

# WirelessProfessional

## *Setup and Operation manual*





# WirelessProfessional

## Setup and Operation Manual

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## 1 How to use this manual

Please keep this manual for future reference!

### 1.1 Technical terms

All technical terms used in this manual are explained in the [glossary](#) at the end of the document.

### 1.2 Formatting conventions

- Terms used by the WirelessProfessional software are set in bold type, e.g. "The **General** tab is part of the tab bar with the **General**, **Alarm List**, **Groups** and **Maps** tabs."
- Software buttons are displayed with a grey background in this manual, e.g. "Select [Login](#) and enter the installer password."

### 1.3 WirelessProfessional software basics

The WirelessProfessional software can be operated using a touchpad, a mouse or a touchscreen.

#### 1.3.1 Tabs

Figure 1 shows the currently selected tab and the tab bar with the **General**, **Alarm List**, **Groups** and **Maps** tabs. The **General** tab is currently selected. In order to select a different tab, use the left mouse button to click on the tab in the tab bar or touch the tab on the touchscreen.

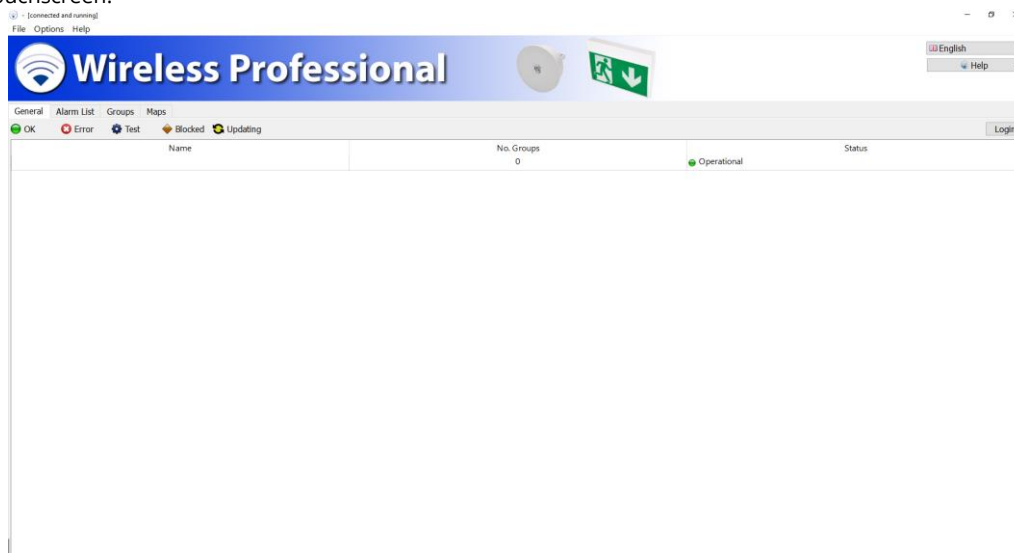


Figure 1: **General** tab

### 1.3.2 How to select items

To select a single item, click on it with the left mouse button or touch the item on the touchscreen (Figure 2).

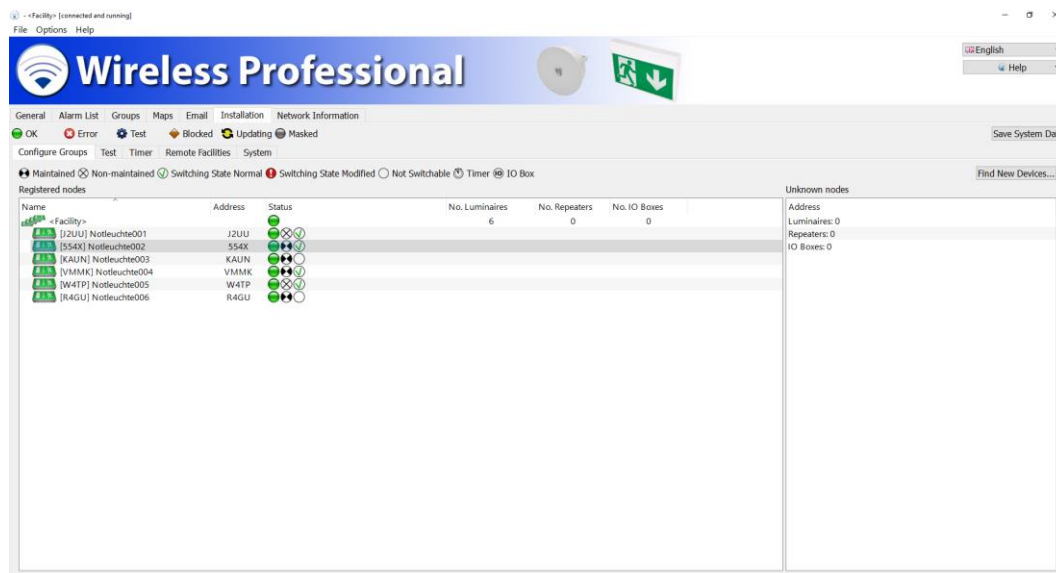


Figure 2: single selected item

To select multiple non-consecutive items, press and hold down the Strg key and then individually click on the items you wish to select or touch them on the touchscreen (Figure 3). Not possible in tablet-mode.

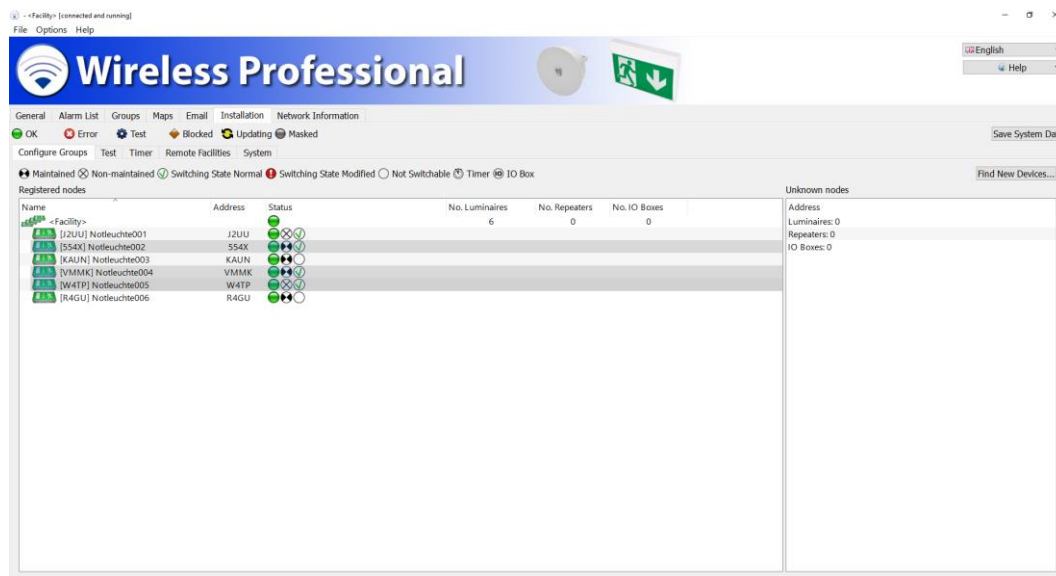


Figure 3: multiple non-consecutive selected items

To select multiple consecutive items, click on the first item or touch it on the touchscreen, press and hold down the Shift key and then click on the last item or touch it on the touchscreen (Figure 4).

To select all items from a list, click inside the list with the left mouse button or touch the touchscreen within the list and then press the Ctrl+A keys together.

Not all tabs in the WirelessProfessional software support all methods mentioned to select items.

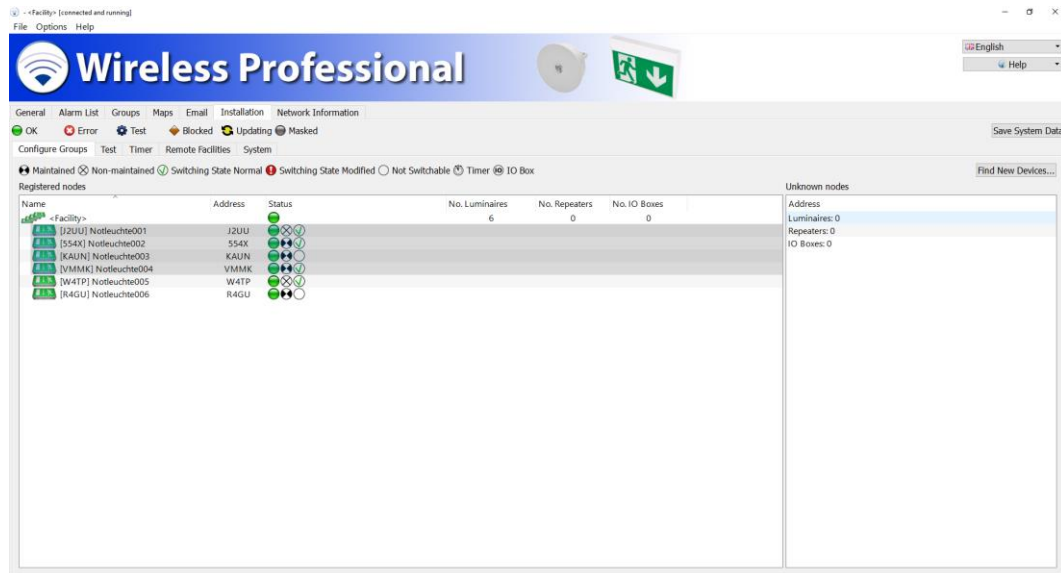


Figure 4: multiple consecutive selected items

### 1.3.3 How to drag items

To drag items, select the items you want to drag, then click on the selected items with the left mouse button and hold the mouse button down. Drag the items to their new location and release the mouse button.

To drag items using the touchscreen, touch the selected items and move them to their desired location using your finger, (Figure 5) then remove your finger from the screen.

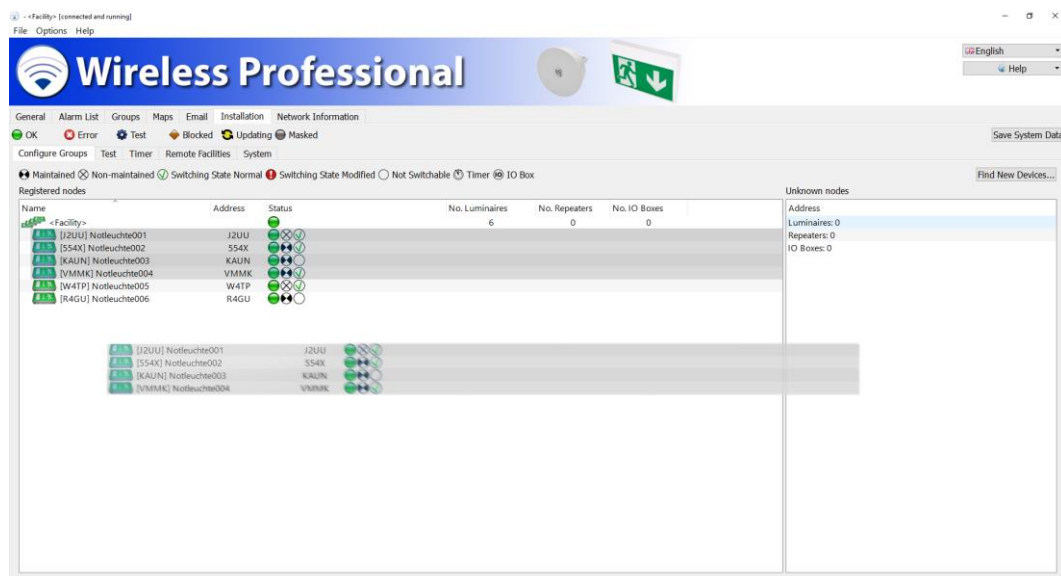


Figure 5: Dragging multiple items

### 1.3.4 Context menu

To open an item's context menu, click on the item with the right mouse button (Figure 6).

To open an item's context menu using the touchscreen, touch the item and hold your finger down until a small square is displayed. The context menu will open once you have removed your finger from the screen.

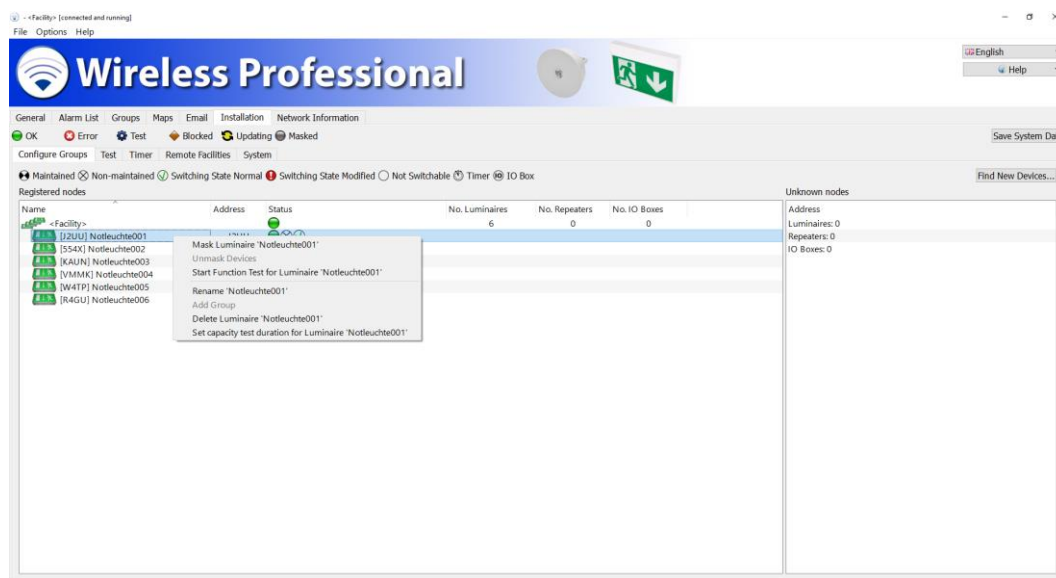


Figure 6: devices context menu



## 2 Introduction to the WirelessProfessional system

The WirelessProfessional system is an automatic test system (ATS) for emergency escape lighting. The system complies with EN 62034. Figure 7 shows the constitution of a WirelessProfessional system. The emergency luminaires as well as other devices set up a wireless network that is used to communicate with the automatic test system. The automatic test system is composed of a computer with the WirelessProfessional software (Figure 7 no. 4) and the USB-Koordinator (Figure 7 no. 3). The USB-Koordinator links up the computer with the wireless network. The wireless network's frequency is 868 MHz.

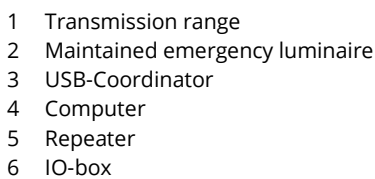


Figure 7: Constitution of a WirelessProfessional system

Each device within the wireless network can communicate with other devices within its range (Figure 7 no. 1). The minimum range of WirelessProfessional devices is 30 m inside of buildings. The range can be larger depending on the attenuation in the building.

In order for data to be transmitted between adjacent devices, a device must be located within the range of the other. All devices must be linked with the automatic test system by a chain of devices that are in range and can pass on data. Figure 8 shows a system with a broken connection to the three devices shown in red. All other devices in the figure are linked with the automatic test system by chains of devices that are in range and can thus communicate with the ATS.

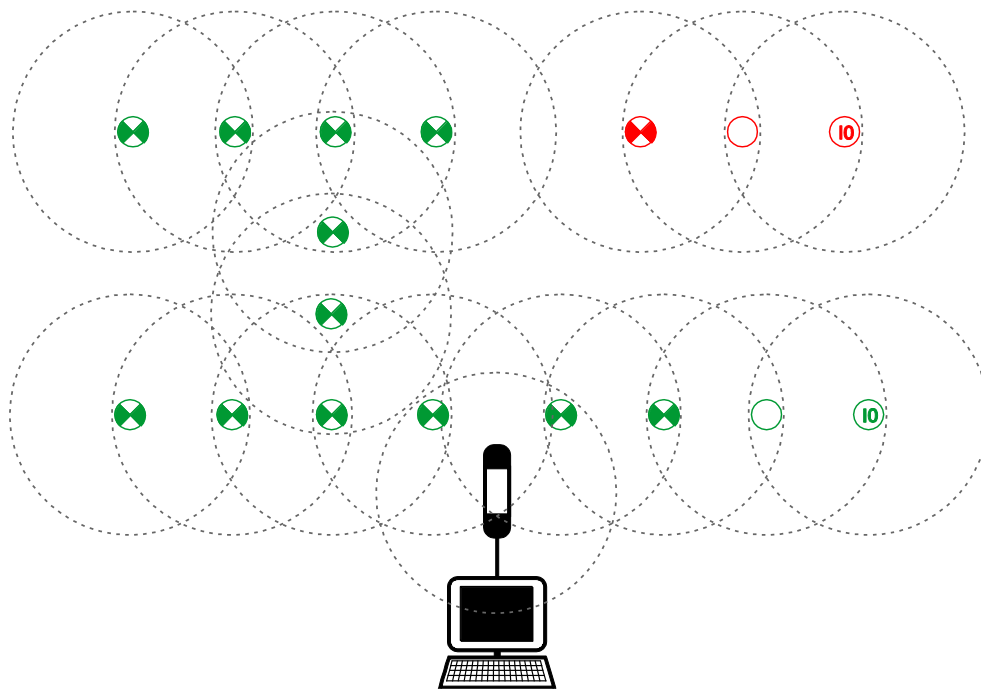


Figure 8: devices connected to the ATS (green) and disconnected devices (red)

Table 1 lists devices that are available for WirelessProfessional systems. Only the devices listed here can be used in WirelessProfessional systems.

Table 1: devices for WirelessProfessional systems

Device	Function
<b>Maintained emergency luminaire</b>	Luminaire in which the illuminant is lit at all times when normal or emergency lighting is required
<b>Non-maintained emergency luminaire</b>	Luminaire in which the illuminant is lit only in operation when the mains power supply to the general lighting fails
<b>IO-Box</b>	Device with digital inputs/outputs. The device can switch outputs according to system status and external sources can trigger system functions
<b>Repeater</b>	Used to bridge the gap between two devices if the devices are out of range

Every WirelessProfessional device has a unique alphanumeric four-digit address. The address is marked on all WirelessProfessional devices. In a WirelessProfessional system the address is used to identify a device and to relate the installation location. A WirelessProfessional system can comprise up to 1000 devices. A larger number of devices can be split up into multiple WirelessProfessional systems.

## 2.1 Start-up after a supply failure

In the event of a supply failure the emergency luminaires change over to emergency mode. After the supply is restored, the computer must be restarted with the on/off-button in order to put the automatic test system back into operation. Login to the user account and the WirelessProfessional Software will start up automatically.

## 2.2 Conducting a duration test

A duration test of the WirelessProfessional emergency luminaires can only take place if the last supply interruption (supply failure, fuse failure, duration test) was at least 20 hours ago.

## 2.3 Processor-controlled emergency luminaires

The battery charge in several WirelessProfessional emergency luminaires is controlled via a microprocessor. If the battery is not charged according to the required end of charging voltage, a functional or duration test cannot take place. Luminaires with this feature are described as "processor-controlled emergency luminaires" or as luminaires with "integrated SelfControl monitoring" in the respective attached instructions.

### 3 Installation

#### 3.1 Prior to automatic test system start-up

Prior to start-up of the automatic test system, all emergency luminaires and other devices should be assembled in the building and their addresses should be registered in the floor plan. For this you can use the 3rd address label, which is included in each device. All devices that will be added to the WirelessProfessional system must be mains-operated during system setup. EN 62034 requires a complete duration test to be carried out at automatic test system start-up. The emergency luminaire batteries must be fully charged (for a minimum of 20 hours) in order for the duration test to take place. Ensure that all the emergency luminaires have been mains-operated for at least 20 hours before the first duration test on the automatic test system is started.

#### 3.2 Operation of the WirelessProfessional software

If you are not familiar with operating the WirelessProfessional software, it is essential that you read section 1.3 concerning the basics of operating the software before start-up begins.

#### 3.3 Computer and USB-Coordinator connection

- Connect the computers power supply to an outlet and connect the computer to the power supply.
- Connect the USB-Coordinator to an unused USB port.
- **Important:** Use the USB cable included in the delivery to connect the USB-Coordinator with the computer. Do not connect the USB-Coordinator via an USB hub.
- Start the computer with the on/off button.

Login to the Windows user account and start-up of the WirelessProfessional software take place automatically. The software will connect to the USB-Coordinator and the text in the title bar changes from **[not connected]** to **[connected and running]**. If the software does not connect to the USB-Coordinator automatically, a manual setup of the serial port as described in the following section is necessary.

At the top left of the screen, click **Options** and then **Serial Port** or click the index tab **Installation** and then **System**. Here you can reach the selection menu of the serial interface via the button **Serial Port**.

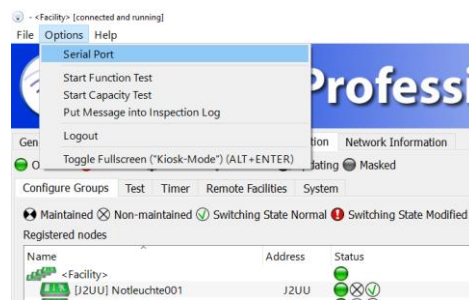


Figure 9: Selection menu Serial Port via **Options**

In the following windows click on the black arrow to open the selection menu, choose **USB Serial Port** and confirm your selection with **OK**. Afterwards, the title bar of the application window should have changed to **[connected and running]**.

**Note:** The correct selection of COMx depends on the USB slot where the USB-Koordinator is plugged in.

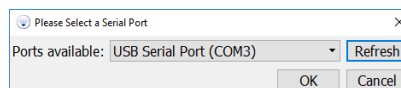


Figure 10: Select the Serial Port

### 3.4 Changing the password

- Press **Login** and enter the installer password. The installer password is factory-set to **2222**.
- Select the **Installation** tab. Select the **System** tab from the lower tab bar. Click the **Change Installer Password** button.

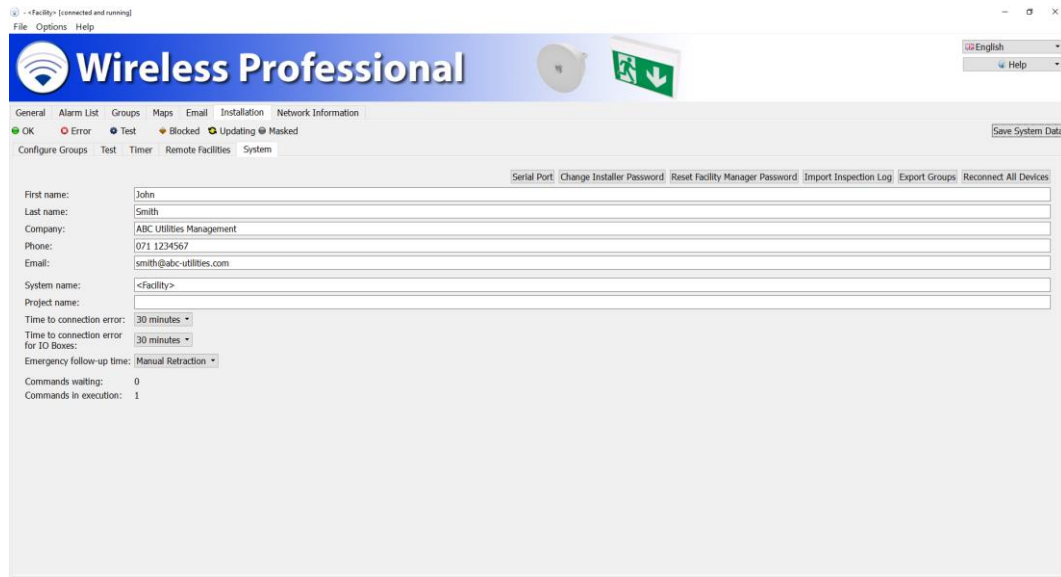


Figure 11: Change password

- Enter the factory-set installer password. Enter a new password, re-enter the new password. Write down the new password.

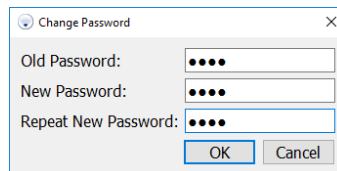


Figure 12: Enter password

### 3.5 Entering contact details and the system name

- Enter your contact details into the **First Name**, **Last Name**, **Company**, **Phone** and **Email** fields.
- Fill in the **System Name** field.
- Click on **Save System Data** to complete the setup.

### 3.6 Registering devices in the system

- Select the **Installation** tab. Select the **Configure Groups** tab from the lower tab bar. The **Unknown nodes** section shows the devices that are connected to the automatic test system, but are not yet registered in the system. Make sure that all devices installed in the building are connected to the power supply and wait until all the devices are listed in the **Unknown nodes** section.

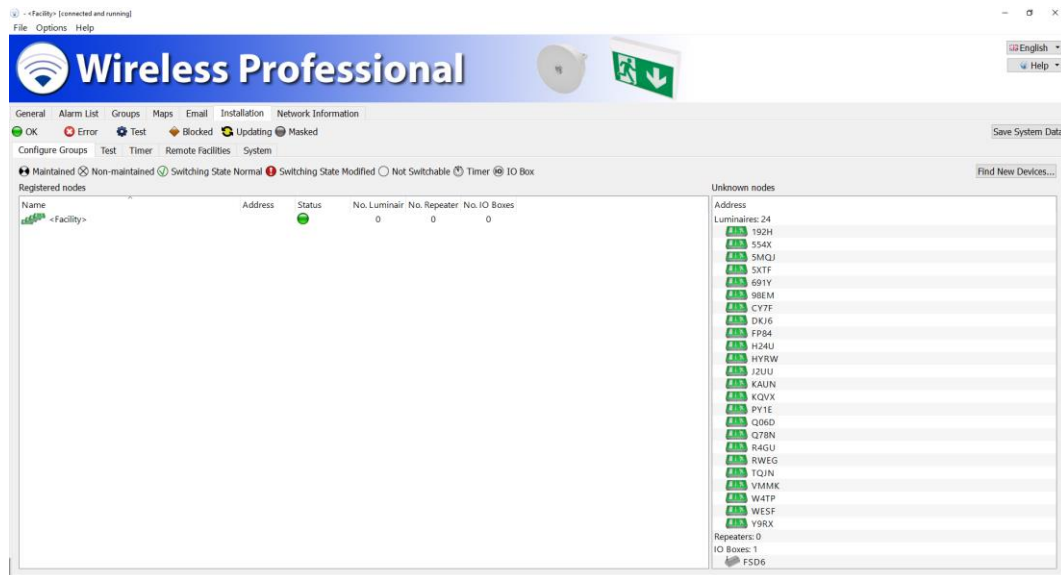


Figure 13: Available devices

**Note:** Devices with a radio module beginning with version 2.0 using a changed procedure to register devices. If not all devices are shown up in **Unknown nodes** use the button **Find New Devices...** to start a new search.

