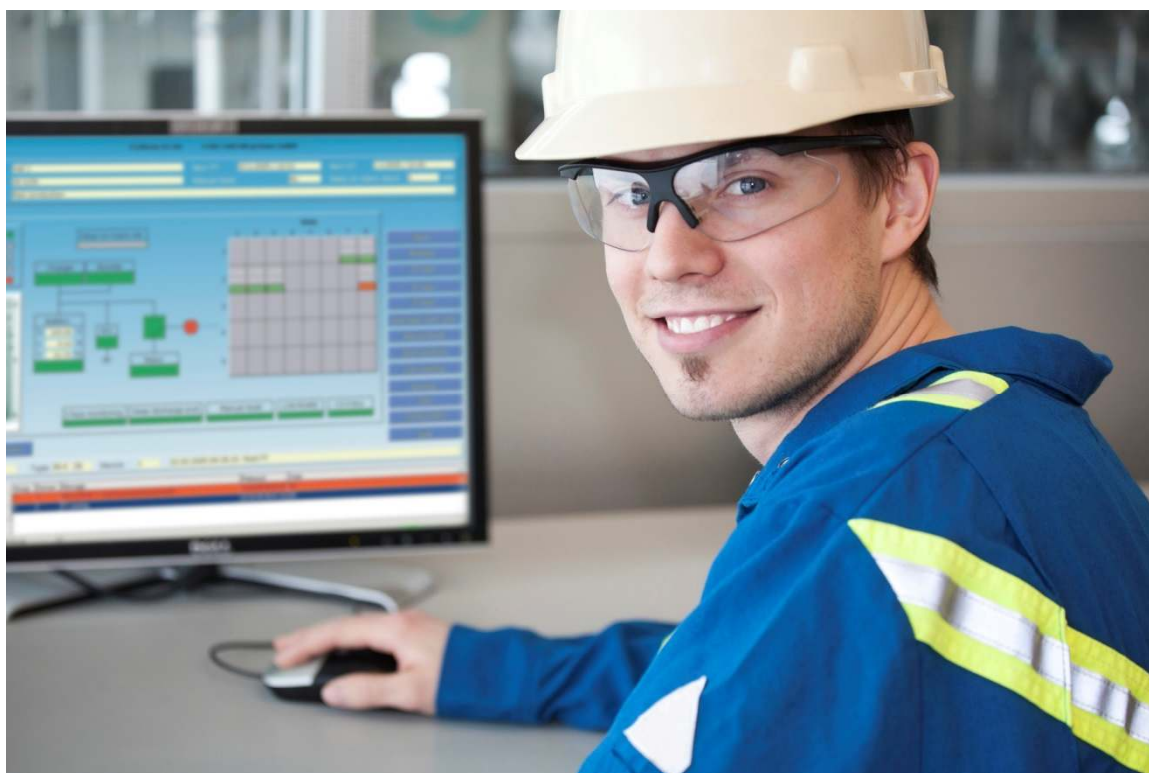


Installation and operating instructions
Visualisation and monitoring software
CGVision and CEAG OPC server

For the monitoring and control of
CEAG emergency lighting systems

CGVision ab V6.30

40071347386 (M)



Chapter directory

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Section 1

Introduction and system requirements

1.1 Introduction

These Rev.M installation instructions with complete descriptions of functions apply to CGVision from version 5.10 !
with use of a CGVision version older than V5.03
not all functions described are available.

General description of CGVision:

CGVision is a modern visualisation software for complete control and monitoring of CEAG emergency lighting systems from one PC workstation.

The following CEAG emergency lighting systems can be connected to CGVision:

- ZB-S
- AT-S+
- LP-STAR
- CG2000
- CGLine+
- CGLine
- ZB96
- GVL 24.1 / CG48
- ZVL 220
- External devices via the I/O-ethernetmodule or F3 interface, as digital I/O module via zero-potential relay contacts or digital inputs

CGVision can control and visualise 15 groups with max. 32 devices per group, and up to 480 group battery systems or central battery systems.

However a maximum of 8 EGA lines per EGA device family can be connected to CGVision (ZVL220/GVL24.1/CG48/Euro ZB.1/ZB96), and a maximum of 8 CGLine PC interfaces, each with a maximum of 400 CGLine single battery luminaires, meaning a total of 3,200 single battery luminaires per CGVision.

Within a device group, only devices of one type (e.g. ZB96) can be visualised, mixed operation of all different device groups in CGVision is possible however.

Features:

- Max. 15 device groups with max. 32 devices each, corresponding to up to 480 devices
- Complete visualisation and control
- Automatic function tests and continuous operation tests can be set for each group
- Timer control (2 timers) possible – not applicable to ZVL220
- Convenient layout display (optional) of luminaires and systems possible (in dwg/dxf format to AutoCAD 2015)
- Comprehensive inspection book per device group with varied functions
- Clear status display of systems with explorer structure possible
- Integral e-mail function, can be specifically configured for each system group
- Convenient, diverse printing functions

1.2 Important instructions about cybersecurity for using the CGVision in Ethernet networks

If the CGVision is used in an Ethernet communications network, it is important to prevent unauthorised access, for example, through hacker attacks. The security of the CGVision ultimately depends on operator settings, e.g. high-quality passwords and the network environment in which the CGVision software operates. An unsecure network environment facilitates unauthorised access by external parties. Here is important information on how to protect the CGVision and make it highly secure against unauthorised access.

Settings of the CGVision

Password protection:

Password protection is extremely important to prevent unauthorised and unwanted access by external parties. Certain rules must be therefore followed when setting a password:

- The password should be at least six characters long; the longer the better. It should contain upper and lower case characters and special characters and numbers (?!%+...).
- Do not use the names of family members, pets, your best friends, favourite stars or their birthdays or similar setups.
- Passwords should not be listed in dictionaries if possible.
- Passwords should not contain common patterns or repeated patterns or keyboard samples, e.g. qwertz or abcd1234 and so on.
- Adding simple numbers at the end of a password or a special character e.g. \$! ? #, at the start or end of an otherwise simple password is also not recommended.

The CG-S web module requests that the user sets a new password at the first logon to replace the default password. Failure to do so facilitates hacking enormously. When setting a new password, the password quality is shown with colour codes for assistance.

Use in a network, e.g. intranet

General instructions to managed network hardware, e.g. routers, switches etc.

- Keep your firmware up to date!
- Change the default password of the device!
- When configuring the router, disconnect the device from the network!
- Set up a firewall with MAC address filtering!
- Activate DDoS protection (Distributed Denial of Service)
- Block unneeded ports and protocols
- Deactivate the unused features of your router!
- Deactivate remote access to your router!

Further recommendations and best practices are listed in the EATON whitepaper "Cybersecurity considerations for electrical distribution systems" available via a search engine with the search key word „**WP152002EN**“ for download as PDF file.

1.3 System requirements for CGVision

Hardware:

- Min. 2GHz Processor
- Min. 1GB RAM (recommended 3GB on 32Bit, or 8 GB on 64Bit Windows)
- Graphic card with min. 128 MB RAM dedicated Graphic memory
- 10 GB free hard drive disk
- CD-ROM drive
- 3 x free USB-Port (CG-S/USB-Interface (Option)/ USB-Dongle / Printer)

Operating system: (unten stehende Hinweise beachten!)

- WIN7 (32 bzw. 64 Bit)
- WIN 10
- WIN Server 2012

1.4 Important notes before installation!

Please note the following important information before installation:

- CGVision requires full Admin rights for the installation! For the operation are Write/Read rights to the Windows registry necessary. See section 1.4.1
- CGVision requires Microsoft .NET Framework 3.5. See section 1.4.2
- Settings of the UAC (User Account Control). See section 1.4.3
- A typical Server/Client operation on a Windows Server operating system is not possible. See section 1.4.4
- A parallel operation of a CGVision and ZB-S in Multi-Master-Mode (substation setup) is not allowed. The Multi-Master-Mode must be deactivated before the commissioning of CGVision. See manual ZB-S.

1.4.1 Write- and Read access on Windows Registry for CGVision

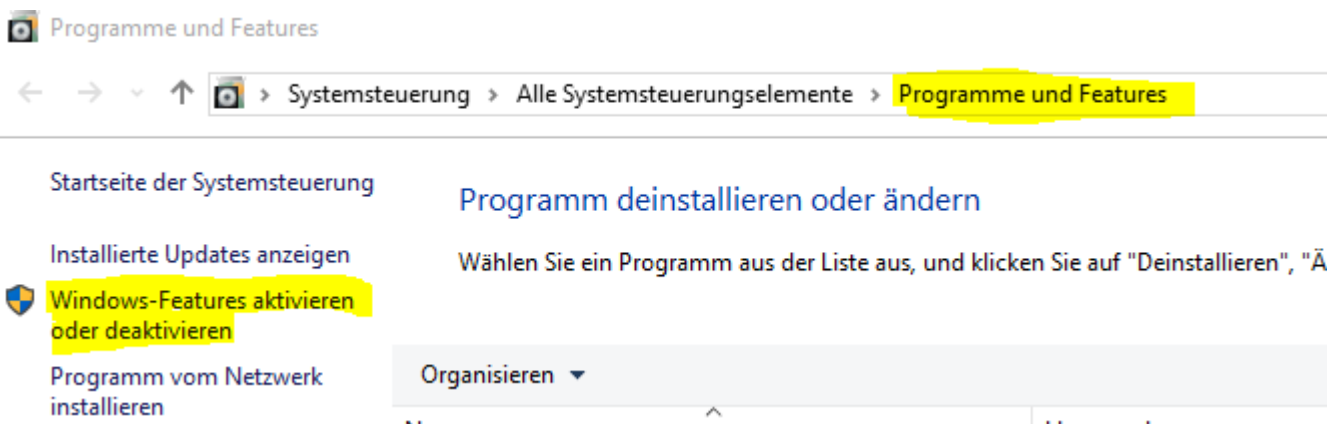
It is recommended to use CGVision Software on a Windows account with full Admin rights, because CGVision needs write and read access to the Windows registry. If full Admin rights are not possible, following Write and Read rights on the Windows registry must be fulfilled:

```
\registry\machine\software\Gesyttec GmbH\ElonOPC\ElonOCX\Settings[1 5 7 11 17];  
\registry\machine\software\Gesyttec GmbH\ElonOPC\ElonOPC\Settings[1 5 7 11 17];  
\registry\machine\software\classes\TypeLib\{118921D1-0703-11D5-962A-00A024AEBA80}\1.0\win32[1 5 7 11 17];  
\registry\machine\software\classes\TypeLib\{118921D1-0703-11D5-962A-01B024AEBA80}\1.0\win32[1 5 7 11 17];  
\registry\machine\software\classes\TypeLib\{118921D1-0703-11D5-962A-0FEE24AEBA80}\1.0\win32[1 5 7 11 17];  
\registry\machine\software\classes\TypeLib\{118921D1-0703-11D5-962A-99A024AE8885}\1.0\win32[1 5 7 11 17];  
\registry\machine\software\classes\TypeLib\{118921D1-0703-11D5-962A-66A024AE8885}\1.0\win32[1 5 7 11 17];
```

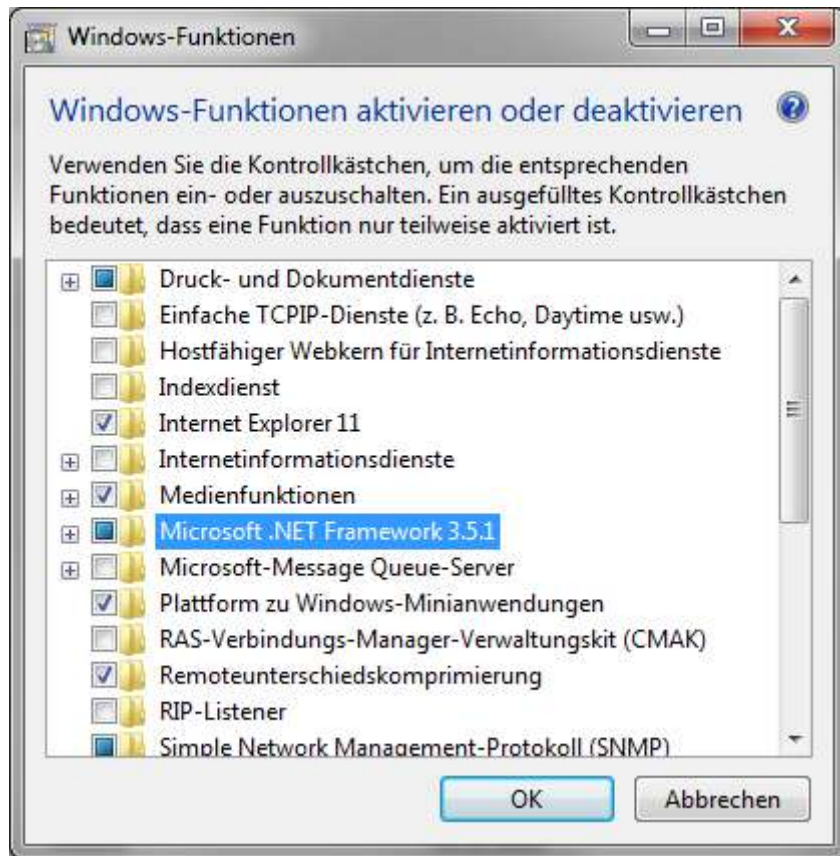
The CGVision CD contains a batch file (.bat), which automatically sets registry entries in Windows by double-clicking on "SetCGVisionRegistry.bat". The batch file is located on the CD-ROM in the folder "Tools / Registry"

1.4.2 Microsoft .NET Framework 3.5

The operation of CGVision requires .NET Framework 3.5. If a corresponding error message occurs during the installation of CGVision, .NET Framework 3.5 must be activated or installed. To do this, go to the "Programs and Features" control panel in the "Activate or deactivate Windows functions" menu:



In the following menu, Microsoft .NET Framework 3.5 must be activated :



If necessary, files are downloaded online or the Windows disk must be inserted. After completion, the PC must be restarted.

1.4.3 Windows UAC (User Account Control)

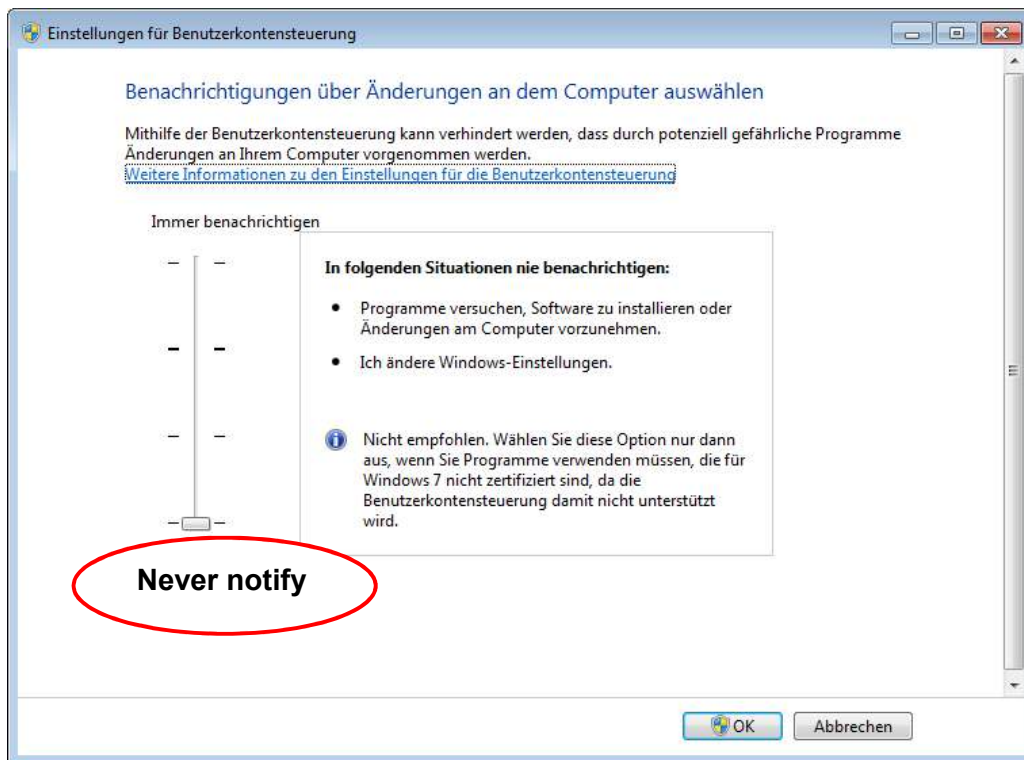
Windows 7:

When using WIN 7 operating systems is essential the installation of CGVision to disable the user account control!

Method:

Control panel → User account control → Change settings of the user account control:

Slider must be at the bottom of "Never notify"!

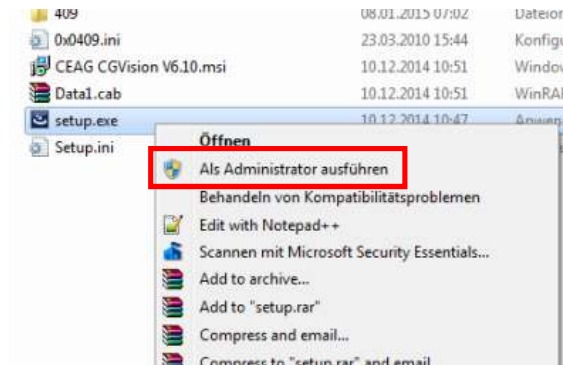


Note: If for security reasons, deactivation of the user account control is not desired, the program must always be executed as administrator, as with WIN10. (Setting see next page). Please note that when starting CGVision there is always a user account control query, which must be confirmed manually.

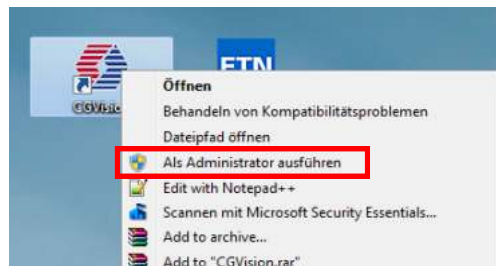
Windows 10 and Win Server 2012:

Under WIN10 and WIN Server 2012, the user account control can not be change. Here it is necessary to install and start the CGVision with Admin rights:

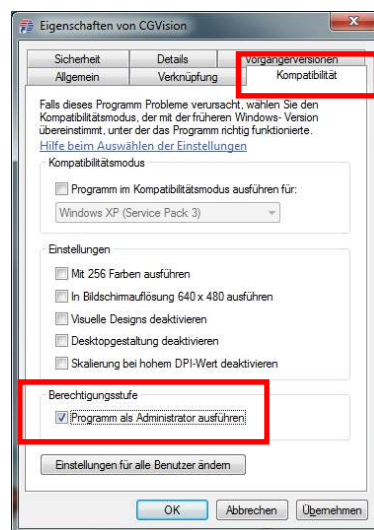
1. Installation via right mouse click on „Setup.exe“, → Execute as administrator



2. Start of the CGVision via Desktop-shortcut with right mouse click „Execute as administrator“:



3. It is recommended to have the function run automatically each time it is started. To do this, right mouse click on the CGVision Desktop shortcut → Properties In the Compatibility tab, you can now choose Program as Administrator. Be activated so that the CGVision is started as an administrator every time it is started.



Please note that after starting CGVision there is always a user account control query, which must be confirmed manually!

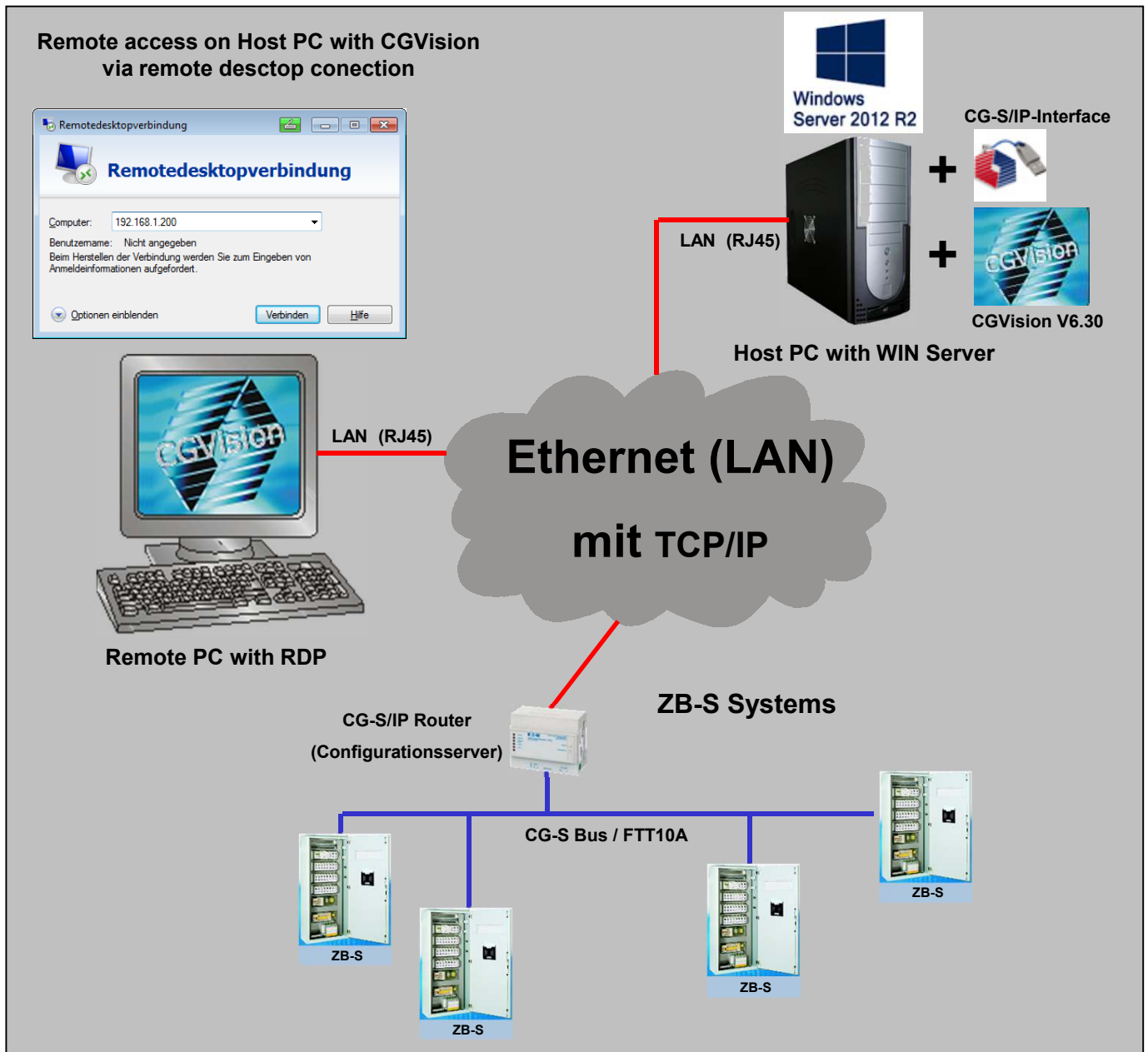
1.4.4 Client/Server operation on WIN Server operating systems

A typical client / server operation of CGVision on Windows Server systems like Windows Server 2012 or 2016 is not possible!

→ CGVision can not be started as service!

The installation on a windows server operating system must have a local Administrator account. **Remote access through Remote Desktop Connection (RDP) must be done by the the same Administrator account!** Access via another user account would be start a new instance of CGVision so that the CGVision appears empty without devices

Schematic: Remote access via remote desktop connection to remote Windows Server operating system :





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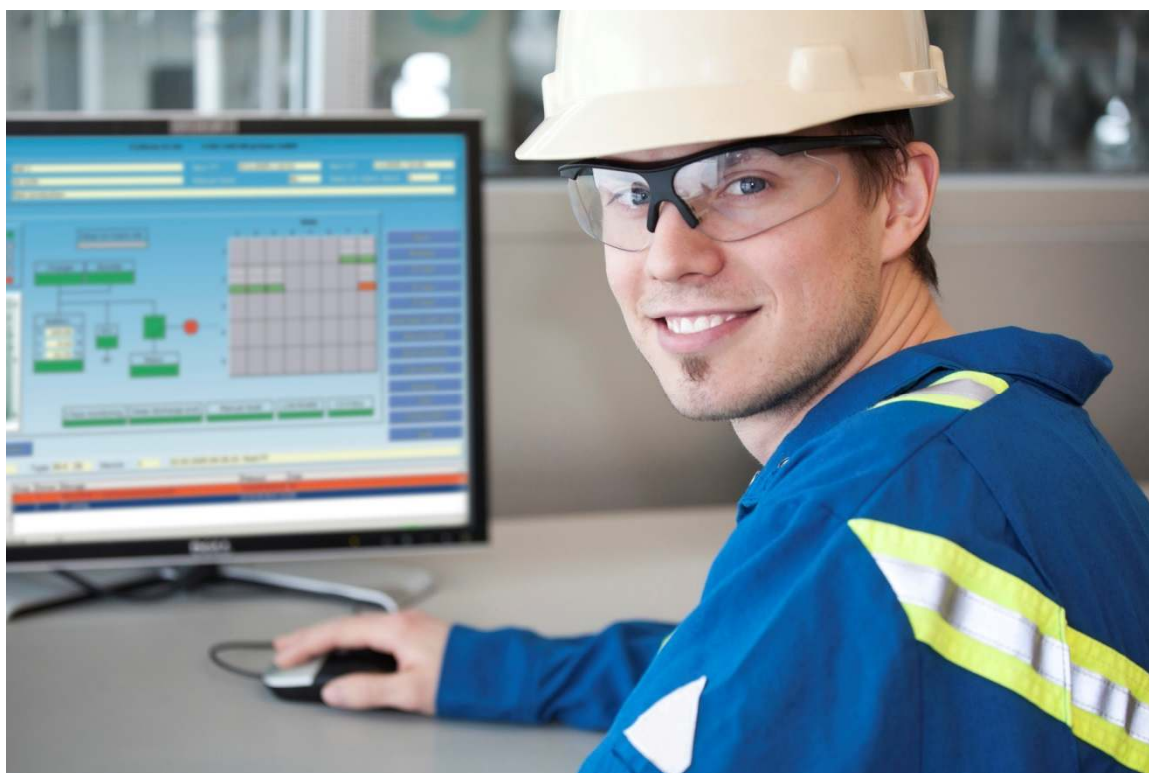
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-Technical details subject to alteration-

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Section 2
Installation instructions

2 Installation instructions

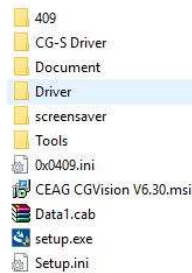
Important: read these instructions carefully before proceeding with the installation.
Please note the instructions in chapter 1 – Introduction and system requirements

2.1 Complete installation

It is recommended to install CGVision and all available OPC servers even when these are not required at the time of installation. The OPC servers only occupy low hard disk capacity and with newly added emergency lighting systems can be rapidly activated without additional installation effort and without having to be subsequently installed.

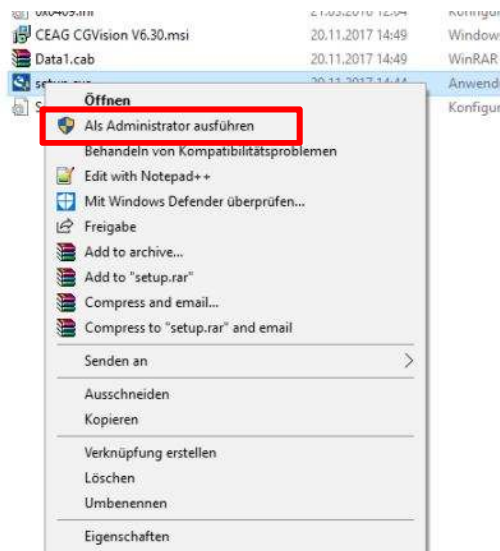
Installation of CGVision and OPC servers:

After inserting the installation CD, following files in explore appears:



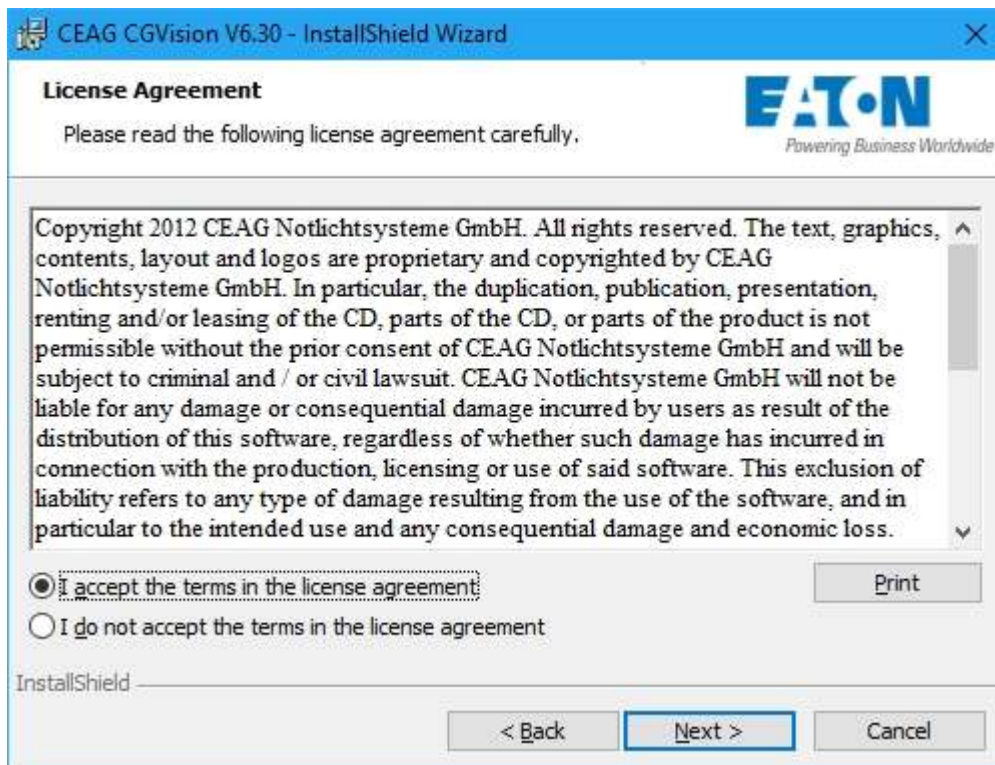
The installation must be proceed as Administrator!

For this please click with right mouse button on „setup.exe“ in the context menu on „Execute as administrator“

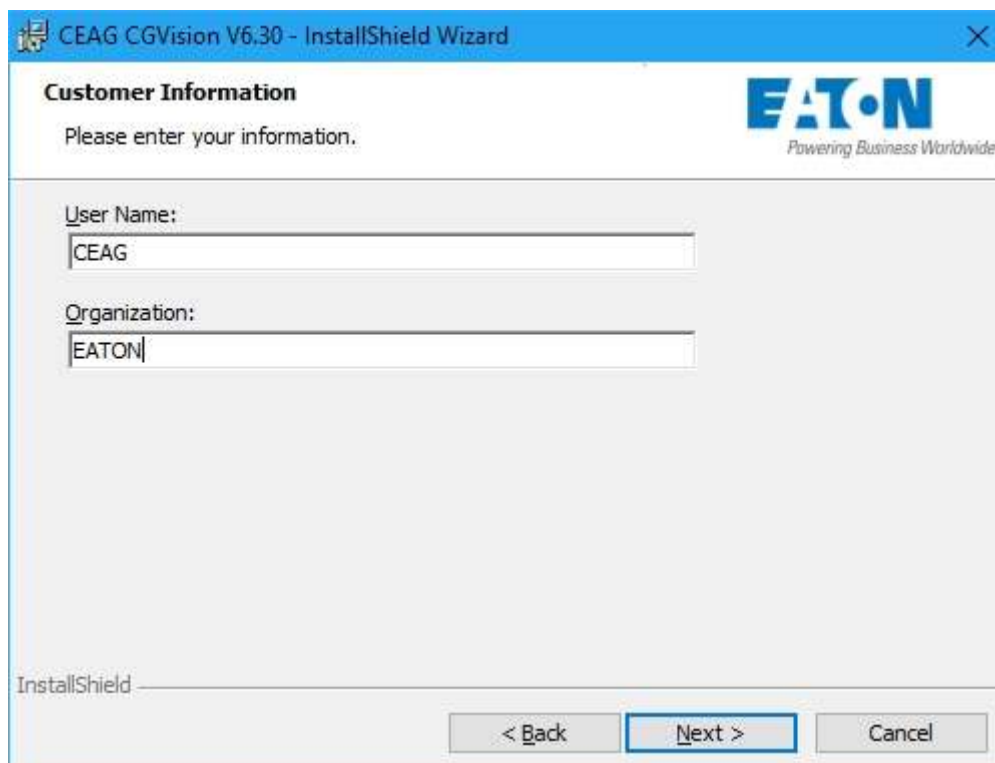


The installation assistant appears with specification of the current CGVision version (e.g. CGVision 6.30). Continue with 'Next'.

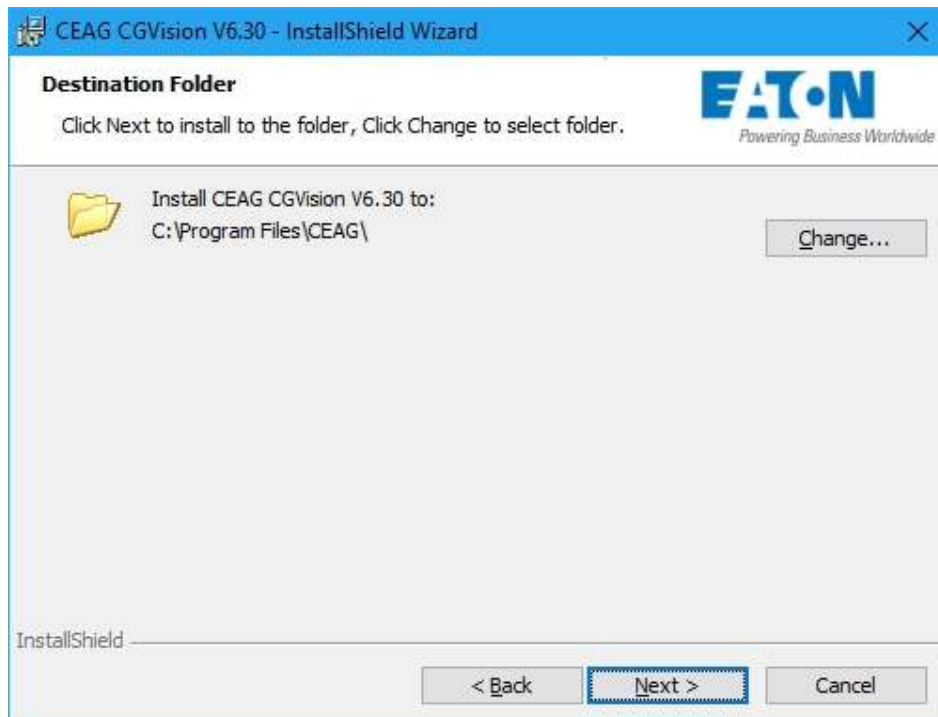
A licence agreement appears for use of the CGVision software in English and German. Please read the licence agreement carefully. If you accept the licence agreement, click on 'I accept the terms in the licence agreement' and then click on 'Next'.
Note: the 'Print' button enables the licence agreement to be printed out for easier reading.



The following dialogue enables you to enter the user and organisation. Continue with 'Next'.



In the next screen the destination folder for installation can be specified. We recommend maintaining the default path. Continue with 'Next'.

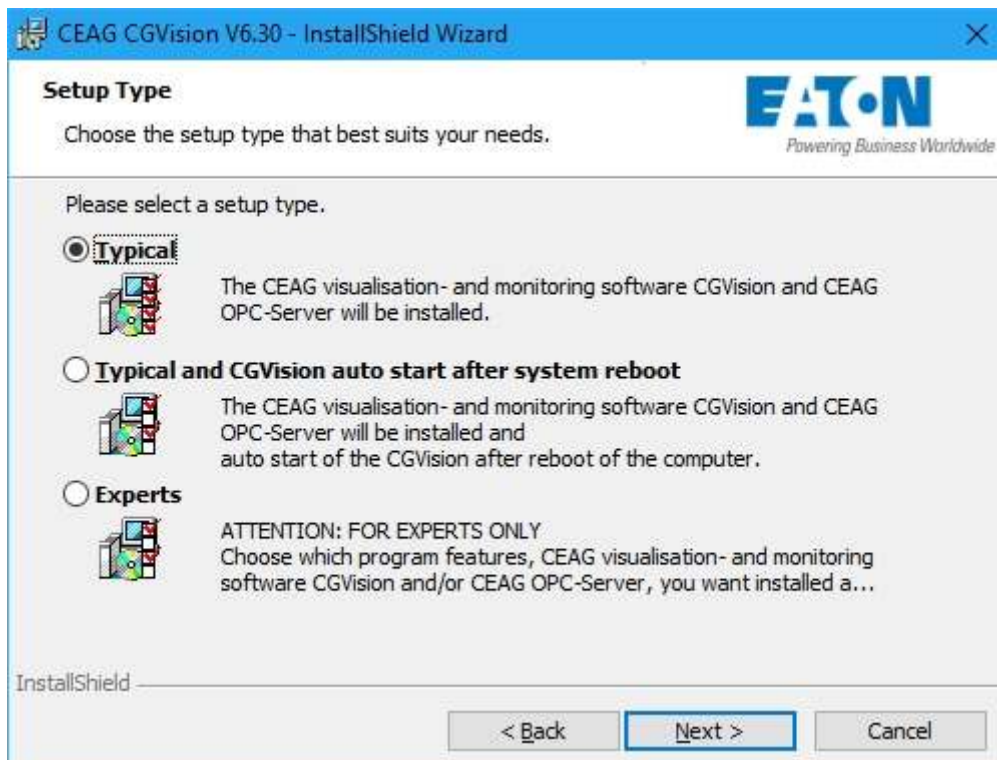


The next step is selection of the type of installation:

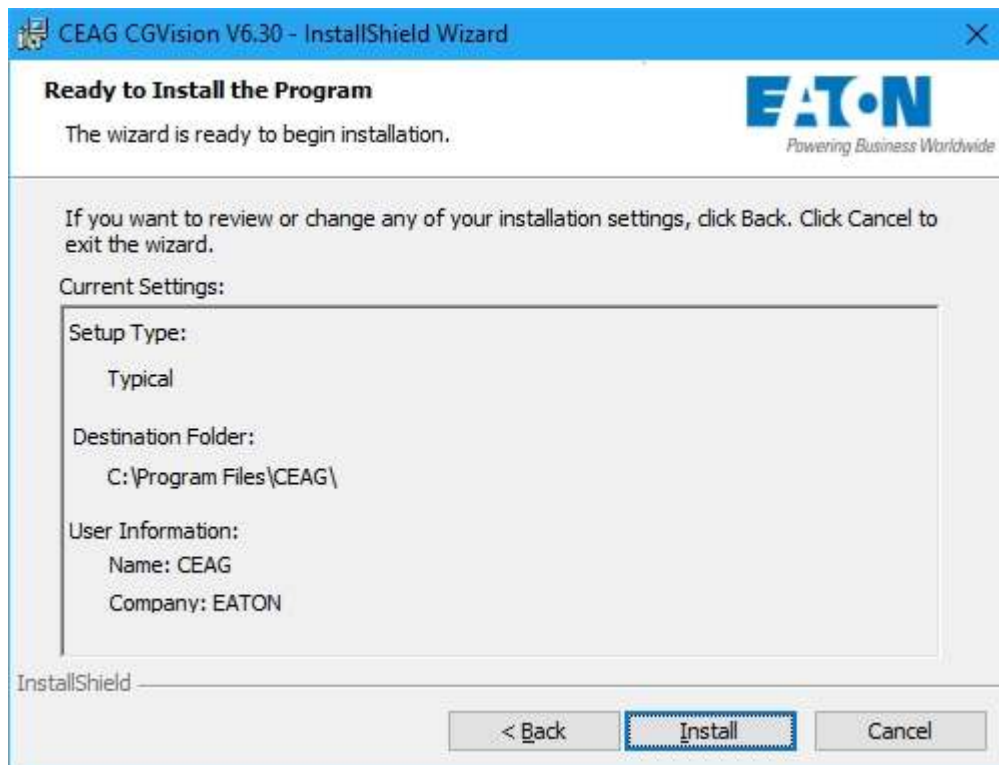
'Typical' means complete installation of CGVision and all OPC servers (recommended).

'Typical and...auto start...' is as with typical, but with an autostart function after every new start of the PC.

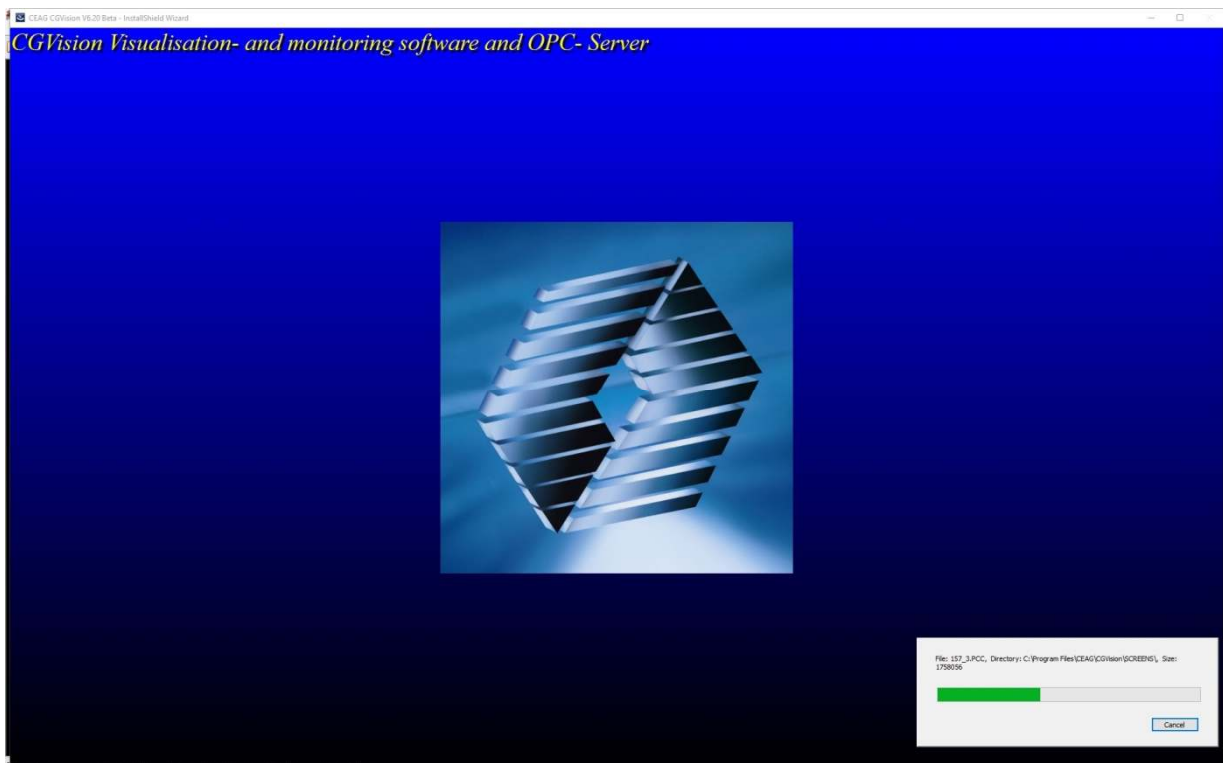
'Experts' enables individual installations of all programs, e.g. OPC servers, and installation of the CEAG BACnet server (optional). This setup should only be used by instructed expert personnel. Continue with 'Next'.



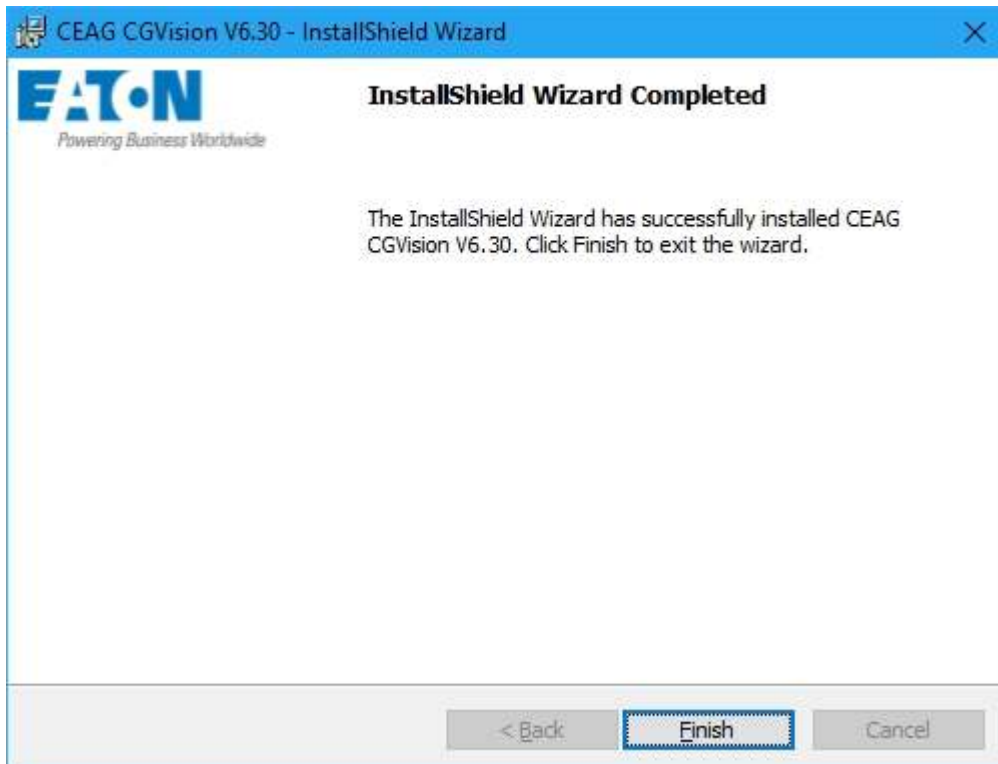
A summary of all specified data is then displayed:



Start the installation process by clicking on 'Install'. A progress bar informs about the status of installation:



After installation, a ready message appears. With "Finish" the installation of the CG-S OPC server starts automatically.



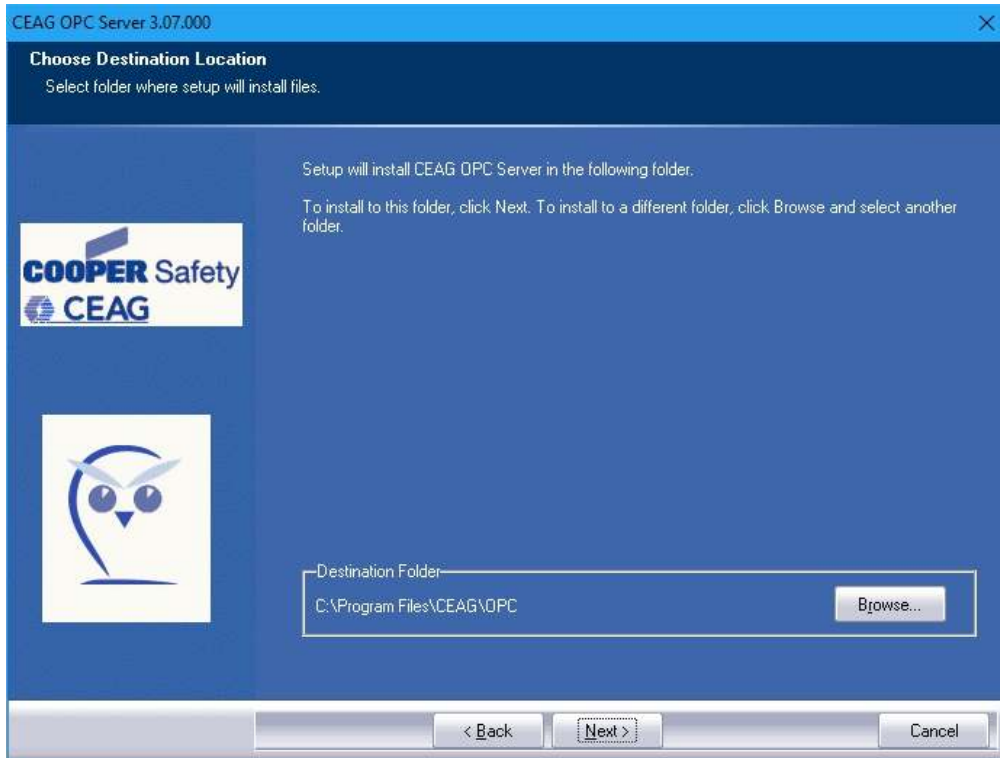
The language for the starting of CGVision is now queried:
Select your language and confirm with 'OK'.

Note: if this dialogue does not appear, then it must be brought to the foreground by selecting it in the taskbar.

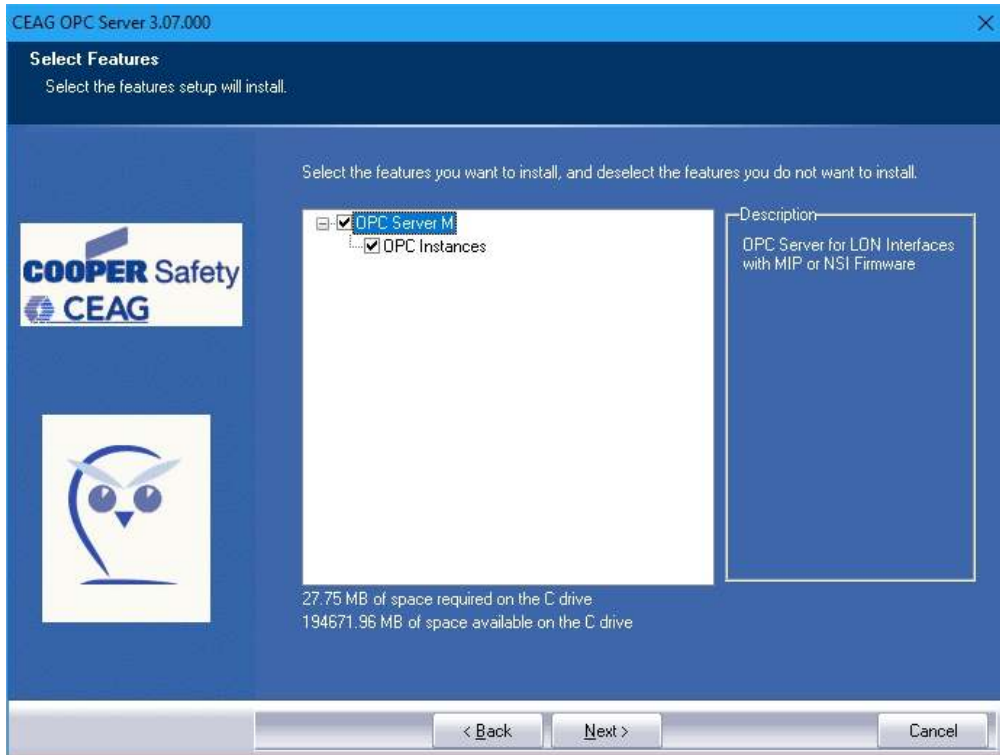


Installation of CG-S OPC server:

Selecting the destination folder for the CG-S OPC server:
We recommend maintaining the default path:



A selection of the OPC server appears. Both checkmark must be set!

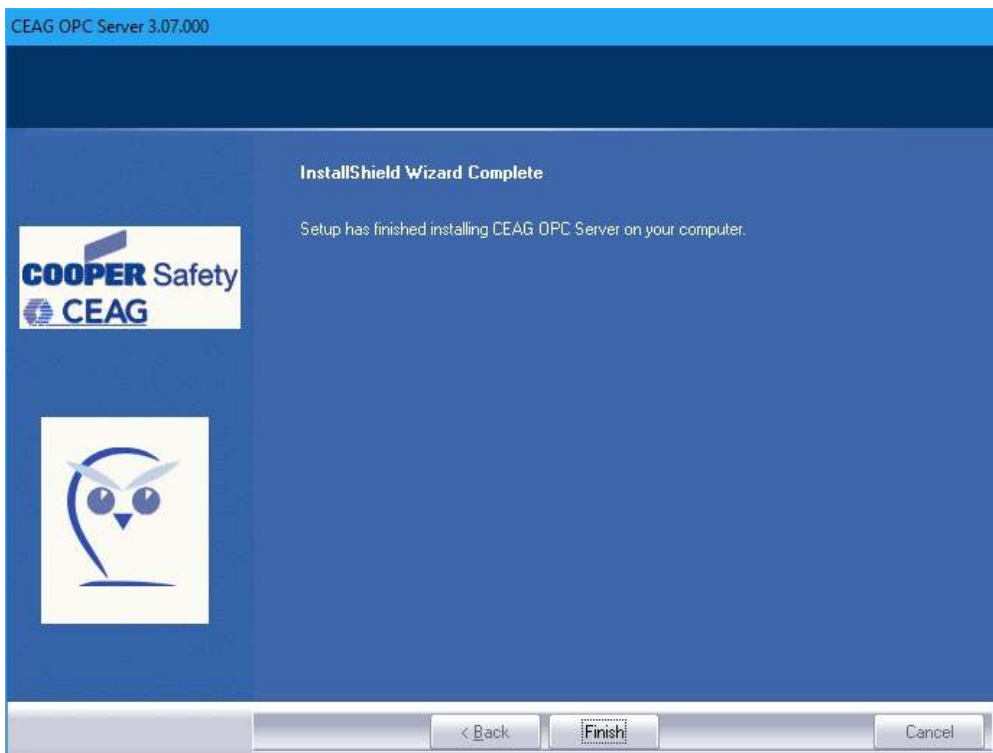


Continue with 'Next'.

The installation program creates a program group that is shown on the start bar under programs. We recommend maintaining the specification.



Installation of the OPC server now begins and a progress bar is displayed:



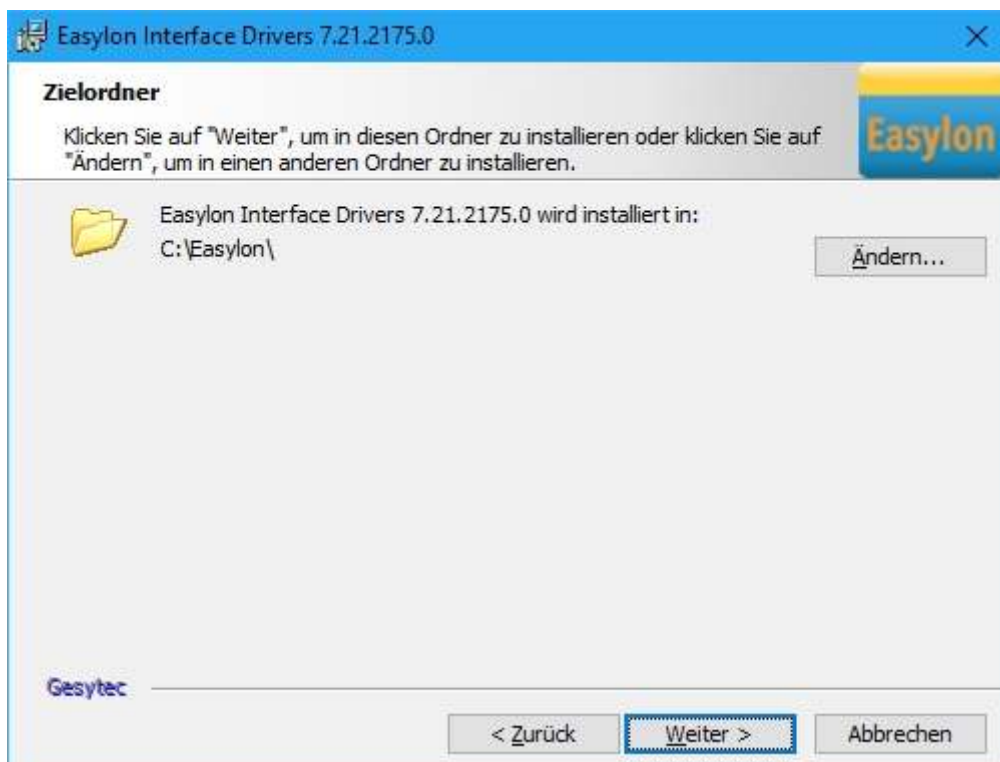
After completion, installation is terminated with „Finish“. The installation of the CG-S drivers starts automatically.

Installation CG-S driver package (in German language):

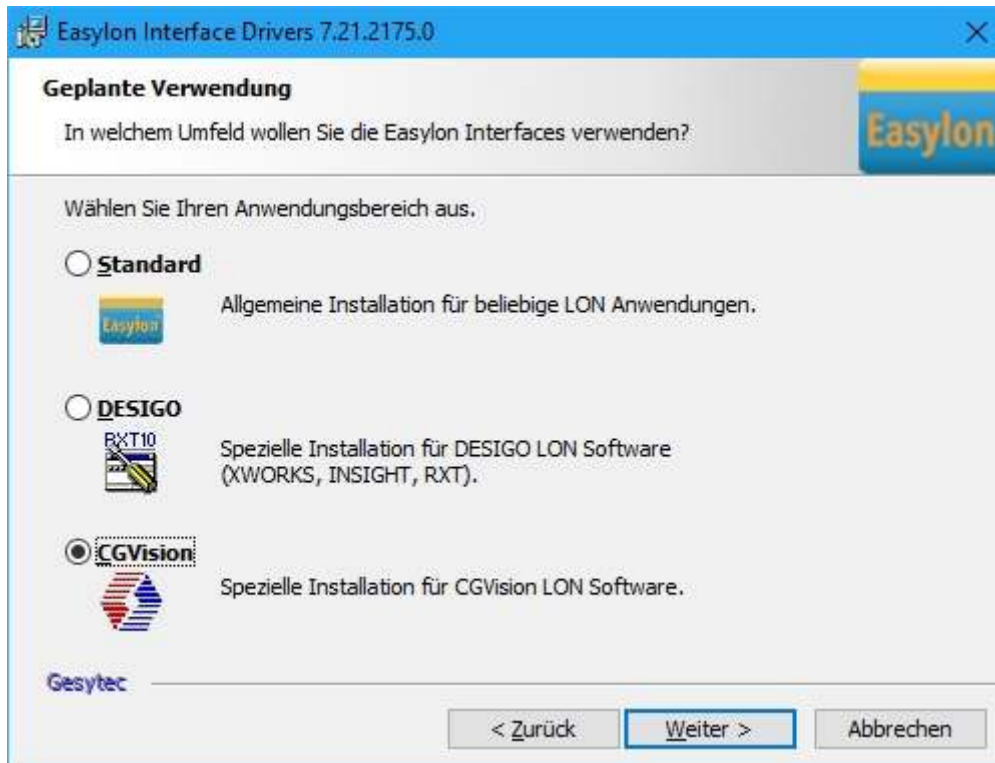
A screen with a licence agreement appears to use the CG-S driver software. Please read it carefully and click „Ich akzeptiere die Bedingungen der Lizenzvereinbarung“ (I accept the conditions of the licence agreement) and click „Weiter“ to continue.



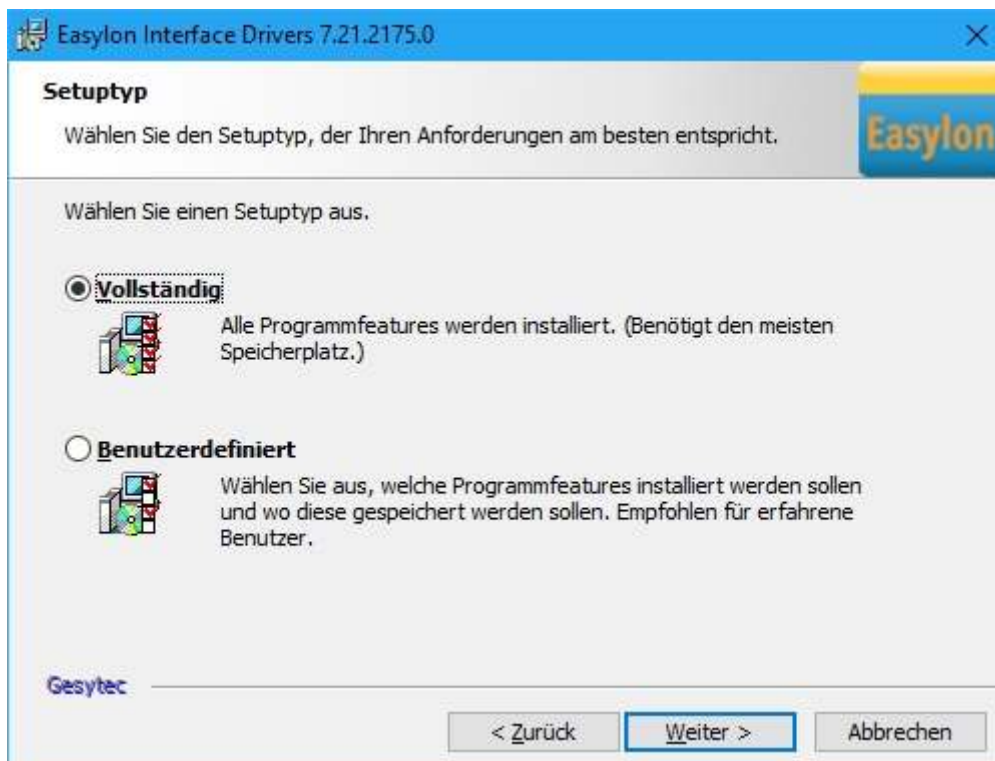
In the next picture the destination folder can be selected. It is recommended to keep the standard folder. Continue with „Weiter“



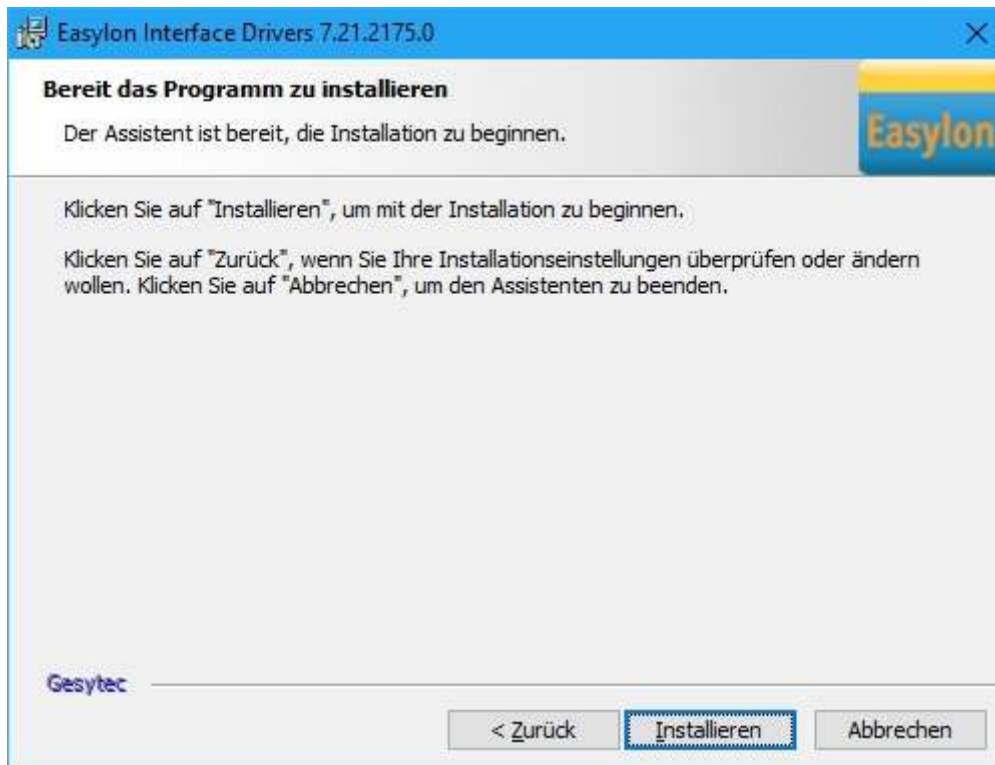
It follows a selection of an application of the driver. Please select „CGVision“ and continue with „Weiter“.



