

WebACM
for **Series 7**

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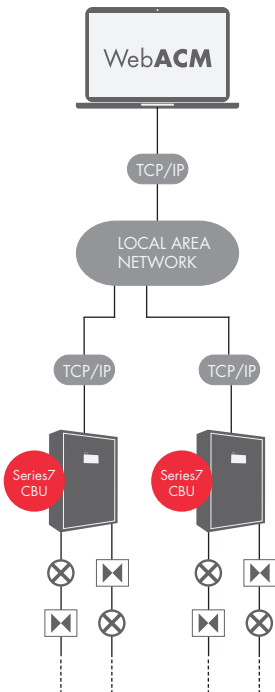
1. OVERVIEW

Teknoware Web Advanced Central Monitoring software (WebACM) is intended for controlling and monitoring Central Battery Units (CBUs) and emergency luminaires remotely. WebACM supports monitoring of up to 130 CBUs.

The software allows the user to:

- run luminaire and battery tests
- monitor battery voltages of the system
- monitor external and internal errors
- set layout maps and place CBUs and luminaires on the map

The software also provides information about faulty luminaries, executed tests, faults and so on. All the information from the system is automatically saved to a log file. Using the software is easy and intuitive, and does not require special skills.



1.1. Basic concepts

Emergency luminaire – a non-maintained luminaire meant for maintaining a required level of illumination during an emergency (such as a power failure).

Exit luminaire – a maintained luminaire meant for illuminating exit signs during both an emergency (such as a power failure) as well as during normal conditions

Categories – Buildings and Areas (see below).

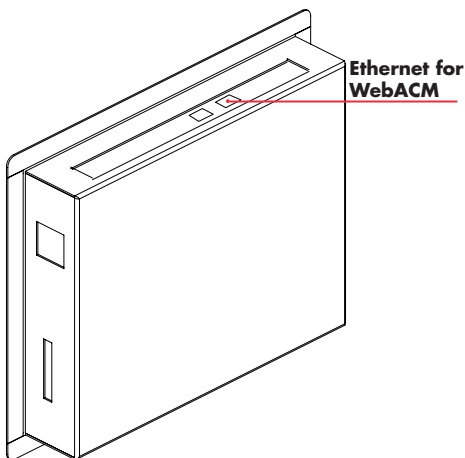
Building – a category in the software data tree, representing an entire building. A Building can contain several Areas. A building image can be set for each Building.

Area – a category in the software data tree representing a certain area of a building, such as a single floor. An area image, such as a layout plan, can be set for each Area.

CBU – Teknoware Series 7 Central Battery Unit

2. CBU AND NETWORK SETTINGS

First, make sure the CBU is installed according to the User's Guide provided with the CBU, and the Ethernet cable is connected:





Only a qualified electrician is allowed to open the central battery unit. Read the User's Guide for the CBU before any installation or maintenance tasks.

CBU: Device Settings

(On your Series 7 CBU: tap Settings > Network Settings)

Device settings

Name: CAR FACTORY Language: en

Model: TKT7520CP Device Number: 0

Command: EXECUTE

LC_IC: IC EthernetACM SerialACM

AutoReset at: 00 : 00

Version: 0.0.0
Build date: May 2 2023 10:47:38

SAVE

HOME DEVICES TEST SETTINGS 11:37
02 May 2023

Figure 1. CBU: Device Settings

From the device settings, make sure the “EthernetACM” is enabled. Set the desired CBU address to “Device number”. Device number can be any whole number starting from 1. Usually, if only one CBU is used, the address is 1. This address is used for identifying the CBU in the WebACM software. After making these changes to the settings, tap SAVE. If the CBU does not reboot automatically after Saving the settings, do so from the Debug settings (Settings > Debug). The communication will start within 5 minutes of the reboot.

CBU: Network Settings

(On your Series 7 CBU tap: Settings > Network Settings)

Network settings

IP address: 172.22.6.227 MAC:00:0C:29:2A:73:F1

Netmask: Load certificates

Gateway: Enable Cloud:

DNS-IP: Cloud Verbose:

DHCP:

SAVE CLOSE

HOME DEVICES TEST SETTINGS 11:39
02 May 2023

Figure 2. CBU: Network settings

The Network settings can be configured from this subpage. Make sure that each CBU has a unique IP address and Device Number. If the system includes more than one CBU, connect the CBUs to the network one by one and define a unique IP address for each of them before connecting the next one to the system. This is done to avoid overlapping IP addresses. The WebACM computer and the CBUs under its control must be on the same subnet. DHCP is not available for WebACM.