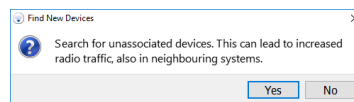


Figure 14: Find New Devices

Confirm with **OK** to find new devices on your system.

- To register all devices in the system, click into the **Unknown nodes** section, select all devices and drag them into the **Registered nodes** section.

**Caution!** During registration of the devices in the system, the USB-Coordinator should be positioned such that less than 50 devices are in direct range of it (refer to section 5.13).

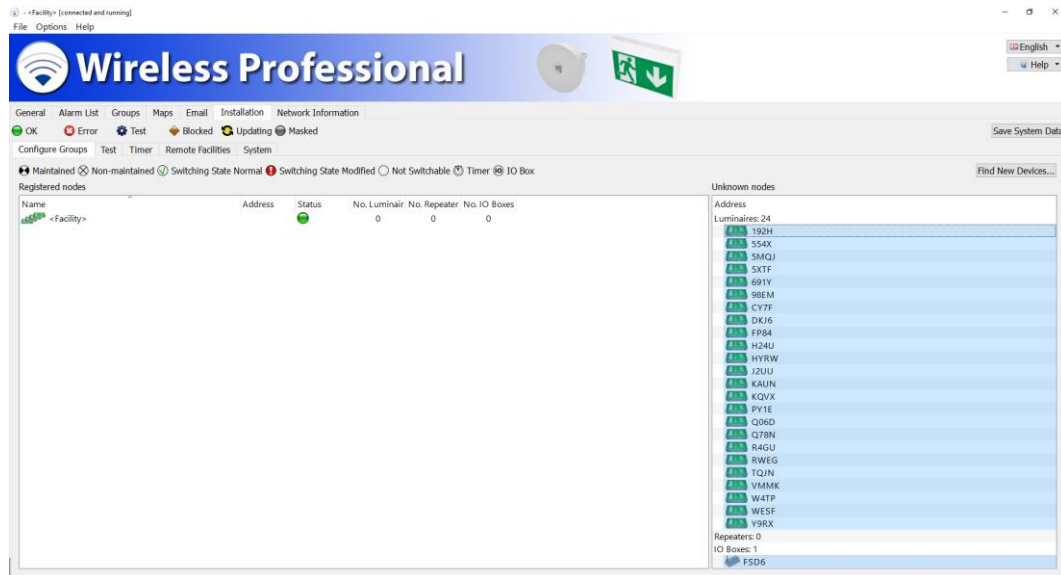


Figure 15: Mark available devices

**Note:** If not all the devices in the **Unknown nodes** section are to be registered in the system: Hold down the Ctrl key and select the devices you want to register in the system by clicking on them. Drag the selected devices into the **Installed nodes** section.

- The WirelessProfessional software will now register the devices in the system. The first row in the **Unknown nodes** section shows the number of devices that are still to be registered (**x devices not associated**). The time needed to register the devices into the system varies according to the layout of the devices in the wireless network and the progress of the registration process. The time for registration can vary from seconds to minutes for a single device.

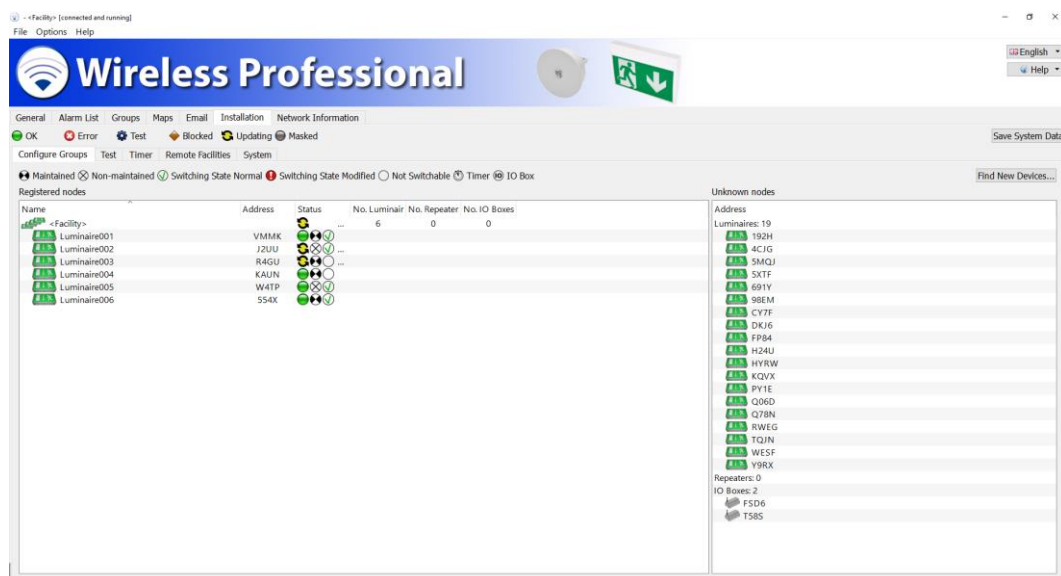


Figure 16: Associate available devices

- After all devices have been successfully registered in the system, the first row in the **Registered nodes** section shows the number of emergency luminaires, repeaters and IO-boxes registered in the system.

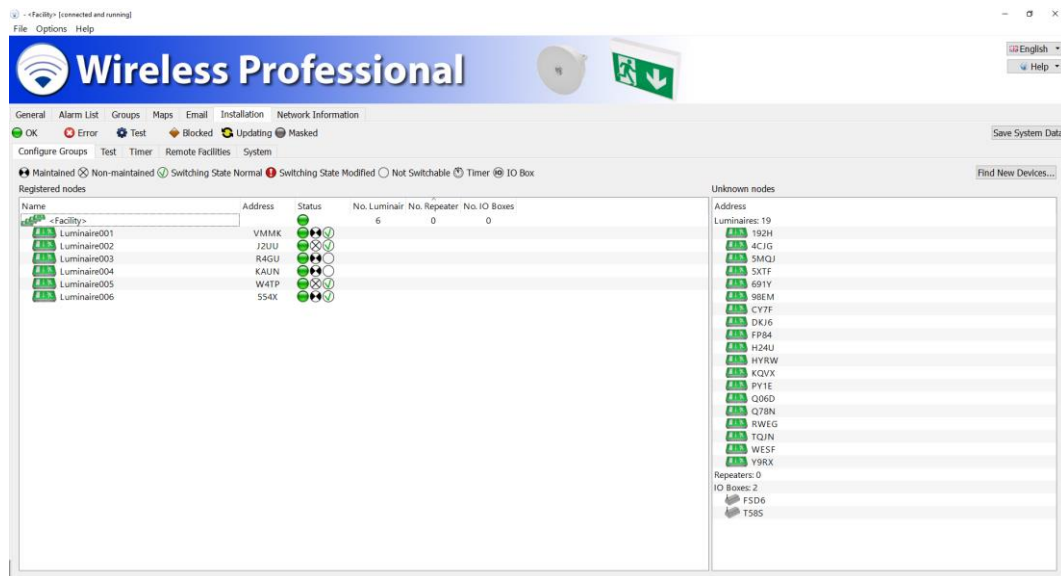


Figure 17: Devices successfully associated

- To change the name of a registered device, open the context menu of the device in the **Registered nodes** section and select **Rename 'NAME'**.

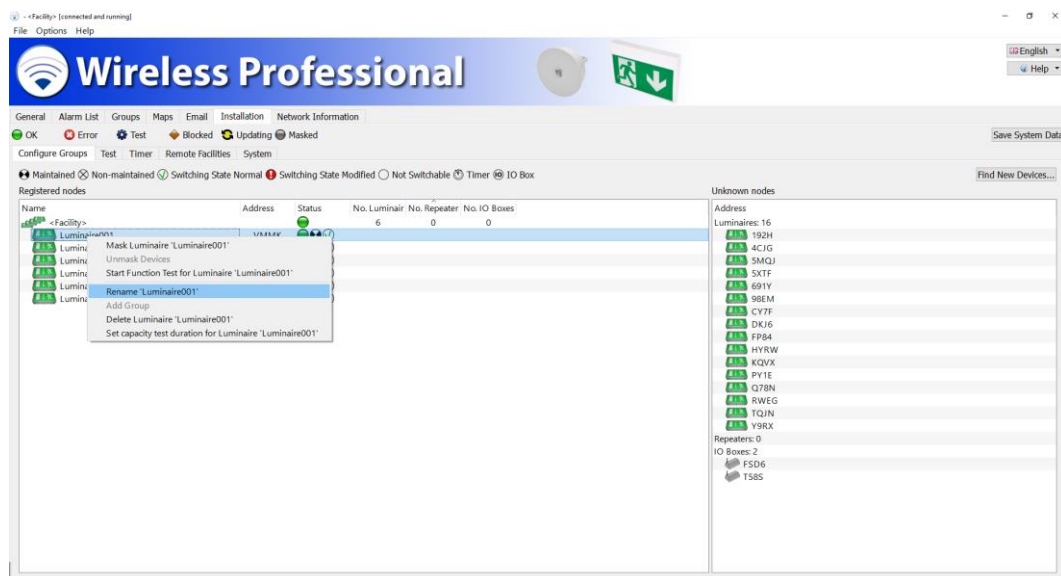


Figure 18: Rename devices

- To change a luminaire's mode of operation between maintained and non-maintained, open the luminaire's Device Details window in the **Registered nodes** section by double-clicking with the left mouse button on the name of the luminaire or by touching the name twice (see also section 5.16.1).
- Click on **Save System Data** to complete the registration of the devices in the system.

### 3.7 Dividing devices into groups

1. If you wish to divide the devices into several groups, open the system's context menu (first row in the **Registered nodes** section) and select **Add group to '<system>'**.

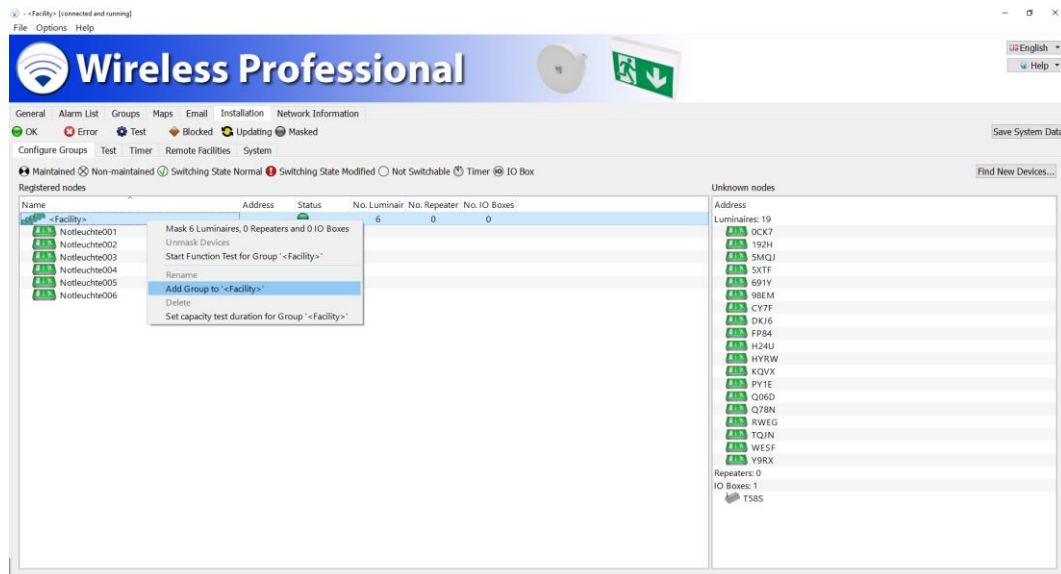


Figure 19: Add a group

2. Enter the group's name in the **Add New Group to '<system>'** window and click on **OK**.

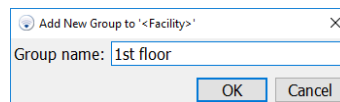


Figure 20: Group name

The new group will be added to the list in the **Registered nodes** section. This list is sorted into alphabetical order which may mean that the added group is not shown in the list's section currently displayed.

3. Press and hold down the Ctrl key and select all devices from the list that you want to add to the new group. Drag the selected devices into the new group. If the new group is not shown in the list's section currently displayed, drag the selected elements to the upper or lower border of the **Registered nodes** section in order to scroll through the list.



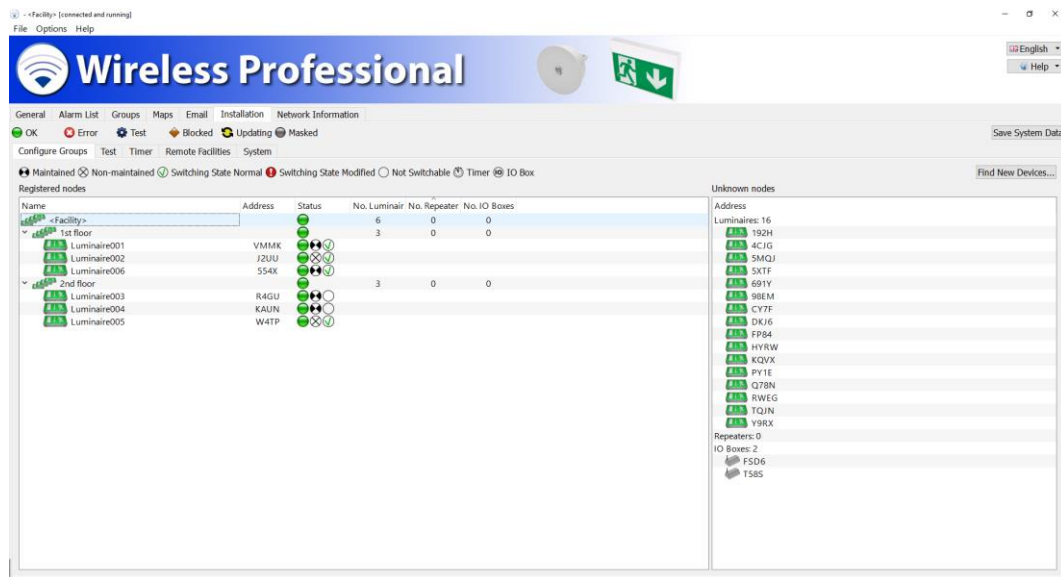


Figure 21: Devide devices into groups

- Repeat steps 1 – 3 until all devices are divided into groups.
- Click on **Save System Data** to complete the division of the devices into groups.

### 3.8 Floor plans

Floor plans can be loaded into the WirelessProfessional software and the registered devices can be placed on the floor plans. In this way the device's installation location can be identified in the software. The floor plans must be in .png, .bmp or .jpg format. The maximum size of the floor plan is 10 megapixels. Floor plans larger than this cannot be loaded into the WirelessProfessional system.

#### 3.8.1 Loading floor plans

1. Select the **Maps** tab.

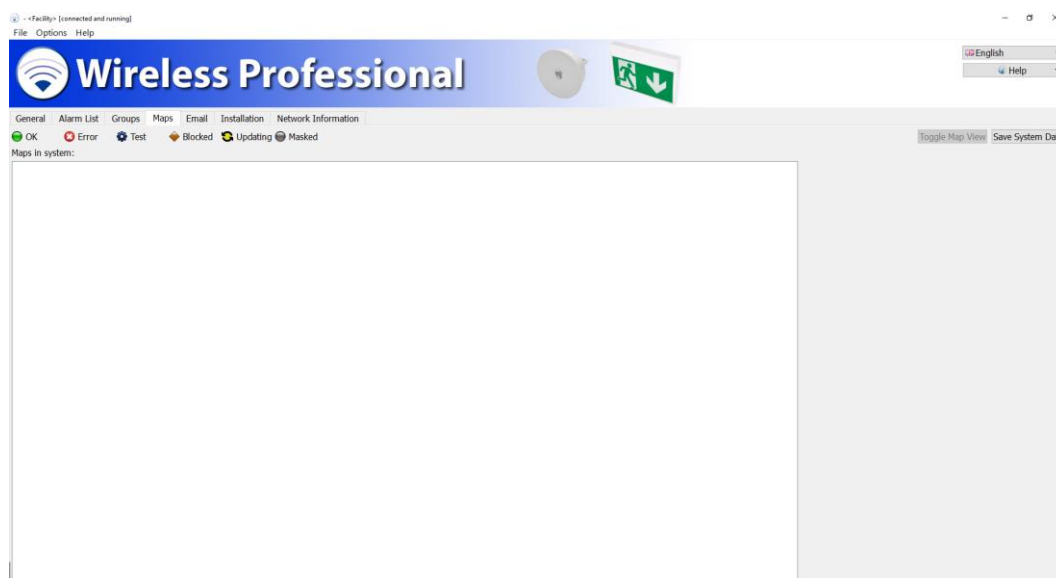


Figure 22: Maps general

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

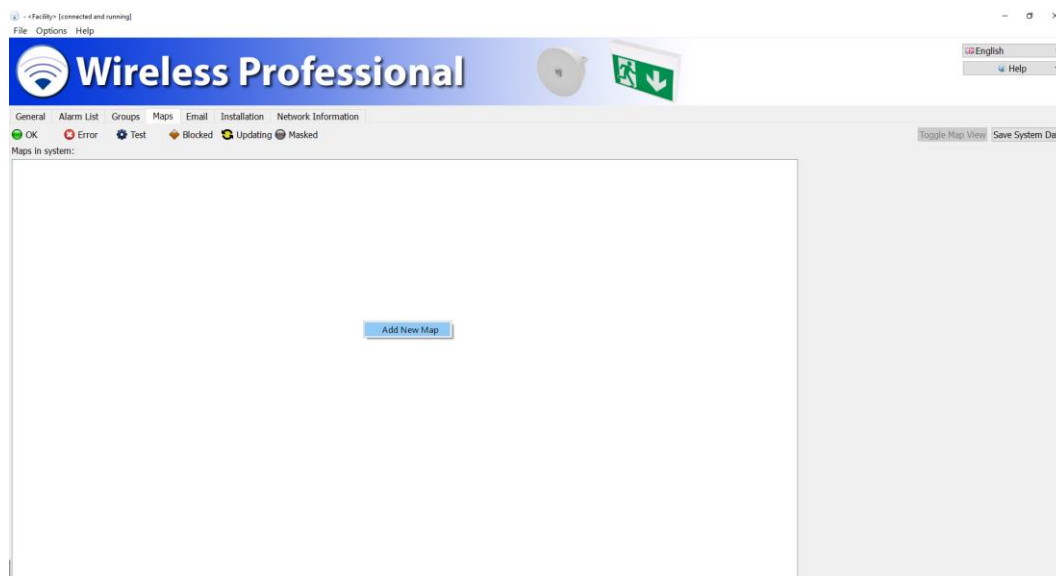


Figure 23: Add new map

3. Select the storage medium your floor plans are stored on in the **Select a Map Image** dialogue window. Select all the floor plans you wish to add and click on **Open**.

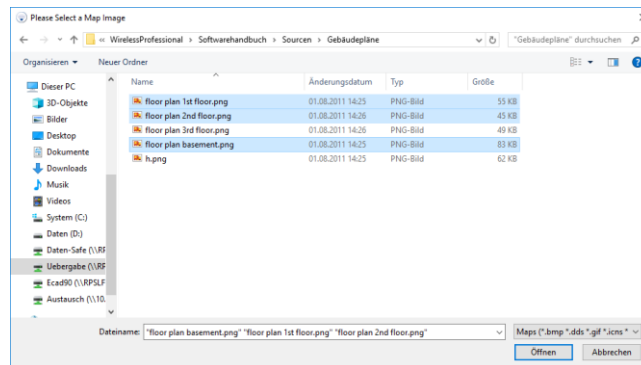


Figure 24: Choose floor plan

4. Open the context menu of one of the added floor plans and select **Rename Map '<name>'**.

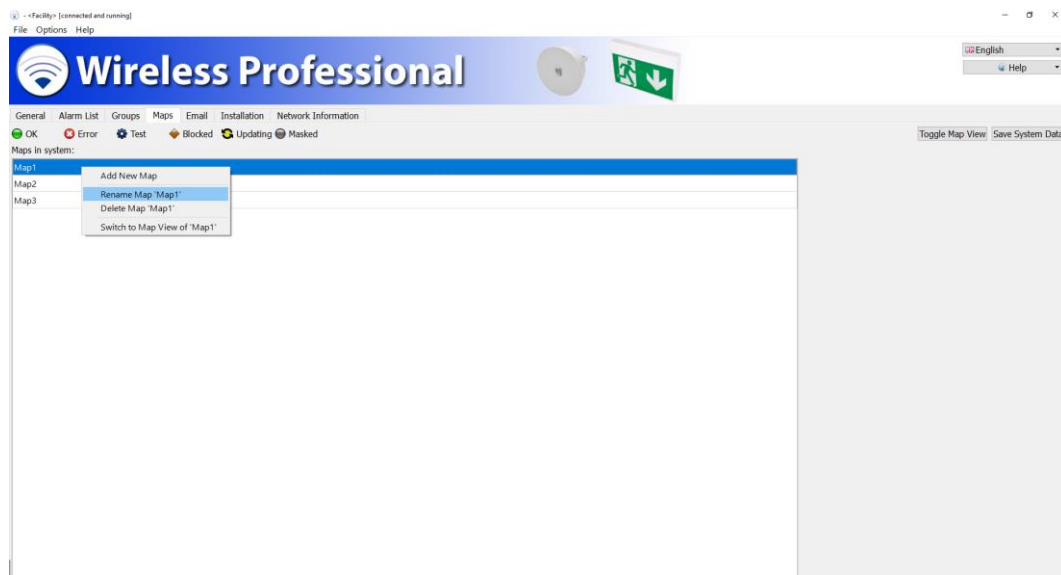


Figure 25: Rename floor plan

5. Enter a meaningful name for the floor plan and click on **OK**.
6. Repeat steps 4 and 5 for all the floor plans.

### 3.8.2 Placing devices on the floor plans

- Click on **Toggle Map View**.

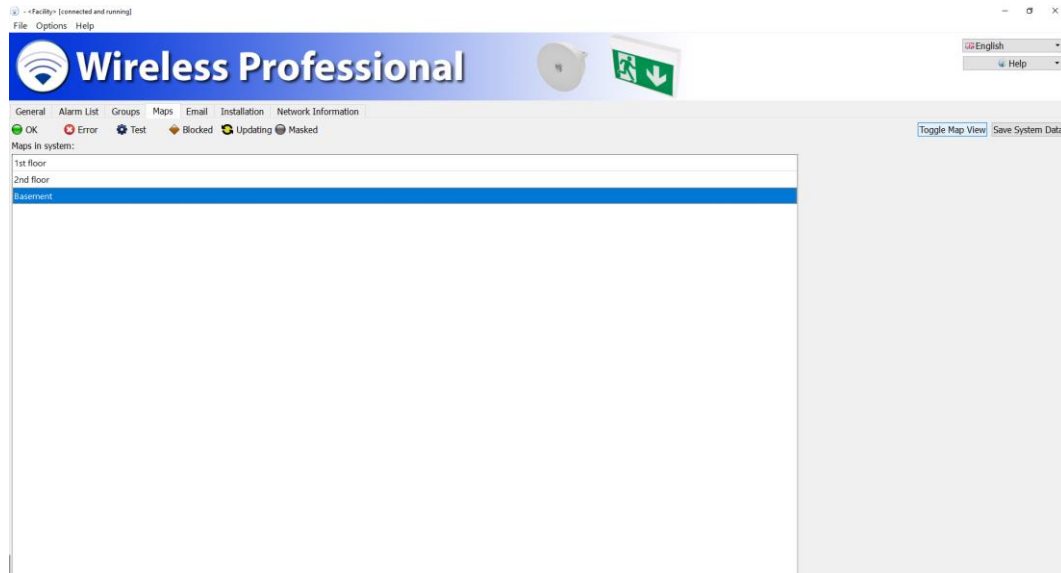


Figure 26: Toggle map view

- Select the floor plan you wish to place devices on from the drop-down list.