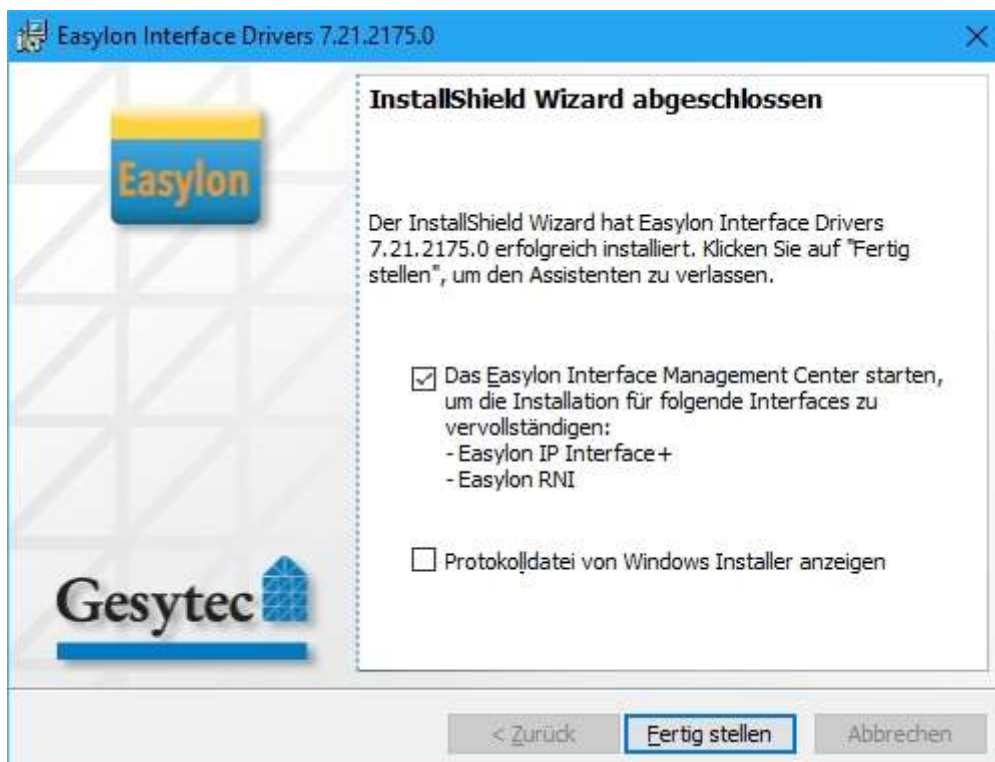
Now the setup type can be selected. It is recommended to install the complete (Vollständig) driver package. User defined (Benutzerdefiniert) installation is only recommended for skilled user. Continue with „Weiter“.



The installation can now start with „Installieren“, which takes some minutes. A graphic informs about the installation process.



The installation will be finished with „Fertig stellen“. A message appears to restart the PC. Please confirm with „Ja“ to restart the computer

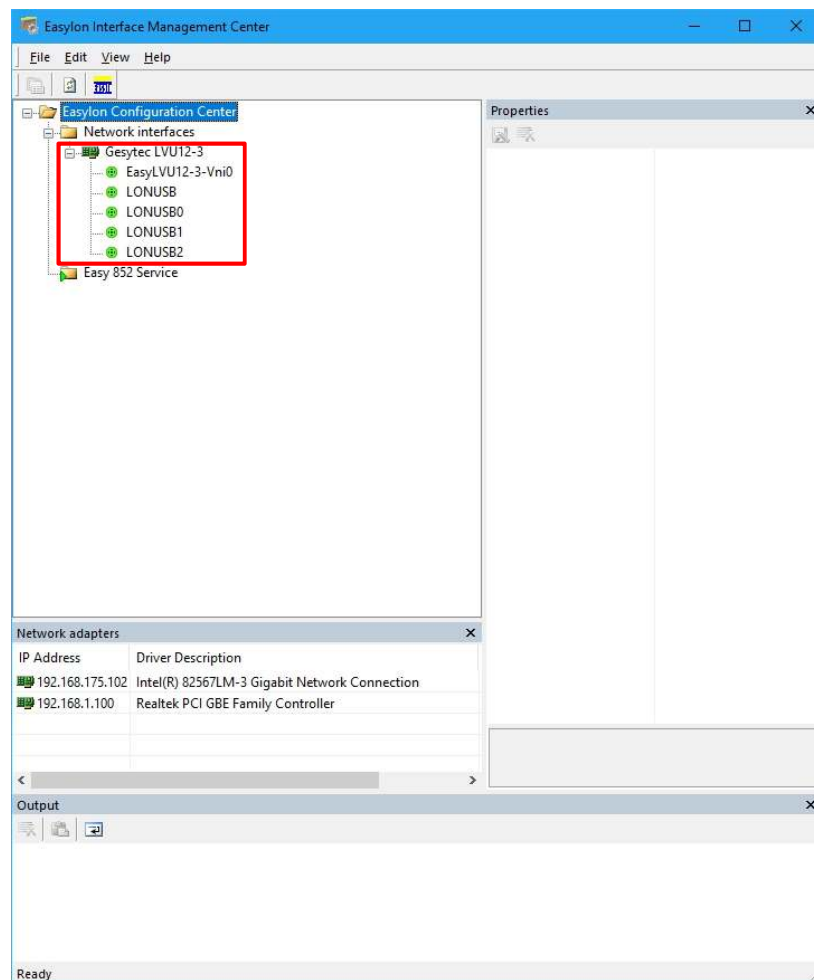


After restart of the PC, the CG-S interface can be configured in the Interface Management Center.

The Interface Management Center can be started via Start → all programs → Easylyon → EIMC (CGVision).

CG-S/USB-Interface (included in CGVision Package III):

If the CG-S/USB-Interface will be plugged in a free USB-Port of the PC, all drivers will be automatic loaded and installed in the device manager. After few minutes the CG-S/USB interface is ready for operation. After this procedure the green LED on the interface flashes.

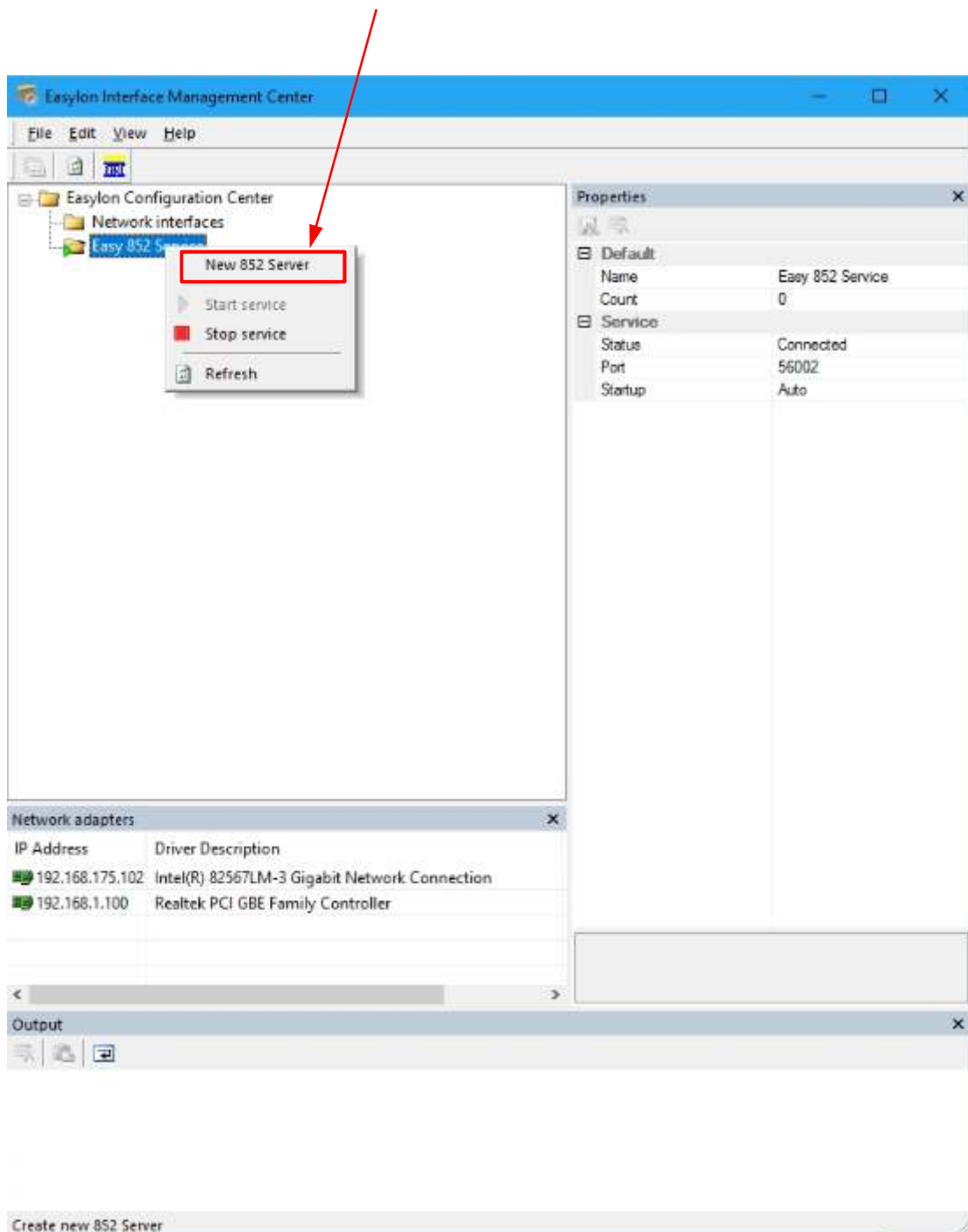


CG-S/IP-Interface (included in CGVision Package I):

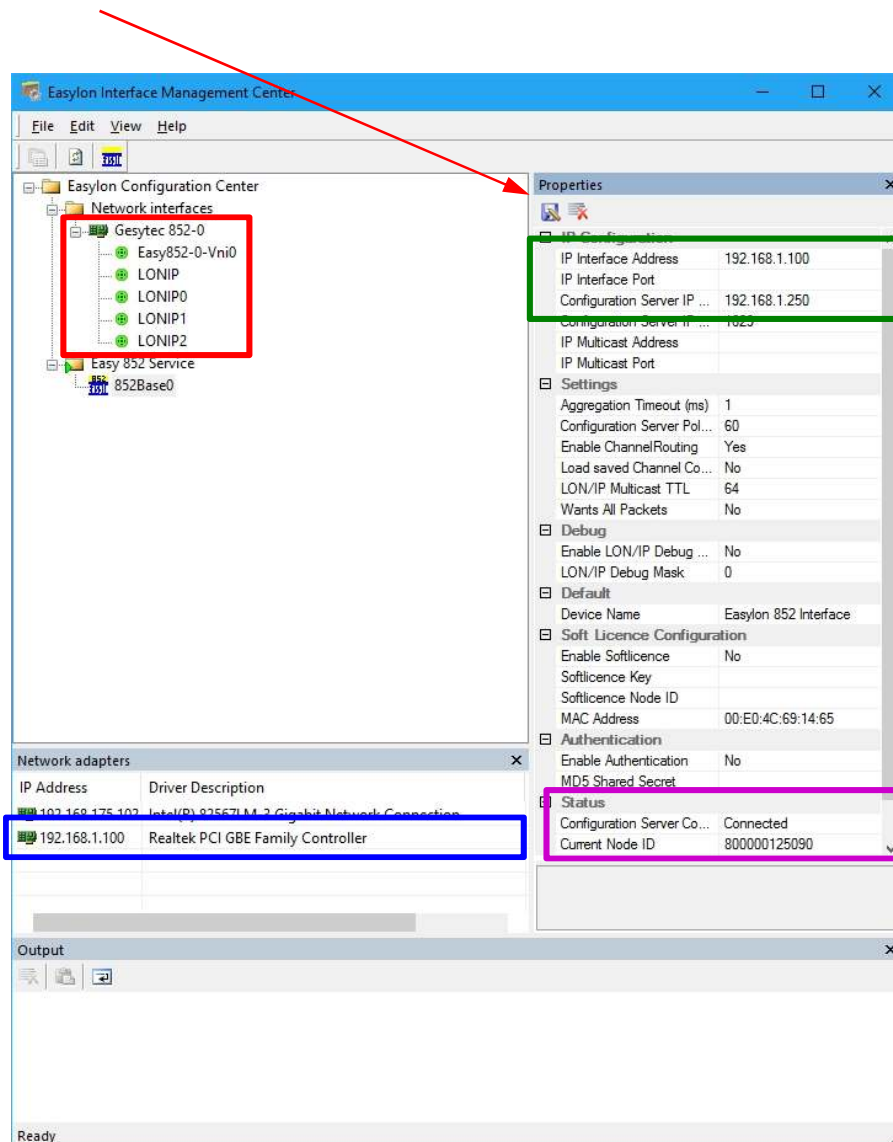
For the CG-S/IP-Interface all drivers must be installed, and the network settings must be entered under properties, to prepare the connection to the configuration server (CG-S/IP router).

For this the CG-S/IP-interface must be plugged in a free USB-port, and the configuration server (CG-S/IP router) must be ready configured in the network.

For this click with the right mouse button on „Easy 852 Server“. A drop-down menu opens. With left mouse click on „New 852 Server“ a new 852 server will be created.



After an inquiry which must be confirmed with „Ja“, all CG-S IP drivers will be created (red) and installed in the windows device manager. To take over the network settings (IP-address) a double click on the correct network is necessary (blue). The IP-address of the network card and the IP-address of the configuration server (CG-S/IP router) will be created under properties. If the CG-S/IP router is connected, the IP-address will automatic changed. If not, it is possible to edit the address in the field „Configuration Server IP“ via the save symbol, all settings are taken over.



After a refresh (F5 button or Edit – Refresh) the connection status to the Configurations server can be checked. If it shows „connected“, the connection between CG-S/IP-interface and CG-S/IP router is correct. (Purple)

The installation of the CGVision and the preparation of the interface is successful finished!

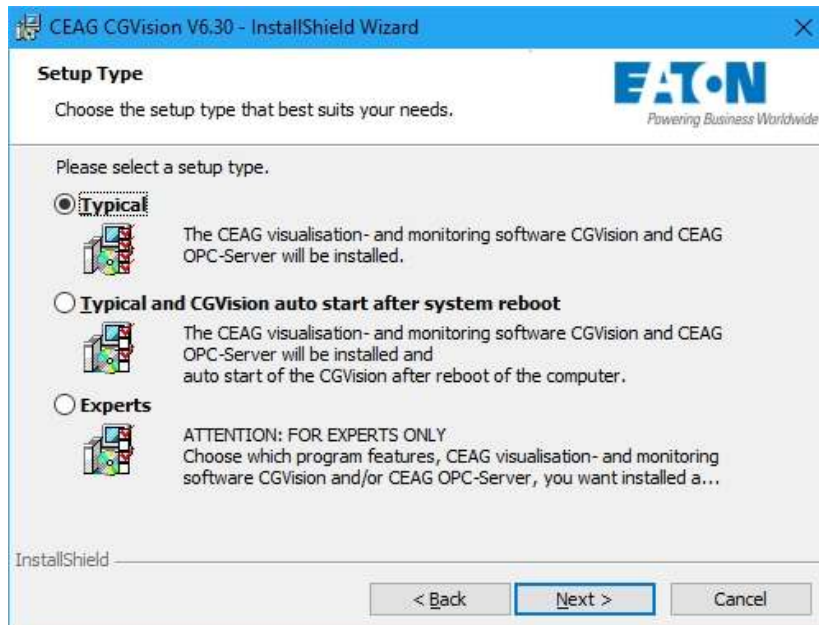
The CGVision can now be started via the CEAG icon on the desktop (as administrator) or via

Start → All Programs → CEAG → CGVision → CGVision.

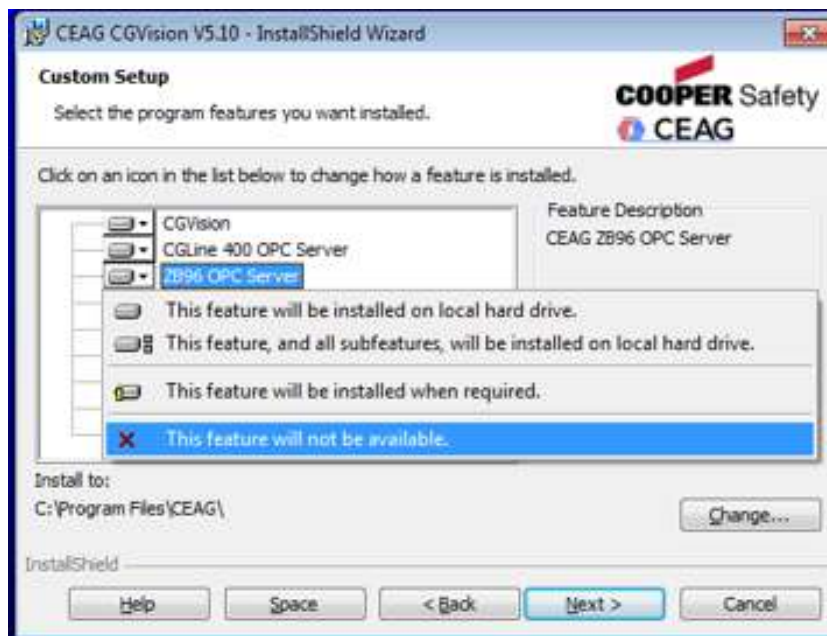
2.2 individual installation – CGVision/OPC server

It is also possible to install CGVision or OPC servers individually, for example when an OPC server is desired for a building control technology connection without CGVision.

In this case install as described in Section 1.1. 'Complete installation' until the following screen appears:



Click on 'Experts', and continue with 'Next'. In the next screen you can now select the features to be installed. As the default selection, all features (CGVision + OPC server) are installed except for the 'autostart function' and the 'CEAG BACnet server'. In order not to install a feature (e.g. OPC server ZB96), the corresponding drive must be selected. A selection menu opens:



To deactivate the installation, select 'This feature will not be available'.

This is repeated with all programs not to be installed.

Then click on 'Next' and follow the instructions.

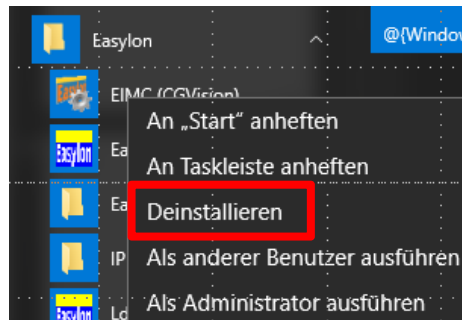
After completing the installation, restarting the computer may be required. The program required can be started via Start → Programs → CEAG.

2.3 Deinstallation – CGVision/OPC server

CGVision including OPC server can be deinstalled via
Start → All programs → CEAG → CGVision uninstall.

The CG-S OPC server must be deinstalled separately via
Start → All programs → CEAG → OPC Server → Uninstall CEAG OPC server

The CG-S driver packages can only be deinstalled via the windows menu „programs and features“ i the system control panel. For this click Start→Easylyon→EIMC (CGVision) with right mouse click on „deinstall“:



For an update a deinstallation is not necessary.

2.4 CGVision UPDATE to a new version

To update a new CGVision including OPC servers to a new version, for example V6.20 to V6.30, it is necessary to previously uninstall the existing CGVision and OPC servers.

The following steps are required or are recommended:

1. **Backup of program configuration, group configuration and inspection records** of all device groups → can be implemented via the Services menu in CGVision
2. Deinstallation of the existing CGVision and OPC server
→ With versions older than V5.02, please carry out deinstallation according to the CGVision-BA Rev.E.
3. Installation of the new CGVision and OPC server according to the installation instructions
4. Start new CGVision, reload the saved program configuration, group configuration and inspection records via the Services menu in CGVision.



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-Technical details subject to alteration-

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For the monitoring and control of
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Section 3
Structure and basic operation

3 CGVision Structure and basic operation

3.1 General overview / operation:

This Section 2 describes the general functions of CGVision for setting up a project (pre-settings) and for general operation, without directly specifying systems (devices). For detailed information please read the corresponding section for system types or special functions.

Setting up:

To operate CGVision as a 'full version', the following is required:

1. With operation of ZB-S / CG2000 emergency lighting systems under point j). "Settings" (see description on the following pages), the software must be activated by entering a licence key (OPC key).
2. With operation of EGA emergency lighting systems (ZB96 / EuroZB.1 / GVL24.1 / CG48), an EGA licence is required for activation in the form of a dongle (for a USB port).

For EGA licence (dongle) on CGVision (part number: 40071347930), or in combination with CGLine or layout programming, a combi-licence (dongle) (part number: 40071347932) is required.

Without the above activation, CGVision can be run for 120 minutes each time as a DEMO version.

For operation of layout programming, a licence (dongle) is mandatory however.

Operation:

CGVision is started via the 'CGVision' symbol on the desktop or via the start bar in the 'Programs' menu. Please note that the start process may take some time. The following **Main group screen** is displayed:



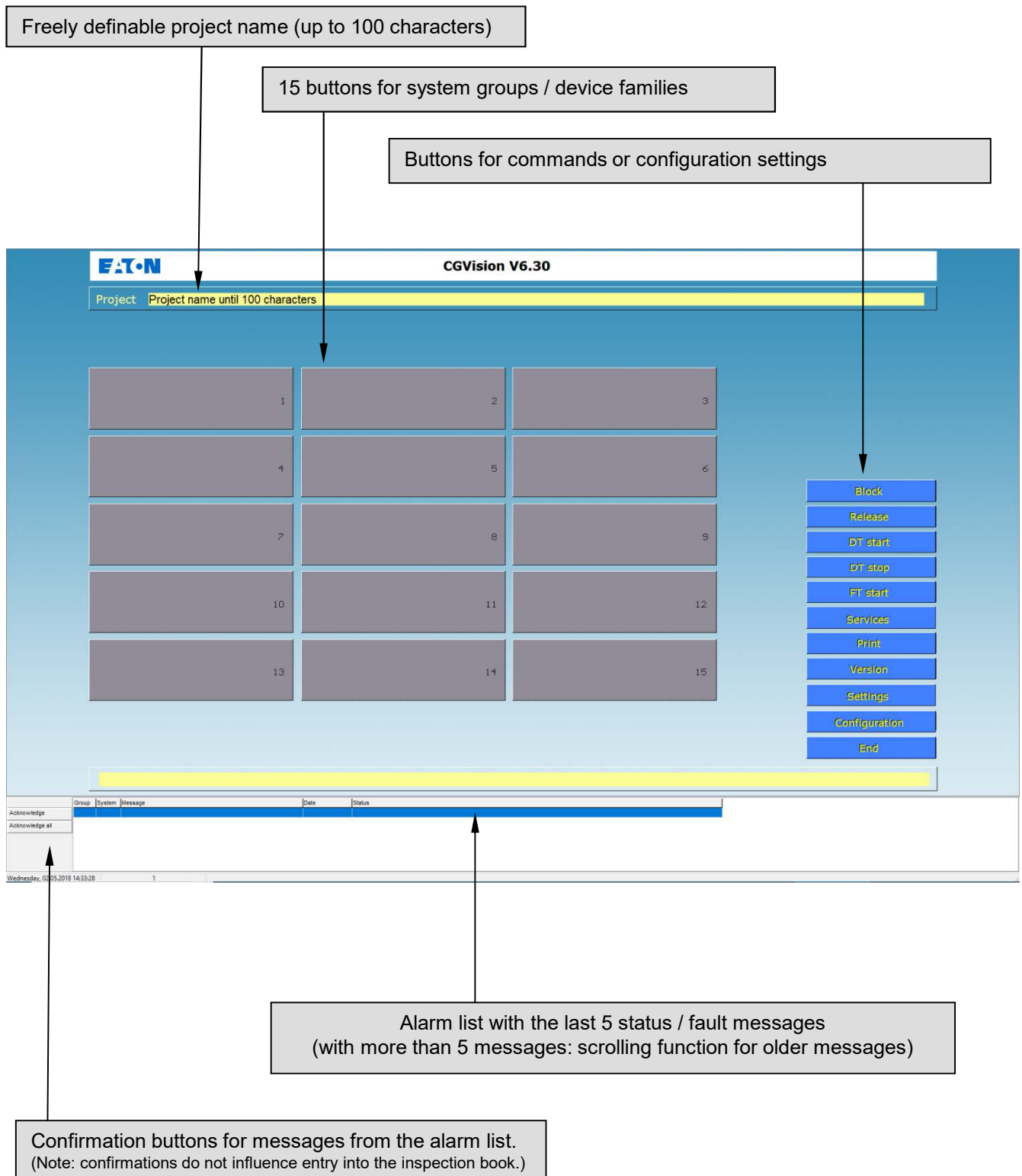
This shows 15 grey fields in which 'system groups / device families' can be assigned, and that are not yet configured in their basic state.

The area on the right displays buttons for commands or configuration settings.

The 'Configuration' button enables up to 15 system groups each with up to 32 emergency light devices to be configured.

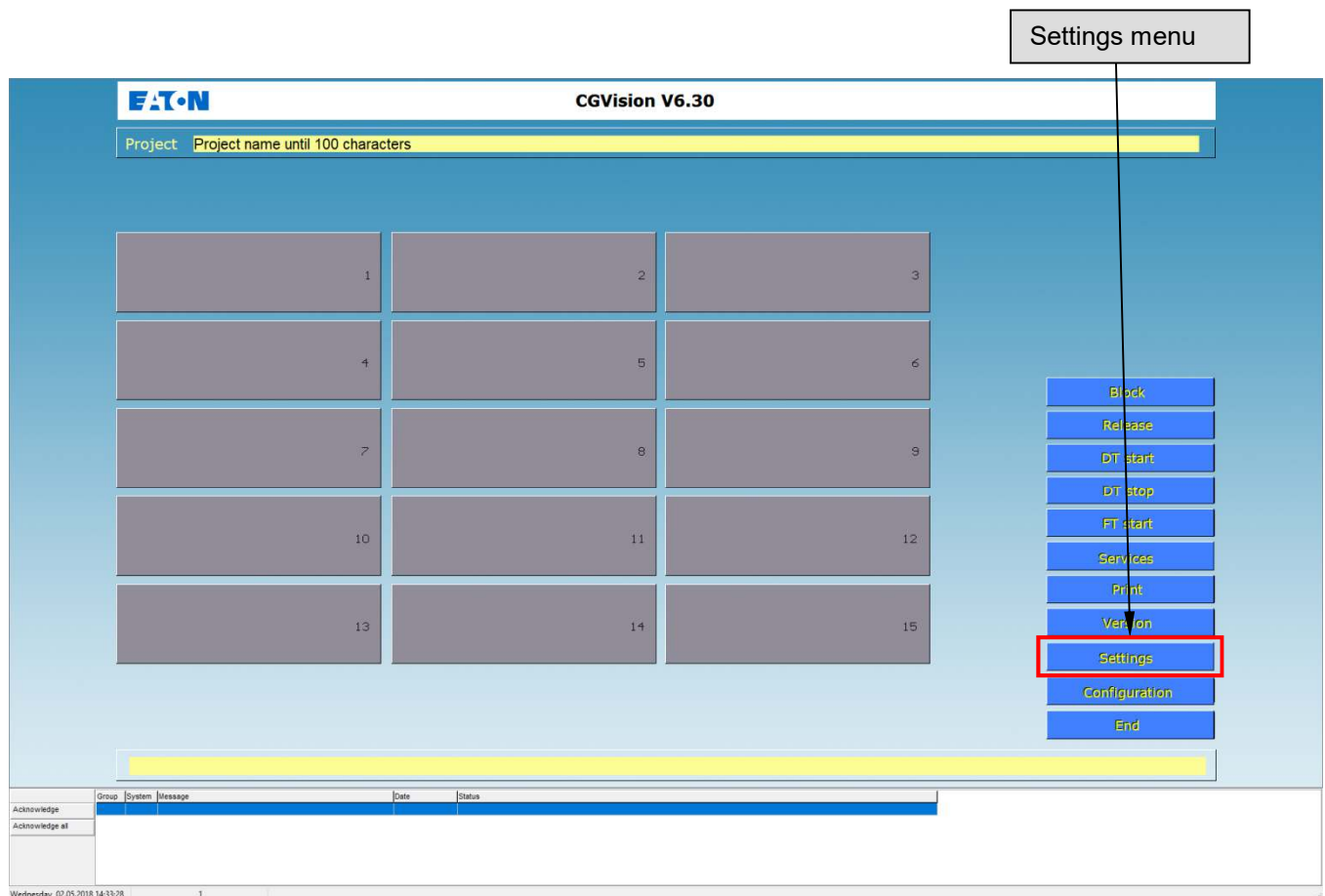
3.2 'Main group screen'

3.2.1 Structure of the main group screen (start screen following first installation)

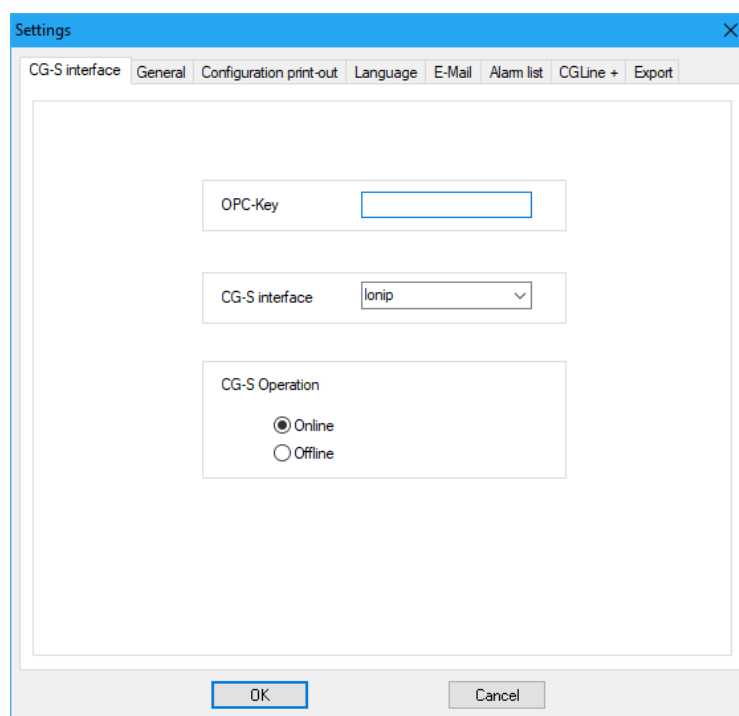


3.2.2 Basic pre-settings

Before commencing a project it is useful to carry out fundamental pre-settings in CGVision, e.g. entering the licence key, activating program options etc. These are carried out in the Settings menu:



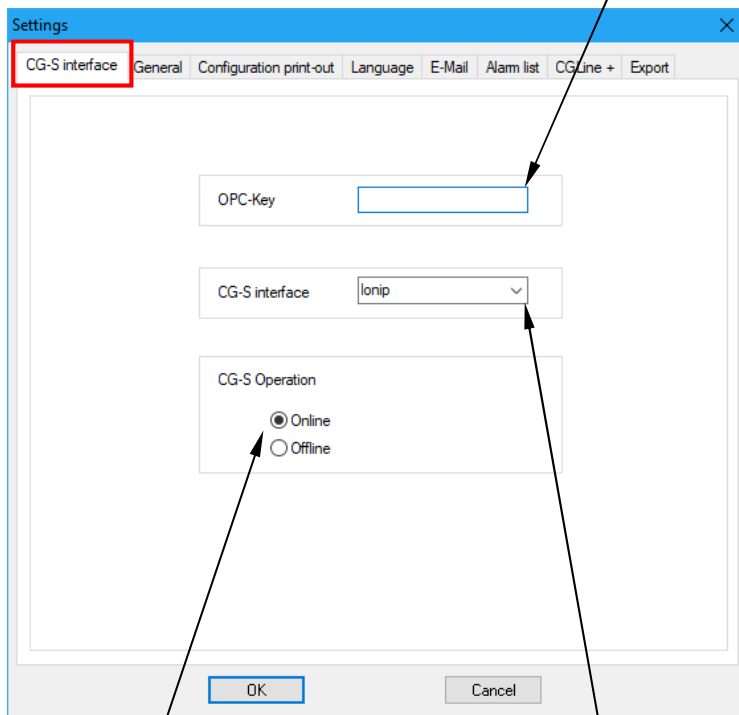
The following settings menu opens:



CG-S interface

The type of interface for CG-S operation is selected in the CG-S interface menu. This is required as soon as ZB-S or CG2000 systems are connected.

With use of ZB-S/CG2000 emergency lighting systems, CGVision must be licenced as a full version in the 'OPC-Key' field. The OPC key (licence key) must be entered for this. You can locate the OPC key on the rear of the CD package (label). **Please be sure to keep this in a safe place. If the OPC key is lost no replacement is possible.** The key functions only with the interface supplied.

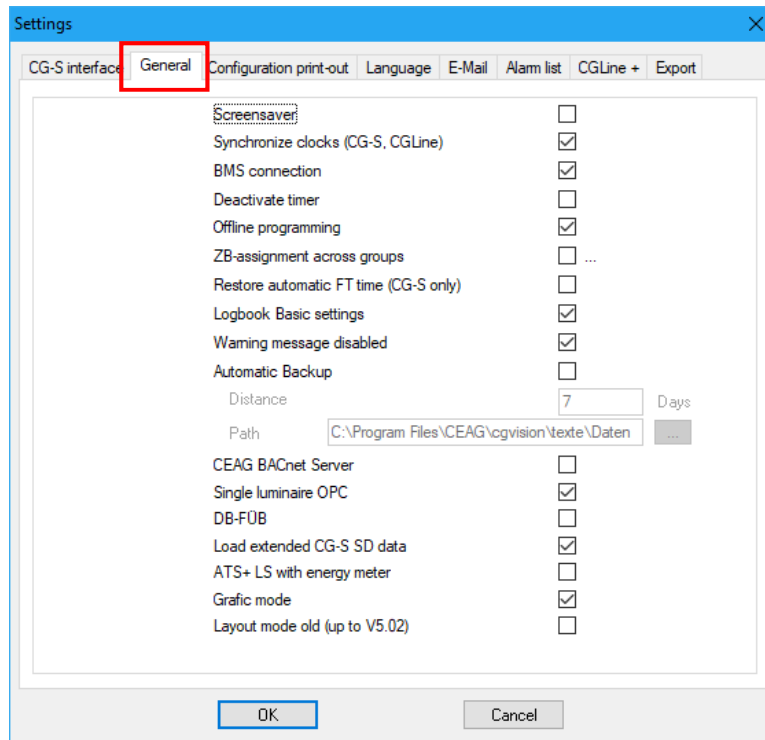


Selects whether CG-S operation is implemented online or offline. This deactivates the OPC server so that CGVision can be used for demonstration purposes without having CG-S systems connected.

Selection of the CG-S interface
1. CG-S/USB interface box
2. PCI plug-in card (custom option)
3. CG-S/IP interface

General

By checkbox marking in the 'General' menu, basic settings can be carried out and options activated, e.g. graphic mode etc.



1. Screensaver:
If 'Screensaver' is activated, the **'Marquee'** screensaver when activated in Windows displays the logotype with the current CGVision status on the desktop. For this function, the 'Marquee' screensaver in Windows must be set up. (does not function with WIN7)
2. Synchronise clocks:
If this option is activated, all clocks of the CG-S systems (CG2000/ZB-S) are synchronised with the Windows system clock via CGVision daily at 3.33 am.
3. GLT connection:
This activates a special BMS variable (SNVT state64) in the CG-S OPC server of CGVision with 35 x status information for an OPC-coupled GLT (building management technology). Only available for ZB-S systems !
A separate interface description of this BMS variable is available via the CEAG office sales team
4. Deactivate timer:
This deactivates the timer functions for each system group in CGVision, improving program speed.
5. Offline programming:
This enables OFFLINE programming up to luminaire level for ZB-S and CG2000 systems.
6. Group higher-level LADS assignment:
This enables the assignment of substations from other groups than the corresponding LAD (battery supply). This ensures parallel starting of a common continuous operation test (BT).
7. Restore AutoFT in systems (only CG-S):
When CGVision is exited, all automatic tests (FT/BT) are carried out again independently by the systems. Only valid for ZB-S/CG2000.
8. Basic settings for inspection book:
This activates the menu in the inspection books: 'Edit' → 'Basic settings'. Here supplementary texts (text files) can be activated for the individual inspection book events in each inspection book.
9. Warning message deactivated:
Deactivates the warning message for saving to a memory card: 'Function only available from 07/2004'.
10. Automatic backup:
Enables automatic BACKUPS for CGVision program-/group configurations including inspection books. If the option is activated, the backup period in days and the destination folder for backups can be specified.
11. CEAG BACnet server:
This enables activation of the optionally available CEAG BACnet server. A dongle is required for the full version. Without a dongle the CEAG BACnet server is limited to 120 minutes of running time for test purposes.
12. Graphic mode:
Activates layout programming in the main group screen and system group screens
Note: the licence (dongle) for layout programming is required for this.
13. Layout mode, old (up to V5.02)
Enables the layout format of older layout programming (800x600 dpi) to be retained

Print configuration

In the 'Print configuration' menu, diverse pre-settings can be specified for CGVision printing functions, as well as activating of the time-based, fully automatic printing function.

Note: the automatic printing function uses the standard printer specified in Windows. For this purpose a standard printer must be defined in the Windows print settings.

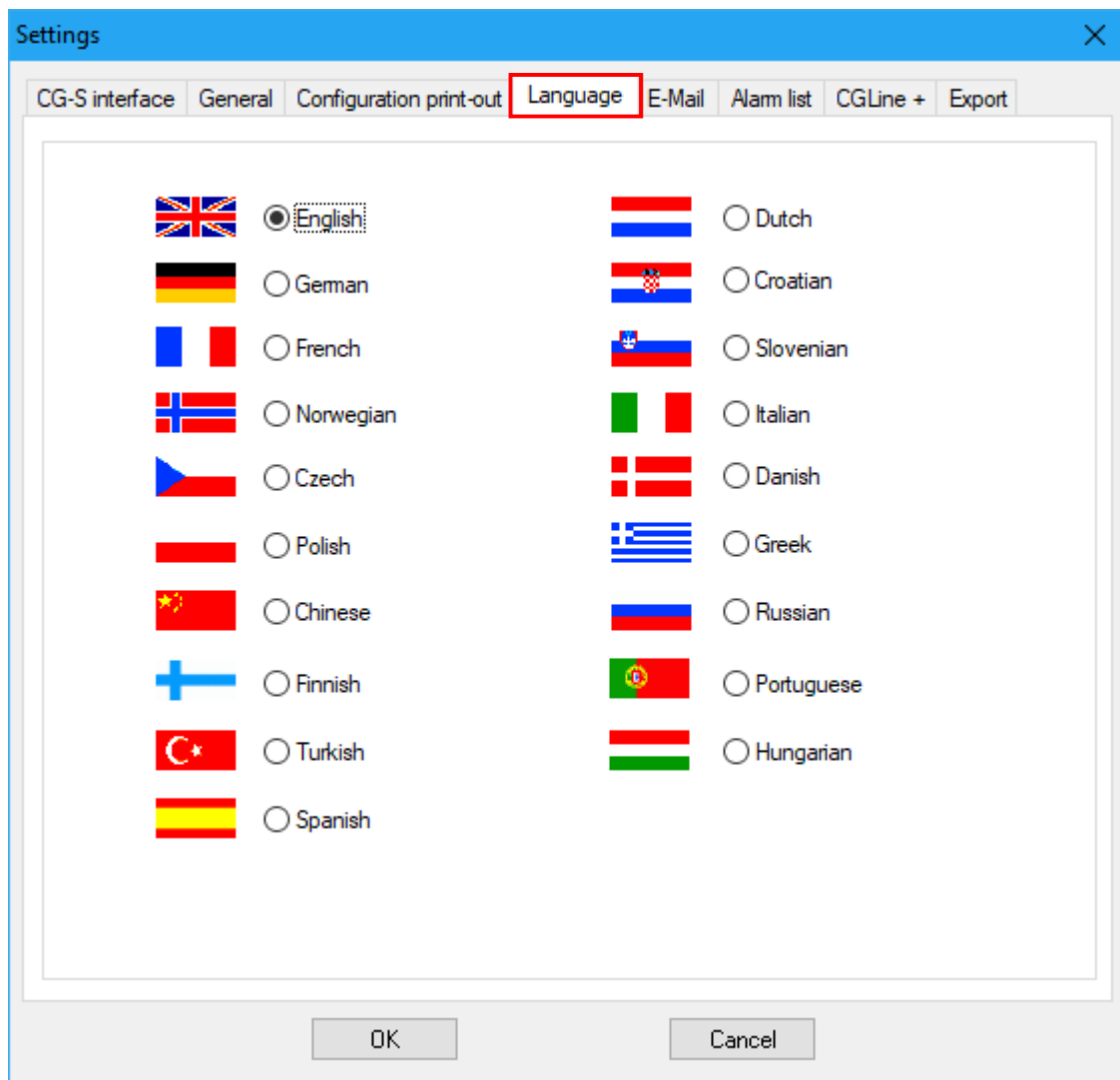
The screenshot shows the 'Settings' dialog box with the 'Configuration print-out' tab selected. The dialog has several sections and options:

- Top section:**
 - no new page at group print out! (Callout: If the option is activated, all supplementary information (100 characters per luminaire/device...) is also printed.)
 - Print configuration with information (Callout: To save paper, the printout can be configured so that new pages are not needed for each system. If this function is activated, space is saved via printing continuously, although to the detriment of clarity.)
 - Automatic print-out (Callout: The 'Automatic printout' function activates the menu below this, 'Configuration of automatic printout'.)
 - CGLine: Print all luminaires (Callout: With CGLine, only the faulty luminaires are printed out as standard. If information for all single battery luminaires should be printed, activate this option.)
 - ZB-S: Print configuration with reserve
- Configuration auto print section:**
 - Print devices with error (Callout: This specifies that only information for faulty systems is automatically printed out. The status for systems without errors is not printed.)
 - Set up time:**
 - Time: 07:00:00
 - Days: Su, Mo, Tu, We, Th, Fr, Sa
 - Buttons: All, OK, Cancel
 - Group section:**
 - 01 -
 - 02 -
 - 03 -
 - 04 -
 - 05 -
 - 06 -
 - 07 -
 - 08 -
 - 09 -
 - 10 -
 - 11 -
 - 12 -
 - 13 -
 - 14 -
 - 15 -

Callout for the Group section: Specification of time, weekdays and device groups that are to be automatically printed.

Language

Normally the language is set during program installation. The CGVision language can be retrospectively modified here at any time. Restarting of CGVision is not required.



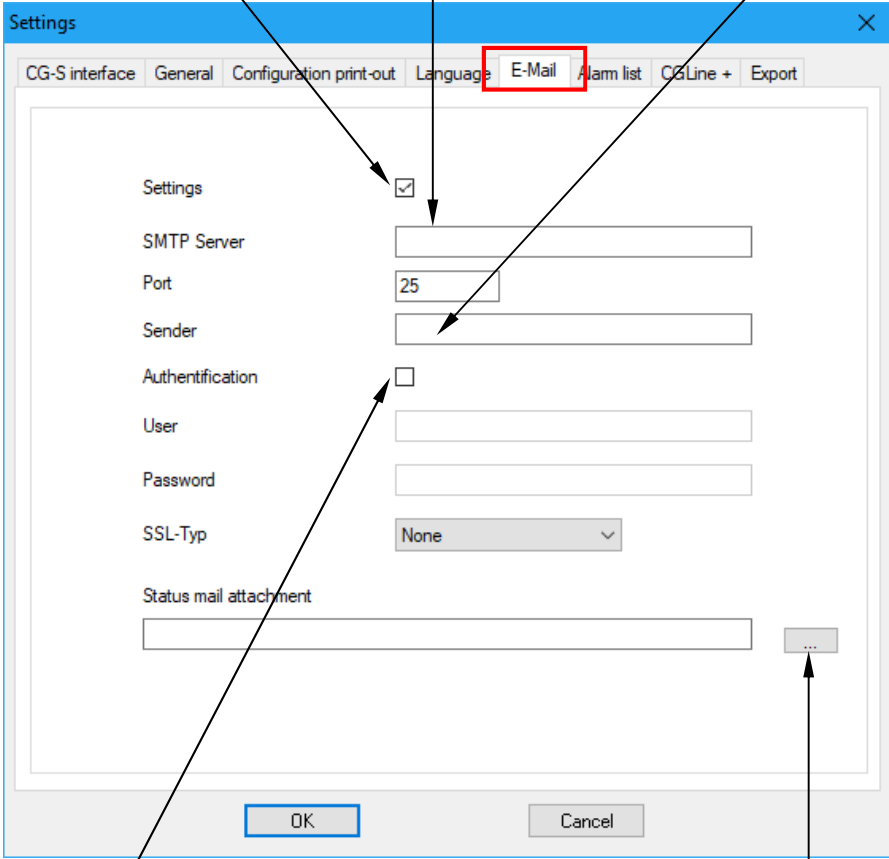
E-mail

If the e-mail function is desired for CGVision, basic data for the e-mail function must be entered in the 'E-mail' menu. The 'Settings' arrow activates the e-mail function in the individual device groups. For mail functionality, the CGVision PC must be installed in a network with access to a mail server.

The checkbox activates the e-mail function in the device groups. Please read the 'E-mail function in CGVision' section to use this function.

A valid mail server must be entered here.

If a sender is specified here, this name appears in the header of the e-mail sent.



If an authentication in the mail server is required it must be activated here and the user name and password entered.

It is possible to send a special attachment with the automatic status e-mails (can be set in the corresponding mail menus). This can be defined here.

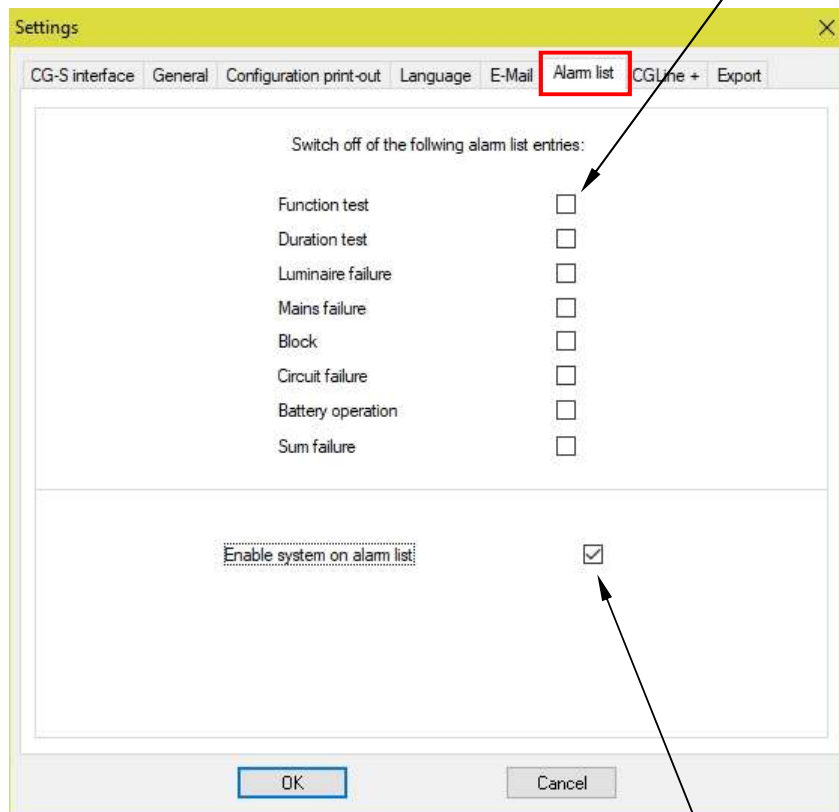
Alarm list

In the Alarm List menu, unwanted entries in the alarm list in the lower part of the CGVision can be deactivated to improve the oversight.

However, the events are still logged in the test book!

You can also activate hyperlinks from the alarm list entries. Double-clicking on the entry opens the corresponding device image to display the event directly.

If you check the box, the events will be removed from the alarm list accordingly.



By setting the check mark the hyperlink function is activated by double-clicking on the event to the devices.

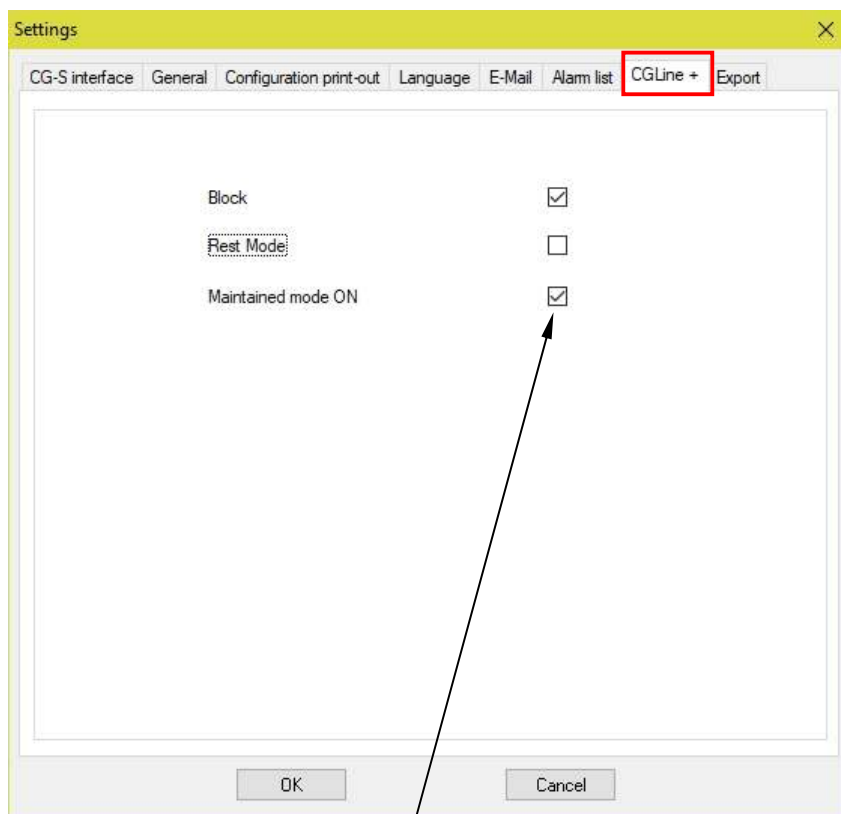
CGLine+

In the menu CGLine+ the functions Block, Rest Mode and DL Lights OFF/ON can be activated.

Block: The blue "Block" button is displayed in the device image and in the lower levels. The "Block" function deactivates the emergency lighting function, e.g. during idle times, in order to avoid unwanted discharge of the batteries in the single-battery luminaires.

Rest Mode: For the French market. Blue button "Rest Mode" is displayed. The "Rest Mode" function can only be activated during a power failure. This command switches off all lights during emergency lighting. When the mains power is restored, the luminaires are returned to normal operation.

DL Lights ON: Allows all permanent lights to be switched OFF or ON (L and L` in the light must be bridged for this) per device / line / zone / individual light.



With the check mark the corresponding functions are activated

Export

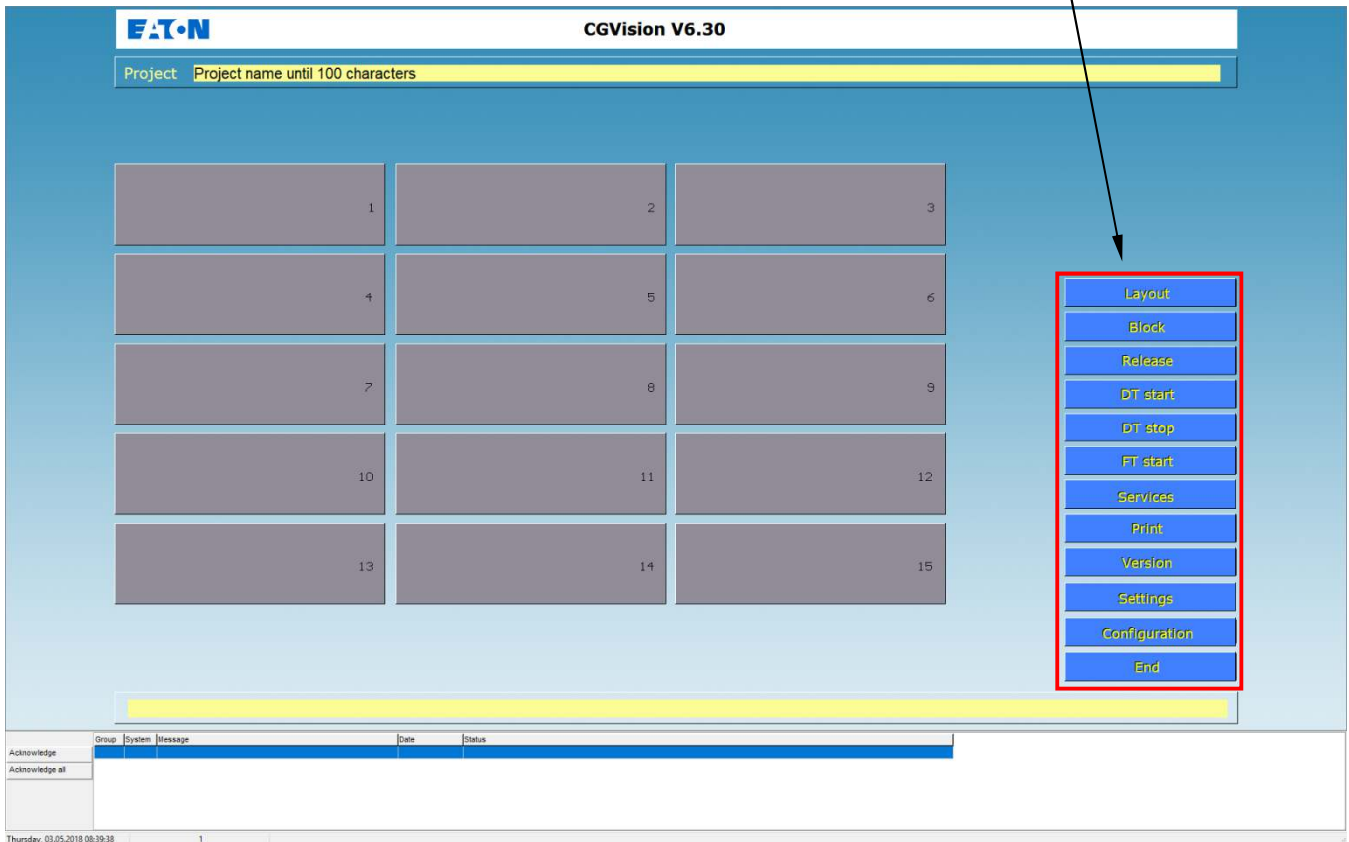
The export menu allows you to export an Excel-based .csv file with current luminaire errors, which can be used for external evaluation, e.g. export to an external drawing system or to create statistics with Excel. The .csv file is exported either manually or automatically to the directory C:\Programs\CEAG\CGVision\Texte\Data. The file always has the name: LumErrExport_0.csv. If desired, the file can be exported to another directory or sent as an e-mail. In order to be able to process the export file further, an external program call can be set up, where e.g. after file export a batch file can be started, which makes the file available to another program. Translated with www.DeepL.com/Translator

The screenshot shows the 'Settings' dialog box with the 'Export' tab selected. The dialog is divided into several sections:

- Release luminaries error export:** A checked checkbox. A callout box labeled 'Enable automatic file export' points to this checkbox.
- Manually export:** A button. A callout box labeled 'Creating a manual file export' points to this button.
- Copy export file:** A checked checkbox. A callout box labeled 'Export file can be exported to a freely configurable directory, e.g. network drive' points to this checkbox. Below it is a 'Path' field with a browse button.
- External program call:** An unchecked checkbox. A callout box labeled 'Setting for calling up an external program, e.g. batch file' points to this checkbox. Below it is a text field and a browse button.
- Send export file by email:** An unchecked checkbox. A callout box labeled 'Sending the export file by e-mail to up to 5 mail recipients. The e-mail function in the "E-mail" menu must be set up for this.' points to this checkbox. Below it are five 'Recipient' fields (Recipient 1 to Recipient 5) and an 'Email text' field.
- Set up time:** A time selection area. A callout box labeled 'Tag and time preselection for automatic file export' points to the '21:30:00' time field and the 'Time' selection area. The 'Time' area has checkboxes for Su, Mo (checked), Tu, We, Th, Fr, Sa, and an 'All' button.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom. A callout box labeled 'Freely configurable text in the mail header' points to the 'Email text' field.

3.2.3 Function buttons

Button functions for command or configuration settings for all systems



- a). 'Layout'
Calling up of the first available layout
(option must be authorised via a dongle, available separately.)
- b). 'Block'
All systems (devices) are blocked.
- c). 'Release'
All blocked systems are released.
- d). 'Start BT'
For all systems a BT test (continuous operation test) is carried out.
- e). 'Stop BT'
BT test (continuous operation test) is aborted for all systems.
- f). 'Start FT'
For all systems an FT test (function test) is carried out.
- g). 'Services'
Various services for the inspection book, and saving/opening of configurations
- h). 'Print'
A screenshot of the current screen is printed.
- i). 'Version'
Display of the current software version
- j). 'Settings'
Setting of the menu language, **licence key entry** (with ZB-S/CG2000), and basic functions for CGVision
- k). 'Configuration'
Configuration settings for all data in the main group screen
- l). 'Exit'
Exit program

a). Calling up of the available layouts (option must be released, see the 'layout programming' section)

b) - f). Previously written commands (points b-f) are directly executable by clicking on the button and are valid for all systems displayed on the corresponding screens.

g). 'Services'

Compressing and saving of the inspection book, and saving or opening of the program-/layout configuration

h). 'Print'

A screenshot of the current screen is printed

i). 'Version'

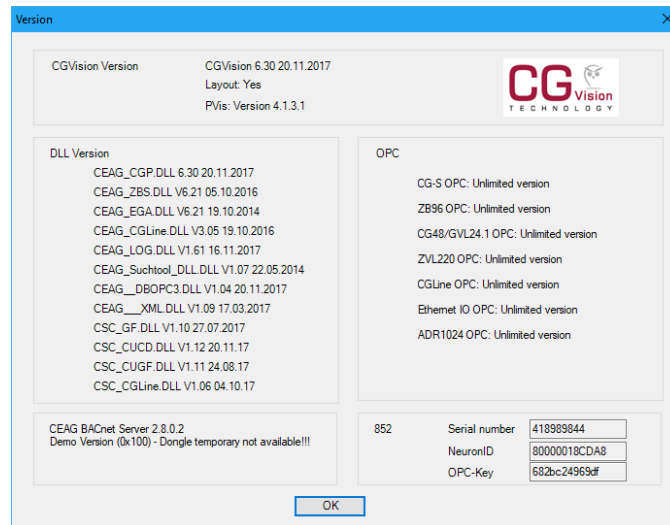
Left side of screen) Display of existing licences

Right side of screen) Specification of current software versions

- Demo version = 2 hours demo running time

- Unlimited version = Licence released

Note: If CG-S OPC shows '???' , then the licence key in the 'Settings' menu has not been entered, or no CG-S devices (ZB-S/CG2000) were created in CGVision.



With technical queries please always specify the above software versions.

j). 'Settings'

Modification of program language, entry of licence key, activation of special functions. See 'Basic pre-settings'.

k). 'Configuration'

Configuration settings for all data in the main group screen, e.g. adding devices

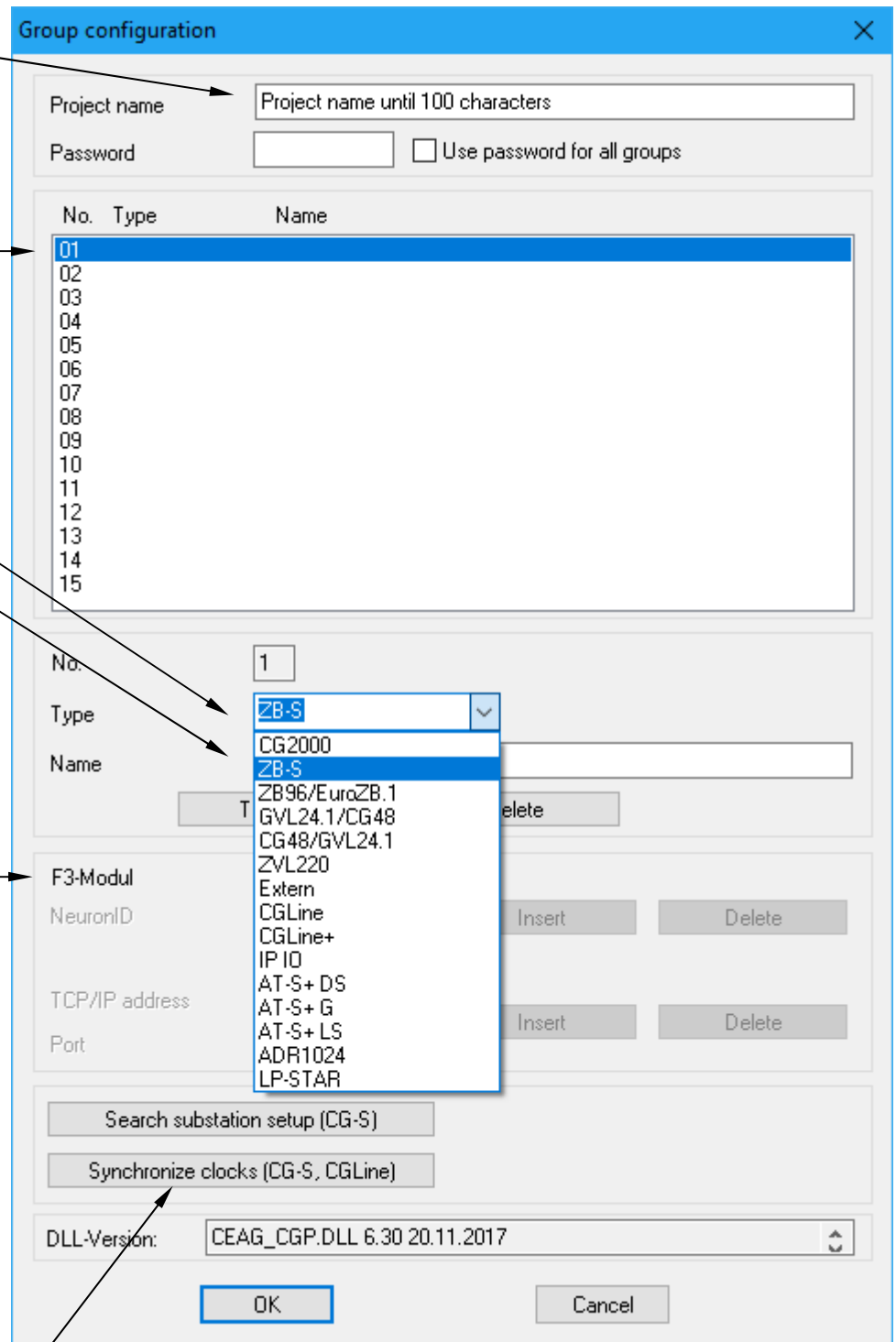
Entering of a project name (max. 100 characters) and possibility of setting password protection for configuration modifications. Password can be defined for all device groups via the checkbox.

To add a system group, in the system field first mark the system group number so that this is displayed dark blue.

Then the system type, meaning the 'device family' (as shown in the screen) and a name can be defined. To adopt the entry, click on the 'Accept' button. To delete a system group, mark the corresponding system group in the system field (blue) and click the 'Delete' button.

From version 1.04 it is possible to connect an F3 module to CGVision to implement messages (e.g. composite errors) to a higher-level GLT (building management technology) via zero-potential contacts. (see operating instructions for the F3 interface)
 1. F3 interface (40071347138)
 For registering, the NeuronID must be entered.
 2. New I/O ethernet module (40071360020)
 For registering, an IP address must be entered.

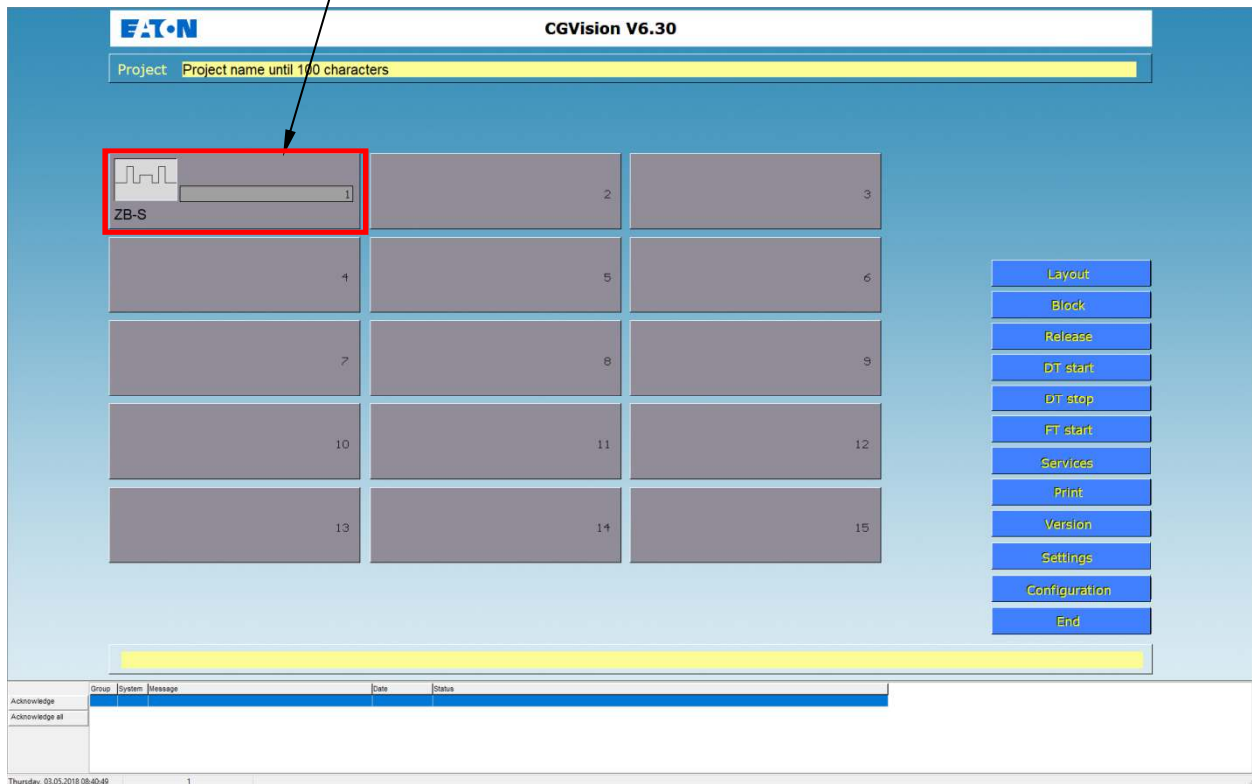
The 'Synchronise clocks' button enables all connected CG-S systems to be manually coordinated with the CGVision system clock.



l). 'Exit'
 Exits CGVision.

