. Figure 50 shows a screenshot of the Alarm List view for the **Facility Manager** or **Installer** user level. Not all buttons are available when in the **Anyone** user level.

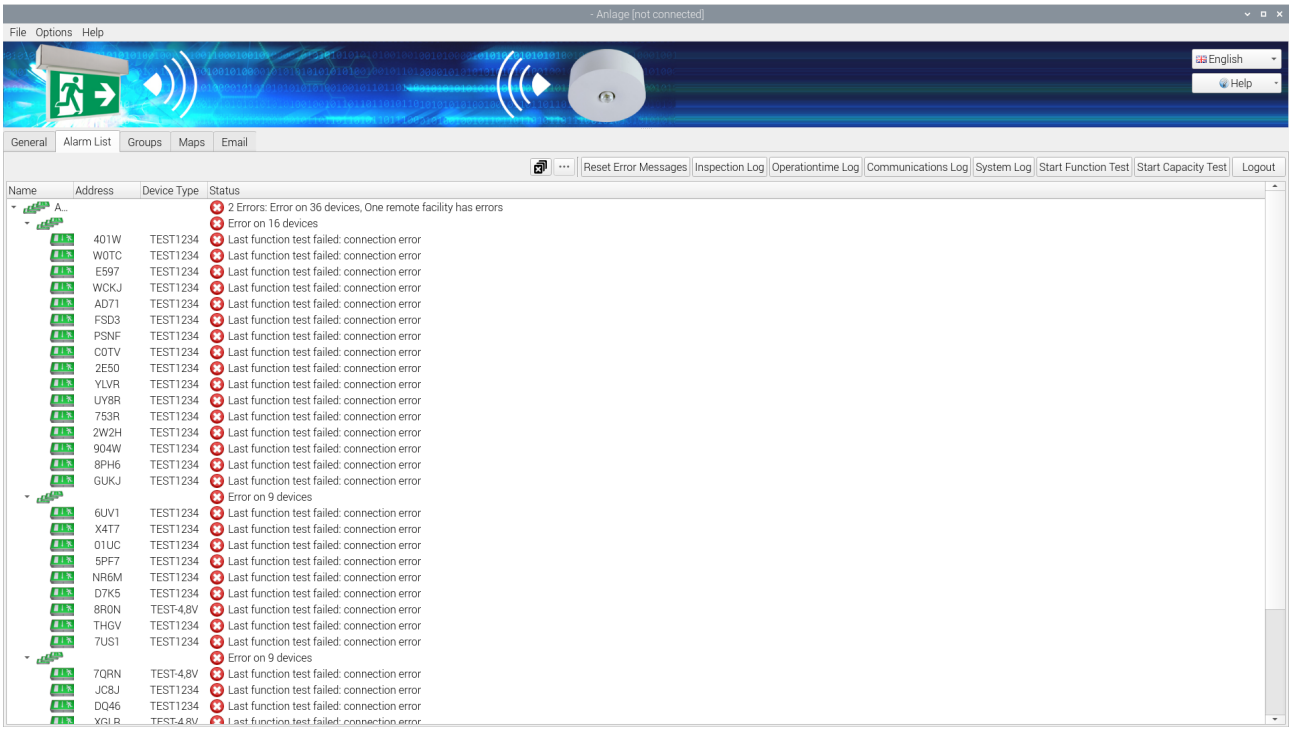


Figure 50: Alarm List view, facility manager and installer user levels

The functions listed in Table 11 can be performed via the context menu for the error messages (Figure 50).

Note: You can highlight one or more devices at the same time. Instructions for multiple highlighting can be found in Section 1.3.2.

Menu entry	Function	User level
Device Detail Dialog	Displays detailed information, such as mounting location, operating mode etc. for the selected device	Anyone
Start Function Test for Luminaire <Name>	Starts a function test for this emergency luminaire	Facility manager, installer
Start Capacity Test for Luminaire <Name>	Starts a capacity test for this emergency luminaire	Facility manager, installer
Block Luminaire <Name>	Puts emergency luminaire into remote inhibiting mode	Installer
Unblock	Ends remote inhibiting mode for emergency luminaire	Installer
Show on Map	Shows this emergency luminaire on the map	Anyone

Table 11: Functions of context menu in Alarm List view

A function or capacity test can only be started if the batteries of the emergency luminaires are adequately charged (see Sections 2.2 and 2.3).

The functions listed in Table 12 can be performed using the buttons in the **Alarm List** view.

Button	Function	User level
Reset Error Messages	All error messages currently active are reset. Acknowledgement of the error messages is recorded in the inspection log.	Facility manager, installer
Inspection Log	Opens the test run progress (see Section 8.8.1)	Anyone
Operationtime Log	Not implemented	Anyone
Communications Log	Opens the communications log (see Section Kommu-nikationslog)	Anyone
System Log	Opens the system log (see Section Systemlog)	Anyone
Start Function Test	Starts a function test for all emergency luminaires	Facility manager, installer
Start Capacity Test	Starts a capacity test for all emergency luminaires	Facility manager, installer
Logout	Resets the user level to **Anyone**	Facility manager, installer

Table 12: Buttons of the **Alarm List** view

Note: The Reset Error Messages button is only visible if the resetting of errors has been activated for the corresponding user level in the distributor area.

A function or capacity test can only be started if the batteries of the emergency luminaires are adequately charged (see Sections 2.2 and 2.3).

8.8.1 Test Run Progress

The results of function and capacity tests are stored in the test run progress along with other messages. The test run progress is opened by pressing the **Inspection Log** button in the **Alarm List** view. Figure 51 shows a screenshot of the opened test run progress.

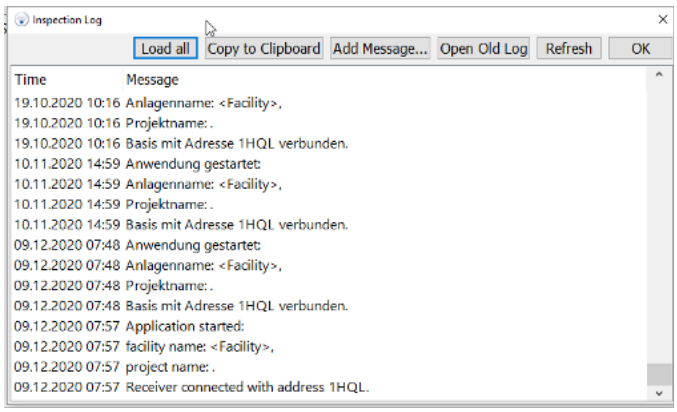


Figure 51: Inspection log

The messages in the test run progress are saved in the **inspection_log.txt** file. If the size of this file exceeds 4 MB, the content of the file is archived under **inspection_log_<date>.txt** and removed from the **inspection_log** file. When opened, the last 500 entries from the inspection log are loaded. All entries can be loaded by clicking on the “Load all” button.
The functions listed in Table 13 can be performed using the buttons from the test run progress.

Load all	Loads all the inspection log entries	Anyone
Copy to Clipboard	Copies the test run progress messages to the clipboard	Anyone
Add Message	Manual input of messages. Once a message has been entered manually, the Refresh button must be pressed in order for the message to be listed in the test run progress. Messages entered manually cannot be deleted from the test run progress.	Anyone
Open Old Log	Opens an archived test run progress	Anyone
Refresh	Updates the test run progress messages	Anyone
OK	Closes the test run progress window	Anyone

Table 13: Functions of buttons in test run progress

8.8.2 Communications Log

Error messages from radio network communication are recorded in the communications log. The start time of the WirelessProfessional software and the start time of the connection to a USB coordinator are also recorded. Figure 52 shows a screenshot of the communications log.

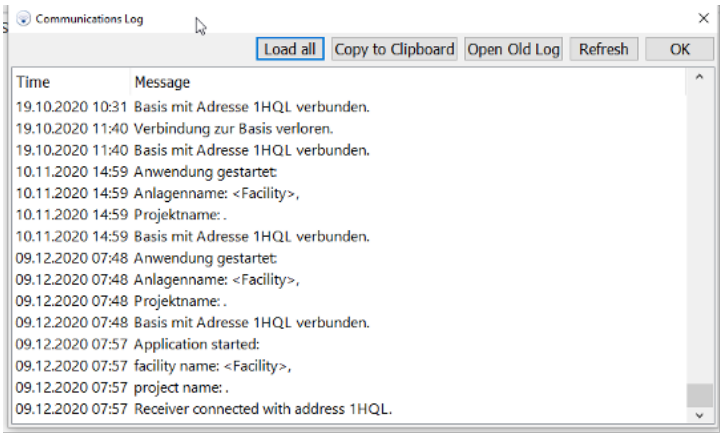


Figure 52: Communications log

The messages in the communications log are saved in the **communication.log** file. If the size of this file exceeds 4 MB, the content of the file is archived under **communication_<date>.log** and removed from the **communication.log** file. When opened, the last 500 entries from the communications log are loaded. All entries can be loaded by clicking on the "Load all" button. The functions listed in Table 14 can be performed using the buttons from the communications log.

Button	Function	User level
Load all	Loads all the communications log entries (Only the last 500 entries are displayed by default)	Anyone
Copy to Clipboard	Copies the test run progress messages to the clipboard	Anyone
Open Old Log	Opens an archived communications log file	Anyone
Refresh	Updates the communications log messages	Anyone
OK	Closes the communications log window	Anyone

Table 14: Functions of buttons in communications log

8.8.3 System Log

All configuration and status changes to the system are recorded in the system log.
Figure 53 shows a screenshot of the system log.

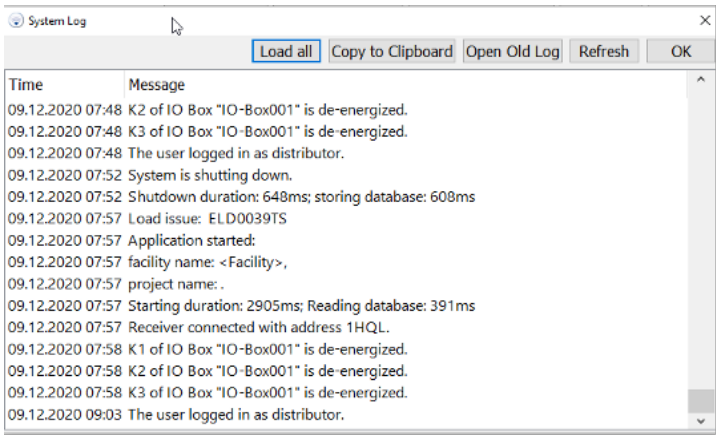


Figure 53: System log

The messages in the system log are saved in the **system.log** file. If the size of this file exceeds 4 MB, the content of the file is archived under **system_<date>.log** and removed from the **system.log** file. When opened, the last 500 entries from the system log are loaded. All entries can be loaded by clicking on the “Load all” button. The functions listed in Table 15 can be performed using the buttons from the system log.

Button	Function	User level
Load all	Loads all the system log entries (Only the last 500 entries of the system log are displayed by default)	Anyone
Copy to Clipboard	Copies the system log messages to the clip-board	Anyone
Open Old Log	Opens an old system log file	Anyone
Refresh	Updates the system log messages	Anyone
OK	Closes the system log window	Anyone

Table 15: Functions of buttons in system log

8.9 "Groups" View

You access the **Groups** view by selecting the **Groups** tab.
The **Groups** view shows the groups created in the system as well as the devices in each group. Figure 54 shows a screenshot of the Groups view.

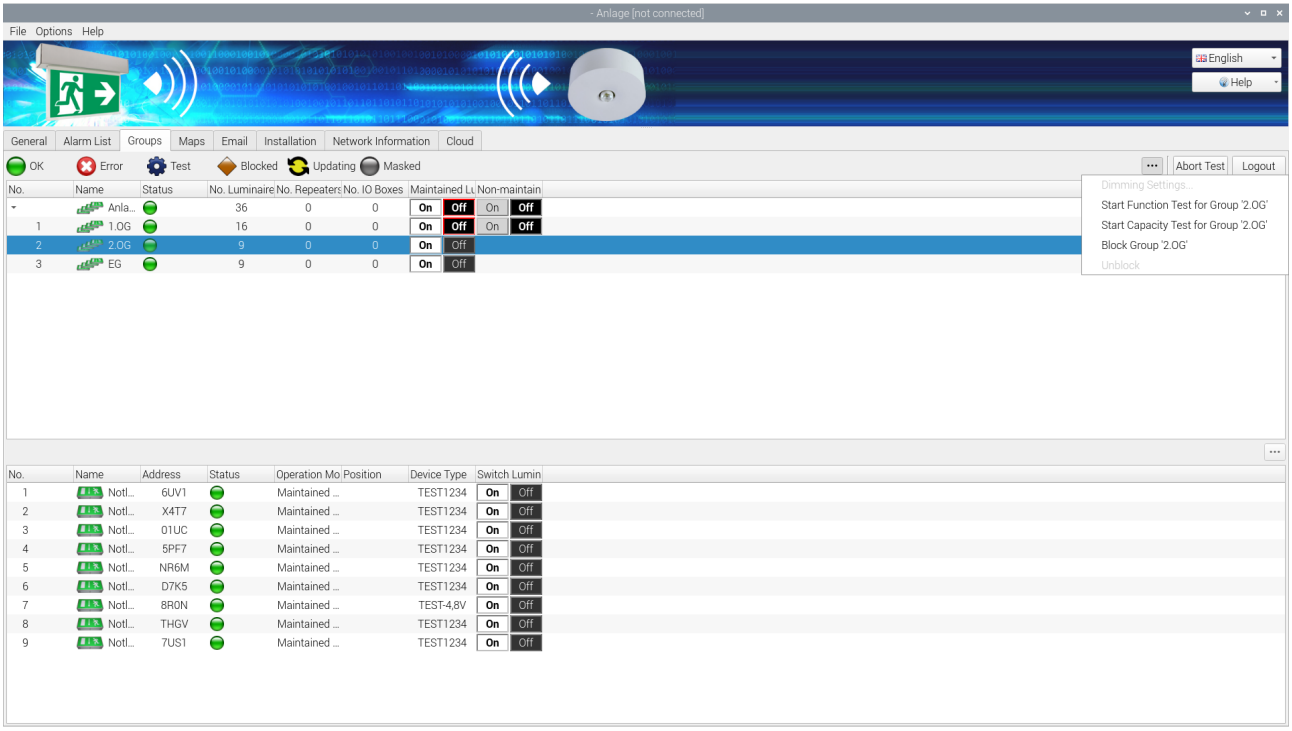


Figure 54: Groups view, facility manager and installer user levels

A test that is currently active can be aborted using the Abort Test button. (see Table 10: Functions of the **General** view) Devices, which do not support aborting tests, pause until the end of the test time for the capacity test that has already been started.
The groups created in the system are displayed in the top part of the Groups view. The columns in the top part show the name of the group or system, status and number of emergency luminaires, repeaters and IO boxes. Section 5.1 explains the meaning of the symbols used in the Status column. The buttons in the **Maintained Luminaires** and **Non-maintained Luminaires** columns allow emergency luminaires of the respective operating mode to be switched on or off. This function is only available at the facility manager and installer user levels and only if the system contains switchable emergency luminaires. A red frame around the **On** or **Off** button indicates that the emergency luminaires are switched off in maintained operation or switched on in non-maintained operation.
The functions listed in Table 16 can be performed via the context menu for the groups (Figure 54). The functions take effect for all emergency luminaires within the selected group in each case.

Menu entry	Function	User level
Dimming Settings	The option of dimming all emergency luminaires in this group when in normal and emergency mode (see Figure 56)	Facility manager, installer
Start Function Test for Group <Name>	Starts a function test for all emergency luminaires in this group	Facility manager, installer
Start Capacity Test for Group <Name>	Starts a capacity test for all emergency luminaires in this group	Facility manager, installer
Block Group <Name>	Puts all emergency luminaires in this group into remote inhibiting mode	Facility manager, installer
Unblock	Ends remote inhibiting mode for emergency luminaires in this group	Facility manager, installer

Table 16: Functions of context menu in upper part of Groups view

A function or capacity test can only be started if the batteries of the emergency luminaires are adequately charged (see Sections 2.2 and 2.3).
The devices of the group selected in the upper part of the Groups view are displayed in the lower part (Figure 55). The name of the device, its address, status, operating mode (if dealing with an emergency luminaire), the position of the luminaire and device type are displayed in the columns of the lower part. The buttons in the **Switch Luminaires** column allow switchable emergency luminaires to be switched on or off. This function is only available at the facility manager and installer user levels and only if the respective emergency luminaire can be switched. A red frame around the **On** or **Off** button indicates that an emergency luminaire is switched off in maintained operation or switched on in non-maintained operation.

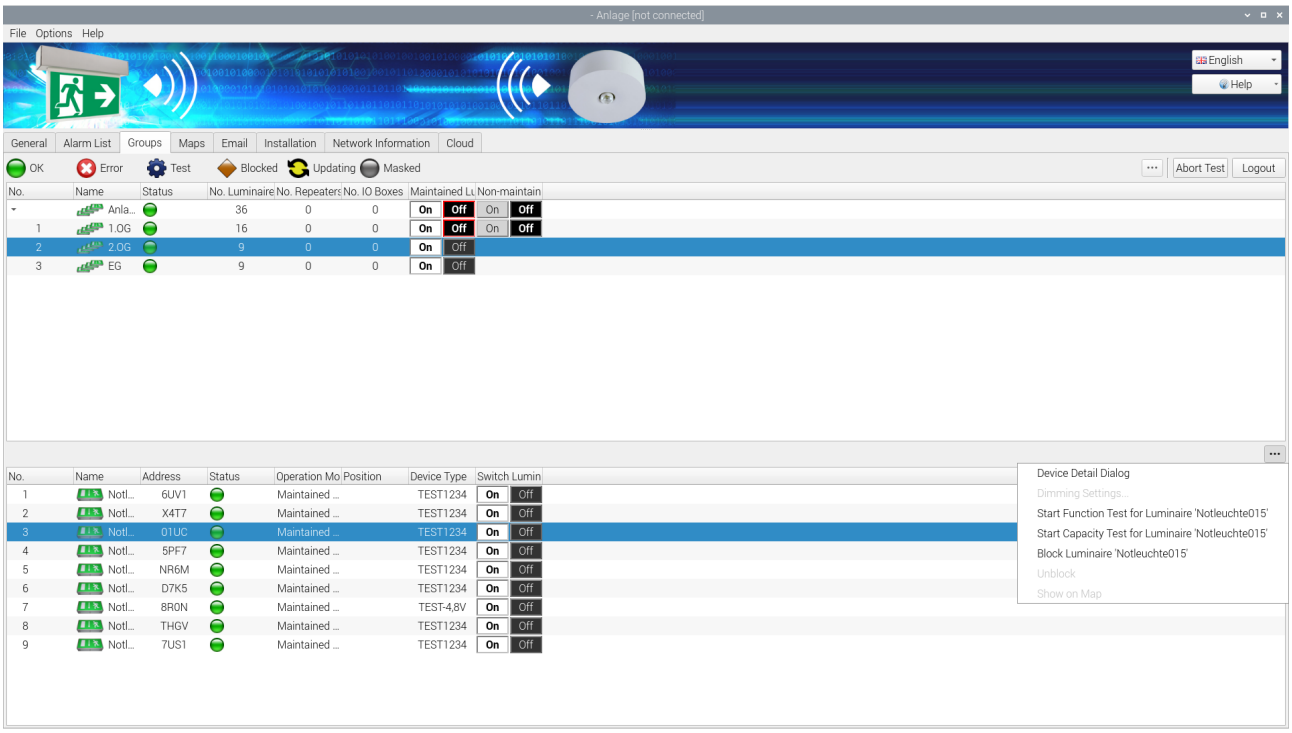


Figure 55: Groups view, facility manager and installer user levels

The functions listed in Table 17 can be performed via the context menu for the devices (Figure 55).
Note: You can highlight one or more devices at the same time. Instructions for multiple highlighting can be found in Section 1.3.2.

Menu entry	Function	User level
Device Detail Dialog	Displays details for the selected device	Anyone
Dimming Settings	The option of dimming this luminaire when in normal and emergency mode (Figure 56: Luminaire dimming settings)	Facility manager, installer
Start Function Test for Luminaire <Name>	Starts a function test for this emergency luminaire	Facility manager, installer
Start Capacity Test for Luminaire <Name>	Starts a capacity test for this emergency luminaire	Facility manager, installer
Block Luminaire <Name>	Puts this emergency luminaire into remote inhibiting mode	Facility manager, installer
Unblock	Ends remote inhibiting mode for this emergency luminaire	Facility manager, installer
Show on Map	Shows this device luminaire on the map	Anyone

Table 17: Functions of context menu in lower part of Groups view

A function or capacity test can only be started if the batteries of the emergency luminaires are adequately charged (see Sections 2.2 and 2.3).