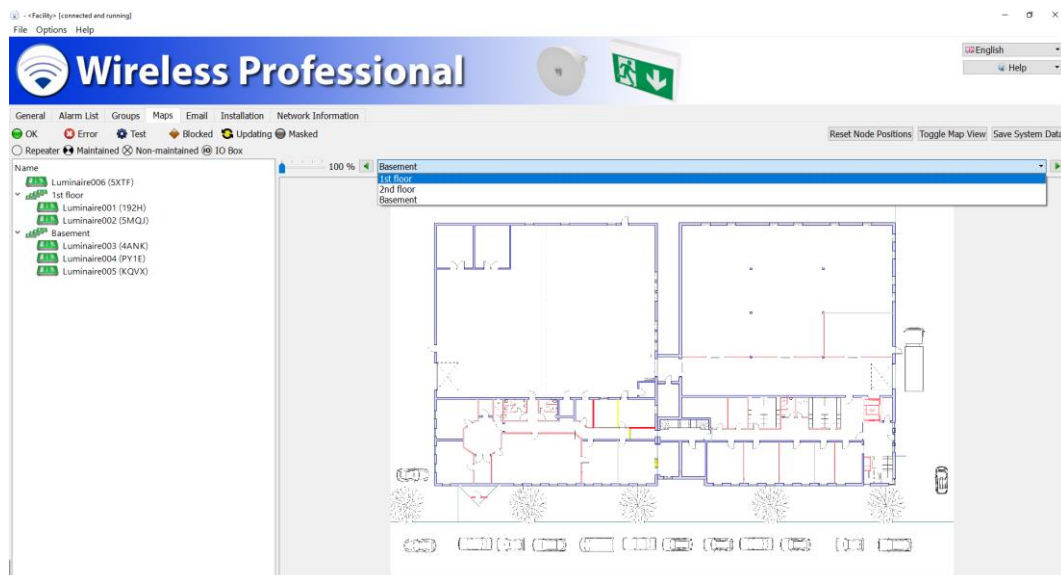


Figure 27: Select floor plan

2. Use the slider to adjust the magnification and use the scroll bars to select the displayed floor plan detail.

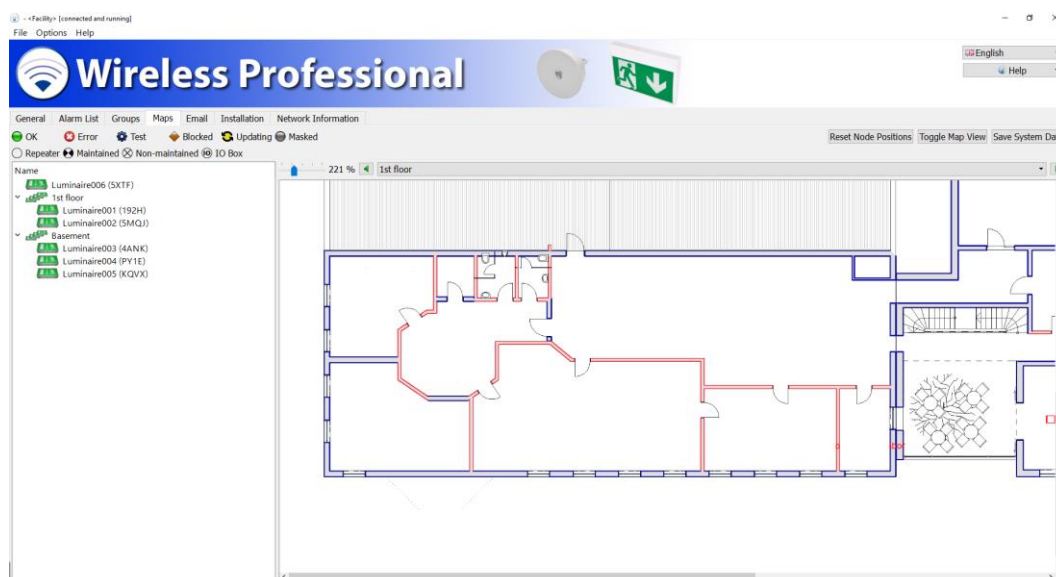


Figure 28: Scale view

3. Drag the devices from the left section and place them on the floor plan.

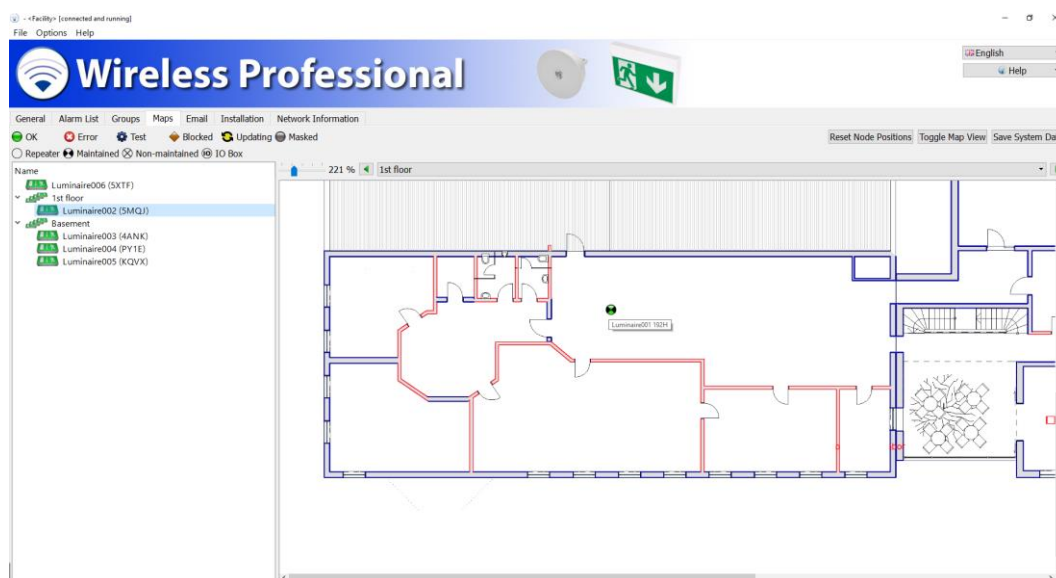


Figure 29: Place device

4. Repeat steps 1 – 3 until all the devices are placed on the floor plans.
5. Click on **Save System Data** to complete placing the devices on the floor plans.

**Note:** Any luminaire or device can not be place multiple times.

### 3.9 Automatic test setup

- Select the **Installation** tab. Select the **Test** tab from the lower tab bar.
- Select the test interval for duration tests from the drop-down list **Interval** in the **Capacity test** section. EN 62034 requires a maximum interval of one year between automatic duration tests.
- Enter the duration test's start time in the **Time** field. Pick a time when the building is not occupied. If the building can be occupied at any time, EN 62034 allows a manual initiation of the duration test. In this case, select **Manually** from the **Interval** drop-down list.
- Select a date for the next duration test from the calendar. The date should not be more than one year ahead.
- Likewise, select the test interval for functional tests from the drop-down list **Interval** in the **Function test** section. EN 62034 requires a maximum time interval of one month between automatic functional tests.
- If the selected test interval is **Weekly**, choose a day for the functional test from the **Weekday** drop-down list.
- Click on **Save System Data** to complete the automatic test setup.

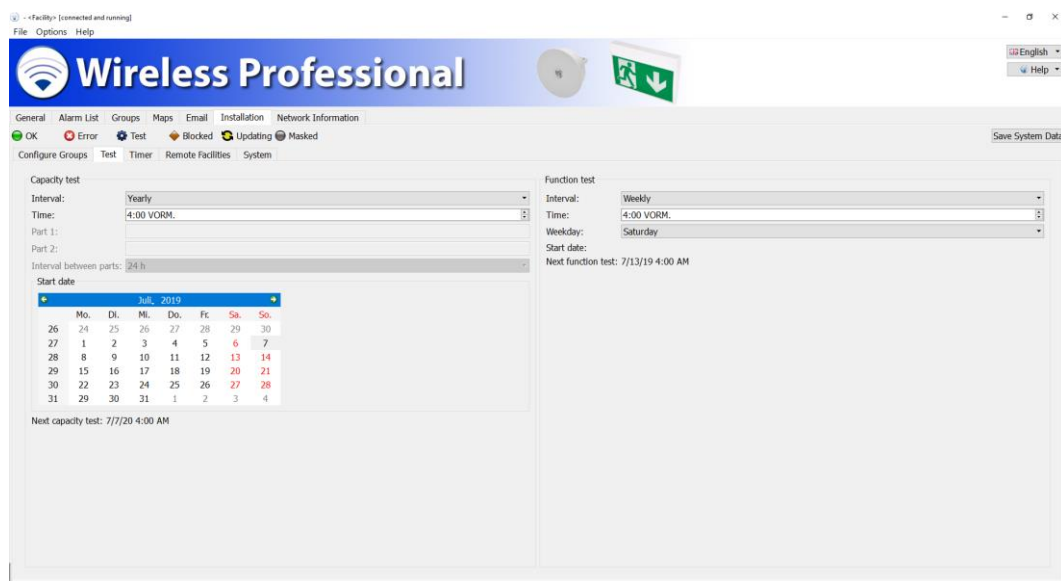


Figure 30: Timer configuration

### 3.10 Duration test at initial start-up

EN 62034 requires a complete duration test to be carried out at automatic test system start-up. The emergency luminaire batteries must be fully charged (for a minimum of 24 hours) in order for the duration test to take place (refer to sections 2.2 and 2.3).

- Select the **General** tab.
- Click on the **Start Capacity Test** button.

In the event of battery failure, repeat the duration test after a second charging cycle (min. 24h).

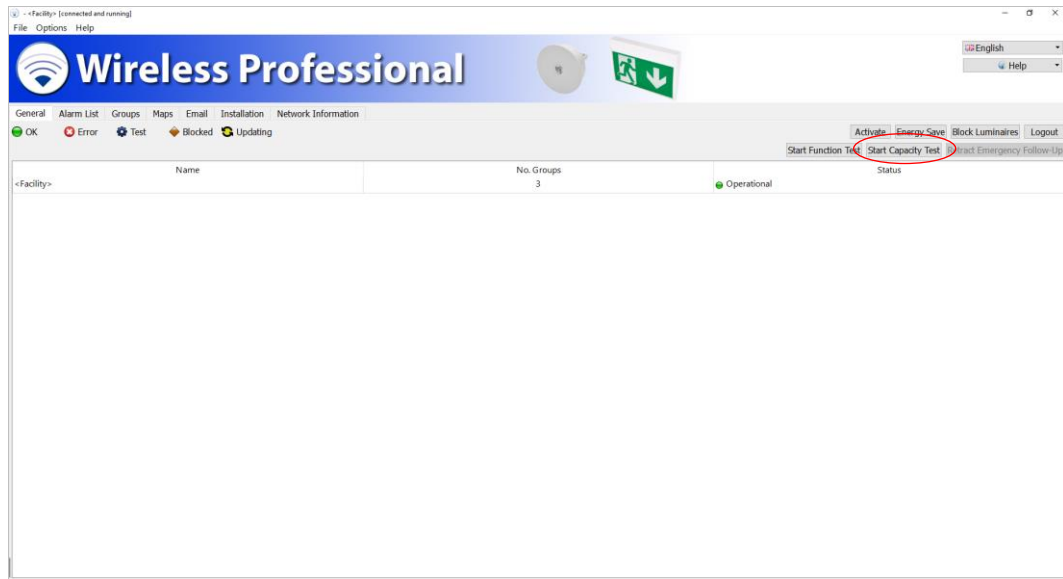


Figure 31: Start capacity test

## 4 Software installation

This section applies to systems delivered without a computer. On systems delivered with a computer, the WirelessProfessional software is preinstalled.

## 4.1 System requirements

Component	Minimum requirement
Processor	Intel Atom N455 1,6 GHz
RAM	1024 MB DDR3-RAM
HDD	32 GB SSD
Display	25,7 cm (10,1") screen diagonal, 1024x600 pixel resolution
Graphics	Intel GMA 3150
Ports	2 x USB 2.0
Operating system	Windows 7, 32- or 64 bit

## 4.2 Installation

- Open the **WirelessProfessional\_Setup\_x.x.exe** file's context menu (**x.x** is the software version) and select **Run as administrator** to start the installation process.

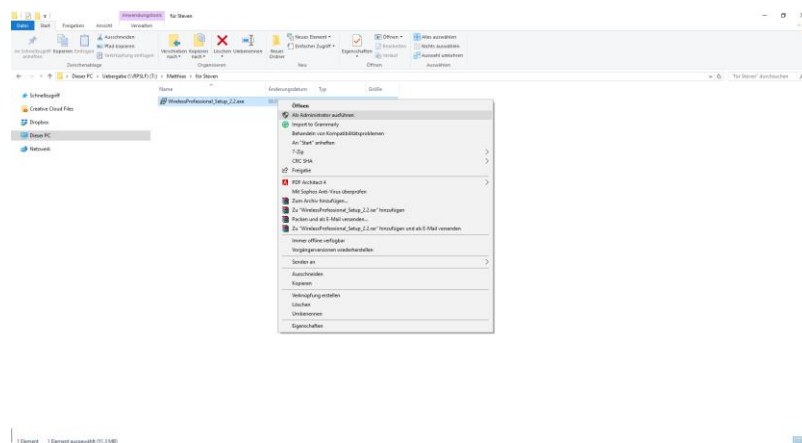


Figure 32: Choose the installation file



- Enter the password for the administrator account in the user account control dialogue window and click on **Yes**.

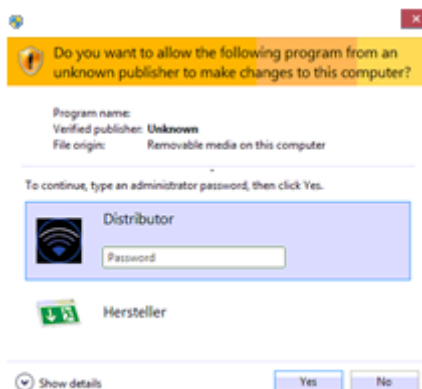


Figure 33: Enter administrator password

- Select the language to be used for the software setup and click on **OK**.

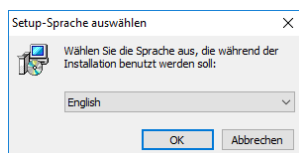


Figure 34: Select a language

- Click on **Next** in the setup wizard window.

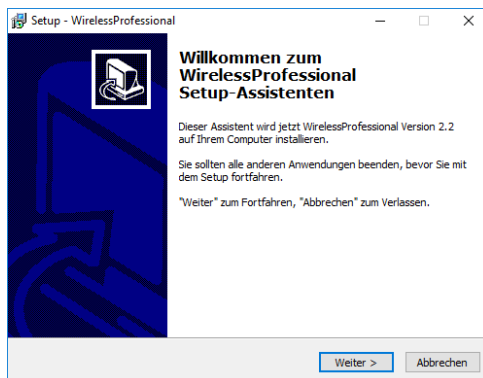


Figure 35: Setup dialog

- Read the information regarding the installation folder and click on **Next**.

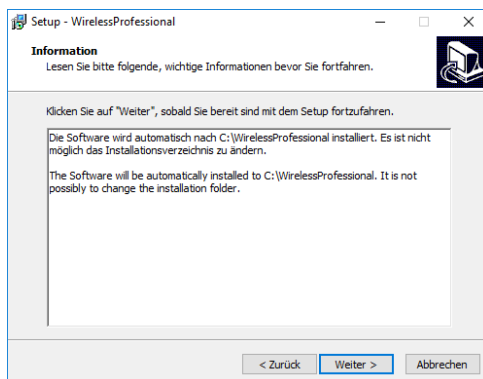


Figure 36: Setup dialog

- Change the start menu folder's name if you wish to and click on **Next**.

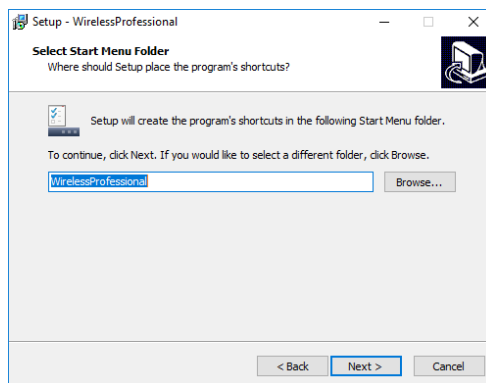


Figure 37: Setup dialog

- Select Create a desktop icon if you wish to and click on **Next**.

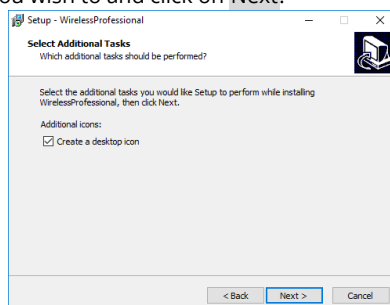


Figure 38: Setup dialog

- Click on **Install**. The software and all necessary drivers will be installed.

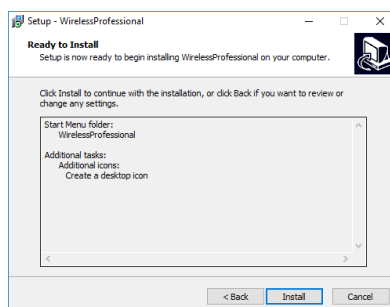


Figure 39: Setup dialog

- Click on **Finish** to complete the setup wizard. The WirelessProfessional software will be started.



Figure 40: Complete Installation







**Note:** The CPC Viewer and CPC Filemanager programs are required if remote access to a remote system is to be established.

## 5 Software reference

### 5.1 Symbols

This section explains the symbols used in the WirelessProfessional software.

Table 2 shows the colour symbols and the status they indicate. If more than one status applies to a device or a group, the highest priority status colour symbol will be displayed. If for example a group is comprised of emergency luminaires with errors (red symbol, priority 3) and the luminaires in this group are currently being tested (blue symbol, priority 4), the blue symbol will be displayed because of its higher priority. Exceptions to this rule are communication errors that occur during a test: a red symbol is shown in this case to draw attention to the error.

Symbol	Priority	Status
	Yellow 5	Status is being updated
	Blue 4	Emergency luminaire is tested
	Red 3 <sup>1</sup>	Error(s)
	Orange 2	Remote inhibiting mode
	Green 1	No errors
	Grey -	Emergency luminaire is masked

<sup>1</sup> Communication errors that occur during a test are displayed with higher priority than the test.

Table 2: colour symbols

### 5.2 Operating mode symbols









Symbol	Operating mode
	Maintained emergency luminaire
	Non-maintained emergency luminaire
	Maintained emergency luminaire: emergency lighting illuminant is on
	Non-maintained emergency luminaire: emergency lighting illuminant is off
	Maintained emergency luminaire: emergency lighting illuminant is off
	Non-maintained emergency luminaire: emergency lighting illuminant is on
	Group/system is linked with the input/output of an IO-box
	Group/system is linked with a timer

Table 3: operating mode symbols

### 5.3 Operating modes

Table 4 shows an overview of operating modes. The operating modes are explained in detail in the glossary (section 10).

Operating mode	Non-maintained emergency luminaires <sup>1</sup>	Maintained luminaires <sup>1</sup>	Functional/Duration test	Emergency mode
<b>Energy Save</b>	Off	Off	Yes	Yes
<b>Activate</b>	Off <sup>1</sup>	On	Yes	Yes
<b>Fire alarm</b>	On	On	No	Yes
<b>Remote inhibiting mode</b>	Off	Off	No	No

<sup>1</sup>The **Activate** function does not toggle switchable non-maintained emergency luminaires. Luminaires that are turned off stay off and luminaires that are turned on stay on.

Table 4: operating modes

## 5.4 Status messages

Table 5 lists and explains the status messages of the WirelessProfessional software.

Status message	
<b>Starting system</b>	Communication with all devices is checked
<b>Updating</b>	Message is shown while a device status is updated
<b>Device not associated</b>	Device is still to be registered in the system
<b>Blocking x luminaires</b>	x luminaires are still to be set to remote inhibiting mode
<b>Unblocking x luminaires</b>	Remote inhibiting mode is still to be terminated on x luminaires
<b>Emergency state is expiring</b>	The follow-up time has passed and the emergency luminaires are being turned off
<b>Operational</b>	At least one switchable emergency luminaire is turned on
<b>Ready to activate</b>	All switchable emergency luminaires are turned off <b>OR</b> the system is only comprised of non-switchable emergency luminaires.
<b>Error on x devices</b>	Error messages for x devices have accumulated
<b>Emergency state is activated by IO-box</b>	Fire alarm at the fire alarm input of an IO-box. All switchable emergency luminaires are turned on.
<b>Emergency state is in follow-up time</b>	The fire alarm has ended. The follow-up time is running. Switchable emergency luminaires stay turned on until the end of the follow-up time.
<b>Starting test on x devices</b>	A test on x devices is being started
<b>Test running</b>	Status message while a test is running
<b>Finishing test on x devices</b>	A test has finished and the results are being transmitted from the emergency luminaires
<b>x luminaires are blocked</b>	x emergency luminaires are in remote inhibiting mode

Table 5: status messages

### 5.5 Error messages

Table 6 lists, explains and gives possible causes for the error messages of the WirelessProfessional software.

Error message	Possible causes	
<b>Device invalid</b>	The device has an unknown device type ID	The device firmware is more up to date than the WirelessProfessional software
<b>Connection lost</b>	The wireless communication with a device is broken	Device operates in emergency mode Radio transmission failure
<b>Battery error</b>	The battery voltage is out of range	Battery is not connected Wrong battery type connected Battery deeply discharged Battery damaged
<b>Last test failed: connection error</b>	The wireless connection was broken while testing or after the test had finished	Wireless communication error
<b>Last test failed: battery error</b>	Battery error while testing	Battery is not connected Wrong battery type connected Battery was not fully charged Battery deeply discharged Battery damaged
<b>Last test failed: illuminant error</b>	Illuminant failure while testing	Illuminant not connected Defective illuminant Defective changeover device Illuminant current too small

Table 6: Error messages

### 5.6 User levels

Access rights to functions of the WirelessProfessional system are divided into several user levels. Table 7 lists the user levels and their specific access rights. The **facility manager**, **installer** and **distributor** user levels are password protected against unauthorised access. The WirelessProfessional software starts with the **anybody** user level.

User level	Access rights
<b>Anybody</b>	Read only, no authorisation to make changes
<b>Facility manager</b>	Switch devices, initiate functional/duration tests
<b>Installer</b>	Register devices, define groups and automatic tests, add floor plans, reset facility manager password
<b>Distributor</b>	Set service interval, reset the installer password, change logo

Table 7: user levels and their access rights

## 5.7 General tab

To view the **General** tab, click on the **General** tab in the tab bar.

The **General** tab shows the system's name, the number of groups in the system and the system's status. Fig. 9 shows the **General** tab on the **facility manager** or **installer** user level. On the **anybody** user level, the buttons **Activate**, **Energy Save**, **Block Luminaires** etc. are missing. Section 5.1 describes the colour symbols in the **Status** column. If a red symbol indicates that error messages have accumulated, the **Alarm List** tab can be opened with a click with the left mouse button or a touch on the red colour symbol. Clicking into or touching the **No. Groups** opens the **Groups** tab.

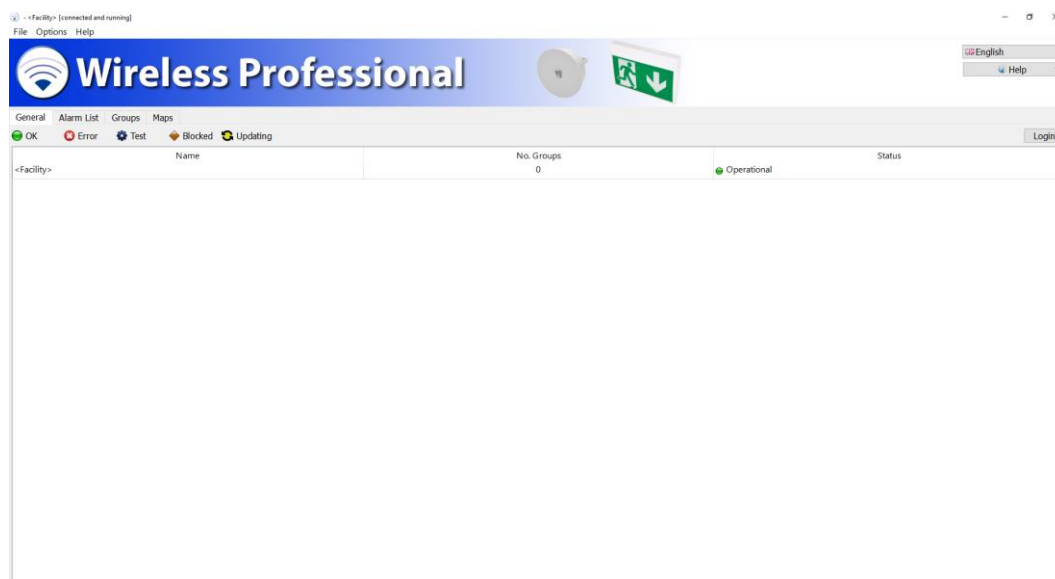


Figure 41: General tab, facility manager or installer user level

Table 8 lists the functions that can be accessed from the **General** tab with the buttons.

Button	Function	User level
<b>Activate</b>	Turns all switchable maintained emergency luminaires on	Facility manager, installer
<b>Energy Save</b>	Turns all switchable emergency luminaires off	Facility manager, installer
<b>Block luminaires</b>	Switches all emergency luminaires into remote inhibiting mode	Facility manager, installer
<b>Logout</b>	Sets the user level back to anybody	Facility manager, installer
<b>Start Function Test</b>	Starts a functional test on all emergency luminaires	Facility manager, installer
<b>Start Capacity Test</b>	Starts a duration test on all emergency luminaires	Facility manager, installer
<b>Retract Emergency Follow-Up</b>	Terminates the follow-up time after a fire alarm. This button is only active when a fire alarm has been detected and the follow-up time is running.	Facility manager, installer

Table 8: functions accessible from the **General** tab

**Note:** With a manual logout, the query appears asking if the system should be saved. With automatic logout this happens without query.

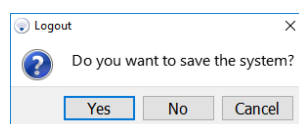


Figure 42: Save the system dialog

### 5.8 Alarm List tab

To view the **Alarm List** tab, click on the **Alarm List** tab in the tab bar.

The **Alarm List** tab shows all devices that report an error. The defective devices are arranged into groups. The alarm shows the device's name, its address and its status (colour symbol and plain text). Section 5.5 describes the colour symbols in the **Status** column. Section 5.4 gives an overview of the WirelessProfessional system's error messages. Figure 43 shows the **Alarm List** tab on the **facility manager** or **installer** user level. On the **anybody** user level, not all of the shown buttons are available.

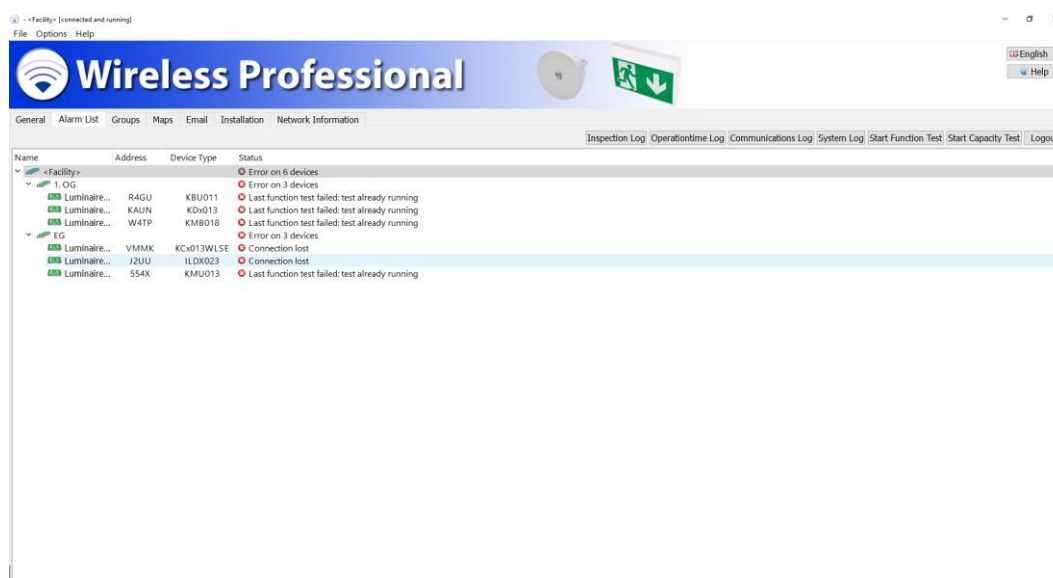


Figure 43: Alarm List tab, facility manager or installer user level

The error list's context menu (Figure 43) offers the functions listed in Table 9.