3.2.4 Adding a system group

After a system group (device family) was added according to Point k) 'Configuration', e.g. ZB-S, this is displayed in the assigned button. This button is now active, and when it is clicked the next screen opens: 'System group screen'.

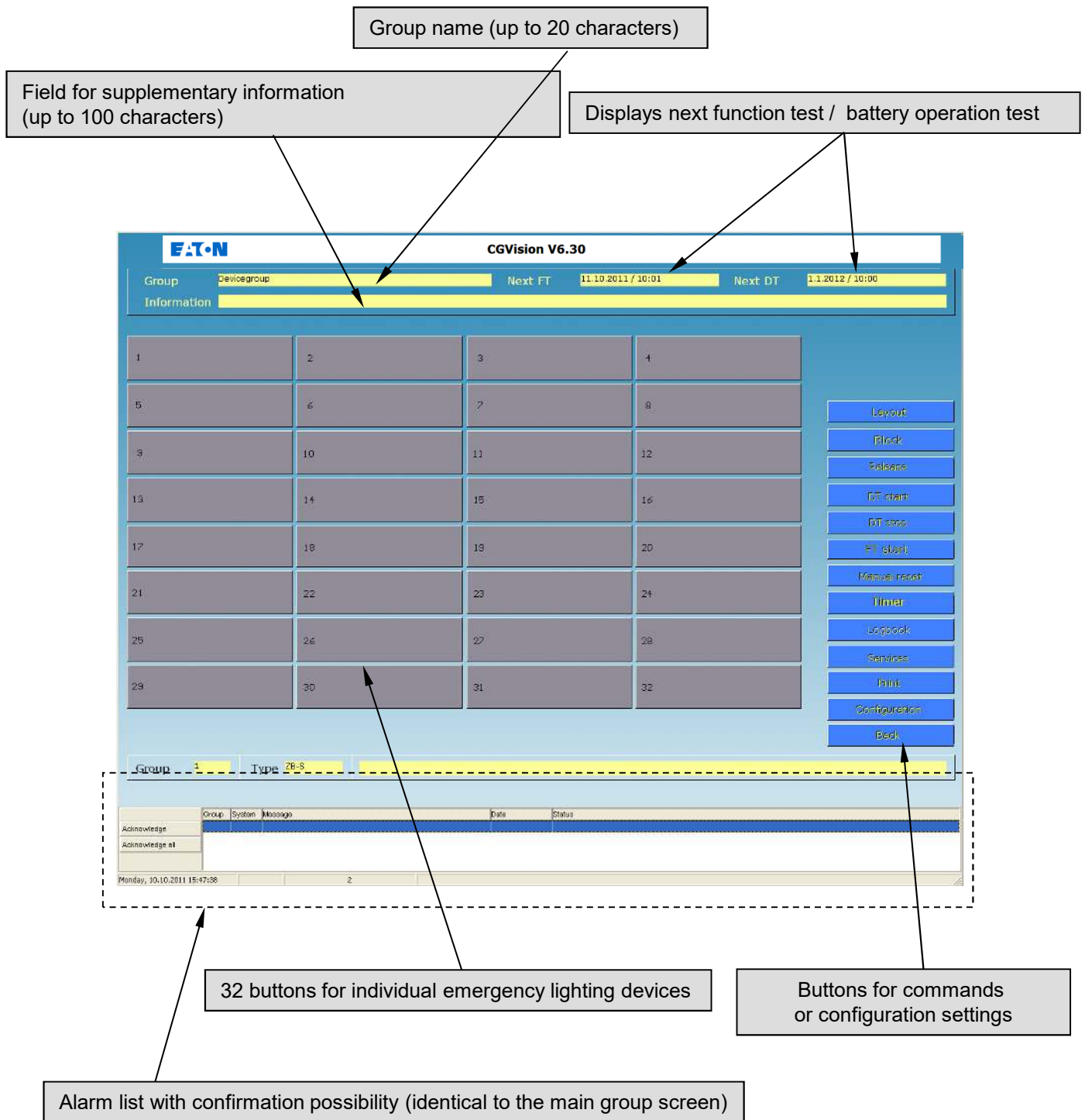


I). 'Exit'

This button enables the program to be exited. Please observe that the inspection book is then no longer maintained.

3.3 'System group screen'

3.3.1 Structure of the system group screen:



Button functions for command or configuration settings, affect all systems of the system group screen



- a). 'Layout'
Calling up of the first available layout of the system group
(option must be authorised via a dongle, available separately.)
- b). 'Block'
All devices of the system group are blocked.
- c). 'Release'
All blocked devices of the system group are released.
- d). 'Start BT'
A BT test (continuous operation test) is carried out for all devices of the system group.
- e). 'Stop BT'
BT test (continuous operation test) is aborted for all devices of the system group.
- f). 'Start FT'
An FT test (function test) is carried out for all devices of the system group.
- g). 'Manual resetting'
This enables all devices responding to manual resetting to be reset.
- h). 'Timer'
Configuration menu for Timer 1 and Timer 2.
- i). 'Inspection book'
Comprehensive inspection book management for the system group.
- j). 'Services'
Various services for the inspection book and for configuration.
- k). 'Print'
A screenshot of the screen is printed.
- l). 'Configuration'
Configuration settings for all data in the system group screen.
- m). 'Back'
Return to main group screen.

- a). Calling up of the available layouts in this system group (option must be released, see the 'layout programming' section)
- b). - g). Commands described previously (Points b-g) can be directly executed

h). 'Timer' Configuration menu for Timer 1 and Timer 2

Configuration TIMER 1 (week timer)

Configuration TIMER 2 (locked days)

The screenshot displays the 'CGVision V6.30' interface. At the top, the 'EATON' logo is visible. Below it, the 'Timer 1 (week timer: yellow=on)' section shows a grid with columns for days of the week (Sunday to Saturday) and rows for time intervals from 0:00 to 24:00. The grid cells are yellow, indicating the timer is 'on'. Below this is the 'Timer 2 (blocked days: grey=blocked day)' section, which shows a monthly calendar grid from January to December. The grid cells are yellow, indicating the timer is 'on'. On the right side of the interface, there are buttons for 'Print', 'Configuration Timer 1', 'Configuration Timer 2', and 'Back'. At the bottom, there is a status bar with the text 'Thursday, 03.05.2018 08:43:55' and a page number '7'.

TIMER 1:

Timer 1 enables circuits or luminaires programmed for this to be switched on (ON = yellow button) or switched off (OFF = grey button) for the required times. The configuration is carried out via the 'Configuration Timer 1' button.

TIMER 2:

Timer 2 enables the circuits or luminaires with maintained light programmed for this to be switched off for specific days, for example on weekends or bank holidays when the building is unoccupied or not in operation. Configuration is carried out with the 'Configuration Timer 2' button. (ON = 'yellow' button, OFF = 'grey' button).

i). 'Inspection book' Comprehensive inspection book management for each system group

The screenshot shows the 'Logbook Group 1 ZBS' application. At the top, there are filters for 'All' (circled in red), 'Date' (01.01.2001 - 03.05.2018), 'Time' (00:00 - 23:59), and 'Device' (All). Below these is a table of log entries. A 'Selection' button is circled in red, and a red arrow points from it to a 'Logbook Events' dialog box. The dialog box contains a list of selected events, such as 'Start of manual function test', 'Start of automatic function test', 'End of function test', 'Deep discharge protection', 'Reset deep discharge protection', 'Blocking (LON / BMS) Start', 'Blocking (LON / BMS) End', and 'Communication failure start device'. The dialog has 'OK', 'Selection Delete', and 'Cancel' buttons at the bottom.

The inspection book offers a wide variety of functions. For example inspection book entries can be called up via selection (e.g. only display of 'luminaire fault DC'). This enables clear, concise querying of events. Selection according to events is possible in the upper left area.

After selecting events, click the 'OK' button to confirm and to display these in the list. Several events can be selected, and this is displayed by being marked blue.

With display of the 'Luminaire fault DC' event the corresponding luminaire, selected with the line (dark blue), is displayed in a separate notification window:

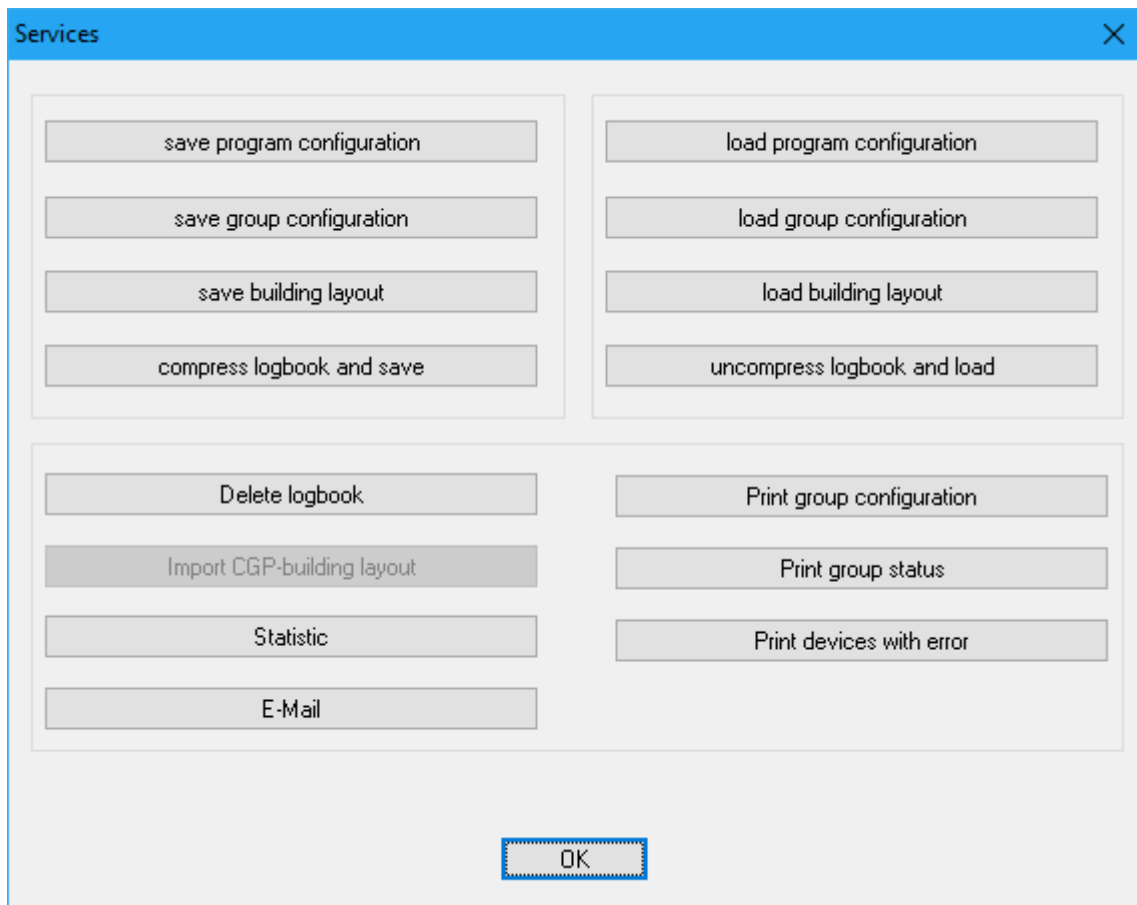
The notification window titled 'Leuchtenstörung' shows the following information: SKU: 1/5 SK: 1, 3: SL 21011 CG-S, 7: SL 21011 CG-S, and 8: SL 21011 CG-S. An 'OK' button is located at the bottom of the window.

Furthermore, inspection book entries can also be selected according to date and time, for example to check what has occurred on a particular day.

The 'Commentary' button enables commentaries to be added when printing out the inspection book.

The buttons 'Save', 'Open' and 'Print' enable the inspection book to be saved to the hard drive, a saved inspection book on the hard drive can be opened, and selected inspection book entries can be printed out.

j). 'Services'



The 'Services' submenu in the system group screen enables:

- The inspection book to be compressed and saved, for example to external data carriers
- A saved inspection book to be reopened or deleted
- With 'Save program configuration' and 'Open program configuration', current settings of CGVision such as language, number of installed systems etc. can be saved and reopened when required.
- After saving the program configuration it is automatically queried whether the individual (installed) system group configurations should also be saved.

It is also possible to save the installed system group configurations separately to hard disk or external data carriers or to reopen these and print them out if required. For this purpose use the 'Save group configuration' or 'Open group configuration' buttons.

IMPORTANT!:

Please note that when a group configuration is opened the current configurations are overwritten. We recommend previously saving the current group configuration to hard disk.

-With the optionally available layout programming (licence), it is possible here to save the layout programming to hard disk or to reopen if required.

-Various information can be printed via the 'Print' buttons:

- Print group configuration, e.g. for audit documents
- Print group status, with information for all systems in the groups
- Print faulty systems, only with information for systems with unworked faults
e.g. for printing out information for the fault elimination personnel

-Via the 'Statistics' button all installed devices, circuit change-over modules, circuits and luminaires are displayed in tabular form. The file opens only after saving as a .txt file to a random file location, e.g. C:\temp

- The 'E-Mail' button enables e-mail settings to be defined for this device group, e.g. for which events are e-mails sent to which people.

This is described in detail in the 'E-Mail' section.

k). 'Print'

A screenshot of the screen is printed

I). 'Configuration'

Configuration settings for all data in the system group screen

Configuration group

No.	Type	Name
01		
02		
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		

Group name

Group information
Group information max. 100 characters

Next battery duration test
01.01.2019 10:00

Distance 12 Month

Next function test
19.04.2018 10:01

Distance 1 Days

Password

E-Mail Configuration

Grafic mode

Layout

System address

System type ZB-S

System name

NeuronID NeuronID Address 0

Take over Delete Remove all

PC <- ZB-S PC -> ZB-S

Start learn cur. value

OK Cancel

To add an emergency lighting device, first mark the system number in the system field so that this is displayed dark blue. Now the system type can be defined in the lower area.

=== ► **With ZB-S / CG2000:**

It is **absolutely mandatory** to enter the Neuron ID, otherwise the entry is not accepted.

The Neuron ID can be automatically searched for in the network with a new scanning tool, or alternatively it can be read off the device on the yellow inspection label or in the control unit. More information can be found in the operating instructions for the device.

=== ► **With ZB96 / Euro ZB.1 / GVL24.1 / CG48:**

Here connection is via a serial COM port, and this must be preset with CGVision according to connection of the corresponding line at the COM port, e.g. COM 6.

The system number in CGVision and the device address at the device must correlate.

The device address can be set at the device at the control unit.

To accept the entry, click on the 'Accept' button.

To delete a system, mark the corresponding system in the system field (dark blue) and click on the 'Delete' button.

The next tests (function tests / continuous operation tests) can be preset for the system group in the area on the right. In addition, this screen can be individually protected with a password.

To exit the configuration, return to the system group screen via the 'OK' button.

The program must be restarted for newly created systems to be accepted. This is implemented automatically via a query. --> a 'Yes' confirmation restarts the program.

Note: it is recommended to firstly add all systems, as after this only 'one' restart is required.

To I). 'Configuration'

Opening the complete system configuration

After one or several systems have been added it must be considered that current configurations of the systems (e.g. installed circuit change-over modules / luminaires etc.) must still be opened (PC ← system, e.g. ZB-S) !

The complete system configuration is implemented solely in the 'Configuration group' screen (see below). In the 'System configuration' screen (see the following pages) only the control unit configuration is opened.



The screenshot shows the 'Configuration group' window with the following elements:

- System List:** A table with columns 'No.', 'Type', and 'Name'. Row 01 is selected and highlighted in blue.
- Configuration Fields:**
 - Group name: []
 - Group information: [Group information max. 100 characters]
 - Next battery duration test: [01.01.2019] [10:00]
 - Distance: [12] Month
 - Next function test: [04.05.2018] [10:01]
 - Distance: [1] Days
 - Password: []
 - E-Mail Configuration: []
 - Grafic mode:
 - Layout: []
- System Details:**
 - System address: [1]
 - System type: [ZB-S]
 - System name: []
 - NeuronID: [070259bf5f00] NeuronID Address [1]
- Control Buttons:**
 - Take over
 - PC <- ZB-S** (highlighted with a red box)
 - Open file
 - Save file
 - Delete
 - Remove all
 - PC -> ZB-S
 - Load from SD
 - Save on SD
 - Start learn cur. value
- Bottom Buttons:** OK, Cancel

After a device was added according to Point I) 'Configuration', this is displayed in the assigned button with type designation. This button is now active and displays the current status via colour designation according to operational state, e.g. green = operational, red = fault, yellow = function test or continuous operation test active.
 By clicking the group button the next screen opens: 'Device screen' .

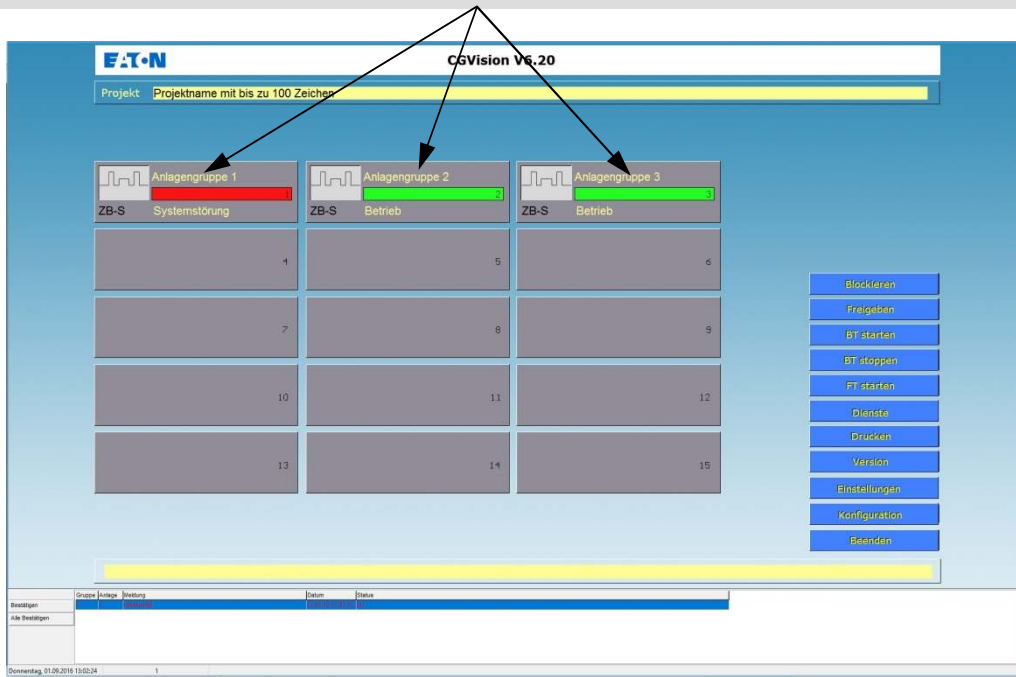
The screenshot displays the Eaton CGVision V6.30 interface. At the top, the Eaton logo and 'CGVision V6.30' are visible. Below this, there are fields for 'Group' (set to 1), 'Next FT' (4.5.2018 / 10:01), and 'Next DT' (1.1.2019 / 10:00). A yellow bar contains the text 'Information Group information max. 100 characters'. An arrow points from the explanatory text above to the first device slot (slot 1), which is highlighted in green and labeled 'ZB-S Bat' with 'Operation' below it. The main area consists of a 4x8 grid of device slots numbered 1 to 32. To the right of the grid is a vertical stack of blue buttons: Block, Release, DT start, DT stop, FT start, Manual reset, Timer, Logbook, Services, Print, Configuration, and Back. At the bottom, there are fields for 'Group 1' and 'Type ZB-S'. Below these is a table with columns for Group, System, Message, Date, and Status. The table has two rows: 'Acknowledge' and 'Acknowledge all'. The footer shows the date and time: 'Thursday, 03.05.2018 16:14:13' and the page number '2'.

3.3.2 Extended explorer view (tree structure):

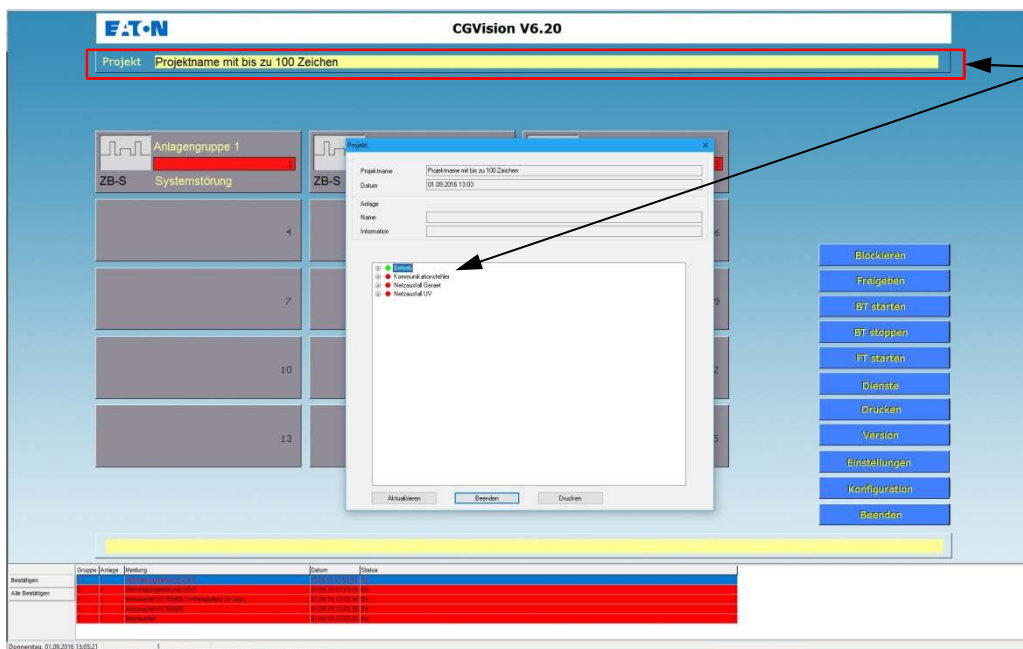
The classic view in the CGVision only allows the display of the sum status of a group, i.e. in case of different errors a "system fault" is displayed. To view the detailed errors, you must navigate to the plant group or device mimic.

An extended explorer view allows a display of all devices in the CGVision with the display of all errors.

Example: Classic view of 3 device groups with the sum info:

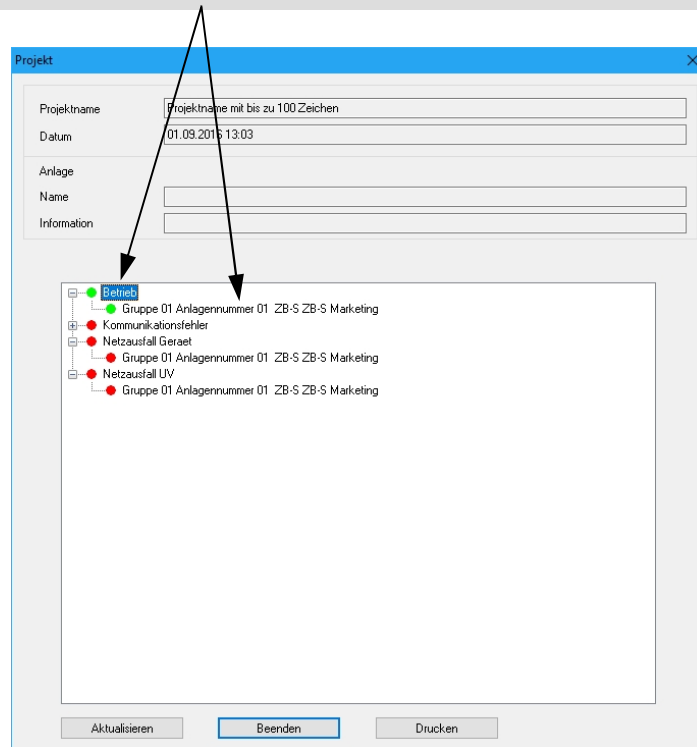


By clicking with the right mouse button in the yellow information fields in each image, the explorer view opens in the form of a tree structure. In this view, all the different status information of the devices that are currently pending is displayed first:

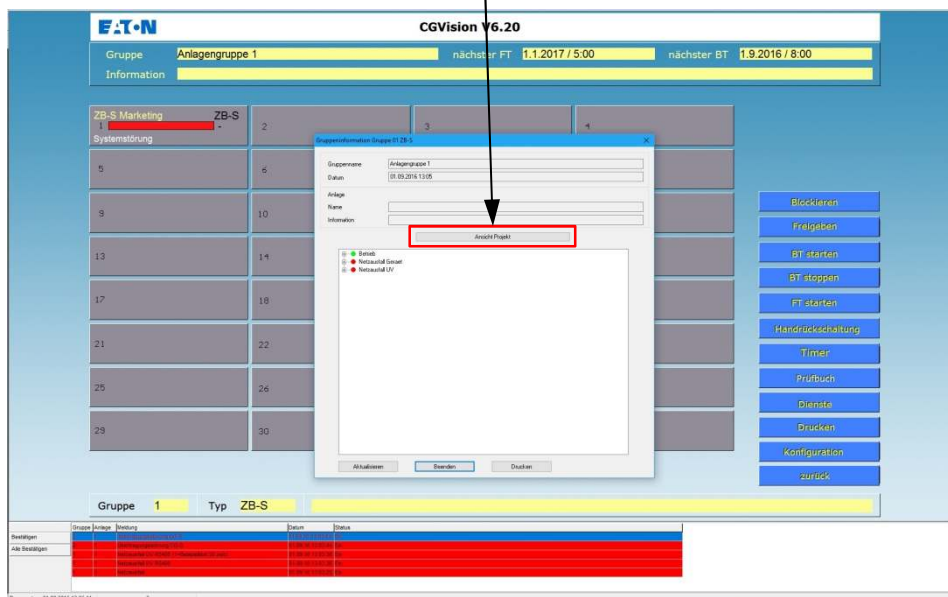


With right Mouse button, the explorer view opens

Durch Klick auf die linksstehenden + Zeichen der Statusinformationen, öffnen sich die Detailinformationen der einzelnen Geräte, mit Gerätegruppennummer 1-15, Geräteadresse 1-32 und der Gerätetyp, die diesen Status haben



Öffnet man die Explorersicht aus dem Gruppenbild oder dem Gerätebild heraus, werden nur die Informationen dieser Gruppe oder des Gerätes angezeigt. Über die Schaltfläche „Ansicht Projekt“ können die Informationen aller Geräte in der CGVision eingeblendet werden.



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E-Mail Info-n@ceag.de

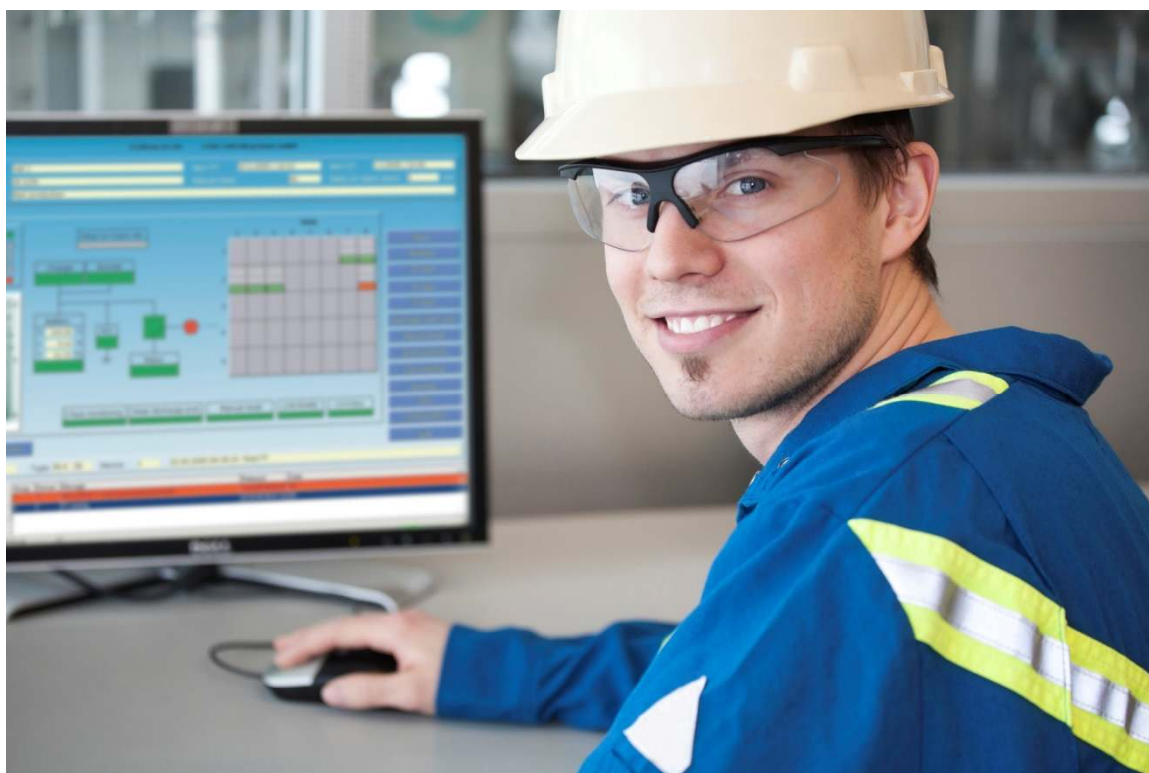
400 71 347 387(M) – Section 3 / 26/11/18/ CE
-Technical alterations without notice!-

Installation and operating instructions
Visualisation and monitoring software
CGVision and CEAG OPC server

For the monitoring and control of
CEAG emergency lighting systems

CGVision from V6.30

400 71 347 387 (M)

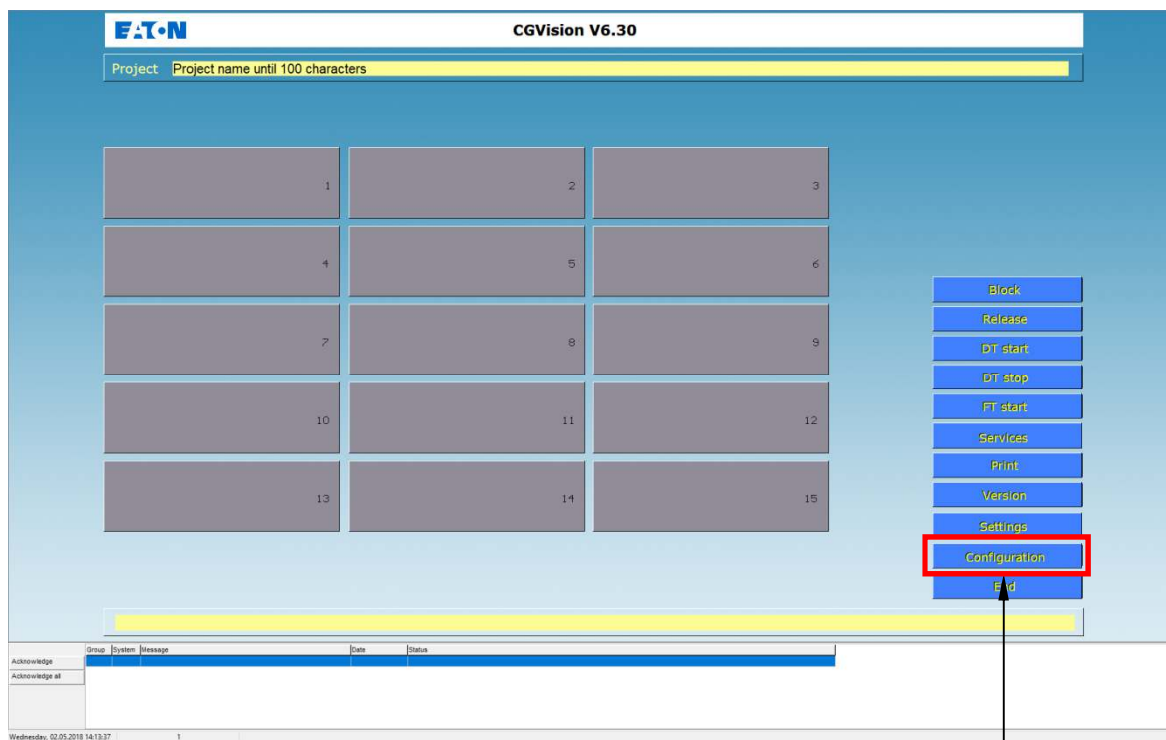


Section 4
ZB-S device family

4 ZB-S device family

4.1 Configuring a ZB-S system group

4.1.1 Configuring a ZB-S system group:



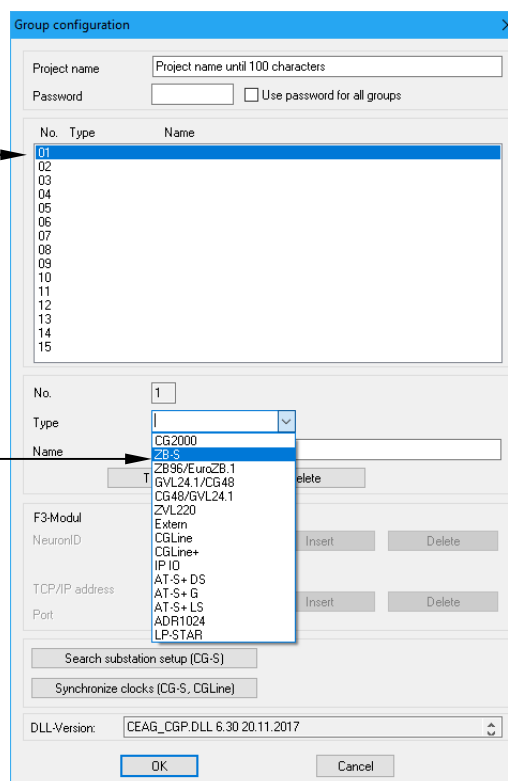
A new device family, e.g. ZB-S, can be created via the 'Configuration' menu.

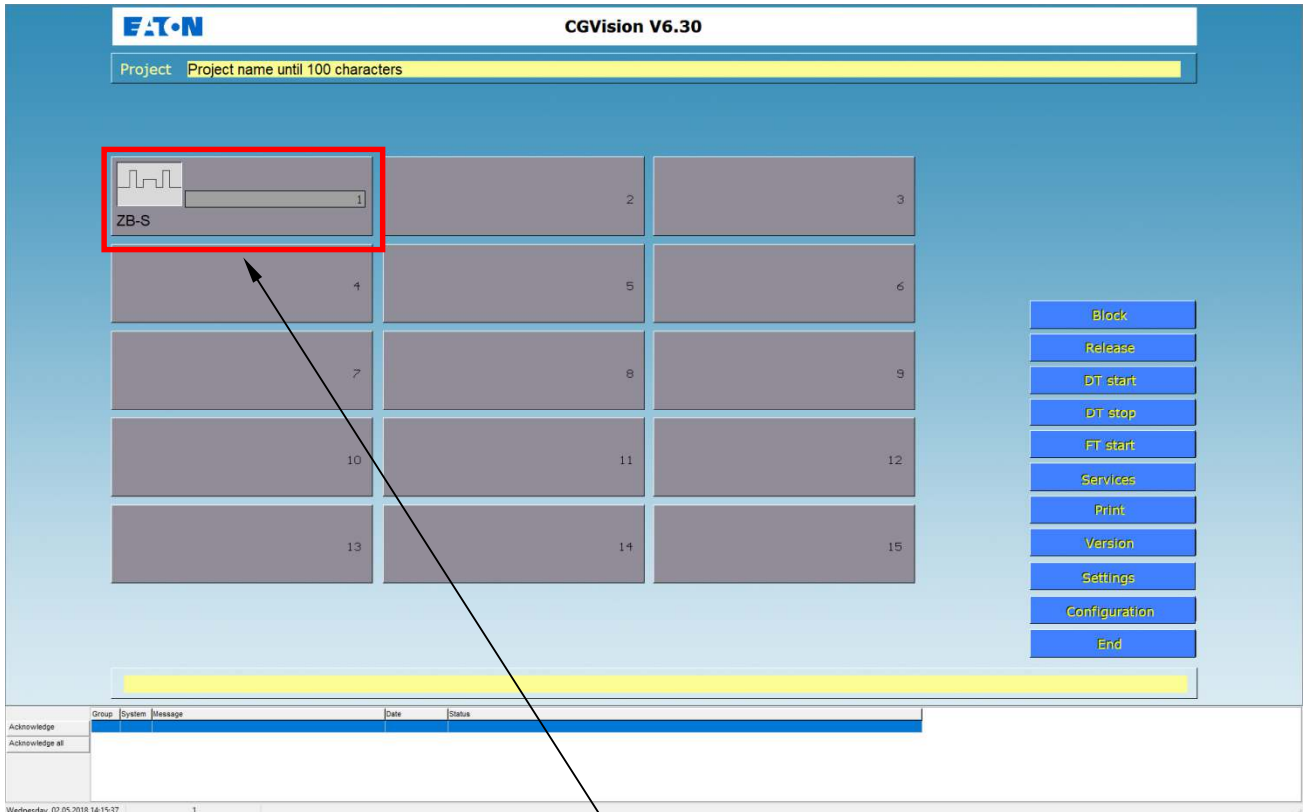
The group configuration menu then appears:

a) In the group selection window a system group can be defined by selecting the corresponding group number (marked blue)

b) In the 'Type' drop-down menu the system type 'ZB-S' can be selected and a system group name can be assigned

c) Confirm with 'Accept', define further groups or exit with 'OK'





The system group has now been added. If this group is clicked on, the system group screen is displayed.
Up to 32 devices can now be created via the 'Configuration' menu



The system configuration menu then appears:

a) In the device selection window a system can be defined by selecting the corresponding device address (marked blue)

Important: the device address must correspond with the address of the ZB-S!
(see point c)

b) ZB-S system type

c) The 12-character Neuron ID of the device must now be entered.

1. Via the new search tool (network scan) as described below

2. Manual entry

The Neuron ID can be read out in the control unit menu 'Basic settings' → 'Connection to GLT'.

Here the device address for point a) can also be read out or set.

Confirm with 'Accept', add further groups in the same way or exit with 'OK'

Automatic restarting of CGVision is now required.

No.	Type	Name
01		
02		
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		

System address: 1
System type: ZB-S
System name:
NeuronID:
NeuronID: NeuronID Address: 1

Buttons: Take over, Delete, Remove all, PC <- ZB-S, Open file, Save file, PC -> ZB-S, Load from SD, Save on SD, Start learn cur. value, OK, Cancel

about the first entry of the Neuron ID via the new search tool:

The simplest method to add systems in CGVision is offered by a new search tool that carries out a network scan on the CG-S bus and lists all systems with a Neuron ID. To start the search tool, the desired device address (in the example address 01, marked blue above) must be selected and then the 'NeuronID' button clicked on.

Please note, with use of a CG-S/USB interface box:

the new search tool only functions with the CG-S/USB interface box with blue end caps.

The CEAG search tool opens in a new window

1. The LON interface must be set to xxx0, e.g. with LONUSB to LONUSB0, according to which interface is used. In the example below with LONIP, the interface must therefore be set to LONIP0.
The length must be set to 0, the subnet to a number between 1 and 255 and the node to between 1 and 127
-Save these settings by clicking on 'Accept'.

2. 'ZB-S' must be activated

CEAG LON-Suchtool 22.05.2014 V1.07

Scan

Wait for service PIN

Store result

Load file

End Wait for service PIN

Send Wink to selected node

Delete result

LON-Interface: LONIP0

Length: 0 1 3 6

Subnet: 255

Domain ID:

Node: 127

Apply

Show: All

CG2000 ZB-S

REL AT-S+

LP-STAR

Scan for Subnet/Node

Subnet: 0

Node: 0

Scan result

Neuron-ID	Prog-ID	Name	System adr.	Domain 0	Subnet 0	Node 0	Domain 1	Subnet 1	Node 1
-----------	---------	------	-------------	----------	----------	--------	----------	----------	--------

System number 0 CG2000 0 ZB-S 0 AT-S+ 0 Systems found 0

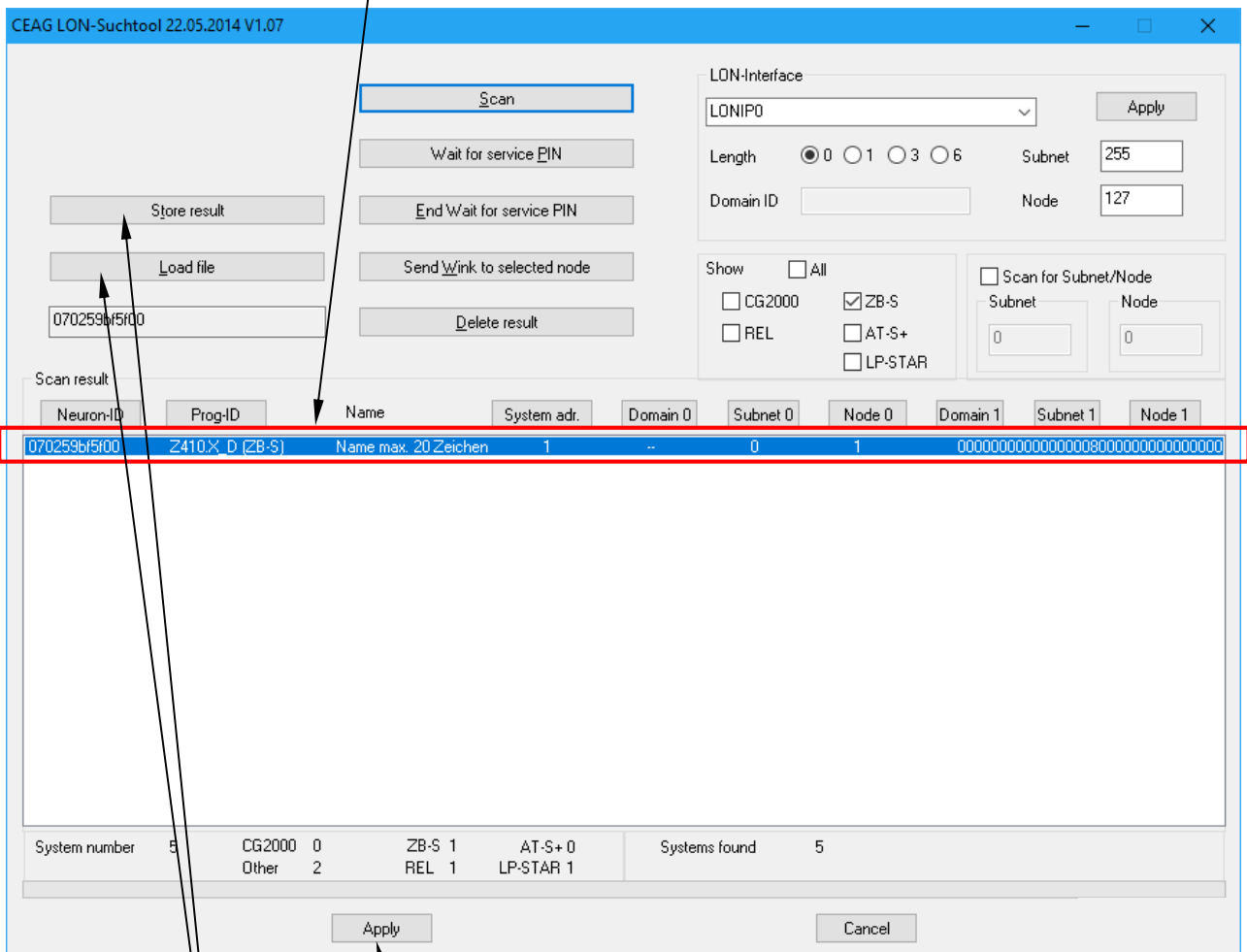
Other 0 REL 0 LP-STAR

Apply Cancel

The network scan can now be started with 'Search'. With correct bus installation, all ZB-S systems found are now listed (next screen)

The network scan may take some minutes according to the quantity of installed CG-S systems (ZB-S/AT-S+/LP-STAR/CG2000).

All ZB-S devices found are specified in the 'search results' list. As information, the Neuron ID, the software version Z410 with state, the system types ZB-S, the device name (20 characters, from the control unit) and the device address 1 to 32 are displayed. The required ZB-S with the correct Neuron ID and device address must now be selected, marked blue.



'Accept' automatically copies the NeuronID into the ZB-S configuration (next screen)

Because the network scan may take some minutes (according to the number of devices), it is possible to save this result locally via "Save results". With the next ZB-S system, the result is more rapidly loaded via 'Open file' instead of a network scan.

The NeuronID is now automatically transferred for the system. By clicking on 'Accept' a new device can be added in a similar way. When all ZB-S's are added to this group, clicking on 'OK' saves all modifications. A CGVision restart then follows.

After the CGVision restart the added devices are displayed with type designation in the assigned button. This button is now active and displays the current status via colour designation according to operational state, e.g. green = operational, red = fault, yellow = function test or continuous operation test active. By clicking the group button the next screen opens, 'Device screen' .

4.2 'ZB-S device screen'

4.2.1 Structure of the device screen:

The screenshot shows the CGVision V6.30 interface for a ZB-S device. At the top, there are fields for Group name, System name, and Information. Below this is a status bar with indicators for Operation, FT, DT, Blocked, and Failure. The main area contains a battery status section with a diagram of the battery and charger, a 'Circuits' table, and various control buttons. At the bottom, there is an alarm list table.

Group name and system name (up to 20 characters each)

Field for supplementary information (up to 100 characters)

Displays next function test / continuous operation test
 FT = function test
 BT = continuous battery operation test

Direct status messages of device

Button for commands or configuration settings

Installed circuit change-over modules on max. 5 back planes. Grey field signifies 'not installed'. To display installed circuit change-over modules, these must first be opened with the 'Configuration' menu in the Main group picture via the 'PC ← ZB-S' button.

Alarm list with confirmation option, identical to the main group screen

Group	System	Message	Date	Status

4.2.2 Function buttons:

Button functions for command or configuration settings

The screenshot displays the FAT-ON CGVision V6.30 software interface. At the top, there is a header with the logo and version. Below it, a status bar shows system information: Group, System, Information (CGLine+ Self-contained luminaires with central monitoring), Next FT (4.5.2018 / 10:01), Next DT (1.1.2019 / 10:00), Manual reset (No), and Delay on mains return (0 min). The main area is divided into several sections: 'Operation' with checkboxes for FT, DT, Blocked, and Failure; a 'Battery' section with a diagram showing 'Charger', 'Booster', 'Battery', 'ISO', and 'Mains' components, along with a 'Battery capacity' bar and 'Delay on mains ret.' field; a 'Circuits' table with 8 columns and 5 rows; and a '3 phase monitor' section with 'Deep discharge prot.', 'Manual reset', 'LON RS485', and 'CG-S Bus' buttons. On the right side, a vertical column of blue buttons includes: Block, Release, DT start, DT stop, FT start, Reset deep discharge, Manual reset, DLS/TLS/3PhW, LON-switch, Services, Print, Configuration, and Back. At the bottom, there is a 'Save on SD' button and a footer with 'Group 1', 'Type ZB-S ZB', 'System 1', and a message log table.

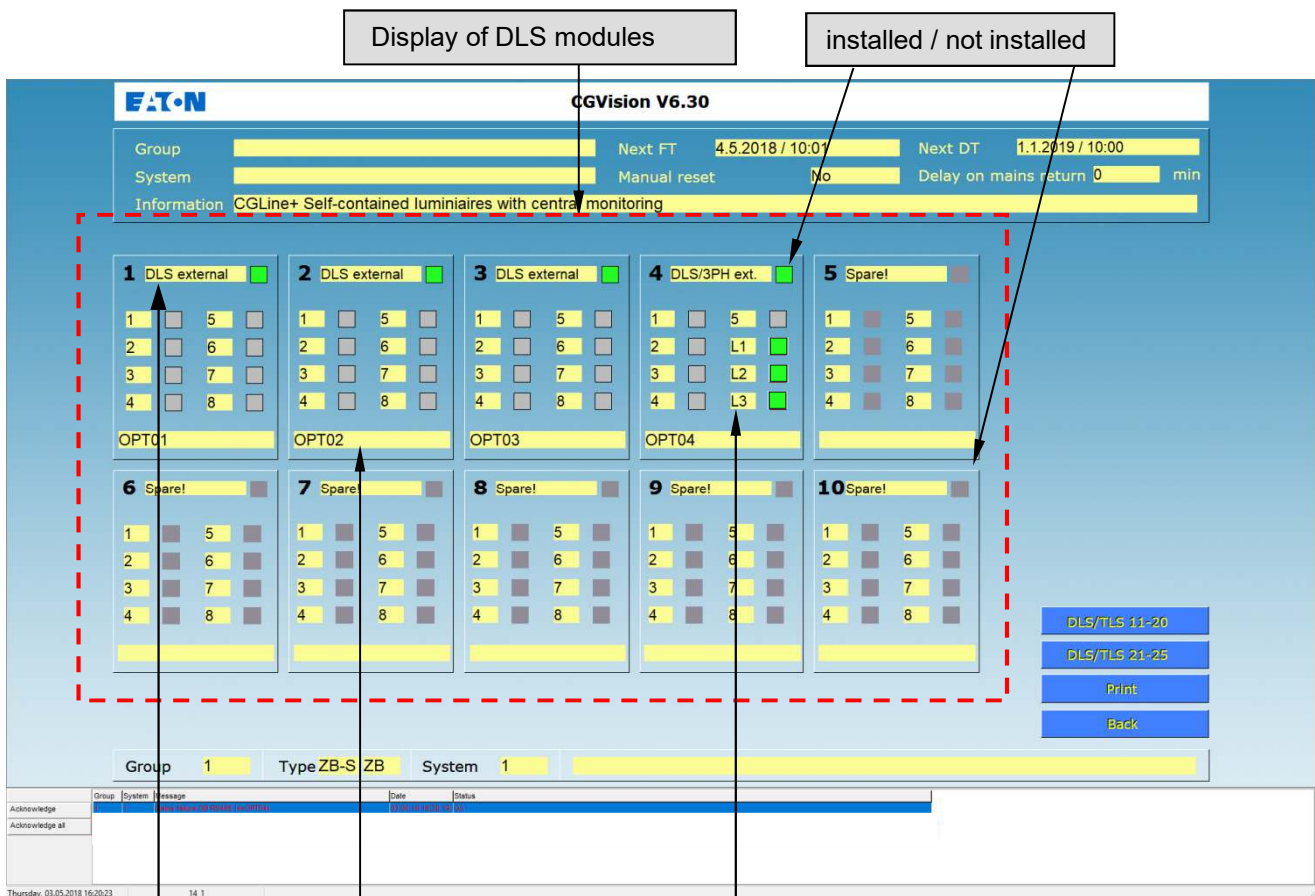
- a). 'Layout'
Calling up of the first available luminaire layout of the device
(option must be authorised via a dongle, available separately.)
- b). 'Block'
The device is blocked
- c). 'Release'
The blocked device is released
- d). 'Start BT'
A BT test (continuous operation test) is carried out for the device.
- e). 'Stop BT'
BT test is aborted for the device.
- f). 'Start FT'
An FT test (function test) is carried out for the device.
- g). 'Confirm total discharge protection'
Confirmation of a total discharge protection
- h). 'Manual resetting'
This enables the device responding to manual resetting to be reset.
- i). 'DLS/TLS/3PhW'
Menu for configuration of DLS / TLS / and 3-phase monitor functions
- j). 'LON switch'
Menu for connecting external LON switches
- k). 'Services'
Various services for the inspection book and for configuration
- l). 'Print'
A screenshot of the current screen is printed
- m). 'Configuration'
Configuration settings for all data on the device screen
- n). 'Back'
Return to system group screen

a). Calling up of the available layouts in this system group
(option must be released, see the 'layout programming' section)

b). - h). Commands described previously (Points b-g) can be directly executed

i). 'DLS/TLS/3PhW'

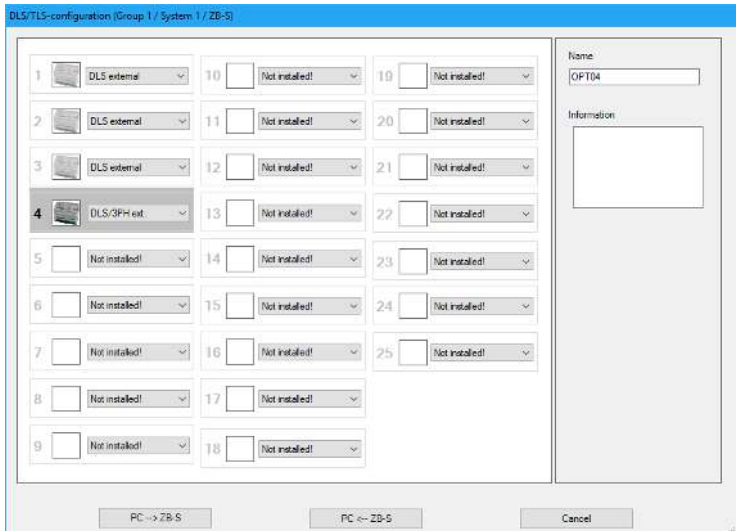
Menu for configuration of DLS / TLS / and 3-phase monitor functions



DLS module with 8 inputs

DLS module with 5 inputs and 3-phase monitoring

Open the configuration window by clicking on the DLS name



DLS configuration:

DLS modules, due to hardware, can only be installed at the device.
Subsequently installed modules can be 'opened' via PC ← ZB-S by CGVision.
With CGVision, in the DLS / TLS configuration the name and supplementary information can be entered.

about i). 'DLS/TLS/3PhW'
 Selection of DLS modules 11 - 25

Selection of the
 DLS modules 11 - 25

DLS modules 11 - 20

DLS modules 21 - 25

j). 'LON switch' Menu for connecting external LON switches

EATON CGVision V6.30

Group: [] Next FT: 4.5.2018 / 10:01 Next DT: 1.1.2019 / 10:00
 System: [] Manual reset: No Delay on mains return: 0 min
 Information: CGLine+ Self-contained luminaires with central monitoring

LON-switch

1	Spare!	[]
2	Spare!	[]
3	Spare!	[]
4	Spare!	[]
5	Spare!	[]
6	Spare!	[]
7	Spare!	[]
8	Spare!	[]
9	Spare!	[]
10	Spare!	[]
11	Spare!	[]
12	Spare!	[]
13	Spare!	[]
14	Spare!	[]
15	Spare!	[]
16	Spare!	[]

Group: 1 Type: ZB-S ZB System: 1

Buttons: Print, Configuration, Back

Thursday, 03.05.2018 16:23:17

Configuration of external LON sensors:

Up to 16 external LON sensors (e.g. switch) can be assigned. Assignment, contrary to ZB-S, is independent of the assignment of the DLS addresses.

To be able to use the 'LON switch' function in the ZB-S device in the menu:
Basic settings // Connection to GLT
 --> *LON switch: YES*
 must be activated.

This can also be activated in CGVision under I.) 'Configuration' of the device.

An integration of external LON sensors must be carried out by an authorised LON Integrator.

LON-switch (Group 01 / System 01)

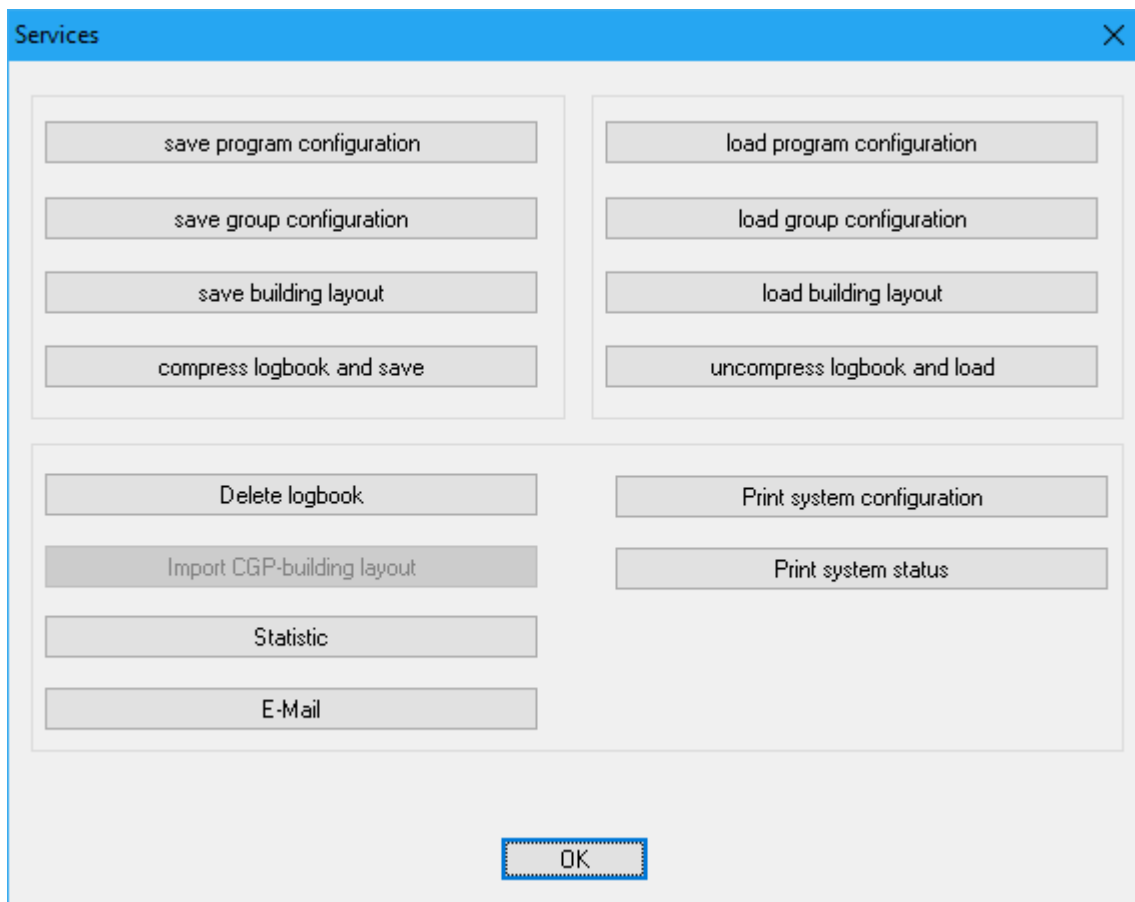
No.	inst.	Name
1	-	
2	-	
3	-	
4	-	
5	-	
6	-	
7	-	
8	-	
9	-	
10	-	
11	-	
12	-	
13	-	
14	-	
15	-	
16	-	

No. [1]
 Name []

Buttons: Take over, Delete, OK, Cancel

k). 'Services'

Various services for the inspection book and for configuration



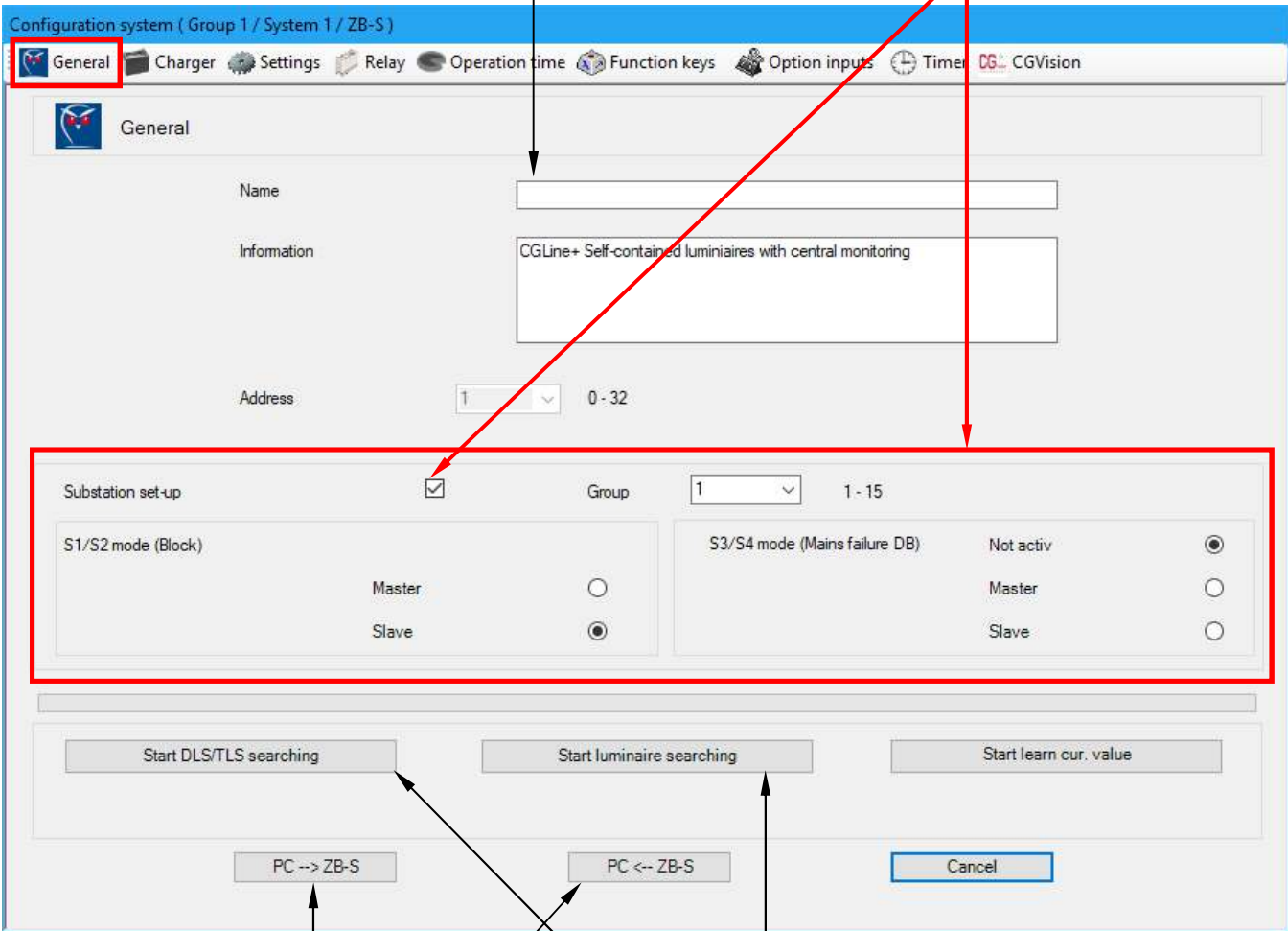
The 'Services' menu is identical with the 'Services' menu in the system group screen, apart from clicking on Status only relates to the individual system.

You can find a detailed description to the 'Services' menu for saving and opening of program configurations/group configurations in Section 2.2 'System group screen', j) 'Services'.

m). 'Configuration of system' (device)
a). General

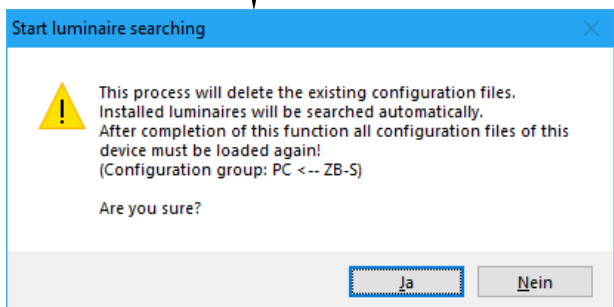
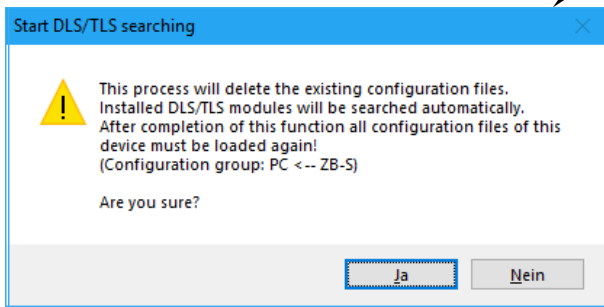
Entry of device name and supplementary information

The substation setup has to be deactivated, if CGVision is used!
Mailfunctions could occur!