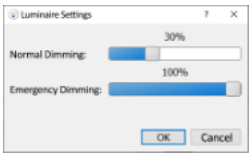


Figure 56: Luminaire dimming settings

Note: If a luminaire supports the dimming function, the **Dimming Settings** menu item can be selected. If a group contains some luminaires which do not support this feature and some which do, the **Dimming Settings** menu item is available to the group. Dimming is however only undertaken on those luminaires which support the feature.
The dimming of emergency luminaires may only be undertaken in accordance with locally valid provisions and the official emergency lighting plan for the building such that sufficient emergency lighting can be guaranteed at all times.

8.10 "Maps" View

You access the **Maps** view by selecting the **Maps** tab.
The **Maps** view allows maps to be added to the system and the luminaires installed in the system to be positioned on the maps such that the mounting location of a luminaire can be found at any time. The functions of the **Maps** view are only available to the **Installer** user level. The maps can only be viewed when in the **Anyone** and **Facility Manager** user levels.

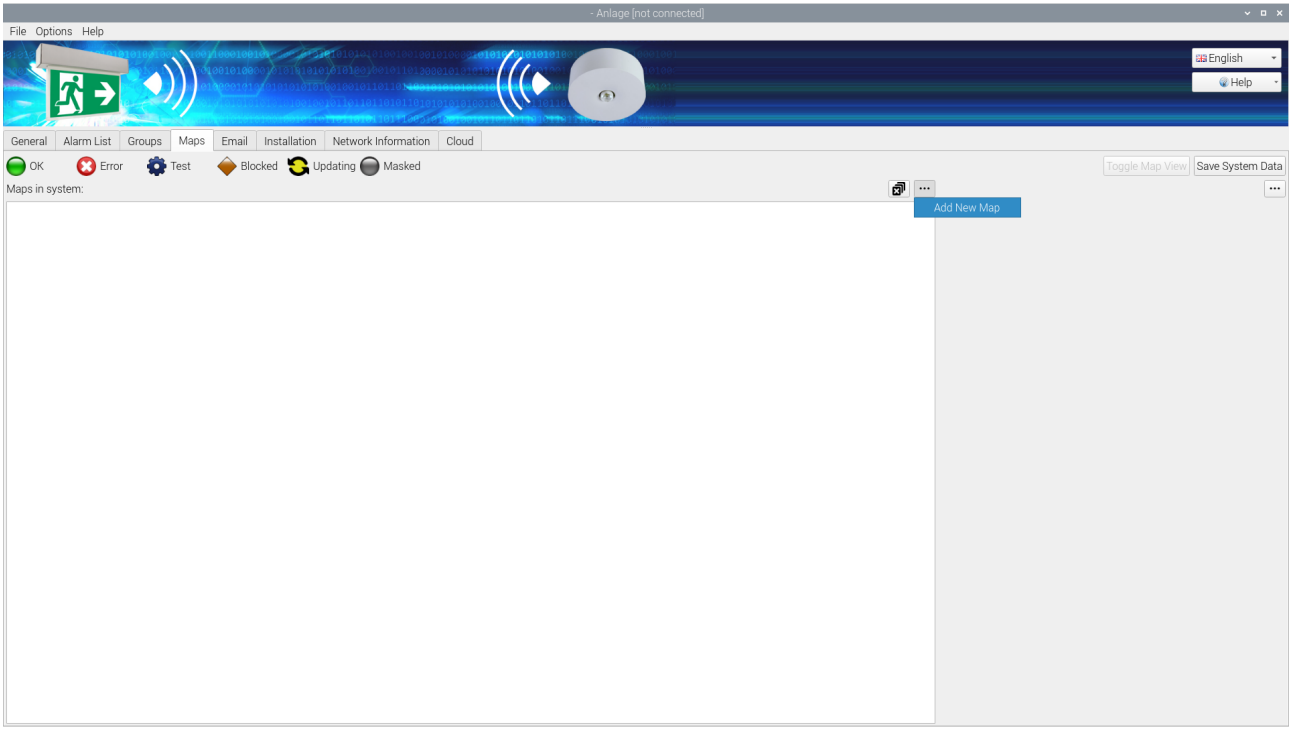


Figure 57: Maps view (list of maps), installer user level

The Maps view is divided up yet further into the list of maps (Figure 57) and graphic view of maps along with the devices positioned within it (Figure 59). You can switch between the two views using the Toggle Map View button.

8.10.1 "List of Maps" View

You can add new maps by selecting **Add New Map** in the context menu of the **Maps in system** area (Figure 57). Go to the file dialogue for the data carrier on which the maps are located. Highlight the maps you want to add, and confirm the selection by clicking on Open. The following graphics file formats are supported: **.bmp**, **.jpg** and **.png**. The maximum size of the maps is 10 mega pixels. Larger maps cannot be loaded into the WirelessProfessional system.
You can sort the list of maps by highlighting an entry and dragging it to the desired position within the list.
The context menu for maps in the **Maps in system** area (Figure 57) contains the **Add New Map**, **Rename Map <Name>**, **Delete map <Name>** and **Switch to Map View of <Name>** functions.
A view of the building can be integrated in the right-hand part of the **List of Maps** view. You add a building view by opening the context menu in the grey rectangle and/or building view at the right-hand edge of the window and selecting **Select New Building Logo** (Figure 58). Go to the file dialogue for the data carrier on which the building view is located. Select the building view and confirm the selection by clicking on Open.
Click or tap twice on an entry in the list of maps to go to the graphic view of this map.
Once you have made changes to the maps, select Save System Data to confirm the changes.

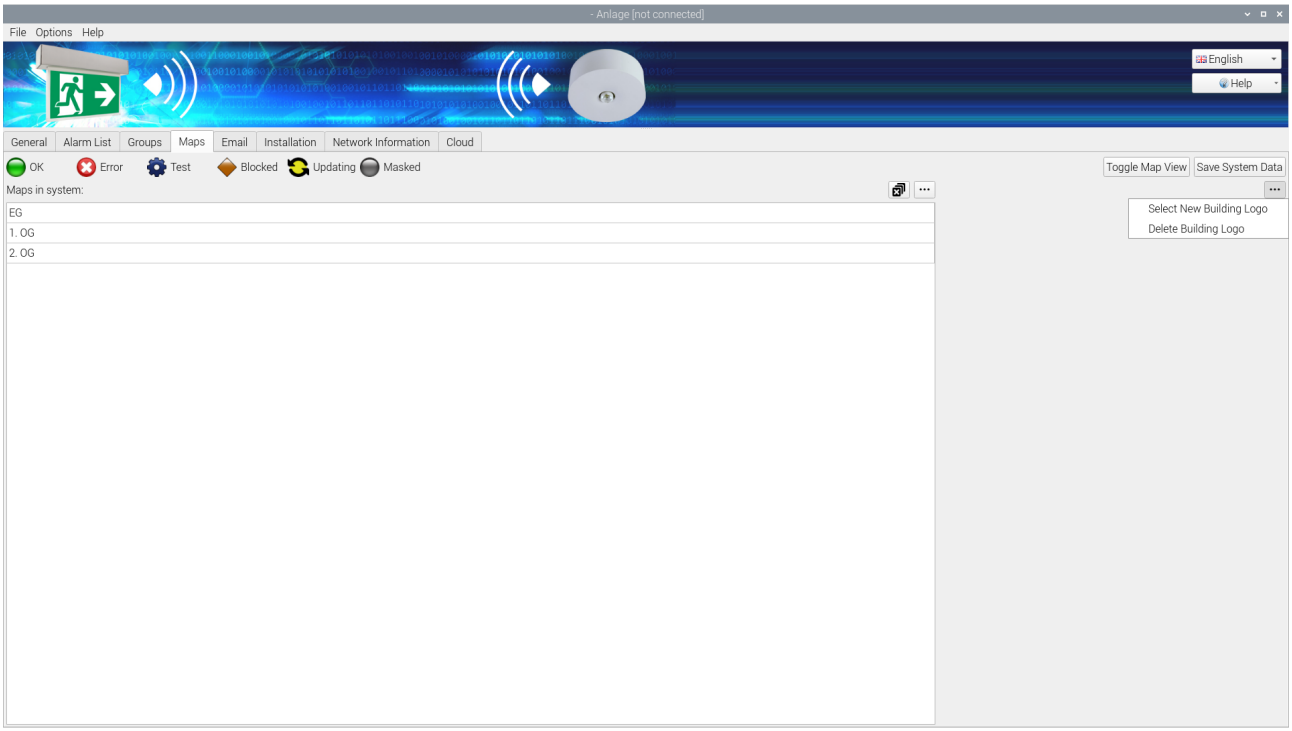


Figure 58: Maps view (list of maps), installer user level

8.10.2 Graphic "View of Maps"

The devices installed in the system can be positioned on the maps in the graphic view of maps. Figure 59 shows a screenshot of the graphic view of maps.
You access the graphic view of maps by clicking on the Toggle Map View button or by double-clicking or tapping twice on an entry in the list of maps.
The devices installed in the system are listed, sorted into groups, in the left-hand part of the view. You position a device on a map by highlighting the device in the left-hand part and dragging it to its mounting location on the map in the right-hand part. Devices which have been positioned on a map are automatically removed from the list in the left-hand part.
The map shown in the right-hand part can be selected from the drop-down selection list above the right-hand part. A map can also be selected using the arrow buttons located to the right and left of the drop-down selection list.
The slide control above the right-hand part can be used to adjust the scale of the map displayed and the scrollbars below and to the right of the map can be used to select the relevant image section.

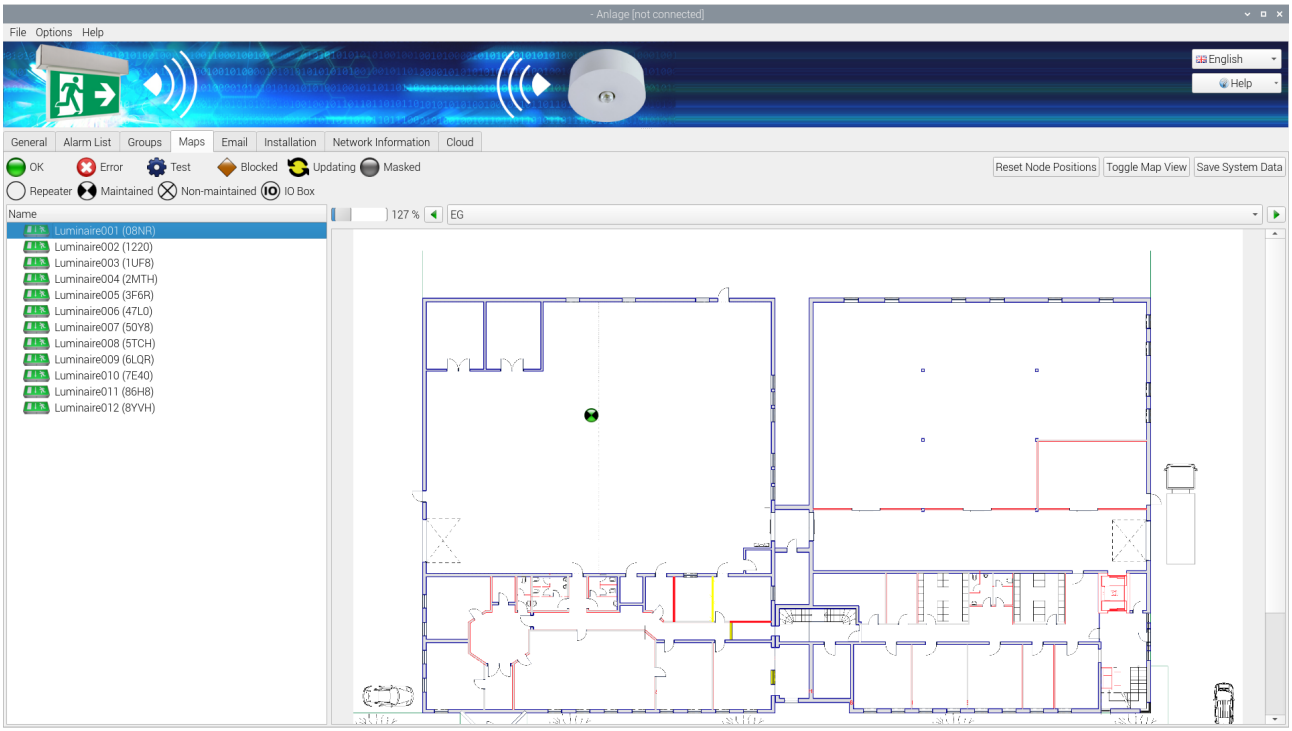


Figure 59: Maps view (graphic view), installer user level

The functions listed in Table 18 can be performed using the buttons in the graphic view of maps.

Button	Function	User level
Reset Node Positions	Deletes all devices from the map currently on display	Installer
Toggle Map View	Switches between the list and graphic view of maps	Anyone
Save System Data	Saves all changes to the system configuration	Installer

Table 18: Functions of buttons in graphic view of maps

Once you have made changes in the graphic view of maps, select Save System Data to confirm the changes.

8.11 “Email ” View

You access the **Email** view by selecting the **Email** tab. To be able to see this tab, you have to log in at facility manager level or higher.

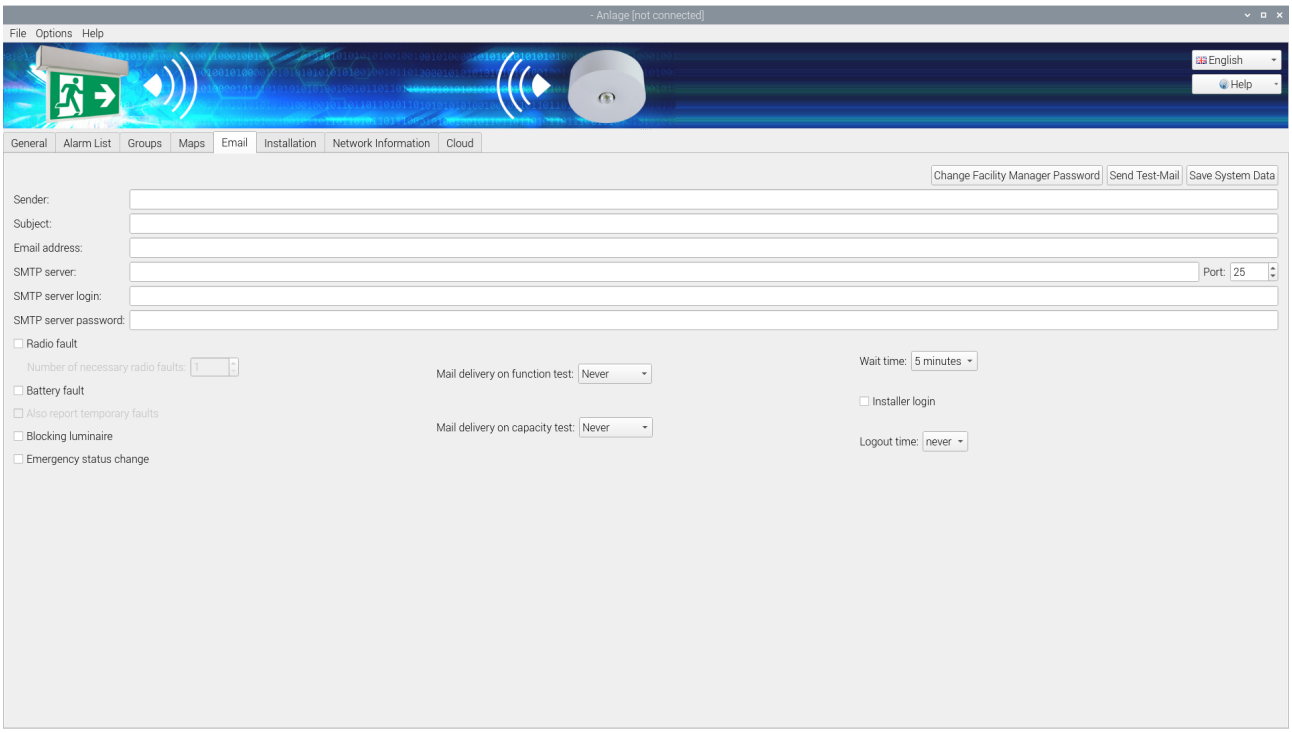


Figure 60: Email view, facility manager and installer user levels

The WirelessProfessional software provides the option of sending an email to a previously defined email address when certain events occur. The settings for sending these emails can be configured in the Email view. To use this function, you need an email account from which the emails can be sent, and the PC must have an Internet connection. Emails can be sent via a secure SSL connection.
Figure 60 shows a screenshot of the Email view.

Table 19 lists the boxes in the Email view and their meanings.

Box	Meaning
Sender	Sender's email address
Subject	Entry in subject line of email
Email address	Receiver's email address Use commas if sending to several different email addresses, e.g. receiver1@domain1.de, receiver2@domain2.de, ...
SMTP server	SMTP server from which the emails are sent
Port	The port via which the emails are to be sent (usually port 25, 587 or 465)
SMTP server login	Login for the SMTP server
SMTP server password	Password for the SMTP server. The WirelessProfessional software only supports SMTP servers with a password login.
Wait time	Time after an event has occurred before an email is sent. During this time, the system waits for further events so that several events can be bundled in one email.
Radio fault	Email dispatch in the event of a radio fault
Battery error	Email dispatch in the event of a battery fault
Also report temporary faults	An email is sent even if the fault has been remedied before the end of the wait time.
Mail delivery on function test	Choose between email is sent after all function tests (**all tests**) email is only sent after function tests in which errors occurred (**failed tests**) emails are not sent after function tests (**never**)
Mail delivery on capacity test	Choose between email is sent after all capacity tests (**all tests**) email is only sent after capacity tests in which errors occurred (**failed tests**) emails are not sent after capacity tests (**never**)
Blocking luminaire	Email is sent when emergency luminaire(s) is(are) put into remote inhibiting mode
Emergency status change	Email is sent when the signal status at the fire alarm input on the IO box changes (fire alarm starting or fire alarm ending)
Installer login	Email is sent when a user logs in as installer
Logout time	Users logged in as facility manager or installer are automatically logged out if no user activity is detected for the time set here. This function serves to automatically log out facility managers or installers who have forgotten to log out.

Table 19: Boxes in Email view

The functions listed in Table 20 can be performed using the buttons in the Email view.

Button	Function	User level
Change Facility Manager Password	Change the password for the facility manager user level	Facility manager, installer
Send Test Mail	Sends a test email	Facility manager, installer
Save System Data	Saves all changes to the system configuration	Facility manager, installer

Table 20: Functions of buttons in Email view

Once you have made changes in the Email view, confirm the changes by clicking on the Save System Data button.

8.12 "Installation " View

You access the **Installation** view by selecting the **Installation** tab. The **Installation** tab is only available at the installer user level. The Installation view is divided up into the **Configure Groups**, **Test**, **Timer, Remote Facilities** and **System** views using tabs.

8.12.1 "Configure Groups" View

You access the **Configure Groups** view by selecting the **Configure Groups** tab in the **Installation** view. The **Configure Groups** view allows new devices to be added to the system and groups to be created and managed. Figure 61 shows a screenshot of the **Configure Groups** view.