Note: You can select one or more devices at the same time. Instructions for multiple selecting can be found in the section 1.3.2.

Menu item	Function	User level
<b>Start function test for luminaire '&lt;name&gt;'</b>	Starts a functional test on this emergency luminaire	Facility manager, installer
<b>Start capacity test for luminaire '&lt;name&gt;'</b>	Starts a duration test on this emergency luminaire	Facility manager, installer
<b>Block luminaire '&lt;name&gt;'</b>	Turns this luminaire into remote inhibiting mode	Installer
<b>Deblock</b>	Terminates the remote inhibiting mode	Installer
<b>Show on map</b>	Shows the emergency luminaire on the floor plan	Anybody

Table 9: functions of the error list context menu

The emergency luminaire batteries must be fully charged in order for a functional or duration test to take place (refer to sections 2.2 and 2.3).

Table 10 lists the functions that can be accessed from the **Alarm List** tab with the buttons.

Button	Function	User level
<b>Inspection Log</b>	Opens the inspection log (see section 5.8.1)	Anybody
<b>Operation Time Log</b>	Not implemented	Anybody
<b>Communications Log</b>	Opens the communications log (see section 0)	Anybody
<b>System Log</b>	Opens the system log (see section 5.8.3)	Anybody
<b>Start Function Test</b>	Starts a functional test on all emergency luminaires	Facility manager, installer
<b>Start Capacity Test</b>	Starts a duration test on all emergency luminaires	Facility manager, installer
<b>Logout</b>	Sets the user level back to anybody	Facility manager, installer

Table 10: functions accessible from the **Alarm List** tab

The emergency luminaire batteries must be fully charged in order for a functional or duration test to take place (refer to sections 2.2 and 2.3).

### 5.8.1 Inspection log

The inspection log records the results from functional and duration tests as well as other messages. The inspection log is opened with the **Inspection Log** button on the **Alarm List** tab. Figure 44 shows a screenshot of the inspection log.

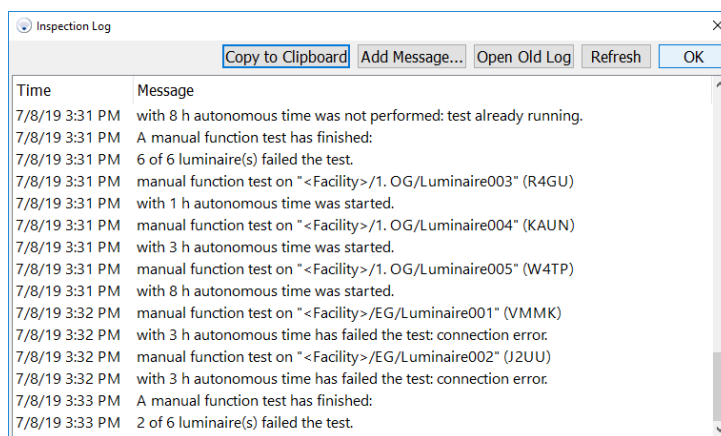


Figure 44: Inspection Log

The inspection log is stored in the **inspection\_log.txt** file. If the size of this file exceeds 4 MB, the file name is changed to **inspection\_log\_<date>.txt** and a new **inspection\_log.txt** file is created.

Table 11 lists the functions that can be accessed from the **Inspection Log** with the buttons.

Button	Function	User level
<b>Copy to clipboard</b>	Copies the selected entry to the clipboard	Anybody
<b>Add message</b>	Enter a message manually. After the message has been entered, click on the <b>Refresh</b> button to display the new entry in the log. Messages entered in the log cannot be deleted.	Anybody
<b>Open old log</b>	Opens an archived inspection log	Anybody
<b>Refresh</b>	Updates the log window	Anybody
<b>OK</b>	Closes the <b>Inspection Log</b> window	Anybody

Table 11: functions accessible from the inspection log



### 5.8.2 Communications log

The communications log records messages from the wireless network. Other events stored in the communications log include the start date of the WirelessProfessional software and the USB-Koordinator connection. Figure 45 shows a screenshot of the communications log.

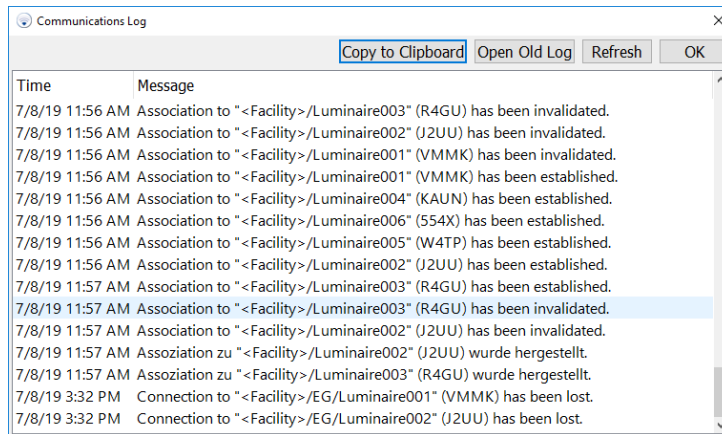


Figure 45: Communications log

The communications log is stored in the **communication.log** file. If the size of this file exceeds 4 MB, the file name is changed to **communication\_<date>.log** and a new **communication.log** file is created.

Table 12 lists the functions that can be accessed from the **Communications Log** with the buttons.

Button	Function	User level
<b>Copy to clipboard</b>	Copies the selected entry to the clipboard	Anybody
<b>Open old log</b>	Open an archived inspection log	Anybody
<b>Refresh</b>	Updates the log window	Anybody
<b>OK</b>	Closes the <b>Communications Log</b> window	Anybody

Table 12: functions accessible from the communications log

### 5.8.3 System log

The system log records all the system configuration and status changes. Figure 46 shows a screenshot of the system log.

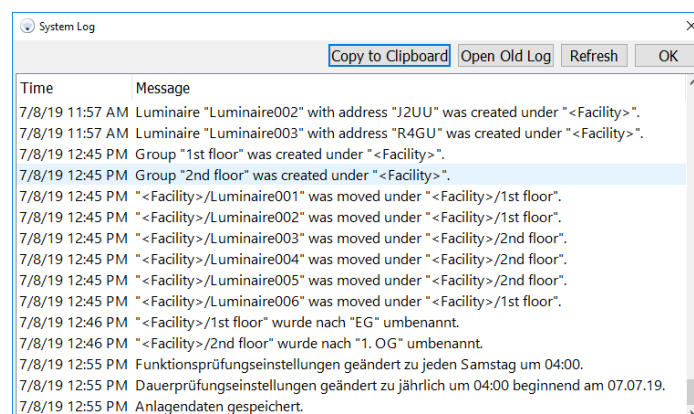


Figure 46: System log

The system log is stored in the **system.log** file. If the size of this file exceeds 4 MB, the file name is changed to **system\_<date>.log** and a new **system.log** file is created.

Table 13 lists the functions that can be accessed from the **System Log** with the buttons.

Button	Function	User level
<b>Copy to clipboard</b>	Copies the selected entry to the clipboard	Anybody
<b>Open old log</b>	Opens an archived inspection log	Anybody
<b>Refresh</b>	Updates the log window	Anybody
<b>OK</b>	Closes the <b>System Log</b> window	Anybody

Table 13: functions accessible from the system log

## 5.9 Groups tab

To view the **Groups** tab, click on the **Groups** tab in the tab bar.

The **Groups** tab shows the groups in the system and the devices within each group. Figure 47 shows a screenshot of the groups tab.

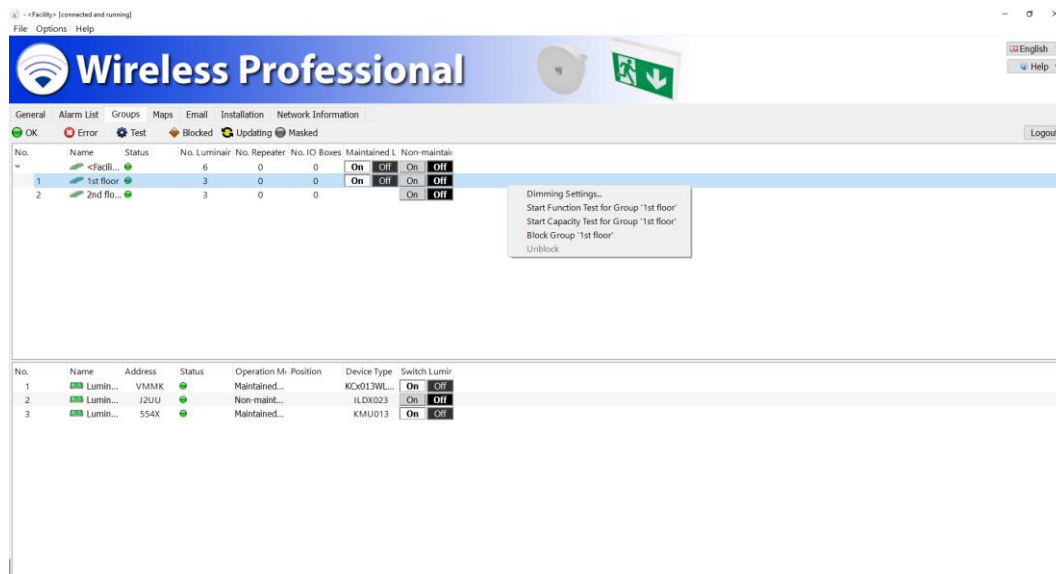


Figure 47: Groups tab, facility manager or installer user level

The upper section in the groups tab shows the groups in the system. The columns show the group's name, its status and the number of emergency luminaires, repeaters and IO-boxes. Section 5.1 describes the colour symbols in the **Status** column. The **On/Off** buttons in the columns **Maintained Luminaires** and **Non-maintained Luminaires** allow the luminaires to be turned on or off. This function is only available on the facility manager and the installer user levels and only if switchable emergency luminaires are present in the system. A red frame around the **On/Off** button indicates a non-maintained emergency luminaire that is turned on or a maintained emergency luminaire that is turned off.

The group list's context menu (Figure 47) offers the functions listed in Table 14. The functions affect all luminaires within the group.

Menu item	Function	User level
<b>Start function test for group '&lt;name&gt;'</b>	Starts a functional test for all emergency luminaires in this group	Facility manager, installer
<b>Start capacity test for group '&lt;name&gt;'</b>	Starts a duration test for all emergency luminaires in this group	Facility manager, installer
<b>Block group '&lt;name&gt;'</b>	Turns all emergency luminaires in this group into remote inhibiting mode	Facility manager, installer
<b>Deblock</b>	Terminates the remote inhibiting mode	Facility manager, installer
<b>Dimming Settings</b>	The possibility to dim all luminaires of this group for normal and emergency operation mode (see Figure 49)	Facility manager, installer

Table 14: group list context menu

The emergency luminaire batteries must be fully charged in order for a functional or duration test to take place (refer to sections 2.2 and 2.3).

The lower section in the **Groups** tab shows the devices in the group that is selected in the upper section (see Figure 48). The lower section shows the device name, its address, status, the operation mode, its position and the device type. The **On/Off** buttons in the **Switch Luminaires** column allow the luminaires to be turned on or off. This function is only available on the facility manager and the installer user levels and only if the emergency luminaires are switchable. A red frame around the **On/Off** button indicates a non-maintained emergency luminaire that is turned on or a maintained emergency luminaire that is turned off.

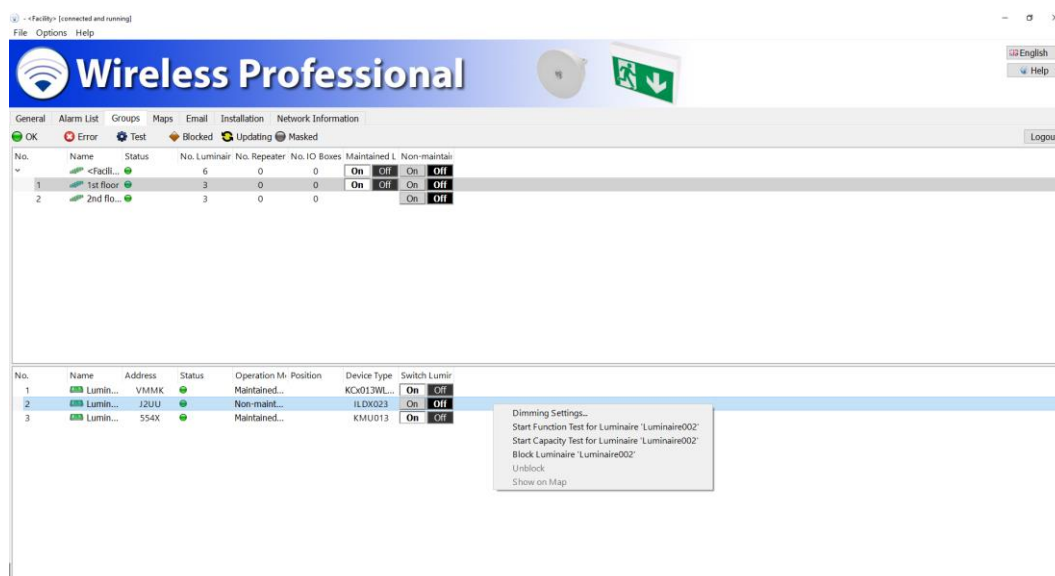


Figure 48: Groups tab, facility manager or installer user level

The devices' context menu (Figure 48) offers the functions listed in Table 15.

**Note:** You can select one or more devices at the same time. Instructions for multiple selecting can be found in the section 1.3.2.

Menu item	Function	User level
<b>Start function test for luminaire '&lt;name&gt;'</b>	Starts a functional test on this emergency luminaire	Facility manager, installer
<b>Start capacity test for luminaire '&lt;name&gt;'</b>	Starts a duration test on this emergency luminaire	Facility manager, installer
<b>Block luminaire '&lt;name&gt;'</b>	Turns this luminaire into remote inhibiting mode	Facility manager, installer
<b>Deblock</b>	Terminates the remote inhibiting mode	Facility manager, installer
<b>Show on map</b>	Shows the emergency luminaire on the floor plan	Anybody
<b>Dimming Settings</b>	The possibility to dim this luminaire for normal and emergency operation mode (see Figure 49)	Facility manager, installer

Table 15: device list context menu

The emergency luminaire batteries must be fully charged in order for a functional or duration test to take place (refer to sections 2.2 and 2.3).

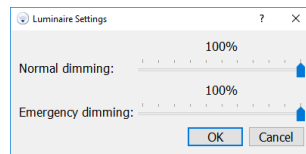


Figure 49: Dimming Settings

**Note:** If a luminaire supports the dimming function, the Dimming menu item can be selected. If there are luminaires in a group that do not support the feature, the Dimming menu item is available for the group. Activating dimming, is only performed on luminaires that support the feature.

Dimming of emergency luminaires may only be carried out in accordance with local regulations and the official emergency lighting plan of the building, so that adequate emergency lighting can be guaranteed at all times.

## 5.10 Maps tab

To view the **Maps** tab, click on the **Maps** tab in the tab bar.

The **Maps** tab allows floor plans to be added and emergency luminaires that are registered in the system to be placed on the floor plans, so that the installation location of a device can be looked up at any time. The functions of the **Maps** tab can only be used on the installer user level. On the anybody and facility manager user levels, the floor plans can only be viewed.

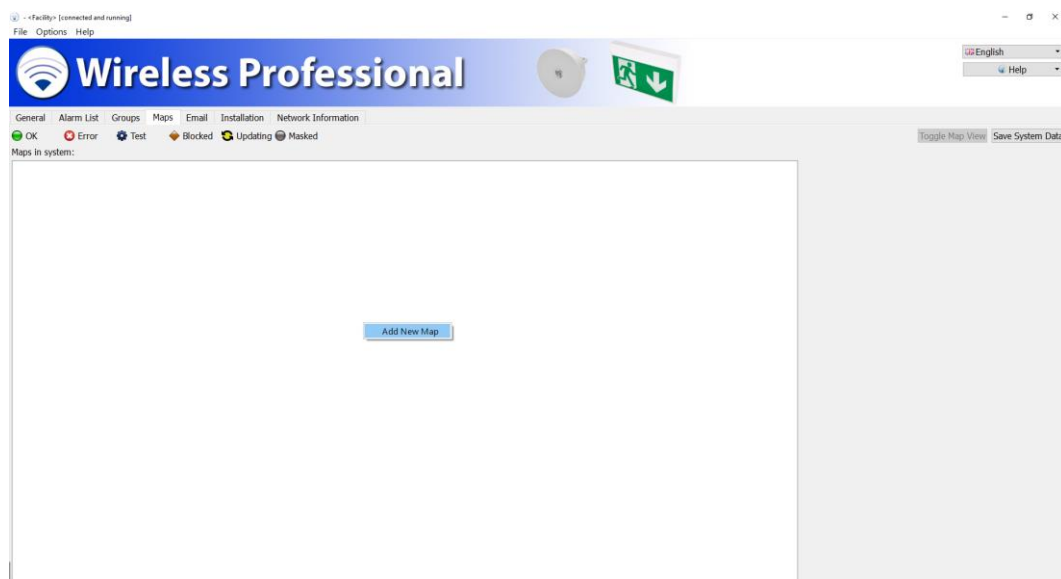


Figure 50: Maps tab, installer user level

The maps tab has two views: the list of floor plans (view 1, Figure 50 and the view on the floor plan with the luminaires placed (view 2, Figure 52). You can switch between these two views with the **Toggle Map View** button.

### 5.10.1 Maps tab, view 1

To add a floor plan, open the context menu in the **Maps in system** section (Figure 50) and select **Add new map**. Select the storage medium your floor plans are stored on in the **Select a Map Image** dialogue. Select all the floor plans you wish to add and complete the selection with **Open**. The floor plans must be in .png, .bmp or .jpg format. The maximum floor plan size is 10 megapixels. Larger floor plans cannot be loaded in the WirelessProfessional system.

You can drag a floor plan to a new position within the list in order to rearrange the list.

The context menu of the floor plans in the **Maps in system** section offers the functions **Add new map**, **Rename map '<name>'**, **Delete map '<name>'** and **Switch to Map View of '<name>'**.

Open the context menu on the right section of the **Maps** tab and select **Add new building logo** to add a picture of the building. Select the storage medium the picture is stored on in the **Select a Building Logo** dialogue. Select the picture and complete the selection with **Open**. The picture must be in .png, .bmp or .jpg format.

Double click or touch twice on an entry in the list of floor plans to open it and change to view 2.

If you make any changes to the floor plans, select **Save System Data** to save the changes.

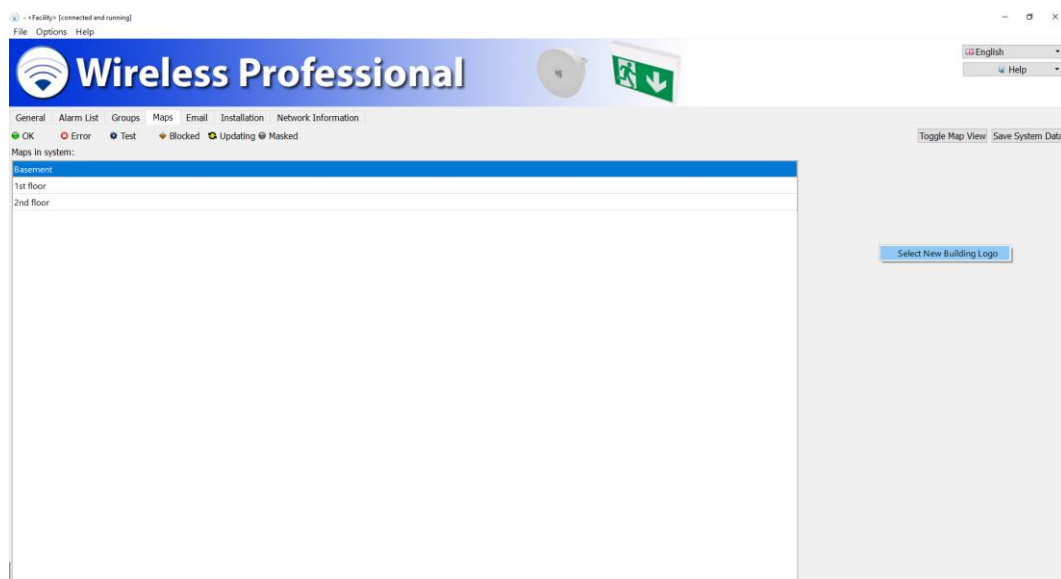


Figure 51: Maps tab, installer user level

### 5.10.2 Maps tab, view 2

View 2 of the maps tab allows the registered luminaires to be placed on the floor plans. Figure 52 shows a screenshot of the maps tab in view 2.

To change to view 2, click on the **Toggle Map View** button or double click/touch twice on an entry in the list of floor plans. The left section shows the groups and devices of the system. To place a device on the floor plan, select the device in the left section and drag it to the location it is installed at on the floor plan. Devices placed on the floor plan will automatically be removed from the left section.

The floor plan currently displayed can either be selected in the drop-down list above the floor plan or with the arrow buttons located to the left and right of the drop-down list.

Use the slider to adjust the magnification and use the scroll bars to control the displayed floor plan detail.

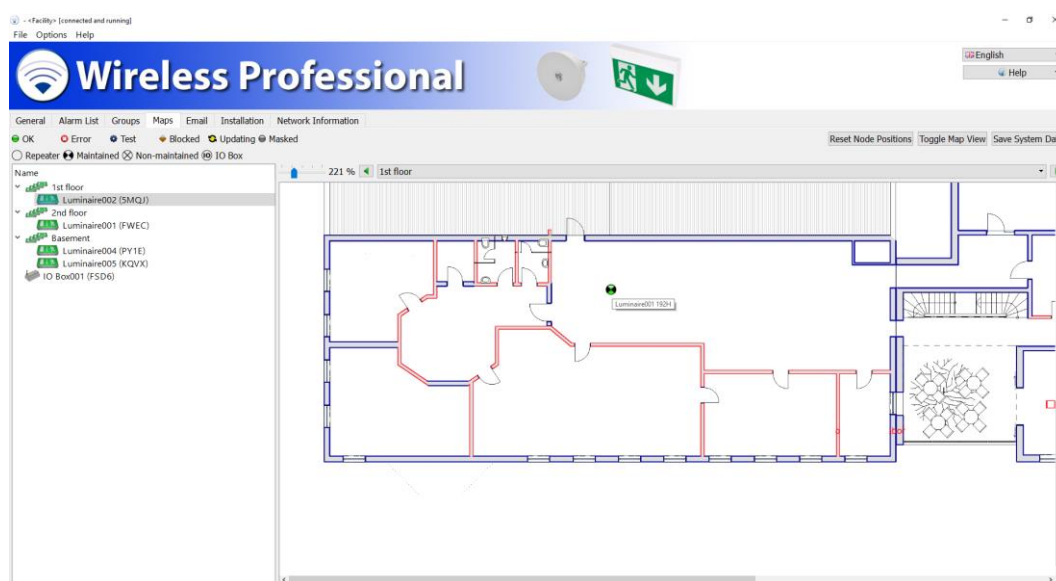


Figure 52: Maps tab, installer user level

Table 16 lists the functions that can be accessed with the buttons in view 2 of the **Maps** tab.

Button	Function	User level
<b>Reset Node Positions</b>	Removes all devices from the floor plan	Installer
<b>Toggle Map View</b>	Changes between view 1 and view 2	Anybody
<b>Save System Data</b>	Saves changes	Installer

Table 16: functions in view 2 of the maps tab

If you make any changes in the **Maps** tab, select **Save System Data** to save the changes.

### 5.11 Email tab

To view the **Email** tab, click on the **Email** tab in the tab bar. The **Email** tab is only available on facility manager and installer user levels.

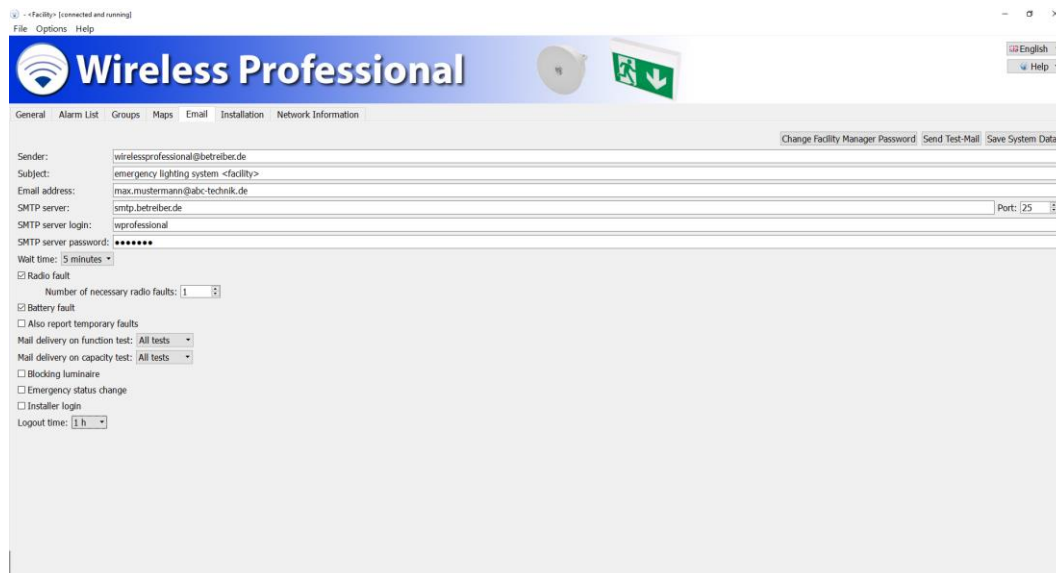


Figure 53: Email tab, facility manager or installer user level

The WirelessProfessional software offers the option to send an email to a predetermined address if certain events take place. To use this function, you need an email account to send the emails from and the computer must be connected to the internet. Figure 53 shows a screenshot of the email tab.

Table 17 lists the fields on the email tab and explains their function.