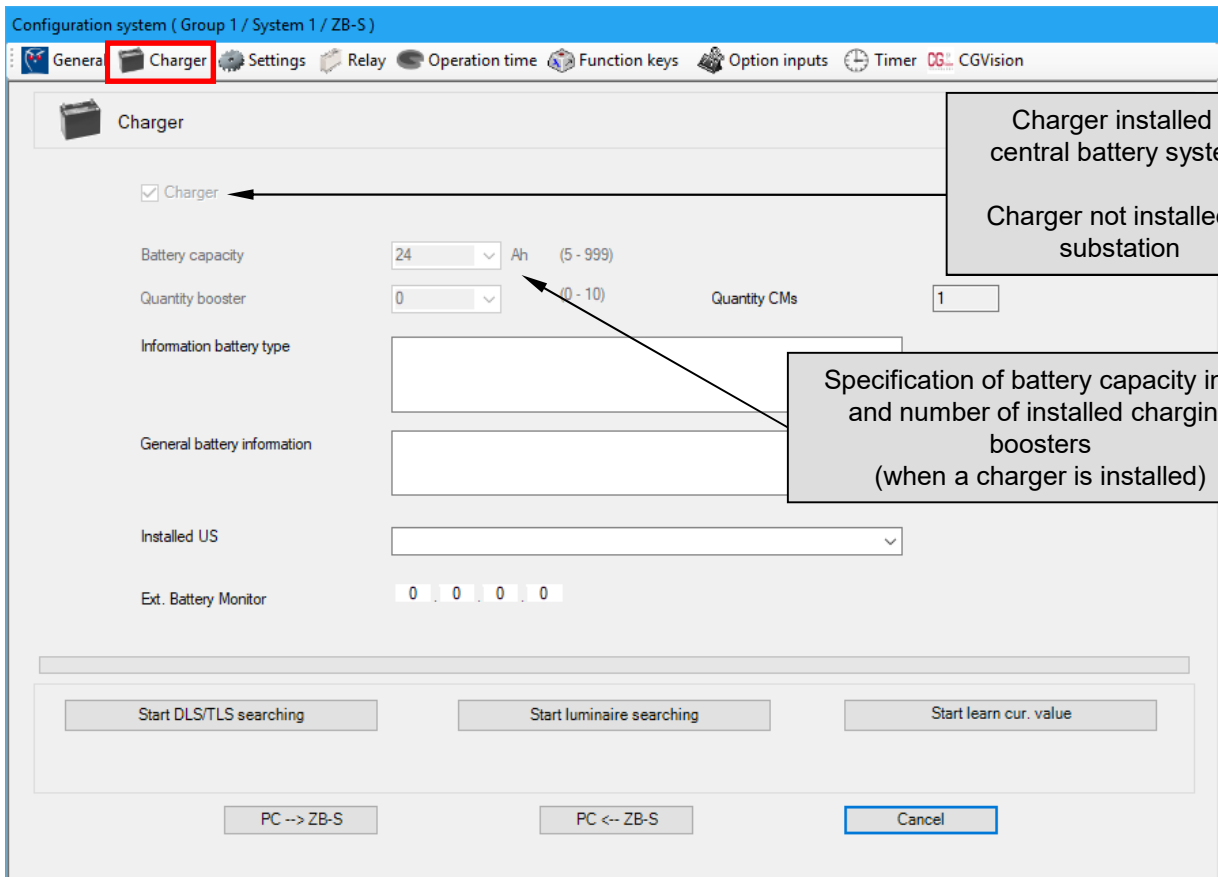


With the button 'PC --> ZB-S', all modified settings for this screen can be sent to the device. With the button 'PC <-- ZB-S', the current configurations in the device (control unit!) can be downloaded to the PC.
To open the complete system configuration, the configuration must be opened via the system group screen

Option: DLS/TLS search and luminaire search
Buttons for starting 'DLS/TLS search' and 'luminaire search' as possible on the device.
It must be considered though that after implementing these functions the configuration data of the device must be reopened. The following windows appear: With DLS search luminaire search



about m. 'Configuration of system' (device)
b). Charger

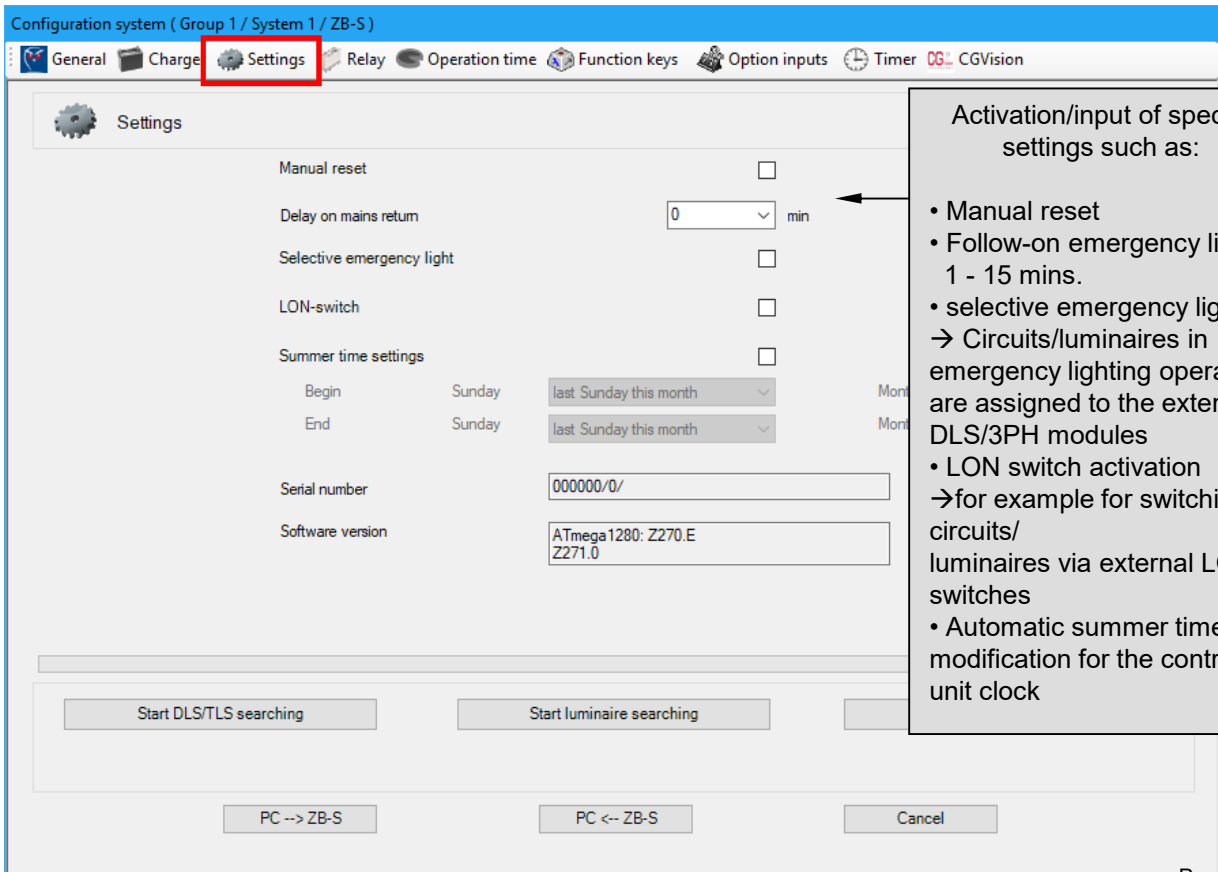


Charger installed =
central battery system

Charger not installed =
substation

Specification of battery capacity in Ah
and number of installed charging
boosters
(when a charger is installed)

c). Settings

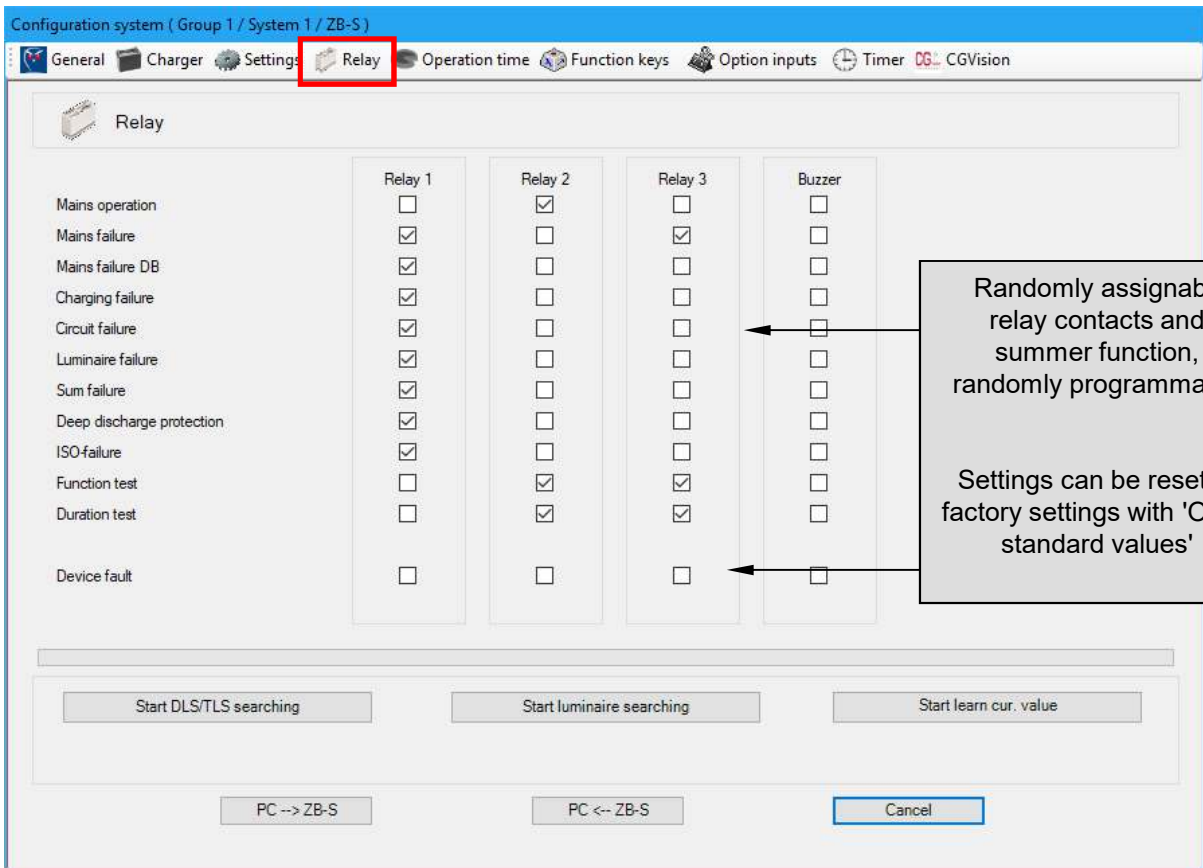


Activation/input of special
settings such as:

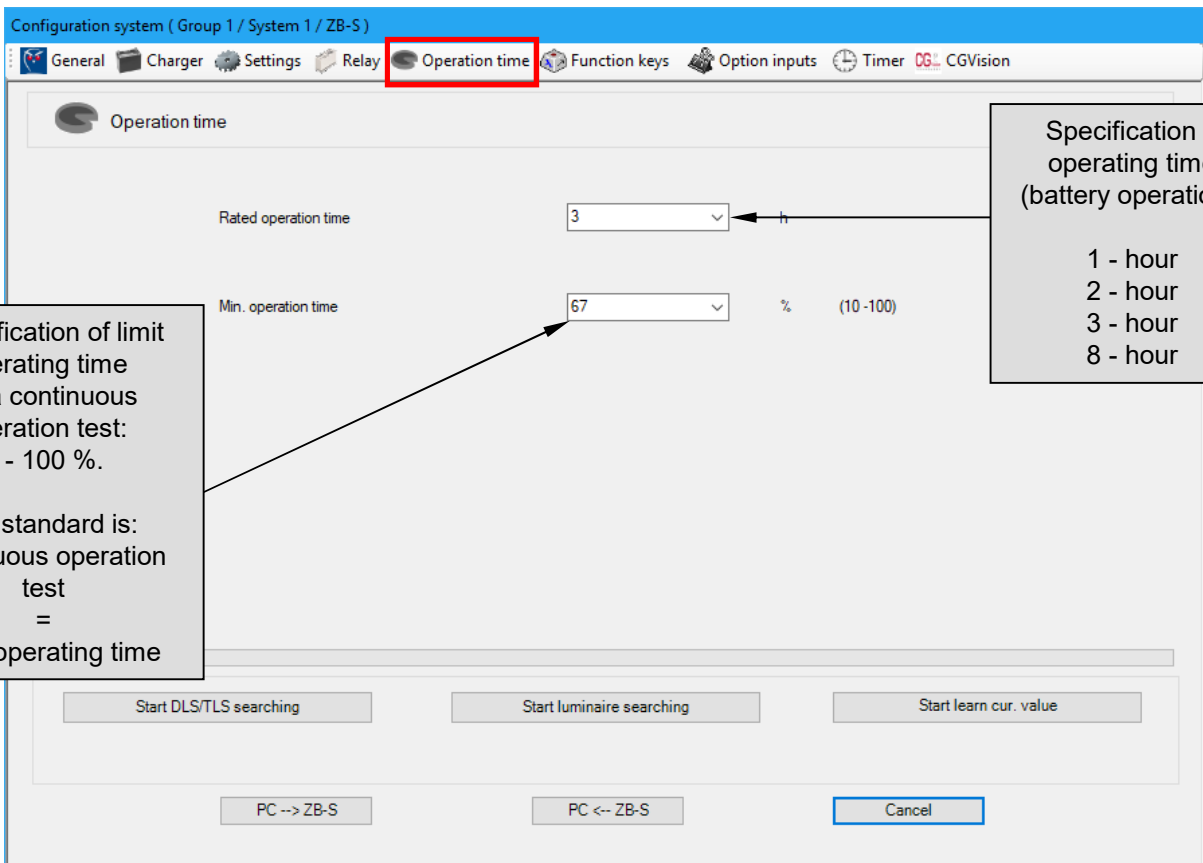
- Manual reset
- Follow-on emergency light 1 - 15 mins.
- selective emergency light:
→ Circuits/luminaires in emergency lighting operation are assigned to the external DLS/3PH modules
- LON switch activation
→for example for switching circuits/
luminaires via external LON switches
- Automatic summer time modification for the control unit clock

about m. 'Configuration of system' (device)

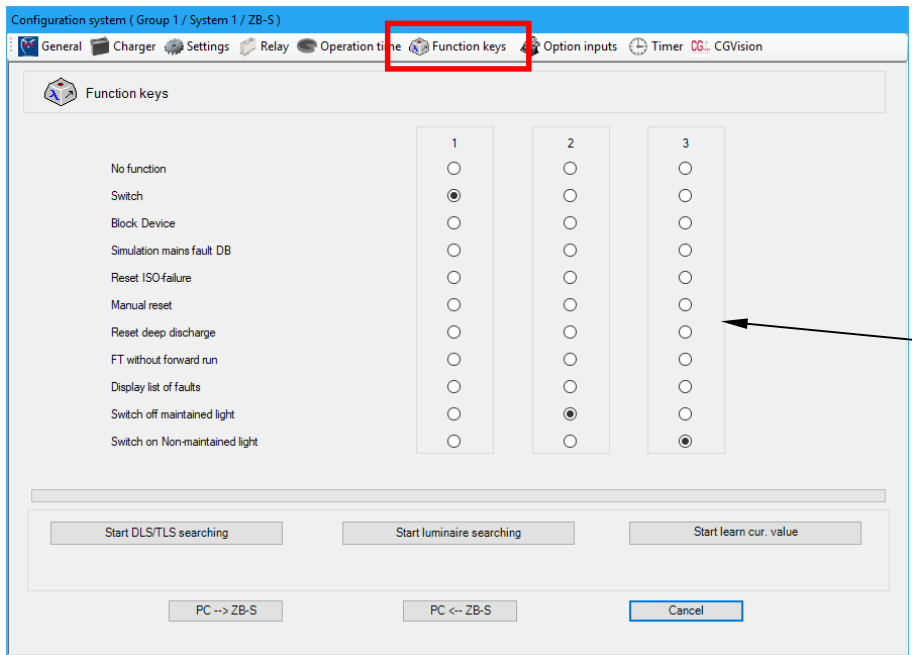
d). Relay



e). Operation time



**about m. 'Configuration of system' (device)
f). Function keys**

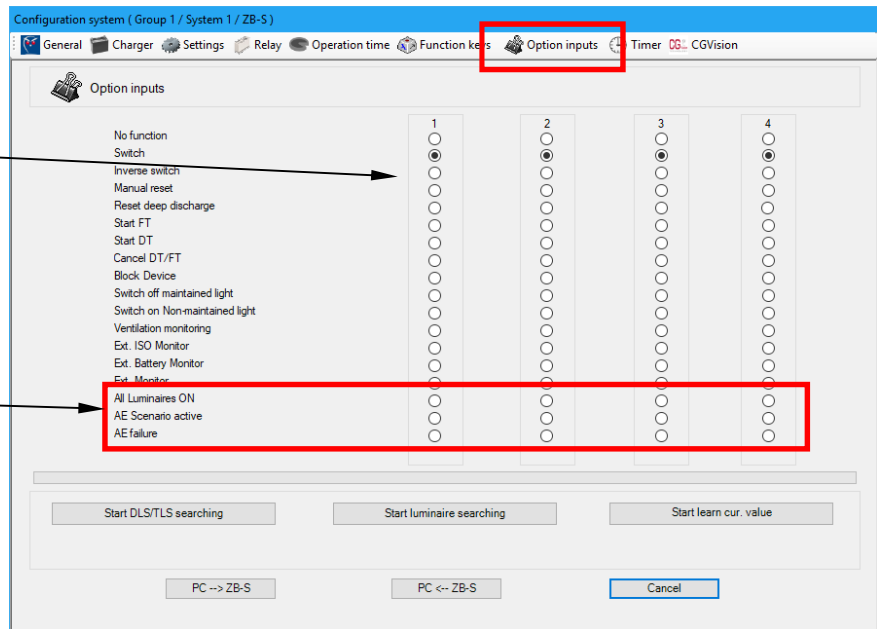


Settings for the randomly assignable function buttons on the control unit

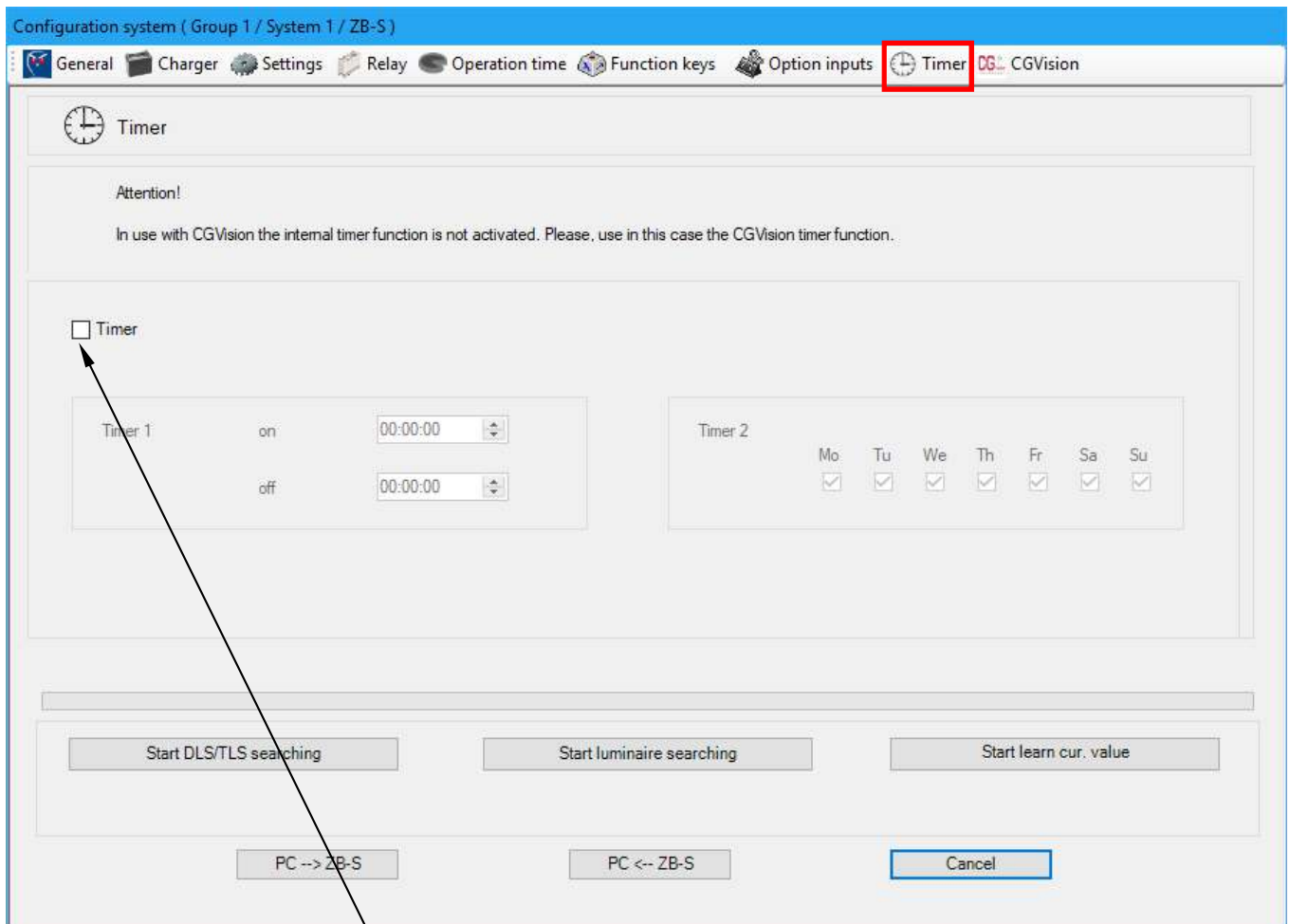
g). Option inputs

Settings for the randomly assignable zero-potential option inputs on the control unit

If an AECU is connected to the ZB-S, three option inputs must be assigned for:
 - All luminaires ON
 - AE Scenario active
 - AE-failure
 For more details read the manual of AE-CU




about m. 'Configuration of system' (device)
f). Timer

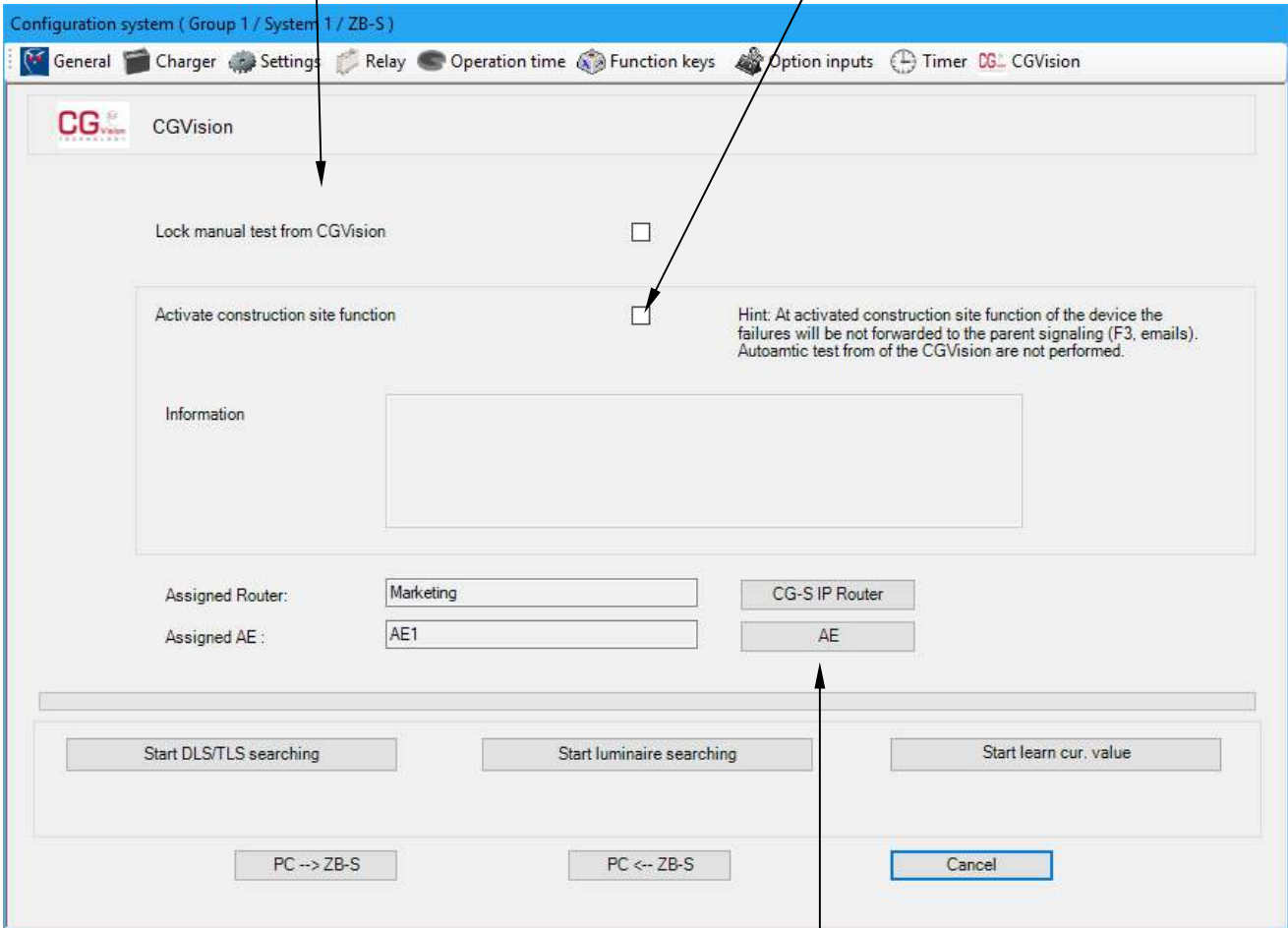


With operation with CGVision the internal timer function of the ST-S control unit is deactivated. Timer control is implemented in CGVision according to Section System group screen h.) Timer

**about m. 'Configuration of system' (device)
g). CG Vision**

This function deactivates the manual tests (FT and BT) of the CGVision. The buttons in the mimic are hidden. Manual tests directly on the system are still possible.

If the construction site function is activated, automatic tests are no longer carried out by CGVision. This is used if work is being carried out on installations or in the areas. A construction site sign then appears in the system pictures:




An IP router administration and an AECU administration (Adaptive Evacuation Control Unit) can be set up here. For more information see the following pages

4.2.3 CG-S/ IP-Router administration

The CG-S/IP router administration enables a clear display of the CG-S/IP routers installed in the network. The CG-S/IP routers can then be assigned to installations in order to locate them quickly.

The data of the installed CG-S/IP routers can be created in the "CG-S/IP router" menu. The corresponding configuration server can be marked with a check mark.

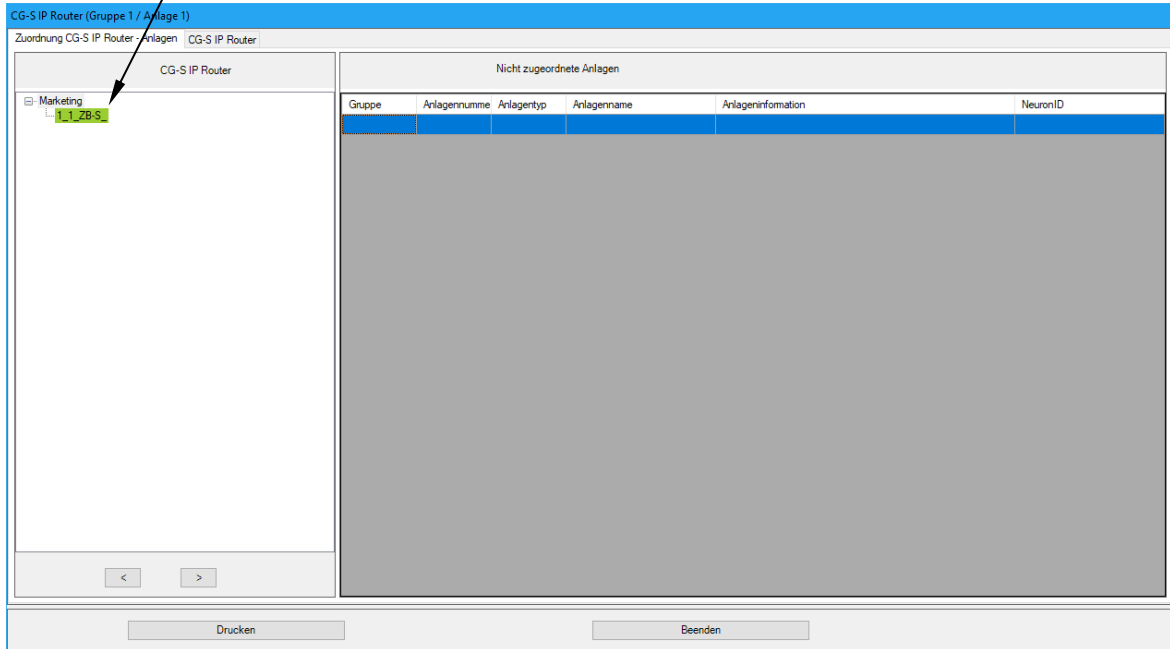
After "Accept" the next line can be activated in the right field to create the next CG-S/IP router.

The screenshot shows the configuration interface for a CG-S/IP Router. On the left, there are input fields for 'Typ' (set to 'CG-S / IP-Router- 1P V2'), 'Lokaler Hostname' (set to 'Marketing'), 'Information' (set to 'CG-S/IP-Router zur Musteranlage'), 'Gebäude' (set to 'Halle 1'), 'Standort' (set to 'Raum 1152'), 'ID' (set to 'Seriennummer Gerat'), 'MAC address' (set to '00-00-00-00-00-00'), 'DHCP' (unchecked), 'TCP/IP Adresse' (set to '192.168.1.250'), 'Mask' (set to '255.255.255.0'), and 'Gateway'. The 'Konfig. Server' checkbox is checked. At the bottom left, there are 'Übernahme' and 'Löschen' buttons, and a checkbox for 'Mac-Adresse als Namen verwenden'. On the right, a table is visible with the following columns: Typ, Lokaler Hostname, Information, Gebäude, Standort, ID, MAC address, DHCP, TCP/IP Adresse, Gateway, Mask, and Konfig. Server. The table is currently empty.

In the "CG-S/IP Router assignment" menu, the system can be spatially assigned to the corresponding IP router by "dragging" it with the mouse.

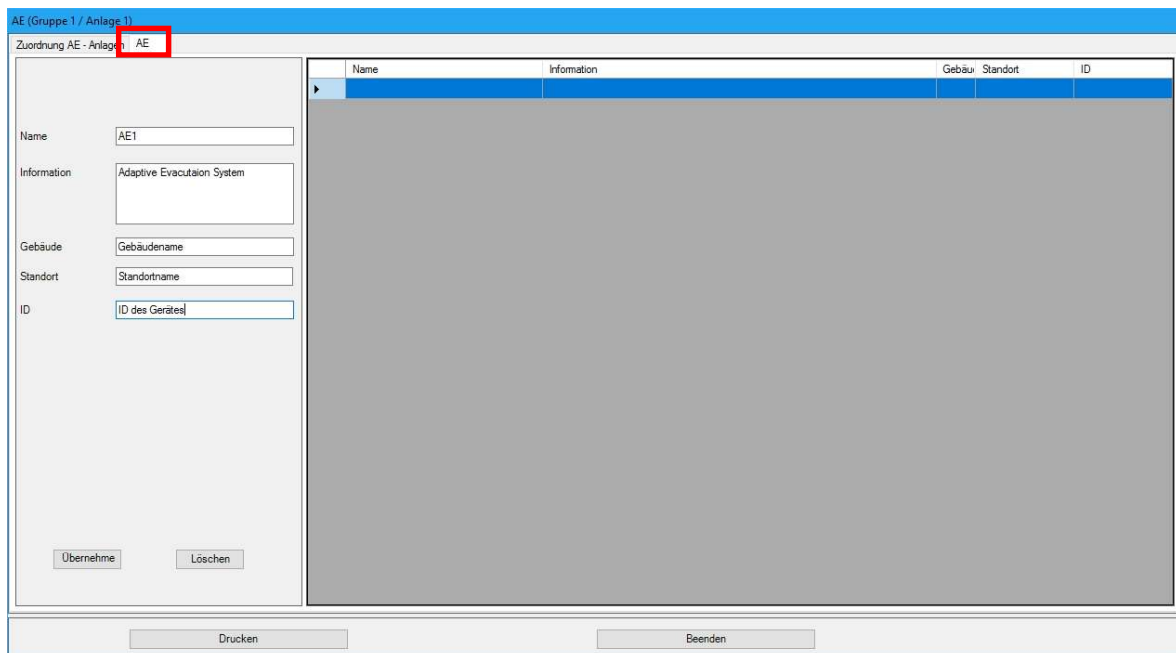
The screenshot shows the assignment interface for CG-S/IP Routers. On the left, there is a list of routers, including 'Marketing', 'CG-S / IP-Router- 1P V2', '00-00-00-00-00-00', and 'CG-S/IP-Router zur Musteranlage'. A red arrow indicates that the 'Marketing' router is being dragged from this list to the right pane. The right pane is titled 'Nicht zugeordnete Anlagen' and contains a table with the following columns: Gruppe, Anlagennummer, Anlagentyp, Anlagenname, Anlageninformation, and NeuronID. The table has one row with the following data: Gruppe: 1, Anlagennummer: ZB-S, Anlagenname: CGLine+ Self-contained luminaires with central monitoring, Anlageninformation: (empty), and NeuronID: 07025949f00. At the bottom, there are 'Drucken' and 'Beenden' buttons.

The system is then placed under the CG-S/IP router to show where the IP router is spatially installed..

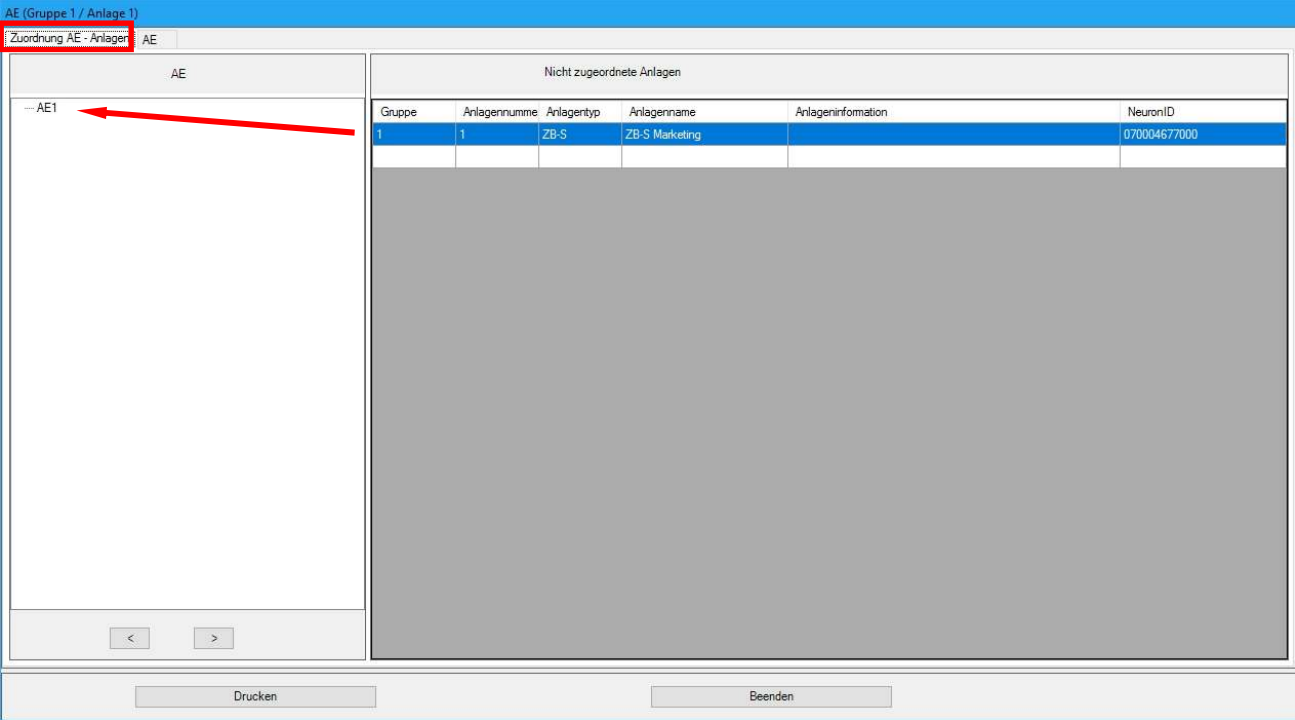


4.2.4 AECU administration

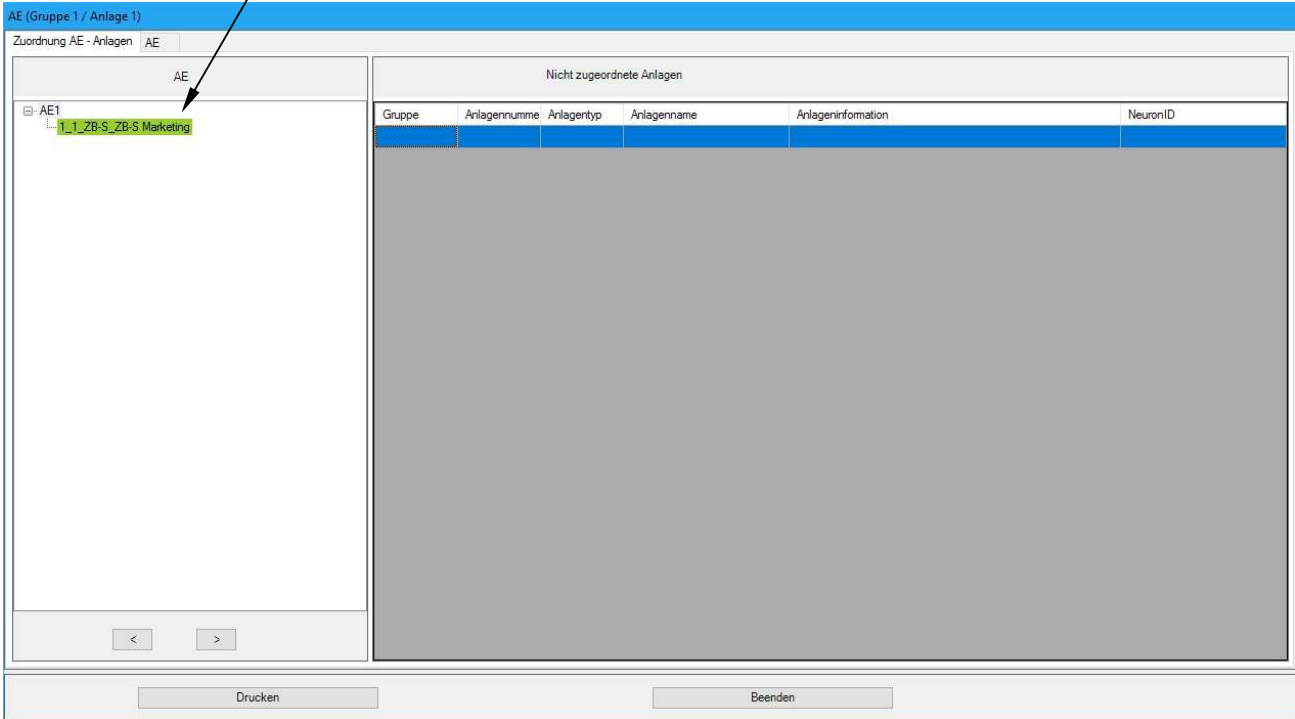
The AECU administration is structured like the CG-S/IP-Router administration. It shows which AECUs are installed in the project and to which ZB-S these units are assigned. The AECUs are created in the "AE" menu. Information can be entered here as follows



In the "CG-S/IP Router assignment" menu, the system can be spatially assigned to the corresponding IP router by "dragging" it with the mouse.



The system is then placed under the AECU to show where the AECU is spatially installed.



4.3 Circuit change-over module screen

By clicking a button the corresponding circuit level opens (circuit screen)

Installed circuit change-over modules are displayed by colour-highlighted buttons. By clicking a button the corresponding circuit change-over module level opens (circuit change-over module screen)

The screenshot displays the EATON CGVision V6.30 interface. At the top, it shows system information including Group, System, Next FT (4.5.2018 / 10:01), Next DT (1.1.2019 / 10:00), Manual reset (No), and Delay on mains return (0 min). The information section indicates 'CGLine+ Self-contained luminaires with central monitoring'.

The main interface is divided into several sections:

- Operation Status:** Includes checkboxes for Operation, FT, DT, Blocked, and Failure.
- Battery Capacity:** A green progress bar indicates the current battery level.
- Battery Data:**
 - U: 240.00 V
 - I: 0.00 A
 - T: 27.20 °C
 - K: 100 %
- Charger and Booster:** Represented by green and grey blocks respectively.
- ISO and Mains:** Represented by green blocks.
- Circuits Table:** A table with 8 columns (1-8) and 5 rows (1-5). Column 7 is labeled '2x3A CG-S' and column 8 is labeled '1x6A CG'. Both columns 7 and 8 have green highlights in row 1.
- Buttons:** A vertical stack of blue buttons on the right includes: Block, Release, DT start, DT stop, FT start, Reset deep discharge, Manual reset, DLS/TLS/3PhW, LON-switch, Services, Print, Configuration, and Back.
- Bottom Section:** Includes '3 phase monitor', 'Deep discharge prot.', 'Manual reset', 'LON RS485', and 'CG-S Bus' buttons. Below this is a 'Save on SD' button and a status bar with fields for Group (1), Type (ZB-S ZB), and System (1).

An arrow from the text above points to the '2x3A CG-S' and '1x6A CG' columns in the Circuits table.

Active circuits are displayed by colour-highlighted buttons.
 By clicking a button the corresponding circuit level opens (circuit screen)

FATON CGVision V6.30

Group Next FT 4.5.2018 / 10:01 Next DT 1.1.2019 / 10:00
 System Manual reset No Delay on mains return 0 min
 Information CGLine+ Self-contained luminaires with central monitoring

Circuits
1/7 CG-S 2x3A

Max. 20 Zeichen <input style="width: 90%; height: 20px; background-color: #90EE90;" type="text"/>	Max. 20 Zeichen <input style="width: 90%; height: 20px; background-color: #90EE90;" type="text"/>
CG-monitoring <input type="text"/>	CG-monitoring <input type="text"/>
Per luminaire set-up <input type="text"/>	Per luminaire set-up <input type="text"/>
3 Not existing <input style="width: 90%; height: 20px; background-color: #808080;" type="text"/>	4 Not existing <input style="width: 90%; height: 20px; background-color: #808080;" type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

Group 1 Type ZB-S ZB System 1

Group	System	Message	Date	Status
Acknowledge				
Acknowledge all				

Thursday, 03.05.2018 16:27:34 16

4.4 Circuit screen

Text fields for information, e.g. device, location etc.

Buttons for luminaire configuration (per luminaire) see Luminaire configuration

Displays next function test / continuous operation test and further circuit configurations

**Extended status displays for the circuit
Green = OK
Red = fault**

By clicking on the luminaire text, further luminaire texts can be called up (max. 100 characters) that were entered in configuration under 'Luminaire information'

Alarm list with confirmation option, identical to the main group screen

**Installed luminaires with NOMINAL status display (grey = off, yellow = on, red = fault)
Names (max. 20 characters) and display of switching type programming for the 2 switch inputs**

Button for circuit configuration (see circuit configuration)

**Information Luminaire 1:
GuideLed DXC 8 Watt, Mounting high 5 m! Ladder necessary!**

Name	Switch 1	Switch 2
1 GuideLed DXC oben	LON-switch 1	
2 GuideLed DXC unten	Maintained light (mains)	
3 Spare!		
4 Spare!		
5 Spare!		
6 Spare!		
7 Spare!		
8 Spare!		
9 Spare!		
10 Spare!		
11 Spare!		
12 Spare!		
13 Spare!		
14 Spare!		
15 Spare!		
16 Spare!		
17 Spare!		
18 Spare!		
19 Spare!		
20 Spare!		

4.5 Circuit configuration

With the 'Circuit monitoring' method of monitoring, deviation can be specified in %

Specification of the monitoring type for the circuit

'Overview' gives you a table of all luminaires of the circuit with specification of their programmed switching type

Circuit name and supplementary information

Circuit configuration (Group 1 / System 1)

SKU: 17 SKU-Type: SKU CG-S 2x3A

Circuit: 1 Circuit: 2

Name: Max. 20 Zeichen

Information: Max. 100 Zeichen Zusatzinformationen

Monitoring: CG-monitoring
 Current value monitoring Current value deviation: % (1-99%)
 Reserve

Switch 1

Non-maintained light

Maintained light (mains)

Per luminaire set-up

Timer 1

Timer 2

Timer 1+2

LON-switch

Function keys

Option inputs

DLS

TLS

3 phase monitor

No.	Relea	Name	Switch 1	Switch 2	VA	W	Cate	Information
1	<input checked="" type="checkbox"/>	GuideLed DXC oben	LON-switch 1	No function	0,0	0,0		GuideLed DXC 8 Watt, Montagehö...
2	<input checked="" type="checkbox"/>	GuideLed DXC unten	Maintained light	No function	0,0	0,0		
3	<input type="checkbox"/>	SKU1/7 CIR25 LUM 3	Maintained light	No function	0,0	0,0		
4	<input type="checkbox"/>	SKU1/7 CIR25 LUM 4	Maintained light	No function	0,0	0,0		
5	<input type="checkbox"/>	SKU1/7 CIR25 LUM 5	Maintained light	No function	0,0	0,0		
6	<input type="checkbox"/>	SKU1/7 CIR25 LUM 6	Maintained light	No function	0,0	0,0		
7	<input type="checkbox"/>	SKU1/7 CIR25 LUM 7	Maintained light	No function	0,0	0,0		
8	<input type="checkbox"/>	SKU1/7 CIR25 LUM 8	Maintained light	No function	0,0	0,0		
9	<input type="checkbox"/>	SKU1/7 CIR25 LUM 9	Maintained light	No function	0,0	0,0		
10	<input type="checkbox"/>	SKU1/7 CIR25 LUM ...	Maintained light	No function	0,0	0,0		
11	<input type="checkbox"/>	SKU1/7 CIR25 LUM ...	Maintained light	No function	0,0	0,0		
12	<input type="checkbox"/>	SKU1/7 CIR25 LUM ...	Maintained light	No function	0,0	0,0		
13	<input type="checkbox"/>	SKU1/7 CIR25 LUM ...	Maintained light	No function	0,0	0,0		
14	<input type="checkbox"/>	SKU1/7 CIR25 LUM ...	Maintained light	No function	0,0	0,0		
15	<input type="checkbox"/>	SKU1/7 CIR25 LUM ...	Maintained light	No function	0,0	0,0		
16	<input type="checkbox"/>	SKU1/7 CIR25 LUM ...	Maintained light	No function	0,0	0,0		
17	<input type="checkbox"/>	SKU1/7 CIR25 LUM ...	Maintained light	No function	0,0	0,0		
18	<input type="checkbox"/>	SKU1/7 CIR25 LUM ...	Maintained light	No function	0,0	0,0		
19	<input type="checkbox"/>	SKU1/7 CIR25 LUM ...	Maintained light	No function	0,0	0,0		
20	<input type="checkbox"/>	SKU1/7 CIR25 LUM ...	Maintained light	No function	0,0	0,0		

Switch 2

Maintained light (batt.)

LON-switch

Function keys

Option inputs

DLS

TLS

3 phase monitor

install. power: VA

W

Circuit programming with switches 1 and 2

If the circuit has been programmed 'via luminaire setup', then up to 20 luminaires in the right hand field can be selected according to their switching type. Clicking on the luminaire numbers 1 - 20 opens the luminaire configuration. (see next page)

Page 82

4.6 Luminaire configuration

Specification of luminaire number, name (max. 20 characters) and entry possibility for further information about the luminaire, e.g. for lamp type, mounting height etc. (max. 100 characters)

Luminaire configuration

Luminaire 1

Name GuideLed DXC oben

Information GuideLed DXC 8 Watt, Montagehöhe 5 m! Leiter erforderlich.

Category VA 0,0 W 0,0

With out CG-S (maintained light)

Non-maintained light

Maintained light

Switch 1

Timer 1

Timer 2

Timer 1+2

LON-switch 1

Function keys

Option inputs

DLS

Switch 2

No function

LON-switch

Function keys

Option inputs

DLS

PC --> ZB-S PC <-- ZB-S Cancel

Specification of the switching type and the switching assignment of the luminaire
- For explanation see the device operating instructions

The above example shows programming of the luminaire to
Switch 1 = LON-switch 1
and Switch 2 = No function.

4.7 General display options

The status of devices or components is displayed in colour in all screens.

- Green signifies 'OK'
- Red signifies 'fault' in the affected area
- Yellow signifies switched on or test active, e.g. circuit is switched on, functional test active
- Grey signifies 'switched off', e.g. luminaire is switched off 'standby light'

Examples:

CGVision V6.30

Group: [] Next FT: 4.5.2018 / 10:01 Next DT: 1.1.2019 / 10:00
 System: [] Manual reset: No Delay on mains return: 0 min
 Information: CGLine+ Self-contained luminaires with central monitoring

Operation: FT DT Blocked Failure

Battery capacity: [] Delay on mains ret.: []
 Charger: [] Booster: []

Battery: U: [] V I: 0.00 A T: [] °C K: [] %

ISO: [] Mains: []

Circuits	1	2	3	4	5	6	7	8
1							2x3A CG- CG	2x6A CG
2								
3								
4								
5								

Buttons: FT start, Reset deep discharge, Manual reset, DLS/TLS/3PhW, LON-switch, Services, Print, Configuration, Back

Group: 1 Type: ZB-S ZB System: 1

Alarm List:

Group	System	Message	Date	Status
1	1	FT fault	11.07.09 14:32:14	Aus

Luminaire No. 1 switched off (grey)

Luminaire No. 2 fault (red)

Fault display in plain text in alarm list (red)

CGVision V6.30

Group: [] Next FT: 4.5.2018 / 10:01 Next DT: 1.1.2019 / 10:00
 System: [] Manual reset: No Delay on mains return: 0 min
 Circuit: Max. 20 Zeichen Switch 1: Per luminaire set-up Switch 2: []
 Information: Max. 100 Zeichen Zusatzinformationen

1/7 CG-S 2x3A

Name	Switch 1	Switch 2
1 GuideLed DXC oben	LON-switch 1	
2 GuideLed DXC unten	Maintained light (mains)	
3 Spare!		
4 Spare!		
5 Spare!		
6 Spare!		
7 Spare!		
8 Spare!		
9 Spare!		
10 Spare!		
11 Spare!		
12 Spare!		
13 Spare!		
14 Spare!		
15 Spare!		
16 Spare!		
17 Spare!		
18 Spare!		
19 Spare!		
20 Spare!		

Buttons: ISO +, ISO -, Fuse DC, Fuse AC, Overload, Current i < Imin, Print, Configuration, Back

Group: 1 Type: ZB-S ZB System: 1

Alarm List:

Group	System	Message	Date	Status
1	1	FT fault	11.07.09 14:32:14	Aus

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400 71 347 387(M) – Section 4 / 12/12/18/ CE
-Technical alterations without notice!

Installation and operating instructions
Visualisation and monitoring software
CGVision and CEAG OPC server

For the monitoring and control of
CEAG emergency lighting systems

CGVision from V6.30

40071347387 (M)

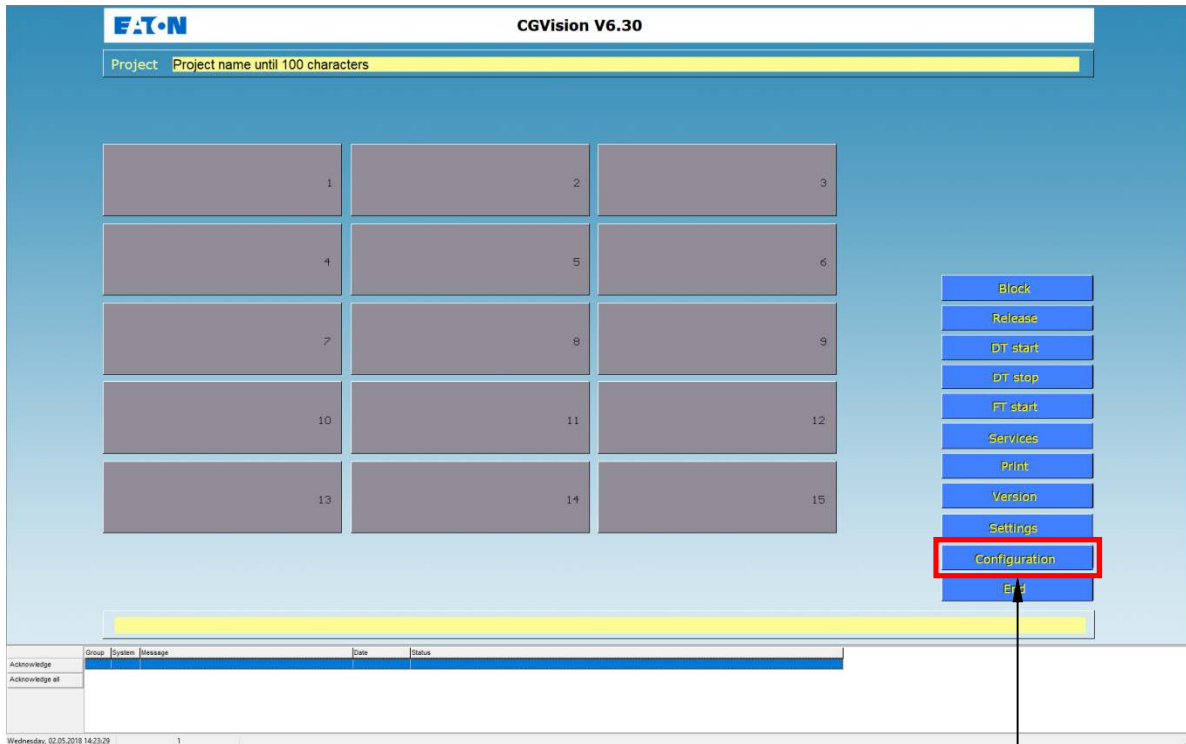


Section 5
AT-S+ device family

5 AT-S+ device family

5.1 Configuring a AT-S+ system group

4.1.1 Configuring a ZB-S system group:



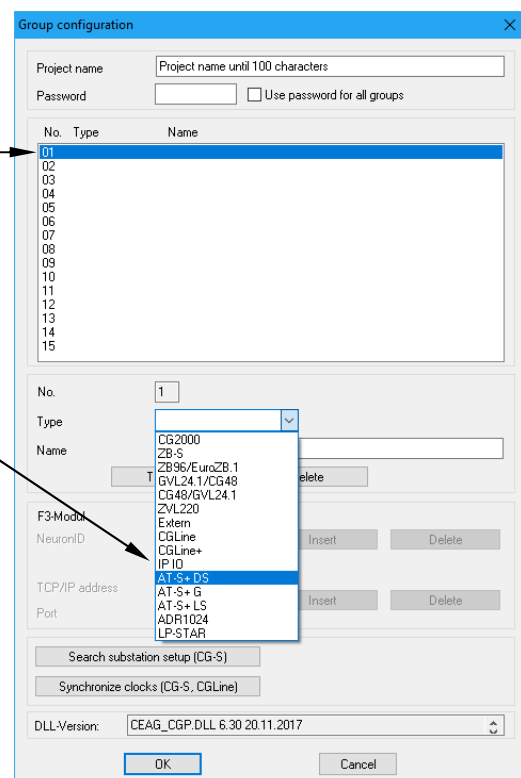
A new device family, e.g. AT-S+, can be created via the 'Configuration' menu.

The group configuration menu then appears:

a) In the group selection window a system group can be defined by selecting the corresponding group number (marked blue)

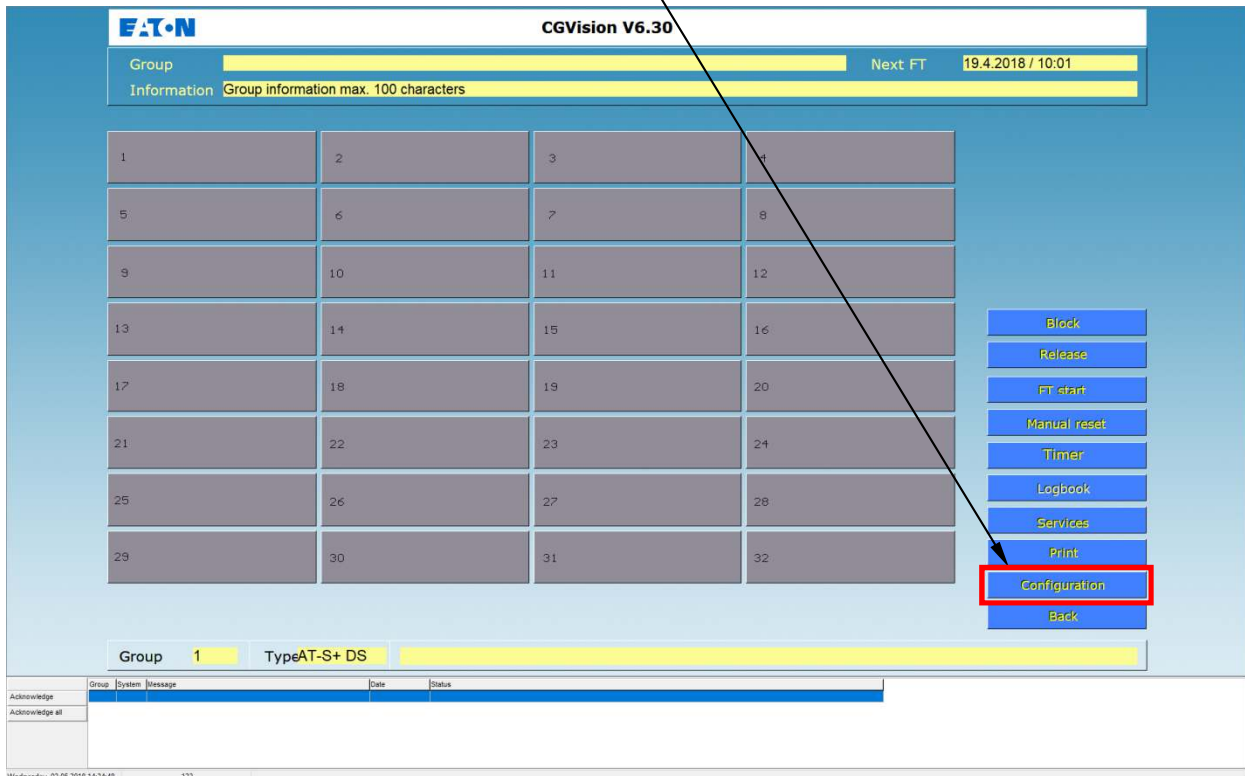
b) In the Drop-Down menu „Type“, Following device types can be selected
„AT-S+ DS“ = for Dual systems
„AT-S+ G“ = for generator or
„AT-S+ LS“= for Load Star
The type depends on the safety source

c) Confirm with 'Accept', define further groups or exit with 'OK'





The asset group has now been added. Click on this group to open the plant group picture.
Up to 32 devices can now be created via the "Configuration" menu.



The system configuration menu then appears:

a) In the device selection window a system can be defined by selecting the corresponding device address (marked blue)

Important: the device address must correspond with the address of the AT-S+!
(see point c)

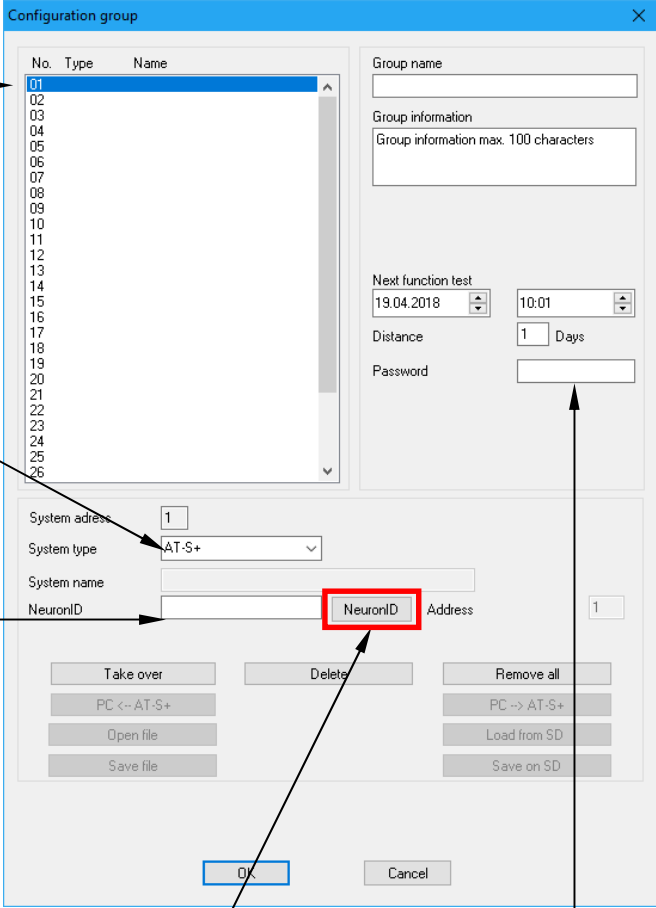
b) AT-S+ system type

c) The 12-character Neuron ID of the device must now be entered.

1. Via the new search tool (network scan) as described below

2. Manual entry
The Neuron ID can be read out in the control unit menu 'Basic settings' → 'Connection to GLT'.
Here the device address for point a) can also be read out or set.

Confirm with 'Accept', add further groups in the same way or exit with 'OK'
Automatic restarting of CGVision is now required.



Here is possible to set a password for access protection

about the first entry of the Neuron ID via the new search tool:
The simplest method to add systems in CGVision is offered by a new search tool that carries out a network scan on the CG-S bus and lists all systems with a Neuron ID. To start the search tool, the desired device address (in the example address 01, marked blue above) must be selected and then the 'NeuronID' button clicked on.
Please note, with use of a CG-S/USB interface box:
the new search tool only functions with the CG-S/USB interface box with blue end caps.

The CEAG search tool opens in a new window

1. The LON interface must be set to xxx0, e.g. with LONUSB to LONUSB0, according to which interface is used. In the example below with LONIP, the interface must therefore be set to LONIP0.
The length must be set to 0, the subnet to a number between 1 and 255 and the node to between 1 and 127
-Save these settings by clicking on 'Accept'.