After making these changes to the settings, tap SAVE. If the CBU does not reboot automatically after Saving the settings, do so from the Debug settings (Settings > Debug).

NOTE!

Ask for the appropriate network configuration details from your network administrator. Typically the network settings are not changed after installation.

3. INSTALLATION

Requirements:

The software is compatible with 64-bit Windows 10 and 11 operating systems. Please note that while the system originally requires only a few megabytes of hard drive space for installation, the actual required drive space depends on the amount of luminaires, images and amount of logs. It is recommended that at least a few hundred megabytes of hard drive space is reserved for the software. Make sure to check occasionally that enough free space is available.

3.1. Installing the software

1. Log into your computer as administrator.
2. Disable all rest and power saving modes before installing WebACM.
3. Connect the WebACM USB drive to a USB port and open the USB drive root folder.
4. Run the installation wizard (WebACMx.exe). The program will guide you through the installation process. If you have a firewall in use, allow the network communication of the WebACM system.

3.2. Creating user names

1. Log in to your computer as administrator. Start the WebACM. Log in to the software with the username "Administrator".

NOTE!

When starting up the software for the first time, you must enter a new password for the user "Administrator". To do this, simply select a new password, and log in with it. Make sure you remember the password! The system will automatically save the selected password for "Administrator".

2. Go to SETTINGS sub window by clicking the SETTINGS icon on the right side of the Main window (see image below).

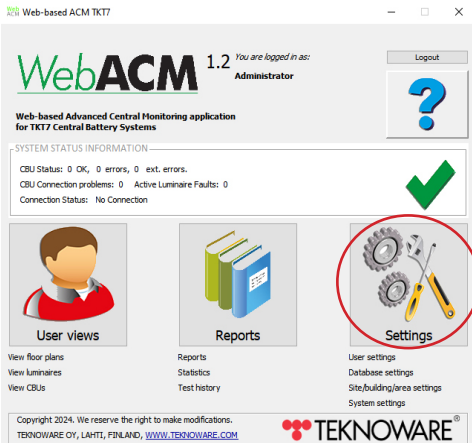


Figure 3. Main Window: SETTINGS

3. While in the SETTINGS window, go to the USER tab. To add users to the system, click the NEW USER button. ADD NEW USER window will open. Enter the user name and password, add an optional note about the user, and select the user level. The user levels are:

- Basic user: SETTINGS is disabled. Also, a Basic user is not allowed to: edit luminaire data (Notes) or write CBU settings. A Basic user is allowed to: view luminaire data, use the User views, and view test history.
- Medium user can (in addition to everything a Basic user can do) write CBU settings and start/stop tests.
- Admin user has unlimited rights to the system. This access level is used for setting up the system or editing settings.

NOTE!

*Make sure that your admin password is not lost.
If the password is lost, contact Teknoware's Technical Service.*

4. When closing the software, first log out, then close the software normally. After this, the WebACM process will remain running. To start the software again, double-click the software icon from the system tray (next to the clock and date in Windows taskbar). To close the software, right-click the icon and select Exit.

4. SETUP

NOTE!

Make sure that CBUs are connected and online during setup.

Process description:

1. Add CBUs (see “4.1. Hardware Tab” on page 10).
2. Get the luminaire configuration from the CBU, or create luminaire configuration manually (see “4.1. Hardware Tab” on page 10).

NOTE!

If you create the configuration manually, the configuration may be a mismatch with the CBU configuration. In this case external error indication may also mismatch between the WebACM software and CBU

3. Make modifications to luminaire configurations (if required)
(see “4.2. Configuration Tab” on page 11).
4. Set CBU settings (see “4.3. Changing CBU parameters and setting Scheduled Luminaire Tests” on page 13).
5. Set Luminaire Types and add Notes to Luminaires
(see “4.4. Setting the luminaire types and notes for the luminaires and circuits” on page 15).
6. Create a Data Tree Structure, and add images for Data Categories
(see “4.5. Structure Tab” on page 16).
7. Set up Buildings and Areas to the User View (see “4.6. Setting up the User View – Setting Buildings and Areas” on page 17).
8. Divide CBUs and luminaires to Data Categories, and place the Luminaires to Layout maps (see “4.7. Setting the CBUs and Luminaire into Areas” on page 20).
9. Adjust email reporting settings (see “4.8. Setting up Software settings and Email reporting” on page 21).