Field	Function
<b>Sender</b>	Sender email address
<b>Subject</b>	Entry in the email's subject field
<b>Email address</b>	Receiver email address. If the email should be sent to multiple receivers, separate the addresses with a comma, e.g. receiver1@domain1.com, receiver2@domain2.com ...
<b>SMTP server</b>	SMTP server the email is being sent from
<b>Port</b>	The port for the connection with the SMTP server (port 25, 587 or 465 in most cases)
<b>SMTP server login</b>	SMTP server login
<b>SMTP server password</b>	SMTP server password. Only SMTP servers with password authentication are supported by this software.
<b>Wait time</b>	Time taken from an event until an email is sent. If additional events occur during this time span, multiple events can be reported with one email.
<b>Radio fault</b>	Email is sent in the event of a radio fault
<b>Battery fault</b>	Email is sent in case of a battery fault
<b>Also report temporary faults</b>	Tick this box to have emails sent even if the fault is fixed before the wait time is over
<b>Mail delivery on function test</b>	You can choose from email after all functional tests ( <b>all tests</b> ) email after functional test with errors ( <b>failed tests</b> ) never send an email after a functional test ( <b>never</b> )
<b>Mail delivery on capacity test</b>	You can choose from email after all duration tests ( <b>all tests</b> ) email after duration test with errors ( <b>failed tests</b> ) never send an email after a duration test ( <b>never</b> )
<b>Blocking luminaire</b>	Send email if emergency luminaires are turned into remote inhibiting mode
<b>Emergency status change</b>	Send email if the fire alarm signal at an IO box input is turned on or off
<b>Installer login</b>	Send email if a user logs in as an installer
<b>Logout time</b>	Users logged in as facility manager or installer are automatically logged off after the logout time if no user activity is being detected during this time. This function's purpose is to automatically log off users that forget to log of.

Table 17: fields on the email tab

Table 18 lists the functions that can be accessed with the buttons on the email tab

Button	Function	User level
<b>Change facility manager password</b>	Change the facility manager password	Facility manager, installer
<b>Send test email</b>	Send a test email	Facility manager, installer
<b>Save System Data</b>	Save changes	Facility manager, installer

Table 18: functions in the email tab

If you make any changes in the email tab, click on **Save System Data** to save the changes.



### 5.12 Installation tab

To view the **Installation** tab, click on the **Installation** tab in the tab bar. The **Installation** tab is only available on the installer user level.

The **Installation** tab is subdivided into the **Configure Groups**, **Test**, **Timer** and **System** tabs.

#### 5.12.1 Configure Groups tab

To view the **Configure Groups** tab, click on the **Configure Groups** tab in the lower tab bar on the **Installation** tab.

New devices can be registered in the system and groups can be created and edited in the **Configure Groups** tab. Figure 54 shows a screenshot of the **Configure Groups** tab.

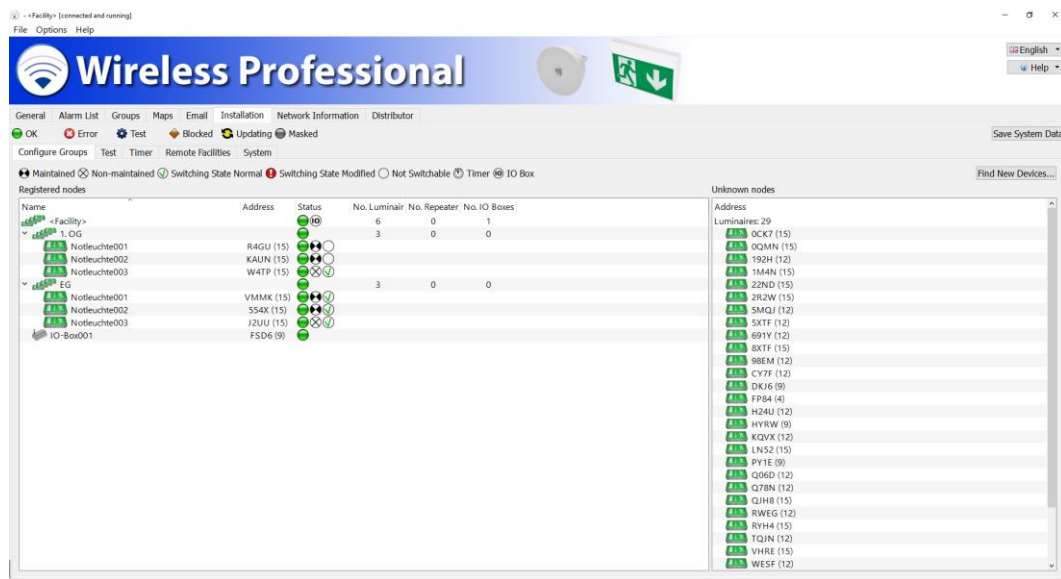


Figure 54: Configure Groups tab, distributor user level

The first row in the **Registered nodes** section shows the name and the properties of the system. The system's groups and the devices within the groups are shown below. Click on or touch the triangle to the left of a group to expand the group and show the devices within the group or click on the triangle again to close the group.

The columns in the **Registered nodes** section show the group's or the device's name, the status and the number of emergency luminaires, repeaters and IO-boxes in the group. Section 5.1 describes the symbols in the **Status** column.

The context menu of the **Registered nodes** section (Figure 55) offers the functions listed in Table 19. The entries in the context menu vary, depending on whether a group or a device is selected.

At the user level Distributor you get additional information about the version of the radio module installed in the device.

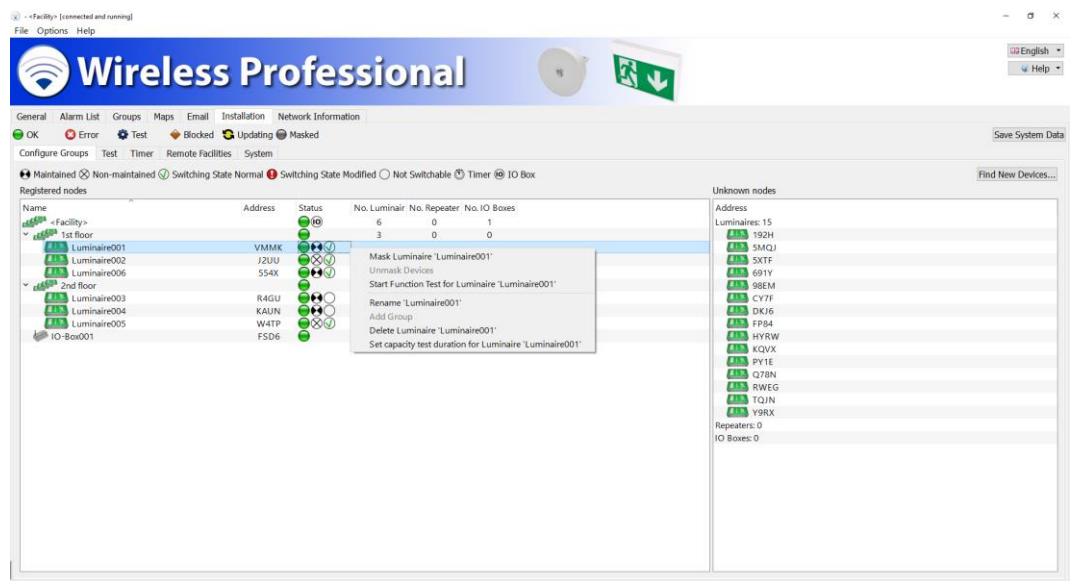


Figure 55: Configure Groups tab, installer user level

Menu item	Function	User level
Mask x luminaires, x repeaters and x IO-boxes/Mask luminaire '<name>'	Devices will be masked (device errors will not be displayed)	Installer
Unmask Devices	Removes the masking	Installer
Start function test for luminaire/group '<name>'	Starts a functional test for this luminaire /this group	Installer
Rename Luminaire/Group '<name>'	Rename the luminaire / the group	Installer
Add group	Adds a group to the selected group or the system. This function is available only if a group or the system is selected	Installer
Delete Luminaire/Group '<name>'	Deletes the luminaire /the group from the system	Installer
Set capacity test duration for Luminaire/Group '<name>'	The possibility to reduce the autonomy time of the selected luminaire or all luminaires of one group. See note	Installer

Table 19: context menu functions

If the context menu item **Set capacity test duration for Luminaire 'Name'** is selected, the **Autonomy time settings** window opens (Figure 56).

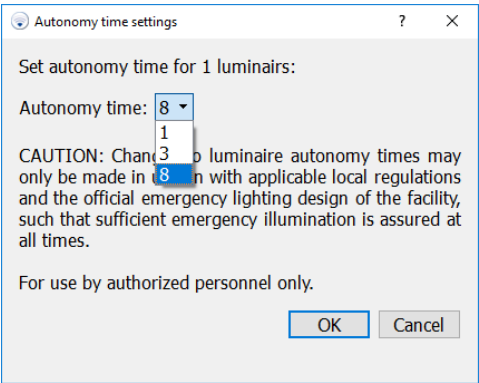


Figure 56: Window Autonomy time settings

The current autonomy time is displayed in the window Autonomy time settings. A new autonomy time can be selected via the dropdown list.

It is only possible to select an autonomy time that is equal to or less than the initial autonomy time.  
This may result in an increase in luminous flux.

**Caution:** Changes to the autonomy time of emergency luminaires may only be made in accordance with local regulations and the official emergency lighting plan of the building, so that adequate emergency lighting can be guaranteed at all times.

**Note:** Setting the autonomy time is supported from radio module version 2.1 (15). If the luminaire does not support this function, this menu item is not available. If there are luminaires which do not support this feature and support them together in a group, this menu item is available. If the menu item Set Capacity test duration for Luminaires is selected on such a group, a note is displayed informing about the addresses of lights which do not support this feature. By pressing the **Yes** button the autonomy time of the remaining devices can be changed.

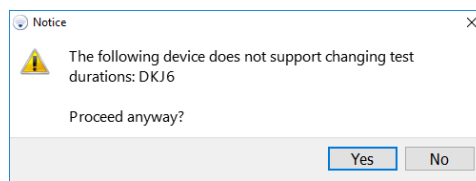


Figure 57: Note Autonomy time change

The light(s) will then briefly change to the Update status. As soon as the light(s) has/have returned to OK status, the change is effective and is displayed accordingly in the device details (see

Figure 87).

The **Unknown nodes** section to the right shows devices, which are not registered in the system, but are in range of the wireless network. The list is divided into luminaires, repeaters and IO-Boxes. Devices that are not supported by the installed version of the WirelessProfessional software show up in the **Unknown nodes** section as **not usable**. If a device's wireless connection is broken for more than 5 minutes, the device will be removed from the **Unknown nodes** section.

To register devices from the **Unknown nodes** section in the system, select the devices (Figure 58) and drag them onto the **Registered nodes** section. The devices will then be registered one after the other. The first row in the **Registered nodes** section shows the remaining number of devices to be registered. The registration time can vary from seconds to minutes for a single device.

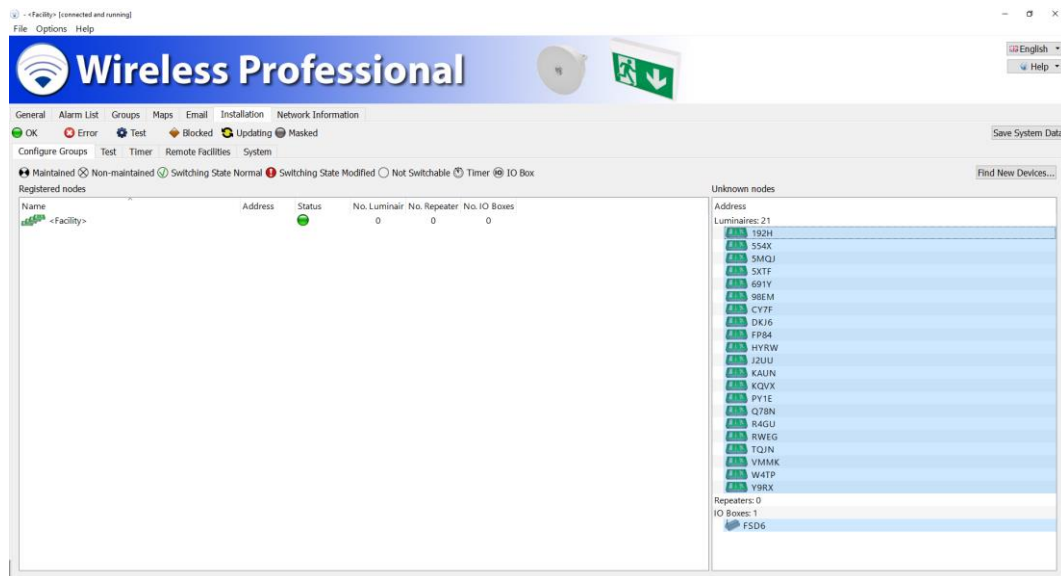


Figure 58: Configure Groups tab, installer user level

**Caution!** During registration of the devices in the system, the USB-Coordinator should be positioned such that less than 50 devices are in direct range of it (refer to section 5.13, Network Information tab).

Following registration in a system, devices will only forward the data packets in the wireless network that originate from the system they are registered in. If single devices are added individually to the system, the following situation can occur: If the single device that is supposed to be added to the system is located far away from the USB-Coordinator and the devices in between that are needed for the wireless communication are not yet registered in the system, then the device located far away cannot be accessed. For this reason devices should always be selected in the **Unknown nodes** section and dragged to the **Registered nodes** section together.

The context menu of the entries in the unknown nodes section (Figure 59) offers the functions listed in Table 21.

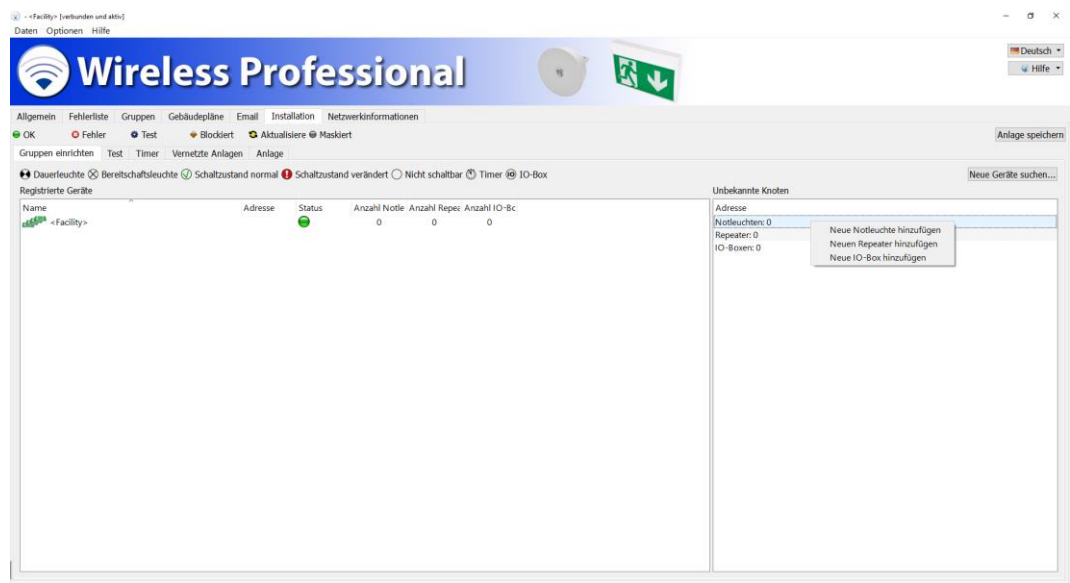


Figure 59: View Set Up Groups - Context Menu

Menu item	Function	User level
Add new Luminaire	Adds an emergency luminaire manually	Installer
Add new Repeater	Adds a repeater manually	Installer
Add new IO Box	Adds an IO-Box manually	Installer

Table 20: Functions of the Context Menu in the Unknown Nodes Area, Set Up Groups View

Using the functions **Add New Luminaire/Add New Repeater/New IO Box** allows to manually add devices to the system without radio contact to these devices. To add devices manually, the device addresses must be known.

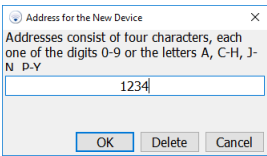


Figure 60: Address of the new device

Like other devices, manually created devices can be dragged from the **Unknown nodes** area to the **Registered nodes** area. Manually created devices can only be added if there are fewer than 250 devices in the system. The color status of manually added devices remains yellow until radio contact is established and then changes to green. This feature can be used to create an emergency lighting system in the WirelessProfessional software without being at the emergency lighting system installation site.

If a 4-digit device address is entered in the window **Address for the New Device** and pressed **Delete**, the system ID is removed from the device of this address. While removing the System ID, the device will be displayed with the name **TempNode[Address]** (Figure 61) and will be automatically removed from the system after removing the System ID from the device.

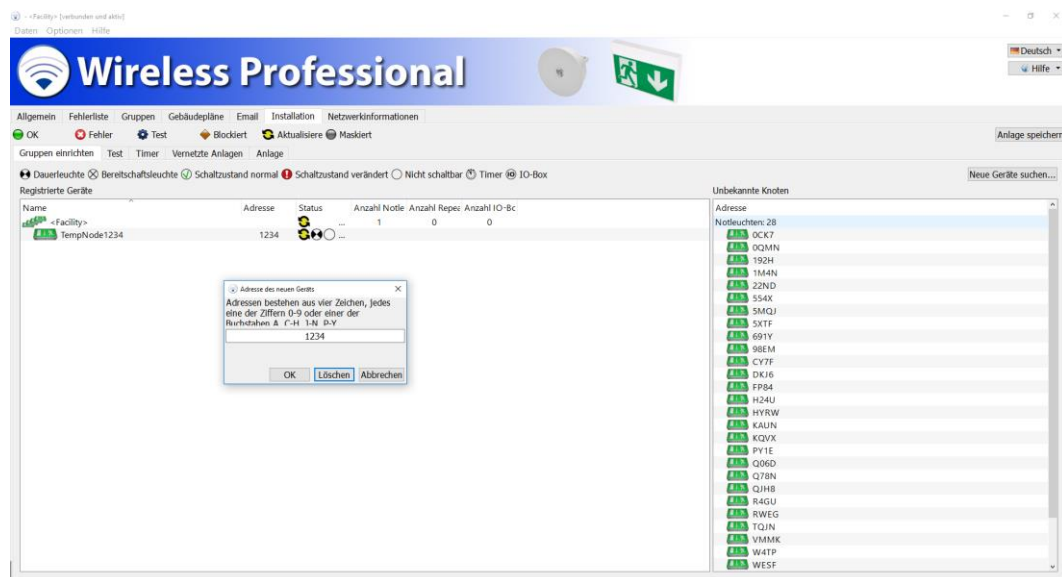


Figure 61: Display of the device to be deleted

The context menu of the entries in the unknown nodes section (Figure 62) offers the functions listed in Table 21.

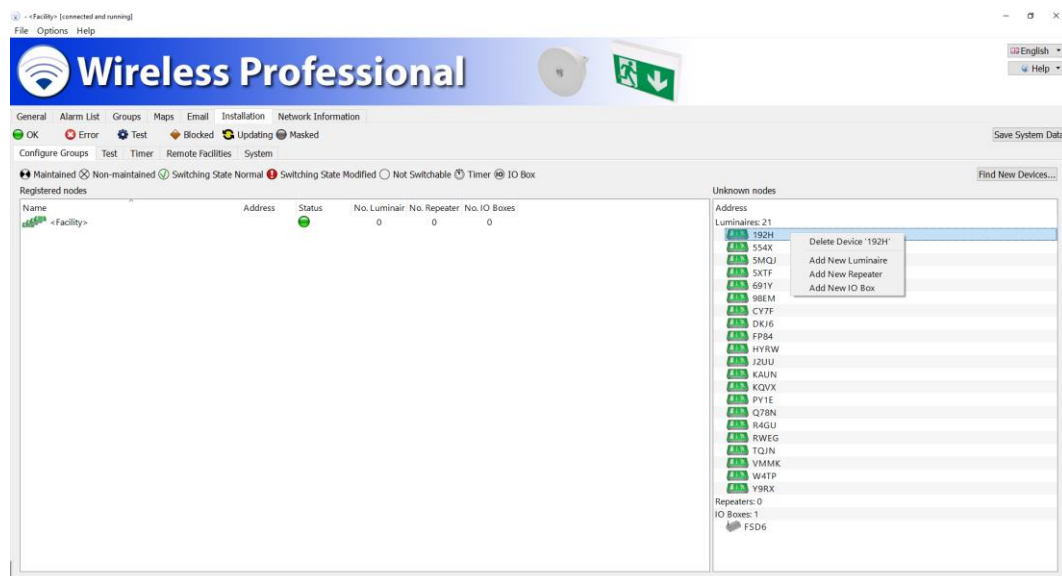


Figure 62: Configure Groups tab, installer user level

Menu item	Function	User level
<b>Delete Device '&lt;name&gt;'</b>	Deletes the device from the <b>Unknown nodes</b> section	Installer
<b>Add new Luminaire</b>	Adds an emergency luminaire manually	Installer
<b>Add new Repeater</b>	Adds a repeater manually	Installer
<b>Add new IO Box</b>	Adds an IO-Box manually	Installer

Table 21: context menu functions

The **Delete Device 'Address'** function deletes the device from the Unknown **nodes area**. If the device continues to send connection requests, the address will be displayed again.

### 5.12.2 Test tab

To view the **Test** tab, click on the **Test** tab in the lower tab bar on the **Installation** tab.

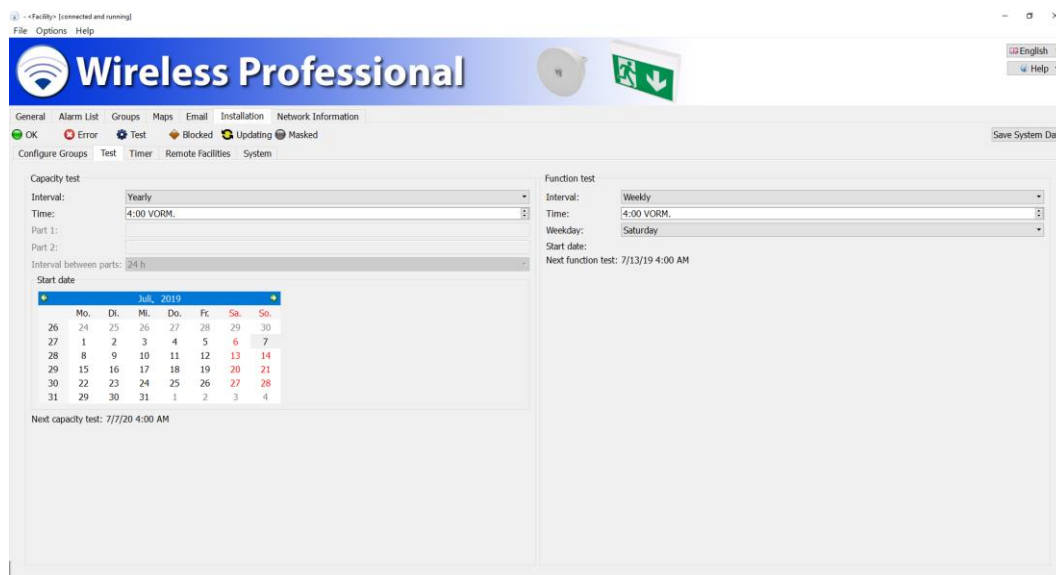


Figure 63: Test tab, installer user level

The WirelessProfessional system carries out automatic tests of emergency escape lighting systems according to EN 50172 and EN 62034. The settings for the automatic functional test and the automatic duration test are on the **Test** tab. Figure 63 shows a screenshot of the **Test** tab.

Table 21 lists the fields on the **Capacity test** section of the **Test** tab and explains their function.

Field	Function
<b>Interval</b>	Time interval for duration tests. Choose from <b>Yearly</b> , <b>Half-Yearly</b> , <b>Every 4 Months</b> and <b>Quarterly</b> . Choosing <b>Manually</b> turns automatic testing off.
<b>Time</b>	Time the duration test starts at. Select a time when the building is not occupied.
<b>Part 1</b>	Not implemented
<b>Part 2</b>	Not implemented
<b>Interval between parts</b>	Not implemented
<b>Start date</b>	Select a date for the next duration test
<b>Next capacity test</b>	The date for the next duration test is displayed after the setup is completed by clicking on <b>Save System Data</b>

Table 22: fields on the **Capacity test** section of the Test tab

The emergency luminaire batteries must be fully charged in order for a functional or duration test to take place (refer to sections 2.2 and 2.3).

If an automatic duration test is started and one or more emergency luminaires are not sufficiently charged (refer to sections 2.2 and 2.3), the duration test for these luminaires will be postponed for 24 hours. After 24 hours a new duration test on these luminaires will take place. The software allows for a maximum of three attempts at a duration test on the emergency luminaires.

Table 22 lists the fields on the **Function test** section of the **Test** tab and explains their function.

Field	Function
<b>Interval</b>	Time interval for functional tests. Choose from <b>Daily</b> , <b>Weekly</b> and <b>Manually</b> . Choosing <b>Manually</b> turns automatic testing off.
<b>Time</b>	Time at which the functional test starts. Select a time when the building is not occupied.
<b>Weekday</b>	Weekday on which the functional test is carried out. This field is only available if <b>Weekly</b> is chosen as the interval.
<b>Next function test</b>	The date for the next functional test is displayed after the setup is completed by clicking on <b>Save System Data</b>

Table 23: fields on the **Function test** section of the Test tab

If you make any changes in the **Test** tab, select **Save System Data** to save the changes.

### 5.12.3 Timer tab

To view the **Timer** tab, click on the **Timer** tab in the lower tab bar on the **Installation** tab.

Timers allow emergency luminaires to be switched automatically at a pre-set time. Figure 64 shows a screenshot of the **Timer** tab.

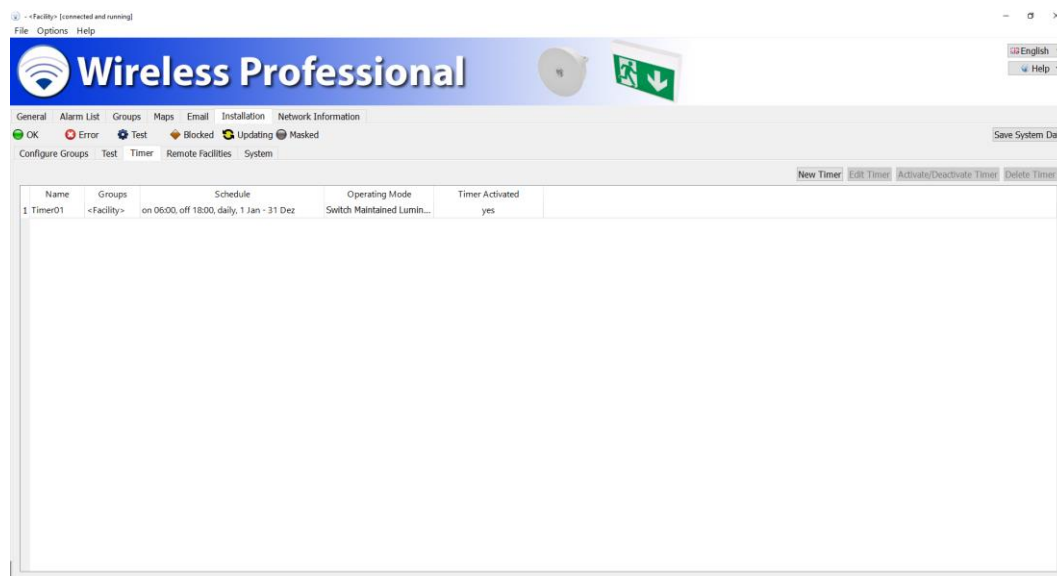


Figure 64: timer tab, installer user level

Table 24 lists the functions that can be accessed from the **Timer** tab with the buttons.