2. ,AT-S+' must be activated

COOPER

CEAG LON-Suchtool 22.05.2014 V1.07

Scan

Wait for service PIN

Store result

Load file

End Wait for service PIN

Send Wink to selected node

Delete result

Scan result

Neuron-ID	Prog-ID	Name	System adr.	Domain 0	Subnet 0	Node 0	Domain 1	Subnet 1	Node 1

System number 0 CG2000 0 ZB-S 0 AT-S+ 0 Systems found 0
Other 0 REL 0 LP-STAR

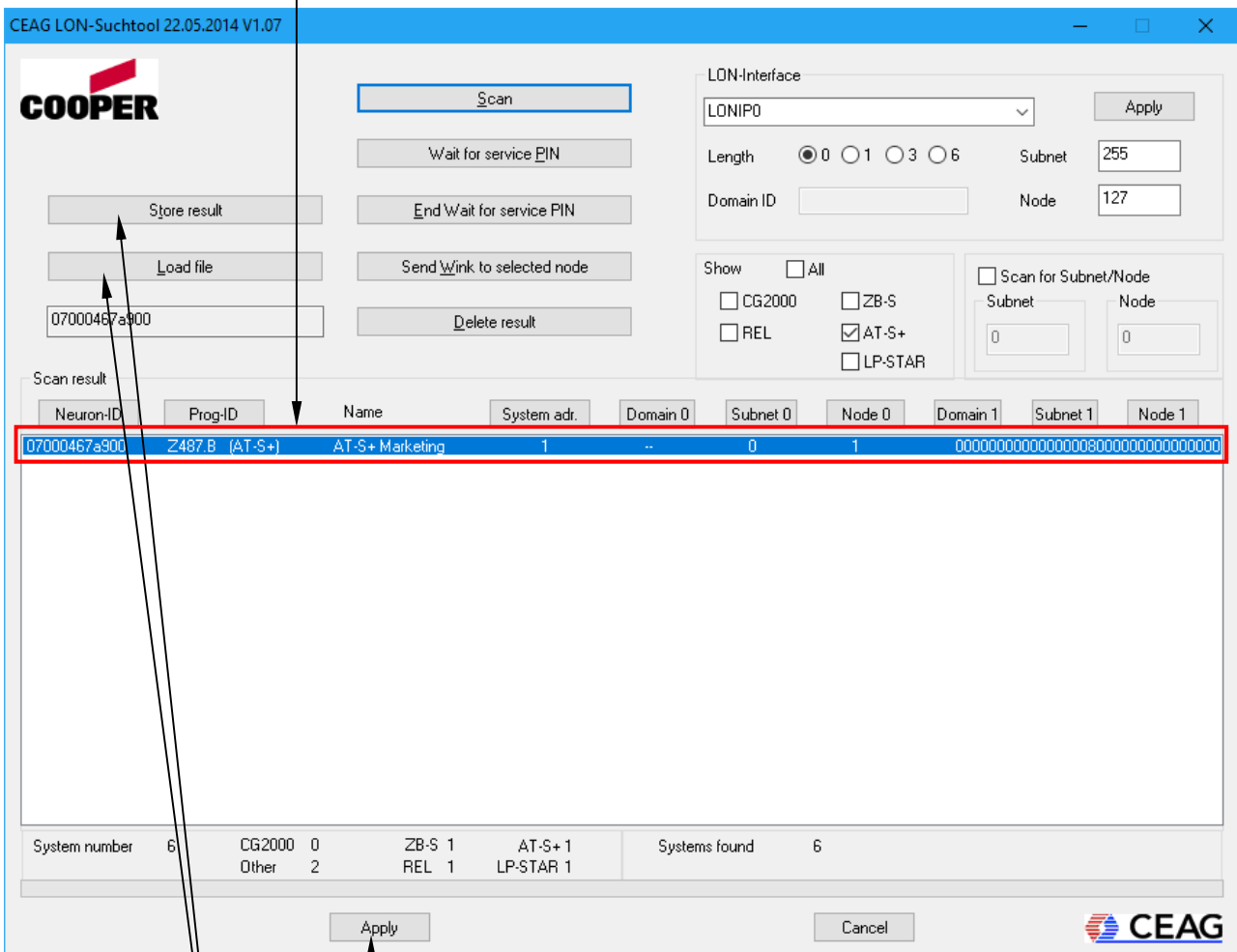
Apply Cancel

CEAG

The network scan can now be started with 'Search'. With correct bus installation, all AT-S+ systems found are now listed (next screen)

The network scan may take some minutes according to the quantity of installed CG-S systems (ZB-S/AT-S+/LP-STAR/CG2000).

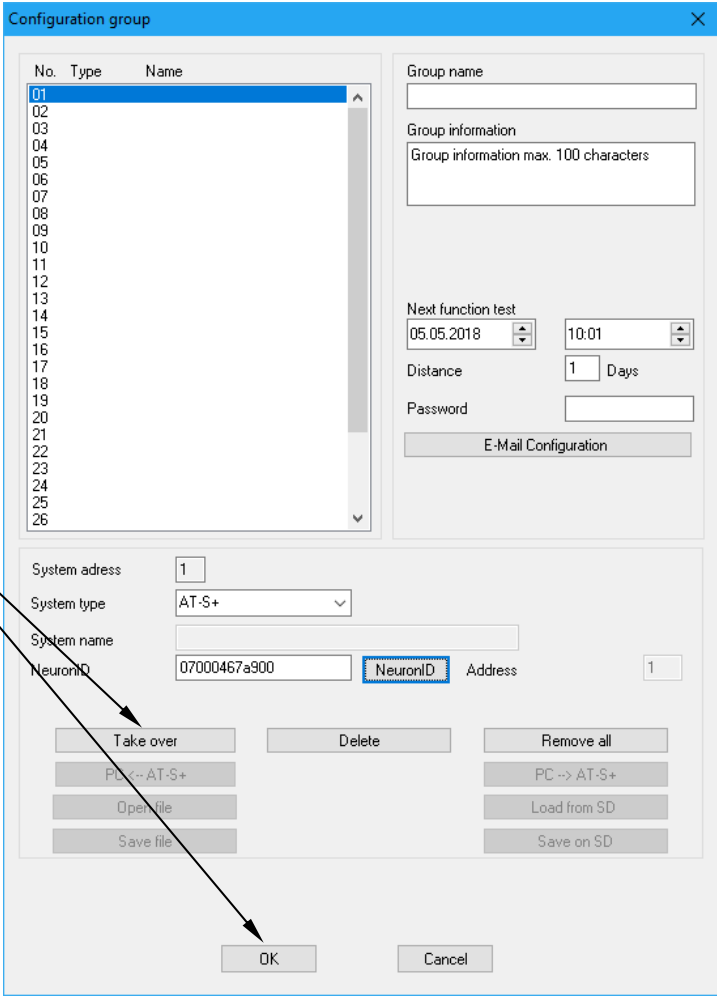
All AT-S+ devices found are specified in the 'search results' list. As information, the Neuron ID, the software version Z410 with state, the system types AT-S+, the device name (20 characters, from the control unit) and the device address 1 to 32 are displayed. The required AT-S+ with the correct Neuron ID and device address must now be selected, marked blue.



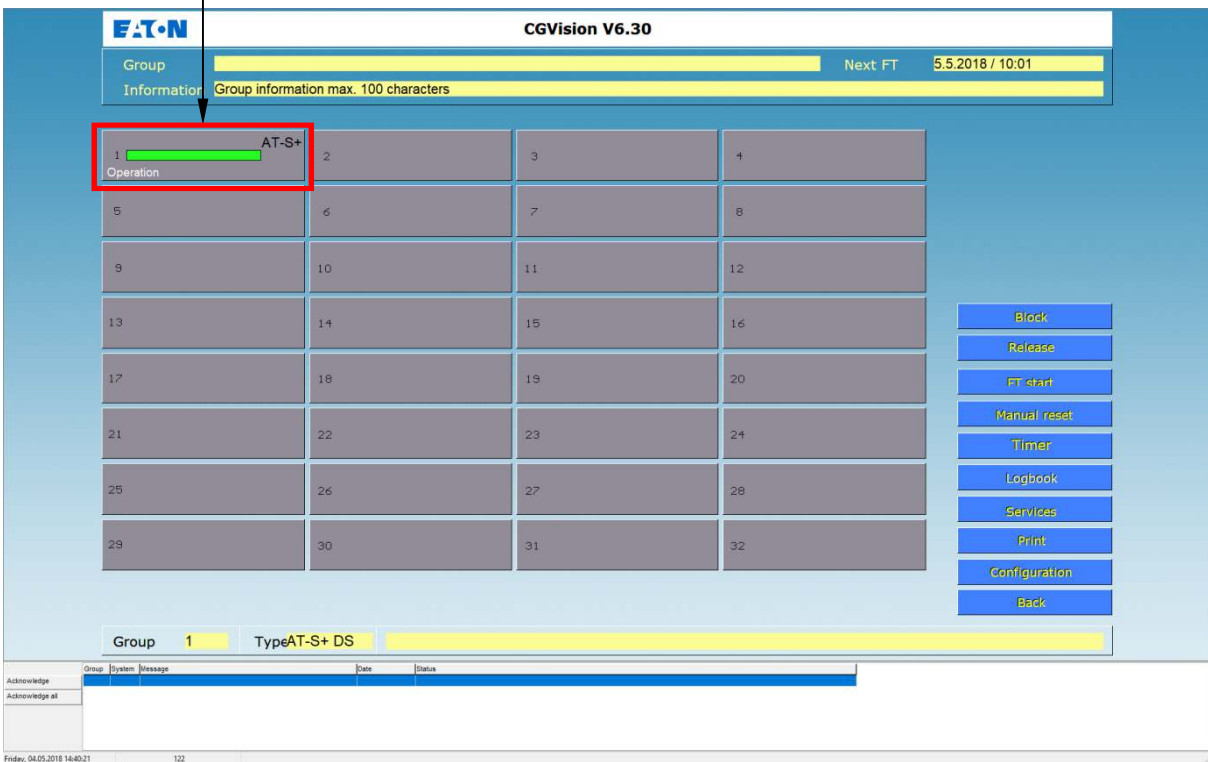
'Accept' automatically copies the NeuronID into the AT-S+ configuration (next screen)

Because the network scan may take some minutes (according to the number of devices), it is possible to save this result locally via "Save results". With the next AT-S+ system, the result is more rapidly loaded via 'Open file' instead of a network scan.

The NeuronID is now automatically transferred for the system. By clicking on 'Accept' a new device can be added in a similar way. When all AT-S+'s are added to this group, clicking on 'OK' saves all modifications. A CGVision restart then follows.

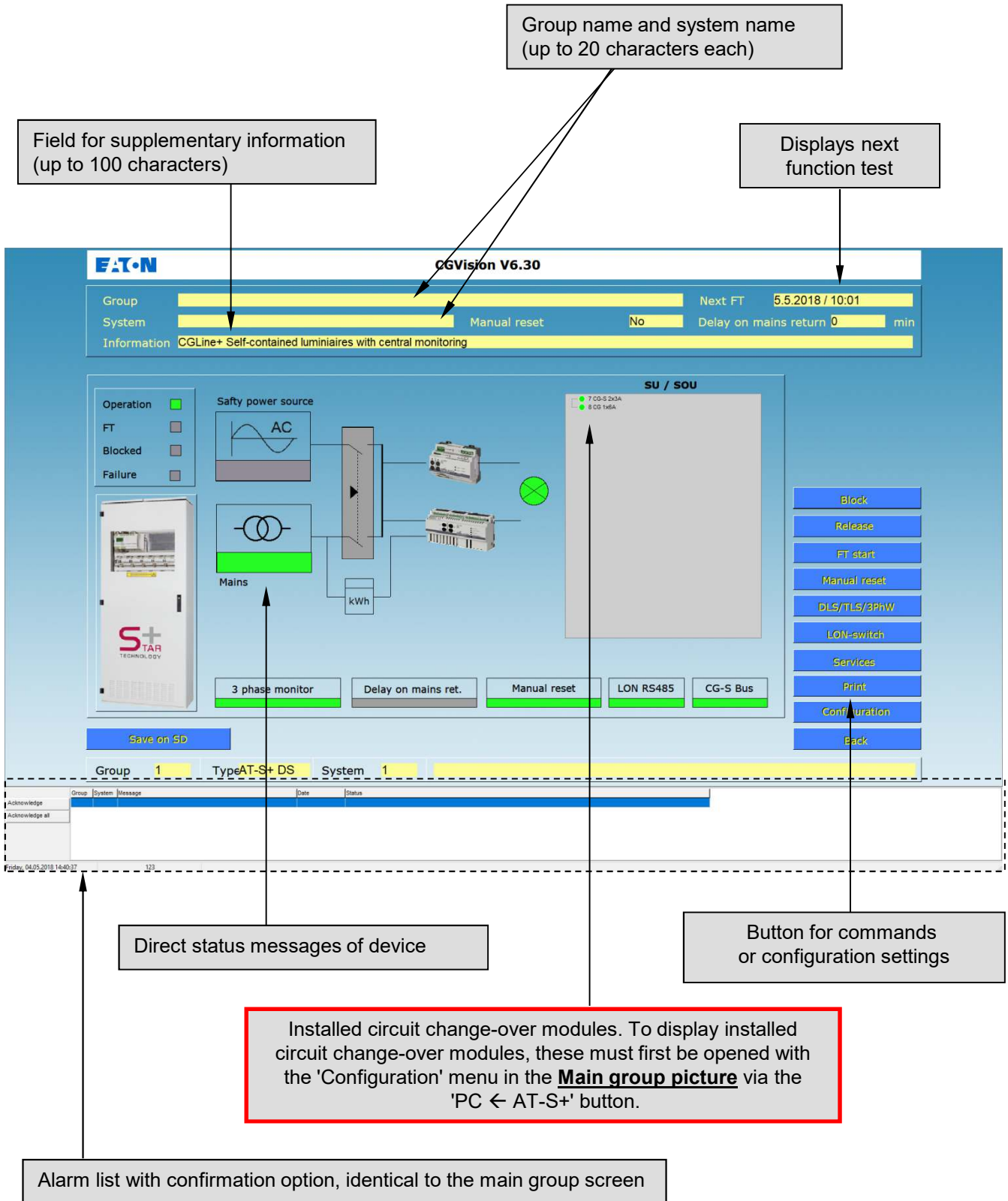


After the CGVision restart the added devices are displayed with type designation in the assigned button. This button is now active and displays the current status via colour designation according to operational state, e.g. green = operational, red = fault, yellow = function test or continuous operation test active. By clicking the group button the next screen opens, 'Device screen' .



5.2 ,AT-S+ device screen'

5.2.1 Structure of the device screen:



5.2.2 Function buttons:

Button functions for command or configuration settings

The screenshot displays the FATON CGVision V6.30 software interface. At the top, there are fields for Group, System, and Information. The Information field shows 'CGLine+ Self-contained luminaires with central monitoring'. Below this is a schematic diagram of the power source, including AC and Mains inputs, and a kWh meter. On the right side, there is a vertical stack of function buttons: Block, Release, FT start, Manual reset, DLS/TLS/3PhW, LON-switch, Services, Print, Configuration, and Back. A box at the top of the page points to these buttons with the text 'Button functions for command or configuration settings'.

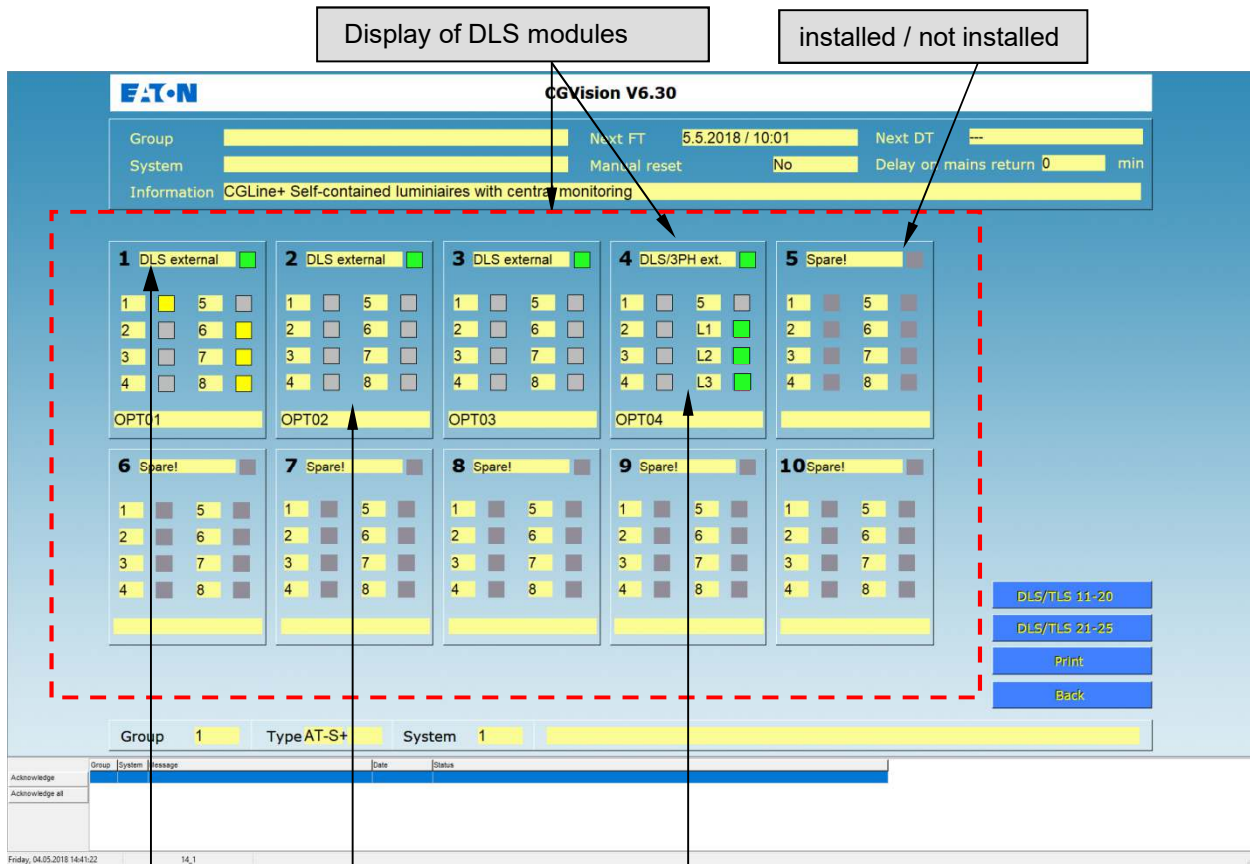
- a). 'Layout'
Calling up of the first available luminaire layout of the device
(option must be authorised via a dongle, available separately.)
- b). 'Block'
The device is blocked
- c). 'Release'
The blocked device is released
- d). 'FT Start'
An FT test (function test) is carried out for the device.
- e). 'Manual reset'
This enables the device responding to manual resetting to be reset.
- f). 'DLS/TLS/3PhW'
Menu for configuration of DLS / TLS / and 3-phase monitor functions
- g). 'LON switch'
Menu for connecting external LON switches
- h). 'Services'
Various services for the inspection book and for configuration
- i). 'Print'
A screenshot of the current screen is printed
- j). 'Configuration'
Configuration settings for all data on the device screen
- k). 'Back'
Return to system group screen

a). Calling up of the available layouts in this system group
(option must be released, see the 'layout programming' section)

b). - e). Commands described previously (Points b-e) can be directly executed

f). 'DLS/TLS/3PhW'

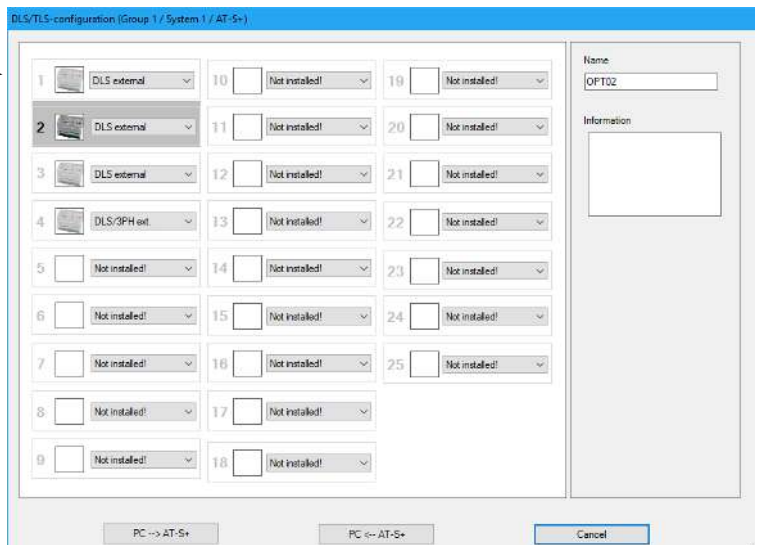
Menu for configuration of DLS / TLS / and 3-phase monitor functions



DLS module with 8 inputs

DLS module with 5 inputs and 3-phase monitoring

Open the configuration window by clicking on the DLS name



DLS configuration:

DLS modules, due to hardware, can only be installed at the device. Subsequently installed modules can be 'opened' via PC ← AT-S+ by CGVision. With CGVision, in the DLS / TLS configuration the name and supplementary information can be entered.

about f). 'DLS/TLS/3PhW'
 Selection of DLS modules 11 - 25

Selection of the
 DLS modules 11 - 25

The screenshot shows the Eaton CGVision V6.30 interface. At the top, it displays system parameters: Group, Next FT (5.5.2018 / 10:01), Next DT, System, Manual reset (No), and Delay on mains return (0 min). The information section indicates 'CGLine+ Self-contained luminaires with central monitoring'. Below this, there are 10 module panels, each with a 4x4 grid of buttons (1-16) and a label (OPT01 to OPT04 or Spare!). A navigation menu on the right contains buttons for 'DLS/TLS 11-20', 'DLS/TLS 21-25', 'Print', and 'Back'. The 'DLS/TLS 11-20' button is highlighted with a black arrow pointing to the next screenshot.

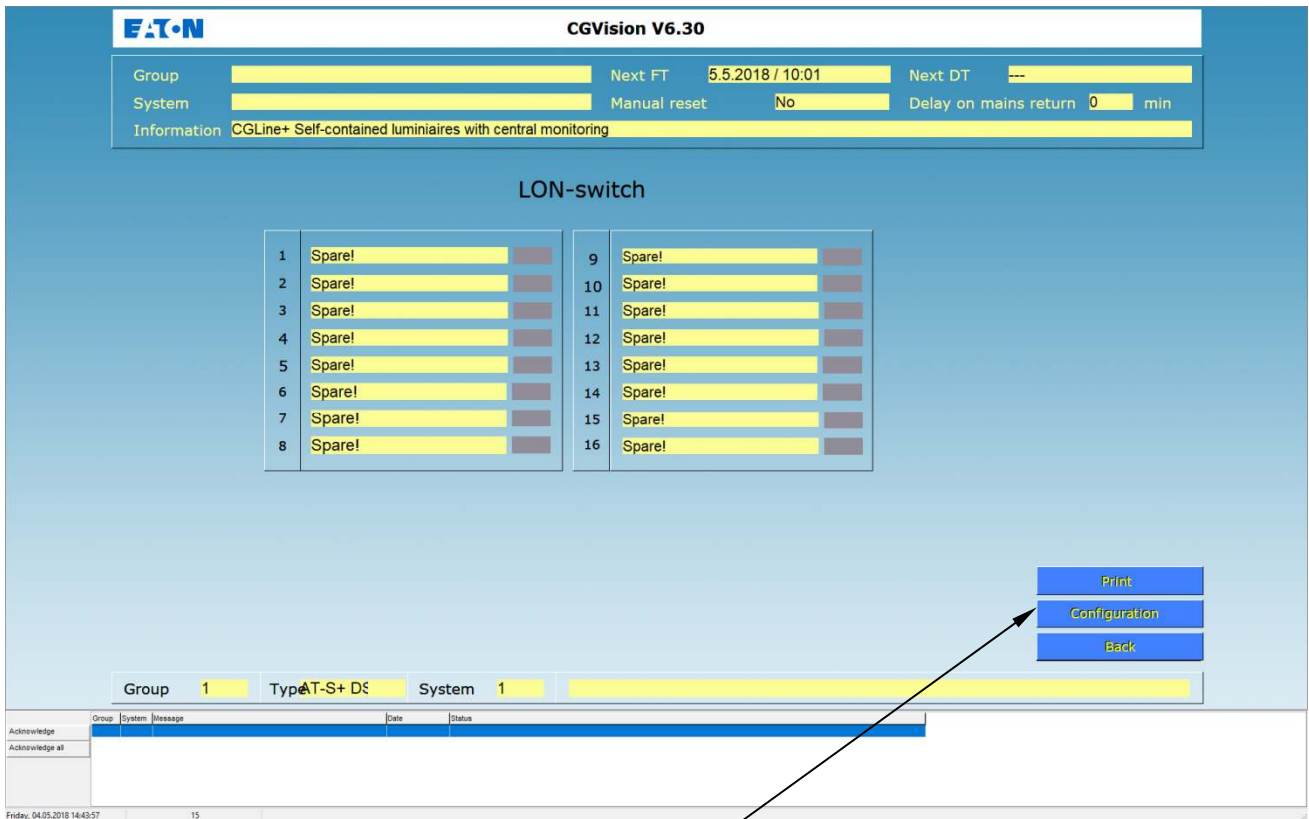
DLS-module 11 - 20

DLS-module 21 - 25

This screenshot shows the configuration screen for DLS modules 11-20. It features 10 'Spare!' module panels, each with a 4x4 grid of buttons (1-16). A navigation menu on the right contains buttons for 'DLS/TLS 11-20', 'DLS/TLS 21-25', 'Print', and 'Back'. The 'DLS/TLS 11-20' button is highlighted with a black arrow pointing to this screenshot.

This screenshot shows the configuration screen for DLS modules 21-25. It features 5 'Spare!' module panels, each with a 4x4 grid of buttons (1-16). A navigation menu on the right contains buttons for 'DLS/TLS 11-20', 'DLS/TLS 21-25', 'Print', and 'Back'. The 'DLS/TLS 21-25' button is highlighted with a black arrow pointing to this screenshot.

g). 'LON switch'
Menu for connecting external LON switches



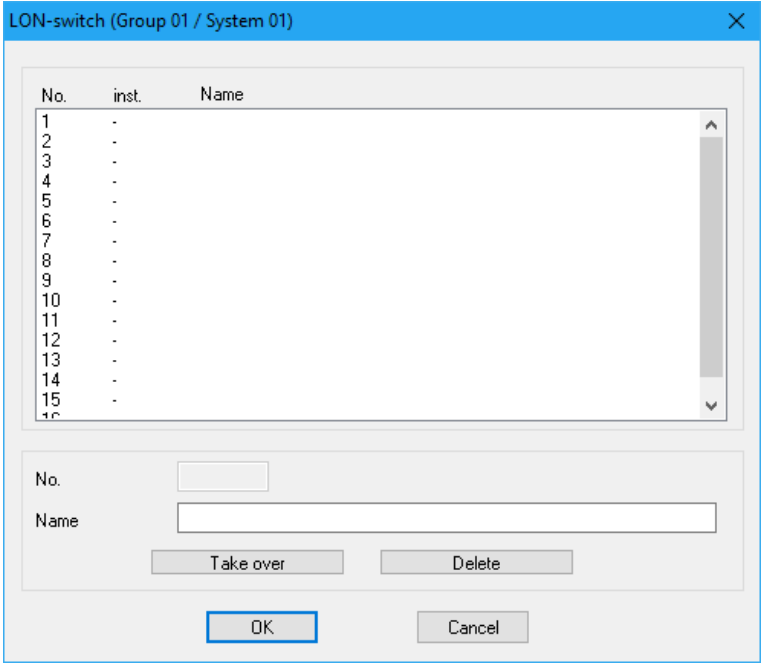
Configuration of external LON sensors:

Up to 16 external LON sensors (e.g. switch) can be assigned. Assignment, contrary to At-S+, is independent of the assignment of the DLS addresses.

To be able to use the 'LON switch' function in the AT-S+ device in the menu:
Basic settings // Connection to GLT
 --> *LON switch: YES*
 must be activated.

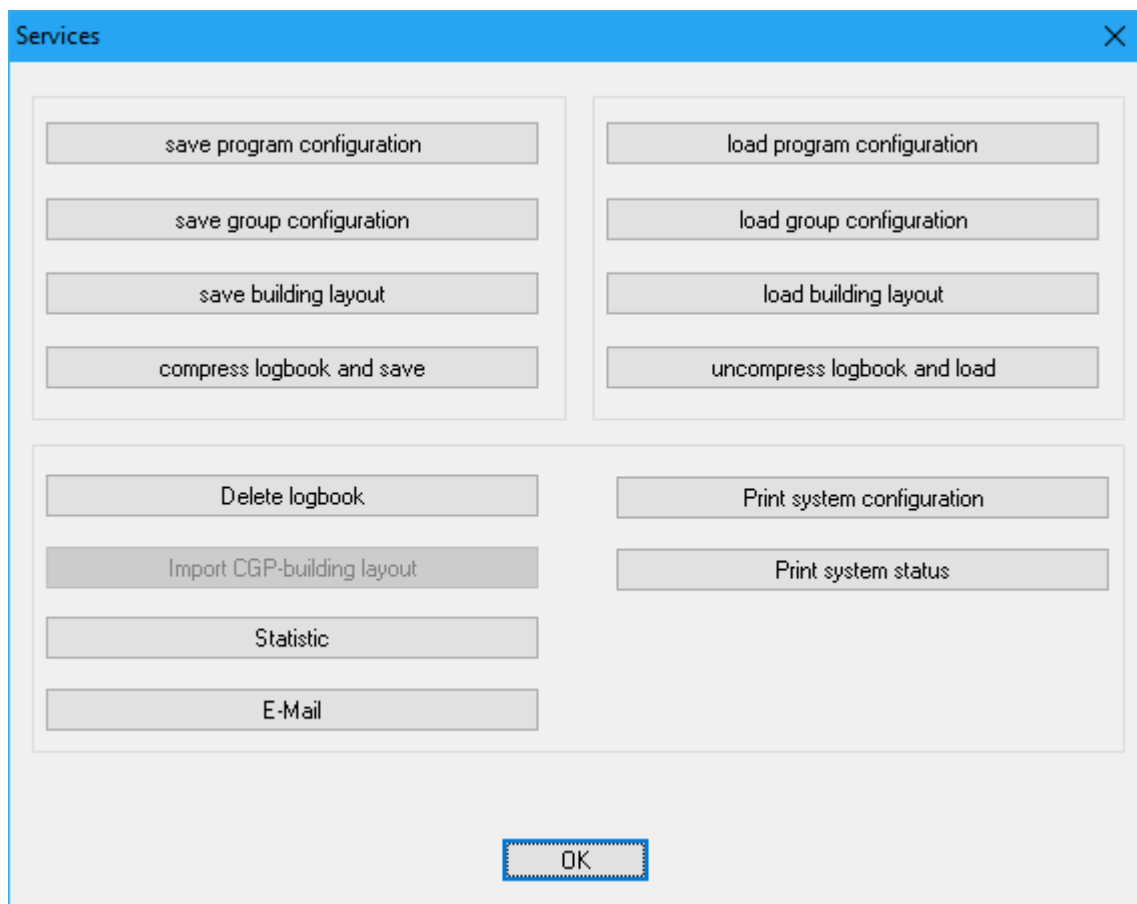
This can also be activated in CGVision under I.) 'Configuration' of the device.

An integration of external LON sensors must be carried out by an authorised LON Integrator.



h). 'Services'

Various services for the inspection book and for configuration



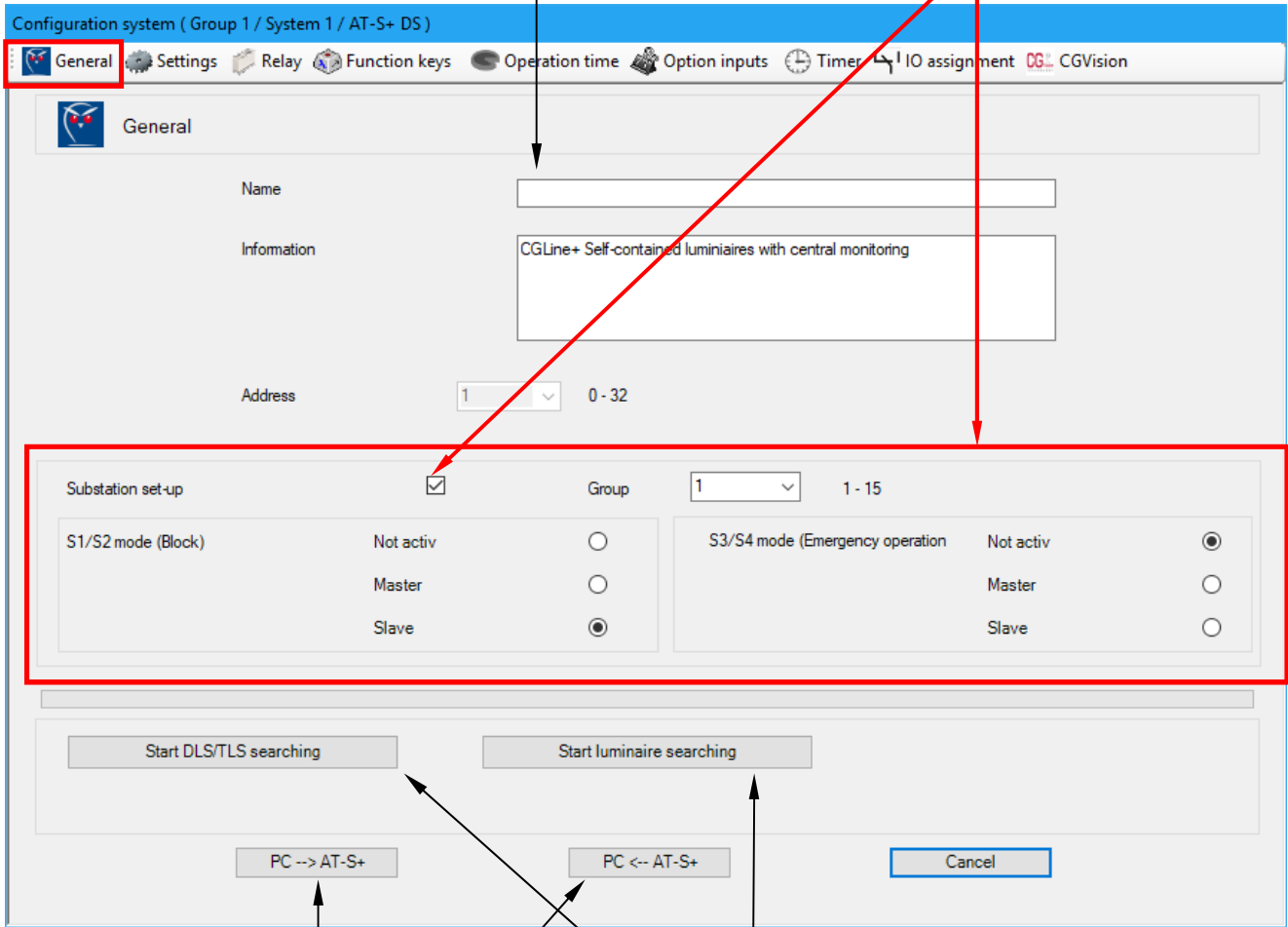
The 'Services' menu is identical with the 'Services' menu in the system group screen, apart from clicking on Status only relates to the individual system.

You can find a detailed description to the 'Services' menu for saving and opening of program configurations/group configurations in Section 'System group screen'.

j). 'Configuration of system' (device)
a). General

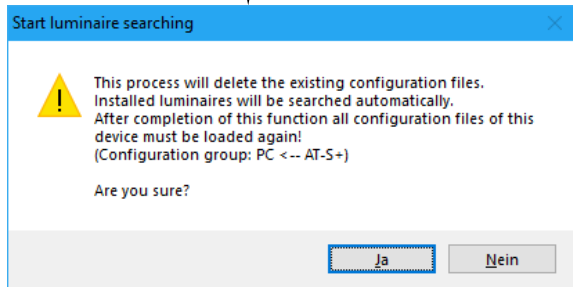
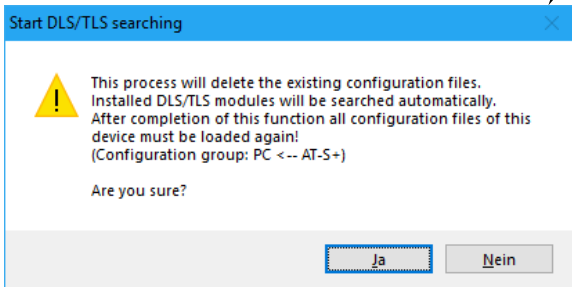
Entry of device name and supplementary information

The substation setup has to be deactivated, if CGVision is used !
Mailfunctions could occur !

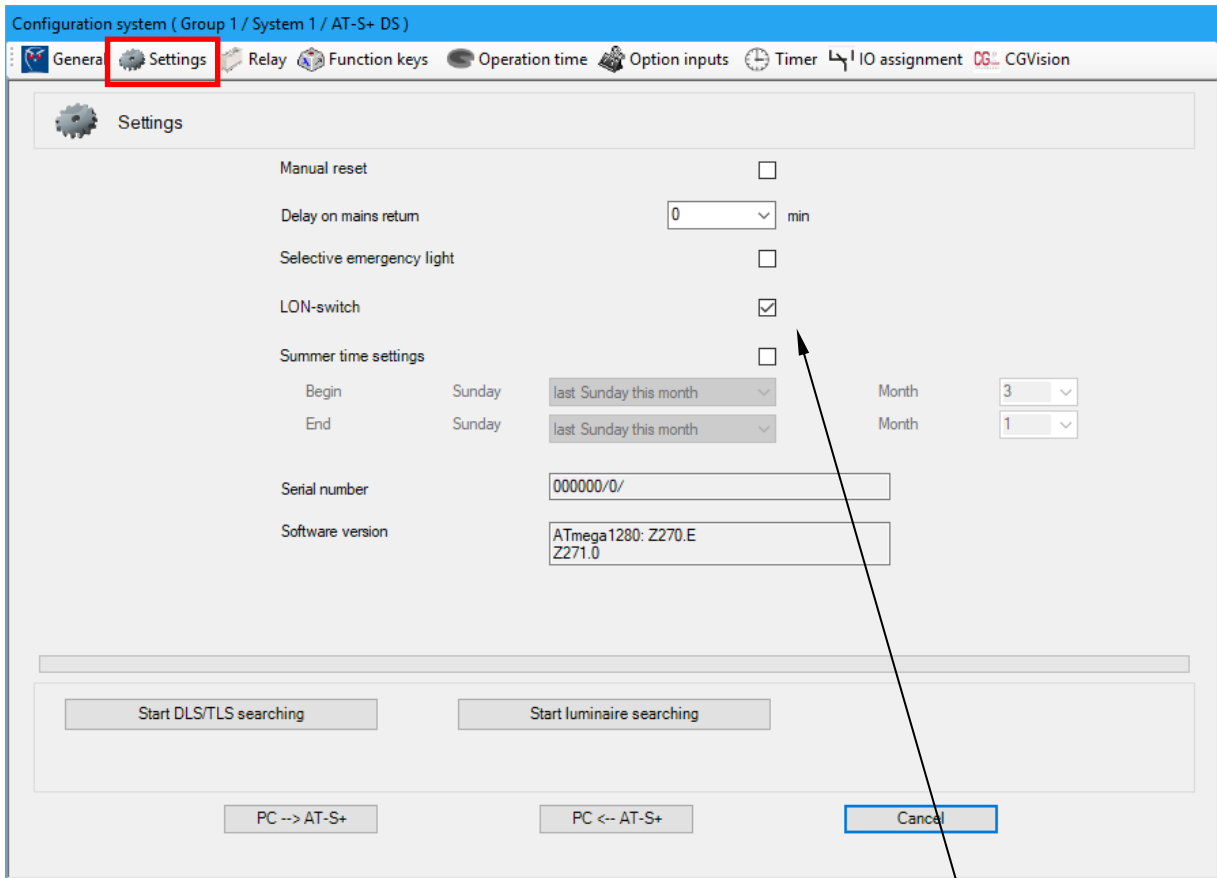


With the button 'PC --> AT-S+', all modified settings for this screen can be sent to the device. With the button 'PC <-- AT-S+', the current configurations in the device (control unit!) can be downloaded to the PC.
To open the complete system configuration, the configuration must be opened via the system group screen

Option: DLS/TLS search and luminaire search
Buttons for starting 'DLS/TLS search' and 'luminaire search' as possible on the device.
It must be considered though that after implementing these functions the configuration data of the device must be reopened. The following windows appear: With DLS search luminaire search



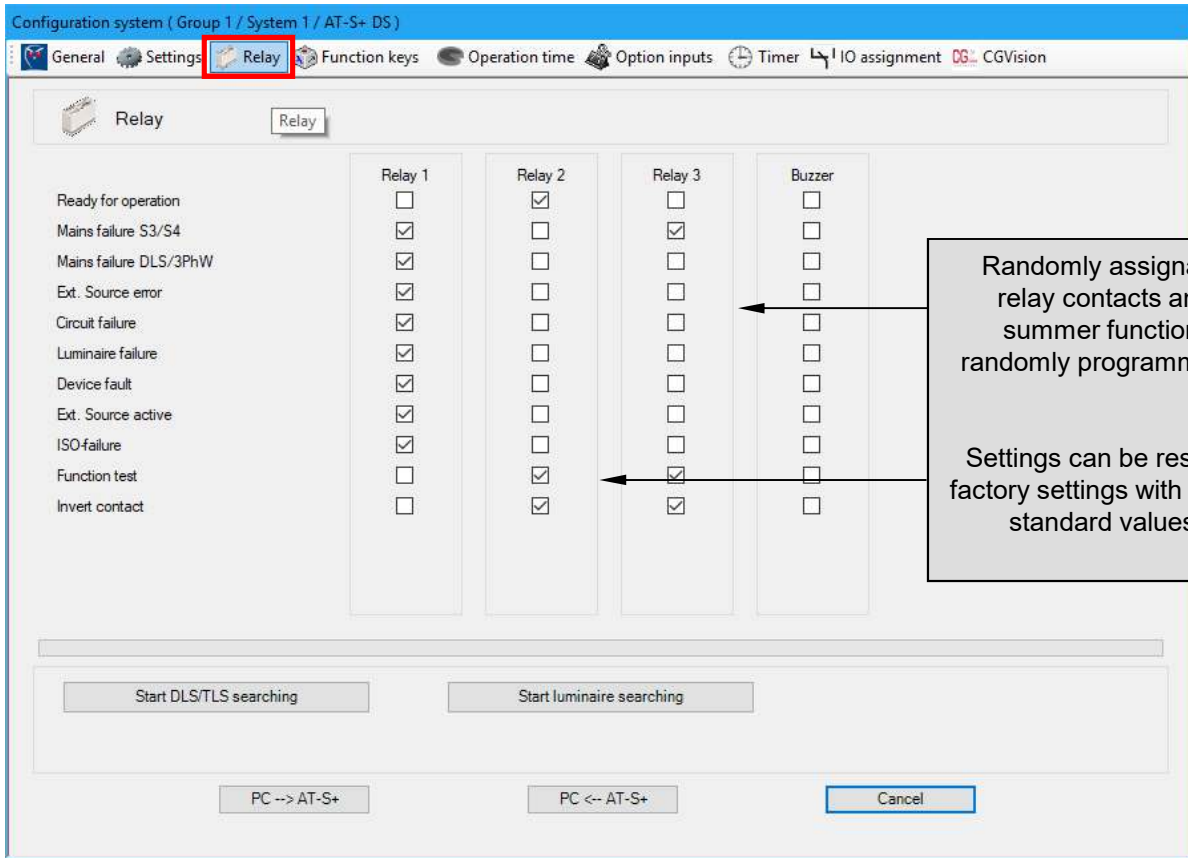
about j). 'Configuration of system' (device)
b). Settings



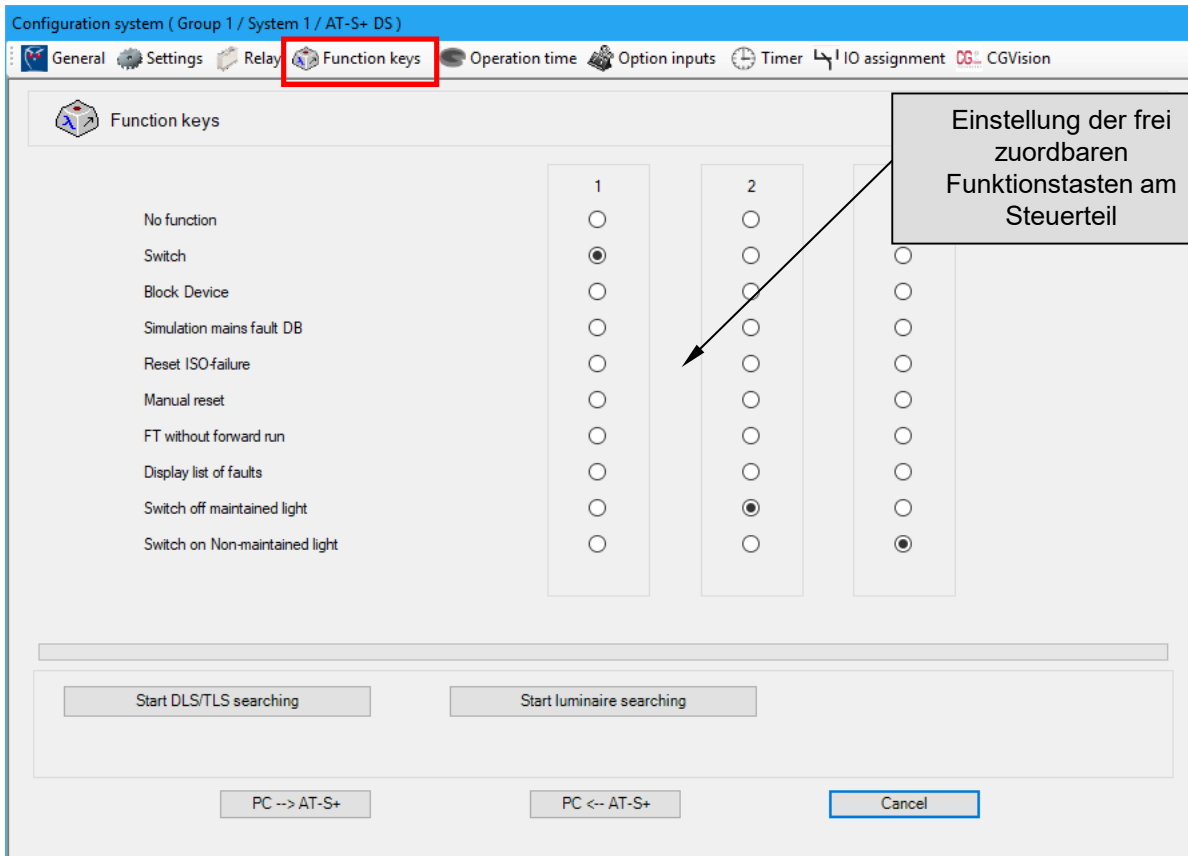
Activation/input of special settings such as:

- Manual reset
- Follow-on emergency light 1 - 15 mins.
- selective emergency light:
→ Circuits/luminaires in emergency lighting operation are assigned to the external DLS/3PH modules
- LON switch activation
→ for example for switching circuits/luminaires via external LON switches
- Automatic summer time modification for the control unit clock

about j). 'Configuration of system' (device)
 c). Relay



d). Function keys



about j). 'Configuration of system' (device)

e). Operation time

Configuration system (Group 1 / System 1 / AT-S+ DS)

General Settings Relay Function keys **Operation time** Option inputs Timer IO assignment CG Vision

Operation time

Rated operation time 3 h

Min. operation time 67 % (10-100)

Start DLS/TLS searching Start luminaire searching

PC --> AT-S+ PC <-- AT-S+

Specification of operating time (battery operation):

- 1 - hour
- 2 - hour
- 3 - hour
- 8 - hour

Specification of limit operating time for a continuous operation test: 0 - 100 %.

The standard is: continuous operation test = rated operating time

f). Optionseingänge

Configuration system (Group 1 / System 1 / AT-S+ DS)

General Settings Relay Function keys **Option inputs** Operation time Timer IO assignment CG Vision

Option inputs

No function

Switch

Inverse switch

Manual reset

Start FT

All Luminaires ON

Cancel FT

Block Device

Switch off maintained light

Switch on Non-maintained light

Ventilation monitoring

Ext. ISO Monitor

Ext. Battery Monitor

Ext. Monitor

Ext. Source ready

Ext. Source active

Ext. Source error

Ext. Charger failure

Ext. Mains failure

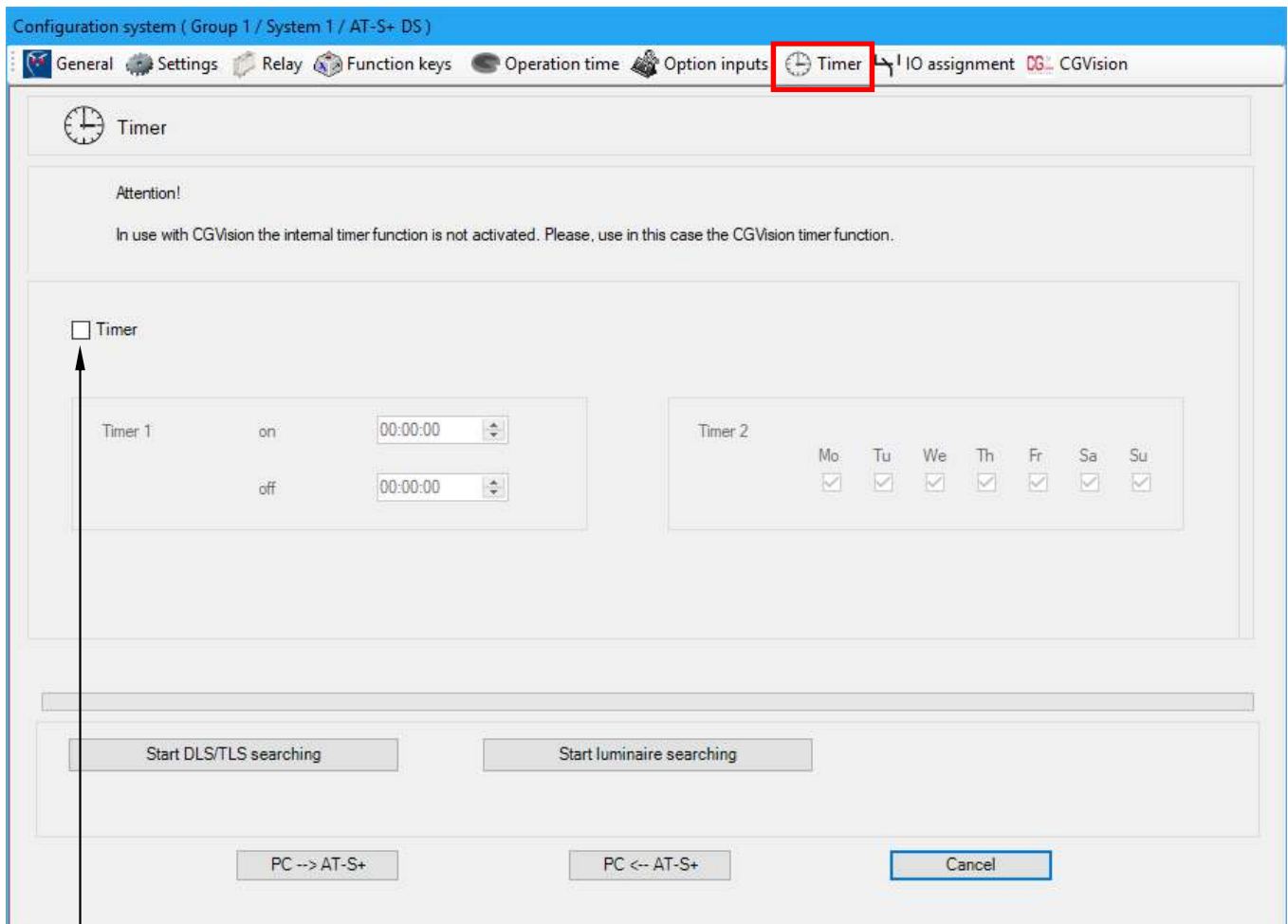
1 2 3 4

Start DLS/TLS searching Start luminaire searching

PC --> AT-S+ PC <-- AT-S+ Cancel

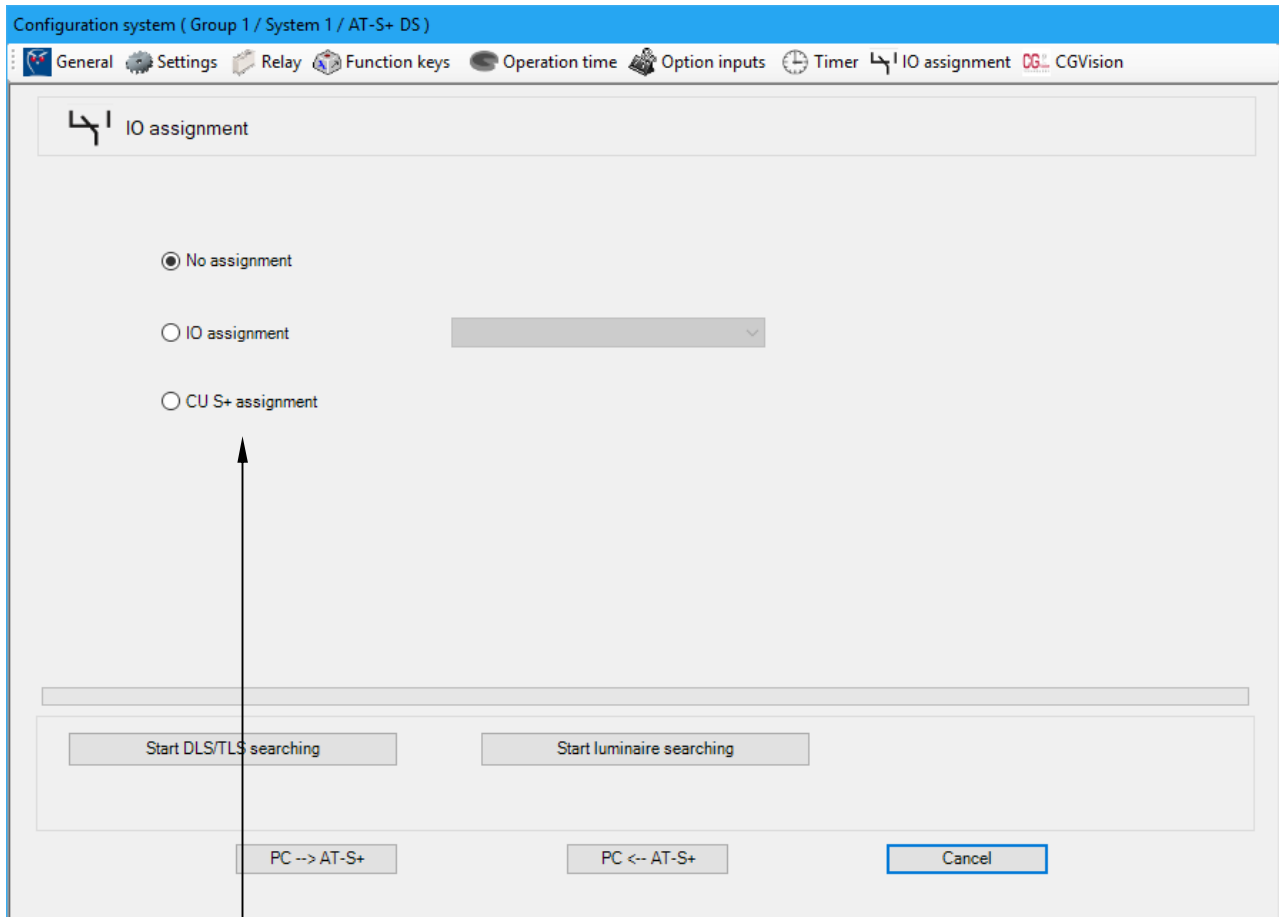
Settings for the randomly assignable zero-potential option inputs on the control unit

about j). 'Configuration of system' (device)
g). Timer



With operation with CGVision the internal timer function of the CU-S control unit is deactivated. Timer control is implemented in CGVision according to Section Timer

about j). 'Configuration of system' (device)
h). I/O assignment




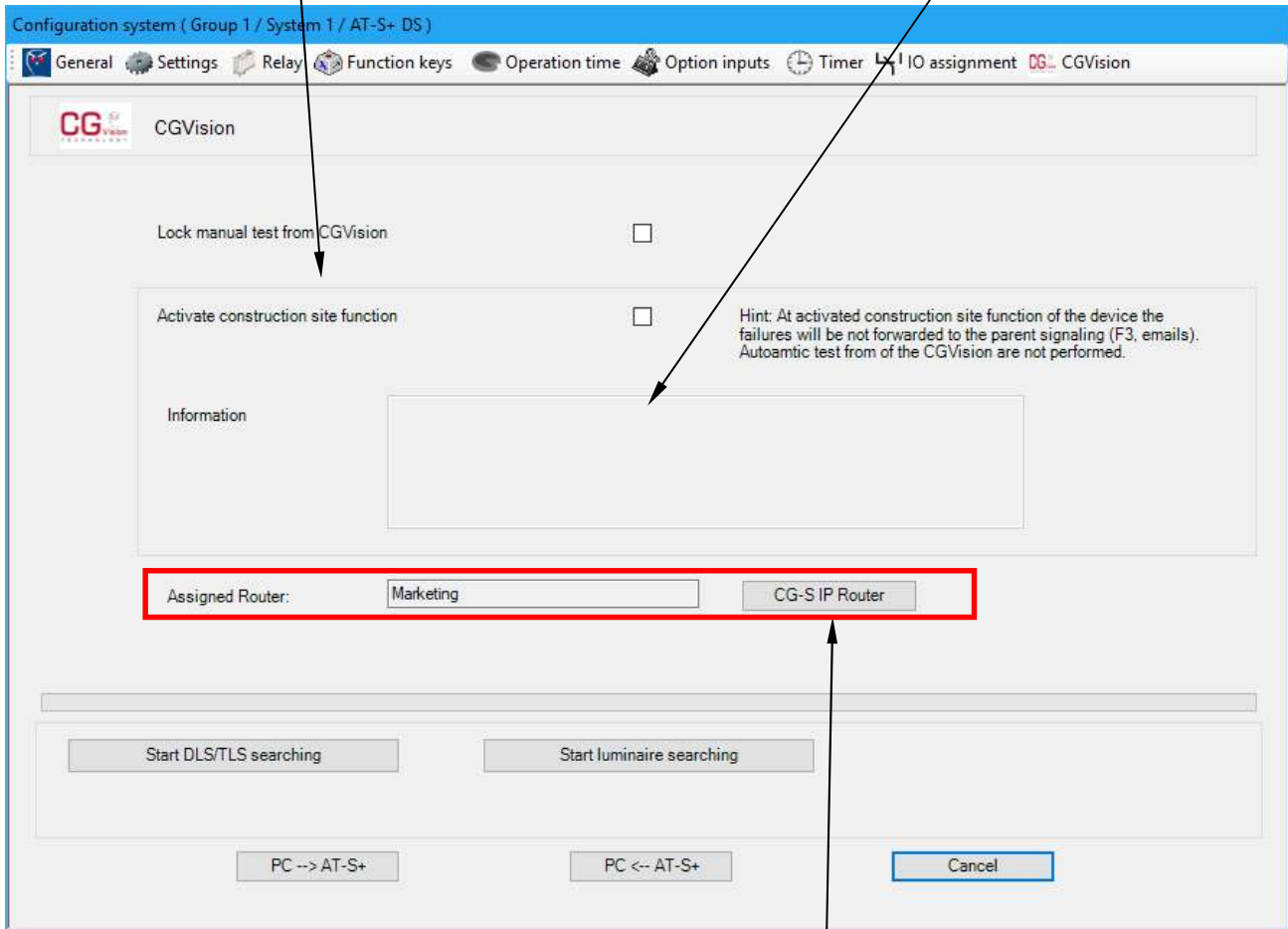
Here is possible to select the assignment of the inputs and outputs

- No assignment
- I/O assignment
- CU-S+ assignment

**about j). 'Configuration of system' (device)
i). CGVision**

This function deactivates the manual tests (FT and BT) of the CGVision. The buttons in the mimic are hidden. Manual tests directly on the system are still possible.

If the construction site function is activated, automatic tests are no longer carried out by CGVision. This is used if work is being carried out on installations or in the areas. A construction site sign then appears in the system pictures:




An IP router administration and can be set up here.
For more information see the following pages

5.2.3 CG-S/ IP-Router administration

The CG-S/IP router administration enables a clear display of the CG-S/IP routers installed in the network. The CG-S/IP routers can then be assigned to installations in order to locate them quickly.

The data of the installed CG-S/IP routers can be created in the "CG-S/IP router" menu. The corresponding configuration server can be marked with a check mark.

After "Accept" the next line can be activated in the right field to create the next CG-S/IP router.

CG-S/IP Router (Group 1 / System 1)

Assignment CG-S/IP Router - Device [CG-S/IP Router]

Type: CG-S / IP-Router- 1P.V2

Local host name: Marketing

Information: CG-S/IP-Router zur Musteranlage

Building: Halle 1

Location: Raum 1152

ID: Seriennummer Gerat

MAC address: 00 -00 -00 -00 -00 -00

DHCP:

TCP/IP address: 192 168 1 250

Mask: 255 255 255 0

Gateway:

Config. Server:

Take over: Delete:

Use Mac Address as name

Type	Local host name	Information	Building	Location	ID	MAC address	DH	TCP/IP address	Gateway	Mask	Config. Serv
CG-S / I...	Marketing	CG-S/IP-Router zur Musteranlage	Halle 1	Raum 1...	Seiens...	00-00-0...		192.168.1.250	255.255...	...	X

Print: End:

In the "CG-S/IP Router assignment" menu, the system can be spatially assigned to the corresponding IP router by "dragging" it with the mouse.

CG-S/IP Router (Gruppe 1 / Anlage 1)

Zuordnung CG-S/IP Router - Anlagen CG-S/IP Router

CG-S/IP Router

Marketing

CG-S / IP-Router- 1P.V2
00-00-00-00-00-00
CG-S/IP-Router zur Musteranlage

Nicht zugeordnete Anlagen

Gruppe	Anlagennummer	Anlagentyp	Anlagenname	Anlageninformation	NeuronID
1	1	ZB-S		CGLine+ Self-contained luminaires with central monitoring	0702594#f00

Drucken: Beenden:

Die Anlage wird dann entsprechend unter dem CG-S/IP Router platziert, um darzustellen wo der IP-Router räumlich installiert ist.

The screenshot shows a software interface for assigning CG-S/IP Router plants. The title bar reads "CG-S IP Router (Gruppe 1 / Anlage 1)". Below the title bar, there are two tabs: "Zuordnung CG-S IP Router - Anlagen" and "CG-S IP Router".

The interface is divided into two main sections:

- Left Section (CG-S IP Router):** A tree view showing a folder "Marketing" with a sub-item "1_1_AT-S+" highlighted in green. Below this section are navigation arrows "<" and ">".
- Right Section (Nicht zugeordnete Anlagen):** A table with the following columns: "Gruppe", "Anlagennummer", "Anlagentyp", "Anlagenname", "Anlageninformation", and "NeuronID". The table body is currently empty and shaded grey.

At the bottom of the interface, there are two buttons: "Drucken" (Print) and "Beenden" (End).

5.3 SKU screen

By clicking a button the corresponding circuit level opens (circuit screen)

Installed circuit change-over modules are displayed by colour-highlighted buttons. By clicking a button the corresponding circuit change-over module level opens (circuit change-over module screen)

The screenshot displays the Eaton CGVision V6.30 interface. At the top, the Eaton logo and 'CGVision V6.30' are visible. Below this, there are fields for Group, System, Information, Next FT (5.5.2018 / 10:01), Manual reset (No), and Delay on mains return (0 min). The main area shows a diagram of the power source (Safty power source) and Mains, with a kWh meter and a 3 phase monitor. A central panel displays 'SU / SOU' with two indicators: '7 CO-S 2x3A' and '4 CO 1x6A'. A vertical stack of buttons on the right includes Block, Release, FT start, Manual reset, DLS/TLS/3PhW, LON-switch, Services, Print, Configuration, and Back. At the bottom, there are buttons for 'Save on SD', '3 phase monitor', 'Delay on mains ret.', 'Manual reset', 'LON RS485', and 'CG-S Bus'. The bottom status bar shows 'Group 1', 'Type AT-S+ DS', and 'System 1'. A table at the bottom left has columns for Group, System, Message, Date, and Status, with 'Acknowledge' and 'Acknowledge all' buttons.

Group	System	Message	Date	Status
Acknowledge				
Acknowledge all				

Friday, 04.05.2018 14:52:49 123

Active circuits are displayed by colour-highlighted buttons.
By clicking a button the corresponding circuit level opens (circuit screen)

The screenshot displays the Eaton CGVision V6.30 interface. At the top left is the Eaton logo. The main header reads "CGVision V6.30". Below this is a summary panel with the following fields:

- Group: [Yellow highlighted field]
- System: [Yellow highlighted field]
- Information: CGLine+ Self-contained luminaires with central monitoring
- Next FT: 5.5.2018 / 10:01
- Manual reset: No
- Delay on mains return: 0 min

In the center, a panel titled "SU / SOU 1/7" contains two columns of buttons:

- Column 1: Max. 20 Zeichen, [Green highlighted button], CG-monitoring, Per luminaire set-up, [Yellow highlighted button]
- Column 2: Max. 20 Zeichen, [Green highlighted button], CG-monitoring, Per luminaire set-up, [Yellow highlighted button]

Arrows from the text box above point to these green highlighted buttons. To the right of this panel are "Print" and "Back" buttons. At the bottom, a navigation bar shows "Group 1", "Type AT-S+ DS", and "System 1". Below the navigation bar is a table with columns for Group, System, Message, Date, and Status. The table contains one row with "Acknowledge" and "Acknowledge all" in the Message column. The footer shows the date and time: "Friday, 04.05.2018 14:53:08" and the page number "126".

5.4 Circuit screen

Text fields for information, e.g. device, location etc.