4.1. Hardware Tab

From the Hardware Tab you can add CBUs to the WebACM system, get the luminaire configuration for the CBUs, and Import/Export the WebACM database. To open the Hardware Tab:

1. Log in to the software as Administrator, and go to the SETTINGS window as described earlier.
2. While in the SETTINGS sub window, go to the HARDWARE tab.

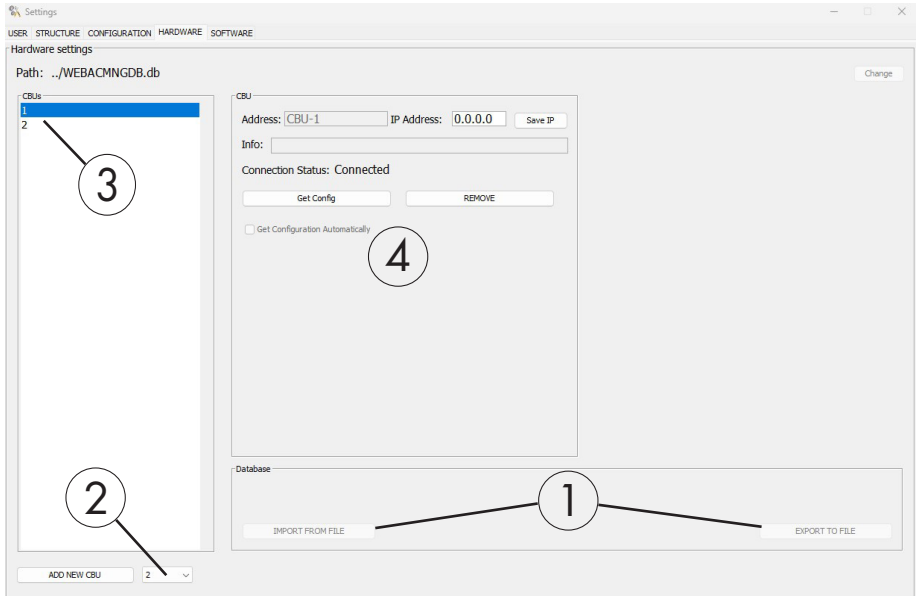


Figure 4. SETTINGS window, HARDWARE tab

Adding CBUs

NOTE!

For CBU device address and IP address, see “2. CBU and Network Settings for WebACM” on page 4

1. (No. 2 in Figure 4) Select the address of the CBU from the drop-down list, and click ADD NEW CBU.
2. Select the CBU from the CBU's list (No. 3 in Figure 4).
3. Type in the IP address of the CBU and click Save IP. (No. 4 in Figure 4).
4. Click the Get Config button to get the luminaire information from the selected CBU. Note that getting the luminaire configuration from the CBU will override the manually set luminaires (see "4.2. Configuration Tab" on page 11).
5. Check the Get Configuration Automatically -box in the CBU settings if you want the system to attempt to get the luminaire info and configuration data automatically after each luminaire test.
6. To remove a CBU, simply select a CBU from the CBU list, and click the REMOVE button from the CBU settings.
7. Database importing and exporting (No. 1 in Figure 4) are not active in WebACM version 1.2.
8. Close and re-open the software to update the CBU and luminaire data before moving on with the setup. To do this first close the software normally and then quit the software process by right-clicking the software icon from the system tray (next to the clock and date in Windows taskbar) and selecting Exit. Then, start the software.

4.2. Configuration Tab

From the Configuration Tab you can make luminaire configurations manually. Note that getting the luminaire configuration from the CBU will override the manually set luminaires.

To open the Configuration Tab:

1. Log in to the software as Administrator, and go to the SETTINGS window as described earlier.
2. While in the SETTINGS sub window, go to the CONFIGURATION tab.