Button	Function	User level
<b>New Timer</b>	Opens the Configure Timer window (Figure 65) for a new timer	Installer
<b>Edit Timer</b>	Opens the Configure Timer window (Figure 65) for the selected timer entry	Installer
<b>Activate/Deactivate Timer</b>	Enables or disables the selected timer entry	Installer
<b>Delete Timer</b>	Deletes the selected timer entry	Installer

Table 24: functions accessible on the Timer tab



The buttons **New Timer** and **Edit Timer** open the **Configure Timer** window with the timer settings (Figure 65). Table 25 lists the fields in the **Configure Timer** window and explains their function.

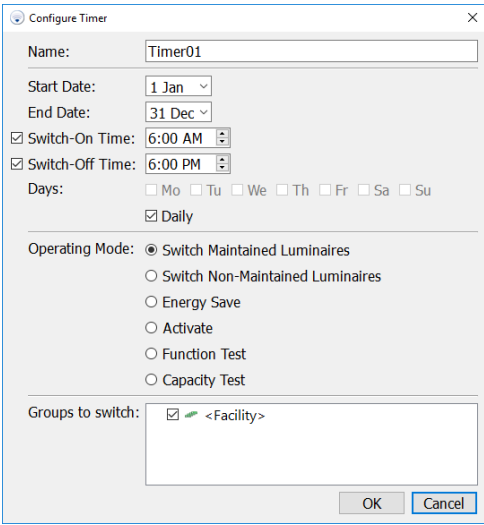


Figure 65: Configure Timer window

Field	Function
Name	The timer's name
Start Date	Date from which the timer is active
End Date	Date from which the timer is inactive
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 timer should be active or select <b>Daily</b>
Operating Mode	Select the timer's switching function. Select from: Switch maintained emergency luminaires Switch non-maintained emergency luminaires Energy Save (turns all switchable emergency luminaires off) Activate (turns all switchable maintained emergency luminaires on) Function test (start a function test on selected groups) Capacity test (start a capacity test on selected groups)
Groups to switch	Select the groups whose emergency luminaires are to be switched

Table 25: fields in the Configure Timer window

If you make any changes in the **Timer** tab, select **Save System Data** to save the changes.

**Note:** For function and capacity testing, only the switch-on time must be set. Otherwise error message.

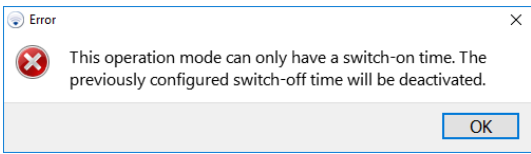


Figure 66: Failure timer programming

Timer-controlled function or capacity tests are recommended if small test groups are necessary. A manual test will perform on a selection of luminaires.

**Note:** Two timers triggering the functional tests must be programmed with a 1h interval.

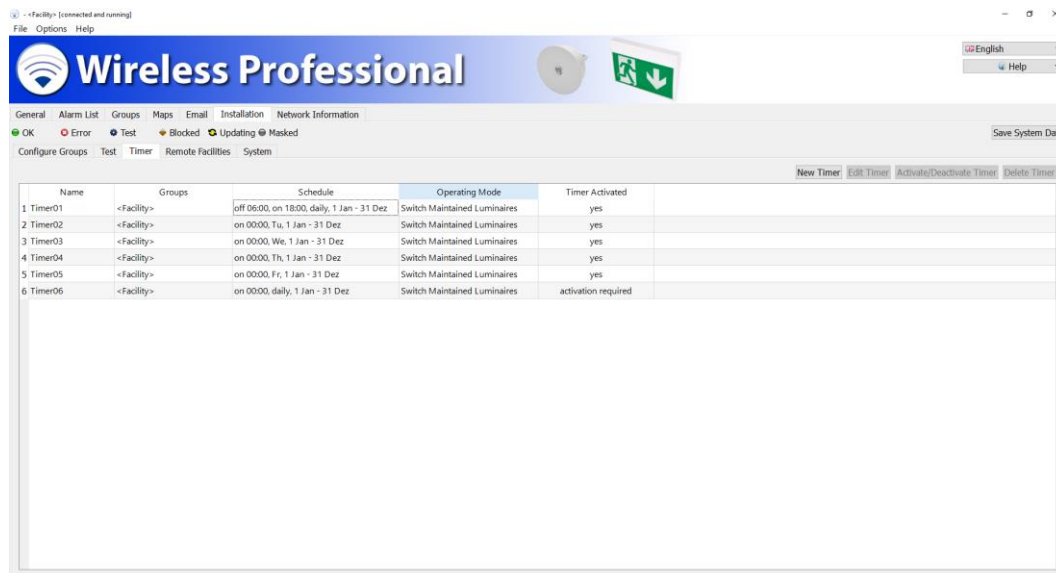


Figure 67: Overview programmed timer

By default the number of programmable timers is limited to 5 and can be extended by activation. For further information about system expansion, please contact your distributor.

### 5.12.4 Remote Facilities

To view the **Remote Facilities** tab, click on the **Installation** tab and in the lower tab bar on the **Remote Facilities** tab. The WirelessProfessional software is able to monitor other WirelessProfessional systems which are connected via Ethernet.

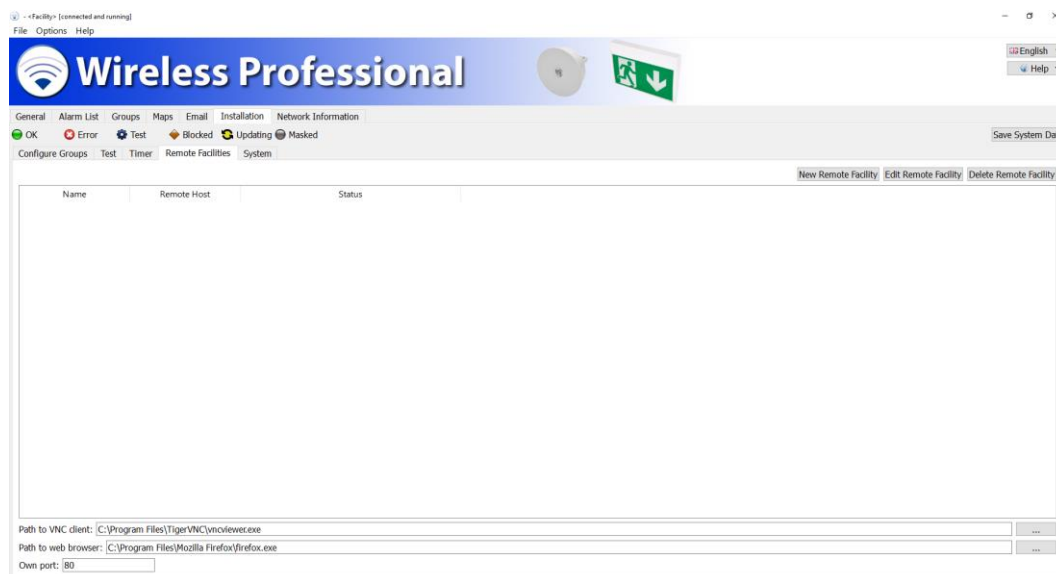


Figure 68: remote facilities tab, installer user level

The **New Remote Facility** button opens the configuration menu for remote facilities.

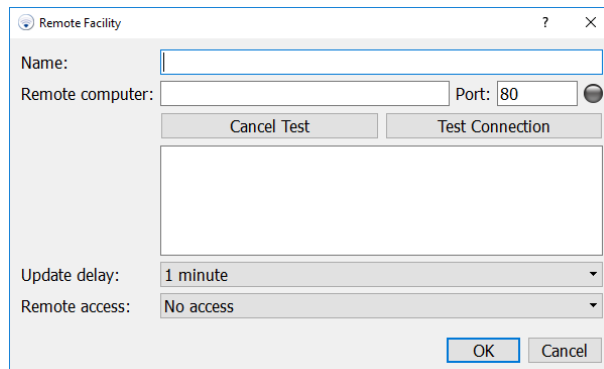


Figure 69: configuration remote facility

Enter any name for the monitored system (p.e.: WLTOUCH). In the input field "Remote computer" enter the ip address or device name and the port of the respective system. By using the button **Test connection** you can check the connection to the remote system.

- default port for WLCPC: 80
- default port for systems of the multiControl *plus* series: 81

If the connection to the remote system is successful (●), configure the Update delay. With the Update delay you can set how often data is requested from the remote system. Here you can choose between 10 seconds, 1 minute and 10 minutes.

With activated VNC access, it is possible to double-click or double-tap directly to the respective system build and operate it by remote control.

Prerequisite for the remote connection is:

- The device to be monitored is running TigerVNC Server
- The TigerVNC Viewer is installed on the monitored device

(Pre-installed or supplied as setup under c:\WirelessProfessional\CPC Tools\TigerVNC\windows\).

If all configurations have been made, confirm with OK.

**Note:** A remote device can be a multiControl plus series system, with XML version 1, or a WirelessProfessional system. In addition, the type of remote access is selectable.

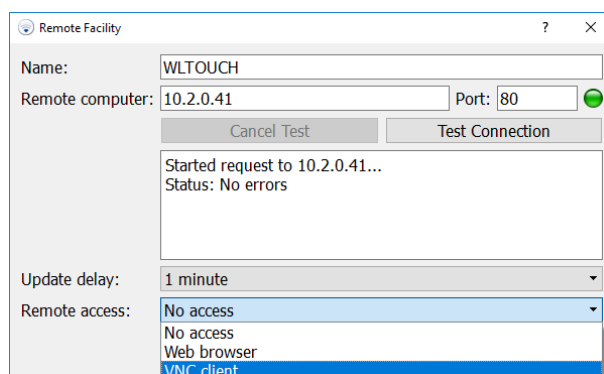


Figure 70: connection test remote computer

All monitored systems are listed with name, IP address and status. With the button **Edit Remote Facility** you can open the respective configuration menu and edit it again. With the button **Delete Remote Facility** it is possible to delete the respective system from monitoring.

The file path of the VNC Viewer can be selected via the button at the bottom right. By default, the folder of the VNC viewer is C:\Program Files\TigerVNC. Select the vncviewer.exe and click on Open. If the installation path deviates from the standard path, select it accordingly.

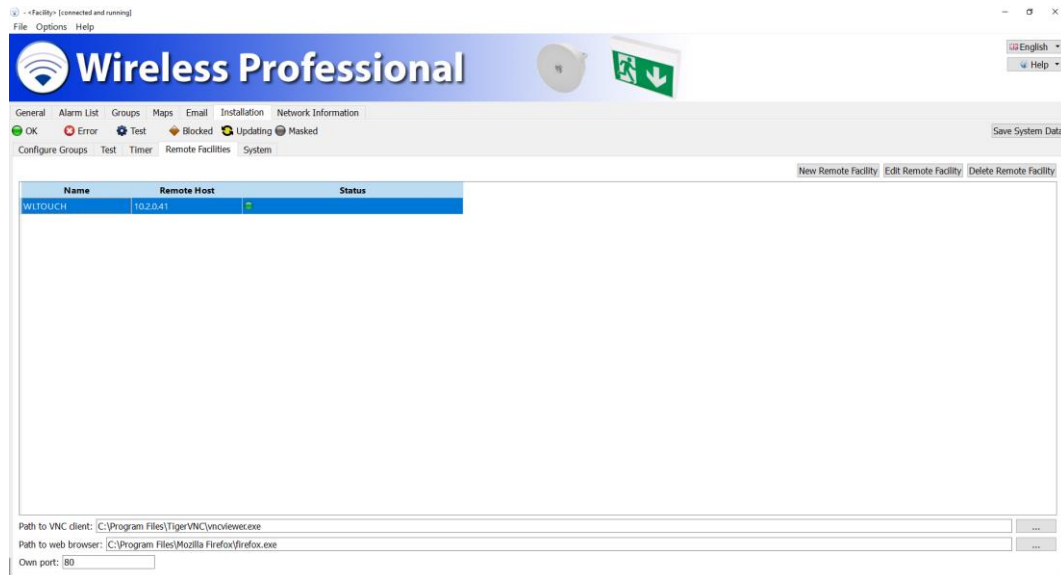


Figure 71: Overview remote facilities

The number of monitored systems is limited to 1 by default and can be extended by activation (see 5.16). For further information about system expansion, please contact your distributor.

In the General view, you now see not only the main system but also all systems to be monitored by the main system.

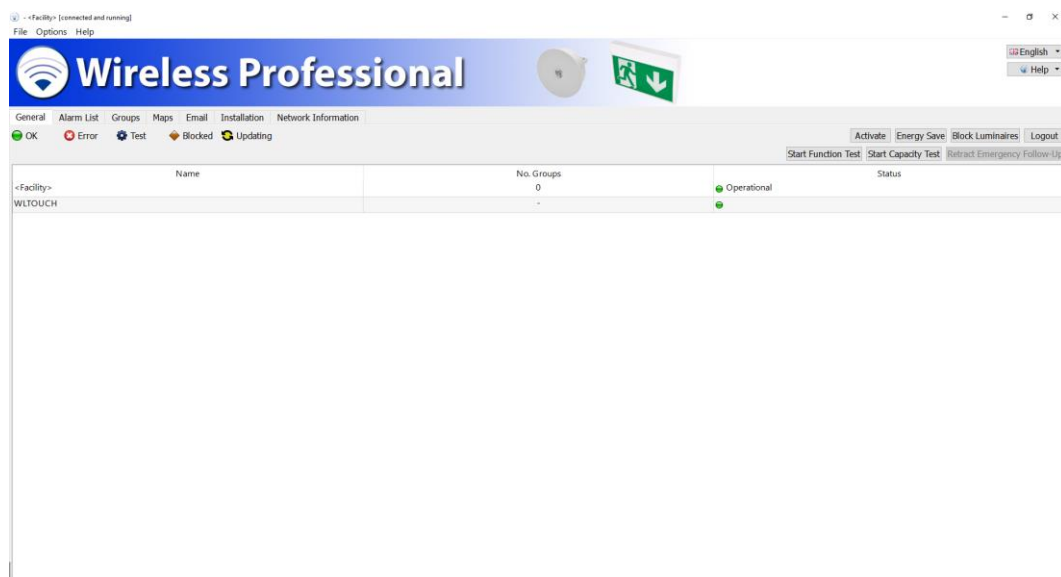


Figure 72: monitoring remote facilities

By double-clicking or double-tapping in "No. Groups" or "Status" column of the corresponding system, the remote access to the respective system is established.

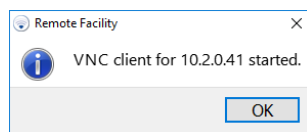


Figure 73: VNC client started

Enter the password, which is "123456" by default and then click OK.

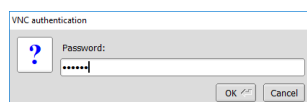


Figure 74: VNC Client enter password

In the window that opens, you have full access to the remote system.

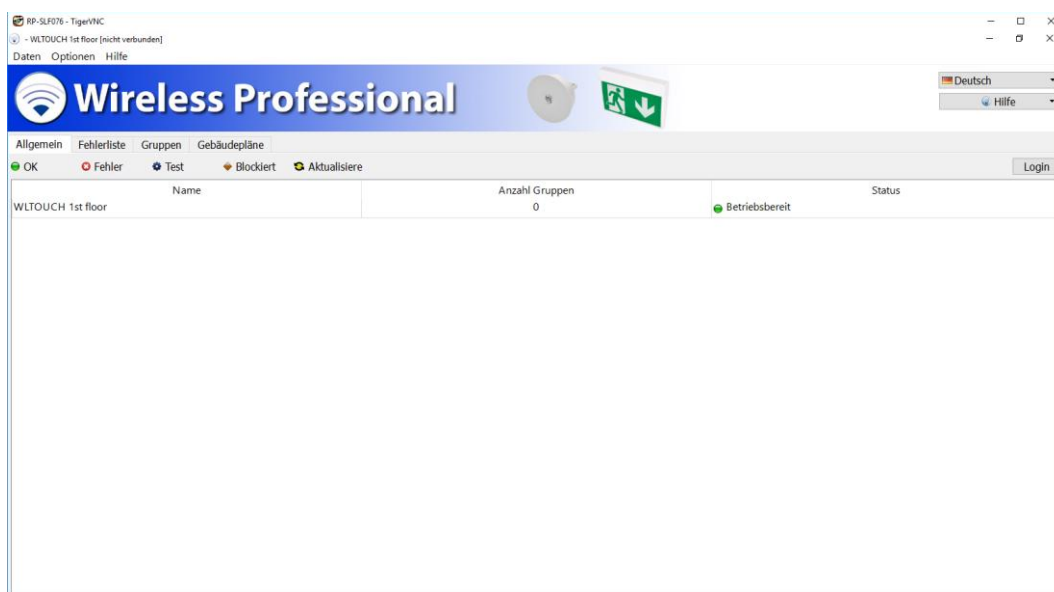


Figure 75: Access to the remote system

### 5.12.5 System tab

To view the **System** tab, click on the **System** tab in the lower tab bar on the **Installation** tab.

The installer's contact details are entered on the **System** tab. In addition several other settings that affect the overall emergency lighting system are located on the **System** tab. Figure 76 shows a screenshot of the **System** tab.

Table 25 lists the fields in the **System** tab and explains their function.

Field	Function
<b>First Name, Last Name, Company, Phone, Email</b>	Installer's contact details. These contact details are shown in the <b>Maintenance Due</b> reminder window.
<b>System Name</b>	Name for the system
<b>Project Name</b>	Name for the project
<b>Time to connection error</b>	Time span from a broken wireless connection until an error is reported. This setting applies to all devices except IO-Boxes.
<b>Time to connection error for IO boxes</b>	Time span from a broken wireless connection with an IO-Box until an error is reported. In addition to the error message, the IO-Box's relay 1 (output K1) drops out.
<b>Emergency follow-up time</b>	Time from the end of a fire alarm until the emergency luminaires are turned off again. If <b>Manual Retraction</b> is chosen, the emergency follow-up time must be ended with the <b>Retract Emergency Follow-Up</b> button on the <b>General</b> tab.
<b>Commands waiting</b>	Number of commands that remain to be transmitted to a device
<b>Commands in execution</b>	Number of commands in the USB-Koordinators output buffer

Table 26: fields on the System tab

The larger of the two time spans **Time to connection error** and **Time to connection error for IO-Boxes** determines the minimum time which the automatic test system displays the **Status is being updated** (colour symbol 🟡) message at start-up. The system cannot change to the **No errors** (colour symbol 🟢) status prior to this time span having passed because a connection error, that is present from start-up onwards, can only be reported after the time span **Time to connection error** has passed.

The screenshot shows the 'System' tab in the 'Wireless Professional' software. The interface includes a menu bar (File, Options, Help) and a toolbar with icons for OK, Error, Test, Blocked, Updating, and Masked. The main area contains the following fields:

- First name: John
- Last name: Smith
- Company: ABC Utilities Management
- Phone: 071 1234567
- Email: smith@abc-utilities.com
- System name: <Facility>
- Project name:
- Time to connection error: 10 minutes
- Time to connection error for IO Boxes: 10 minutes
- Emergency follow-up time: Manual Retraction
- Commands waiting: 0
- Commands in execution: 1

At the top right, there are icons for a satellite dish and a fire alarm, and a language dropdown set to English. A 'Save System Data' button is located at the top right of the main area.

Figure 76: System tab, installer user level

After interrupting an installation or replacing the coordinator, the system ID must be reentered in all devices. Use herefor the button **Reconnect all devices**. During this process, the system allocation is temporarily deleted from the devices. These will still be displayed in the **Registered Nodes** section. Devices of other systems in range are temporarily displayed in the **Unknown Nodes** area.

**Attention:** The **Reconnect all devices** function is also executed in all other systems in range. Due to the resulting high radio revenue, it may take several hours for this process to complete. If you made changes in the **Configure Groups** view, select **Save system data** to complete the changes.

Table 27 lists the functions that can be accessed from the **System** tab with the buttons.

Button	Function	User level
Serial Port	Manually set the USB-Koordinator's port	Installer
Change Installer Password	Change the installer password	Installer
Reset Facility Manager Password	Sets the facility manager password back to 1111	Installer
Import Inspection Log	Not implemented	Installer
Export Groups	Exports the groups-structure in a file with csv (comma separated values) format	Installer

Table 27: functions accessible on the System tab

If you make any changes in the **System** tab, select **Save System Data** to save the changes.

5.13 Network Information tab

To view the **Network Information** tab, click on the **Network Information** tab in the tab bar. The **Network Information** tab is only available on the installer and distributor user levels.

The upper section of the **Network Information** tab shows the wireless signal strength of the devices, which are in direct range of the USB-Koordinator. In Figure 77, devices within direct range of the USB-Koordinator are marked. Figure 78 shows a screenshot of the **Network Information** tab. The size of the bars indicates the signal strength. The devices' addresses are displayed above the bars.

After the device's signal strength has been measured, a two-minute timer is started. While the timer is running, the colour of the bar indicating the signal strength changes from green to grey. If the two-minute timer expires without a new signal strength value for the device being acquired, the device is removed from view.

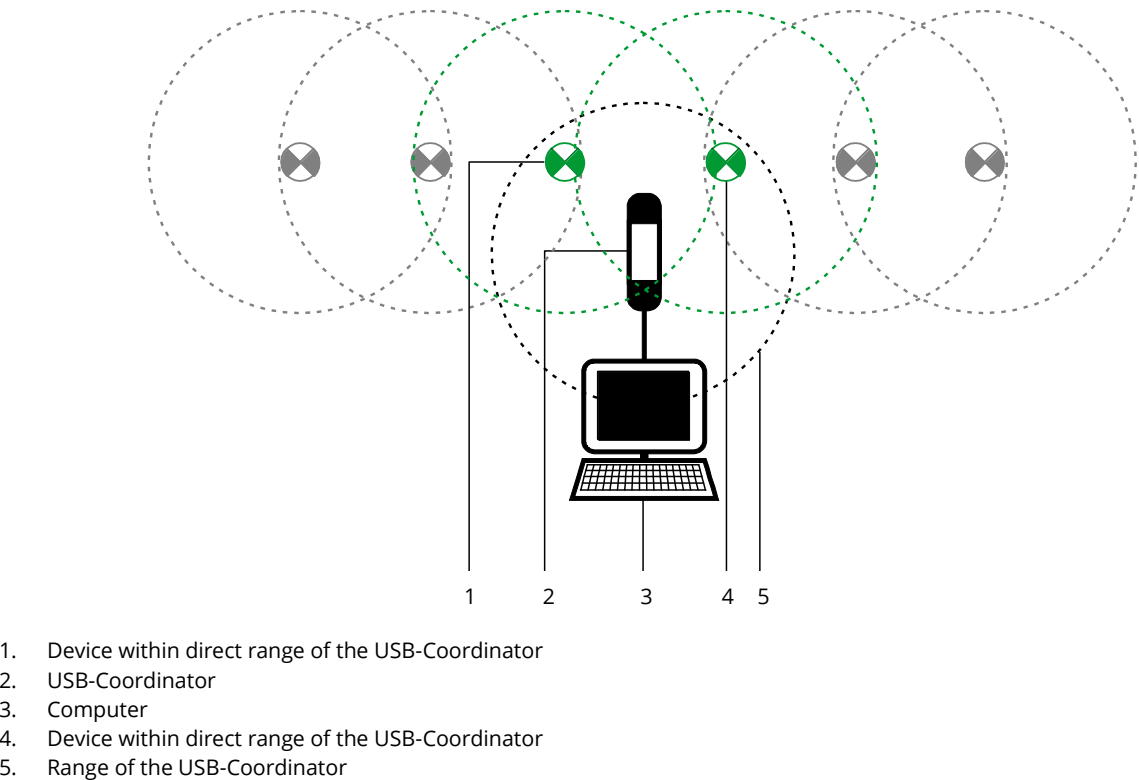


Figure 77: devices within direct range of the USB-Koordinator

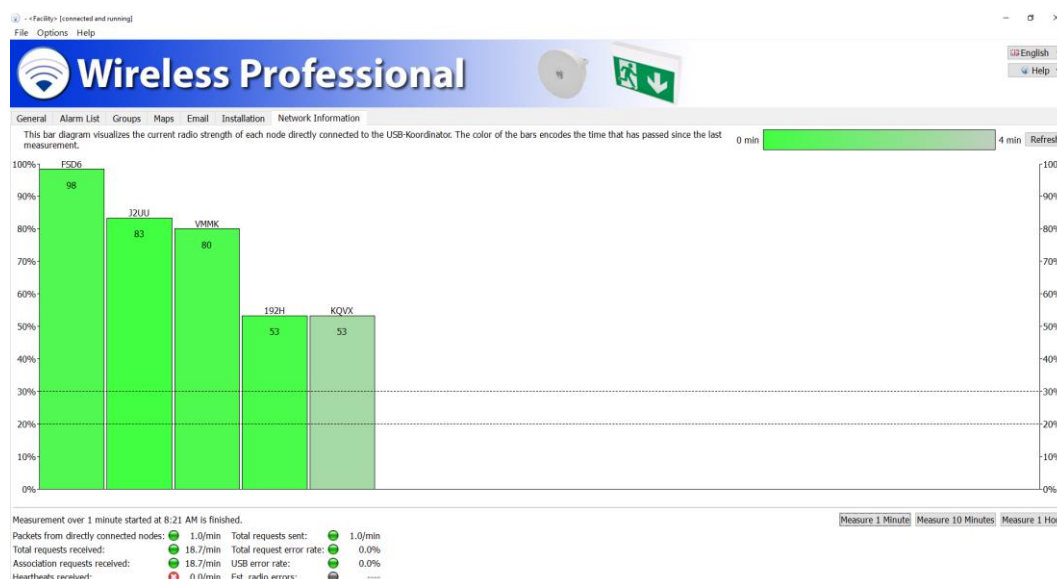


Figure 78: Network Information tab, installer user level

The lower section of the **Network information** tab serves to measure various parameters of the wireless network. These measurements are useful for troubleshooting. If a measurement is necessary, the distributor will carry it out or ask you to do it and communicate the results.