Buttons for luminaire configuration (per luminaire) see Luminaire configuration

Displays next function test and further circuit configurations

Buttons for luminaire configuration (per luminaire) see Luminaire configuration

Button for circuit configuration (see circuit configuration)

**Extended status displays for the circuit
Green = OK
Red = fault**

By clicking on the luminaire text, further luminaire texts can be called up (max. 100 characters) that were entered in configuration under 'Luminaire information'

Alarm list with confirmation option, identical to the main group screen

**Installed luminaires with NOMINAL status display (grey = off, yellow = on, red = fault)
Names (max. 20 characters) and display of switching type programming for the 2 switch inputs**

EATON CGVision V6.30

Group: _____ Next FT: 5.5.2018 / 10:01

System: _____ Manual reset: No Delay on mains return: 0 min

Circuit: Max. 20 Characters Switch 1: Per luminaire set-up Switch 2: _____

Information: Complementary information max. 100 Characters

SU / SOU		Name	Switch 1	Switch 2
1/7	1	GuideLed DXC Up	LON-switch 1	
	2	GuideLed DXC Down	Maintained light (mains)	
	3	Spare!		
	4	Spare!		
	5	Spare!		
	6	Spare!		
	7	Spare!		
	8	Spare!		
	9	Spare!		
	10	Spare!		
	11	Spare!		
	12	Spare!		
	13	Spare!		
	14	Spare!		
	15	Spare!		
	16	Spare!		
	17	Spare!		
	18	Spare!		
	19	Spare!		
	20	Spare!		

Notice: Information Luminaire 1: GuideLed DXC 8 Watt, Mounting hight 5 m! Ladder necessary!

Buttons: Fuse AC, Overload, Circuit 2, Print, Configuration, Back

Group: 1 Type: AI-S+DS System: 1

Acknowledge	Group	System	Message	Date	Status
Acknowledge all					
	Friday, 04.05.2018			14:56:01	127

5.5 Circuit configuration

With the 'Circuit monitoring' method of monitoring, deviation can be specified in %

Specification of the monitoring type for the circuit

Circuit name and supplementary information

'Overview' gives you a table of all luminaires of the circuit with specification of their programmed switching type

Circuit configuration (Group 1 / System 1)

SKU: 1/7 SKU-Type: SKU CG-S 2x3A

Circuit: 1 Circuit: 2

Name:

Information:

Monitoring: CG-monitoring
 Current value monitoring Current value deviation % (1-99%)
 Reserve

Switch 1

Non-maintained light

Maintained light (mains)

Per luminaire set-up

Timer 1

Timer 2

Timer 1+2

LON-switch

Function keys

Option inputs

DLS

TLS

3 phase monitor

No.	Relea	Name	Switch 1	Switch 2	VA	W	Cate	Information
1	<input checked="" type="checkbox"/>	GuideLed DXC Up	LON-switch 1	No function	0,0	0,0		GuideLed DXC 8 Watt, Mounting hig...
2	<input checked="" type="checkbox"/>	GuideLed DXC Down	Maintained light	No function	0,0	0,0		
3	<input type="checkbox"/>	SKU1/7 CIR25 LUM 3	Maintained light	No function	0,0	0,0		
4	<input type="checkbox"/>	SKU1/7 CIR25 LUM 4	Maintained light	No function	0,0	0,0		
5	<input type="checkbox"/>	SKU1/7 CIR25 LUM 5	Maintained light	No function	0,0	0,0		
6	<input type="checkbox"/>	SKU1/7 CIR25 LUM 6	Maintained light	No function	0,0	0,0		
7	<input type="checkbox"/>	SKU1/7 CIR25 LUM 7	Maintained light	No function	0,0	0,0		
8	<input type="checkbox"/>	SKU1/7 CIR25 LUM 8	Maintained light	No function	0,0	0,0		
9	<input type="checkbox"/>	SKU1/7 CIR25 LUM 9	Maintained light	No function	0,0	0,0		
10	<input type="checkbox"/>	SKU1/7 CIR25 LUM ...	Maintained light	No function	0,0	0,0		
11	<input type="checkbox"/>	SKU1/7 CIR25 LUM ...	Maintained light	No function	0,0	0,0		
12	<input type="checkbox"/>	SKU1/7 CIR25 LUM ...	Maintained light	No function	0,0	0,0		
13	<input type="checkbox"/>	SKU1/7 CIR25 LUM ...	Maintained light	No function	0,0	0,0		
14	<input type="checkbox"/>	SKU1/7 CIR25 LUM ...	Maintained light	No function	0,0	0,0		
15	<input type="checkbox"/>	SKU1/7 CIR25 LUM ...	Maintained light	No function	0,0	0,0		
16	<input type="checkbox"/>	SKU1/7 CIR25 LUM ...	Maintained light	No function	0,0	0,0		
17	<input type="checkbox"/>	SKU1/7 CIR25 LUM ...	Maintained light	No function	0,0	0,0		
18	<input type="checkbox"/>	SKU1/7 CIR25 LUM ...	Maintained light	No function	0,0	0,0		
19	<input type="checkbox"/>	SKU1/7 CIR25 LUM ...	Maintained light	No function	0,0	0,0		
20	<input type="checkbox"/>	SKU1/7 CIR25 LUM ...	Maintained light	No function	0,0	0,0		

Switch 2

Maintained light (batt.)

LON-switch

Function keys

Option inputs

DLS

TLS

3 phase monitor

install. power VA W

Circuit programming with switches 1 and 2

If the circuit has been programmed 'via luminaire setup', then up to 20 luminaires in the right hand field can be selected according to their switching type. Clicking on the luminaire numbers 1 - 20 opens the luminaire configuration. (see next page)

5.6 Luminaire configuration

Specification of luminaire number, name (max. 20 characters) and entry possibility for further information about the luminaire, e.g. for lamp type, mounting height etc. (max. 100 characters)

The screenshot shows the 'Luminaire configuration' window. At the top, there is a blue header with the title 'Luminaire configuration'. Below it, the configuration is organized into several sections:

- Luminaire 1**: A label followed by the number '1'.
- Name**: A text input field containing 'GuideLed DXC Up'.
- Information**: A larger text input field containing 'GuideLed DXC 8 Watt, Mounting hight 5 m! Ladder necessary!'.
- Category**: A dropdown menu.
- VA**: A text input field containing '0,0'.
- W**: A text input field containing '0,0'.

Below these fields are two main sections for switching configuration:

- Lighting Mode**: Three radio buttons: 'With out CG-S (maintained light)', 'Non-maintained light', and 'Maintained light'.
- Switch 1**: A group of radio buttons: 'Timer 1', 'Timer 2', 'Timer 1+2', 'LON-switch' (which is selected), 'Function keys', 'Option inputs', and 'DLS'. The 'LON-switch' option has a dropdown menu showing '1'.
- Switch 2**: A group of radio buttons: 'No function' (which is selected), 'LON-switch', 'Function keys', 'Option inputs', and 'DLS'. Each of these options has a dropdown menu.

At the bottom of the window, there are three buttons: 'PC --> AT-S+', 'PC <-- AT-S+', and 'Cancel'.

Specification of the switching type and the switching assignment of the luminaire
- For explanation see the device operating instructions

The above example shows programming of the luminaire to
Switch 1 = LON-switch 1
and Switch 2 = No function.

5.7 General display options

The status of devices or components is displayed in colour in all screens.

- Green signifies 'OK'
- Red signifies 'fault' in the affected area
- Yellow signifies 'switched on or test active, e.g. circuit is switched on, functional test active'
- Grey signifies 'switched off', e.g. luminaire is switched off 'standby light'

Examples:

The screenshot shows the main CGVision V6.30 interface. At the top, there are fields for Group, System, and Information. The Information field shows 'CGLine+ Self-contained luminaires with central monitoring'. On the left, there are control buttons for Operation, FT, Blocked, and Failure. The main area displays a schematic diagram of the power source, AC, Mains, and kWh meters. A red 'X' is overlaid on the SU/SOU module, indicating a fault. A callout box points to this red 'X' with the text 'Fault in SU or SOU module'. Another callout box points to a green indicator on the SU/SOU module with the text 'SU or SOU module OK (green)'. At the bottom, there is a table of messages. A callout box points to a red message in the table with the text 'Luminaire fault (red)'. On the far left, a callout box points to the right mouse click area with the text 'With right mouseclick: Open of the explore view'. On the right side, there are several blue buttons: Back, Release, FT start, Manual reset, DLS/TLS/3PHW, LON-switch, Services, Print, Configuration, and Back.

The screenshot shows the circuit configuration screen in CGVision V6.30. It displays a table of luminaires with columns for Name, Switch 1, and Switch 2. The first two rows are highlighted in red, indicating faults. Callout boxes point to these rows with the text 'Luminaire No. 1 switched off (grey)' and 'Luminaire No. 2 fault (red)'. Another callout box points to the alarm list at the bottom with the text 'Fault display in plain text in alarm list (red)'. The interface includes fields for Group, System, Circuit, and Information. There are also buttons for Delay on mains ret., Fuse AC, and Overload. At the bottom, there are buttons for Circuit 2, Print, Configuration, and Back. The alarm list at the bottom shows a red message for 'FT fault'.

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Installation and operating instructions
Visualisation and monitoring software
CGVision and CEAG OPC server

For the monitoring and control of
CEAG emergency lighting systems

CGVision ab V6.30

40071347387 (M)



Section 6
LP-STAR device family

6 LP-STAR device family

6.1 Configuring a LP-STAR system group

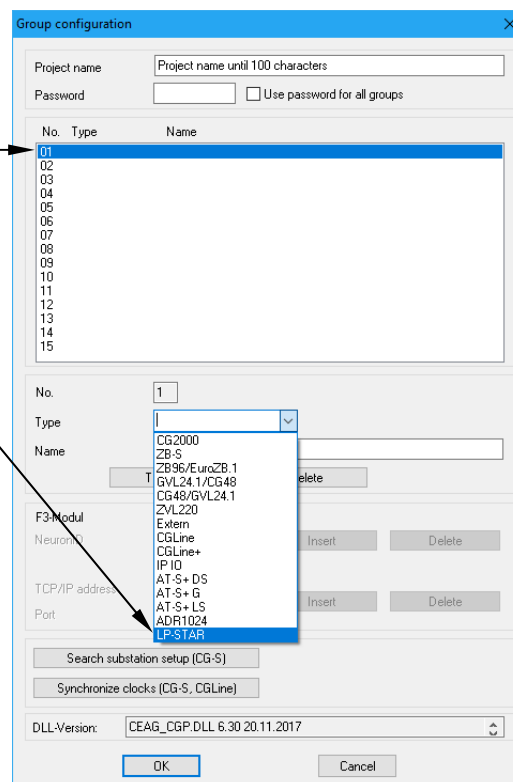
6.1.1 Configuring a LP-STAR system group:

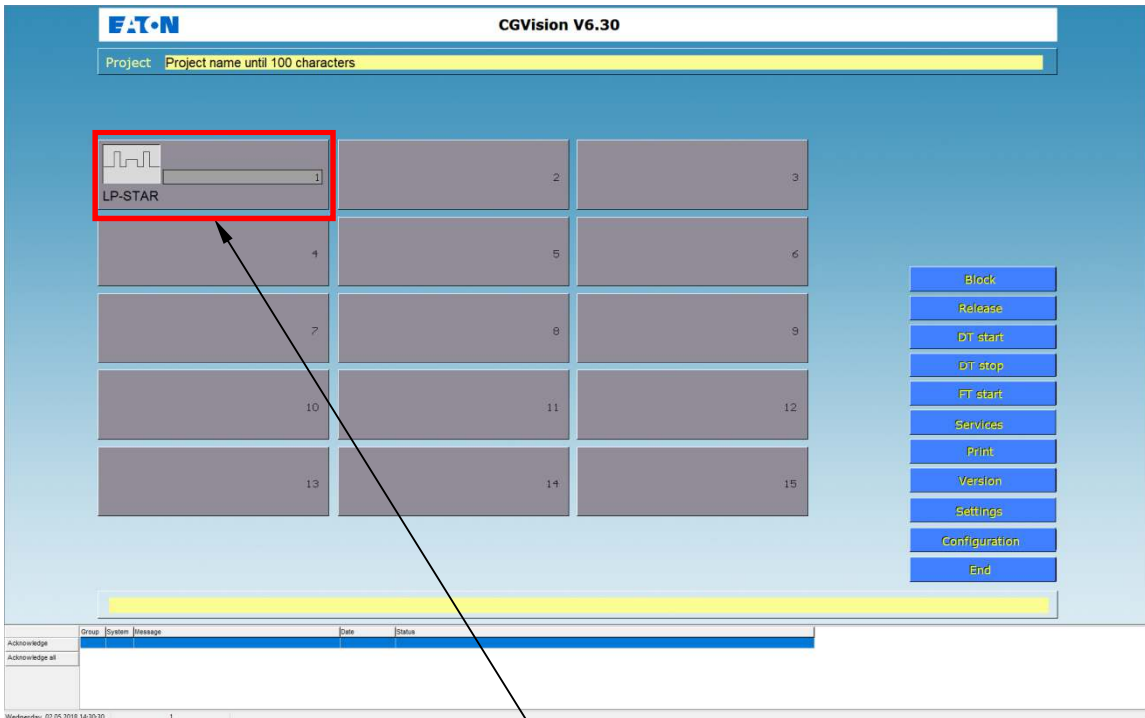


A new device family, e.g. LP-STAR, can be created via the 'Configuration' menu.

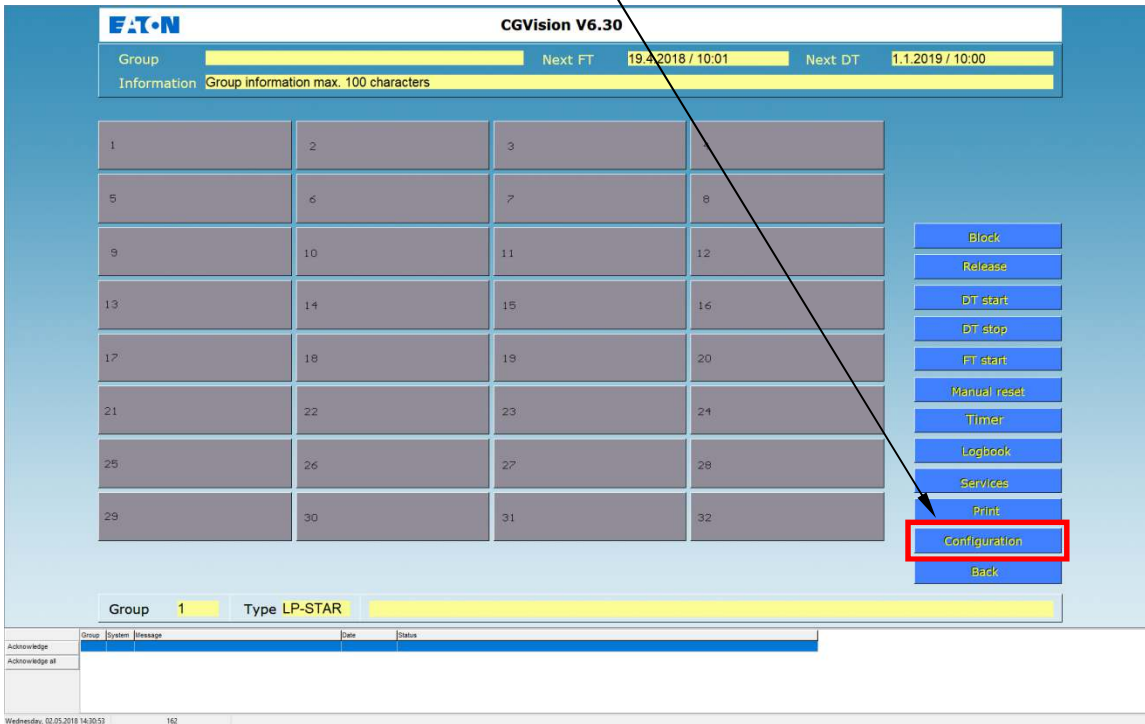
The group configuration menu then appears:

- In the group selection window a system group can be defined by selecting the corresponding group number (marked blue)
- In the 'Type' drop-down menu the system type 'LP-STAR' can be selected and a system group name can be assigned
- Confirm with 'Accept', define further groups or exit with 'OK'





The system group has now been added. If this group is clicked on, the system group screen is displayed.
Up to 32 devices can now be created via the 'Configuration' menu



The system configuration menu then appears:

a) In the device selection window a system can be defined by selecting the corresponding device address (marked blue)

Important: the device address must correspond with the address of the ZB-S!
(see point c)

b) LP-STAR system type

c) The 12-character Neuron ID of the device must now be entered.

1. Via the new search tool (network scan) as described below

2. Manual entry

The Neuron ID can be read out in the control unit menu 'Basic settings' → 'Connection to GLT'.

Here the device address for point a) can also be read out or set.

Confirm with 'Accept', add further groups in the same way or exit with 'OK'

Automatic restarting of CGVision is now required.

No.	Type	Name
01		
02		
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		

Here is possible to set a password for access protection

about the first entry of the Neuron ID via the new search tool:

The simplest method to add systems in CGVision is offered by a new search tool that carries out a network scan on the CG-S bus and lists all systems with a Neuron ID. To start the search tool, the desired device address (in the example address 01, marked blue above) must be selected and then the 'NeuronID' button clicked on.

Please note, with use of a CG-S/USB interface box:

the new search tool only functions with the CG-S/USB interface box with blue end caps.

The CEAG search tool opens in a new window

1. The LON interface must be set to xxx0, e.g. with LONUSB to LONUSB0, according to which interface is used. In the example below with LONIP, the interface must therefore be set to LONIP0.
The length must be set to 0, the subnet to a number between 1 and 255 and the node to between 1 and 127
-Save these settings by clicking on 'Accept'.

2. 'LP-STAR' must be activated

CEAG LON-Suchtool 22.05.2014 V1.07

Buttons: Store result, Load file, Wait for service PIN, End Wait for service PIN, Send Wink to selected node, Delete result, Scan (highlighted), Apply, Cancel

LON-Interface: LONIP0

Length: 0 1 3 6

Subnet: 255

Node: 127

Show: All, CG2000, REL, ZB-S, AT-S+, LP-STAR

Scan for Subnet/Node: Subnet: 0, Node: 0

Neuron-ID	Prog-ID	Name	System adr.	Domain 0	Subnet 0	Node 0	Domain 1	Subnet 1	Node 1
Scan result table (empty)									

System number 0 CG2000 0 ZB-S 0 AT-S+ 0 Systems found 0
Other 0 FEL 0 LP-STAR

The network scan can now be started with 'Search'. With correct bus installation, all LP-STAR systems found are now listed (next screen)

The network scan may take some minutes according to the quantity of installed CG-S systems (ZB-S/AT-S+/LP-STAR/CG2000).

All LP-SAR devices found are specified in the 'search results' list.
As information, the Neuron ID, the software version Z271 with state, the system types LP-STAR, the device name (20 characters, from the control unit) and the device address 1 to 32 are displayed.
The required LP-STAR with the correct Neuron ID and device address must now be selected, marked blue.

Neuron-ID	Prog-ID	Name	System adr.	Domain 0	Subnet 0	Node 0	Domain 1	Subnet 1	Node 1
0702544bb000	Z271.0	(LP-STAR)	1	--	0	1	02	1	1

System number	5	CG2000	0	ZB-S	1	AT-S+ 0	Systems found	5
		Other	2	REL	1	LP-STAR 1		

'Accept' automatically copies the NeuronID into the LP-STAR configuration (next screen)

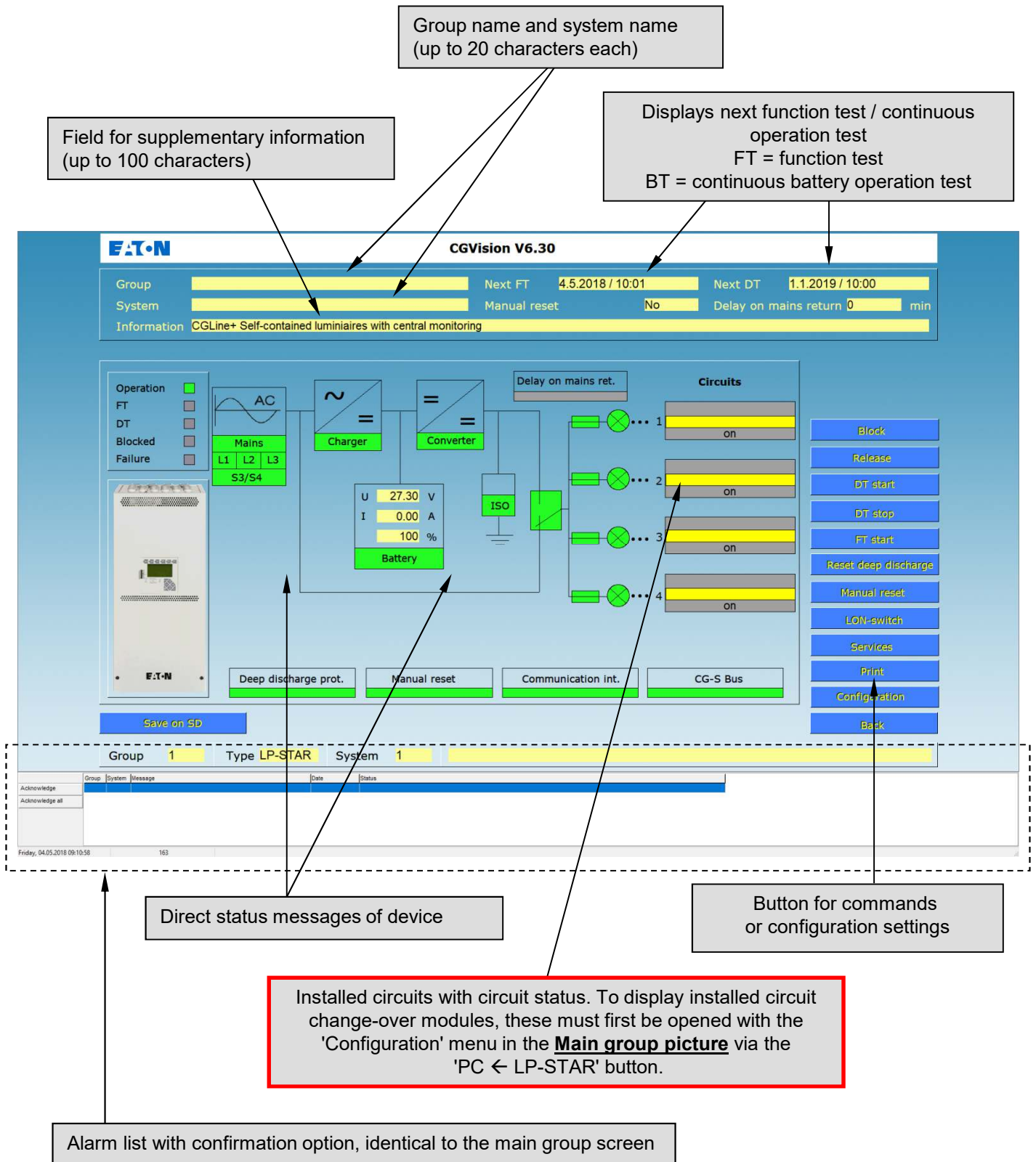
Because the network scan may take some minutes (according to the number of devices), it is possible to save this result locally via "Save results".
With the next LP-STAR system, the result is more rapidly loaded via 'Open file' instead of a network scan.

The NeuronID is now automatically transferred for the system. By clicking on 'Accept' a new device can be added in a similar way. When all LP-STAR`s are added to this group, clicking on 'OK' saves all modifications. A CGVision restart then follows.

After the CGVision restart the added devices are displayed with type designation in the assigned button. This button is now active and displays the current status via colour designation according to operational state, e.g. green = operational, red = fault, yellow = function test or continuous operation test active. By clicking the group button the next screen opens, 'Device screen' .

6.2 ,LP-STAR device screen'

6.2.1 Structure of the device screen:



6.2.2 Function buttons:

Button functions for command or configuration settings

The screenshot displays the EATON CGVision V6.30 control interface. At the top, there is a status bar with the following information: Group (blank), System (blank), Next FT (4.5.2018 / 10:01), Next DT (1.1.2019 / 10:00), Manual reset (No), and Delay on mains return (0 min). Below this, the main control area features a schematic diagram of the power system, including AC input, Mains (L1, L2, L3, S3/S4), Charger, Converter, Battery (U: 27.30 V, I: 0.00 A, 100%), and ISO. To the right of the schematic is a 'Circuits' section with four on/off switches. A vertical column of blue buttons is located on the right side of the interface, including 'Block', 'Release', 'DT start', 'DT stop', 'FT start', 'Reset deep discharge', 'Manual reset', 'LON-switch', 'Services', 'Print', 'Configuration', and 'Back'. At the bottom, there are fields for Group (1), Type (LP-STAR), and System (1), and a table for 'Acknowledge'.

- a). 'Layout'
Calling up of the first available luminaire layout of the device
(option must be authorised via a dongle, available separately.)
- b). 'Block'
The device is blocked
- c). 'Release'
The blocked device is released
- d). 'DT Start'
A BT test (continuous operation test) is carried out for the device.
- e). 'DT Stop'
BT test is aborted for the device.
- f). 'FT Start'
An FT test (function test) is carried out for the device.
- g). 'Reset deep discharge protection'
Confirmation of a total discharge protection
- h). 'Manual reset'
This enables the device responding to manual resetting to be reset.
- i). 'LON switch'
Menu for connecting external LON switches
- j). 'Services'
Various services for the inspection book and for configuration
- k). 'Print'
A screenshot of the current screen is printed
- l). 'Configuration'
Configuration settings for all data on the device screen
- m). 'Back'
Return to system group screen

i). 'LON switch' Menu for connecting external LON switches

EATON CGVision V6.30

Group: [] Next FT: 4.5.2018 / 10:01 Next DT: 1.1.2019 / 10:00
 System: [] Manual reset: No Delay on mains return: 0 min
 Information: CGLine+ Self-contained luminaires with central monitoring

LON-switch

1	Spare!	[]
2	Spare!	[]
3	Spare!	[]
4	Spare!	[]
5	Spare!	[]
6	Spare!	[]
7	Spare!	[]
8	Spare!	[]
9	Spare!	[]
10	Spare!	[]
11	Spare!	[]
12	Spare!	[]
13	Spare!	[]
14	Spare!	[]
15	Spare!	[]
16	Spare!	[]

Print
Configuration
Back

Group: 1 Type: LP-STAR System: 1

Group	System	Message	Date	Status

Friday, 04.05.2018 09:15:11 15

Configuration of external LON sensors:

Up to 16 external LON sensors (e.g. switch) can be assigned. Assignment, contrary to LP-STAR, is independent of the assignment of the DLS addresses.

To be able to use the 'LON switch' function in the LP-STAR device in the menu:
Basic settings // Connection to GLT
 --> *LON switch: YES*
 must be activated.

This can also be activated in CGVision under l.) 'Configuration' of the device.

An integration of external LON sensors must be carried out by an authorised LON Integrator.

LON-switch (Group 01 / System 01)

No.	inst.	Name
1	-	
2	-	
3	-	
4	-	
5	-	
6	-	
7	-	
8	-	
9	-	
10	-	
11	-	
12	-	
13	-	
14	-	
15	-	
16	-	

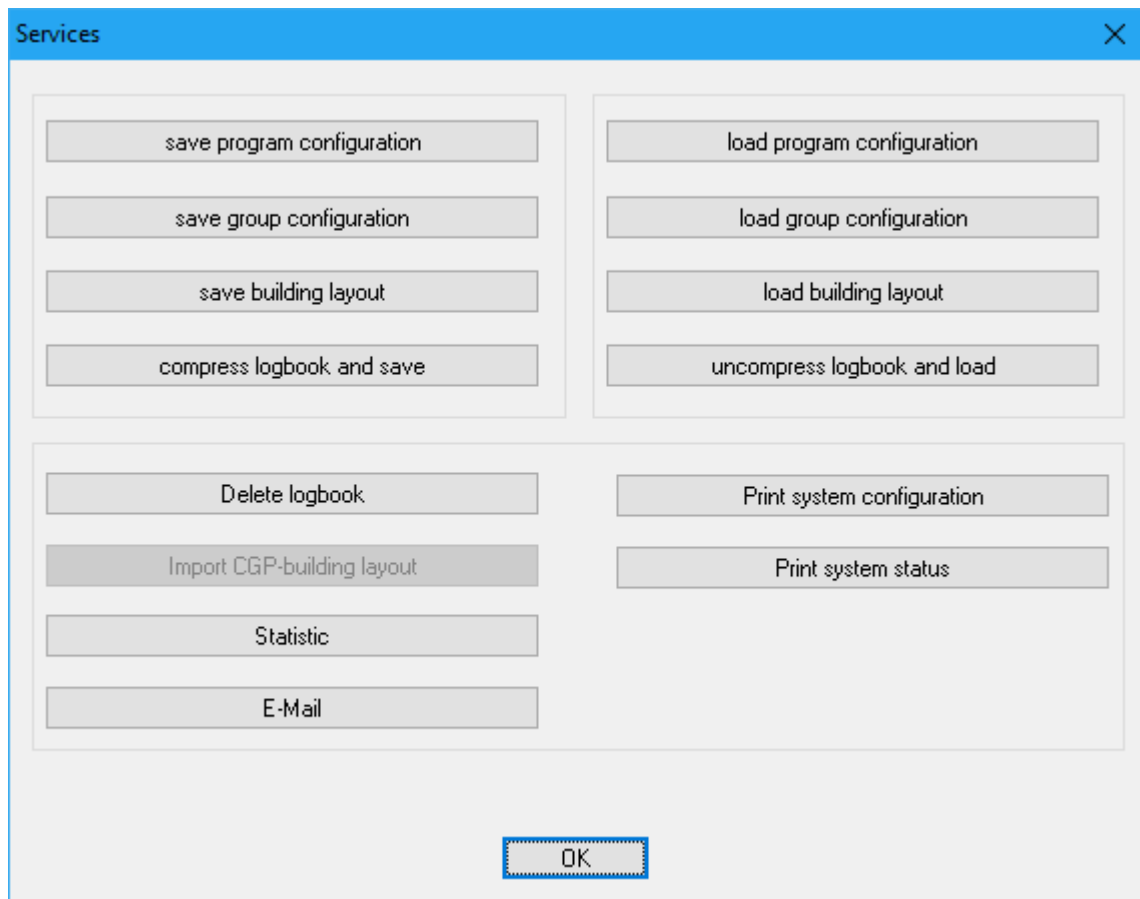
No. []
 Name []

Take over Delete

OK Cancel

k). 'Services'

Various services for the inspection book and for configuration



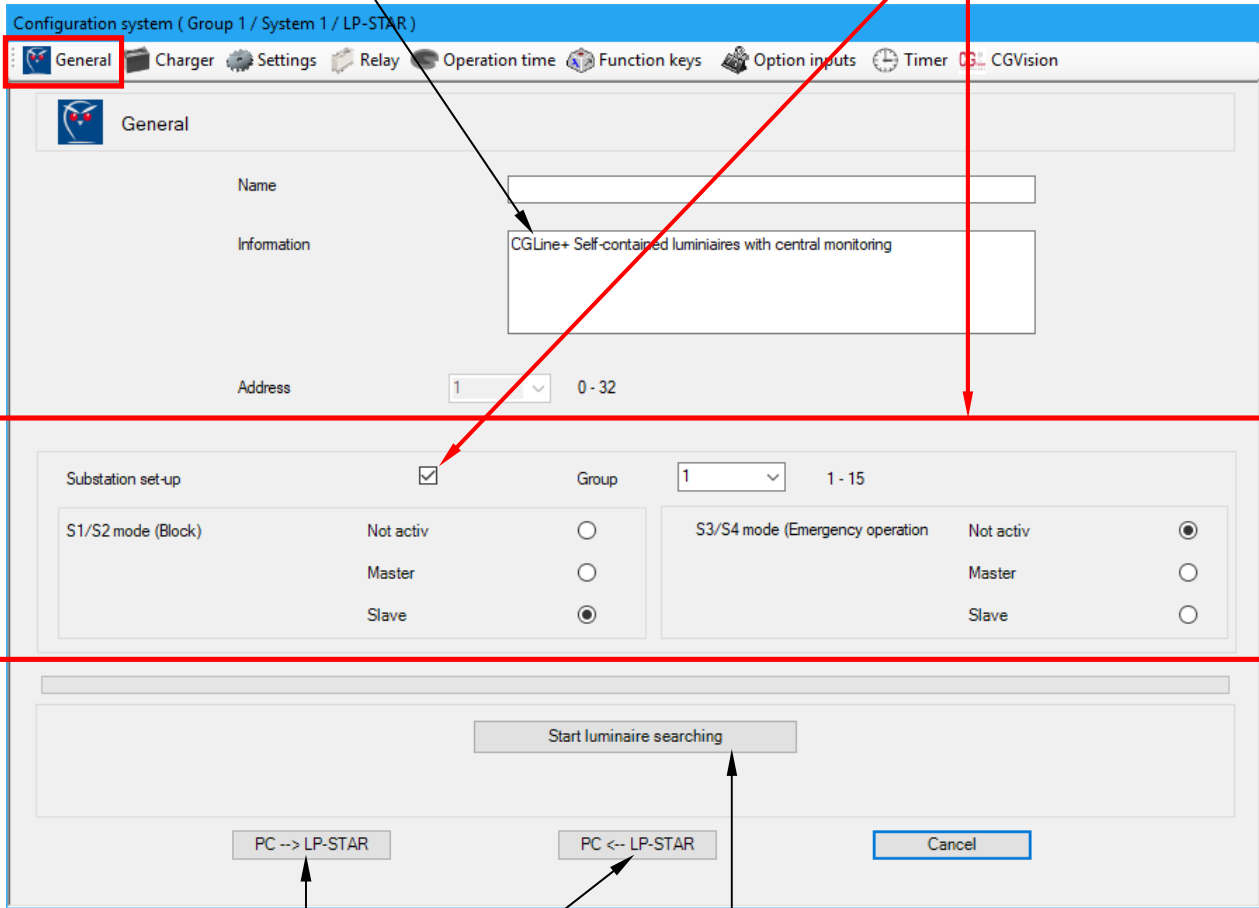
The 'Services' menu is identical with the 'Services' menu in the system group screen, apart from clicking on Status only relates to the individual system.

You can find a detailed description to the 'Services' menu for saving and opening of program configurations/group configurations in Section 'System group screen', j) 'Services'.

m). 'Configuration of system' (device)
a). General

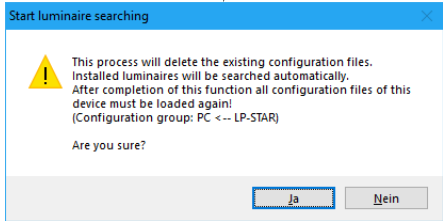
Entry of device name and supplementary information

The substation setup has to be deactivated, if CGVision is used!
Mailfunctions could occur!

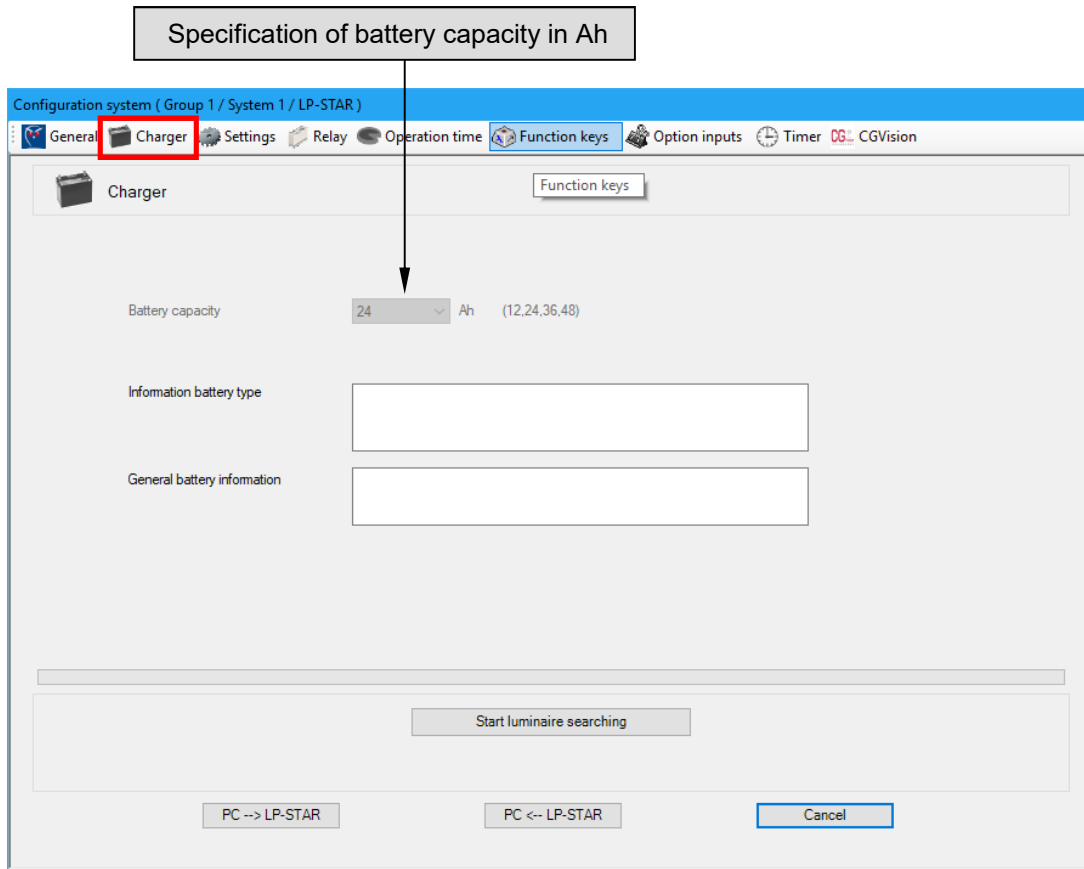


With the button 'PC --> LP-STAR', all modified settings for this screen can be sent to the device. With the button 'PC <-- LP-STAR', the current configurations in the device (control unit!) can be downloaded to the PC.
To open the complete system configuration, the configuration must be opened via the system group screen

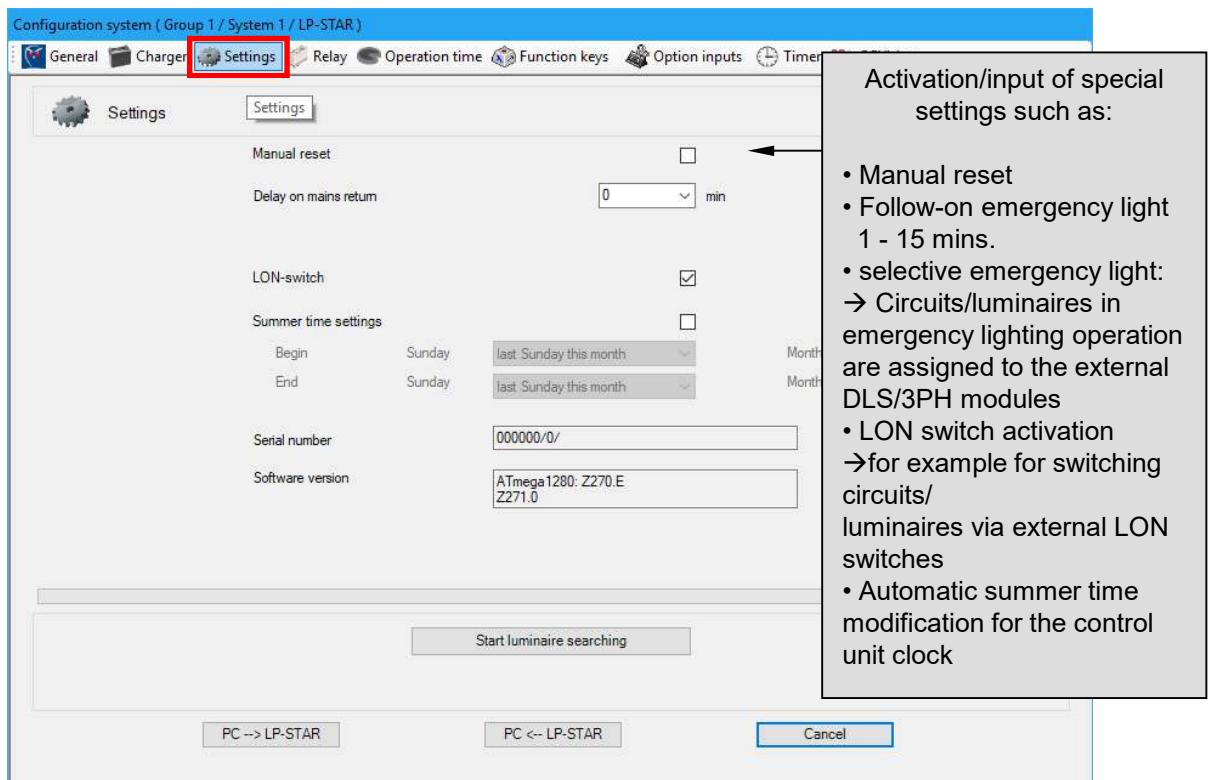
Option: Luminaire search
Button for starting 'Start luminaire search' as possible on the device.
It must be considered though that after implementing these functions the configuration data of the device must be reopened. The following windows appear:



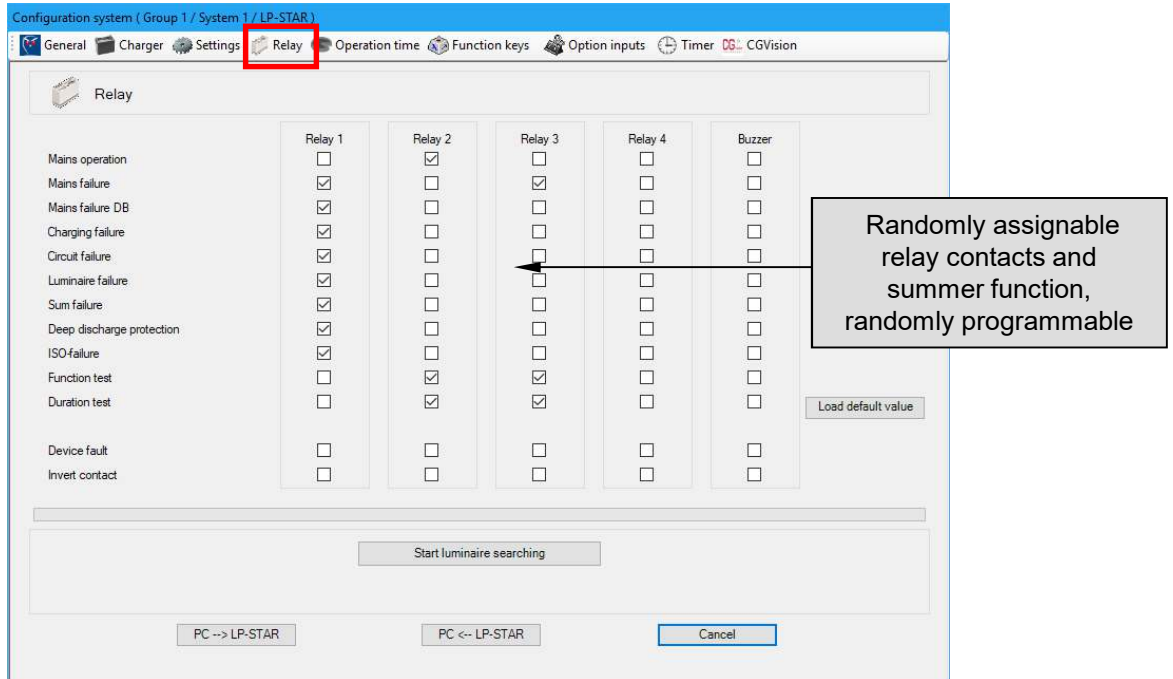
about m. 'Configuration of system' (device)
b). Charger



c). Settings



about m. 'Configuration of system' (device)
d). Relay



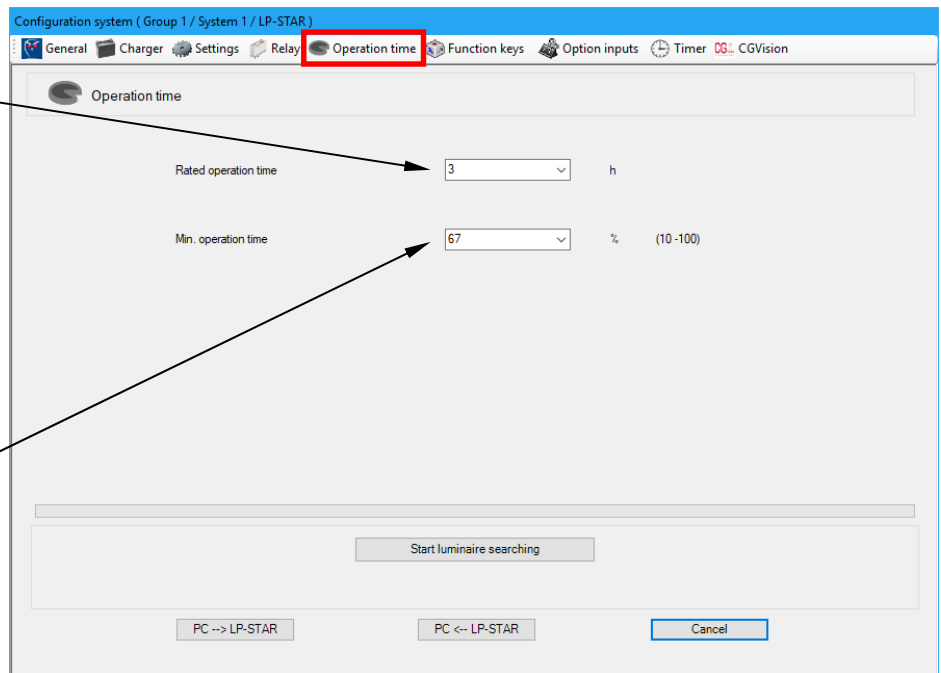
e). Operation time

Specification of operating time (battery operation):

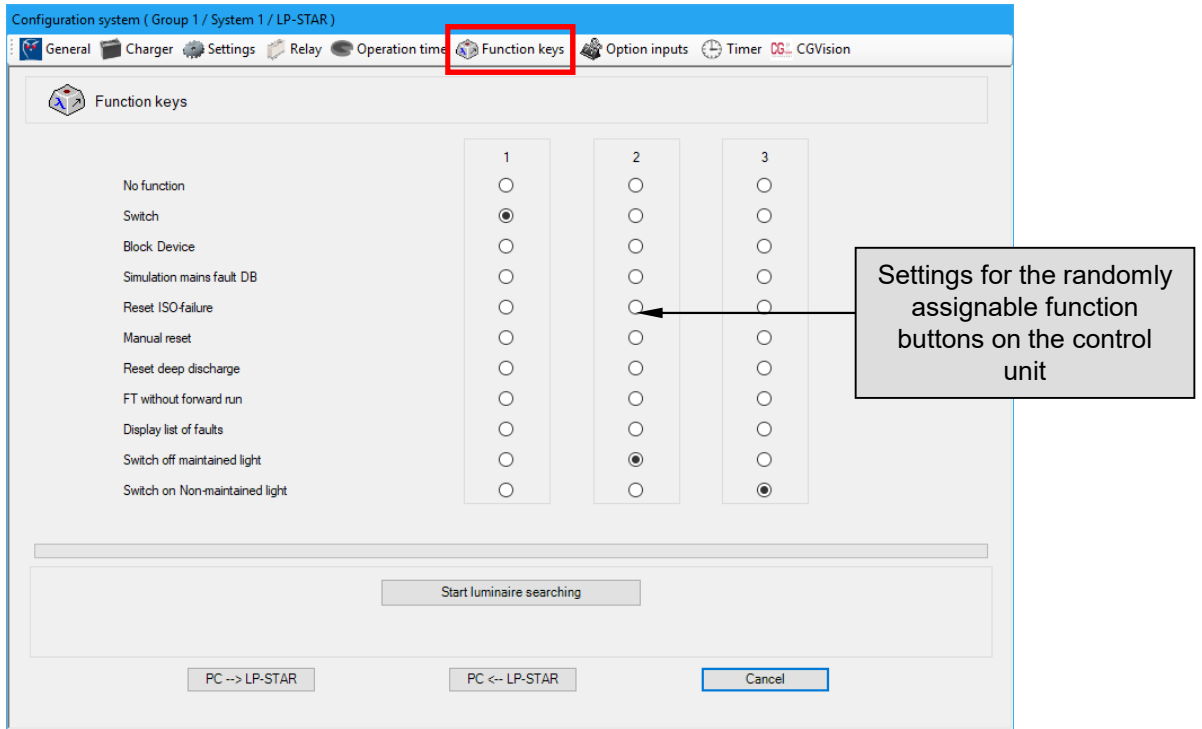
- 1 - hour
- 2 - hour
- 3 - hour
- 8 - hour

Specification of limit operating time for a continuous operation test: 0 - 100 %.

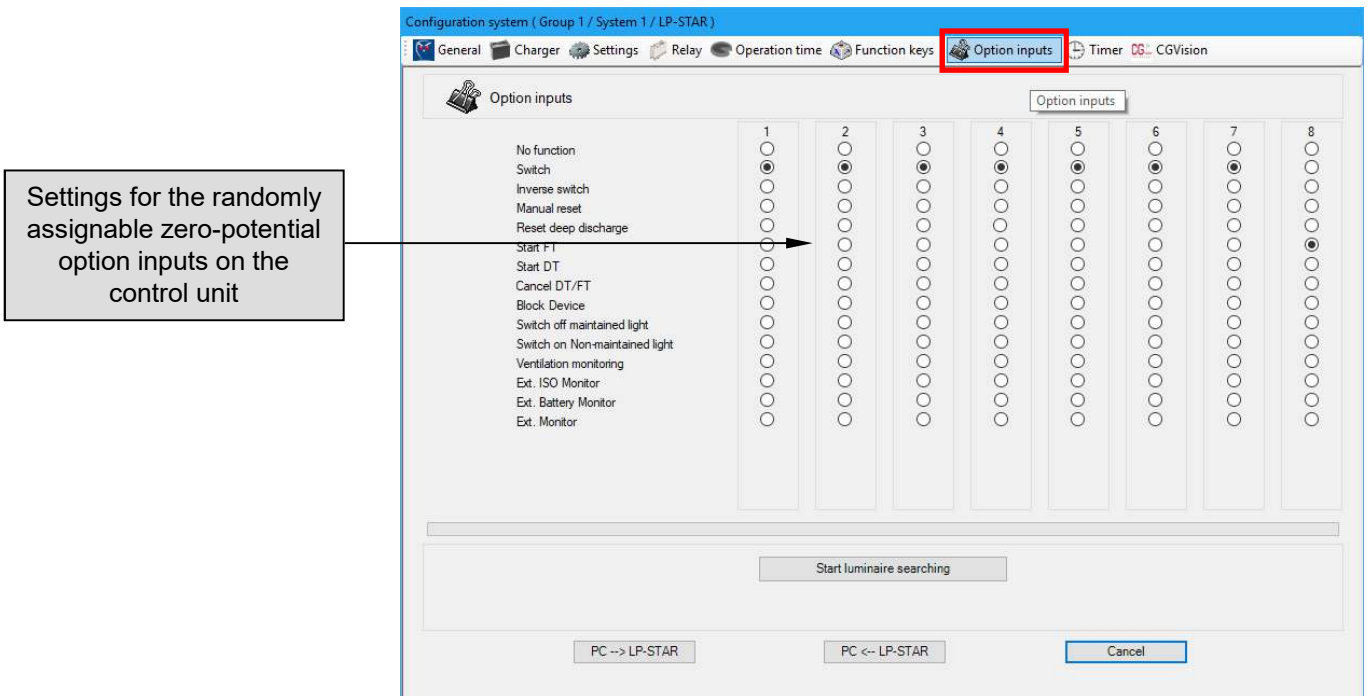
The standard is:
continuous operation test
= rated operating time



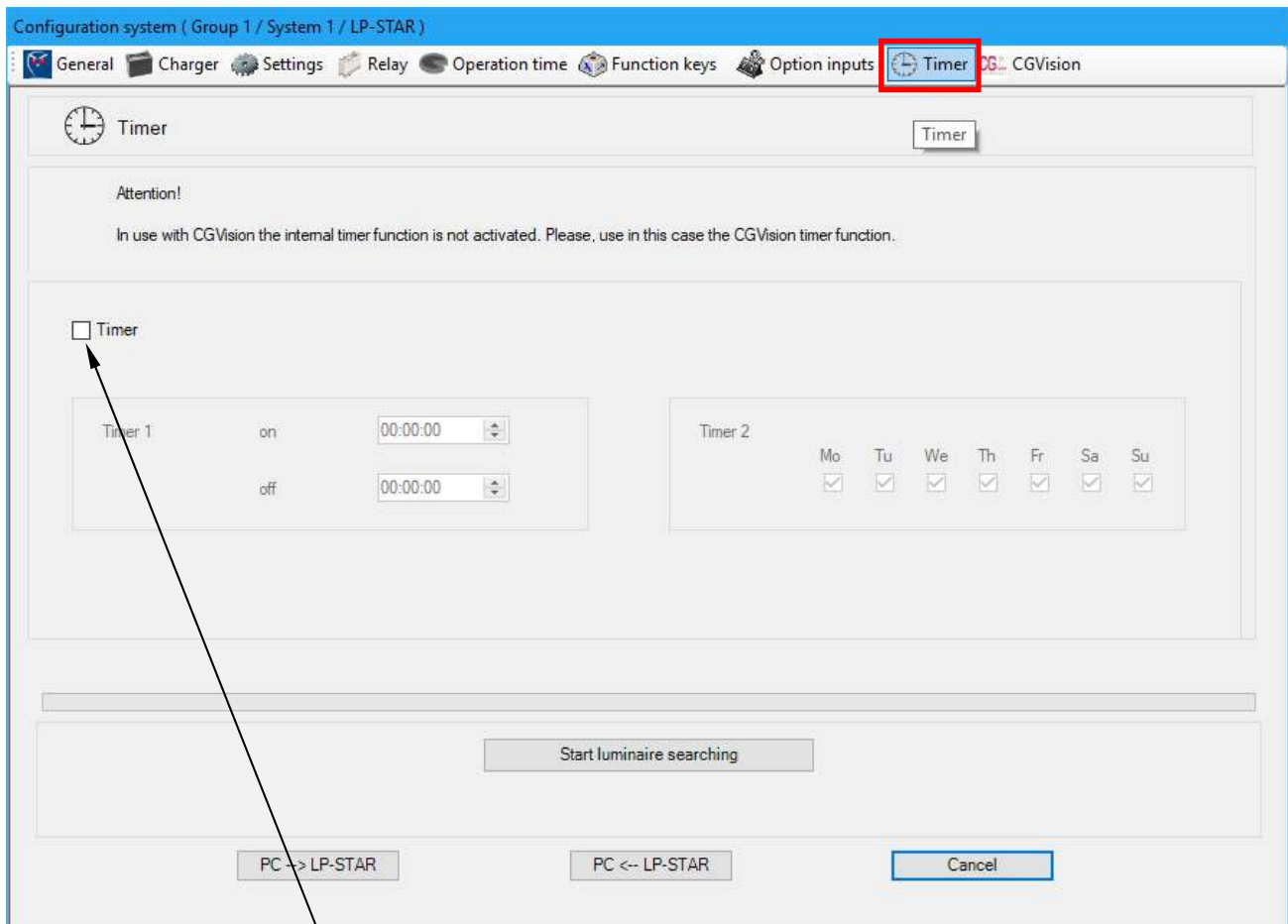
about m. 'Configuration of system' (device)
 f). Function keys



g). Option inputs




about m. 'Configuration of system' (device)
f). Timer

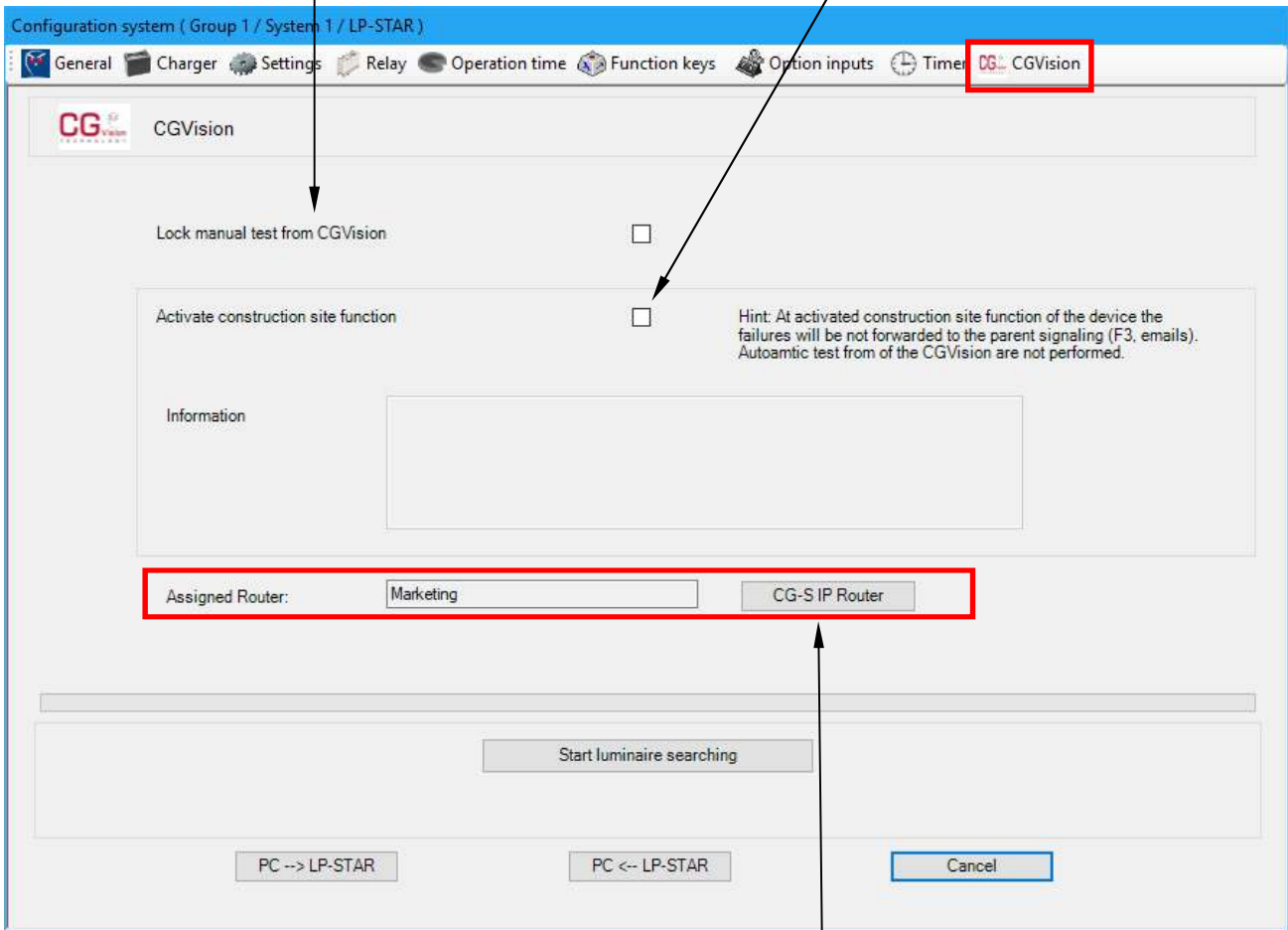


With operation with CGVision the internal timer function of the ST-S control unit is deactivated. Timer control is implemented in CGVision according to Section System group screen h.) Timer

**about m. 'Configuration of system' (device)
g). CG Vision**

This function deactivates the manual tests (FT and BT) of the CGVision. The buttons in the mimic are hidden. Manual tests directly on the system are still possible.

If the construction site function is activated, automatic tests are no longer carried out by CGVision. This is used if work is being carried out on installations or in the areas. A construction site sign then appears in the system pictures: 



An IP router administration can be set up here. For more information see the following pages

6.2.3 CG-S/ IP-Router administration

The CG-S/IP router administration enables a clear display of the CG-S/IP routers installed in the network. The CG-S/IP routers can then be assigned to installations in order to locate them quickly.

The data of the installed CG-S/IP routers can be created in the "CG-S/IP router" menu. The corresponding configuration server can be marked with a check mark.

After "Accept" the next line can be activated in the right field to create the next CG-S/IP router.

CG-S/IP Router (Gruppe 1 / Anlage 1)

Zuordnung CG-S IP Router - Anlagen **CG-S IP Router**

Typ: CG-S / IP-Router- 1P V2

Lokaler Hostname: Marketing

Information: CG-S/IP-Router zur Musteranlage

Gebäude: Halle 1

Standort: Raum 1152

ID: Seriennummer Gerät:

MAC address: 00 00 00 00 00 00

DHCP:

TCP/IP Adresse: 192 168 1 250

Mask: 255 255 255 0

Gateway: . . .

Konfig. Server:

Übernahme Löschchen

Mac-Adresse als Namen verwenden

Typ	Lokaler Hostname	Information	Gebäude	Standort	ID	MAC address	DHCP	TCP/IP Adresse	Gateway	Mask	Konfig. Serv.

Drucken Beenden

In the "CG-S/IP Router assignment" menu, the system can be spatially assigned to the corresponding IP router by "dragging" it with the mouse.

CG-S/IP Router (Gruppe 1 / Anlage 1)

Zuordnung CG-S IP Router - Anlagen CG-S IP Router

CG-S IP Router

Marketing

CG-S / IP-Router- 1P V2
00-00-00-00-00-00
CG-S/IP-Router zur Musteranlage

Nicht zugeordnete Anlagen

Gruppe	Anlagennummer	Anlagentyp	Anlagenname	Anlageninformation	NeuronID
1		ZB-S		CGLine+ Self-contained luminaires with central monitoring	0702594#f00

Drucken Beenden

6.3 Circuit change-over module screen

Installed circuit change-over modules are displayed by colour-highlighted buttons. By clicking a button the corresponding circuit change-over module level opens (circuit change-over module screen)

The screenshot displays the EATON CGVision V6.30 software interface. At the top, there is a header with the EATON logo and the title 'CGVision V6.30'. Below this, a status bar shows system information: 'Group', 'System', 'Next FT' (5.5.2018 / 10:01), 'Next DT' (1.1.2019 / 10:00), 'Manual reset' (No), and 'Delay on mains return' (0 min). The main area features a schematic diagram of the power system, including 'Mains' (L1, L2, L3, S3/S4), a 'Charger', a 'Converter', a 'Battery' with voltage (U) and current (I) indicators, and an 'ISO' (isolation) component. To the right of the diagram is a 'Circuits' section with four buttons labeled '1 on', '2 on', '3 on', and '4 on', all highlighted in yellow. A 'Delay on mains ret.' box is also present. On the left, there are control buttons for 'Operation', 'FT', 'DT', 'Blocked', and 'Failure'. At the bottom, there are buttons for 'Deep discharge prot.', 'Manual reset', 'Communication int.', and 'CG-S Bus'. A 'Save on SD' button is located below the diagram. On the far right, a vertical column of blue buttons includes 'Block', 'Release', 'DT start', 'DT stop', 'FT start', 'Reset deep discharge', 'Manual reset', 'LON-switch', 'Services', 'Print', 'Configuration', and 'Back'. At the bottom of the interface, there is a table for system messages:

Group	System	Message	Date	Status
Acknowledge		Transmission failed 11.5	07.05.18 11:28:50	OK
Acknowledge all				

At the very bottom left, the text 'Friday, 04.05.2018 14:22:58' and the number '163' are visible.

6.4 Circuit screen

The screenshot shows the EATON CGVision V6.30 interface. At the top, there are fields for Group, System, and Circuit, along with Next FT (5.5.2018 / 10:01), Next DT (1.1.2019 / 10:00), Manual reset (No), and Delay on mains return (0 min). Below this is a table of 20 luminaires with columns for Name, Switch 1, and Switch 2. The first three are 'Maintained light', and the rest are 'Spare!'. A 'Notice' dialog box is open over the table, displaying 'Information Luminaire 1: GuideLed DXC 8 Watt, Mounting height 5 m! Ladder necessary!'. On the left, there are buttons for 'CG-monitoring on', 'Delay on mains ret.', 'Fuse', 'Overload', and 'Current i<Imin'. On the right, there are 'Print', 'Configuration', and 'Back' buttons. At the bottom, there is an alarm list table with columns for Group, System, Message, Date, and Status.

Text fields for information, e.g. device, location etc.