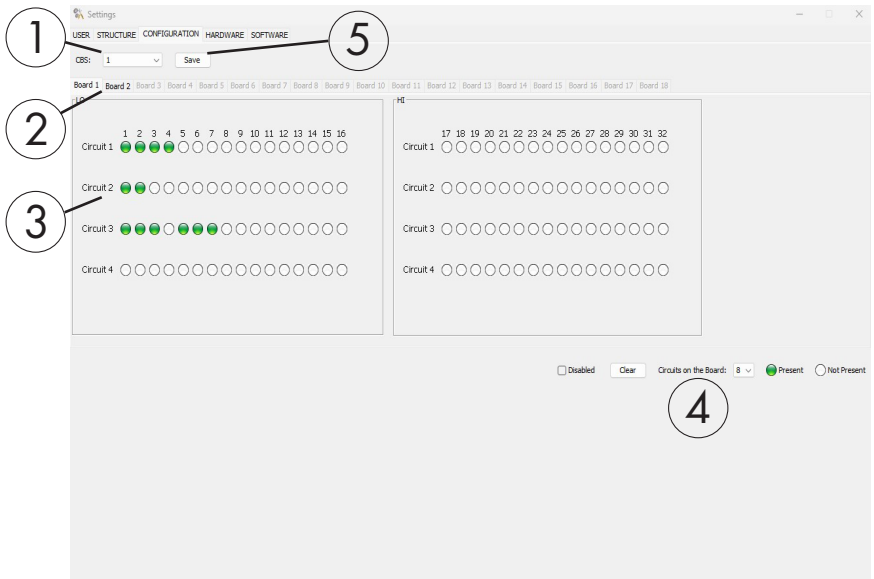


Figure 5. SETTINGS window, CONFIGURATION tab

Using the Configuration Tab

1. Select the CBS (=CBU) which you wish to modify the Luminaire information for (No. 1 in Figure 5). If the configuration for CBS 1 is empty, re-select CBS 1 from the list. This will update the configuration data.
2. Select a circuit board (No. 2 in Figure 5).
3. In the luminaire table (No. 3 in Figure 5) you can now see the luminaires that are present, and those that are not. Clicking a present luminaire (green dot) will mark it as not present, and vice versa. Set the luminaire data, and repeat process to all required CBU's and Boards.
4. For CBU's that do not have 18 boards, you can disable the absent boards by selecting the first absent board on a CBU, and selecting Disabled from the toolbar (No. 4 in the Figure 4).
5. Clicking Clear from the toolbar will change all luminaires from the displayed Board to Not Present.

- If there are parallel connections in the system, you can change the number of Circuits on a Board from the Circuits on the Board -drop down menu in the Toolbar.
- When the settings are done, click the Save button (No. 5 in Figure 5) to save the data.
- Close and re-open the software to update the CBU and luminaire data before moving on with the setup. To do this first close the software normally and then quit the software process by right-clicking the software icon from the system tray (next to the clock and date in Windows taskbar) and selecting Exit. Then, start the software.

4.3. Changing CBU parameters and setting Scheduled Luminaire Tests

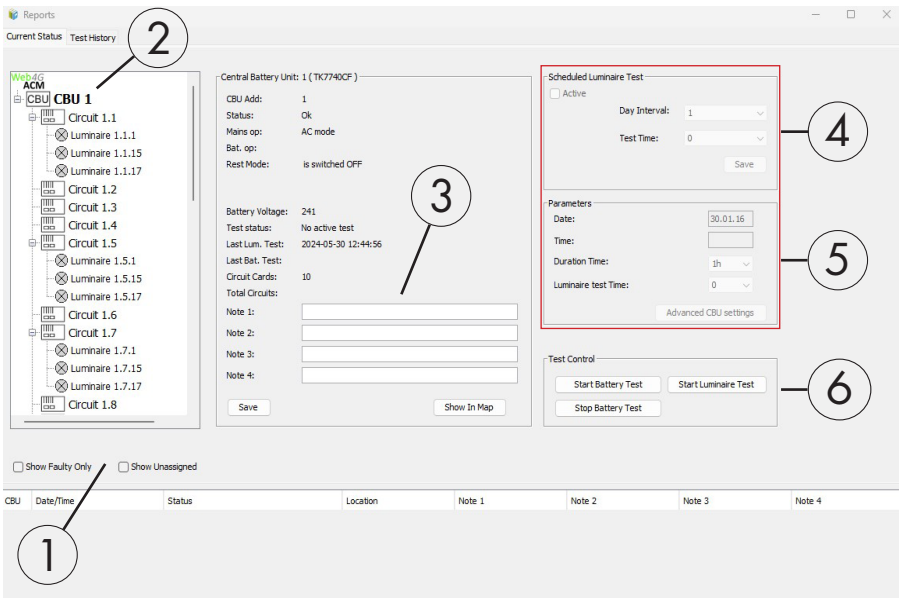


Figure 6. Reports Window - Current Status - CBUs

- Log in as Administrator, and click Reports.