Start the measurement with the button **Measure 1 Minute**, **Measure 10 Minutes** or **Measure 1 Hour**.

Before a measurement over 1 hour is started, set the logout time on the **Email** tab to **never** and complete the change with **Save System Data**.

Table 28 lists the fields in the lower section of the **Network information** tab and explains their function.

Field	Function
<b>Packets from directly connected nodes</b>	Number of wireless packets per minute from devices within direct range of the USB-Coordinator. This measurement's colour symbol turns yellow or red if too many devices are in direct range of the USB-Coordinator.
<b>Total requests received</b>	Total number of requests per minute sent from devices to the automatic test system
<b>Association requests received</b>	Number of requests per minute from devices which aren't already registered in any system
<b>Heartbeats received</b>	Parameter of the wireless network
<b>Total requests send</b>	Number of requests per minute sent from the automatic test system to the devices
<b>Total request error rate</b>	Percentage of requests, which cannot be transmitted to the devices
<b>USB error rate</b>	Percentage of requests, which cannot be transmitted via the USB connection to the USB-Coordinator

Table 28: fields in the lower section of the **Network Information** tab



### 5.14 Distributor tab

To view the **Distributor** tab, click on the **Distributor** tab in the tab bar. The **Distributor** tab is only available on the distributor user level.

The distributor's contact details and company logo are entered on the **Distributor** tab. In addition other general system settings are located on the **Distributor** tab. Figure 79 shows a screenshot of the **Distributor** tab.

Table 29 lists the fields on the **Distributor** tab and explains their function.

Field	Function
<b>Company, Contact person, Phone, Email</b>	Distributor's contact details.
<b>Logo</b>	Company logo that is displayed between the menu bar and the tab bar. If no distributor logo is loaded, the WirelessProfessional logo will be displayed. Figure 79 shows the <b>Distributor</b> tab with the distributor's logo. Click on the <b>Search</b> button to open a dialogue window and select the logo file. The logo will be displayed after the <b>Save System Data</b> button has been clicked. Click on the <b>Reset</b> button to change back to the WirelessProfessional logo.
<b>Maintenance notification</b>	The WirelessProfessional software displays maintenance signals according to the maintenance time intervals set. The maintenance tab is only accessible via the <b>Help</b> menu when <b>Maintenance notification</b> is selected.
<b>Next maintenance</b>	Date when the <b>Maintenance Due</b> window is displayed. Once maintenance is complete, the date for the next maintenance will be set according to the maintenance time interval selected.
<b>Maintenance interval</b>	Period of time between the completed maintenance and the next maintenance signal
<b>Maintenance password protected</b>	The password that must be entered in the <b>Maintenance tab</b> in order to complete the maintenance. The maintenance password is created automatically from the USB-Coordinator address by the WirelessProfessional software and cannot be chosen by the user.
<b>Maintenance plan 1-3</b>	File paths of the maintenance plans and texts displayed of the links to the maintenance plans
<b>Send maintenance emails</b>	Sends emails with a reminder that the maintenance is due
<b>Reduced duration test</b>	The length of time taken to carry out the duration test can be reduced here from the full test time to 2/3 of the test time.

Table 29: fields on the distributor tab

ABC Technik

General Alarm List Groups Maps Email Installation Network Information Distributor

Acknowledge Tests Reset Invalid Devices Change Distributor Password Reset Installer Password Save System Data

Company: ABC Technik  
 Contact person: Max Mustermann  
 Phone: 030 1234567  
 Email: mustermann@abc-technik.de

Logo: BANNER ABC-Technik.png Search Reset

Registration:  
 Registration after: 30days

Maintenance notification:  
 Next maintenance: 6/24/20  
 Maintenance interval: Yearly  
 Maintenance password protected: Password: uyp

Maintenance plan 1: Text: Wartungsplan auf Deutsch File: C:\WirelessControl\Dok\Wartungsplan.pdf  
 Maintenance plan 2: Text: Maintenance plan in English File: C:\WirelessControl\Dok\Maintenanceplan.pdf  
 Maintenance plan 3: Text: File:

Send maintenance emails: ☐

Reduce capacity test duration:  
☒ Full autonomous time  
☐ 2/3 autonomous time

Figure 79: Distributor tab, distributor user level

Table 30 lists the functions that can be accessed from the **Distributor** tab with the buttons.

Button	Function	User level
<b>Acknowledge tests</b>	Deletes all entries of incorrect test results (duration test and functional test) out of the Alarm list tab. The incorrect test results aren't removed from the inspection log and it is stated there that the acknowledge tests function has taken place. The relevant test for emergency luminaires with incorrect test results is displayed with an orange colour symbol in the luminaire's details window and the error is displayed as "acknowledged" if the mouse cursor is placed on the colour symbol.  The function Acknowledge tests has the purpose of allowing the distributor to leave a customer's system without error messages if errors occurred during a duration test and were eliminated but the emergency luminaires must be charged for 20 hours before the next duration test can be started.	Distributor
<b>Reset Invalid Devices</b>	Registers the firmware of invalid devices in the system. The error message <b>Device invalid</b> is displayed if the firmware of a device already registered in the system is updated.	Distributor
<b>Change Distributor Password</b>	Change the distributor's password	Distributor
<b>Reset Installer Password</b>	Resets the installer's password to 2222	Distributor
<b>Save System Data</b>	Saves changes	Distributor

Table 30: functions on the distributor tab

### 5.15 Maintenance tab

The **Maintenance** tab is only available via the Help menu or the maintenance notification. The entry **Maintenance** in the Help menu is only active if the distributor has activated the maintenance function. The **Maintenance** tab is available on the facility manager, installer and distributor user levels. Figure 80 shows a screenshot of the maintenance tab.

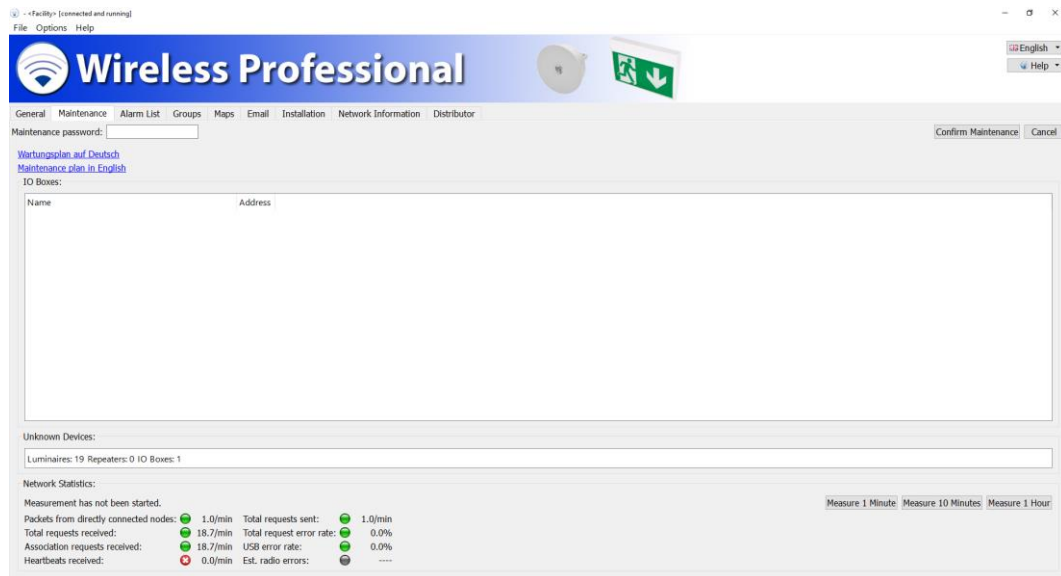


Figure 80: Maintenance tab, installer user level

To open the relevant maintenance plan, click on or touch the link **Maintenance plan in English**. The maintenance plan contains detailed instructions for the system's maintenance.

One element of the maintenance is the inspection of the relays of the IO-Boxes. The IO-Boxes in the system are listed in the **IO-Boxes** section. A double click or two touches on the entry of one IO-Box in the **IO-Boxes** section will open the device details window of this IO-Box. The relay to be tested can be switched using the **T** button in the configuration tab (refer to section 0). Using the **Complete maintenance** button, maintenance can be completed, the maintenance window is shut and the timer for the next maintenance date is set. The **Complete maintenance** button is secured with a password. In order to end the maintenance with the **Complete maintenance** button, enter the maintenance password on the left hand side of the **Maintenance** tab.

### 5.16 Activation

Click on or touch a device twice in the **Alarm List** tab, the **Groups** tab or the **Configure Groups** tab to open the device's details window. The **Device Details** windows vary according to the type of device.

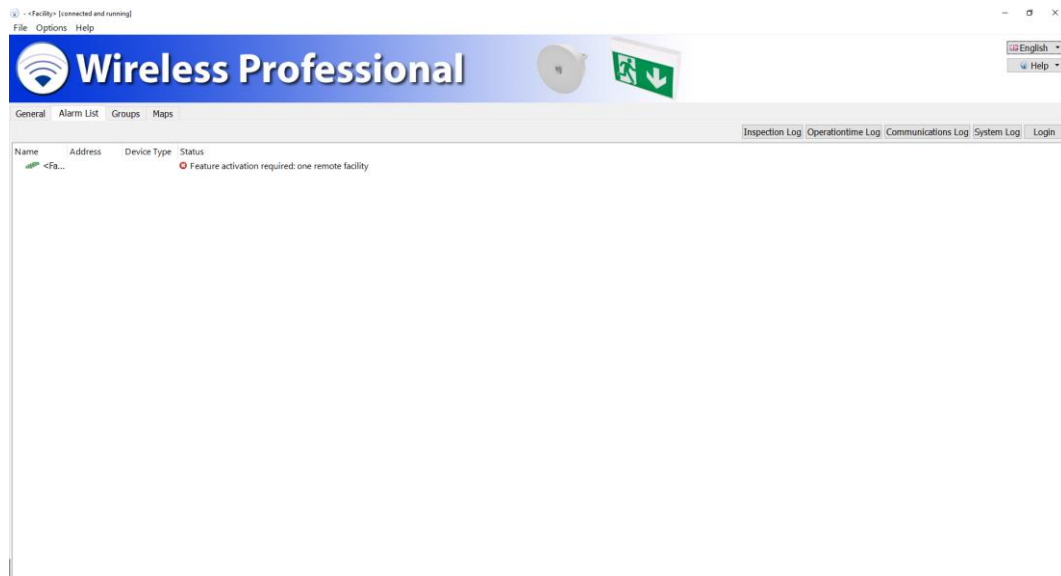


Figure 81: required activation

The **Device Details** windows can be opened on all user levels but the entries can only be edited on the installer user level. Click on **Help** and afterwards **Activation**.

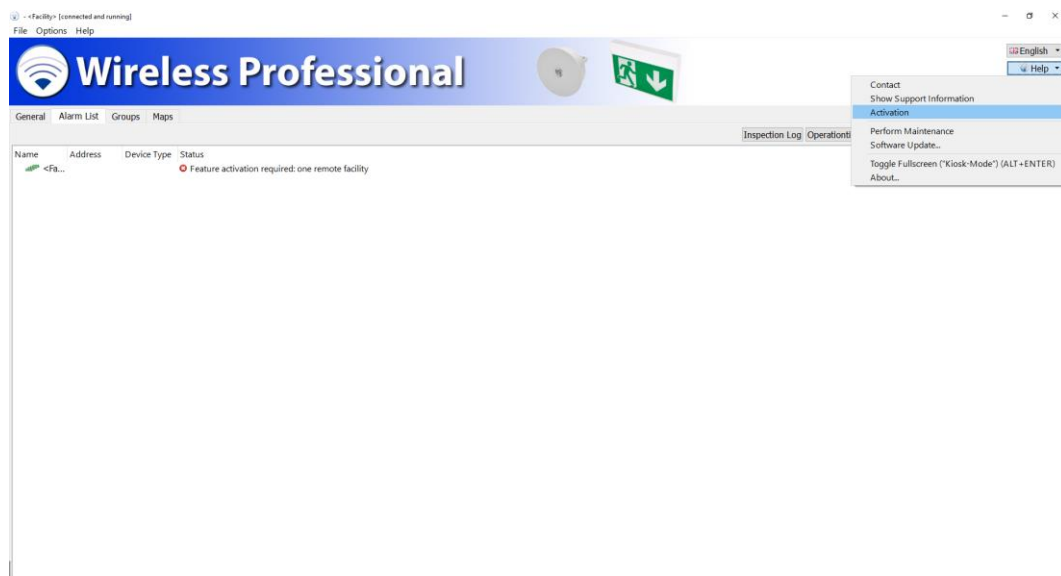


Figure 82: open activation menu

Here is the current state of the system (standard delivery condition: 250 devices, 5 timers, 1 monitorable device) displayed and you have the possibility over a activation code to increase the number of remote facilities that can be monitored, the number of usable timers and the number of remote systems to be monitored.

Select the features you want to unlock by clicking in the circular area next to the corresponding option. Through the features to be unlocked you generate a request code under the point "Request activation code".

Several features with a request code can be requested.

Please send this code to your service partner. You will get the activation code with which you can unlock and use the requested features.

The button **Copy to clipboard** allows you to insert the request code manually, for example in an e-mail. By using the button **Send Email...** the Request Activation Code is automatically sent to the e-mail address, which is deposited under Distributor. With the button **Save as file...** you can save the Request Activation Code as a text file.

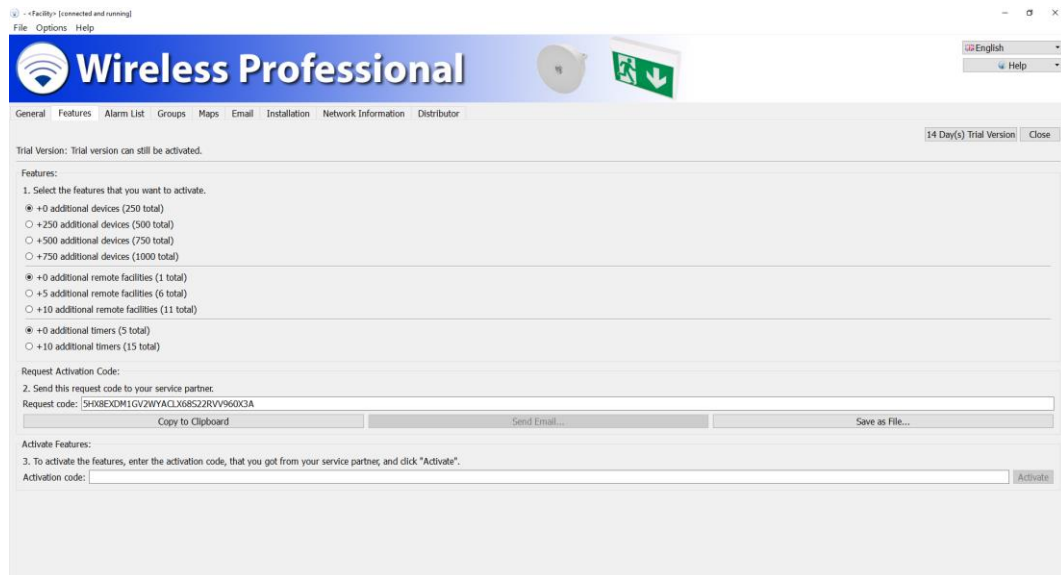


Figure 83: overview activation menu

**Note:** Request- and Activationcode are just for this specific system valid and cannot be transferred to other systems!

Now enter the activation code, which you received from your sales partner.  
Upon successful entry, you will receive the following message.

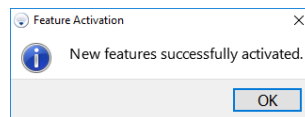


Figure 84: Features successfully activated

If you enter an invalid code, the following error message appears.

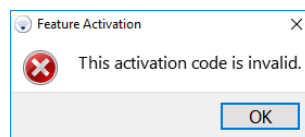


Figure 85: Invalid activation code

If your system is assigned to WirelessControl devices (devices until April 2016), a corresponding warning symbol is displayed in the activation menu. See **Details** for information on which devices comply with the WirelessControl specification.

**Note:** If the list is empty, only the coordinator does not conform to the WirelessProfessional specification.

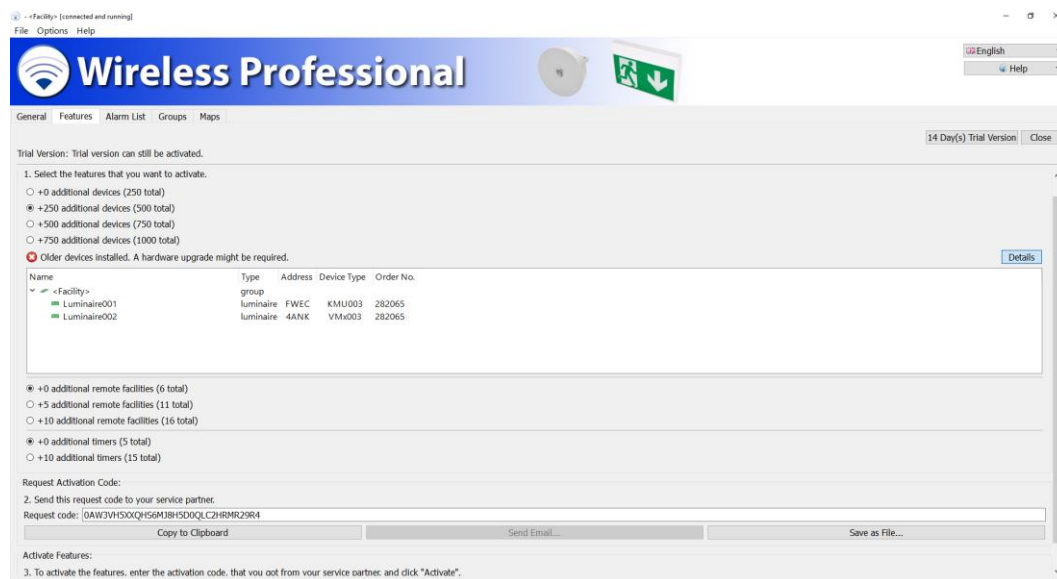


Figure 86: Overview WirelessControl devices

### 5.16.1 14 Days Trial Version

The **14 Day(s) Trial Version** button unlocks all features of the WirelessProfessional for a period of 14 days. During this time you can test all the features for free. After the test time, all features that have not been unlocked are disabled. The activation menu gives you information about the remaining test time.

**Note:** This activation is only possible once!

### 5.17 Device details

Click or tap twice on a device in the tab **error lists, groups** or **configure groups** to open the device details window of the device. The device detail windows differ depending on the device type.

The device detail windows can be opened on all user levels. However, the entries can only be edited on the user level **Installer**.

#### 5.17.1 Device details emergency luminaire

The **Device Details** window for emergency luminaires allows the luminaire's position to be entered and the operating mode to be changed between maintained and non-maintained emergency luminaire. The **Device Details** window shows the luminaires position on the floor plan, its address and the results of the last three tests. If you position the mouse pointer on one of the colour symbols, the test's date and time as well as the test result are displayed.

The screenshot shows the 'Device Details' window for a device named 'Notleuchte001'. The window has a title bar with a close button. Below the title bar is a header area with a green status icon and the device name. The main content area is divided into two tabs: 'General' (selected) and 'Information'. The 'General' tab contains a 'Settings' section with the following fields: 'Position' (text box with 'Notleuchte001'), 'Operating mode' (dropdown menu with 'Non-maintained Luminaire'), 'Position on map' (text box with '----'), and 'Address' (text box with 'J2UU'). Below the settings is a 'Test results' section with a table of test results. The table has four columns: 'Succeeded' (green circle), 'Failed' (red X), 'Failed, but Confirmed' (yellow triangle), and an empty column. The rows represent different test types and their results.

	Succeeded	Failed	Failed, but Confirmed	
Last 3 manual function test results:	N/A	N/A	N/A	N/A
Last 3 manual capacity test results:	N/A	N/A	N/A	N/A
Last 3 automatic function test results:	N/A	N/A	N/A	N/A
Last 3 automatic capacity test results:	N/A	N/A	N/A	N/A

At the bottom right of the window are 'OK' and 'Cancel' buttons.

The screenshot shows the 'Device Details' window for a device named 'Notleuchte001'. The window has a title bar with a close button. Below the title bar is a header area with a green status icon and the device name. The main content area is divided into two tabs: 'General' and 'Information' (selected). The 'Information' tab contains a list of device information: 'Hours of operation: 0 h', 'Up time: 21 hours, 47 minutes', 'Type: Luminaire', 'Operating mode: Non-maintained Luminaire, switchable', 'Function test duration: 2 minutes', 'Capacity test duration: 3 hours', 'Autonomous time: 3 hours', 'Minimal voltage: 3.6 V', and 'Maximal voltage: 6.8 V'. At the bottom right of the window are 'OK' and 'Cancel' buttons.

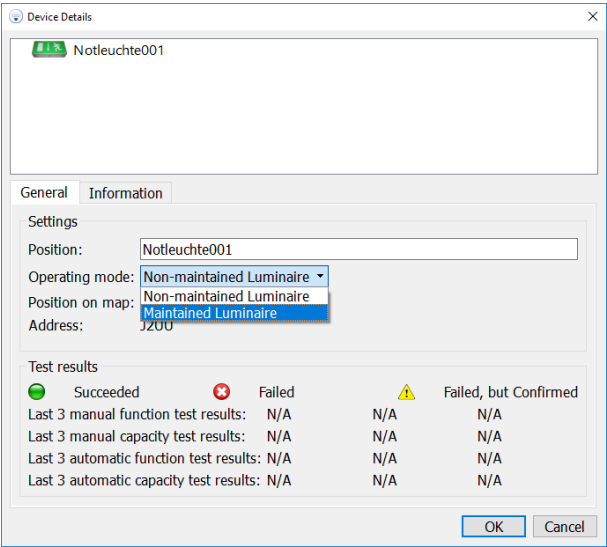


Figure 87: detail window emergency luminaire

Device type	Function
Maintained luminaire	Luminaire fpr constant lighting and in case of power failure of the general lighting
Non-maintained luminaire	Luminaire for lighting in case of power failure of the general lighting

5.17.2Device details repeater

The **Device Details** window for repeaters allows the repeater’s position to be entered and the position on the floor plan and the device’s address are shown.

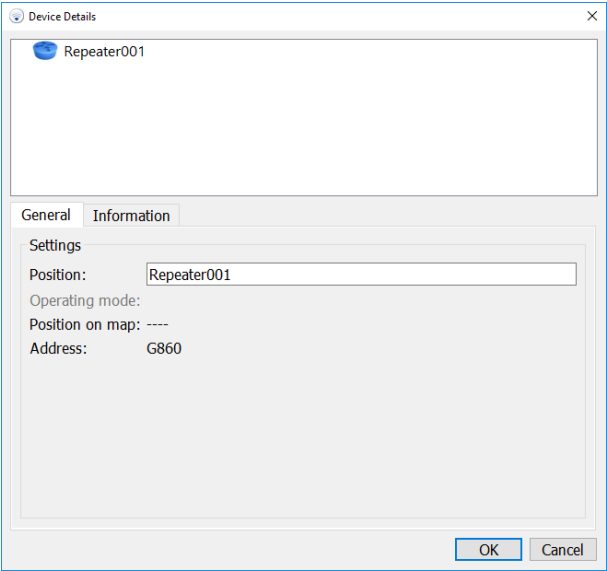


Figure 88: device details repeater



### 5.17.3 Device details IO-Box

The **General** tab of the **Device Details** window for IO-Boxes allows the IO-Box's position to be entered and the position on the floor plan and the device's address are shown. Additionally the current status of the mains supply and the switching status of the three outputs (K1-K3) and the two inputs (E1, E2) are displayed with the same colours as those of the indicators on the IO-Box.

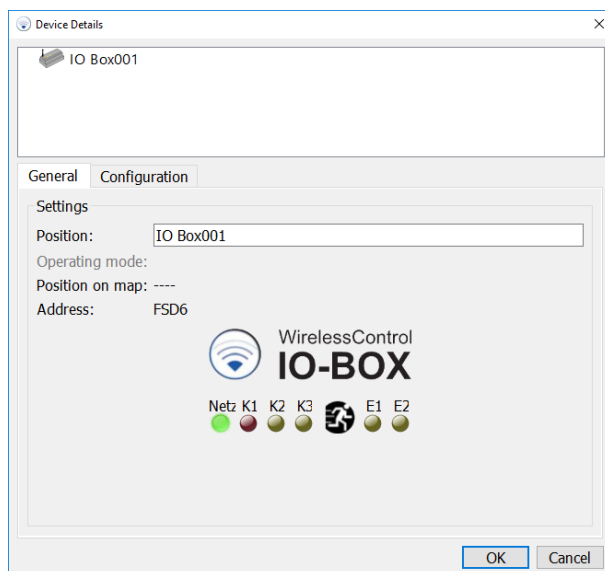


Figure 89: device details IO Box, General tab

The inputs and outputs can be configured on the **Configuration** tab of the **Device Details** window for IO-Boxes.

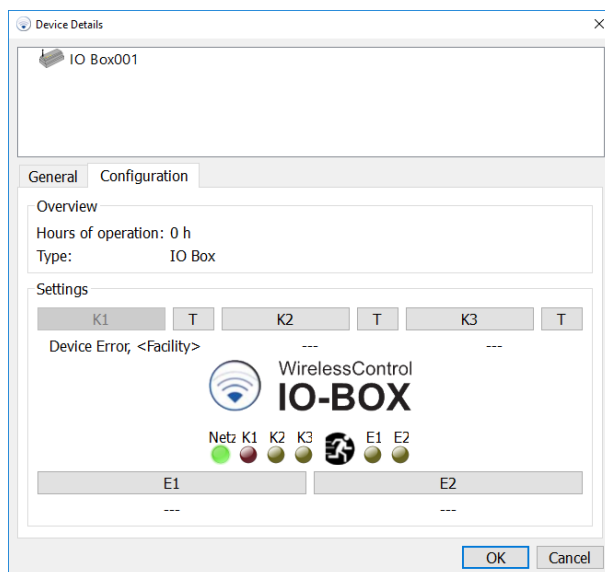


Figure 90: device details IO box, Configuration tab

Select the buttons **K2** or **K3** on the **Configuration** tab to set up the IO-Box's outputs 2 or 3. Figure 90 shows the **Configure IO Box Output** window. The **Output State** section of the window facilitates the selection of the event that triggers the output relay. Table 31 explains the events the user can select from. The **Groups applying** section allows groups to be selected in which the selected event must occur in order to trigger the output. If one of the events **Energy Save / Activate**, **Fire Alarm** or **Disabled** is chosen, the **Groups applying** section is inactive, because these events always affect the entire system.