Buttons for luminaire configuration (per luminaire) see Luminaire configuration

Displays next function test / continuous operation test and further circuit configurations

**Extended status displays for the circuit
Green = OK
Red = fault**

By clicking on the luminaire text, further luminaire texts can be called up (max. 100 characters) that were entered in configuration under 'Luminaire information'

Alarm list with confirmation option, identical to the main group screen

**Installed luminaires with NOMINAL status display (grey = off, yellow = on, red = fault)
Names (max. 20 characters) and display of switching type programming for the 2 switch inputs**

Button for circuit configuration (see circuit configuration)

6.6 Circuit configuration

With the 'Circuit monitoring' method of monitoring, deviation can be specified in %

Specification of the monitoring type for the circuit

'Overview' gives you a table of all luminaires of the circuit with specification of their programmed switching type

Circuit name and supplementary information

Circuit configuration (Group 1 / System 1)

LP-STAR

Circuit: 1 | **Circuit: 2** | Circuit: 3 | Circuit: 4

Name:

Information:

Monitoring: CG-monitoring
 Current value monitoring Current value deviation % (1-99%)
 Reserve

Switch 1

Non-maintained light

Maintained light

Per luminaire set-up

Timer 1

Timer 2

Timer 1+2

LON-switch

Function keys

Option inputs

No.	Relea	Name	Switch 1	Switch 2	VA	W	Cate	Information
1	<input checked="" type="checkbox"/>		Maintained light	No function	0,0	0,0		
2	<input checked="" type="checkbox"/>		Maintained light	No function	0,0	0,0		
3	<input checked="" type="checkbox"/>		Maintained light	No function	0,0	0,0		
4	<input type="checkbox"/>	Circuit 2 Lum 4	Maintained light	No function	0,0	0,0		
5	<input type="checkbox"/>	Circuit 2 Lum 5	Maintained light	No function	0,0	0,0		
6	<input type="checkbox"/>	Circuit 2 Lum 6	Maintained light	No function	0,0	0,0		
7	<input type="checkbox"/>	Circuit 2 Lum 7	Maintained light	No function	0,0	0,0		
8	<input type="checkbox"/>	Circuit 2 Lum 8	Maintained light	No function	0,0	0,0		
9	<input type="checkbox"/>	Circuit 2 Lum 9	Maintained light	No function	0,0	0,0		
10	<input type="checkbox"/>	Circuit 2 Lum 10	Maintained light	No function	0,0	0,0		
11	<input type="checkbox"/>	Circuit 2 Lum 11	Maintained light	No function	0,0	0,0		
12	<input type="checkbox"/>	Circuit 2 Lum 12	Maintained light	No function	0,0	0,0		
13	<input type="checkbox"/>	Circuit 2 Lum 13	Maintained light	No function	0,0	0,0		
14	<input type="checkbox"/>	Circuit 2 Lum 14	Maintained light	No function	0,0	0,0		
15	<input type="checkbox"/>	Circuit 2 Lum 15	Maintained light	No function	0,0	0,0		
16	<input type="checkbox"/>	Circuit 2 Lum 16	Maintained light	No function	0,0	0,0		
17	<input type="checkbox"/>	Circuit 2 Lum 17	Maintained light	No function	0,0	0,0		
18	<input type="checkbox"/>	Circuit 2 Lum 18	Maintained light	No function	0,0	0,0		
19	<input type="checkbox"/>	Circuit 2 Lum 19	Maintained light	No function	0,0	0,0		
20	<input type="checkbox"/>	Circuit 2 Lum 20	Maintained light	No function	0,0	0,0		

Switch 2

No function

LON-switch

Function keys

Option inputs

install power VA W

Circuit programming with switches 1 and 2

If the circuit has been programmed 'via luminaire setup', then up to 20 luminaires in the right hand field can be selected according to their switching type. Clicking on the luminaire numbers 1 - 20 opens the luminaire configuration. (see next page)

6.7 Luminaire configuration

Specification of luminaire number, name (max. 20 characters) and entry possibility for further information about the luminaire, e.g. for lamp type, mounting height etc. (max. 100 characters)

Luminaire configuration

Luminaire 1

Name GuideLed DXC oben

Information GuideLed DXC 8 Watt, Montagehöhe 5 m! Leiter erforderlich.

Category VA 0,0 W 0,0

With out CG-S (maintained light)

Non-maintained light

Maintained light

Switch 1

Timer 1

Timer 2

Timer 1+2

LON-switch 1

Function keys

Option inputs

DLS

Switch 2

No function

LON-switch

Function keys

Option inputs

DLS

PC --> ZB-S PC <-- ZB-S Cancel

Specification of the switching type and the switching assignment of the luminaire
- For explanation see the device operating instructions

The above example shows programming of the luminaire to
Switch 1 = LON-switch 1
and Switch 2 = No function.

4.7 General display options

The status of devices or components is displayed in colour in all screens.

- Green signifies 'OK'
- Red signifies 'fault' in the affected area
- Yellow signifies switched on or test active, e.g. circuit is switched on, functional test active
- Grey signifies 'switched off', e.g. luminaire is switched off 'standby light'

Examples:

Group	System	Message	Date	Status
1	1	FT fault	04.07.09 13:40:13	Aus
1	1	Notlichtanung	04.07.09 13:46:39	Aus
1	1	SKU 1/5 SK 1: 10000000000000000000	04.07.09 13:40:18	Ein
1	1	Notlichtanung	04.07.09 13:41:13	Aus

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400 71 347 387(M) – Sectionl 6 / 12/12/18/ CE
- Technical alterations without notice!-

Installation and operating instructions
Visualisation and monitoring software
CGVision and CEAG OPC server

For the monitoring and control of
CEAG emergency lighting systems

CGVision from V6.30

400 71 347 387 (M)

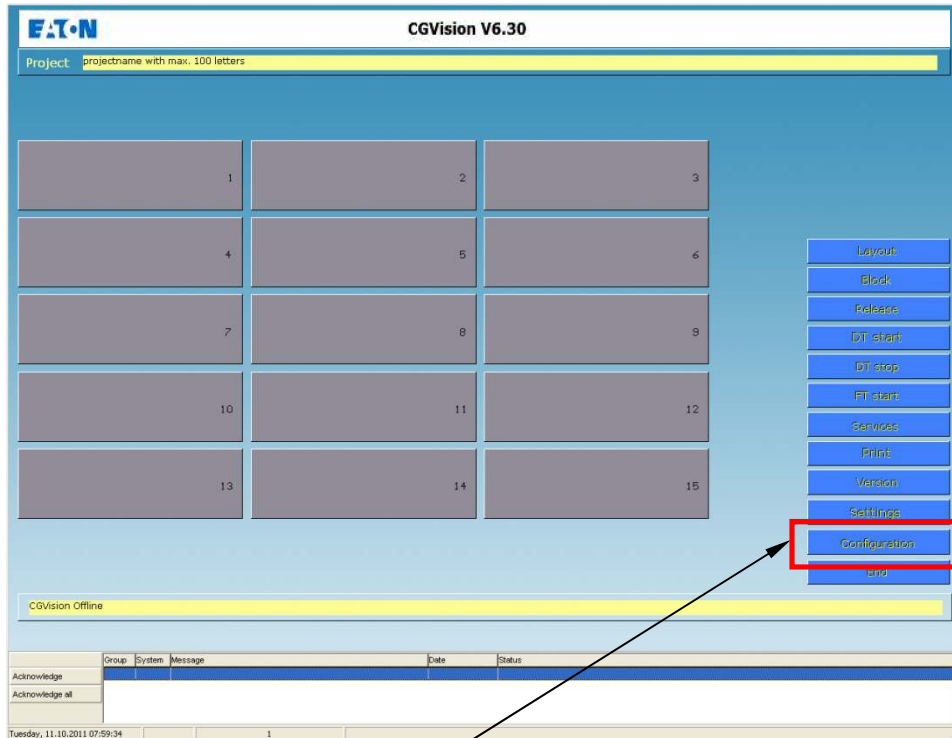


Section 7
Device family CG2000

7 Device family CG2000

7.1 Configuring a CG2000 system group

7.1.1 Creating a CG2000 system group:



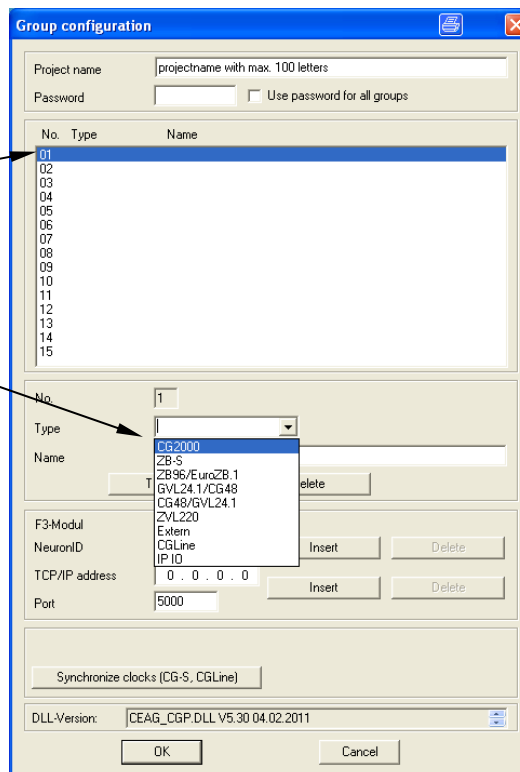
A new device family, e.g. CG2000, can be created via the 'Configuration' menu.

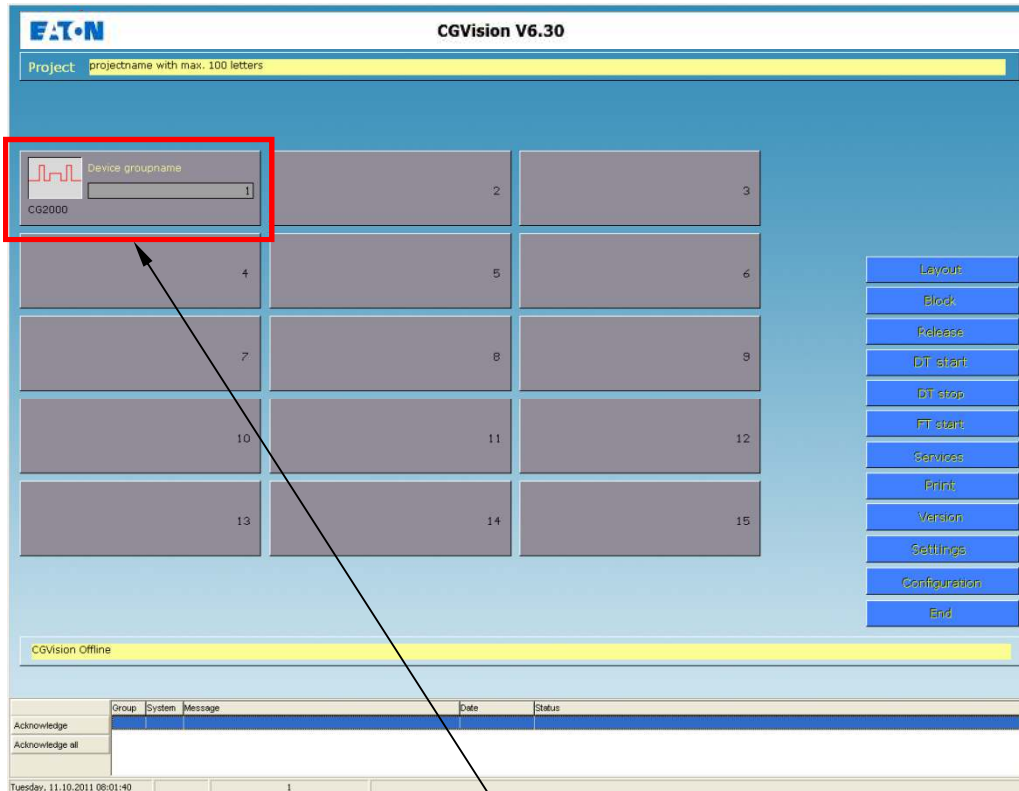
The group configuration menu is then displayed:

a) In the group selection window a system group can be defined by selecting the corresponding group number (marked blue)

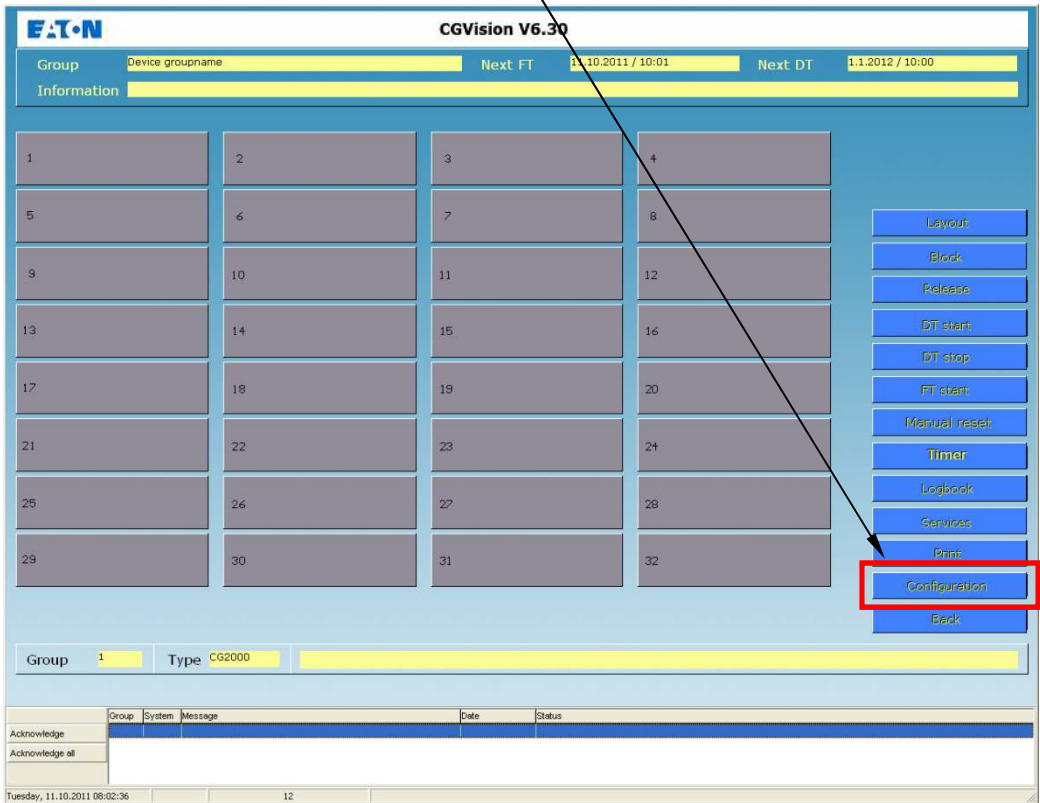
b) In the 'Type' drop-down menu the 'CG2000' system type can now be selected and a system group name can be assigned

c) Confirm with 'Accept', define further groups or exit with 'OK'





The system group has now been added. If this group is clicked on, the system group screen is displayed.
Up to 32 devices can now be created via the 'Configuration' menu



The system configuration menu then appears:

a) In the device selection window a system can be defined by selecting the corresponding device address (marked blue)

Important: the device address must correspond with the address of the CG2000.

(see point c)

b) In the 'Type' drop-down menu the system type 'CG100' or 'CG200' can now be selected

c) The 12-character Neuron ID of the device must now be entered.

1. Via the new search tool (network scan) as described below

2. Manual entry

The Neuron ID can be read out in the control unit menu 'Basic settings' → 'Connection to GLT'.

Here the device address for point a) can also be read out or set.

Confirm with 'Accept', add further groups in the same way or exit with 'OK'

Automatic restarting of CGVision is now required.

No.	Type	Name
01		
02		
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		

System address: 1

System type: CG100

System name: CG100, CG200

NeuronID: [Red box] Address: 1

Buttons: Take over, Delete, Remove all, PC <- CG2000, PC -> CG2000, Auto set-up, OK, Cancel

First entry of the Neuron ID via the new search tool:

The simplest method to add systems in CGVision is offered by a new search tool that carries out a network scan on the CG-S bus and lists all systems with a Neuron ID. To start the search tool, the desired device address (in the example address 01, marked blue above) must be selected and then the 'NeuronID' button clicked on.

Please note: with use of a CG-S/USB interface box:

the new search tool only functions with the CG-S/USB interface box with blue end caps.

The CEAG search tool opens in a new window

1. The LON interface must be set to xxx0, e.g. with LONUSB to LONUSB0, according to which interface is used. In the example below with LONIP the interface must therefore be set to LONIP0.
The length must be set to 0, the subnet to a number between 1 and 255, the node to between 1 and 127
-Save these settings by clicking on 'Accept'.

2. 'CG200' must be activated

CEAG LON-Suchtool 03.02.2011 V1.02

Buttons: Store result, Load file, Wait for service PIN, End Wait for service PIN, Send Wink to selected node, Delete result, Scan, Apply, Cancel

LON-Interface: LONIP

Length: 0 1 3 6

Subnet: 200

Node: 110

Domain ID: ????????

Show: All, CG2000, ZB-S, REL

Scan for Subnet/Node: Subnet: 0, Node: 0

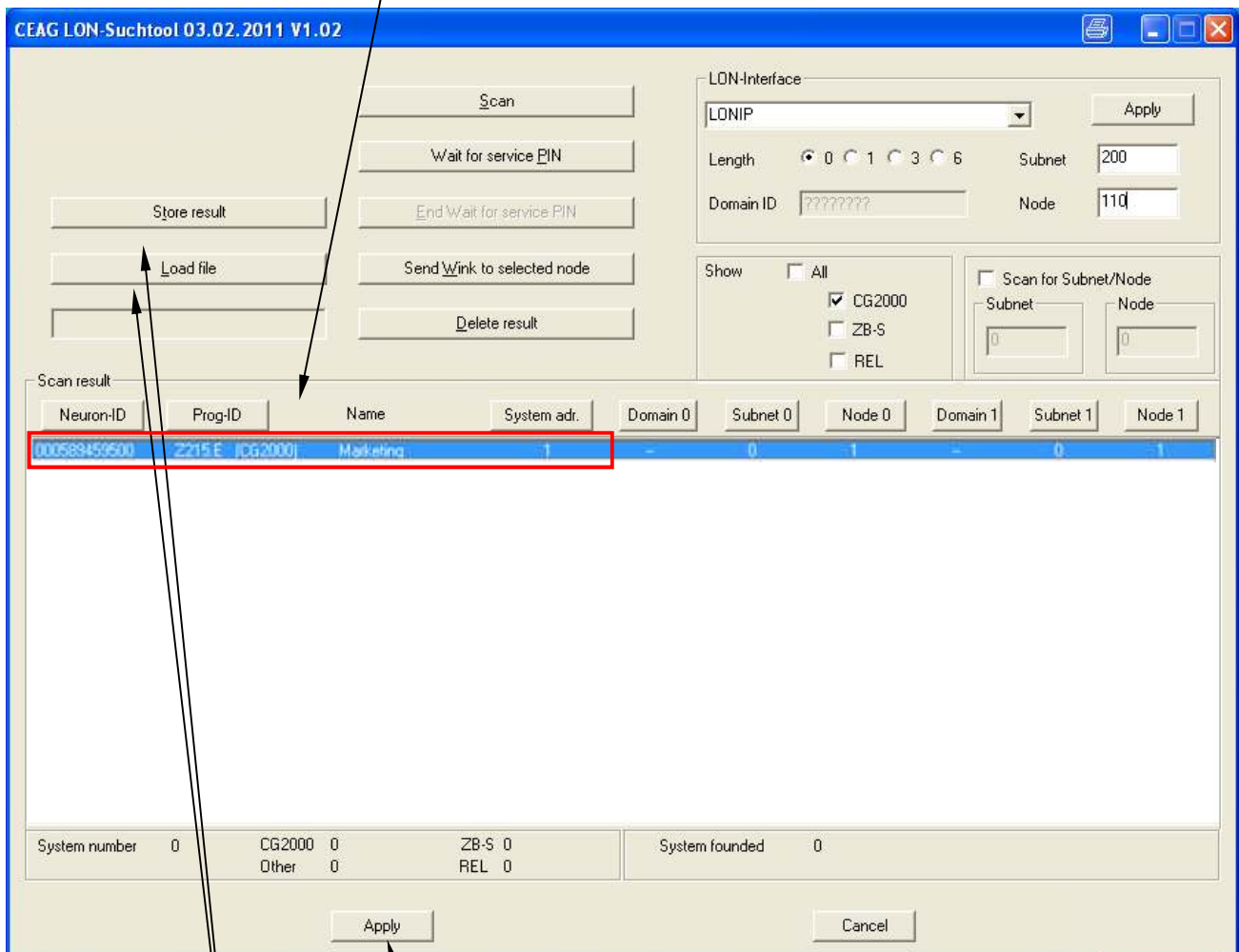
Scan result table:

Neuron-ID	Prog-ID	Name	System adr.	Domain 0	Subnet 0	Node 0	Domain 1	Subnet 1	Node 1
System number	0	CG2000	0	ZB-S	0	System founded	0		
		Other	0	REL	0				

The network scan can now be started with 'Search'. With correct bus installation, all CG2000 systems found are now listed (next screen).

The network scan may take some minutes according to the quantity of installed CG-S systems (ZB-S/CG2000).

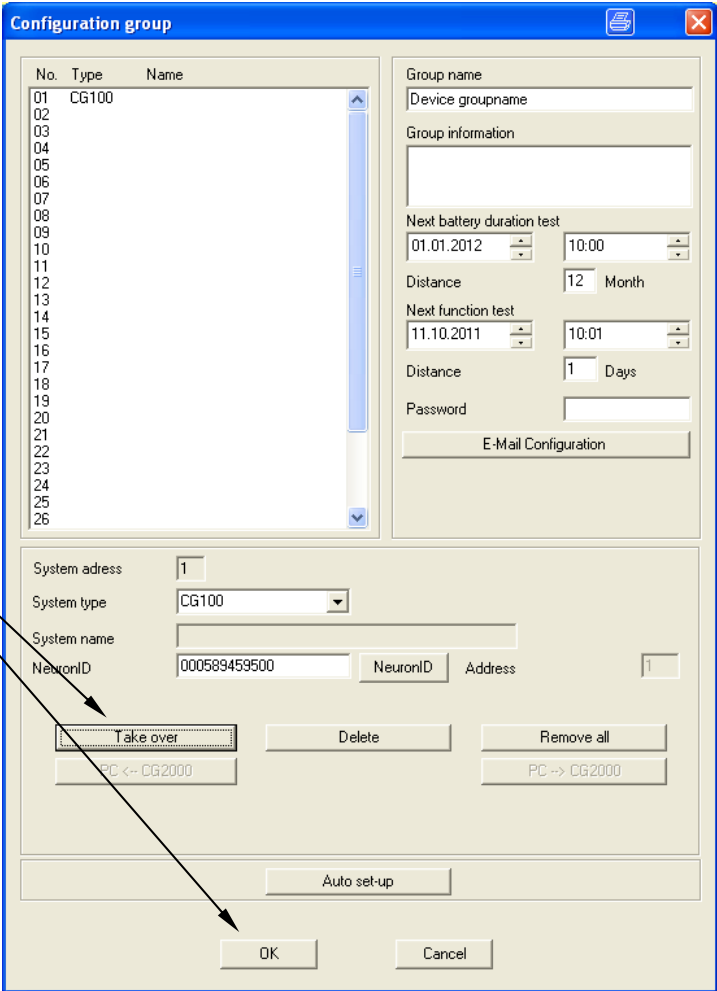
All CG2000 devices found are specified in the 'search results' list. The Neuron ID, the software version with state (e.g. E), the system types CG2000, the device name (20 characters from the control unit) and the device address 1 to 32 are displayed as information. The required CG2000 with the correct Neuron ID and device address must now be selected, marked blue.



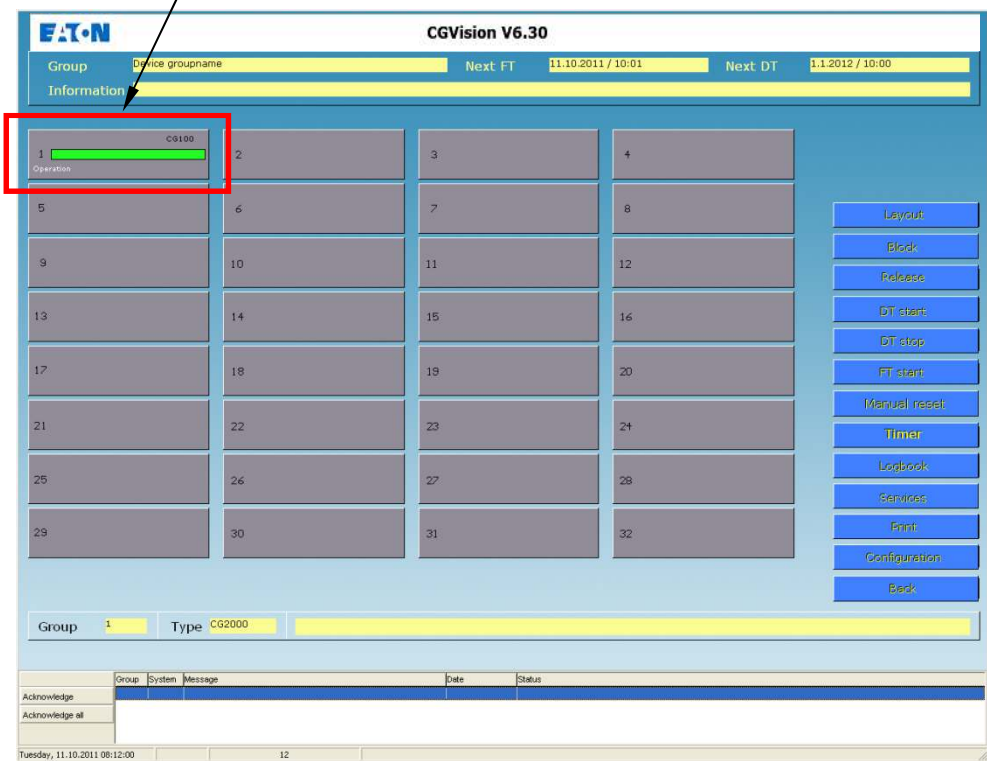
'Accept' automatically copies the NeuronID into the CG2000 configuration (next screen).

Because the network scan may take some minutes (according to the number of devices), it is possible to save this result locally via "Save results". With the next CG2000 system, the result can be more quickly opened via 'Open file', instead of a network scan.

The NeuronID is now automatically transferred for the system. By clicking on 'Take over' a new device can now be added in a similar way. When all CG2000's are added to this group, clicking on 'OK' saves all changes. A CGVision restart follows.



After the CGVision restart the added devices are displayed with type designation in the assigned button. This button is now active and displays the current status via colour designation according to operational state, e.g. green = operational, red = fault, yellow = function test or continuous operation test is active. By clicking the group button the next screen ('Device screen,') opens.



7.2 'Device screen – CG2000'

7.2.1 Structure of the device screen:

Group name and system name (up to 20 characters each)

Field for supplementary information (up to 100 characters)

Display of next automatic FT / BT.
 FT = function test
 BT = continuous battery operation test

CGVision V6.30

Group: _____ Next FT: 14.2.2012 / 7:00 Next DT: 1.1.2013 / 10:00
 System: _____ Manual reset: No Delay on mains return: 0 min
 Information: _____

Operation
 FT
 DT
 Blocked
 Failure

Charger

Battery
 U: 0.00 V
 I: 0.00 A
 T: -274.00 °C

3 phase monitor

DC

Delay on mains ret.

Mains

Circuits
 1: _____
 2: _____
 3: _____
 4: _____
 5: _____
 6: _____
 7: _____
 8: _____
 9: _____
 10: _____

Buttons for commands or configuration settings:
 Layout, Block, Release, DT start, DT stop, FT start, Reset deep discharge, Manual reset, DLG/TLG/3PhW, LON-switch, Services, Print, Configuration, Back

Save on SD/BMC

Group: 1 Type: CG2000 System: 1

Direct status messages of device with coloured status display
 Green= OK , Red = fault

Installed circuits, max. 5 (CG100) or 10 (CG200). A grey field signifies 'not installed'. To display installed circuits, these must first be loaded with the 'Configuration' menu via the 'PC ← CG2000' button.

Alarm list with confirmation option, identical to the main group screen.

Group	System	Message	Date	Status
Acknowledge				
Acknowledge all				

Monday, 06.02.2012 14:47:25

7.2.2 Function buttons:

Button functions for command or configuration settings

The screenshot displays the EATON CGVision V6.30 software interface. At the top, the status bar shows 'Gruppe: Anlagengruppe 4', 'Anlage: Marketing', and 'Information'. It also indicates 'nächster FT: 4.7.2009 / 10:01' and 'nächster BT: 1.1.2010 / 10:00'. The main area features a schematic diagram of the power system, including a 'Ladeteil' (charging part), 'Batterie' (battery) with parameters U: 55.90 V, I: 0.00 A, T: 28.60 PC, 'ISO', 'DC/DC', '3Phasenwächter', 'Nachl.Notlicht', and 'Netz'. To the right is a 'Stromkreise' (Circuits) list with 10 slots. On the far right, a vertical column of function buttons is visible, including 'Grundriss', 'Blockieren', 'Freigeben', 'BT starten', 'BT stoppen', 'FT starten', 'Tiefentladung quittieren', 'Handrückschaltung', 'DLS/TLS/3PhW', 'LON-Schalter', 'Dienste', 'Drucken', 'Konfiguration', and 'zurück'. At the bottom, there is a table with columns for 'Gruppe', 'Anlage', 'Meldung', 'Datum', and 'Status'.

a). 'Layout'

Calling up of the first available layout for this device
(option must be authorised via a dongle, available separately.)

b). 'Block'

The device (CG2000) is blocked

c). 'Release'

The blocked device is released

d). 'Start BT'

A BT test (continuous operation test) is carried out for the device.

e). 'Stop BT'

BT test is aborted for the device.

f). 'Start FT'

An FT test (function test) is carried out for the device.

g). 'Confirm total discharge protection'

Confirmation of total discharge protection

h). 'Manual resetting'

This enables the device responding to manual resetting to be reset.

i). 'DLS/TLS/3PhW'

Menu for configuration of DLS / TLS / and 3-phase monitor functions

j). 'LON switch'

Menu for connecting external LON switches

k). 'Services'

Various services for inspection book and configuration

l). 'Print'

A screenshot of the current screen is printed

m). 'Configuration'

Configuration settings for all data on the device screen

n). 'Back'

Return to main group screen

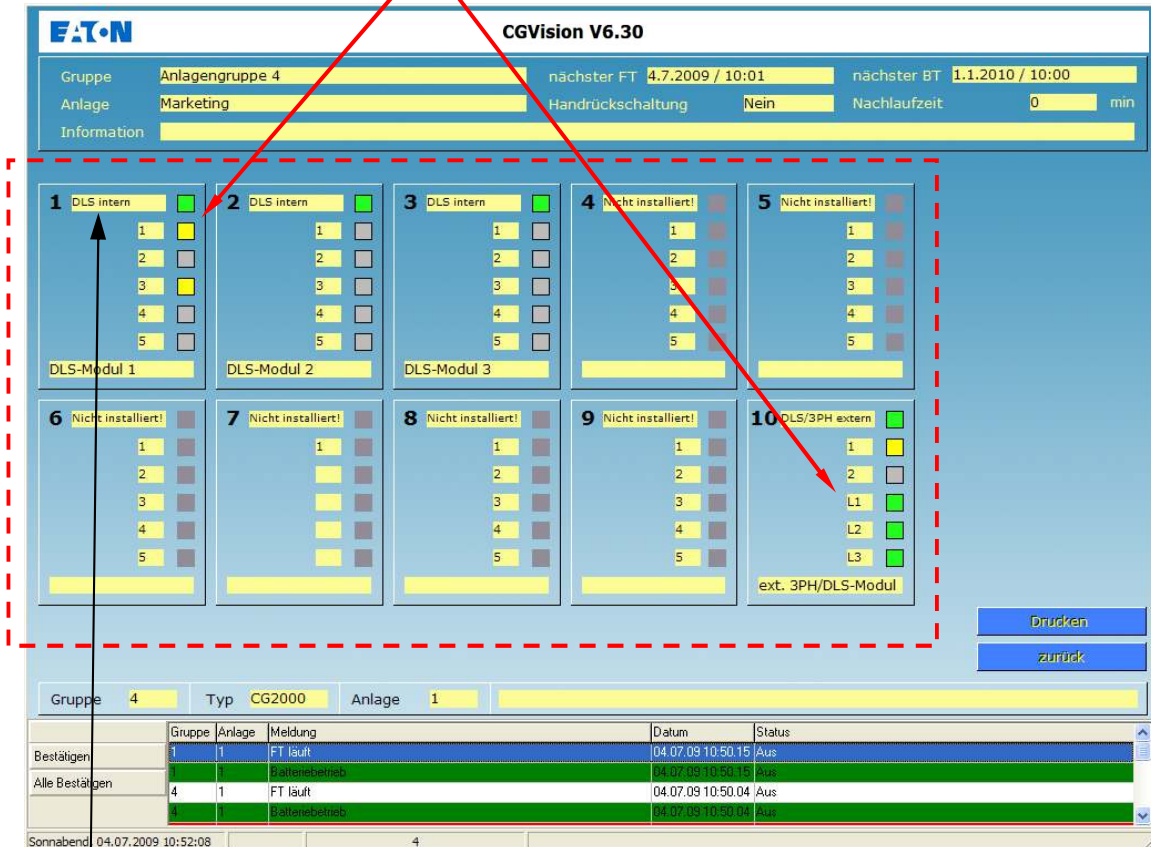
a). Calling up of the available layouts in this system group
(option must be released, see the 'layout programming' section)

b). - h). Commands described previously (Points b-g) can be executed directly

i). 'DLS/TLS/3PhW'

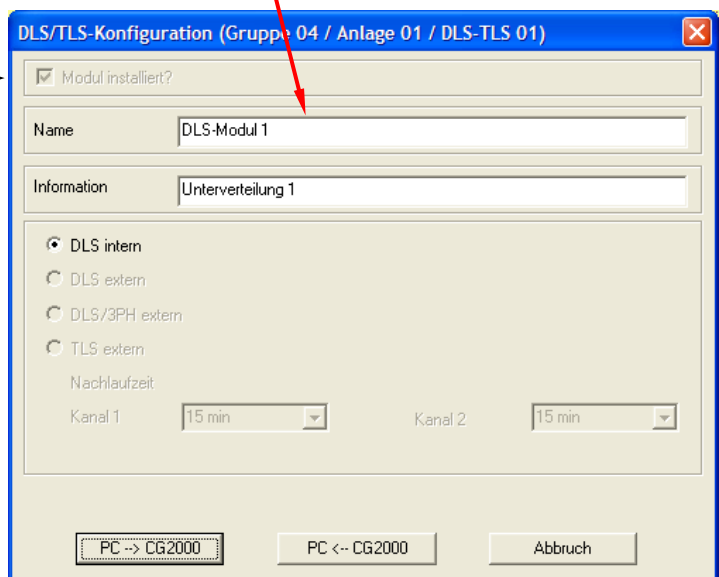
Menu for configuration of DLS / TLS / and 3-phase monitor functions

Display of DLS modules with status of switch settings and phase display
Switch → grey / yellow = switch OFF / ON
Phase monitor → red / green = phase fault / OK



Entry of name (max. 20 characters) and supplementary information (max. 100 characters)

Open the configuration window by clicking the DLS name

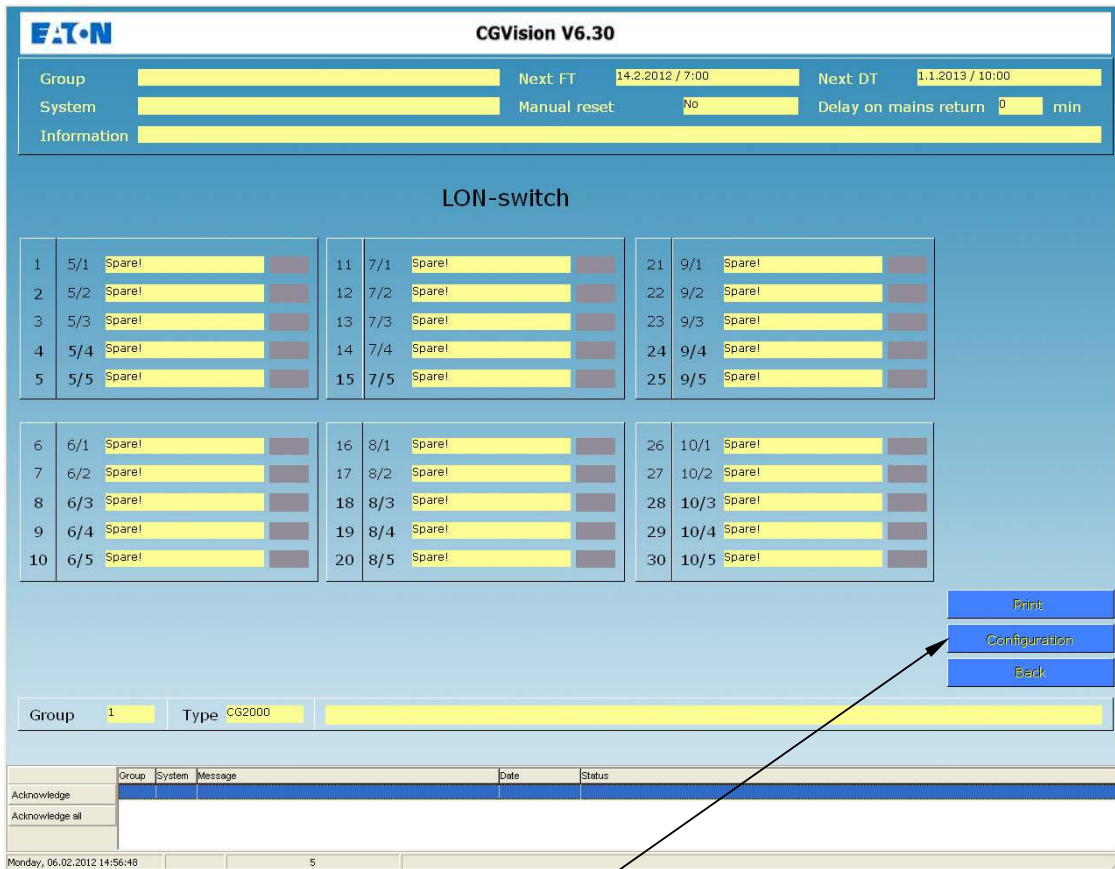


DLS configuration:

DLS modules, due to hardware, can only be installed at the device.
Subsequently installed modules can be opened via 'PC ← CG2000' by CGVision.

The name and supplementary information can be entered in the DLS / TLS configuration in CGVision.

**j). 'LON switch'
Menu for connecting external LON switches**



Configuration of external LON sensors:

Up to 30 external LON sensors (e.g. switches) can be assigned to the DLS addresses.

Here, due to software, the addresses of DLS modules 5 - 10 are used, meaning LON switch No. 1 uses the DLS address module 5 - input 1 etc.

IMPORTANT!:

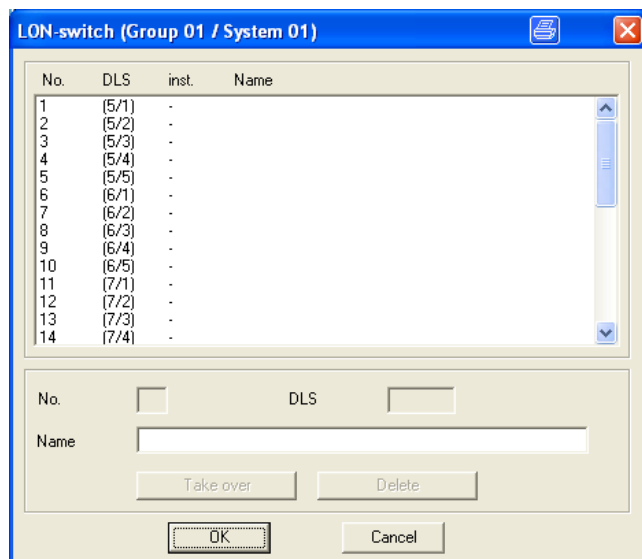
It is not possible to simultaneously use a DLS address from the LON and DLS module



To use the 'LON switch' function, in the CG2000 device menu *Basic settings // Connection to GLT* --> *LON switch: YES* must be activated.

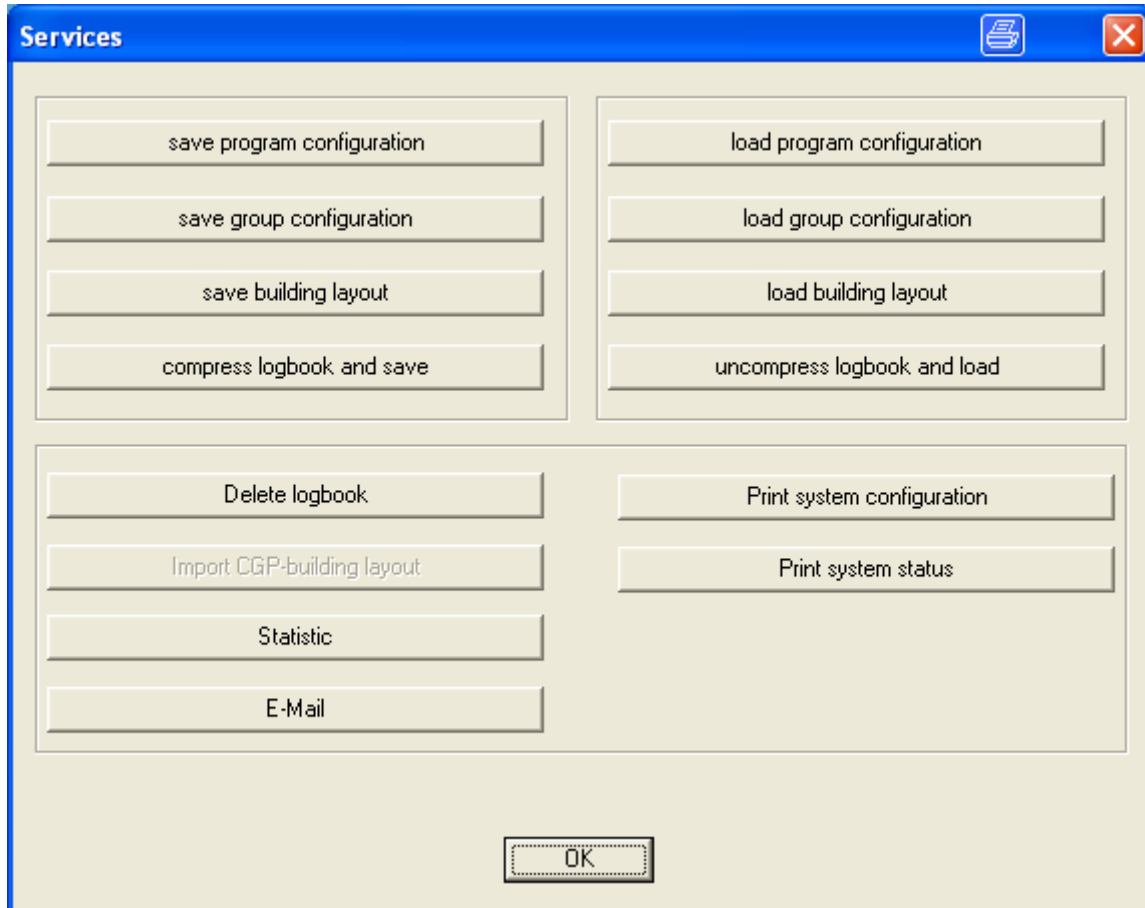
This can also be activated in CGVision under Point I.) 'Configuration' of the device.

Integration of external LON sensors must be carried out by an authorised LON integrator.



k). 'Services'

Various services for the inspection book and configuration



The 'Services' menu is identical with the 'Services' menu in the system group screen, apart from clicking on Status, which only relates to the system. You can find a detailed description for saving and opening of program configurations/group configurations in Section 2 'System group screen', j) 'Services'.

m). 'Configuration of system' (device)

Free configuration of the zero-potential relay contacts and buzzer

Entry of device name and supplementary information

Activation of special functions e.g. activation of external LON sensors (switches etc.)

Supplementary information:

Configuration system (Group 01 / System 01 / CG2000)

System name: max. 20 characters
 System info: max. 100 characters
 Delay on mains return: 0 min
 Manual reset:
 Selective emergency light LON-switch:
 Quantity charger: 0
 Capacity: 0 Ah
 Rated operation time: 1 h
 Min. operation time: 67 %

Relay assignment	1	2	3	Buzzer
Mains operation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mains failure	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mains failure DB	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Charging failure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inverter failure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Luminaire failure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sum failure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Deep discharge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ISO-failure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Duration test	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Circuits: 1 2 3 4 5
 6 7 8 9 10

Type: CG100 Software version:
 Serial number:
 Start inverter searching Start DLS/TLS searching
 PC --> CG2000 PC <-- CG2000 Cancel

With the 'PC → CG 2000' button, all modified settings can be sent to the device. With the 'PC ← CG2000' button, the current configurations in the device can be downloaded to the PC.

Option: converter search and DLS/TLS search
 Buttons for starting 'Converter search' and 'DLS/TLS search' as possible on the device. It must be considered that after implementing these functions the configuration data of the device must be reopened. The following windows appear: With Converter search DLS search

Start inverter searching

⚠ This process will delete the existing configuration files. Installed circuits will be searched automatically. After completion of this function all configuration files of this device must be loaded again! (Configuration system: PC <-- CG2000)

Are you sure?

Ja Nein

Start DLS/TLS searching

⚠ This process will delete the existing configuration files. Installed DLS/TLS modules will be searched automatically. After completion of this function all configuration files of this device must be loaded again! (Configuration system: PC <-- CG2000)

Are you sure?

Ja Nein

7.3 'Circuit screen'

7.3.1 Structure of the circuit screen:

Installed circuits are displayed by colour-highlighted buttons. By clicking a button the corresponding circuit level opens (circuit screen)

The screenshot displays the Eaton CGVision V6.30 software interface. At the top, the Eaton logo and 'CGVision V6.30' are visible. Below this, a header bar contains system information: 'Gruppe: Anlagengruppe 4', 'Anlage: Marketing', 'Information: ', 'nächster FT: 4.7.2009 / 10:01', 'nächster BT: 1.1.2010 / 10:00', 'Handrückschaltung: Nein', and 'Nachlaufzeit: 0 min'. The main area features a central circuit diagram with components like 'Ladeteil', 'Batterie' (showing U: 55.90 V, I: 0.00 A, T: 28.60 °C), 'ISO', 'DC', '3Phasenwächter', 'Nachl.Notlicht', and 'Netz'. To the left is a control panel with status indicators for 'Betrieb', 'FT', 'BT', 'Blockiert', and 'Störung'. To the right is a 'Stromkreise' panel with 10 buttons, the first three of which are highlighted in green. Further right is a vertical menu with buttons for 'Grundriss', 'Blockieren', 'Freigeben', 'BT starten', 'BT stoppen', 'FT starten', 'Tiefentladung quittieren', 'Handrückschaltung', 'DLS/TLS/3PhW', 'LON-Schalter', 'Dienste', 'Drucken', 'Konfiguration', and 'zurück'. At the bottom, there are fields for 'Gruppe: 4', 'Typ: CG2000', and 'Anlage: 1', along with a table for 'Bestätigen' and 'Alle Bestätigen' with columns for 'Gruppe', 'Anlage', 'Meldung', 'Datum', and 'Status'. The status bar at the very bottom shows 'Sonntag, 04.07.2009 10:41:53' and the number '3'.

Text fields for information, e.g. device, location etc.

Displays next FT/BT and further circuit configurations

Buttons for luminaire configuration (per luminaire)

The screenshot shows the CGVision V6.30 interface. At the top, there are fields for 'Gruppe' (Anlagengruppe 4), 'Anlage' (Marketing), and 'Stromkreis' (CIR01). To the right, it shows 'nächster FT' (5.7.2009 / 10:01), 'nächster BT' (1.1.2010 / 10:00), 'Handrückschaltung' (Nein), 'Nachlaufzeit' (0 min), 'Schalter 1' (Per Leuchtensetup), and 'Schalter 2' (Dauerlicht(Batterie)).

The main table lists 20 luminaires (LUM01 to LUM20) with their status (ON/OFF/faulty) and switch configurations. Buttons for 'ISO +', 'ISO -', 'Sicherung', 'Überlast', and 'Stromwert I<Imin' are on the left. Buttons for 'Grundriss', 'Drucken', 'Konfiguration', and 'zurück' are on the right.

Below the main screen is an alarm list with columns for 'Gruppe', 'Anlage', 'Meldung', 'Datum', and 'Status'. The list shows three entries: 'Batterienbetrieb' (Aus), 'Batterienbetrieb' (Aus), and 'Batterienbetrieb' (Ein).

Extended fault messages

Button for circuit configuration

Alarm list with confirmation option, identical to the main group screen

Installed luminaires in the circuit with status display (max. 20 characters)
 Grey = luminaire OFF
 Yellow = luminaire ON
 Red = luminaire faulty

7.3.2 Circuit and luminaire configuration

Circuit configuration:

Entry of circuit name (max. 20 characters) and supplementary information (max. 100 characters)

Specification of monitoring type

Circuit programming
For explanation see device operating instructions

Entry of installed load in the circuit

Luminaire configuration:

Entry of luminaire name (max. 20 characters) and supplementary information (max. 100 characters)

Switching type or switch assignments
For explanation see device operating instructions

7.4 General display options

The status of devices or components is displayed in colour in all screens.

- Green signifies 'OK'
- Red signifies 'fault' in the affected area
- Yellow signifies 'switched on', e.g. luminaire is switched on
- Grey signifies 'switched off', e.g. luminaire is switched off, 'standby light'

Examples:

Fault in circuit No. 1 (red)

Circuit No. 2 to 5 O.K. (green)

Luminaire fault (red)

Fault display in plain text in alarm list (red)

The screenshot shows the EATON CGVision V6.30 interface. At the top, it displays system information: Gruppe: Anlagengruppe 4, nächster FT: 5.7.2009 / 10:01, nächster BT: 1.1.2010 / 10:00, Anlage: Marketing, Handrückschaltung: Nein, Nachlaufzeit: 0 min. The main area shows a schematic diagram with components like Ladeteil, Batterie (56.50 V, 0.00 A, 29.20 PC), ISO, DC, 3Phasenwächter, Nachl.Notlicht, and Netz. A red circle indicates a fault in circuit No. 1. On the right, a 'Stromkreise' list shows circuit 1 in red and circuits 2-5 in green. Below the diagram is an alarm list table:

Gruppe	Anlage	Meldung	Datum	Status
1	1	FT laut	04.07.09 13:40:13	Aus
1	1	Handrückschaltung	04.07.09 13:40:13	Aus
1	1	Sub-Anlage	04.07.09 13:39:51	Aus

Luminaire No. 1 switched on (yellow)

Luminaire No. 20 switched off, 'standby light' (grey)

Luminaire fault, luminaire No. 3 (red)

Clicking the luminaire text opens a window displaying supplementary information about the luminaire (max. 100 characters)

The screenshot shows the EATON CGVision V6.30 interface for 'Stromkreis 1'. It lists 20 luminaires with their status: SL 51011 (T5/6Watt) is yellow, SL 57011 (T5/8Watt) is red, RZ 51011 (T5/8Watt) is red, and SL 57011 (T5/8Watt) is grey. The rest are 'Nicht installiert!'. The interface also shows control buttons for ISO, Sicherung, Überlast, and Stromwert. An alarm list at the bottom shows 'FT laut' and 'Handrückschaltung'.



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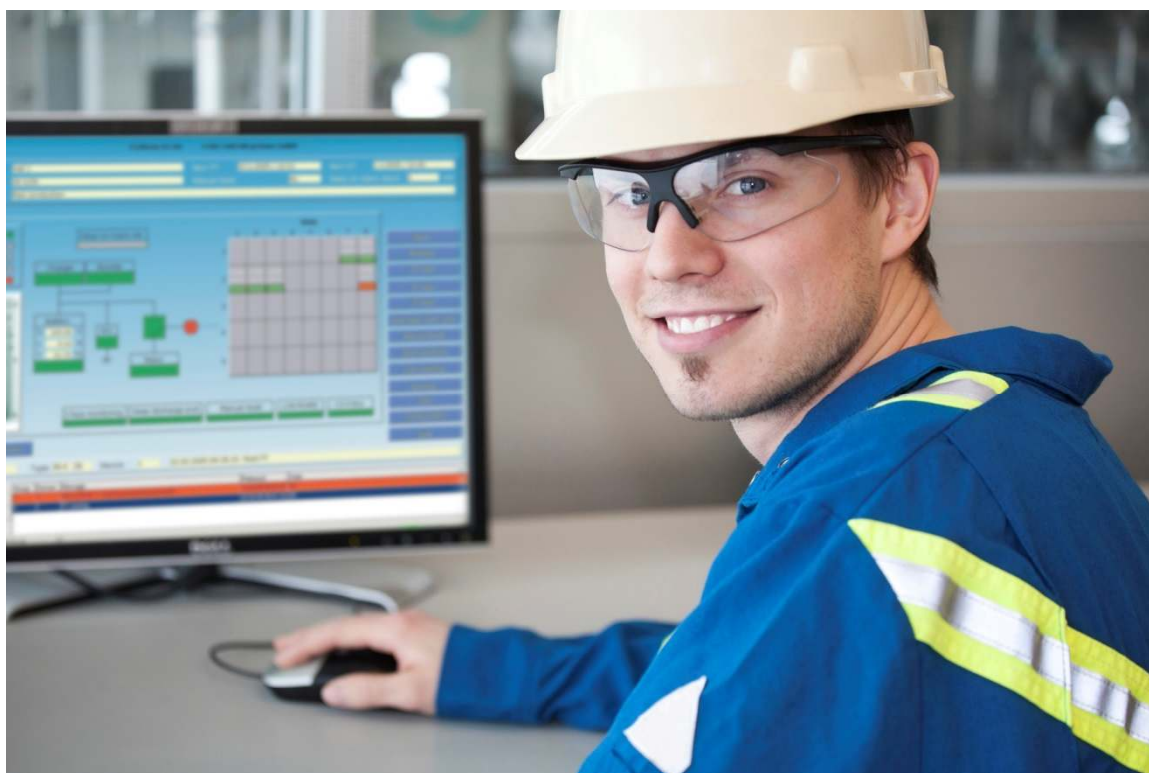
400 71 347 387(M) – Section 7 / 12/12/18/ CE
-Technical alterations without notice!-

Installation and operating instructions
Visualisation and monitoring software
CEAG CGVision and OPC server

For the monitoring and steering of
CEAG emergency lighting systems

CGVision from V6.30

400 71 347 387 (M)



Section 8
Device family CGLine+

8 Device family CGLine+

Foreword

Up to 32 CGLine+ Web Controller units can be connected to CGVision, each with a max. of 800 CGLine+ self-contained luminaries. In total up to 25,600 CGLine+ self-contained luminaries can be fully visualised and configured via CGVision.

Important information:

The CGLine+ Web Controller is downwards compatible with CGLine self-contained luminaries. As soon as at least one CGLine luminaire is connected, the CGLine+ Web Controller works in the so-called CGLine compatibility mode, i.e. only CGLine functions are available!

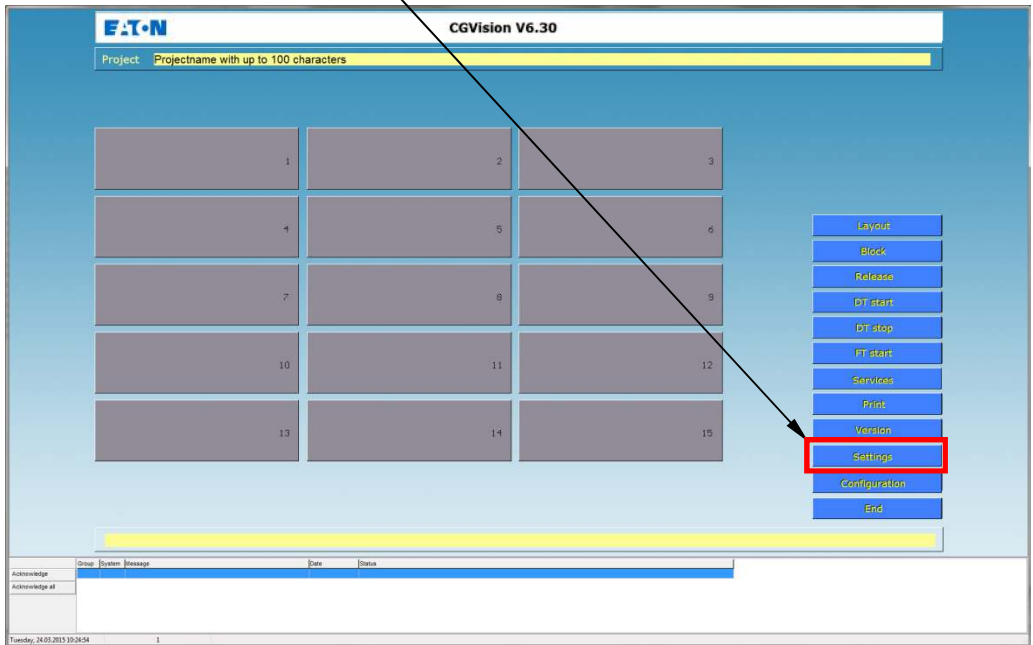
In the following chapter the setting up of a preconfigured CGLine+ Web Controller is described.

The following procedure is recommended for the configuration and setting up of a controller:

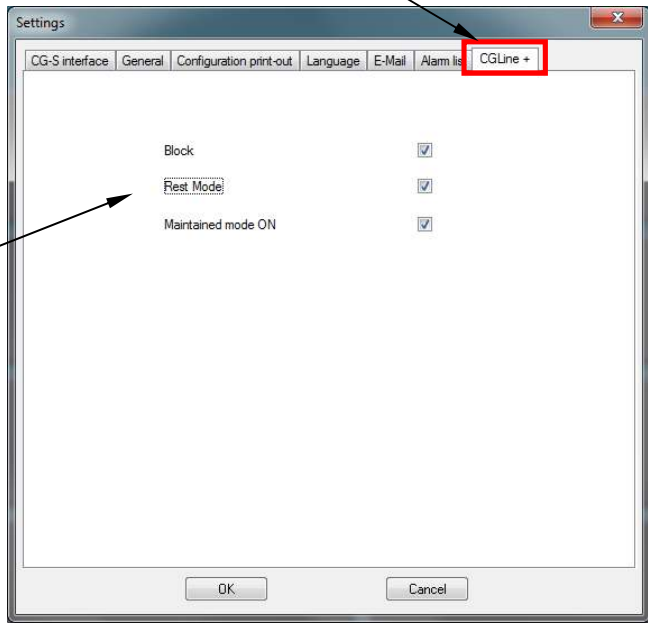
- Electrical start-up of the CGLine+ system (controller and luminaries)
- Start luminaire search via web interface (see user manual CGLine+ Web Controller)
- Configuration of the luminaries via the CGLine+ PC software (address and text allocations)
- Install CGLine+ Web Controller with CGVision. Upload configuration from Controller to CGVision

8.1 Default settings CGLine+

It is recommended to set some default settings for CGLine+ before commissioning in CGVision. The default settings can be changed everytime. The default settings are available in the menu „Settings“ in the main group picture



Following setting menu appears. The register „CGLine+“ must be selected



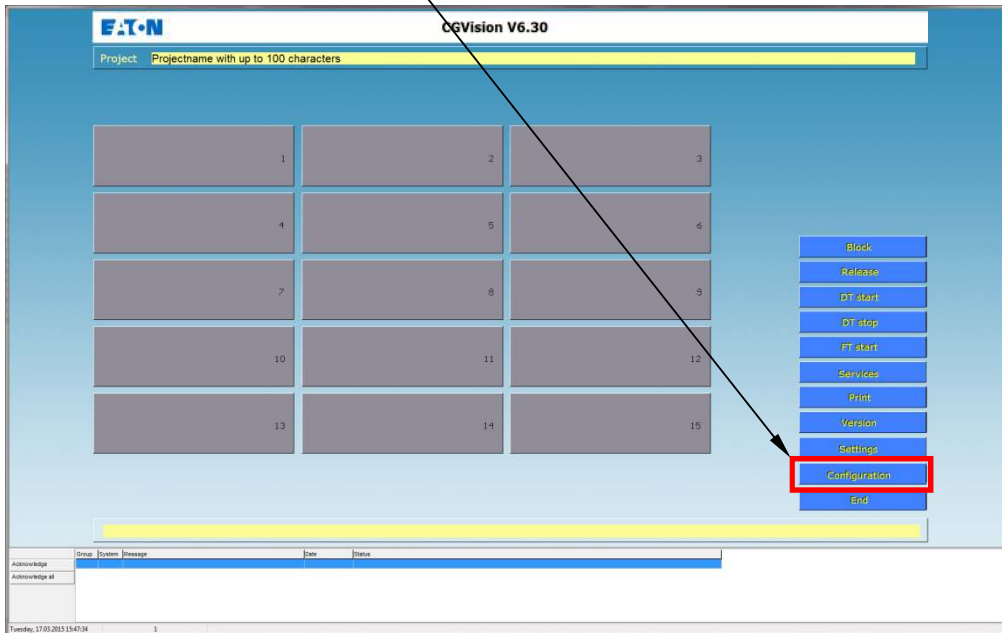
Following functions can be activated or deactivated here, if these are not desired or supported by the connected luminaires:

- Block:
Fade in of the „block“ switch in the CGLine+ group and device picture if the function is selected
- Rest Mode:
ditto for the function „Rest Mode“
- Maintained mode ON:
ditto for the function „Maintained mode ON“ and „Maintained Mode OFF“

8.2 Installation of a preconfigured CGLine+ Web Controller

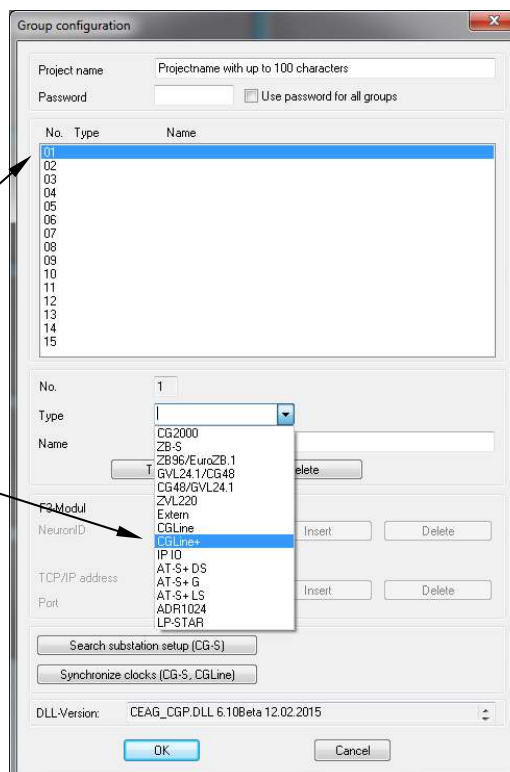
8.2.1 Install a CGLine+ device family

Via the "Configuration" menu a new device family, e.g. CGLine+ can be applied

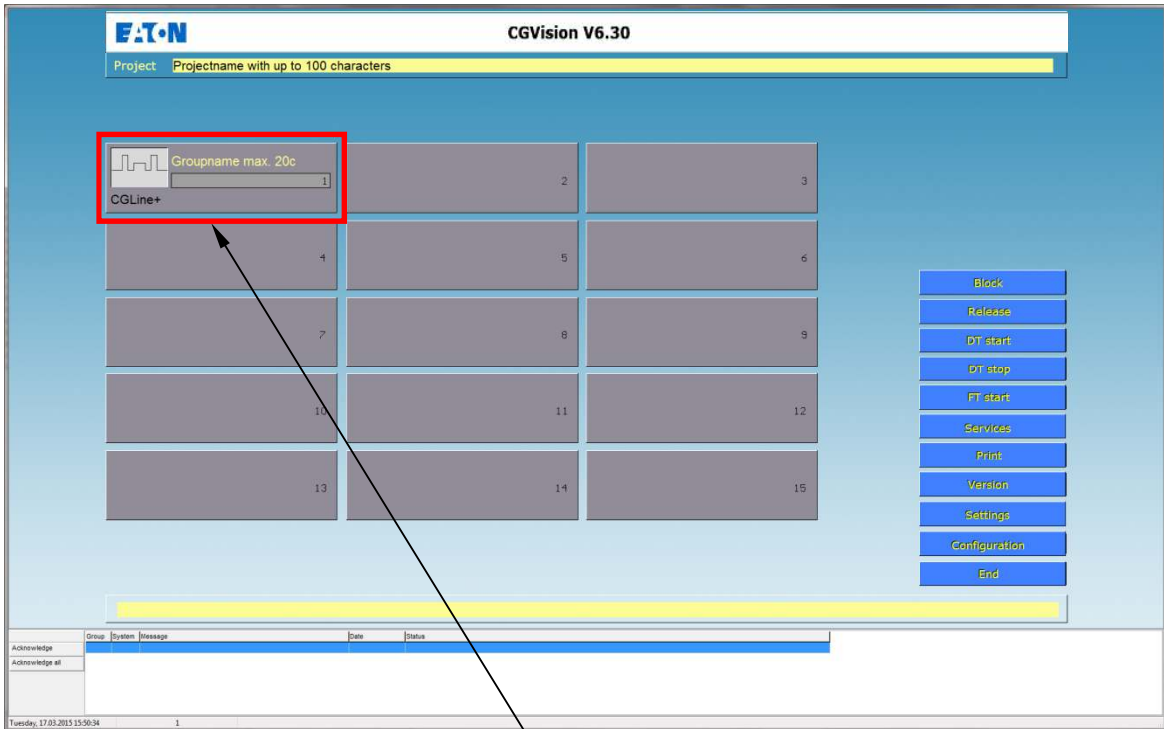


A group configuration menu appears:

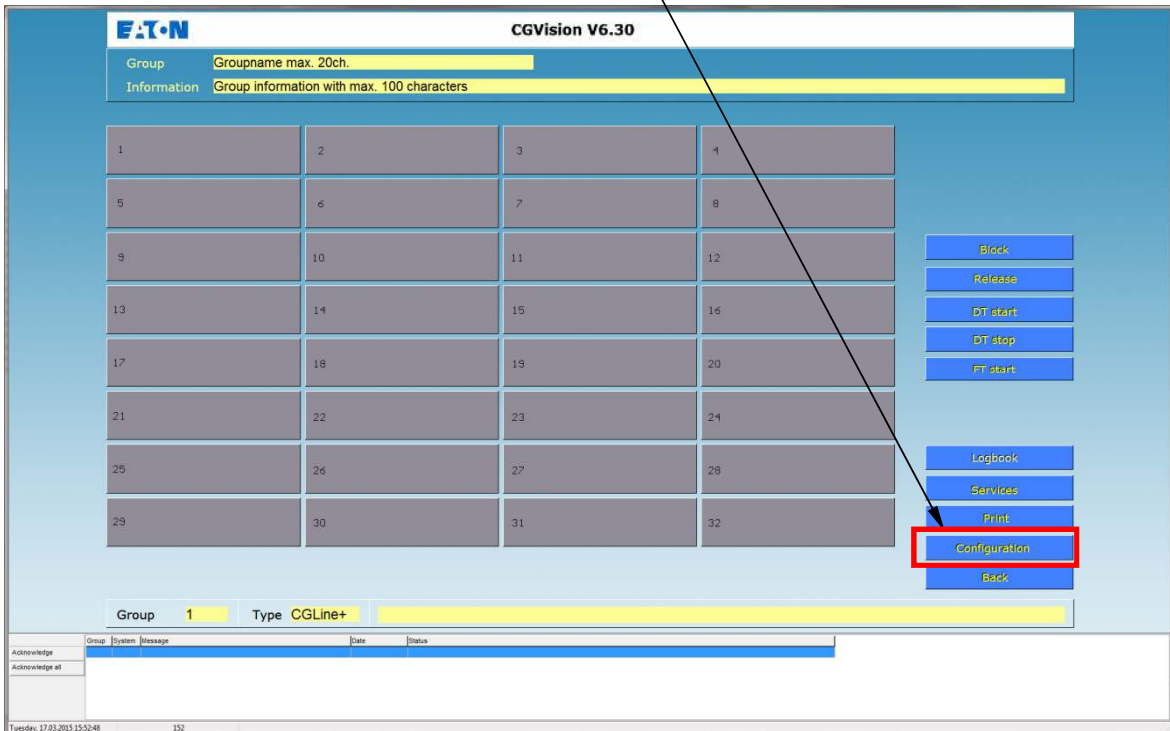
- a) An installation group can be defined in the group selection window by selecting the corresponding group number (marked in blue)
- b) In the "Type" drop-down menu the installation type "CGLine+" can be selected and the installation group name can be given
- c) Confirm with "Accept", now new groups can be installed if necessary. The new configuration is saved by clicking "OK".