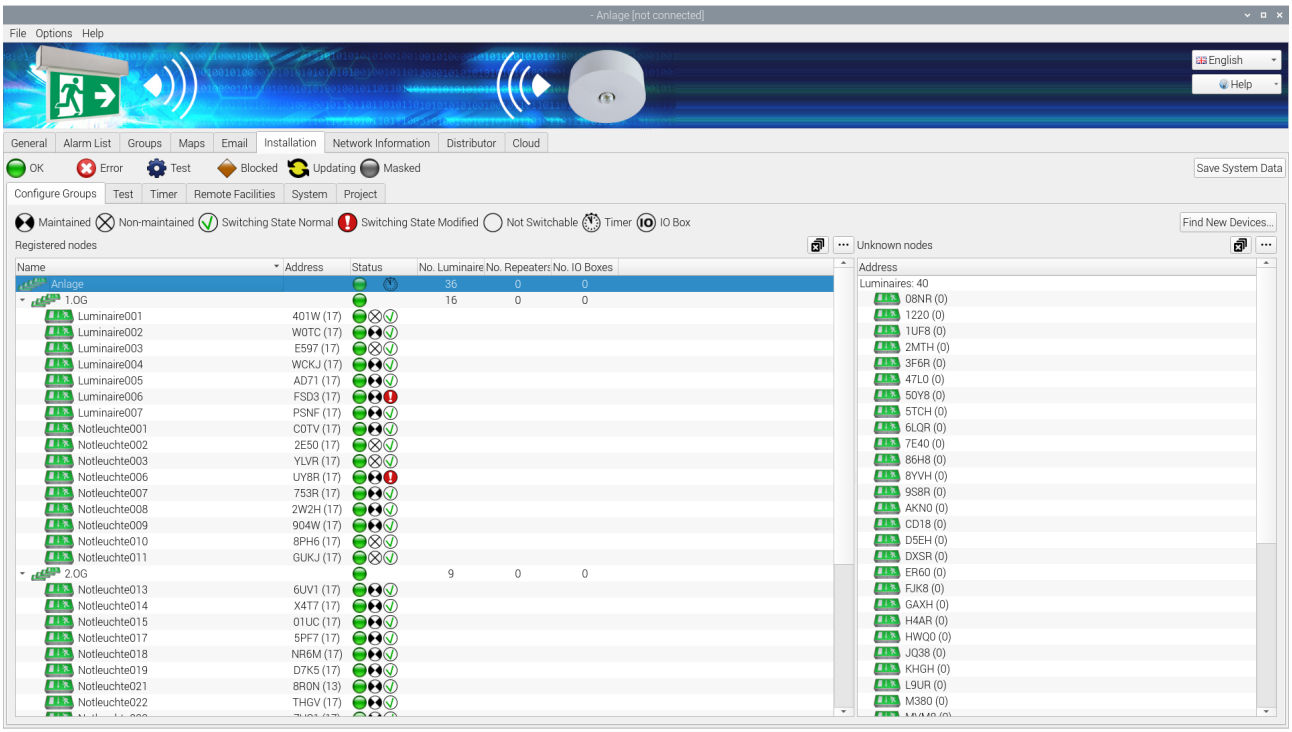


Figure 61: Configure Groups view, distributor user level

The first line in the **Registered nodes** area shows the name and properties of the system. Under this you can see the groups created in the system and the devices in the groups. Click or tap on the triangle to the left of a group to expand this group and to display the devices in this group or to collapse this group again.
The columns in the **Registered nodes** area show the name of the group or device, status and number of **emergency luminaires, repeaters** and **IO boxes** in the group.
Section 5.1 explains the meaning of the symbols used in the Status column.
The functions listed in
Table 21 can be performed via the context menu for the entries in the **Registered nodes** area (Figure 62). The context menu entries vary depending on whether the context menu for a group or device is called up.
At distributor user level, the Address column also shows information about the version of the wireless module fitted in the device.

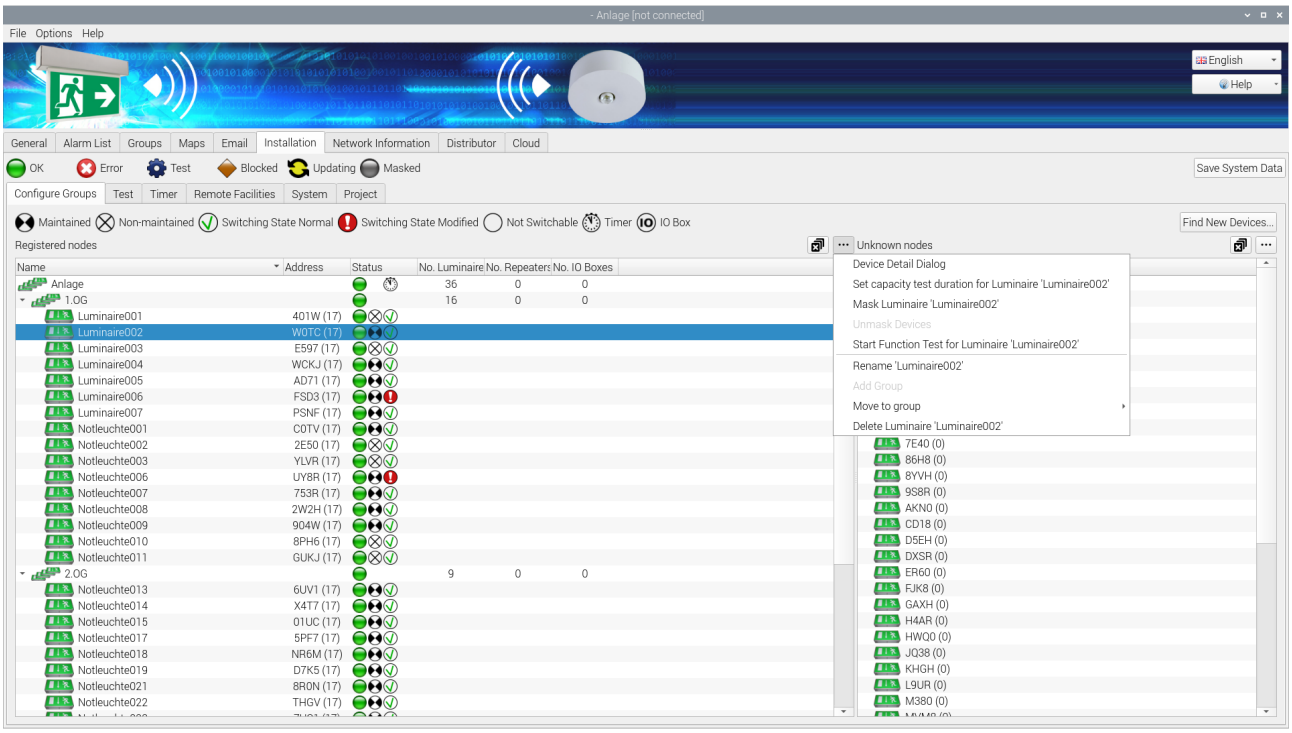


Figure 62: Configure Groups view - context menu

Menu entry	Function	User level
Mask x luminaires, x repeaters and x IO boxes/Mask luminaire 'Name'	Masks the device/devices (errors are not shown)	Installer
Unmask Devices	Cancels the masking of masked devices	Installer
Start Function Test for Luminaire 'Name'/ for Group 'Name'	Starts a function test for this emergency luminaire/emergency luminaires in this group	Installer
Rename group 'Name' / luminaire 'Name'	Renames groups/emergency luminaires	Installer
Add Group	Adds a sub-group to a group and/or system. This function is only enabled in the context menu for groups/the system	Installer
Delete group 'Name' / luminaire 'Name'	Deletes the group/device from the system	Installer
Set capacity test duration for group 'Name' / luminaire 'Name'	The option of shortening the autonomy time (and/or test duration) of the selected luminaire or all luminaires in a group from the control centre. **See note**	Installer

Table 21: Functions of context menu in Registered Nodes area, Configure Groups view

If the context menu of the Set capacity test duration for luminaire 'Name' is selected, the Autonomy time settings window opens.

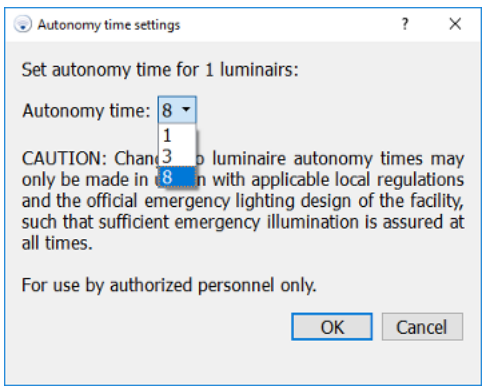


Figure 63: Autonomy time settings window

The current autonomy time is shown in the **Autonomy time settings** window. A new autonomy time can be selected using the drop-down list.

Only an autonomy time, which is the same as or shorter than the initial autonomy time, can be selected here.
This may result in an increase in the light current.

Warning: Changes to the autonomy time of emergency luminaires may only be made in accordance with locally valid provisions and the official emergency lighting plan for the building such that sufficient emergency lighting can be guaranteed at all times.

Note: Autonomy time settings are supported in wireless module version 2.1 (15) and higher. if the luminaire does not support this function, this menu item is not available. If a group contains both some luminaires which do not support this feature and some which do, this menu item is available. If the menu item for setting the capacity test duration for luminaires is selected for such a group, a note appears informing the user of which devices do not support this feature. The autonomy time for the remaining devices can be changed by pressing the Yes button.

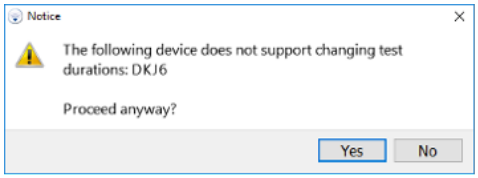


Figure 64: Note relating to changing the autonomy time

The luminaire(s) then changes(change) briefly into the Refresh status. As soon as the luminaire(s) returns(return) to the OK status, the change takes effect and is displayed accordingly in the device details (see Figure 88).

The **Unknown nodes** area shows the devices, which have a radio connection and which are not yet installed in a system. The list of devices is split into the **Luminaires**, **Repeaters** and **IO Boxes** device types. Devices which are not supported by the installed version of the WirelessProfessional software are shown as **Not usable** in the **Unknown nodes** area. Devices where the radio connection has been interrupted for more than 5 minutes are removed from the **Unknown nodes** area.
Devices from the **Unknown nodes** area are added to the system by highlighting them in the **Unknown nodes** area(Figure 65) and dragging them into the **Registered nodes** area. The devices are then installed one after another in the system. The remaining number of devices not yet installed is displayed in the first line of the **Registered nodes** area (**x devices not associated**). The time needed for this may vary depending on how the devices are arranged in the radio network and how far the installation has progressed (anything from several seconds to several minutes per luminaire).

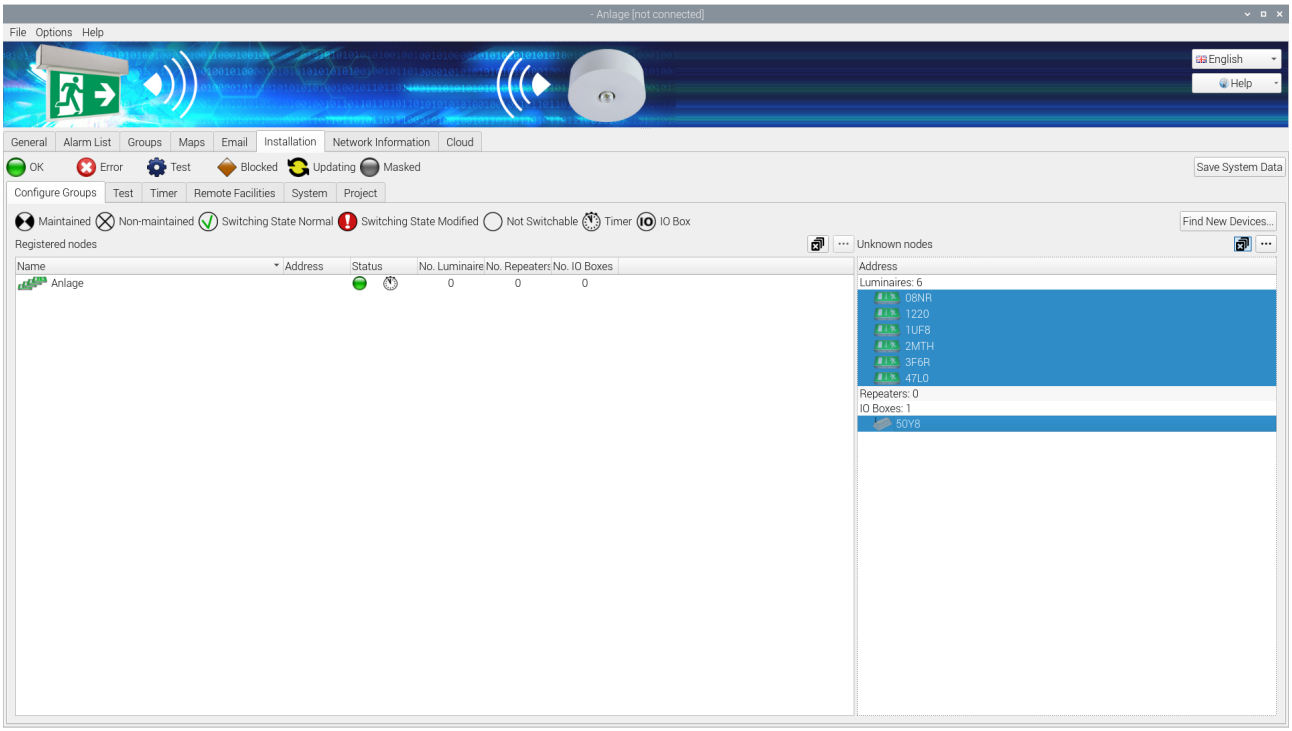


Figure 65: Configure Groups view, installer user level

Warning: During the installation, position the USB coordinator so that it has a direct radio connection with fewer than 50 devices (for details, see Section 8.13, “Network Information).
Devices, which have been installed in a system, only pass on data packets from devices in the same system. If devices are added to a system individually, the following scenario may therefore arise: A device, which is mounted a long way away from the USB coordinator, is added to the system. The devices, which are mounted between this device and the USB coordinator and which are needed to pass on data packets, may however not yet have been installed in the system. The distant device may then not be contactable in the radio network. This is the reason why all devices that are to be installed in the system should be highlighted in the **Unknown nodes** area and dragged at the same time into the **Registered nodes** area.

The functions listed in Table 22 can be performed via the context menu for the entries in the **Unknown nodes** area (Figure 66).

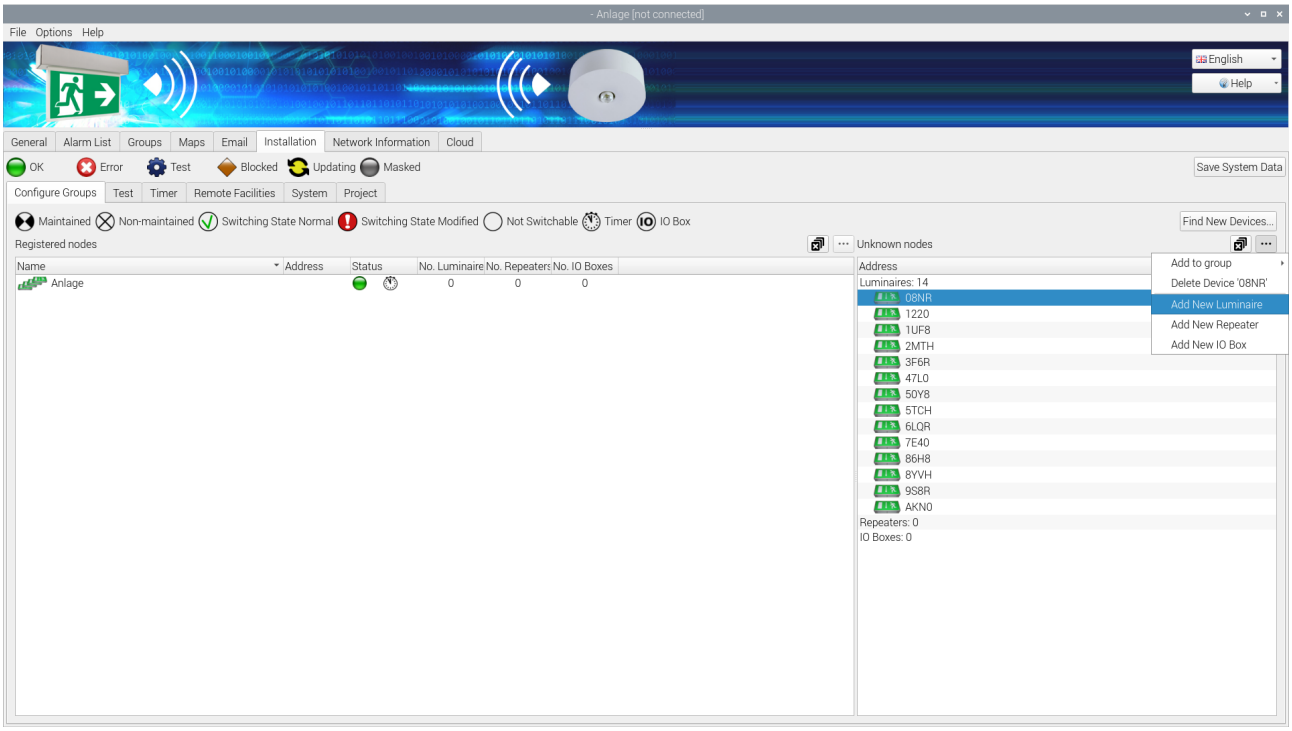


Figure 66: Configure Groups view - context menu

Menu entry	Function	User level
Add to group	Adds the selected device to a group	Installer
Delete Device 'Address'	Deletes the device from the **Unknown nodes** area	Installer
Add New Luminaire	Add emergency luminaire manually	Installer
Add New Repeater	Add repeater manually	Installer
Add New IO Box	Add IO box manually	Installer

Table 22: Functions of context menu in **Unknown nodes** area, **Configure Groups** view

The **Add New Luminaire/New Repeater/New IO Box** functions allow devices to be added to the system manually without there being any radio contact with these devices. The addresses of these devices must be known in order to add them manually.

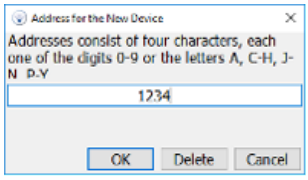


Figure 67: Address for the New Device

The  button can be used to access the on-screen keyboard directly from the WirelessProfessional software.

Manually created devices can also be dragged out of the **Unknown nodes** area into the **Registered nodes** area just like other devices.

Important!
Manually created devices can only be added provided that there are fewer than 250 devices in the system.

The colour status of manually added devices remains yellow until there is radio contact with the device. Then it changes to green. This function can be used to create an emergency lighting system in the WirelessProfessional software without the user having to be physically present at the system's mounting location.

If a 4-digit device address is entered in the **Address for the New Device** window and Delete is pressed, the system ID is removed from the device with this address. While the system ID is being removed, the device is displayed with the name **TempNode[Address]** (Figure 68) and once the system ID has been removed from the device, it is automatically removed from the system.

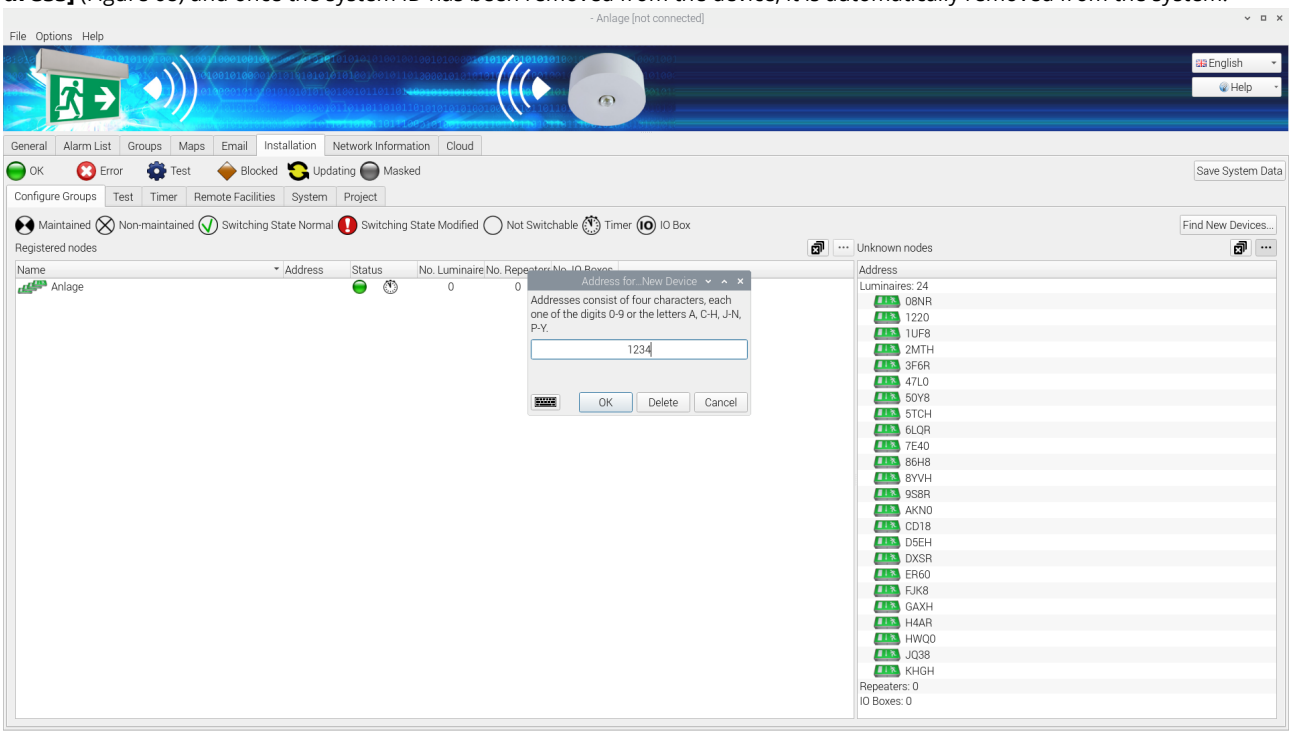


Figure 68: Display showing device to be deleted

The **Delete Device** '**Address**' function deletes the device from the **Unknown nodes** area. This simply removes the device from the list. Should the device continue to transmit connection requests, the address will be displayed again.