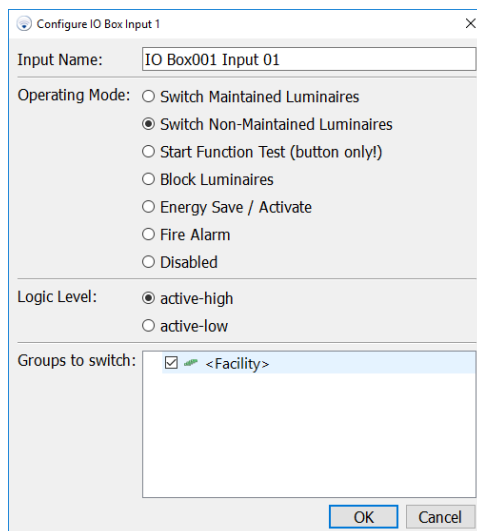


Figure 91: Configure IO Box Output window

Event	Function
<b>Test Running</b>	Output is closed while a test is running
<b>Last Test Failed</b>	Output is closed if the last test was finished with errors
<b>Maintained Luminaires switched</b>	Output is closed if at least one maintained emergency luminaire is turned off
<b>Non-Maintained Luminaires switched</b>	Output is closed if at least one non-maintained emergency luminaire is turned on
<b>Luminaires Blocked</b>	Output is closed if at least one emergency luminaire is in remote inhibiting mode
<b>Energy Save / Activate</b>	Output is closed if all switchable emergency luminaires are turned off
<b>Fire Alarm</b>	Output is closed in case of a fire alarm at the corresponding IO-Box input
<b>Disabled</b>	Output is disabled

Table 31: events that trigger the IO-Box's outputs

Output 1 (K1) always switches on the event **Device Error** and cannot be configured. The relay of output 1 drops out whenever a device reports an error. If the wireless connection between the IO-Box and the automatic test system is broken, the relay of output 1 is delayed by the time span **Time to connection error for IO boxes**. The time span **Time to connection error for IO boxes** can be set on the **Installation/System** tab (section 5.12.5).

Using the **T**-buttons in the configuration tab, the output relays can be checked. The **T**-buttons are used to switch the relays of the corresponding outputs. Once the configuration tab is exited, the K1-K3 output relays return to switching status corresponding to the configuration of the respective output.

Select the buttons **E1** or **E2** on the **Configuration** tab to set up the IO-Box's input 1 or 2. Figure 92 shows the **Configure IO Box Input** window. In the **Input Name** field a name can be assigned. In the **Operating Mode** section, the action that is triggered by the input signal can be selected. Table 32 explains the actions in the **Operating Mode** section. The **Logic Level** section allows selection of whether the action is triggered by a high level (active-high) or a low level (active-low) at the input. In the **Groups to switch** section, the groups in which the selected action should be performed on can be chosen. If one of the actions **Energy Save / Activate**, **Fire Alarm** or **Disabled** is chosen, the **Groups to switch** section is inactive, because these events always affect the entire system.

Figure 92: Configure IO Box Input window

Action	Function
<b>Switch Maintained Luminaires</b>	Switches maintained emergency luminaires on/off
<b>Switch Non-Maintained Luminaires</b>	Switches non-maintained emergency luminaires on/off
<b>Start function test</b>	Starts a functional test
<b>Block luminaires</b>	Turns emergency luminaires into remote inhibiting mode
<b>Energy Save / Activate</b>	Turns all switchable emergency luminaires off / turns all maintained luminaires on
<b>Fire Alarm</b>	Turns all switchable emergency luminaires on
<b>Emergency mode 1h</b>	Turns selected groups for 1 hour into an emergency mode (not available in any regions)
<b>Disabled</b>	Input is disabled

Table 32: Actions triggered by an IO-Box input

## 5.18 Menus

In the WirelessProfessional software, the menu bar is located below the title bar. **In full screen mode, the menu bar is not displayed!** You can switch between full screen mode and normal display mode with Alt + Enter.

### 5.18.1 File menu

Figure 93 shows a screenshot with the **File** menu folded out. Table 33 explains the entries in the **File** menu. The items **Inspection Log**, **Communications Log** and **System Log** have the same effect as the functions on the **Alarm List** tab.

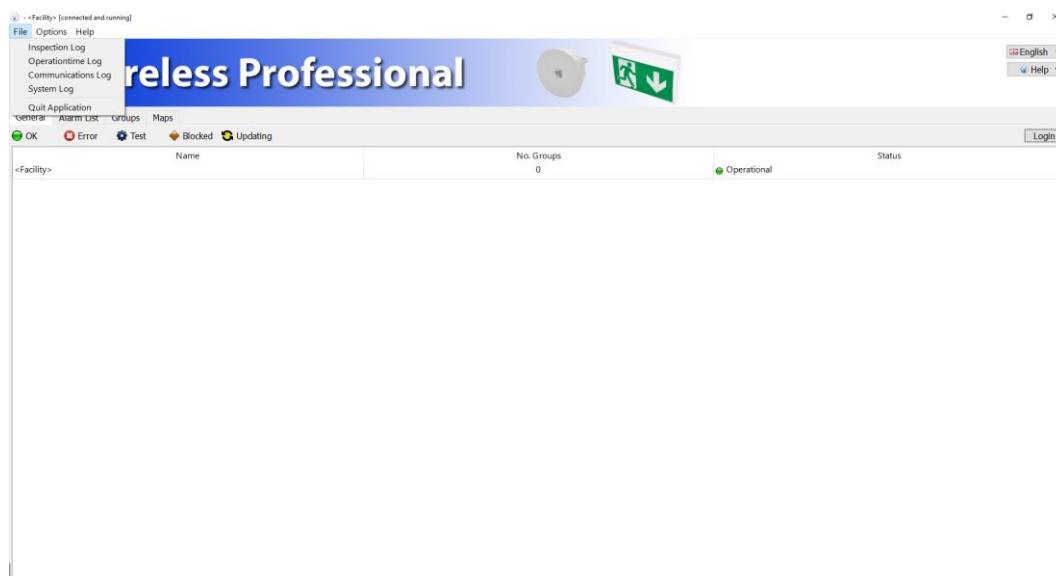


Figure 93: File menu

Menu item	Function
<b>Inspection Log</b>	Opens the inspection log. See section 5.8.1.
<b>Operationtime Log</b>	Not implemented
<b>Communications Log</b>	Opens the communications log. See section 5.8.2.
<b>System Log</b>	Opens the system log. See section 5.8.3.
<b>Quit Application</b>	Closes the WirelessProfessional software

Table 33: File menu

### 5.18.2 Options menu

Figure 94 shows a screenshot with the **Options** menu folded out. Table 34 explains the entries in the **Options** menu.

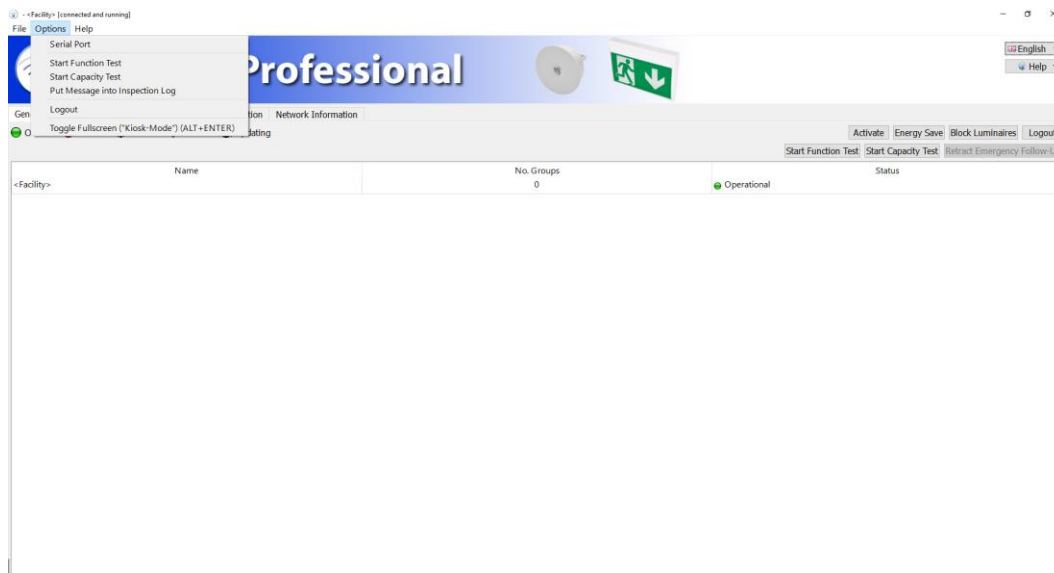


Figure 94: Options menu

Menu item	Function	User level
<b>Serial Port</b>	Manually set the USB-Koordinator's port	Anybody
<b>Start Function Test</b>	Starts a functional test on all emergency luminaires	Facility manager, installer
<b>Start Capacity Test</b>	Starts a duration test on all emergency luminaires	Facility manager, installer
<b>Put Message into Inspection Log</b>	Manually enter a message in the inspection log	Anybody
<b>Login / Logout</b>	Login / logout as facility manager or installer	-
<b>Toggle Fullscreen</b>	Changes to full screen mode	Anybody

Table 34: Options menu

The emergency luminaire batteries must be fully charged in order for a functional or duration test to take place (refer to sections 2.2 and 2.3).

### 5.18.3 Help menu

Figure 95 shows a screenshot with the **Help** menu folded out. Table 35 explains the entries in the **Help** menu.

Menu item	Function
<b>Contact</b>	Shows the installer's contact details
<b>Show Support Information</b>	Shows the USB-Koordinator's address (Device number), the software's build date and the installer's and distributor's contact details (Figure 96)
<b>Activation</b>	Opens the tab Feature. It is possible to unlock additional devices, additional monitored systems and additional timer.
<b>Perform maintenance</b>	Opens the <b>Maintenance</b> tab. The <b>Perform maintenance</b> entry is only active if the distributor has activated the maintenance function.
<b>Software Update</b>	WirelessProfessional can be updated from version 2.1 onwards. Via the view Software Update you can select a corresponding update file and install it on the system.
<b>Toggle Fullscreen</b>	Software is switched into full-screen mode
<b>About</b>	Shows the software version, the build date and the manufacturer

Table 35: Help menu

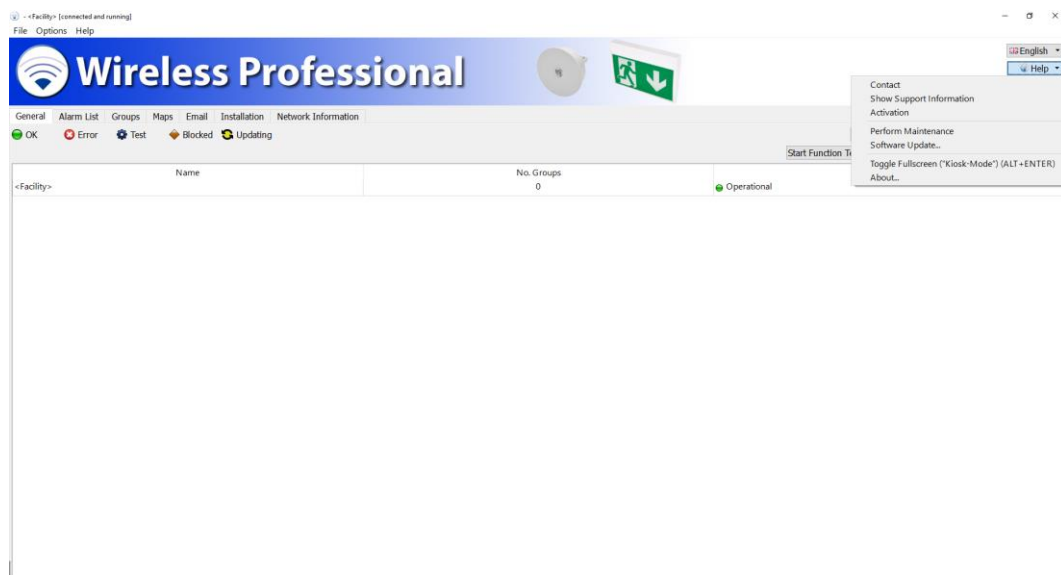


Figure 95: Help menu

There are two ways to access the help menu. One is via the upper taskbar, the other is on the right side via the button in the banner. The menu via the button in the banner has the option to switch the software into full-screen mode. This option is not available via the menu in the upper taskbar.

Send Support Information

General

USB-Koordinator address: 1FYA

Device number: 4294967274

Build date: Monday, July 1, 2019

Installer

First name: John

Last name: Smith

Company: ABC Utilities Management

Phone: 071 1234567

Email: smith@abc-utilities.com

Distributor

Company: ABC Technik

Contact person: Max Mustermann

Phone: 030 1234567

Email: mustermann@abc-technik.de

Order No:

Save

Cancel

Figure 96: Send Support Information window

## 6 Additional software

WirelessProfessional systems are delivered with additional preinstalled software. This software fulfils different functions in the WirelessProfessional system. Table 36 displays an overview of the additional preinstalled software.

For some of the software preinstalled on the computer it is necessary to obtain a license in order to be able to use the software. It is possible to operate a WirelessProfessional system from another computer using the VNC Server and Teamviewer Host software. The software transfers the screen content of the WirelessProfessional PC onto another computer from which the system can be operated. The respective Client software for the remote desktop connection must be installed on this computer (refer to Table 36).

Software	Function	License
<b>VNC Server</b>	Remote desktop software for local network connections. Client's download (VNC viewer) from <a href="https://www.realvnc.com/download/">https://www.realvnc.com/download/</a>	Server: Licence required, <a href="http://www.realvnc.com">www.realvnc.com</a> Client: no license required
<b>Teamviewer Host</b>	Remote desktop software for internet connections. Client's download (Teamviewer All-in-one) from <a href="http://www.teamviewer.com/de/download/index.aspx">http://www.teamviewer.com/de/download/index.aspx</a>	Server (Host): No license required Client: license required, <a href="https://www.teamviewer.com/de/">https://www.teamviewer.com/de/</a>
<b>Cobian Backup</b>	Backup software. Periodically saves the inspection log, communication log and system log.	No license required
<b>TigerVNC Server</b>	With TigerVNC Server a desktop vnc (virtual network computer) is starting. It starts Xvnc with the respective options and starts a window manager on the vnc desktop.	No license required
<b>TigerVNC Viewer</b>	TigerVNC Viewer is a viewer (client) for virtual networking computing. A remote desktop software for connections in a local network.	No license required

Table 36: Additional preinstalled software

## 7 Networking of systems

The following section describes how to configure the TigerVNC Server.

**Note:** If TigerVNC Server is not installed, it should be installed.  
The WirelessProfessional software package includes the TigerVNC Server.

1. Start "Configure VNC Server" via the startmenu

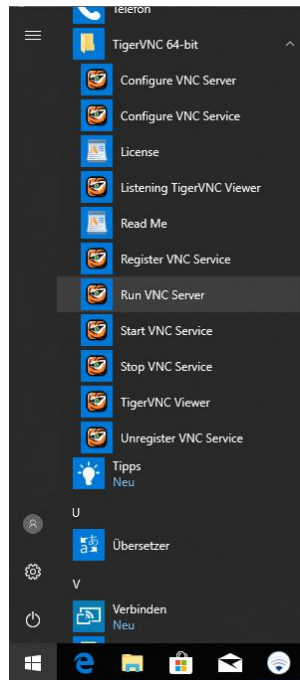


Figure 97: Windows - Quick start menu

2. Via **Configure** you can set a connection password.

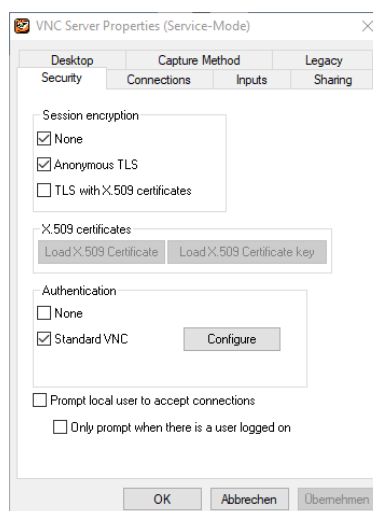


Figure 98: TigerVNC Server settings



3. In the menu point "Accept connections on port" change the port to 5901.

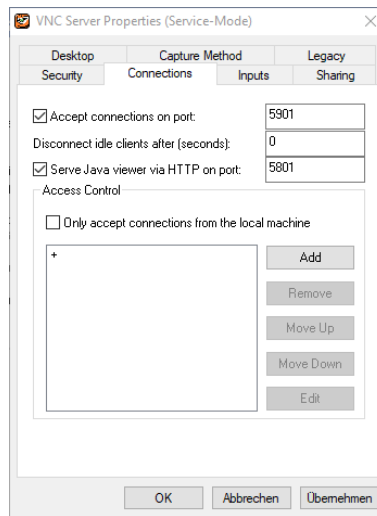


Figure 99: TigerVNC Server connections

4. Confirm with **Ok**
5. Start „Run VNC Server“ via the start menu. This shortcut must be stored in the autostart, so that the TigerVNC server is started automatically with Windows.

### Windows 10

- Press the key combination "Windows-key + R"
- Enter the command "shell:startup" and click OK
- The autostart folder will open automatically
- To start a new program in the autostart, click on the Windows icon in the bottom left-hand corner of the taskbar and find the desired program in the list. Then simply drag the entry into the startup folder via "drag & drop"
- Windows will automatically create a shortcut to the program you selected. At the next system start this program will be loaded automatically

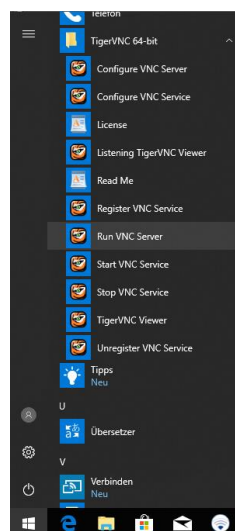


Figure 100: Windows - Quick start menu

6. There is a new icon for the TigerVNC in the task bar and it indicates that the server is running.

### **7.1.1 IP address**

For the Wireless Professional software to monitor another device via Ethernet, it is necessary that there is a network connection between the devices.

To set up the network adapter properties, admin rights are required on the system. If you do not have one, contact an administrator or distributor.

If the monitoring device is not in the same IP address space as the device to be monitored, a corresponding route from one IP address space must be routed through a gate to the other address space.

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

A device to be monitored can be addressed by the Wireless Professional software with both the DNS and the IP address. In order to be able to respond via DNS, the name server must be entered in the network configuration.

The establishment of the DNS takes place in the operating system. Please contact your administrator.

## 8 Troubleshooting

### 8.1 During the installation process, a device's address is not shown in the Unknown nodes section


Check the following in the given order:

1. Check if the device is connected to the mains supply (emergency luminaires: is the charge-indicator lit? IO-Box: is the green indicator lit?)
2. If the mains supply is connected: continue with no. 2
3. If the mains supply is not connected: connect the device to the mains supply
4. Check if the device is sending a wireless signal. Put the USB-Koordinator together with the Computer and the WirelessProfessional software next to the device. Check if the device's address is displayed on the **Network Information** tab.
5. If the device's address is displayed on the **Network Information** tab: continue with no. 3
6. If the device's address is not displayed on the **Network Information** tab: contact the distributor
7. Check if the device's address is displayed in the **Unknown nodes** section, when the USB-Koordinator together with the Computer and the WirelessProfessional software is run next to the device.
8. If the device's address is displayed in the **Unknown nodes** section: presumably the wireless connection with this device is broken, because the distance between devices at one or multiple positions is too large.
9. If the device's address is not displayed in the **Unknown nodes** section: the device was not recognized by the system. Manually add the device and register the device in the system. Afterwards delete the emergency luminaire from the system and from the **Unknown nodes** section. The device should now show up automatically in the **Unknown nodes** section.

### 8.2 There are Device invalid entries in the Unknown nodes section

The WirelessProfessional software reports invalid devices if it does not recognise the device's firmware version. This is typically the case when new devices with a later production date are added to an existing system. Contact the distributor to update the WirelessProfessional software.

### 8.3 After start-up of the WirelessProfessional software, the system stays in the Status is being updated state

The larger of the two time spans **Time to connection error** and **Time to connection error for IO-Boxes** determines the minimum time which the automatic test system displays the **Status is being updated** (colour symbol ) message at start-up. The values for **Time to connection error** and **Time to connection error for IO boxes** can be set on the **Installation/System** tab (section 5.12.4).

### 8.4 The facility manager's password is lost

The facility manager's password can be reset to **1111** by the installer or the distributor. The facility manager's password is reset on the **Installation/System** tab.

### 8.5 The installer's password is lost

The installer's password can be reset to **2222** by the distributor.

### 8.6 Luminaire sends no connection request / do not appear in the area of Unknown Nodes

Devices that are not automatically detected by the system can be added manually by the user (see Figure 59).

### 8.7 Exchange USB-Coordinator

1. Disconnect the USB coordinator from the PC by unplugging the USB coordinator from the USB cable.
2. In the software under Installation → System, click the Reconnect All Devices button (see Figure 76).
3. Exit the software. In the upper left of the software, under File, click Exit program and confirm the following message with OK (the USB cache will be deleted).
4. Restart the software.
5. Connect the new USB coordinator to the PC
6. Then connect to the software by selecting the serial port (see section 3.3).

**Note:** After connecting to the coordinator, Wireless Professional Software will automatically reassociate all devices by disassociating and then reassociating the devices one by one.

## 9 Technical data

Table 37: technical data\*

<b>Operation frequency</b>		865MHz – 868,6MHz
<b>Tuning range</b>		868MHz +/- 100kHz
<b>Modulation type</b>		GFSK
<b>Emission designation</b>		F2DCT (1% Duty Cycle)
<b>HF channeling</b>		868MHz +/- 50kHz
<b>Transmission bandwidth</b>		300kHz
<b>Transmission power</b>	<b>maximum</b>	10dBm (10mW)
	<b>average</b>	-10dBm (0,1mW)
<b>Indoor range</b>		30m (for luminaires in plastic housing, repeater and IO-boxes) 24m (for luminaires in metal housing)

\*For relevant standards and regulations, see Declaration of Conformity

## 10 Glossary

**automatic test system (ATS)**

automated test system that may be manually initiated, consisting of parts (such as timers, current detectors, light detectors, changeover switches) which, when connected together, make a system that can carry out the routine testing requirements of emergency lighting luminaires, and indicate the test results (EN 62034:2012)

**autonomy time**

Term used in the WirelessProfessional Software to describe the **rated duration of emergency operation**

**duration test**

test to check if the battery emergency power supply source supplies the system within the limits of rated duration of emergency operation (EN 62034:2012)

**emergency follow-up time**

time span during which the emergency luminaires stay turned on after the signal at the fire alarm input has become inactive

**emergency lighting**

lighting for use when the supply to the normal lighting fails; it includes emergency escape lighting, high-risk task-area lighting and standby lighting (CIE publication 17.4, EN 60598-2-22:1998 + A1:2003)

**emergency luminaire rated luminous flux**

lumen output as claimed by the luminaire manufacturer 60 s (0.25 s for high-risk task-area lighting luminaires) after failure of the normal supply, and continuously to the end of rated duration of operation (EN 60598-2-22:1998 + A1:2003)

**emergency mode**

state of a self-contained emergency luminaire that provides lighting when energized by its internal power source, the normal supply having failed (EN 60598-2-22:1998 + A1:2003)

**fire alarm**

IO-Box input configuration. If the signal at the fire alarm input is active, all switchable emergency luminaires are turned on. When the signal at the fire alarm input becomes inactive again, the emergency luminaires stay on for the emergency follow-up time and will only then be turned off.

**functional test**

test to check the integrity of the circuit and the correct operation of a emergency luminaire, a changeover device and a battery emergency power supply (EN 62034:2012)

**maintained emergency luminaire**

luminaire in which the illuminant is energized at all times when normal or emergency lighting is required (EN 60598-2-22:1998 + A1:2003)

**masking**

A function of the WirelessProfessional Software, that suppresses error messages from masked devices. Masked devices can be identified as being masked on the **Configure Groups** tab.

non-maintained emergency luminaire

luminaire in which the illuminant is in operation only when the supply to the normal lighting fails (EN 60598-2-22:1998 + A1:2003)

**normal mode**

state of a self-contained emergency luminaire that is ready to operate in emergency mode while the normal supply is on. In the case of a normal supply failure, the self-contained luminaire automatically changes over to the emergency mode (EN 60598-2-22:1998 + A1:2003)

**normal supply failure**

condition in which the normal lighting can no longer provide a minimum illuminance for emergency escape purposes and when the emergency lighting should become operative (EN 60598-2-22:1998 + A1:2003)

**rated duration of emergency operation**

time, as claimed by the manufacturer, that the rated emergency lumen output is provided (EN 60598-2-22:1998 + A1:2003). In the WirelessProfessional software referred to as "autonomy time".

**remote inhibiting mode**

state of a self-contained emergency luminaire which is inhibited from operating by a remote device while the normal supply is on and in case of a normal supply failure the luminaire does not change-over to emergency mode (EN 60598-2-22:1998 + A1:2003). The remote inhibiting mode is only allowed during shutdown periods. Only switchable emergency luminaires can be turned into remote inhibiting mode. If the emergency luminaire's wireless connection to the automatic test system is broken, the remote inhibiting mode is cancelled after 15 min. Emergency luminaires in remote inhibiting mode cannot be tested and also remain switched off if a fire alarm occurs.

**self-contained emergency luminaire**

luminaire providing maintained or non-maintained emergency lighting in which all the elements, such as the battery, the illuminant, the control unit and the test and monitoring facilities, where provided, are contained within the luminaire or adjacent to it (that is, within 1 m cable length) (EN 60598-2-22:1998 + A1:2003)

### 11 Revision history

WirelessProfessional – Setup and Operation		
Date	Software-Version / Revision	Comment/Important changes
<b>23rd October 2014</b>	1.2.0	Creation (based on German Version 1.2.0 as of 9th July 2014)
<b>10th December 2015</b>	1.3.0	Update. "Maintenance" and "Additional software" sections added.
<b>05th January 2018</b>	1.4.4	Changed to WirelessProfessional, corrections
<b>25th January 2018</b>	1.4.5	corrections
<b>19th June 2018</b>	1.4.6	Remote facilities
<b>06<sup>th</sup> June 2019</b>	1.4.7	WL Version 2.2, font

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### 13 Contact information