2. You can filter the CBU list to show only the faulty CBUs, or to include the unassigned (=not set on a layout map) CBUs by checkin the corresponding boxes (No. 1 in Figure 6).
3. Select a CBU from the CBU list (No. 2 in Figure 6). The CBU status is now displayed on the main view of the window.
4. You can now add Notes for the selected CBU, by simply typing in the notes, and clicking the SAVE button (No. 3 in Figure 6).
5. Please note, that Luminaire Test Scheduling and Parameters are disabled from the WebACM 1.2 (No 4 and 5 in Figure 6). The tests can be scheduled from the CBU's user interface. See the User's Guide for the CBU for details.
6. To start a battery or luminaire test, click the corresponding button (No 6 in Figure 6).
7. Close and re-open the software to update the CBU and luminaire data before moving on with the setup. To do this first close the software normally and then quit the software process by right-clicking the software icon from the system tray (next to the clock and date in Windows taskbar) and selecting Exit. Then, start the software.

NOTE!

Make sure the situation in the building is suitable for running tests. During luminaire tests, the luminaires may flicker. During battery test, the luminaires are switched on. Also reserve time for the batteries to recharge after a battery test to reach normal operation time.

4.4. Setting the luminaire types and notes for the luminaires and circuits

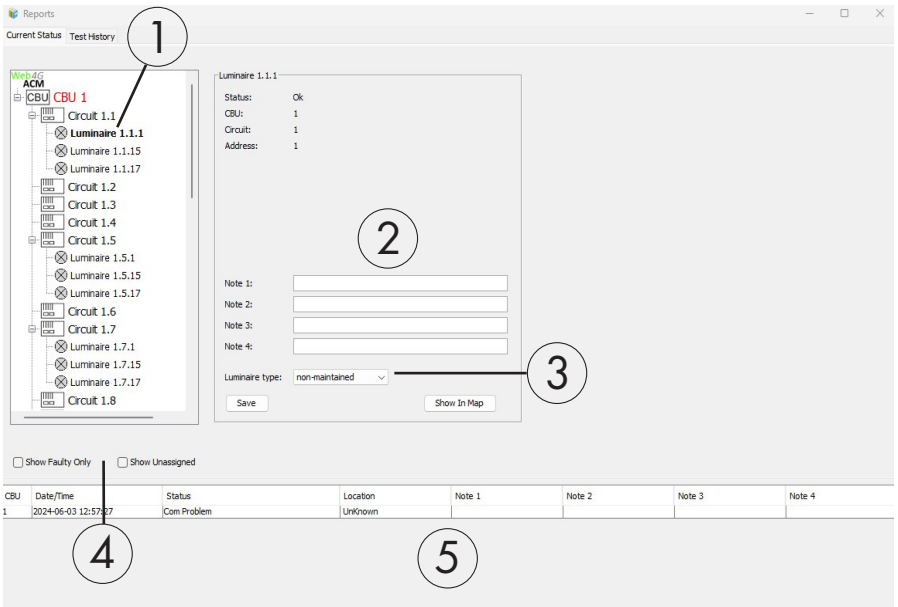


Figure 7. Reports Window – Setting luminaire type and notes

To set luminaire type and notes

1. Log in as Administrator, and click Reports.
2. Select the Luminaire to which you wish to add type and/or notes from the data tree (No. 1 in Figure 7). You can filter the list by displaying faulty and/or unassigned luminaires by selecting the corresponding options from the filters (No. 4 in Figure 7).
3. Add notes (No. 2 in Figure 7) simply by typing them into the text fields, and select the luminaire type from the drop down list (No. 3 in Figure 7). To save these changes, click Save. By clicking the Show on Map button, the software will open the Users View window, and display the selected luminaire on the map view (if said luminaire is set on a layout map).

4. To add notes to circuits, simply choose a circuit from the data tree instead of a luminaire, and add notes as described above.
5. Close and re-open the software to update the CBU and luminaire data before moving on with the setup. To do this first close the software normally and then quit the software process by right-clicking the software icon from the system tray (next to the clock and date in Windows taskbar) and selecting Exit. Then, start the software.

4.5. Structure Tab

From the Structure Tab you can create a categorized data structure, and add images and layout maps to the data categories. This way you can divide the CBUs and luminaires to several Buildings, and furthermore to specific Areas in the Buildings (see “4.6. Setting up the User View – Setting Buildings and Areas” on page 17).