8.12.2 "Test" View

You access the **Test** view by selecting the **Test** tab in the **Installation** view.

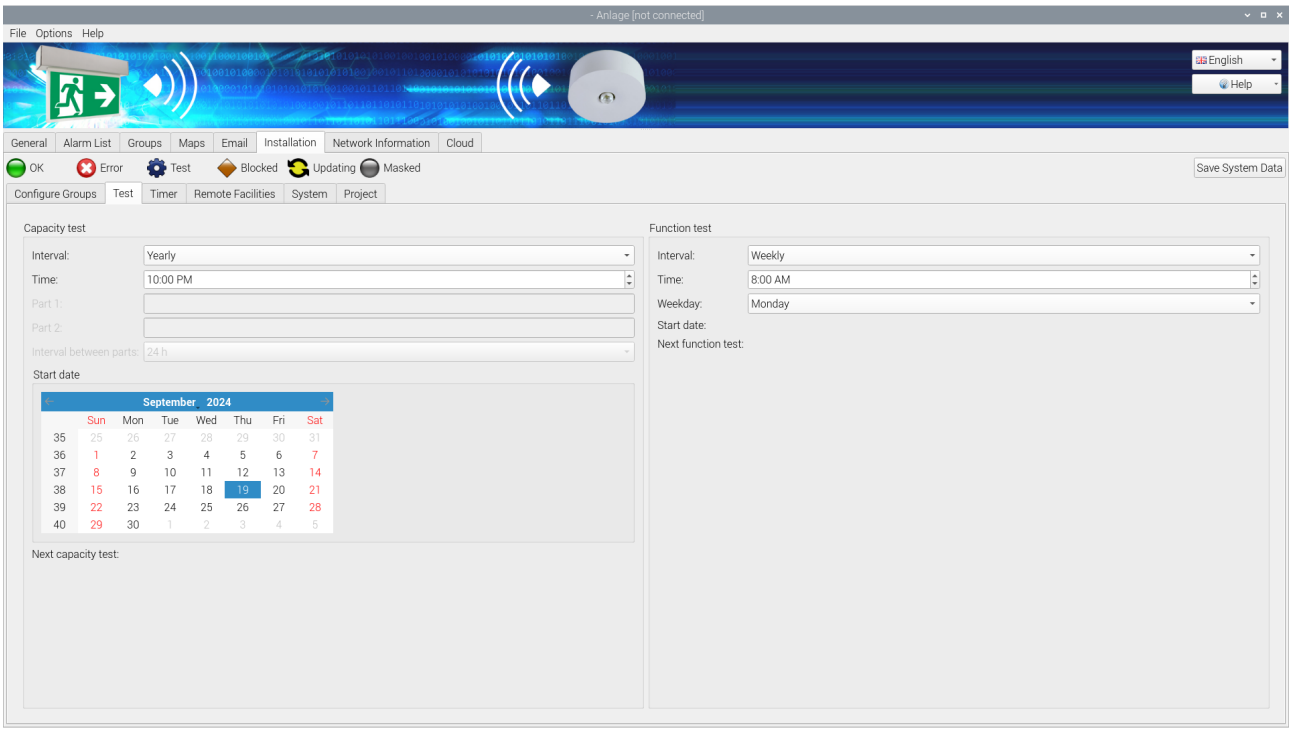


Figure 69: Test view, installer user level

The WirelessProfessional system performs automatic tests on safety lighting systems in accordance with DIN EN 50172 and DIN EN 62034. The capacity test and function test can be configured in the **Test** view. Figure 69 shows a screenshot of the **Test** view.

Table 23 lists the boxes in the **Capacity test** area and their meanings.

Box	Meaning
Interval	Interval between two capacity tests. Choose between manual, quarterly, every 4 months, every 6 months, yearly. If manual is selected, the automatic test is deactivated
Time	Time at which the test starts. Select a time at which the building is most probably not being used.
Part 1	Not implemented
Part 2	Not implemented
Interval between parts	Not implemented
Start date	Select the date for the next capacity test
Next capacity test	The date of the next capacity test is only displayed once changes have been confirmed by selecting Save System Data

Table 23: Boxes in Test view, Capacity test area

A function or capacity test can only be started if the batteries of the emergency luminaires are adequately charged (see Sections 2.2 and 2.3).
If an automatic capacity test is started and one or more emergency luminaires are not adequately charged (see Sections 2.2 and 2.3), the capacity test for these emergency luminaires is postponed by 24 h. After 24 h, another attempt is made to run the capacity test for the emergency luminaires. The software will try up to three times to run a capacity test for the emergency luminaires.

Table 24 lists the boxes in the **Function test** area and their meanings.

Box	Meaning
Interval	Interval between two function tests. Choose between manual, daily and weekly. If manual is selected, the automatic test is deactivated.
Time	Time at which the test is started. Select a time at which the building is most probably not being used.
Weekday	Day of the week on which the function test is carried out (if **weekly** is selected in the **Interval** box)
Next function test	The date of the next function test is only displayed once changes have been confirmed by selecting Save System Data

Table 24: Boxes in Test view, Function test area

Once you have made changes in the Test view, select Save System Data to confirm the changes.

8.12.3 "Timer" View

You access the **Timer** view by selecting the **Timer** tab in the **Installation** view.
Timers can be used to assign to luminaires functions, which are carried out at defined times. Figure 70 shows a screenshot of the **Timer** view.

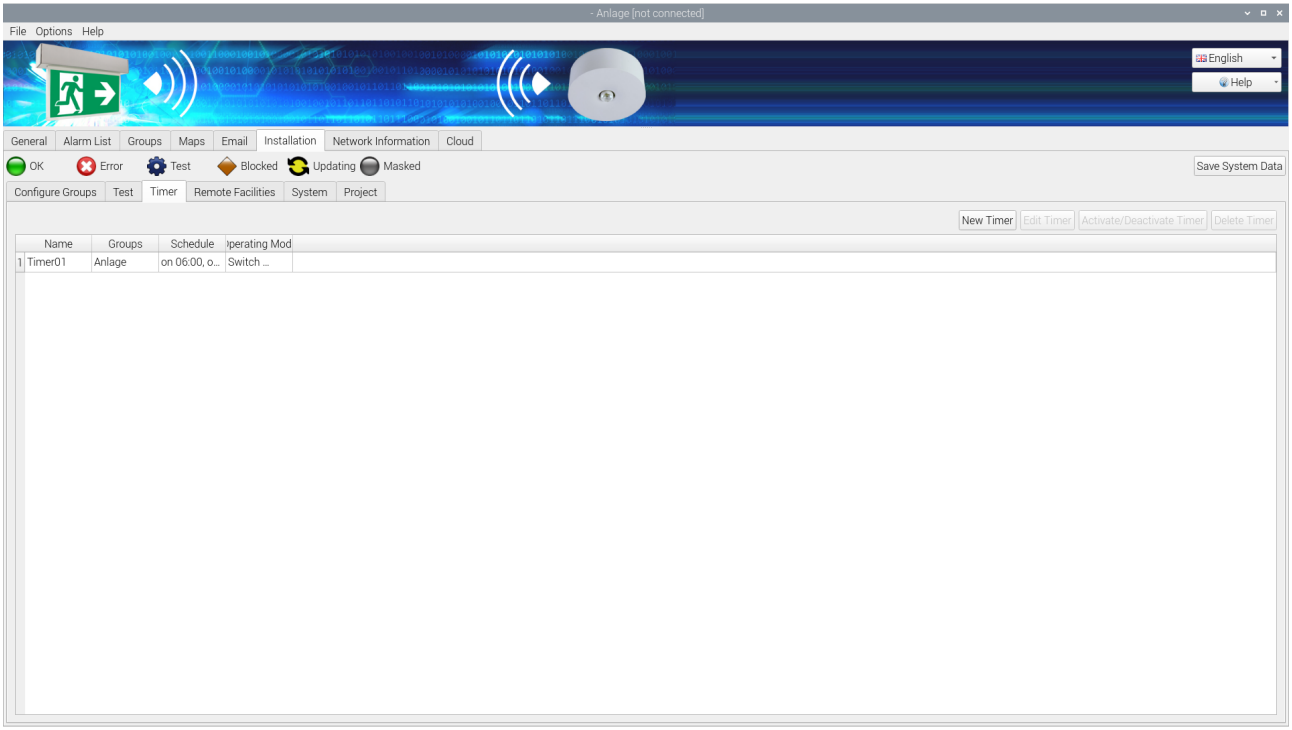


Figure 70: Timer view, installer user level

The functions listed in Table 25 can be performed using the buttons in the **Timer** view.

Button	Function	User level
New Timer	Opens the **Configure Timer** window (Figure 71) to configure a new timer	Installer
Edit Timer	Opens the **Configure Timer** window (Figure 71) for the highlighted timer	Installer
Activate/Deactivate Timer	Activates/deactivates the highlighted timer	Installer
Delete Timer	Deletes the highlighted timer	Installer

Table 25: Functions of the Timer view

The New Timer and Edit Timer buttons open the **Configure Timer** window (Figure 71) for configuring a timer. Table 26 lists the boxes in the **Configure Timer** window and their meanings.

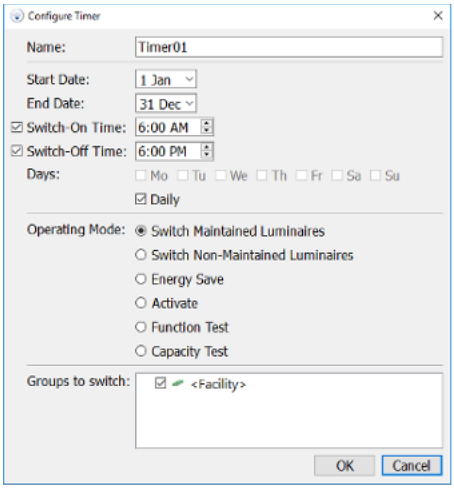


Figure 71: Configure Timer window

Box	Meaning
Name	Name of timer
Start Date	Date from which the timer is active
End Data	Date after which the timer is no longer active
Switch-On Time	Time at which the emergency luminaires are switched on
Switch-Off Time	Time at which the emergency luminaires are switched off
Days	Select the days on which the switching function is to be run or select **Daily**
Operating mode	Select the switching function to be run. Choose between: Switch Maintained Luminaires Switch Non-Maintained Luminaires Energy Save (switches off all switchable and switched-on luminaires in the system) Activate (switches on all switchable luminaires in the system in maintained operation) Function Test (trigger a manual function test for selected groups) Capacity Test (trigger a manual capacity test for selected groups)
Groups to switch	Select the groups whose luminaires are to be switched

Table 26: Boxes in **Configure Timer** window

Once you have made changes in the **Timer** view, select Save System Data to confirm the changes.

Note: Only the switch-on time should be set for function and capacity tests. Otherwise an error message will appear.

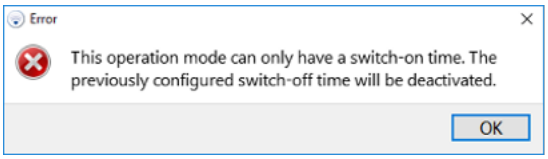


Figure 72: Timer programming error

Timer-controlled function and/or capacity tests can be used to allow the system to run function or capacity tests in sections. The capacity test is run as explained in Section 2.2 by means of a schedule.

Note: If there are two timers triggering function tests, an interval of 1h must be programmed between them.

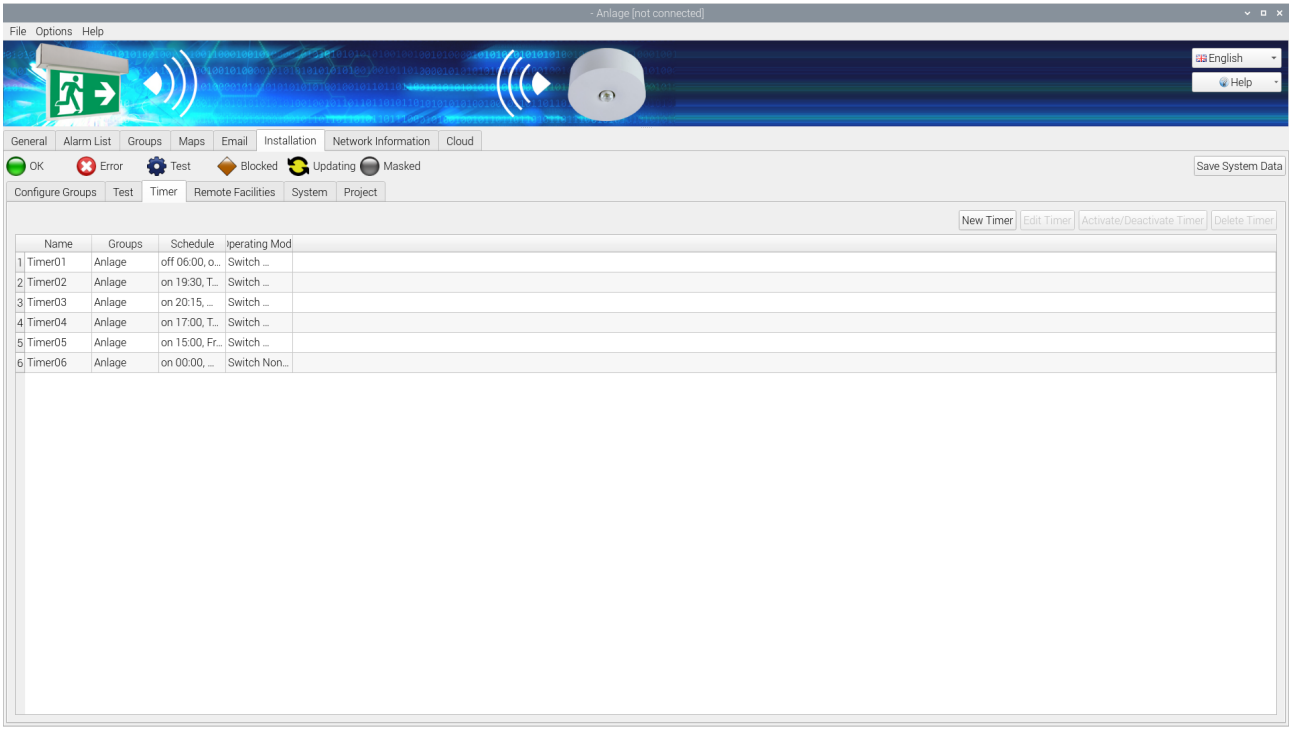


Figure 73: Overview of programmed timers

8.12.4 **"Remote Facilities" View**

You access the **Remote Facilities** view by selecting the **Remote Facilities** tab in the **Installation** view.
In addition to its own devices, the Wireless Professional software can also monitor a Wireless Professional control centre connected via Ethernet and systems of the multiControl *plus* series.

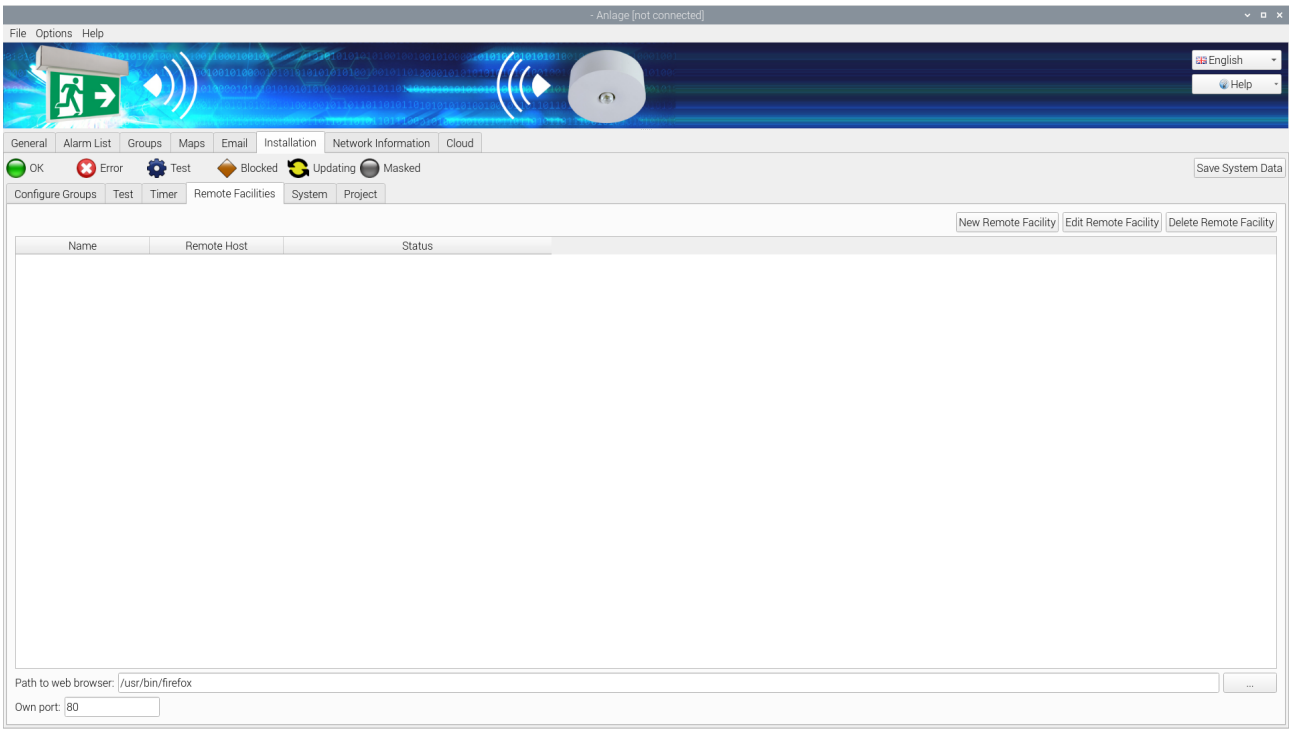


Figure 74: Remote Facilities view, installer user level

The New Remote Facility buttons opens the window for configuring networked systems.

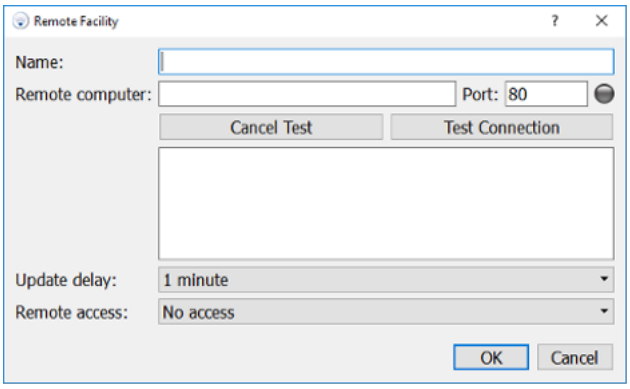


Figure 75: Input box for remote facility

Enter any name for the system you want to monitor (for example: WLTOUCH). In the “Remote computer” box, enter the IP address or device name of the system in question and the port. Then select the Test Connection button to test the connection to it.

- Default port for WLCPC: 80
- Default port for systems in the multiControl *plus* series: 81
- Default port for WLZent: 8080

Once the connection to the system you want to monitor is established successfully (IO), configure the update delay. This is used to set how often data from the remote system is queried. You can choose between 10 seconds, 1 minute and 10 minutes.

Note: A remote facility may be a system from the multiControl *plus* series (XML version 1) or a Wireless Professional system. The type of remote access can also be selected.

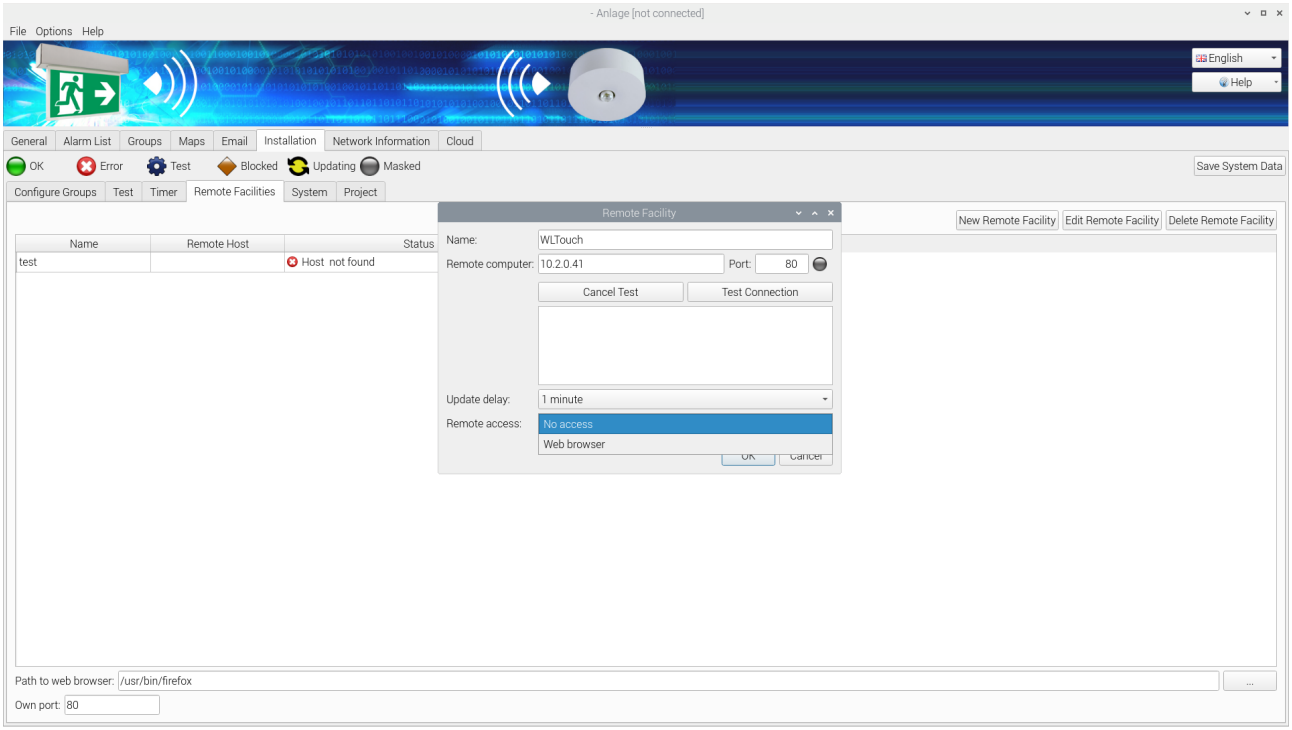


Figure 76: Connection test for remote facility

All the systems to be monitored are listed along with their name, IP address and status. The configuration menu of the system in question can be called up again and edited by selecting the Edit Remote Facility button. Systems highlighted accordingly can be removed from monitoring by selecting the Delete Remote Facility button.

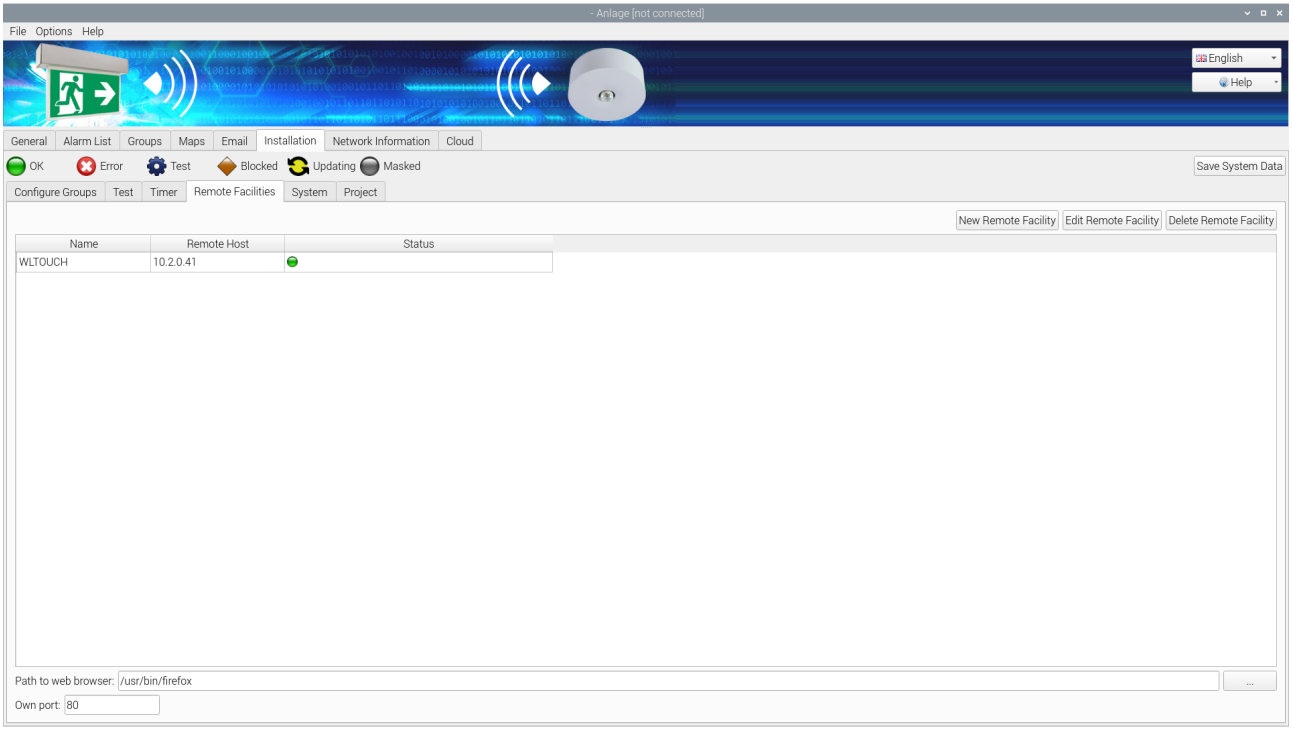


Figure 77: Overview of remote facilities

The number of systems which can be monitored is limited to 1 by default

In the General view, along with the main system you will now also see the systems to be monitored by the main system.

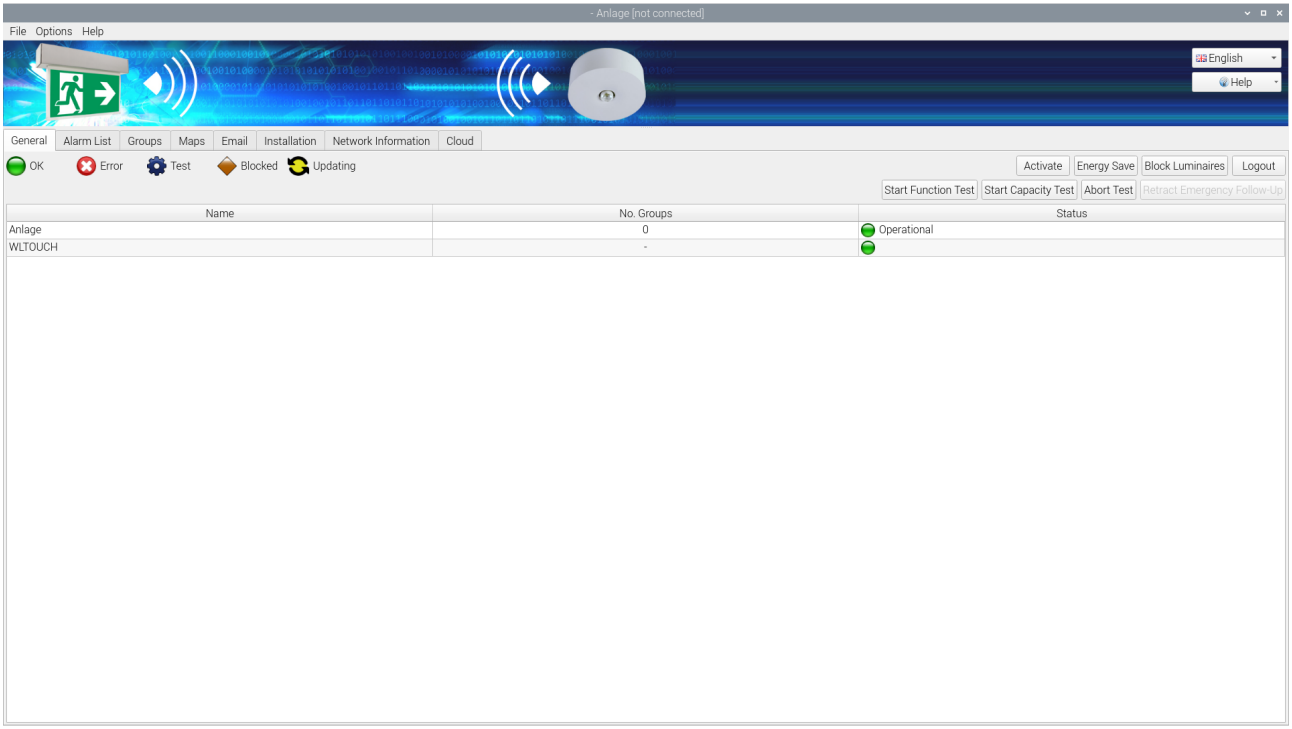


Figure 78: Monitoring remote facilities

Remote access to the system in question is established by double-clicking or tapping twice in the “No. Groups” or “Status” column of the respective system provided that this device supports the remote access option.

8.12.5 "System" View

You access the **System** view by selecting the **System** tab in the **Installation** view.
In the System view, contact details for the installer are entered and other settings affecting the entire system are configured. Figure 79 shows a screenshot of the **System** view.

Table 27 lists the boxes in the **System** view and their meanings.

Box	Meaning
First name, Last name, Company, Phone, Email	Installer's contact details. These contact details are displayed in the **Maintenance Due** reminder window.
System name	Name of the WirelessProfessional system
Time to connection error	Time between a radio fault occurring and an error being reported. This parameter applies to all devices other than IO boxes.
Time to connection error for IO Boxes	Time between a radio fault to an IO box occurring and an error being reported. Alongside the error message, the relay of output 1 on the IO box (event device error function) also de-energises.
Emergency follow-up time	Time between the fire alarm signal being deactivated and the emergency luminaires being switched off. If **Manual Retraction** is selected, the overrun time has to be manually terminated using the Reset Fire Alarm Overrun Time button in the **General** view.
Commands waiting	Number of commands which are still waiting to be transmitted to a device
Commands in execution	Number of commands in the USB coordinator's output buffer

Table 27: Boxes in System view

The longer of the two **Time to connection error** or **Time to connection error for IO Boxes** times is also the minimum period for which the automatic test system remains in the **Status is being updated** operating status (colour symbol) after a reboot. The system cannot switch into the **No error message** status (colour symbol) before this time because an error, present before the time when the system launches, will result in an error message after the **Time to connection error** time.

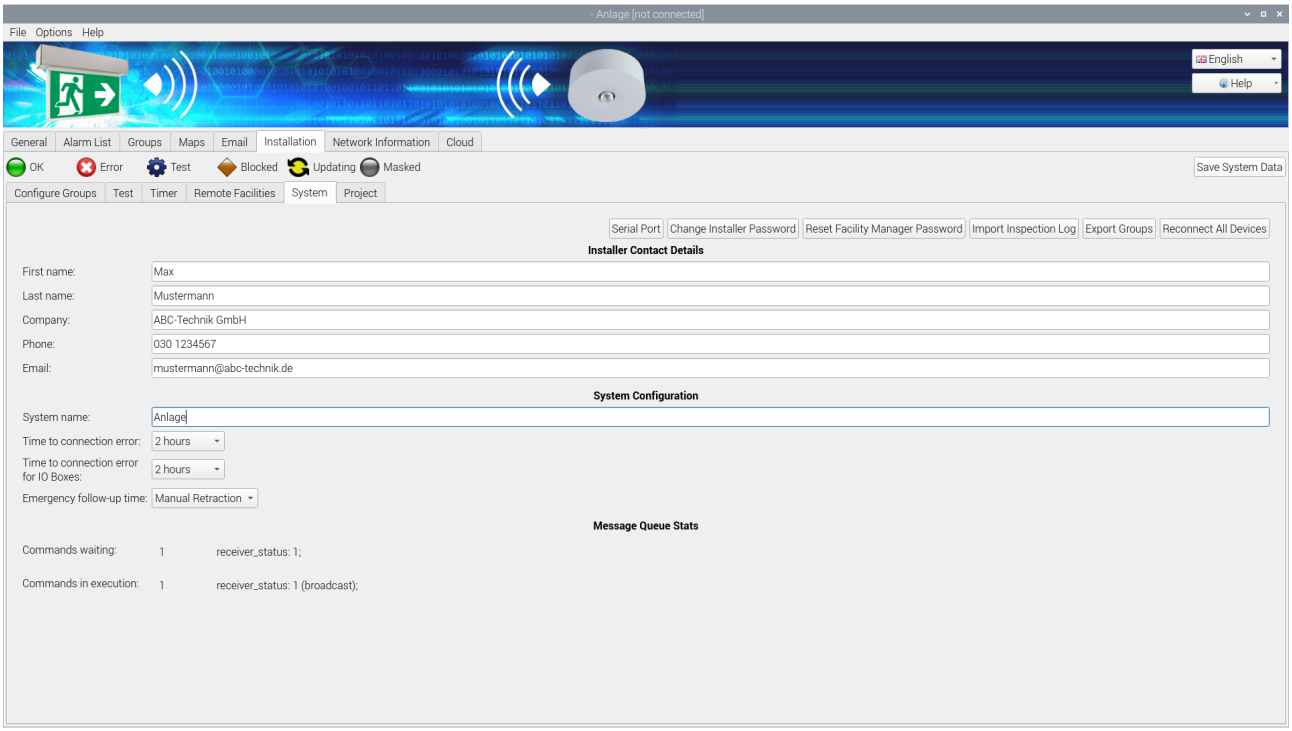


Figure 79: System view, installer user level

If installation has been interrupted or if the coordinator is changed, the system ID must be re-entered in all devices. This is done using the Reconnect All Devices button. During this process, the system assignment is temporarily deleted from the devices. They are however still shown in the **Registered nodes** area. Devices of other systems within range are temporarily shown in the **Unknown nodes** area (Changing USB Coordinator 11.7).

Warning: The Reconnect All Devices function is performed in all other systems within range. Given that this process involves a high volume of radio traffic, it may take several hours to complete.
Once you have made changes in the **Configure Groups** view, select Save System Data to confirm the changes.

The functions listed in Table 28 can be performed using the buttons in the **System** view.

Button	Function	User level
Serial Port	Manual selection of port for USB coordinator	Installer
Change Installer Password	Change the installer password	Installer
Reset Facility Manager Password	Reset the facility manager password to 1111	Installer
Import Inspection Log	Not implemented	Installer
Export Groups	Exports the group structure into a file with comma-separated formatting (comma separated values, csv)	Installer
Reconnect All Devices	All devices assigned to the system are allocated the system ID of the coordinator currently connected	

Table 28: Functions of the System view

Once you have made changes in the System view, select Save System Data to confirm the changes.

8.12.6 **"Project " View**

You access the **Project** view by selecting the Project tab in the **Installation** view.
The address data for the building and/or project are entered in the Project view. The address data entered is used in the cloud to localise the project. Figure 80 shows a screenshot of the **Project** view.

Table 29 lists the boxes in the **System** view and their meanings.

Box	Meaning
Project name	Name of the project
Building Name	Additional name of building
Address Line 1:	Building number and name of street
Address Line 2:	Building number and name of street
Postal Code	Postal code of building
City	Name of city or town where the building is located
Region	Federal state in which the city or town is located
Country	Name of country

Table 29 Boxes in the Project view

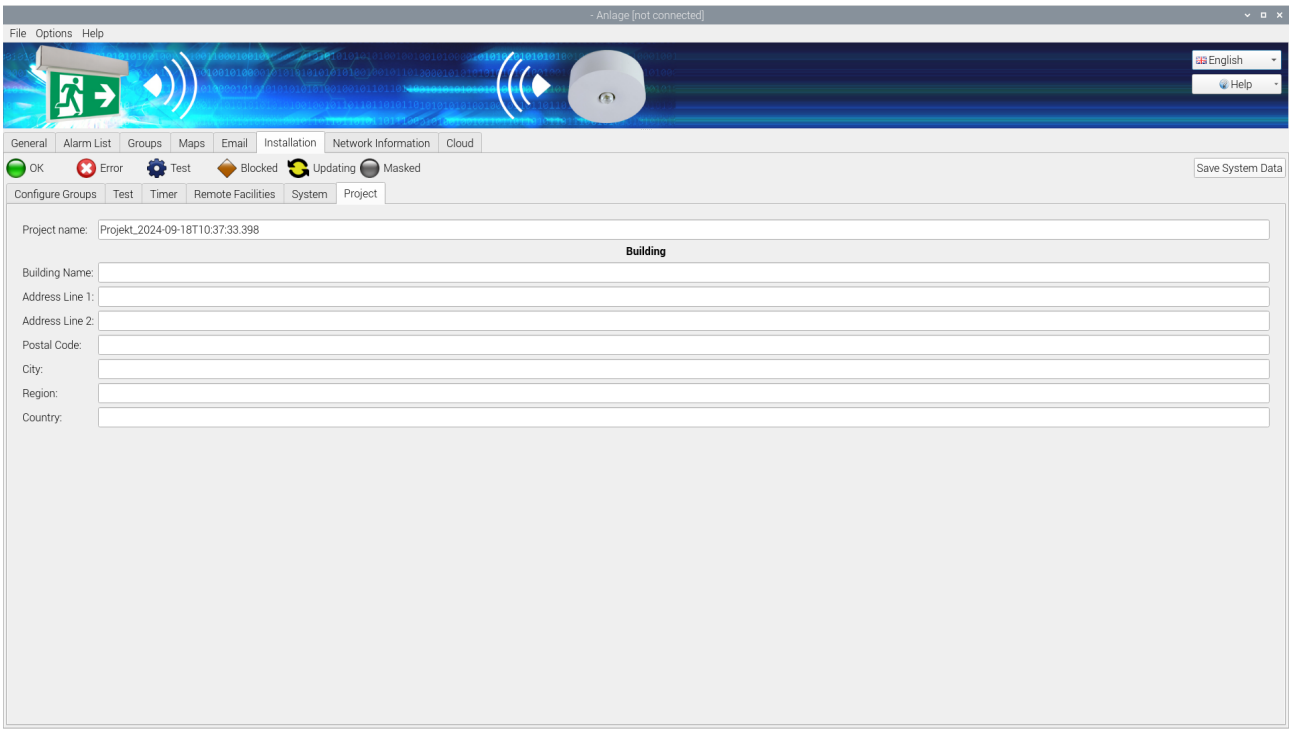
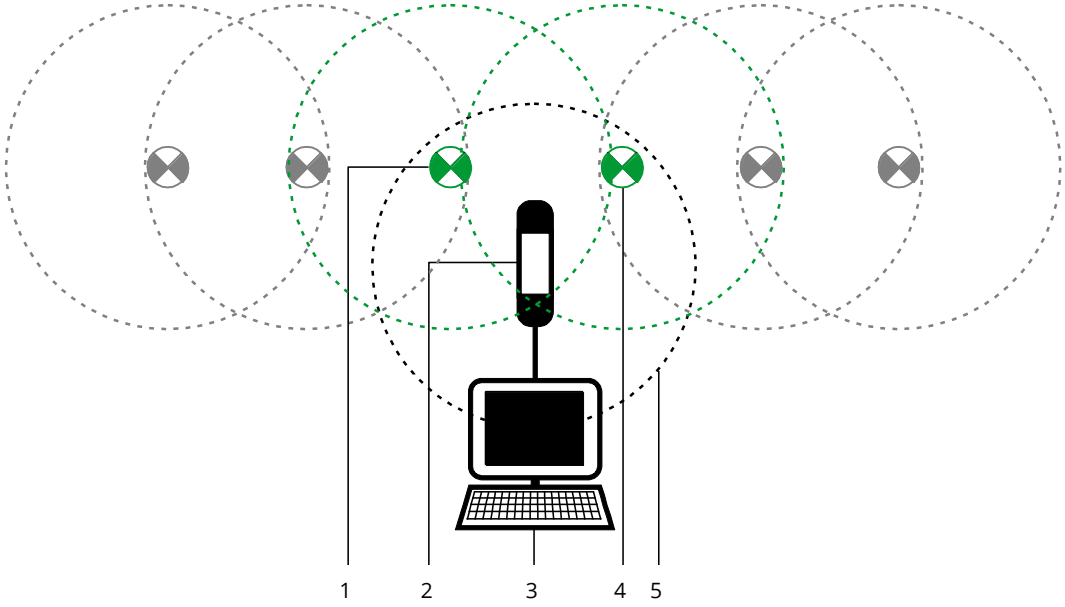


Figure 80 Project view, installer user level

8.13 "Network Information" View

You access the **Network Information** view by selecting the **Network Information** tab. The **Network Information** tab is only available at the **Installer** and **Distributor** user levels.
The top part of the **Network Information** view shows the radio signal strength of the devices, which have a direct radio connection to the USB coordinator. The devices with a direct radio connection to the USB coordinator are highlighted in Figure 81. Figure 82 shows a screenshot of the **Network Information** view. The height of the bar indicates the radio signal strength. The device addresses are displayed above the bar.
Once a signal from a device has been received and the radio signal strength measured, a 4-minute timer is started. While the timer is running, the colour of the radio signal strength bar for this device changes from green to grey. If the 4-minute timer elapses without a new measurement being received for the device, the device is removed from the view.