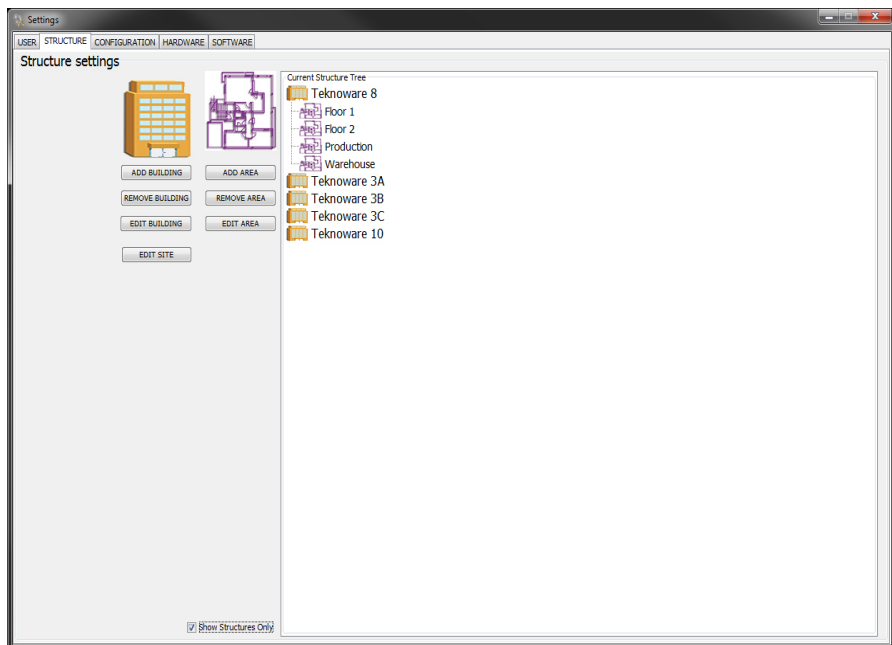


Figure 8. SETTINGS window, STRUCTURE tab

To create a Data Structure

1. While logged in as Administrator, go to the SETTINGS window as described earlier. Select the STRUCTURE tab.
2. Click EDIT SITE, and choose a Site image for the Site, e.g. an aerial photo.
3. Buildings are the main category, so create them first by clicking the corresponding button. Then, create the Area categories, and define the Buildings under which the Areas are located.
4. An image can be added for each category (buttons: Building Image and Area Plan). Supported image formats are .jpg, .png, .gif and .tiff.

NOTE!

While not mandatory, it is highly recommended that a layout image is added to each AREA.

5. The images and other information can be removed or updated by clicking the EDIT button under the categories.
6. The created categories can be removed by clicking the REMOVE button under each category. Removing a root category will remove all subcategories!
7. In the Figure 8 there is an example of the Teknoware factory in Lahti, Finland, divided into simple categories. The entire Site is divided into 5 buildings. The Teknoware 8 building, which is clicked open in the image, is divided into 4 Areas: 2 floors of the main building, and 2 sections of the production hall (production, warehouse). See the next chapter to learn how these categories can be set for easy access to any CBU or luminaire in the User View.

4.6. Setting up the User View – Setting Buildings and Areas

Before dividing the CBUs and Luminaires into the Areas, you should set up the Categories for easier access. By carefully setting the Buildings and Areas on the category images you can make the WebACM easy, fast and intuitive to use.

1. First, make sure that you have added all category images you wish to use in the Structure Tab. The more images are used, the easier the system is to use in the future.