1. Device with a direct radio connection to the USB coordinator
2. USB coordinator
3. Computer
4. Device with a direct radio connection to the USB coordinator
5. Send/receive radius of USB coordinator

Figure 81: Devices with a direct radio connection to the USB coordinator

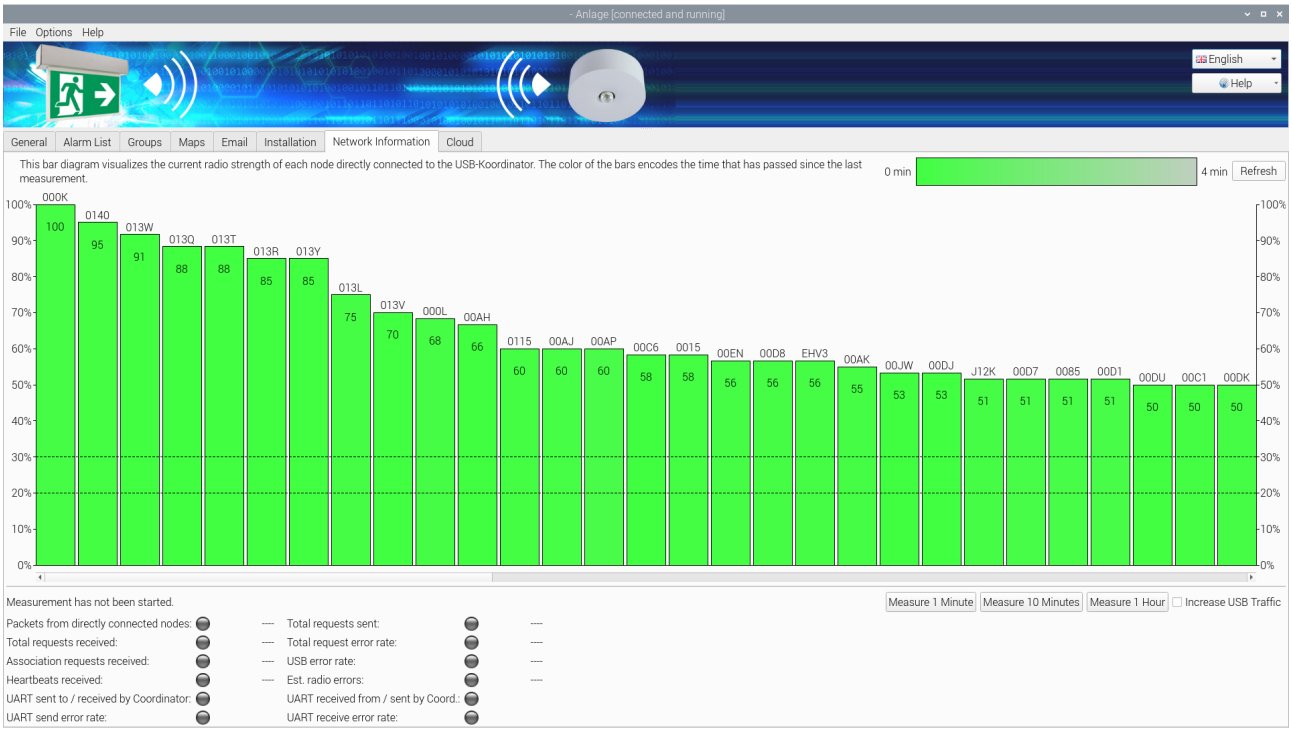


Figure 82: Network Information view, installer user level

The bottom part of the **Network Information** view serves to measure various radio network parameters, which may prove useful for problem-solving. If a measurement is needed, the distributor will handle this or will ask you to take the measurement and provide him or her with the results.
Start the measurement by selecting the Measure 1 Minute, Measure 10 Minutes or Measure 1 Hour button.
Before starting a measurement lasting more than one hour, set the logout time in the Email view to **never** and confirm the change with **Save System Data**.

The number of data packets passing between the coordinator and WirelessProfessional software can be artificially raised by ticking the “Increase USB Traffic” button. The tick in the checkbox is automatically removed when the Network Information view is exited or once the measurement has been started.[3]

Table 30: Measurements in the bottom part of the **Network Information** view lists the measurements and their meanings.

[3] Should only be used in agreement with a service technician

Measurement	Meaning
Packets from directly connected nodes	Number of radio packets per minute from devices with a direct radio connection to the USB coordinator. The colour symbol for this measurement turns yellow or red if too many devices have a direct radio connection to the USB coordinator.
Total requests received	Total number of requests per minute from devices to the automatic test system
Association requests received	Number of requests per minute from devices not yet installed in a system.
Heartbeats received	Radio network measurement
UART sent to / received by Coordinator	Number of data packets, which the WirelessProfessional software has sent to the USB coordinator and the number of data packets, which have been received by the USB coordinator
UART send error rate	Error rate calculated from the ratio of packets sent and packets received by the recipient
Total requests sent	Number of requests per minute from the automatic test system to devices
Total request error rate	Percentage of requests, which cannot be transmitted to the devices.
USB error rate	Percentage of requests, which cannot be transmitted to the USB coordinator via the USB connection.
Est. radio errors	
UART received from / sent by Coordinator	Number of data packets, which the USB coordinator has sent to the WirelessProfessional software and the number of data packets, which have been received by the WirelessProfessional software
UART receive error rate	Error rate calculated from the ratio of packets received and packets sent by the sender

Table 30: Measurements in the bottom part of the **Network Information** view

8.14 "Cloud " View

You access the **Cloud** view by selecting the **Cloud** tab. The **Cloud** tab is available in the installer user level and higher. In the anyone and facility manager user levels, the **Cloud** tab can be displayed via the Help menu in the banner.
The cloud server data is displayed and other settings relating to cloud communication are configured in the **Cloud** view. Figure 84 shows a screenshot of the **Cloud** view.

Table 31 lists the boxes in the **Cloud** view and their meanings.

Box	Meaning
Project Name	Name of the project (see Table 29)
Azure API Url	Web address of the API
Azure API Port	Port, which the API uses
Azure Api Authority	Link to user login page to create the user token
Azure Api Client Id	ID of server instance
Azure Host Name	Internal Azure server URL
Azure Functions Url	Web address of the API function
Azure Functions Port	Port, which the API function uses
Terms Display Port	Local port for the web browser for accepting the terms and conditions of use
User Token Port	Local port via which the user token is exchanged between web browser and LLXC
Azure API Timeout (s)	Timeout in seconds for requests to the Cloud Api
IOT Hub Message Timeout (s)	Timeout in seconds for requests to the Azure IOT hub
Display Name	Initially, "Cloud" is entered. The tab name is taken from this box.
Auto Close Browser	If this checkbox is ticked, the web browser opened automatically to log in to the cloud is closed again once the device has successfully logged in.
IOT Hub Use Web Sockets	If this checkbox is ticked, the IOT hub uses ports that also use websites rather than the ports entered here.

Table 31 Boxes in the Cloud view

Parameters relating to the cloud can only be modified if you have used the manufacturer login. Network and display parameters can, however, be modified at the installer user level.

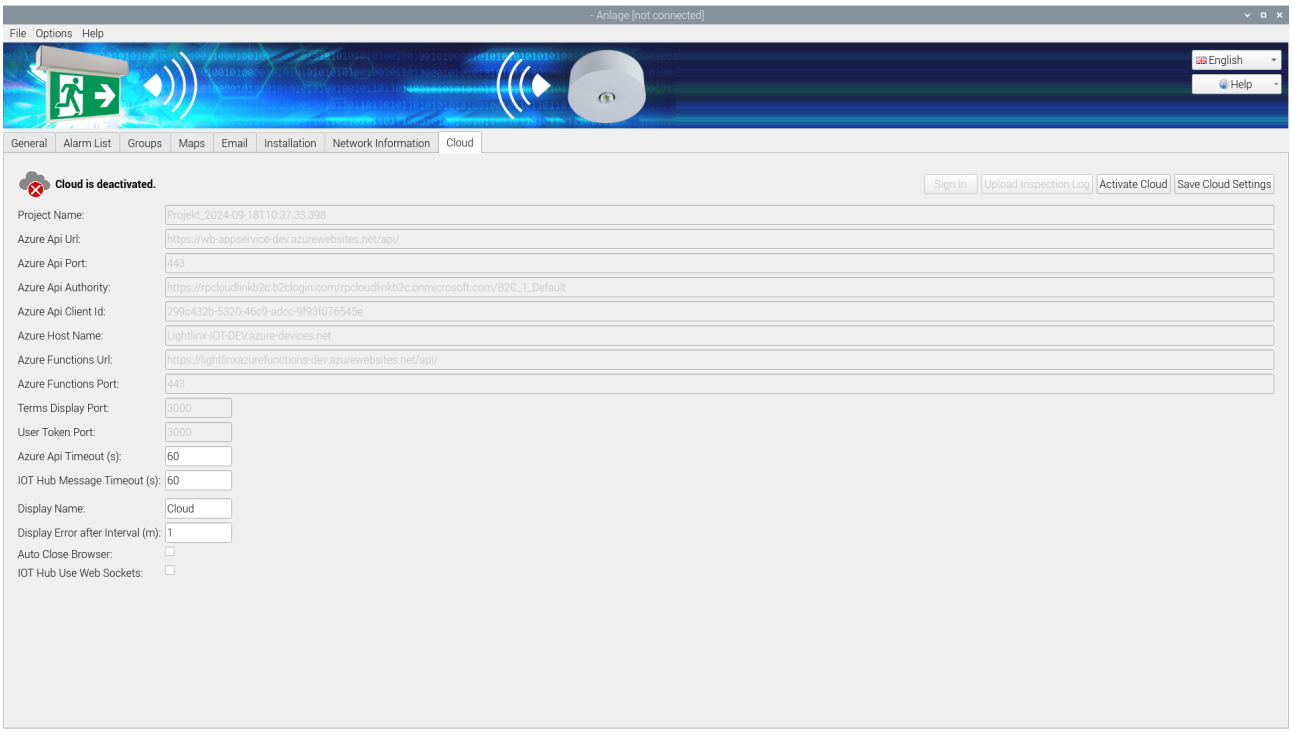


Figure 83 Cloud view, installer user level

The functions listed in

Table 32 can be performed using the buttons in the **Cloud** view.

Button	Function	User level
Sign In	Opens the web browser and prompts the user to log in to the cloud	Anyone
Upload Inspection Log	Uploads the inspection log to the cloud	Anyone
Activate/Deactivate Cloud	Activates or deactivates the exchange of data with the cloud	Installer
Save Cloud Settings	Permanently saves changes to the cloud parameters. Changes to the parameters are only adopted/used after saving.	Installer
Close	Closes the Cloud tab	Anyone & facility manager

Table 32 Buttons in the Cloud view

The Sign In and Upload Inspection Log buttons are only available when the cloud is activated.

8.15 "Distributor " View

You access the **Distributor** view by selecting the **Distributor** tab. The **Distributor** tab is only available at the distributor user level. In the **Distributor** view, the contact details and logo of the distributor are entered and other settings affecting the entire system are configured. Figure 84 shows a screenshot of the **Distributor** view.

Table 33 lists the boxes in the **Distributor** view and their meanings.

Box	Meaning
Company, Contact person, Phone, Email	Distributor's contact details. These contact details are displayed in the **Maintenance Due** reminder window.
Logo	Logo, which is displayed in the WirelessProfessional software between the menu bar and **General**, **Alarm list** etc. tabs. If the distributor does not load his or her individual logo, the WirelessProfessional logo is displayed. Figure 84 shows the Distributor view along with the distributor's logo. Pressing the Search button opens a window for selecting the logo file from within the directory structure. The logo is only adopted in the display once the Save System Data button has been clicked on. The Reset button resets the logo to the WirelessProfessional logo.
Maintenance notification	The WirelessProfessional software displays maintenance notifications at the times defined by the maintenance interval. The **Maintenance** view can only be called up via the Help menu if **Maintenance notification** is selected.
Next maintenance	Time at which the WirelessProfessional software displays the reminder window for the system maintenance due. Once maintenance has been completed, the date for the next maintenance is increased according to the maintenance interval.
Maintenance interval	Time between completed maintenance and the next maintenance notification.
Maintenance password protected	Password that has to be entered in the **Maintenance** view in order to be able to complete the maintenance. The maintenance password is generated automatically by the WirelessProfessional software from the address of the USB coordinator and cannot be chosen by the user.
Maintenance plan 1-3	File paths to the maintenance plans and texts of links to the maintenance plans in the **Maintenance** view
Send maintenance emails	If the checkbox is ticked, sends emails containing a reminder that the maintenance date is due.
Reduce capacity test duration	The time over which the capacity test is run can be reduced here from the full measurement period to 2/3 of the measurement period.
Error Reset	Activating this function permits the corresponding user level to reset error messages that are issued by the WirelessProfessional system.

Table 33: Boxes in Distributor view

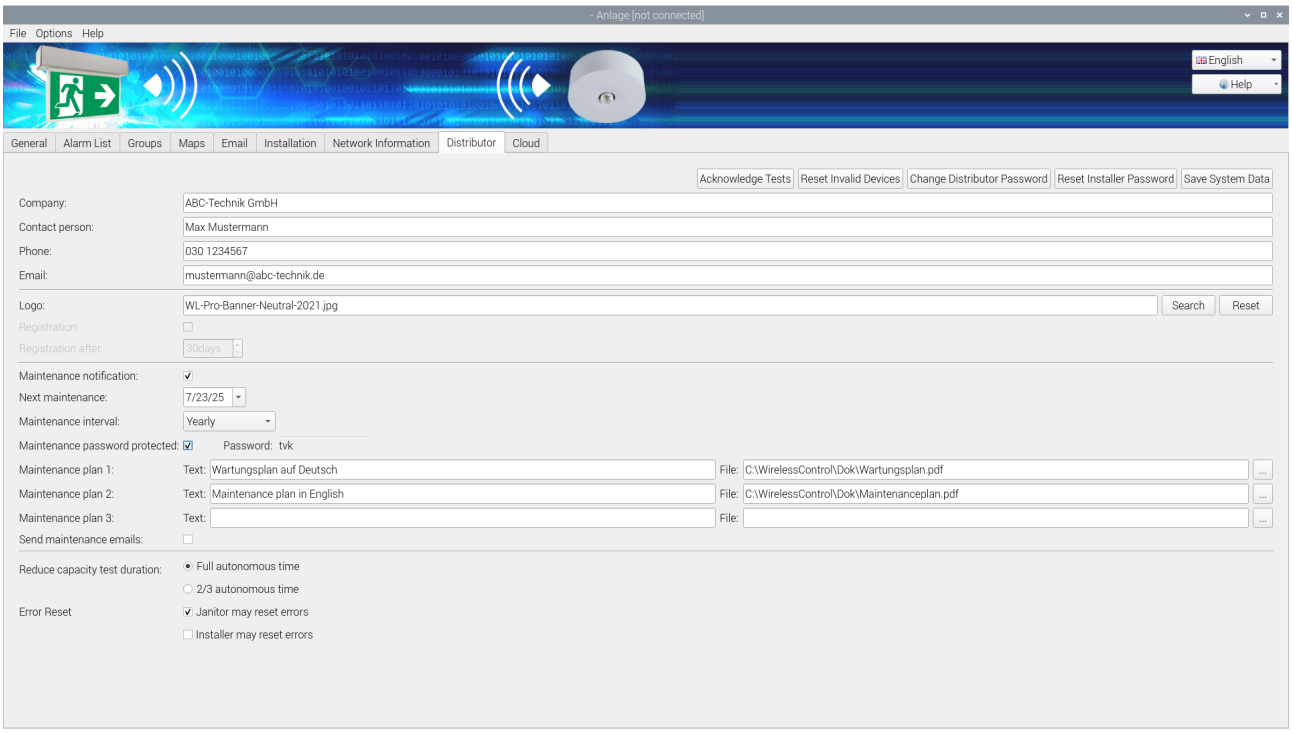


Figure 84: Distributor view, distributor user level

The functions listed in
Table 34 can be performed using the buttons in the **Distributor** view.

Button	Function	User level
Acknowledge Tests	Removes all entries of failed test results (capacity test, function test) from the **Alarm List** view. The failed test results are not removed from the test run progress and the fact that the **Acknowledge Tests** function has been run is entered in the test run progress. Should there be emergency luminaires with a failed test result, the test in question assumes an orange colour symbol in the device details window for the emergency luminaire and the error is displayed as "acknowledged" when the cursor is held over the colour symbol. The **Acknowledge Tests** function serves to allow the distributor to exit the customer's system without error messages if errors have arisen during a capacity test and the errors have been remedied but the emergency luminaires need charging for 20 h before the next capacity test.	Distributor
Reset Invalid Devices	Registers the firmware of invalid devices in the system. The **Invalid device** error message may appear if the firmware of a device already installed in the system is being updated.	Distributor
Change Distributor Password	Change the distributor password	Distributor
Reset Installer Password	Reset the installer password to 2222	Distributor
Save System Data	Saves changes to the system	Distributor

Table 34: Functions of the Distributor view

8.16 "Maintenance " View

The **Maintenance** view can only be reached via the **Help** menu or the maintenance notification. The **Maintenance** entry in the **Help** menu is only enabled if the distributor has activated the maintenance function. The **Maintenance** view can be seen at all user levels. Figure 85 shows a screenshot of the **Maintenance** view.

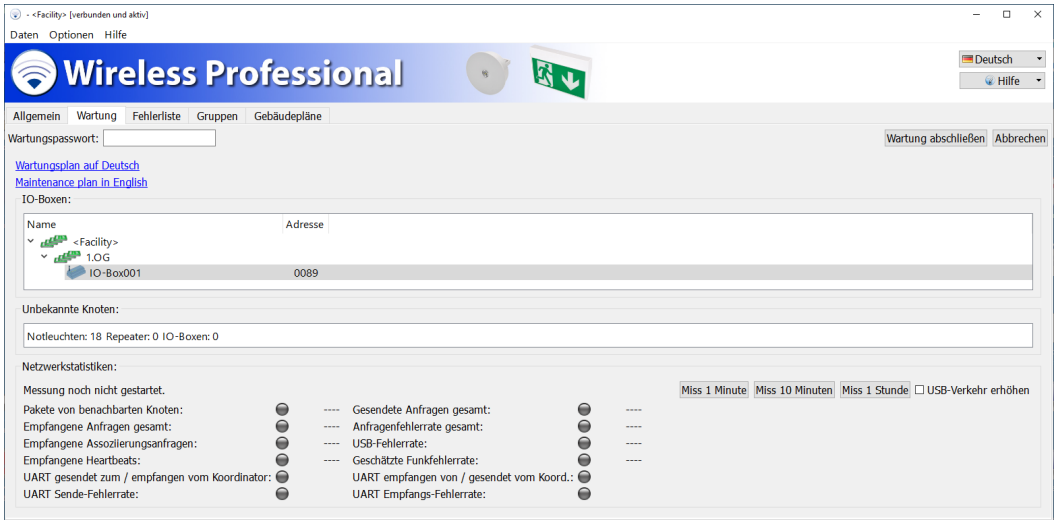


Figure 85: Maintenance view, facility manager, installer or distributor user level

Click or tap on the **Maintenance plan in English** link to open the corresponding maintenance plan. The maintenance plan contains detailed instructions about how to maintain the system.
One element of maintenance is checking that the relays of the IO boxes are fully functional. The system's IO boxes are listed in the **IO Boxes** area. Double-clicking or tapping twice on the entry for an IO box in the **IO Boxes** area opens the device details window for this IO box. The relays can be switched over for the check using the T buttons in the Configuration view (also refer to Section 8.17.3).
Selecting the Confirm Maintenance button ends the maintenance, closes the maintenance window and increases the timer for maintenance to the next maintenance date. In some circumstances, the Confirm Maintenance button is password protected. On the left-hand side of the **Maintenance** view, enter the maintenance password before ending maintenance with Confirm Maintenance.

8.17 Device Details Window

Click or tap twice on a device entry in the **Alarm List**, **Groups** or **Configure Groups** views to open the device details window for the device. This window differs depending on the device type.
The device details window can be opened at all user levels. However, the entries can only be edited at **Installer** user level.