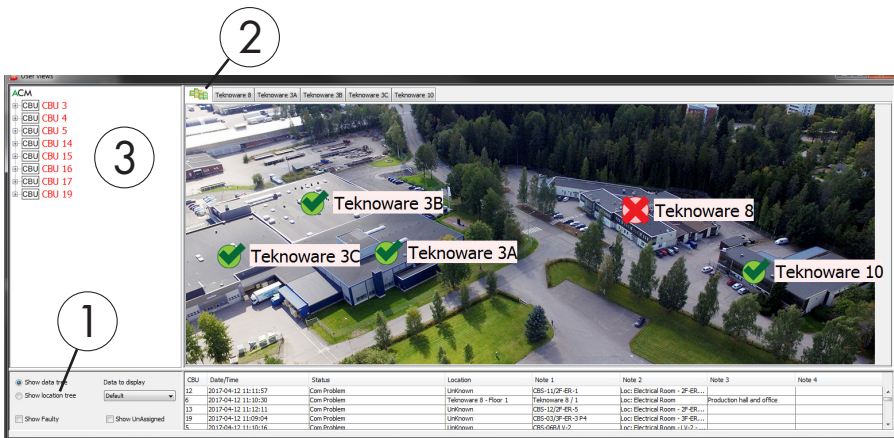


Figure 9. USER VIEWS – Setting up categories – Buildings

2. Start by checking the “Show location tree” (No. 1 in Figure 9). Make sure you are on the Site-level of the categories (No. 2 in Figure 9).
3. The Site image is displayed on the main display. To set the Buildings in the Site, right click a Building name on list in the left side of the window (No. 3 in Figure 9), and choose Add on Map. Then, left click the Site image on the spot you wish to add the Building icon to. In the Figure 9, there is an aerial view of the Teknoware factory site, to which all the Buildings are set accordingly to their physical location.

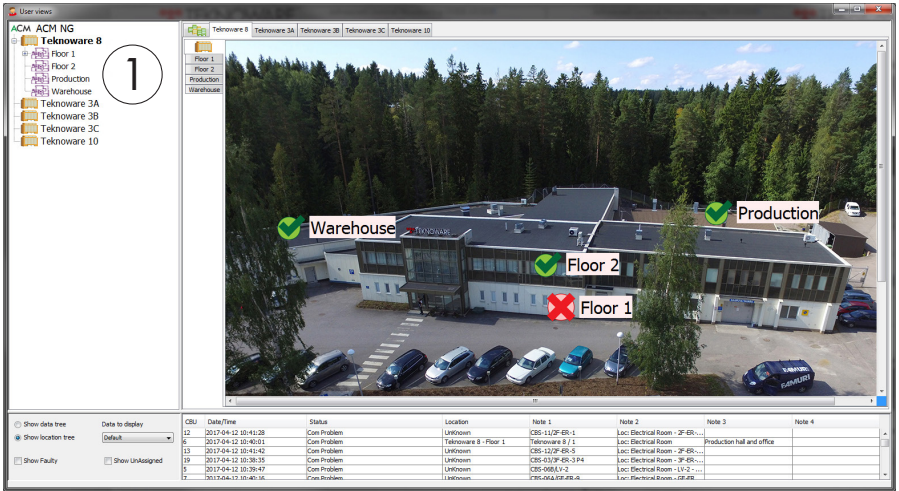


Figure 10. USER VIEWS – Setting up categories – Areas

4. Now, choose a Building (by clicking the Building icon on the image or from the tabs above the image). In Figure 10, building “Teknoware 8” is selected. Then, from the leftside data tree (No. 1 in Figure 10), right click the Area you wish to add to the Building Image, and select Add to map. Then left click the image on the spot, you wish to add the Area to. In Figure 10 above, building “Teknoware 8” is divided into four Areas, which are set on the Building Image according to their physical location.
5. Repeat the process until all Buildings and Areas are set correctly.