8.17.1 Device Details Window for Emergency Luminaire

The device details window for emergency luminaires allows the name/mounting location of the emergency luminaire to be entered and the operating mode to be switched between non-maintained and maintained operation. The position of the emergency luminaire on the map, its address and the results of the last three tests are displayed in the details window. If you hover the cursor above one of the colour symbols of the test results or tap on them, the time of the test and the result are displayed in plain text.

The luminaire transfers the time of the last reset to the control centre. A reset happens when the power supply fails (excessive discharge).

The Information tab contains not only information about the set operating mode and set duration for tests but also information about the up time. The up time indicates the time since the last power supply failure or luminaire reset. A capacity test is only carried out after an up time of more than 20 hours.

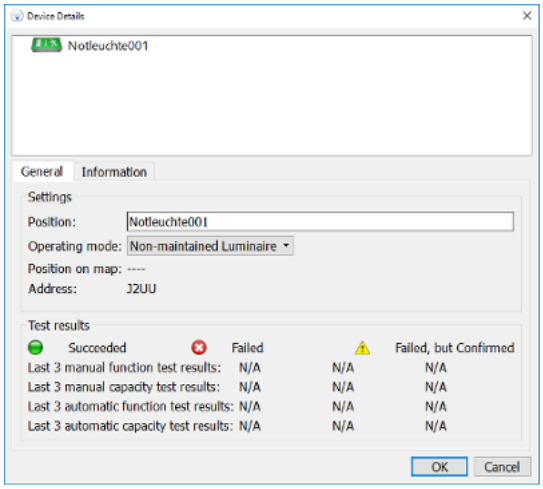


Figure 86 Device details window for emergency luminaire General tab

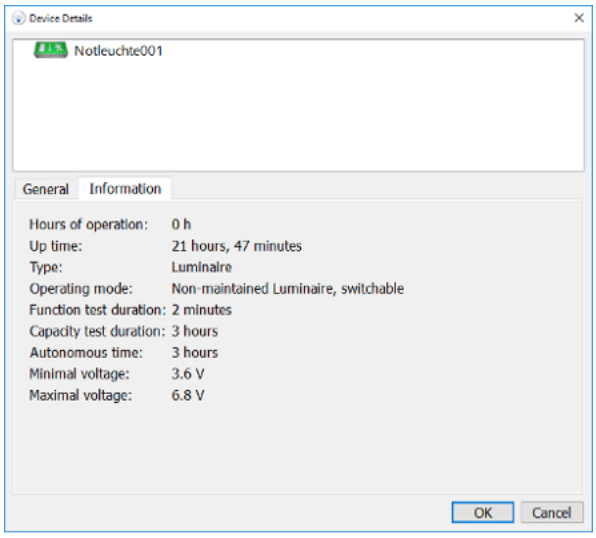


Figure 87 Device details window for emergency luminaire Information tab

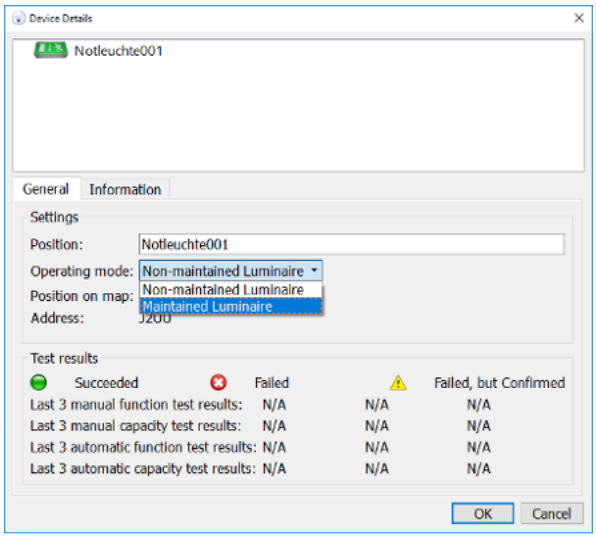


Figure 88: Device details window for emergency luminaire operating mode

Device type	Function
Maintained Luminaire	Luminaire for continuous lighting and for instances when the power supply to the general-purpose lighting fails
Non-maintained Luminaire	Luminaire for instances when the power supply to the general-purpose lighting fails

8.17.2 Device Details Window for Repeaters

In the **Device Details window** for repeaters, you can set the name/mounting location of the repeater and display its position on the map as well as its address.

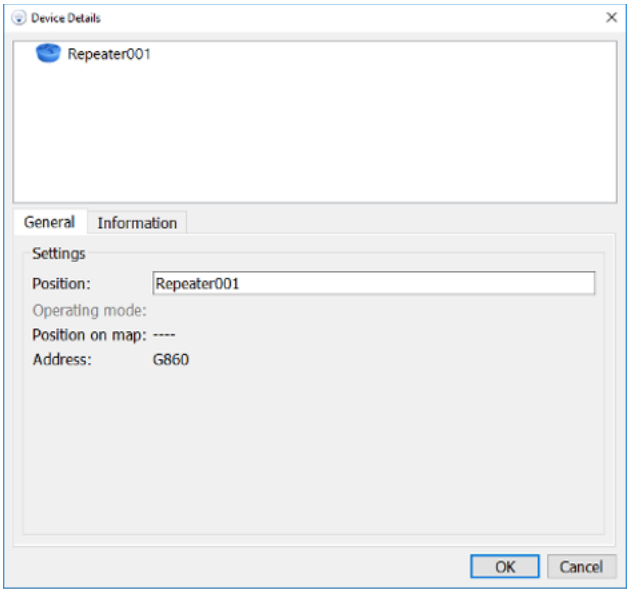


Figure 89: Device details window for repeaters

8.17.3 Device Details Window for IO Boxes

In the General view in the Device Details window for IO boxes, you can set the name/mounting location of the IO box and display its position on the map as well as its address. The current status of the mains voltage at the IO box, the switching status of the three outputs (K1-K3) and two inputs (E1, E2) can also be shown using the same colours as the displays on the IO box.

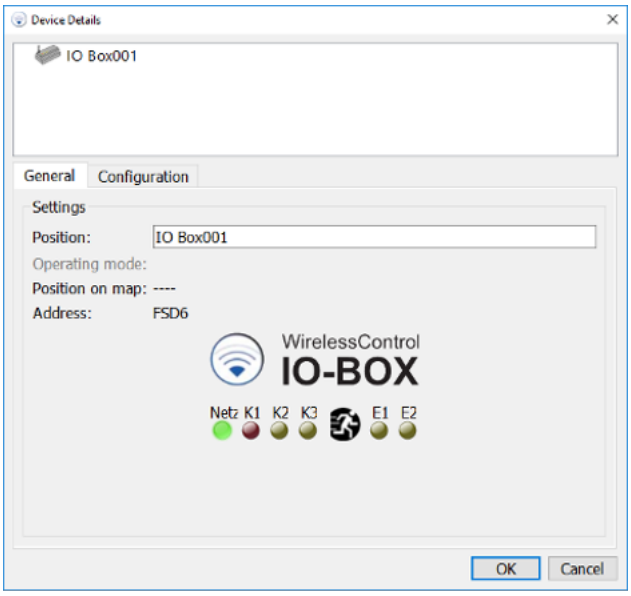


Figure 90: Device Details window for IO boxes, General view

The IO box's inputs and outputs can be configured in the **Configuration** view of the Device Details window for IO boxes.

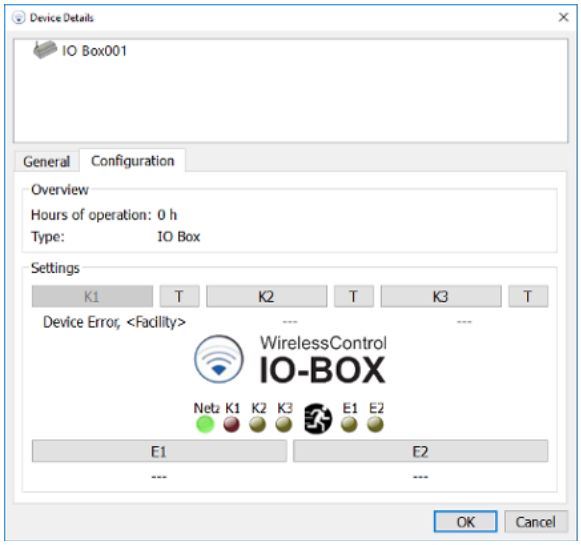


Figure 91: Device Details window for IO boxes, Configuration view

In the **Configuration** view, select the K2 or K3 buttons to configure outputs 2 or 3 on the IO box. Figure 92 shows the window for configuring the outputs. The event, which is to trigger the output switching, is selected in the **Output State** area.
Table 35 explains the meanings of the events listed. In the **Groups applying** area, you can select the groups in which the selected event has to occur in order for the output to be switched. If **Energy Save / Activate**, **Manual Fire Alarm Active** or **Disabled** is selected as the event, the groups selection is disabled because these events always affect the entire system.

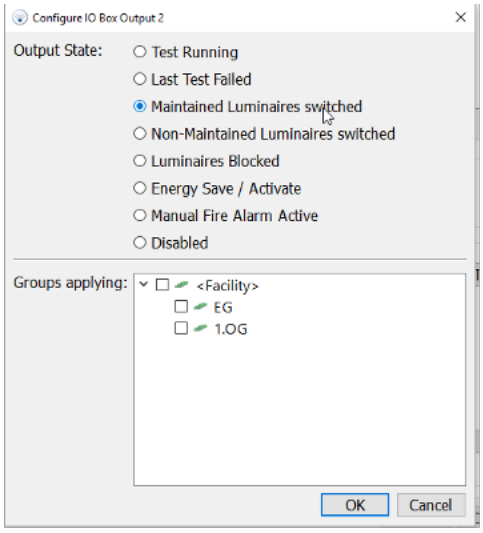


Figure 92: Configuring the IO box output

Event	Function
Test Running	Output is switched for the duration of the test
Last Test Failed	Output is switched as a result of a failed test
Maintained Luminaires switched	Output is switched if at least one maintained emergency luminaire is switched off
Non-Maintained Luminaires switched	Output is switched if at least one non-maintained emergency luminaire is switched on
Luminaires Blocked	Output is switched if at least one emergency luminaire is in remote inhibiting mode
Energy Save / Activate	Output is switched if all switchable emergency luminaires are switched off
Manual Fire Alarm Active	Output is switched if the signal at the fire alarm input on the IO box is enabled
Disabled	Output is disabled

Table 35: Output states of outputs

Output 1 (K1) is always allocated the **Event Device Error** function and cannot be configured. The relay of output 1 de-energises as soon as a device in the system reports an error. The relay of output 1 will only de-energise with the **time to connection error for IO boxes** delay if the radio connection between the IO box and automatic test system is interrupted. The **time to connection error for IO boxes** duration is set in the **Installation/System** view (Section 8.12.5).
The function of the output relays can be checked by pressing the T buttons in the **Configuration** view. The T buttons switch over the relay of the respective output. As soon as the **Configuration** view is exited, the relays of outputs K1-K3 are reset to the switching state, which matches the configuration of the respective output.
In the **Configuration** view, select either the E1 or E2 button to configure the inputs on the IO box. Figure 93 shows the window for configuring the IO box inputs. A name can be assigned in the **Input Name** area. The process which is triggered by the signal at the input is selected in the **Operating Mode** area.
Table 36 explains the operating modes of the inputs. In the Logic level area, select whether the event is triggered by a high level (high-active) or by a low level (low-active) at the input. The groups affected by the process are selected in the **Groups to switch** area. If **Energy Save / Activate**, **Manual Fire Alarm Active** or **Disabled** has been selected as the process, the groups selection is disabled because these events always affect the entire system.

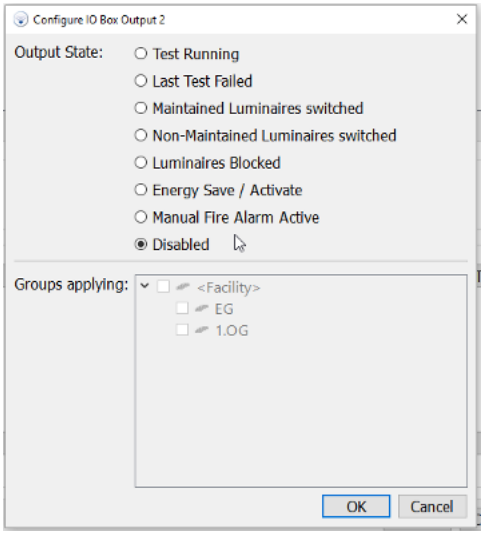


Figure 93: Configuring the IO box input

Operating mode	Function
Switch Maintained Luminaires	Switches maintained emergency luminaires on/off
Switch Non-Maintained Luminaires	Switches non-maintained emergency luminaires on/off
Start Function Test	Starts a function test (only action switch)
Block Luminaires	Puts emergency luminaires into remote inhibiting mode
Energy Save / Activate	Switches all switchable emergency luminaires off / switches all maintained emergency luminaires on
Manual Fire Alarm Active	Switches all switchable emergency luminaires on
Reset Fire Alarm Overrun Time	Ends the overrun time after a fire alarm. (only action switch)
Emergency mode 1h	Switches selected groups into emergency mode for 1 hour (not available in all regions)
Disabled	Disables this input

Table 36: Operating modes of IO box inputs

8.18 Menus

The menu bar is located under the title bar of the WirelessProfessional software window. **The menu bar is not displayed in full-screen mode!** You can use the Alt + Enter key combination to switch between full-screen mode and the normal viewing mode.
A password has to be entered to exit full-screen mode. Once full-screen mode has been exited, login at the user level matching the password is activated.

8.18.1 File Menu

Figure 94 shows a screenshot with the **File** menu expanded.
Table 37 explains the entries in the **File** menu. The **Inspection Log**, **Communications Log** and **System Log** menu functions correspond to those in the **Alarm List** view.

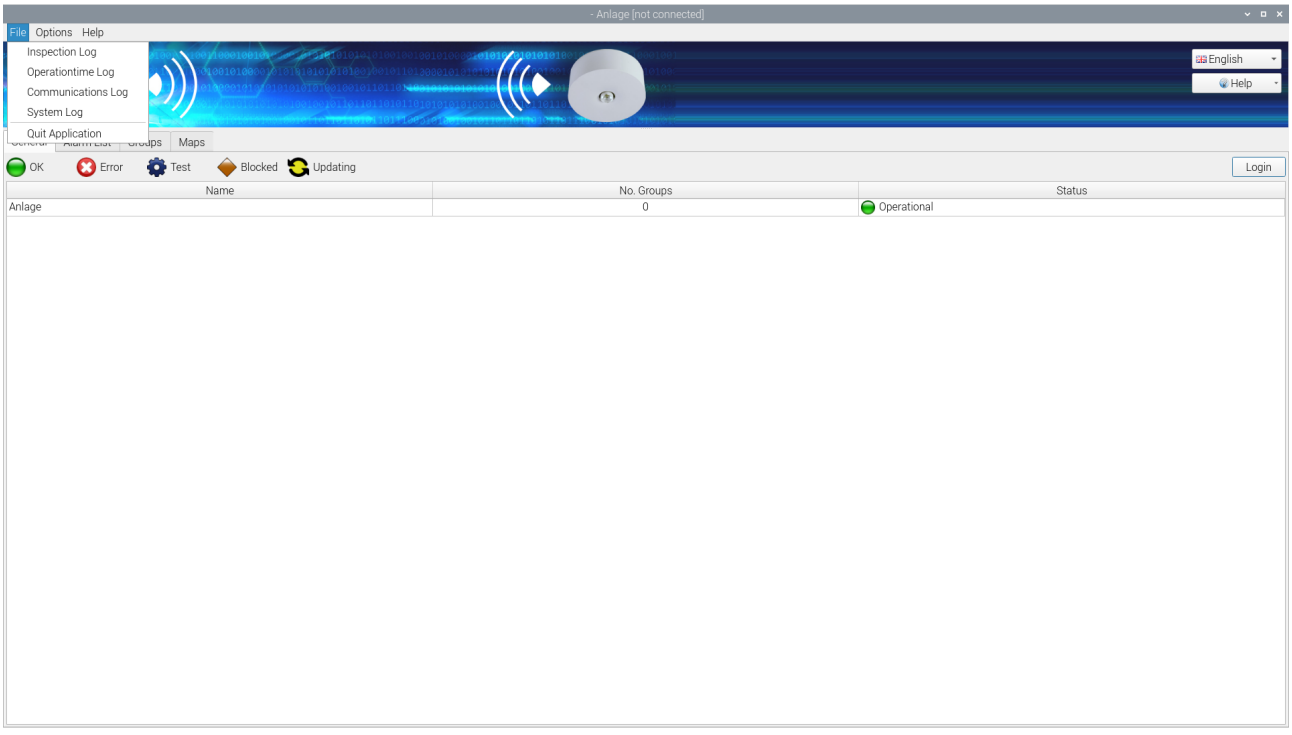


Figure 94: File Menu

Menu entry	Function
Inspection Log	Opens the test run process. See Section 0 Eine Funktions- oder Dauerprüfung kann nur dann gestartet werden, wenn die Batterien der Notleuchten ausreichend geladen sind (siehe Abschnitte 2.2 und 2.3). Prüfverlauf
Operationtime Log	Not implemented
Communications Log	Opens the communications log. See Section 5.7.2 Kommunikationslog
System Log	Opens the system log. See Section 5.7.3 Systemlog
Quit Application	Closes the WirelessProfessional software

Table 37: File menu

8.18.2 Options Menu

Figure 95 shows a screenshot with the **Options** menu expanded. Table 38 explains the entries in the **Options** menu.

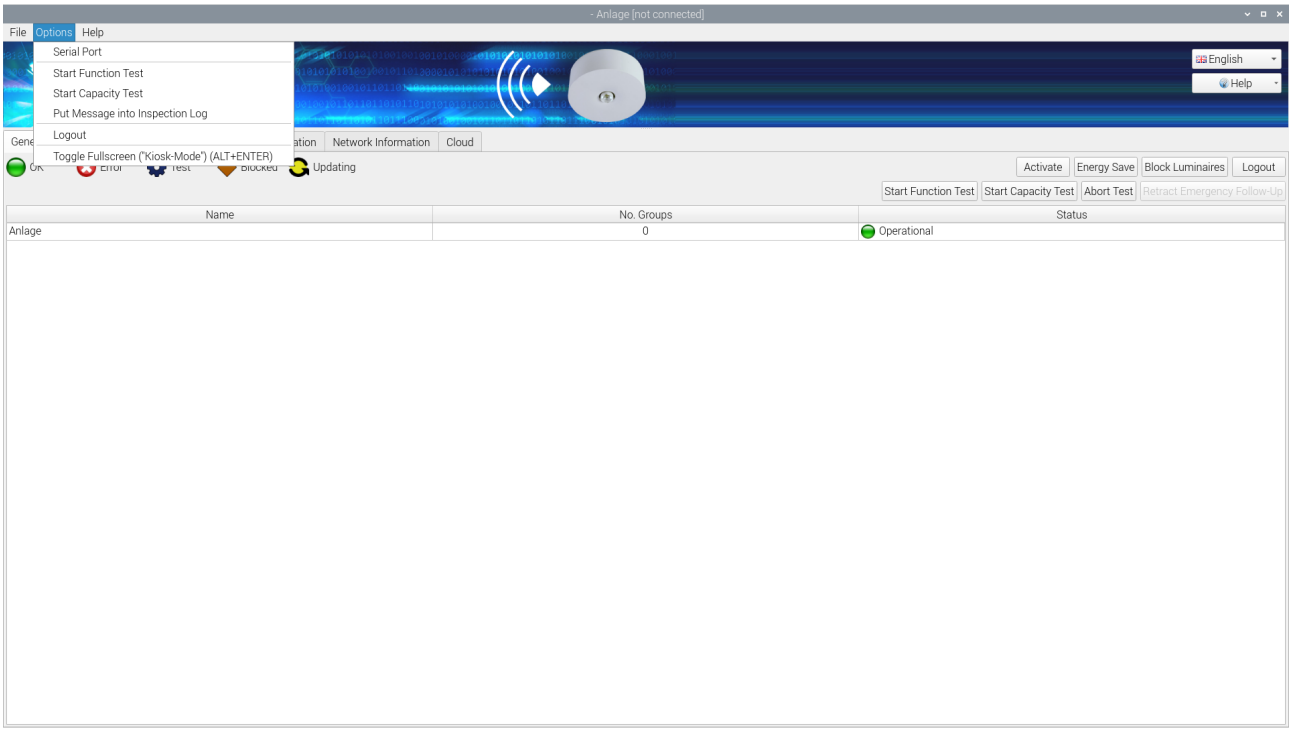


Figure 95: Options menu

Menu entry	Function	User level
Serial Port	Manual selection of port for USB coordinator	Anyone
Start Function Test	Starts a function test for all emergency luminaires	Facility manager, installer
Start Capacity Test	Starts a capacity test for all emergency luminaires	Facility manager, installer
Put Message into Inspection Log	Manual input of messages into test run progress	Anyone
Login / Logout	Login / Logout as facility manager or installer	-
Toggle Fullscreen	Toggles into full-screen mode	Anyone (enable)

Table 38: Options menu

A function or capacity test can only be started if the batteries of the emergency luminaires are adequately charged (see Sections 2.2 and 2.3).

8.18.3 Help Menu

Figure 96 shows a screenshot with the **Help** menu expanded. Tabelle 34 explains the entries in the **Help** menu.

Menu entry	Function
Contact	Shows the installer's contact details.
Show Support Information	Shows the device address of the USB coordinator (device number), the date on which the WirelessProfessional software version was created (build date) and the contact details of the installer and distributor (Figure 97)
Perform Maintenance	Opens the **Maintenance** view. The **Maintenance** entry is only enabled if the distributor has activated the maintenance function
Software Update	WirelessProfessional can be updated as of version 2.1. A corresponding update file can be selected and loaded onto the system in the Software Update view.
Toggle Fullscreen	Software is switched to full-screen mode.
About...	Shows the software version, build date and manufacturer

Table 39: Help menu

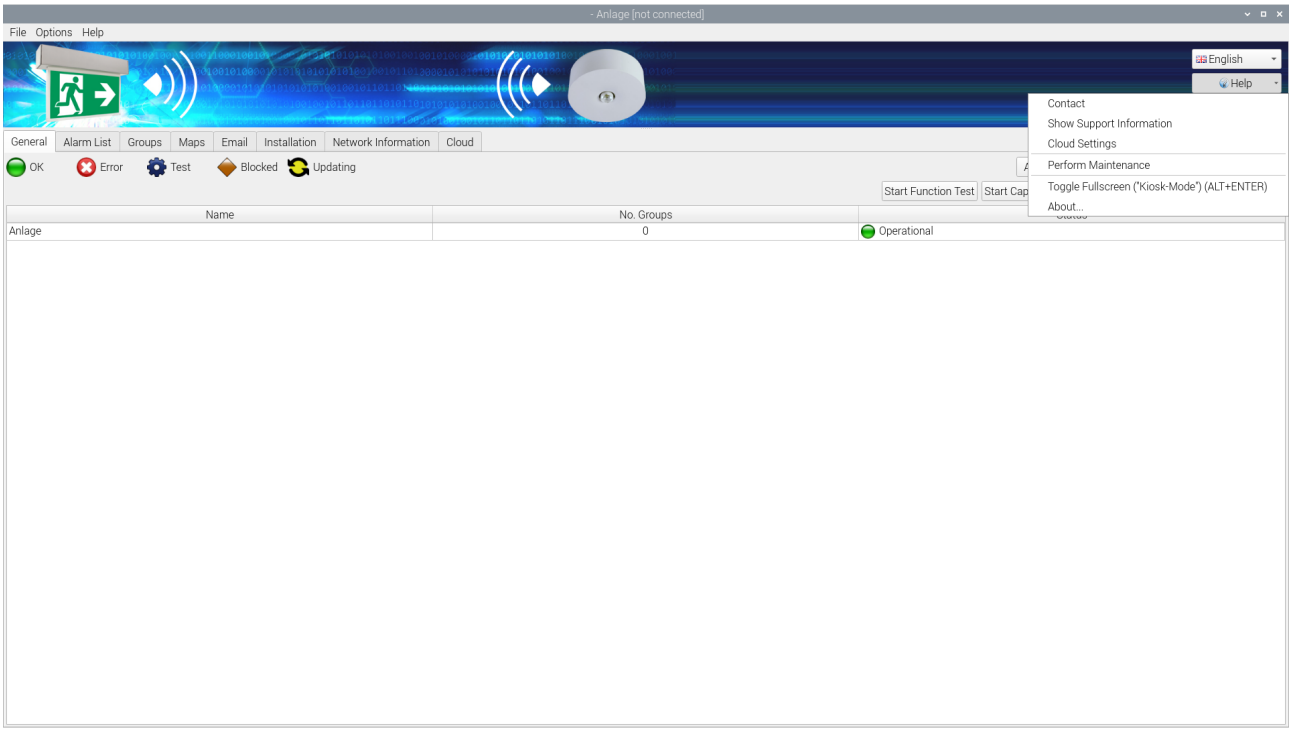


Figure 96: Help menu

There are two ways of accessing the Help menu. Firstly, using the top task bar and secondly on the right-hand side using the button in the banner. There is however one difference between them. If you access via the button in the banner, the software can be switched to full-screen mode but this option is not available under Help accessed using the top task bar.

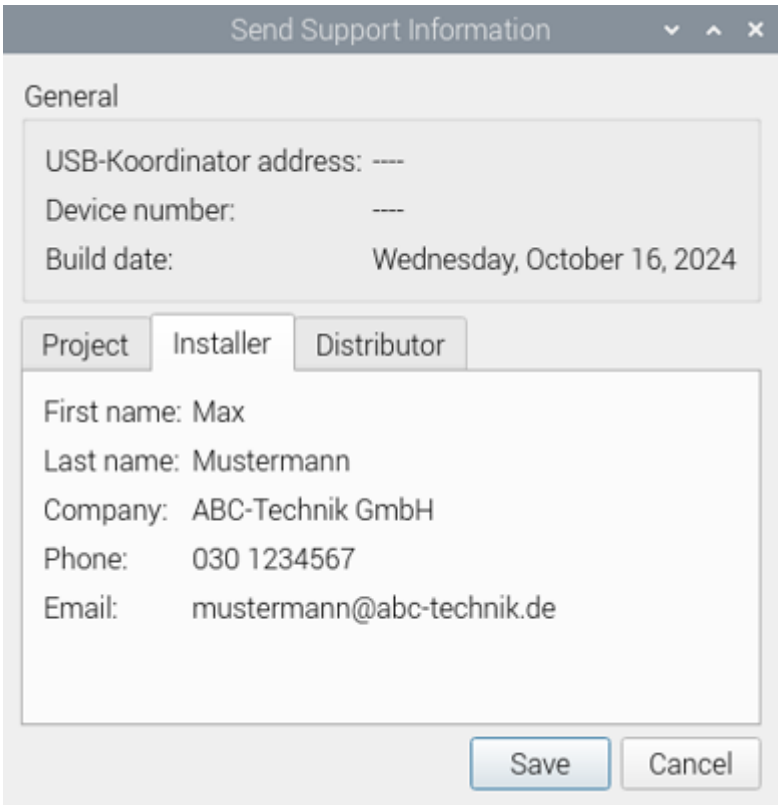


Figure 97: Support information window

9 Other Software

WirelessProfessional systems are supplied with additional programs pre-installed and configured. Consult the user manual of the respective hardware for details.
The WirelessProfessional setup for Windows is supplied with installers for the additional program or the additional program as a portable version (in the most recent version at the time of release). These are also stored in the WirelessProfessional folder. Table 40 provides an overview of the help programs provided.
A licence is needed to be able to use the software in some cases.

Software	Function	Licence
VNC server	Remote desktop software for connections in the local network. Download the client (VNC viewer) from https://www.realvnc.com/download/	Server: licence needed, www.realvnc.com Client: no licence needed
TeamViewer portable	Remote desktop software for connections via the Internet. Download the client (TeamViewer All-in-one) from http://www.teamviewer.com/de/download/index.aspx	Server(host): no licence needed Client: licence needed, https://www.teamviewer.com/de/licensing/index.aspx
RustDesk[4]	Remote desktop software for connections via the Internet.	No licence needed

Table 40: Other pre-installed software

[4] A private relay server based in Europe is run for remote access to WirelessProfessional products. The server ID has to be maintained manually

10 IP Address

For the Wireless Professional software to be able to monitor another device via Ethernet, there must be a network connection between the devices.

Admin rights are needed in the device to set up the network adapter properties. If you do not have these rights, please contact your administrator or distributor.

If the monitoring device is not in the same IP address space as the monitored device, an appropriate route must be created from one IP address space via a gate to the other address space.

The network route is set up in the operating system. Contact your administrator.

A device requiring monitoring can be addressed by the Wireless Professional software both using the DNS and the IP address. For the device to be addressed via DNS, the name server must be entered during network configuration.

The DNS is set up in the operating system. Contact your administrator.

11 Problem-Solving

11.1 During the Installation, a Device Address is Not Shown in the Unknown Nodes Area

Check the following in the order stated:

1. Check that the device is connected to the mains voltage (emergency luminaires: Is the charge check indicator lit up? IO box: Is the green indicator lit up?)
2. If the device is connected to the mains voltage: Go to 2
3. If the device is not connected to the mains voltage: Connect the device to the mains voltage.
4. Check whether the device is transmitting a radio signal. Run the USB coordinator with the PC and WirelessProfessional software next to the device. Check whether the device address is displayed in the **Network Information** view.
5. If the device address is displayed in the **Network Information**: Go to 3.
6. If the device address is not displayed in the **Network Information**: Contact our distributor.
7. Check whether the device address is listed under **Unknown nodes** when you run the USB coordinator with the PC and WirelessProfessional software next to the device.
8. If the device address is listed under **Unknown nodes**: the radio connection to this device is presumably interrupted because the distance between the devices is too great at one or more points in the radio network.
9. If the device address is not listed under **Unknown nodes**, the device has not been correctly registered in this system. To correct this, manually create the luminaire and assign it to the system. Then delete the luminaire again from the system and also from the list of **Unknown nodes**. The luminaire should now automatically appear under **Unknown nodes**.

11.2 Invalid Devices **are Displayed in the Unknown Nodes Area**

The WirelessProfessional software reports invalid devices if the device firmware is not saved in the WirelessProfessional software. This typically happens when new devices produced at a later date are added to an existing WirelessProfessional system. To update the WirelessProfessional software, contact our distributor.

11.3 After the WirelessProfessional Software is Launched, System Remains in Status is being updated Operating Status

The time for which the automatic test system remains in the **Status is being updated** operating status (colour symbol) after a reboot is set by the longer of the two **Time to connection error** and **Time to connection error for IO boxes** times. The **Time to connection error** and **Time to connection error for IO boxes** values can be set in the System view (see Section 5.11.4).

11.4 Forgotten Facility Manager Password

The facility manager password can be reset to **1111** by the installer or our distributor. The facility manager password is reset in the **Installation/System** view.

11.5 Forgotten Installer Password

The installer password can be reset to **2222** by our distributor.

11.6 Luminaire Not Sending Connection Requests / Not Appearing in Unknown Nodes Area

Devices which are not automatically detected by the system can be manually added by the user (see Figure 66 onwards).

11.7 Changing USB Coordinator

1. Disconnect USB coordinator from PC by removing USB coordinator from USB cable.
2. In the software, go to **Installation** → **System** and press the Reconnect All Devices button (see Figure 79).
3. Close the software. In the top left of the software under **File**, go to **Quit Application** and confirm the following message with OK (The USB cache is deleted).
4. Relaunch the software.
5. Connect the new USB coordinator with the PC.
6. Then establish a connection in the software by selecting the serial port (see Section 3.3).

Note: Once the connection to the coordinator has been established, the Wireless Professional software will automatically undertake re-association of all devices by individually disassociating the devices in turn and then re-associating them.

11.8 Reading the Version and Build Platform of the WirelessProfessional Software

The build platform is entered in every log file (inspection log, communication log and system log) when the WirelessProfessional software is launched. This information can also be found in the About window in the Help menu.

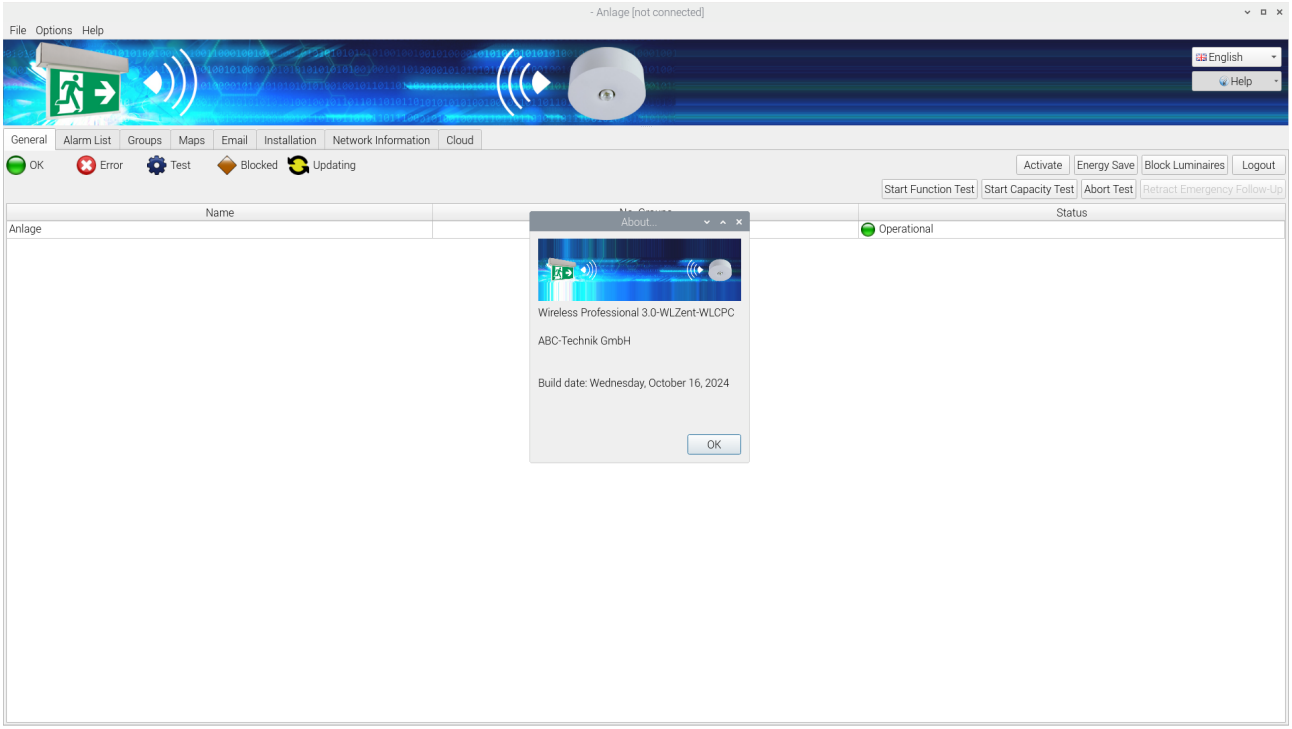


Figure 98 About Window

12 Technical Data

Table 41: Technical data*

Operating frequency	865MHz – 868.6MHz
Tuning range	868MHz +/- 100kHz
Type of modulation	GFSK
Name of transmission	F2DCT (1% duty cycle)
HF channel division	868MHz +/- 50kHz
Transmission bandwidth	300 kHz
Transmission power maximum **effective**	10dBm (10mW) -10dBm (0.1mW)
Indoor range	Min. 30m (for luminaires with plastic casing, repeaters and IO boxes) Min. 24m (for luminaires with metal casing)

*For relevant standards and specifications, refer to declaration of conformity

13 Glossary

Automatic test system (ATS)
Automated test system, which may be triggered by hand, comprising parts (such as internal clock, current detectors, light detectors, selector switches) which are connected together to form a system. This system can perform the routine requirements of tests on emergency luminaires and display the test results (EN 62034:2012)

Autonomy time
In the WirelessProfessional software, the term used for the **rated operating period**.

Battery mode
Status of an emergency luminaire with individual battery, which ensures lighting by supplying power from its in-built current source should the general power supply fail (EN 60598-2-22:1998 + A1:2003)

Rated operating period
Period stated by the manufacturer [of emergency luminaires] for which the rated light current is output (EN 60598-2-22:1998 + A1:2003). Known in the WirelessProfessional software as “autonomy time”.

Rated light current of the emergency luminaire
The light current, which according to the manufacturer is output within 60 s (0.5 s for workplaces subject to particular hazards) after a fault to the general power supply and is output from then until the end of the rated operating period (EN 60598-2-22:1998 + A1:2003)

Fire alarm input
Option for configuring the inputs of an IO box. If the signal at a fire alarm input is enabled, all switchable emergency luminaires are switched on. If the fire alarm signal is switched off, the emergency luminaires remain switched on for the duration of the fire alarm overrun time and only then are they switched off again.

Fire alarm overrun time
Time during which the emergency luminaires remain switched on once the signal at the fire alarm input is no longer enabled.

Capacity test
Test for whether the battery of the safety lighting system is supplying the system in line with the limit values for the rated duration of emergency mode (EN 62034:2012)

Directly addressable IoT device
Directly addressable IoT devices are usually connected to the LAN using their own IP address or have their own direct network connection, e.g. by means of a mobile service, and can act independently or are managed by a central control unit. (SYS.4.4 general IoT device)

Remote inhibiting mode
Status of an emergency luminaire with individual battery which is taken out of operation by a remote control unit when the general power supply is present and the luminaire does not switch to battery mode when the general power supply fails. (EN 60598-2-22:1998 + A1:2003) Remote inhibiting mode is only permitted during idle times in operation. Only switchable emergency luminaires can be run in remote inhibiting mode. If the emergency luminaire loses radio contact with the automatic test system, remote inhibiting mode is ended after 15 minutes. Emergency luminaires in remote inhibiting operation cannot be tested and remain in remote inhibiting mode even in the event of a fire alarm.

Function test
Test to establish that the circuit is intact and that a lamp, changeover device and energy source are running as intended (EN 62034:2012)

Device address
4-digit Base32-coded address, with which a device identifies itself within the wireless system.

Masking
A function of the WirelessProfessional software, which suppresses error messages from masked devices. Masked devices can be recognised as such in the Configure Groups view.

Mains operation
Status of an emergency luminaire with individual battery which is operational in emergency mode when the general power supply is present. In the event of a fault with the general power supply, the emergency luminaire with individual battery automatically switches into battery mode (EN 60598-2-22:1998 + A1:2003)

Emergency lighting
Lighting which takes effect when the power supply to the general-purpose lighting fails (CIE Publication 17.4, EN 60598-2-22:1998 + A1:2003)

Non-maintained emergency luminaire
Luminaire in which the lamps for emergency lighting are only switched on when the power supply to the general-purpose lighting fails (EN 60598-2-22:1998 + A1:2003)

Maintained emergency luminaire
Luminaire in which the lamps for emergency lighting are always continuously powered when general-purpose lighting or emergency lighting is needed (EN 60598-2-22:1998 + A1:2003)

Emergency luminaire with individual battery
Maintained or non-maintained luminaire for emergency lighting, containing all parts, such as battery, lamp, control unit and test and monitoring equipment, if provided. These parts are located in the luminaire or in its direct vicinity (i.e. within a cable length of 1 m) (EN 60598-2-22:1998 + A1:2003)

Fault to the general power supply
Status in which the general-purpose lighting is no longer able to guarantee the minimum light level over the escape routes and in which emergency lighting is to start up (EN 60598-2-22:1998 + A1:2003)

System ID
An ID for the wireless network, which is derived from the coordinator's wireless address and is transferred to all devices in a system.

WirelessProfessional control centre
A unit comprising a PC with WirelessProfessional software and coordinator is known as a control centre.

14 Revision History

WirelessProfessional – Installation and Software Operation		
Date	Software version / Revision	Comments / Important changes compared to the previous version
09.07.2014	1.2.0	Creation
24.09.2015	1.3.0	Update. "Maintenance" and "Other Software" sections added.
13.07.2017	1.4.0	Updates to WirelessProfessional
10.11.2017	1.4.1	Corrections
14.11.2017	1.4.2	Corrections
16.11.2017	1.4.3	Corrections
23.11.2017	1.4.4	Coordinator changes added
01.02.2018	1.4.5	Corrections
19.06.2018	1.4.6	Remote facilities added
21.08.2019	1.4.7	WL Pro Version 2.2, font, “Technical Data” section added
16.09.2019	1.4.8	Changes to fire alarm overrun time in Table 10
07.10.2020	1.4.9	Updates for WL Pro version 2.3
xx.12.2022	1**.5**	Updates for WL Pro version 2.4
02.05.2024	**1.7**	Changes for WL Pro version 2.4.8
20.09.2024	**1.8**	Updates for WL Pro version 3.0

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16 Contact Information

Identification number: 200924
Date of issue: 20.09.2024
This user manual describes software version 3.0
Publisher: RP-Technik GmbH
Hermann-Staudinger-Str. 10-16, 63110 Rodgau, Germany
Technical and editorial content subject to change without notice