4.7. Setting the CBUs and Luminaire into Areas

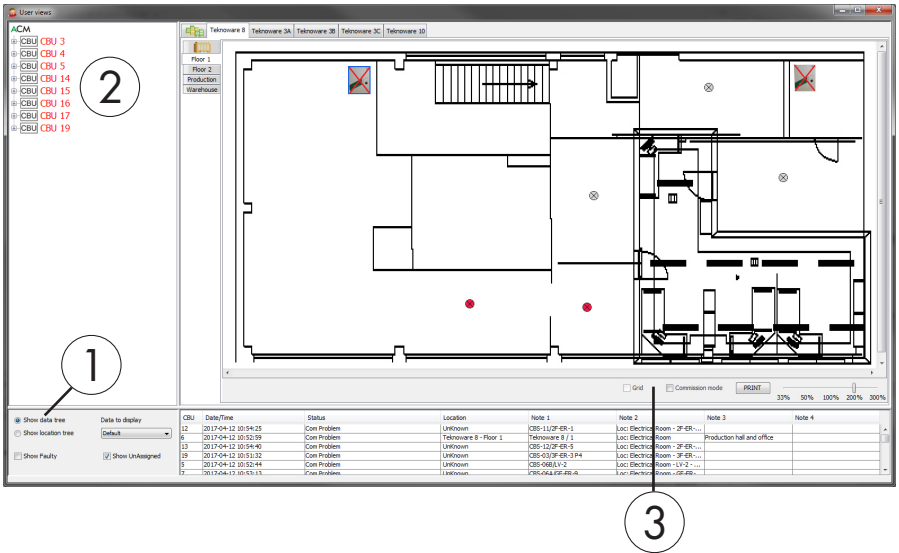


Figure 11. USER VIEWS window

1. Make sure that the Show data tree is selected from the display options (No. 1 in Figure 11). Start by selecting the correct Building under which the correct Area is. Then, select the correct Area. The Area Plan image is displayed.
2. Select the luminaire or CBU you wish to add to the layout map from the data tree (No. 2 in Figure 11), right-click the luminaire/CBU, and select Add to Map. Then, left click the layout map on the spot you wish to add this CBU or luminaire to. The CBU/luminaire icon is now displayed on the map. If you wish to move the CBU/luminaire, select the Commission mode on the map options (No. 3 in Figure 11), click the icon you wish to move, and click a new location). To add a grid to assist device placement on the image select Grid. Repeat the procedure until all the CBUs and Luminaires are in their right places.
3. Selecting Show Unassigned from the display options will hide all assigned luminaires.

- Note that you can select the information field to be displayed for each luminaire from the display options. There's also a selection to display faulty luminaires.

4.8. Setting up Software settings and Email reporting

The screenshot shows a web-based settings interface. At the top, there's a 'Settings' header with a gear icon. Below it are navigation tabs: 'USER', 'STRUCTURE', 'CONFIGURATION', 'HARDWARE', and 'SOFTWARE'. The 'SOFTWARE' tab is selected. The main heading is 'Software settings'. On the left side, there are five 'E-MAIL' input fields, each containing a placeholder email address (e.g., NAME1@MAIL.XX). Below these fields are two buttons: 'TEST' and 'SAVE'. On the right side, there are five rows of settings, one for each email address. Each row contains a 'Faults' checkbox, a 'Reports' checkbox, and a dropdown menu for the time interval. The intervals are: 1 day, 4 days, 1 week, 1 day, and 3 days.

Figure 12. Email settings

- While logged in as Administrator, click Settings and select the SOFTWARE tab.
- Add 1–5 email addresses to which you want the system to send reports to. To send a test email report for the set addresses, click the TEST button.
- Select the options for the email reporting:
 - Faults: sends an email report if there are faults present in the system
 - Reports: sends a full report according to the time interval
 - Time interval: defines how often the defined report is sent.
- Click SAVE to save the settings.

5. USING THE SOFTWARE

5.1. Locating faulty CBU/Luminaire

If any warnings are present in the WebACM system, the system will report them according to previously made settings. A warning will also generate a warning symbol (a red X) on the Main Display of the software for easy visual inspection. If an error is present, locating the CBU/Luminaire in question is easy via the User View. To check the warning:

1. Click User Views.

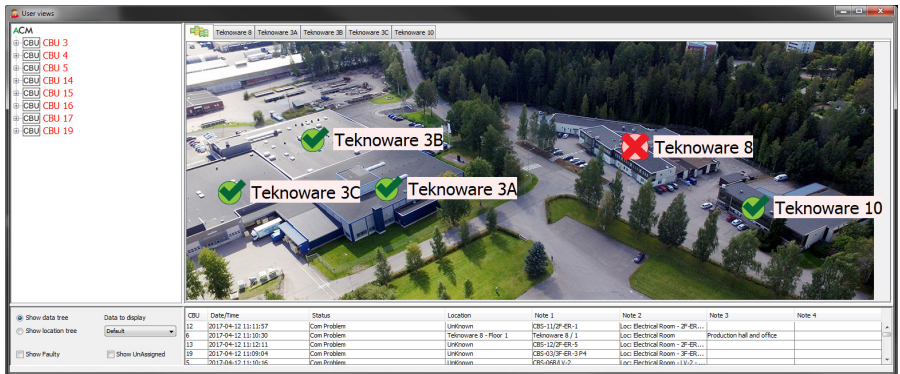


Figure 13. USER VIEWS – Warning present

2. In the Figure 12 above, there is a faulty luminaire or CBU in Building Teknoware 8. The Building is marked with a red X. Simply click the icon to open the Building. Then, check which Area has the red X on the icon, and click that. On the Area view, any faulty Luminaire or CBU will be marked accordingly with red icon.

Web Advanced Central Monitoring 1.2 USER'S GUIDE
VOT131, Rev1.0 - 18.6.2024



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