The installation group is now added and appears in the "Main Group Image"



The "Device Group Image" opens when you click on this group. Via the "Configuration" menu up to 32 CGLine+ Web Controllers can now be installed.



The following group configuration menu appears:

Set password protection for this group. The password is requested as soon as commands, e.g. block or configuration settings are made. The status display for the CGLine+ Web-Controller and connected devices is possible without a password!

To e-mail settings menu. See section 14
CGVision e-mail function

Entry fields for the group names (max. 20 digits) and additional group information (max. 100 digits)

a) A device address must first be defined in the device selection window by selecting the corresponding number (marked in blue)

b) In the "Installation Type" drop-down menu it is now necessary to select whether 4-strand operations with up to 4 x 200 luminaries (=CGLine+ 4), or 2-strand operations with up to 2 x 400 luminaries (=CGLine+ 2) are required.

c) The 12-digit IP address for the device must now be entered!
This is the default ex-works **192.168.1.200**. It is strongly recommended that this should be changed before connection to CGVision, in accordance with the instructions of your IT department! (For changes to the IP address, see the user manual for the CGLine+ Web-Controller)

Confirm with "Accept", add further devices in the same way, or finish by clicking "OK"
An automatic restart of CGVision is now necessary!

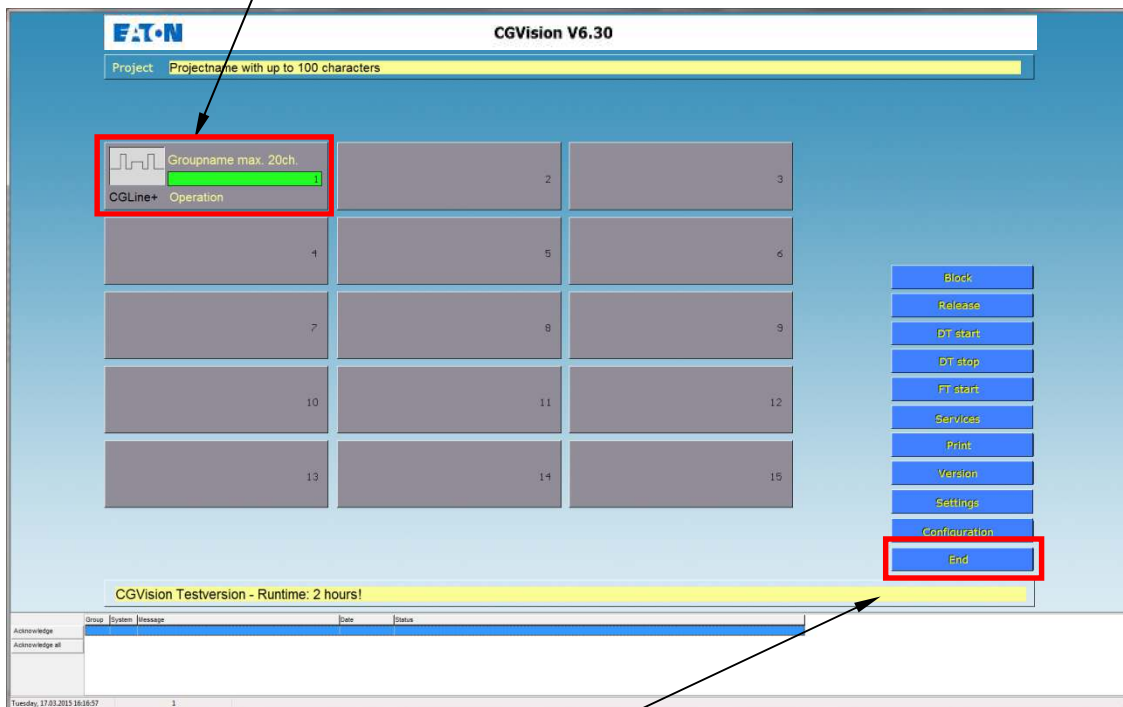
No.	Type	Name
01		
02		
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		

Group name: (Groupname max. 20ch.)
 Group information: (Group information with max. 100 characters)

System address:
 System type: **CGLine+ 4** (dropdown menu)
 System name:
 Netmask: Address:
 TCP/IP address: Port:

Buttons: Take over, Delete, Remove all, PC <- CGLine+, PC -> CGLine+, E-Mail Configuration, OK, Cancel

Following the restart of CGVision the devices installed appear with type designation in the relevant button. This button is now active and shows the current operational status via colour code, e.g. green = operational, red = malfunction, yellow = function or operating time test active. By clicking on the group device button the "Device Image" opens up.

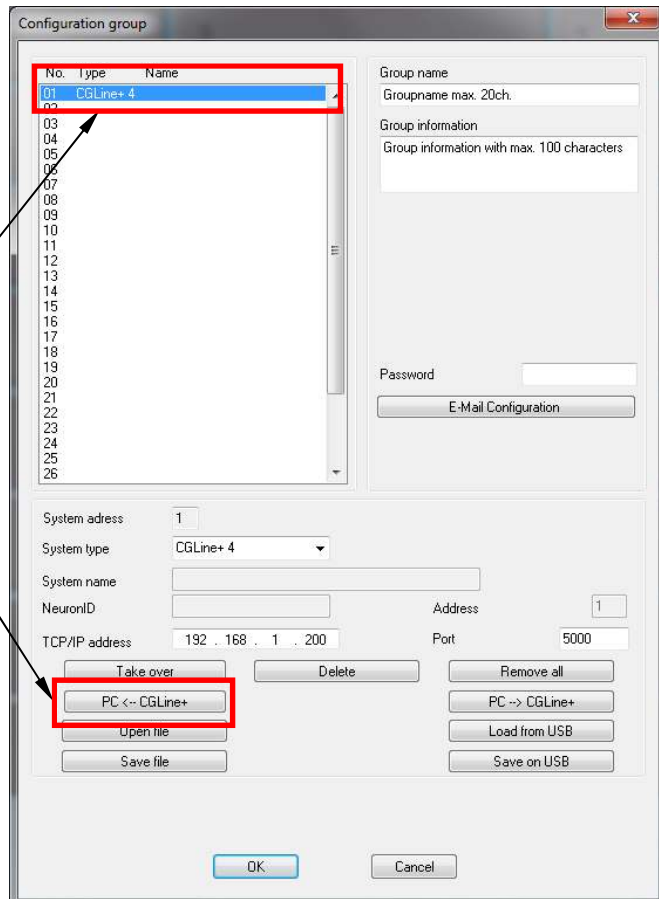


In order to see the complete configuration of the CGLine+ Web-Controller incl. all luminaries in CGVision, it is necessary to upload the configuration from the Controller to CGVision. Click on "Configuration"

The following window opens up. The required Controller must now be marked (blue)

The whole configuration can now be uploaded via "PC ← CGLine+". This process can last several minutes depending on the number of luminaries!

The CGLine+ Web Controller is now set up in CGVision and ready for operation



8.3 Device image – CGLine+ Web-Controller

8.3.1 Building the device image:

Group name and installation name (up to 20 digits each)

Field for additional information (up to 100 digits)

Buttons for Commandos or configuration settings

**Direct status messages for the device
With coloured status display
Green = OK, red = malfunction**

**Display of the active strand with the total status of the luminaries in the strand.
By clicking on the relevant strand from 1 to 4, you can change the display for the strand to the status**

Status display for the relay outputs and digital inputs

**Click left mouse button= Information window
Click right mouse button= Open web server via web browser**

**Display of active zones 2, 4, 5 or 8 for 4-strand operations in strand. By clicking on the zone you access the zone image with the luminaries installed.
The number of active zones in the strand can be set in the menu item "Configuration".**

By clicking on the zone for a strand you access the zone image with the installed luminaries directly

**Installed strands, max. 4 units with max. 100 CGLine luminaries each, with display of current status:
Green = luminaries in strand OK
Yellow = min. 1 luminaire being tested
Red = min. 1 luminaire in strand broken
Grey field means "Strand not installed".**

Alarm list with acknowledgement option identical with main group image

8.3.2 Device status displays

Status displays for the CGLine+ Web Controller

"Operation": Red = When at least one luminaire is not operationally ready, e.g. blocked

"FT": Yellow = When at least one luminaire is currently undergoing a function test (luminaire test)

"OT": Yellow = When at least one luminaire is currently undergoing an operating time test (battery test)

"Blocked": Red = When at least one luminaire is currently blocked

"Ethernet": Red = When communication between the Controller and CGVision has been disrupted

"Malfunction": Red = When at least one luminaire has a malfunction, e.g. battery fault

"Ext. monitor": Red = Malfunction with externally connected device

"Admin logged in": Green = signals that someone is logged in as administrator on the web server for CGLine+ Web-Controller

"Output 1 / 2": Red = Relay outputs in accordance with active configuration

"Inputs 1 / 2": Yellow = Digital inputs in accordance with active configuration

8.3.2 Device status displays

Status displays for the strand selected (red). Strand selection is made by clicking on the strand number in the right strand status (blue)

The screenshot shows the EATON CGVision V6.30 web interface. At the top, there is a search area with fields for Group, System, and Information. Below this is a sidebar with various status indicators (Operation, FT, DT, Blocked, Ethernet, Failure, Ext. Monitor, Admin logged in, Output, Inputs). The main content area displays the status for four lines (Line 1 to Line 4). Each line has a status bar and a 'Zone 1' status bar. A red box highlights the 'Line 1' status panel, and a blue box highlights the 'Line 1' status panel in the right sidebar. The right sidebar also contains control buttons: Block, Release, DT start, DT stop, FT start, Services, Print, Configuration, and Back. At the bottom, there is a table with columns for Group, System, Message, Date, and Status.

Selected strand: All status messages in this window apply to strand 1

"Function test": Yellow = When at least one luminaire in the strand is currently undergoing a function test

"Operating time test": Yellow = When at least one luminaire is currently undergoing an operating time test

"Delayed emergency lighting": Yellow = When at least one luminaire is still in delayed emergency lighting following a power cut

"Battery fault": Red = When at least one luminaire has a battery fault

"Luminaire malfunction": Red = When at least one luminaire has an LED fault

"Deferred operating time test": Red = When at least one luminaire has a deferred operating time test, because less than 24 hours earlier there was a partial discharge

"Battery operation": Red = When at least one luminaire is battery operated

"Communication": Red = When at least one luminaire has a communication disruption with the Controller

"Blocked": Red = When at least one luminaire in the strand is blocked

"Error in operating time test": Red = When at least one luminaire has not passed the operating time test (battery test)

"Function test error": Red = When at least one luminaire has not passed the function test (luminaire test)

"Deferred function test": Red = When at least one luminaire has deferred the function test, because a partial discharge took place earlier

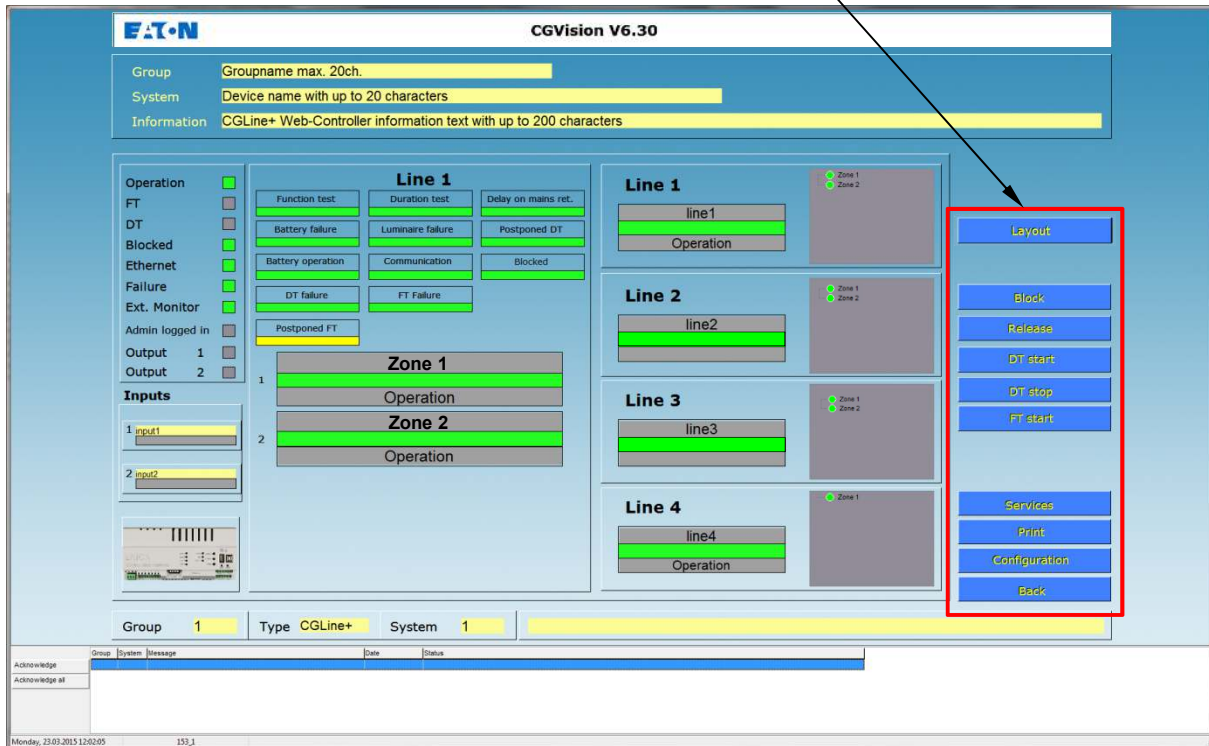
Total zone status:

The configured zones and their total status are shown in the lower part of the window. In the case of 4-strand operations this can be 2, 4, 5 or 8 zones and in the case of 2-strand operations 4, 8, 10 or 16 zones.

In CGLine compatibility mode only 1 zone is possible for each! By clicking on the relevant zone you access the zone image with the luminaires installed.

8.3.3 Function buttons

Functions of the buttons for Commando or configuration settings



a). „Layout“

Access first available installed building layout picture with positions of luminaries for this device
(Option available only in the Pro Packages versions! & Building layout must be activated in the main settings via „Layout“
→ Go to „main group picture“ → Settings → Folder „General“ → Graphic mode)

b). "Block"

This opens a menu that gives the option of blocking all the luminaries or the luminaries in one strand

c). "Release"

This opens a menu that gives the option of releasing all the luminaries or the luminaries in one strand

d). "Start duration time test"

This opens a menu that gives the option of starting an operating time test for all the luminaries or the luminaries in one strand, or the luminaries in a test group

e). "Stop duration time test"

This opens a menu that gives the option of stopping an operating time test for all the luminaries or the luminaries in one strand, or the luminaries in a test group

f). "Start function test"

This opens a menu that gives the option of starting a function test for all the luminaries or the luminaries in one strand, or the luminaries in a test group

g). "Services"

Different services for the inspection log book and the configuration, such as save or load the group configuration

h). "Print"

A screenshot of the current image is printed

i). "Configuration"

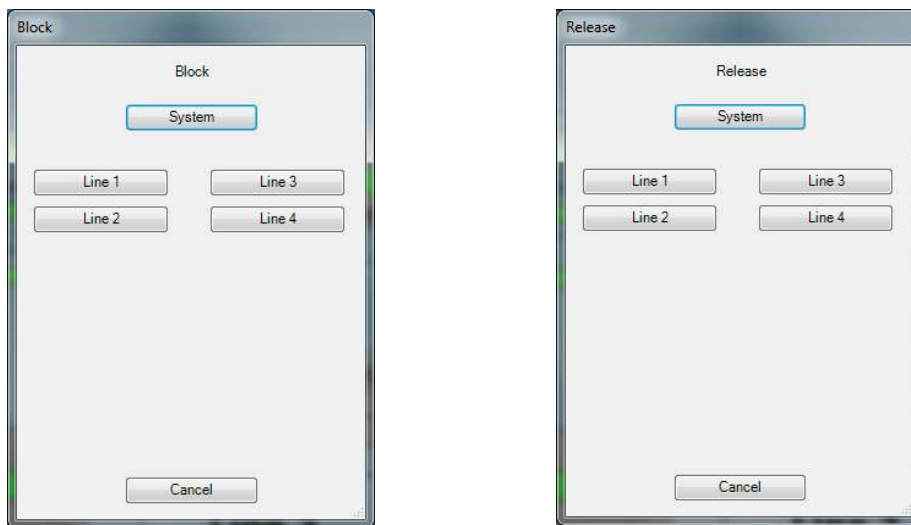
Configuration settings for all the basic settings for the CGLine+ Web-Controller, for example test groups, etc.

j). "Back"

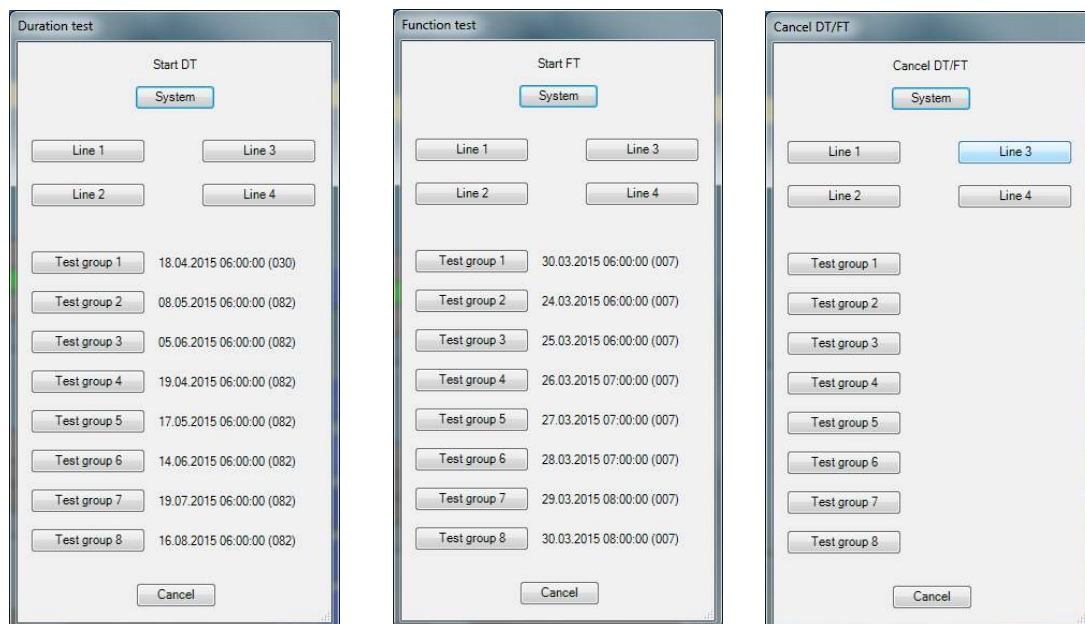
Back to main group image

To a). Call up the outlines available in this device group
(option must be activated and outlines must be installed, see chapter entitled "Outline programming")

To b) - c). By clicking on block / release a menu opens up for the selection of all the luminaries in the controller = installation, or to block the luminaries in the individual strands 1 to 4.

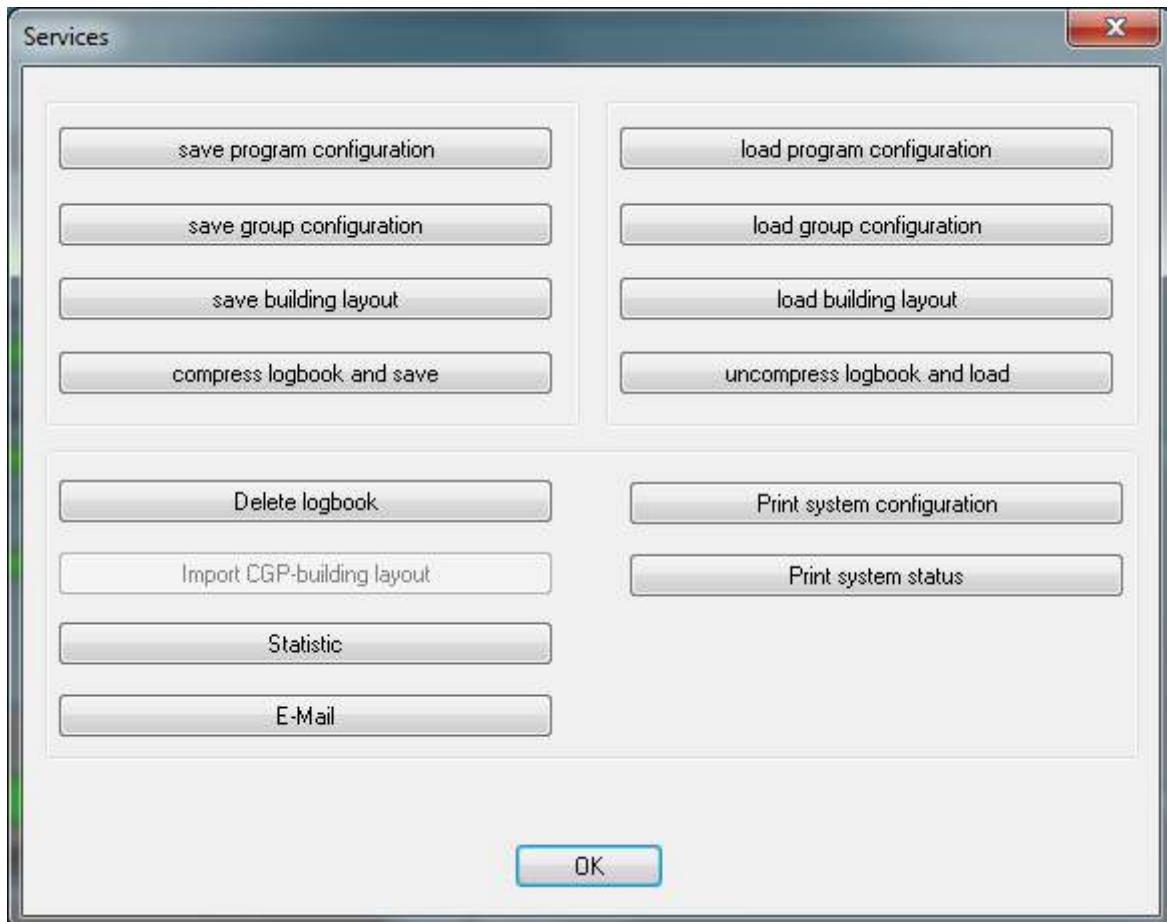


To d) - f). By clicking on OT start, FT start or OT/FT stop a menu opens up for the selection of all the luminaries in the controller = installation, to start/stop an OT/FT for the luminaries in the individual strands 1 to 4, or for the luminaries for an individual test group 1 to 8 (depending on how many test groups were previously configured). To the right of the buttons for the test groups the configured times for the automatic OT / FT can be seen.



To g). "Services"

Different services for the inspection log book and configuration



The "Services" menu is identical to the "Services" menu in the device group image, the only difference being that the status print refers only to the one device. An exact description for safeguarding and/or loading programme configurations/group configurations can be found in chapter 2. "Installation group image" under j) "Services".

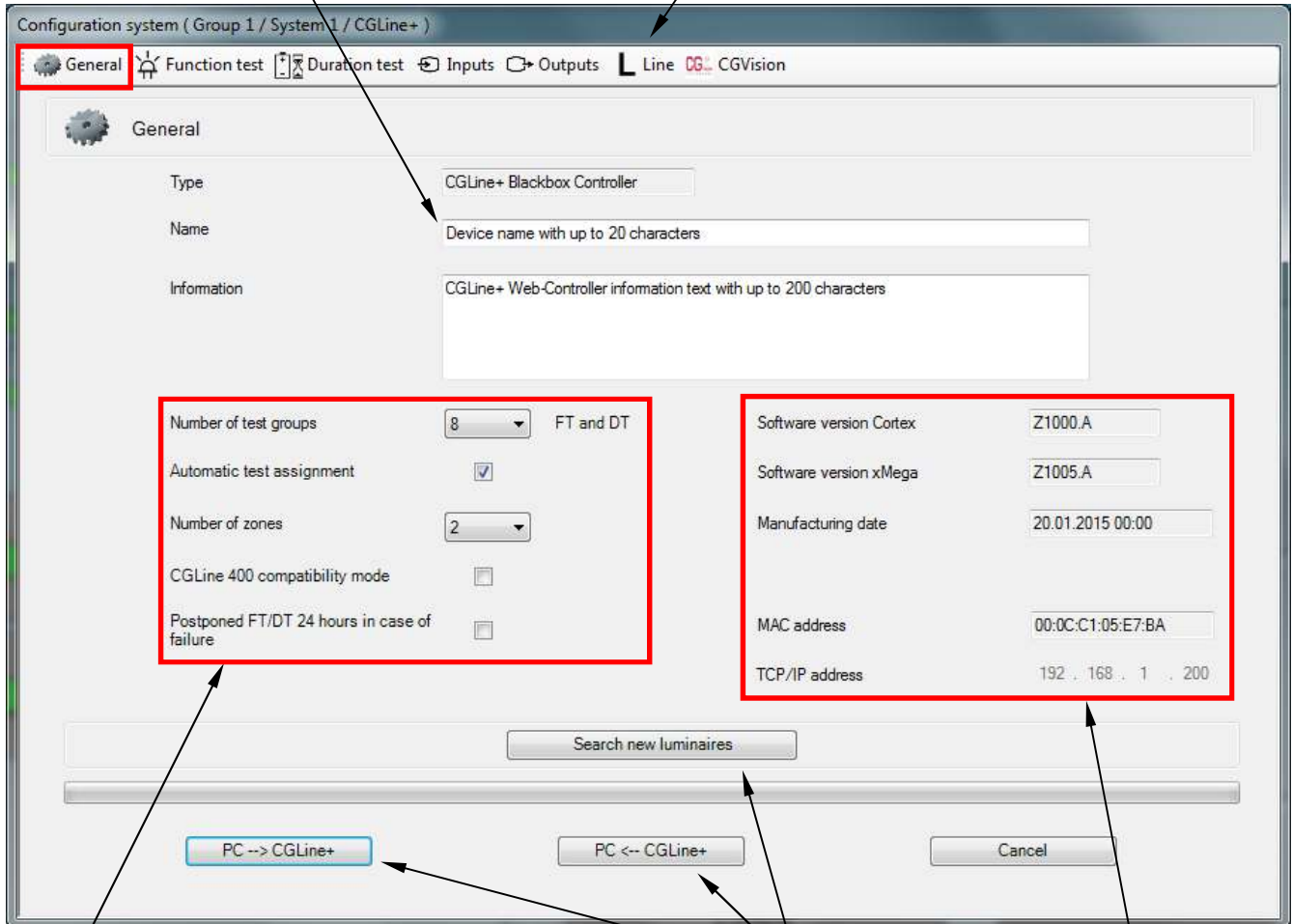
A text file is generated with "Statistics", in which the number of devices and luminaries is listed.

Using "E-mail" it is possible to send e-mails with attachments, such as the inspection log book, simply to specific recipients. See chapter "CGVision e-mail function"

To i). "Configuration" (CGLine+ Web Controller)
a). General

Entry of device name and additional information

Selection of sub-menus for the configuration of the CGLine+ Web-Controller



Number of test groups: The number of test groups for the automatic operating time test and the function test for the CGLine+ luminaires can be set here, at between 1 and 8 test groups.
 The settings for the OT/FT times are carried out in the next sub-menu "Function Test" and "Operating Time Test".
Automatic test allocation: Automatically allocates the luminaires to the test groups according to order
 Classification is greatly simplified by this.
Number of zones: The number of zones can be prescribed here. With 4-strand operations this is 2, 4, 5 or 8 zones. With 2-strand operations this is 4, 8, 10 or 16 zones.
 The number of luminaires in a strand are distributed equally between the zones, e.g. with 4-strand operations with 4 zones it is 50 luminaires per zone.
CGLine400 compatibility mode: As soon as at least one CGLine luminaire is connected, the controller works in compatibility mode. No CGLine+ functionalities are available.
Postpone FT/OT by 24 hours....: If an automatic OT/FT cannot be carried out, for example battery still discharged following power failure, the test can be automatically postponed by 24 hours.

Using the button "PC → CGLine" the new configurations are loaded in the controller. With "PC ← CGLine" the existing configurations can be downloaded from the device to the PC.

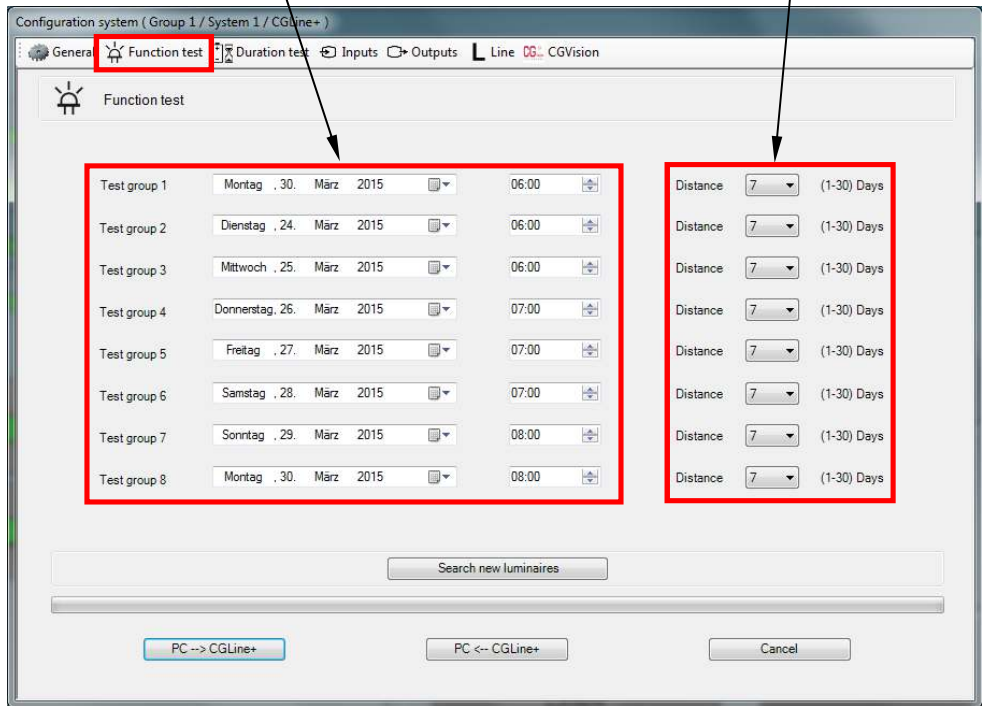
Display of the software status in the controller and the production date, as well as the current MAC address and the controller's IP address set.

**To i. "Configuration" (device)
b). Function test**

The text can be directly edited in order to set the test date and time, or a selection can be made via the calendar, by clicking on the calendar symbol

In the right-hand side the interval for the function test can be set between 1 and 30 days. The default is weekly (7 days)

In the function test menu the automatic FT times and the intervals for the different test groups 1 to 8 can be set. Only the test groups that have been set are visible.

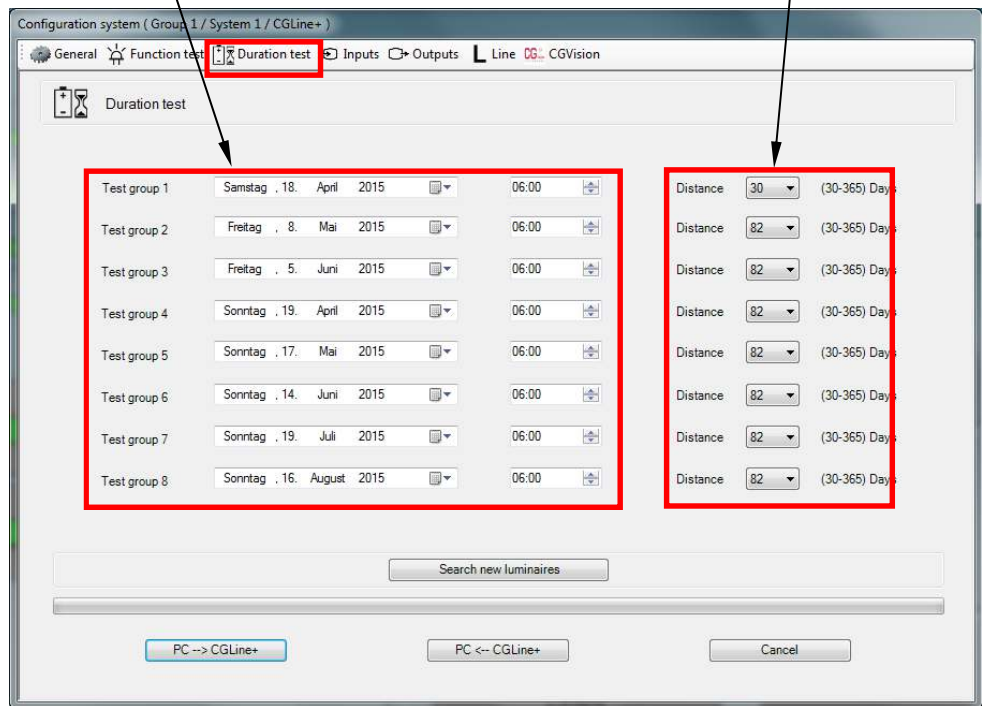


c). Battery life test

The text can be directly edited in order to set the test date and time, or a selection can be made via the calendar, by clicking on the calendar symbol

In the right-hand side the interval for the operating time test can be set between 30 and 365 days. The default is 12 weekly (82 days)

The same applies for the operating time test for the luminaires as for the function test



To i. "Configuration" (device) d). Inputs

In the "Inputs" menu the two digital inputs can be programmed freely

Outputs 1 and 2 must be activated via a tick so that they can be configured.

Name:

Free name with max. 20 digits

Configuration:

Closing = active when input

short-circuited

Opening = active when input open

Rest mode:

Activate rest mode (see web controller user manual)

Switch off continuous lighting:

The luminaires can be switched off by strand via "Switch off continuous lighting"

Start FT:

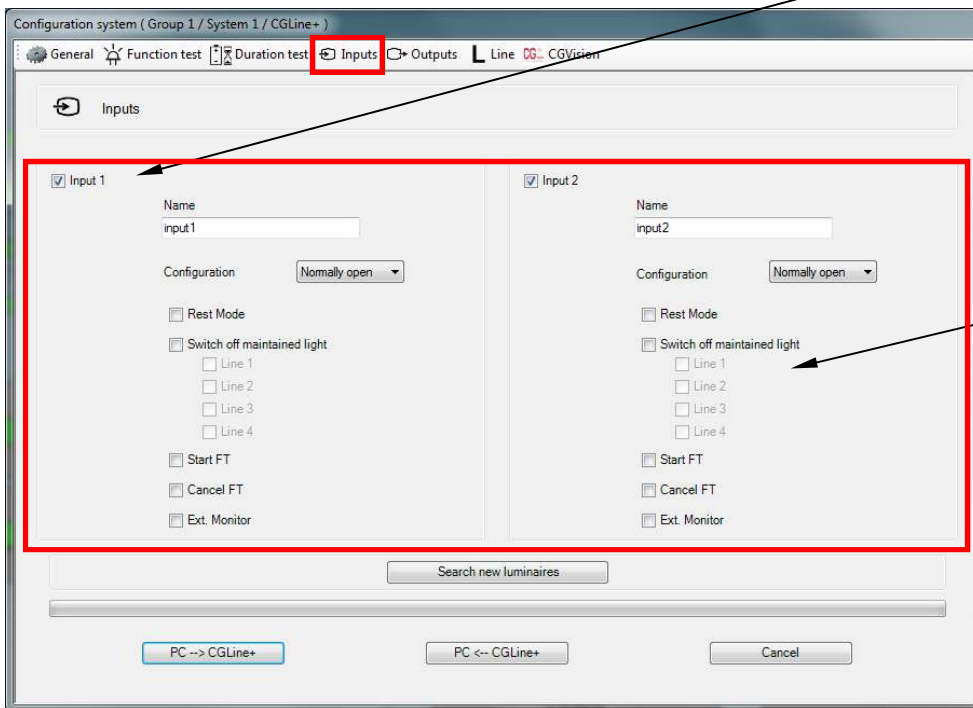
Starts function test for all luminaires

Stop FT:

Stops active FT for all luminaires

Ext. monitor:

Displays externally connected contact, e.g. error message from an alarm system



e). Outputs

In the "Outputs" menu the two relay contacts can be programmed freely

Relays 1 and 2 must be activated via a tick so that they can be configured.

Name:

Free name with max. 20 digits

Configuration:

Closing = active when input

short-circuited

Opening = active when input open

Communication error:

Communication malfunction of min. 1 luminaire to controller

Battery operation:

Min. 1 luminaire is battery operated

Function test:

Min. 1 luminaire is in FT

Battery life test:

Min. 1 luminaire is in BT

Charge fault:

Min. 1 luminaire has a charge fault

Test error:

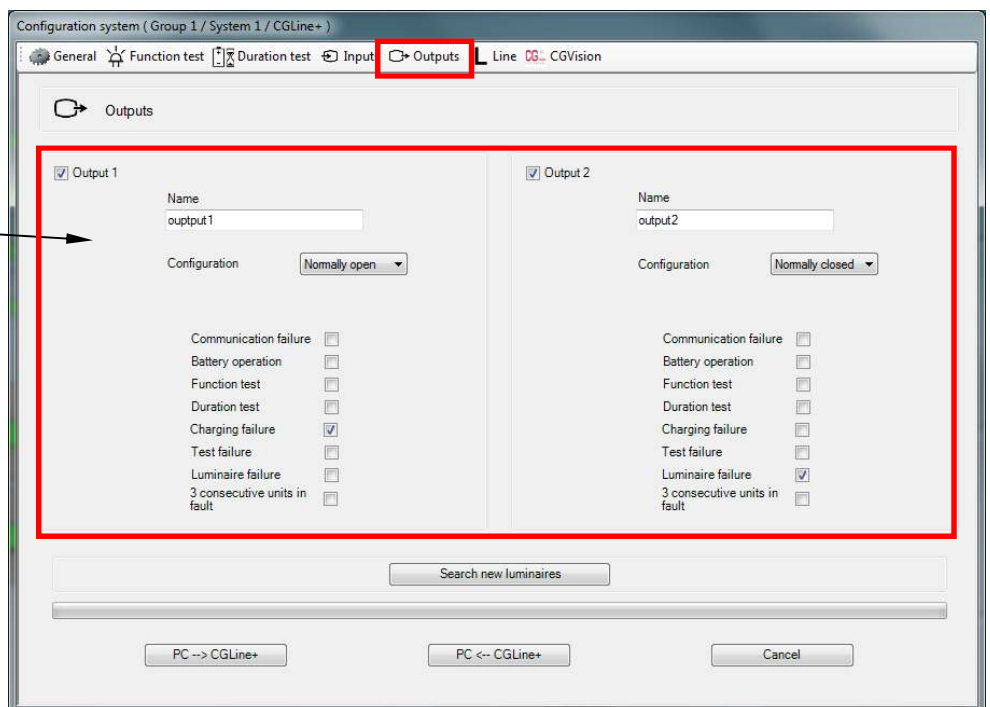
Min. 1 luminaire has an OT or FT error

Luminaire fault:

Min. 1 luminaire has an LED fault

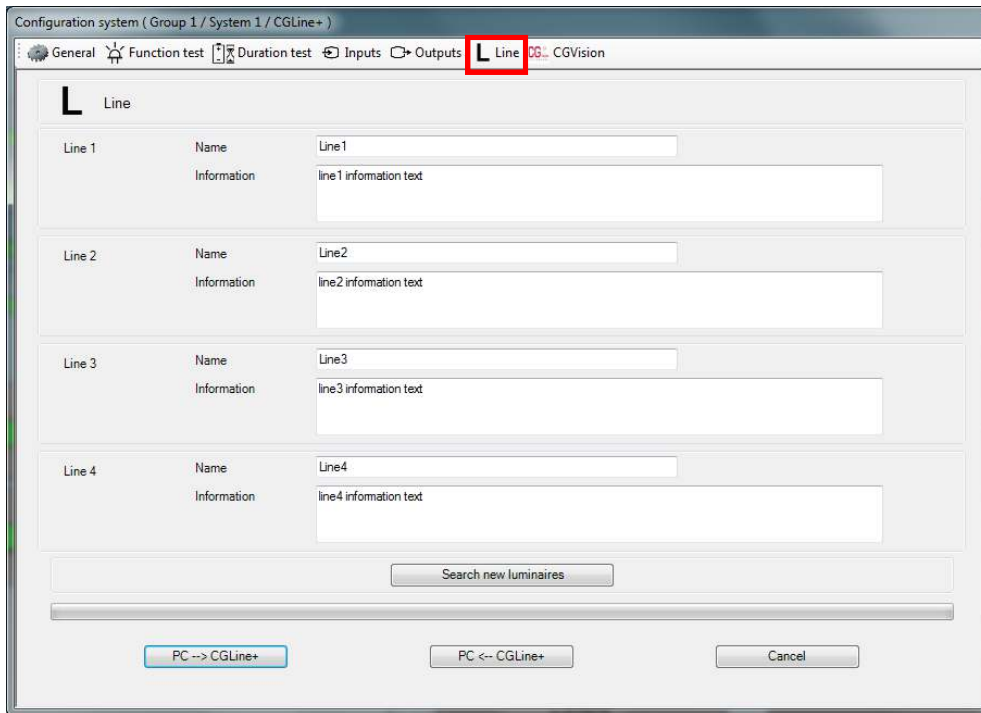
3 luminaires faulty:

Min. 3 adjacent luminaires have a fault



**To i. "Configuration" (device)
f). Strand**

In the "Strand" menu target location texts can be allocated to the strands. Name with max. 20 characters and information with max. 200 characters. The name appears in the head of the line display in the device picture

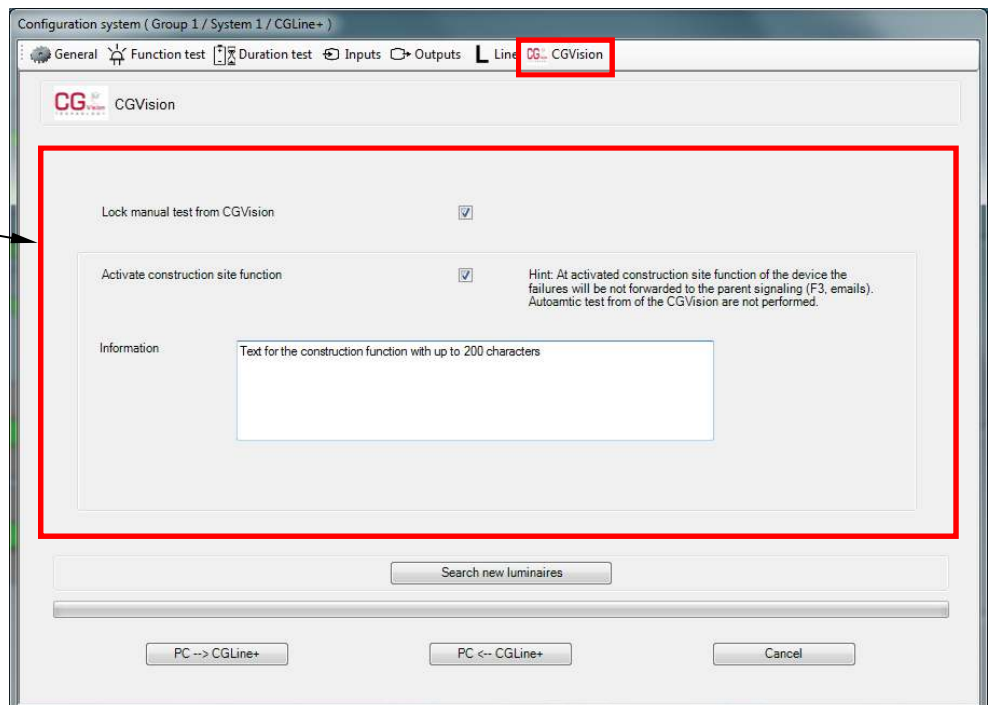


g). CGVision

In the "GCVision" menu manual texts from GCVision can be blocked and a construction site function activated

Block manual tests:
If the tick has been activated, it is no longer possible to start a manual test from CGVision. Only the automatic tests are still active in CGVision

Activate construction site function:
Using the construction site function the automatic tests are deactivated and messages by e-mail or to a GLT with F3 module are suppressed, e.g. during maintenance work to the CGLine+ system. Once the construction site function is activated it is possible to enter an information text, such as the reason



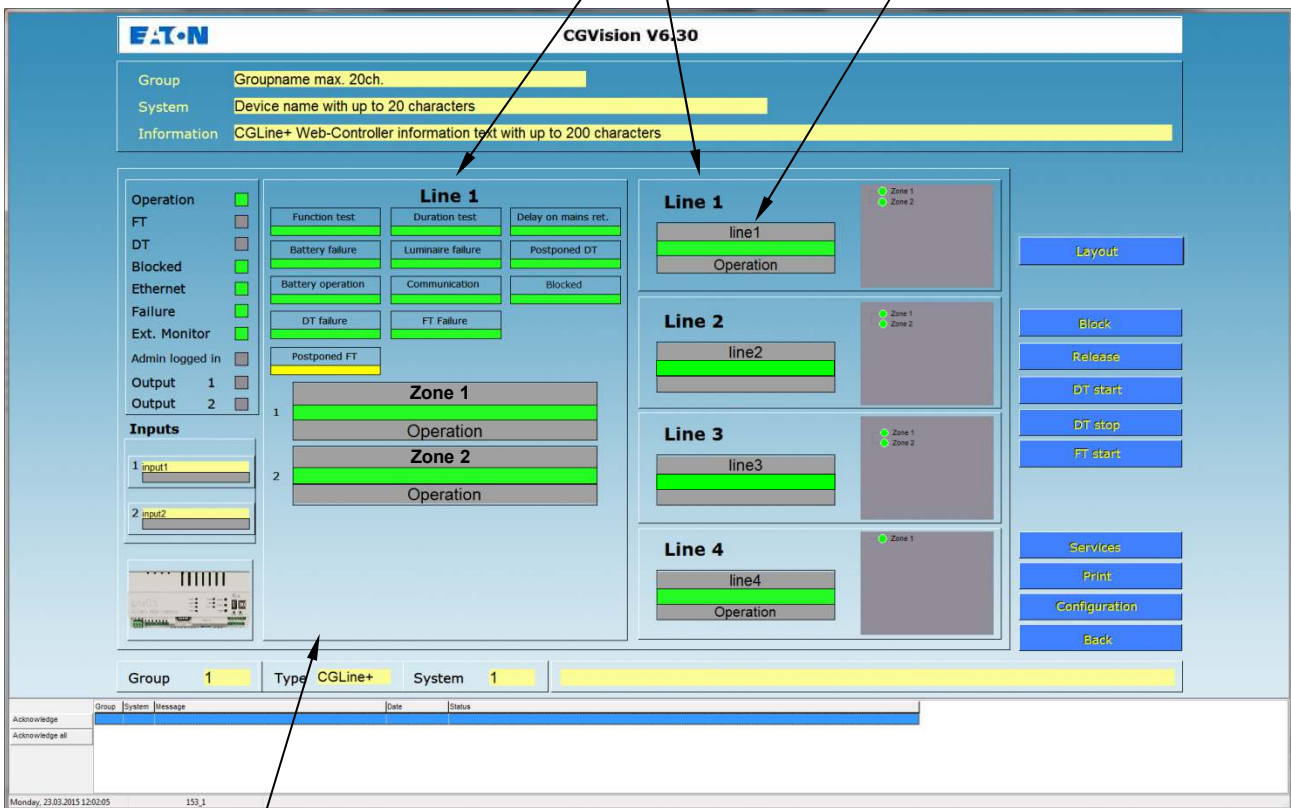
8.4 Device image / zone image / luminaire image

8.4.1 Assembly of device image with strand status

The full status of the device and the strand status of a selected strand are displayed in the device image.

Installed strands are displayed with buttons with a coloured background. By clicking on a strand, the status and the zones installed in the relevant strand are displayed in the left-hand side

Text of the lines are free editable in menu configuration



By clicking on the zone required in the strand the "Zone image" opens up.

8.4.2 Assembly of zone image

The status of all the luminaries in the zone is shown in the zone image. Depending on the selection of the number of zones the number of luminaries within the zones changes accordingly!

In the case of 4-strand operations the following zones/luminaries are possible:

2 zones with 100 luminaries each, 4 zones with 50 luminaries each, 5 zones with 40 luminaries each and 8 zones with 25 luminaries each.

In the case of 2-strand operations the following zones/luminaries are possible:

4 zones with 100 luminaries each, 8 zones with 50 luminaries each, 10 zones with 40 luminaries each and 16 zones with 25 luminaries each.

The example illustrates the following: 4-strand operations with 4 zones and 50 luminaries each

Text fields for information, e.g. device, location...

Function buttons:
Only operate luminaries in this strand
The system asks you whether the whole strand or individual zones should be steered

Text of the Zones are free editable in menu configuration

Strand display:
Current strand
Current zone

By clicking on an installed luminaire in the zone image it is possible to access the luminaire image See next page

Status display of the zone, i.e. with min. disruption to a luminaire the field changes to red = malfunction
By clicking on the relevant message an expanded display appears
See point x.x.x

Display of:

- Device group in CGVision (1 to 15)
- Device type, e.g. CGLine+
- Device (installation) in the group (1 to 32)

Via Configuration it is possible to access the luminaire configurations in the strand (see point 8.4 Luminaire configuration)

Alarm list for the last 7 events with acknowledgement option

Installed luminaries with status display:
Green = luminaire OK – permanent lighting OFF
Yellow = luminaire OK – permanent lighting ON
Red = luminaire broken

8.4.3 Assembly of luminaire image

Information field with:
 Group name / controller name / zone name / luminaire name / additional information on the luminaire, as well as luminaire information on:
 Hex ID / luminaire type / software version and last time recorded in the operating time test

Switching state of the luminaries:
 Grey = off (continuous light OFF)
 Yellow = on (continuous light ON)

Display of luminaire information:
 Current strand / zone / luminaire

Installed luminaries with status display
 Grey = OFF
 Yellow = On
 Red = Failure

The screenshot shows the CGVision V6.30 interface. At the top, there's a header with the EATON logo and 'CGVision V6.30'. Below that is a configuration form with fields for Group, System, Zone, Luminaire, ID, Type, Version, and DT-time. A red box highlights this form. Below the form is a grid of 100 luminaires, with the first three columns labeled 'Line', 'Zone', and 'Luminaire'. The first three cells in the first row are highlighted in yellow. To the right of the grid is a list of tests for the selected luminaire, such as 'Duration test', 'Luminaire failure', 'Function test', 'Charging failure', etc. A red box highlights this list. At the bottom right, there are buttons for 'Layout', 'Print', 'Configuration', and 'Back'. The 'Configuration' button is highlighted in red. At the bottom left, there is an 'Alarm list with acknowledgement option' section.

Expanded status displays for the luminaries, e.g. luminaire malfunction
 Green = OK
 Red = malfunction
 By clicking on the left mouse button an error list appears with all the luminaries affected with the same fault

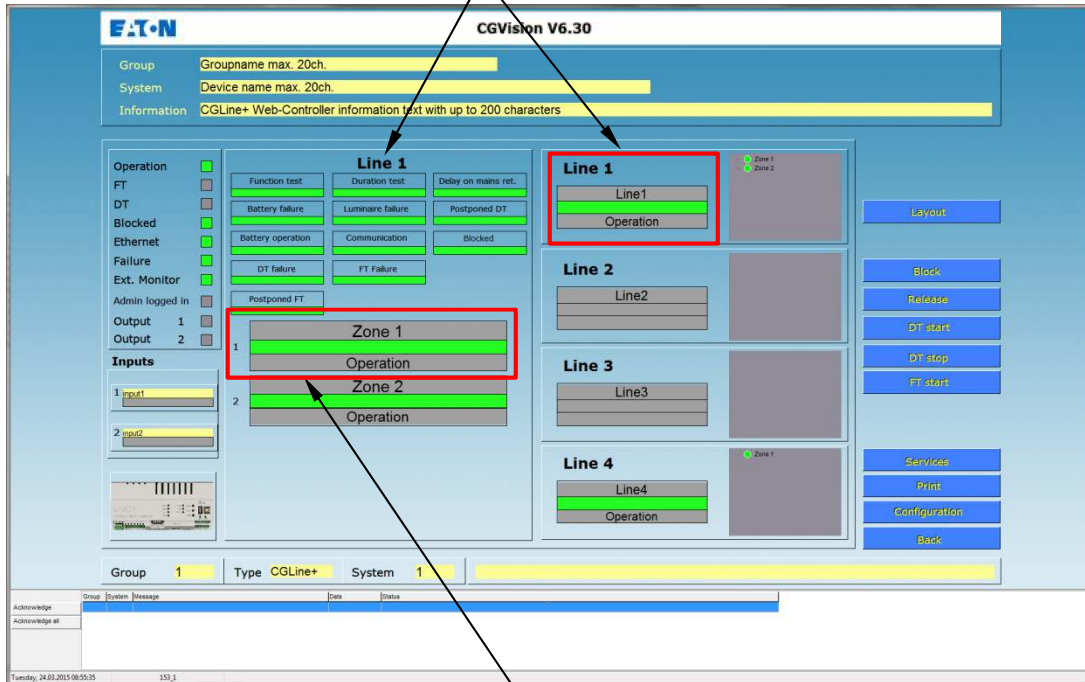
Alarm list with acknowledgement option

The luminaire texts can be edited via the configuration, and an DT/FT triggered for these luminaries

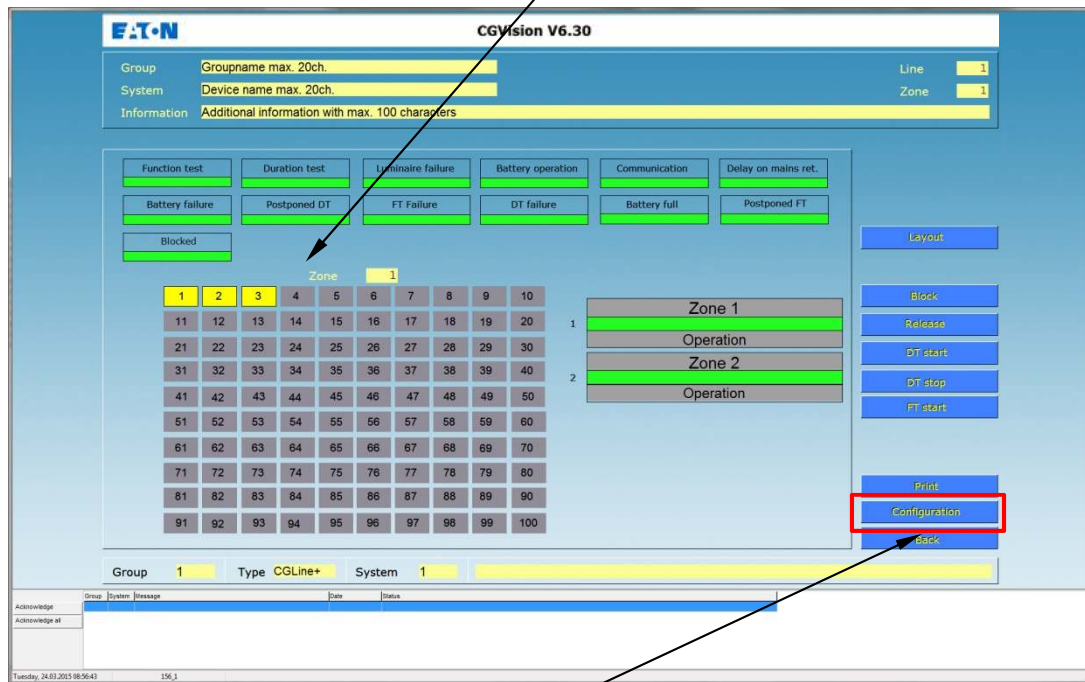
8.5 Luminaire configuration in a line

After a luminaire search all found luminaires will be automatically addressed with a short logical address according to their HEX-addresses from the lowest to the highest number (1-200). These luminaires can be configured e.g. with new short address, zone assignment, name and additional information text.

Luminaires of a line can be configured in the zone view via the menu „configuration“.
First the desired line no. must be selected, e.g. line1



By clicking on zone 1, the zone view appears with all automatically addressed luminaires.



The luminaire configuration can be started in the menu „configuration“

In the new screen, the right part allows selected luminaires to move to a desired position in the left part or swap addresses with other luminaires. In the left part it is possible to add or edit the names and information text of the assigned luminaires.

The screenshot shows the 'Configuration (Line 1)' window. Callout boxes provide the following information:

- Selection of the zone:** Points to the 'Zone 1' and 'Zone 2' tabs at the top left.
- Name (up to 20 characters) and additional information text (up to 200 characters) of the zone:** Points to the 'Name' and 'Information' input fields for 'Zone 1'.
- Automatic test assignment allows the automatic assignment of the luminaires to the selected test groups from 1 until 8:** Points to the 'Automatic test assignment' button.
- Selection of the luminaires for change:** Points to the list of luminaires on the right side of the window.
- Search option to search HEX-addresses in the installation:** Points to the search bar and 'search' button on the right.
- Send configuration from PC to the Controller or download the configuration from the controller to the PC:** Points to the 'PC --> CGLine+' and 'PC <-- CGLine+' buttons at the bottom.

The interface includes a table for the luminaire list:

Adr	ID	Test group	Name	Information	Category
1	EE4BEA	1	GuideLED RZ PU	Information of the luminaire with max. 200 characters	
2	EE4BED	2	Line 1 Luminaire 002		
3	EE4BEE	3	Line 1 Luminaire 003		
4	EE4BF1	4	Line 1 Luminaire 004		
5		5			
6		6			
7		7			
8		8			
9		1			
10		2			
11		3			
12		4			
13		5			
14		6			
15		7			
16		8			
17		1			
18		2			
19		3			
20		4			
21		5			

Luminaire list of the zone in tabular form, which allows an easy „copy&paste“ from an excel file with the following columns:

- Logical short address
- HEX-ID of the luminaire (fixed)
- No. of the test group for automatic DT/FT
- Name of the luminaire (max. 20 characters)
- Additional information of the luminaire (max. 200 characters)
- Category (e.g. Exit sign)

Via „new luminaire search“ all existing luminaire configurations will be remain unchanged. Only new luminaires will be added to the line list. To search all connected luminaires, it is necessary to „delete all“ first. Via „Import“ all datas can be loaded, that have been saved via „Export“

8.5.1 Moving luminaires within a zone

- Select the desired zone in both windows, e.g. zone1 (1)
- Select the luminaire which should be moved in the right window (2)
- Select the desired destination address in the left window (3)
- Press button „<<move to“ (4)

Configuration (Line 1)

Zone 1 Zone 2

Zone 1
Name: Zone 1
Information: Additional information with max. 100 characters

Adr	ID	Test group	Name	Information	Category
1	EE4BEA	1	GuideLED RZ PU	Information of the luminaire with max. 200 characters	
2	EE4BED	2	Line 1 Luminaire 002		
3	EE4BEE	3	Line 1 Luminaire 003		
4	EE4BF1	4	Line 1 Luminaire 004		
5		5			
6		6			
7		7			
8		8			
9		1			
10		2			
11		3			
12		4			
13		5			
14		6			
15		7			
16		8			
17		1			
18		2			
19		3			
20		4			
21		5			

Line 1
All ID search

- Zone 1
 - 1 EE4BEA GuideLED RZ PU
 - 2 EE4BED Line 1 Luminaire 002
 - 3 EE4BEE Line 1 Luminaire 003
 - 4 EE4BF1 Line 1 Luminaire 004
- Zone 2

<< move to < Swap > >> Delete

Search new luminaires Import Export

Remove all Update all luminaires (slow)

PC --> CGLine+ PC <-- CGLine+ Cancel

Example showing a move from address 4 to address 14

Configuration (Line 1)

Zone 1 Zone 2

Zone 1
Name: Zone 1
Information: Additional information with max. 100 characters

Adr	ID	Test group	Name	Information	Category
1	EE4BEA	1	GuideLED RZ PU	Information of the luminaire with max. 200 characters	
2	EE4BED	2	Line 1 Luminaire 002		
3	EE4BEE	3	Line 1 Luminaire 003		
4		4			
5		5			
6		6			
7		7			
8		8			
9		1			
10		2			
11		3			
12		4			
13		5			
14	EE4BF1	6	Line 1 Luminaire 004		
15		7			
16		8			
17		1			
18		2			
19		3			
20		4			
21		5			

Line 1
All ID search

- Zone 1
 - 1 EE4BEA GuideLED RZ PU
 - 2 EE4BED Line 1 Luminaire 002
 - 3 EE4BEE Line 1 Luminaire 003
 - 14 EE4BF1 Line 1 Luminaire 004
- Zone 2

<< move to < Swap > >> Delete

Search new luminaires Import Export

Remove all Update all luminaires (slow)

PC --> CGLine+ PC <-- CGLine+ Cancel

8.5.2 Moving luminaires to another zone

- Select the desired zone and luminaire in the right windows (1)
- Select the new zone in the left windows (2)
- Select the desired destination address in the left window (3)
- Press button „<<move to“ (4)

The screenshot shows the 'Configuration (Line 1)' window. At the top left, 'Zone 2' is selected in the 'Zone 1' / 'Zone 2' dropdown, with a red circle '2' around it. In the top right, the tree view shows 'Line 1' expanded to 'Zone 2', where '4 EE4BF1 Line 1 Luminaire 004' is selected, with a red circle '1' around it. In the main table, row 14 is highlighted in blue, with a red circle '3' around the '14' in the 'Adr' column. At the bottom right, the '<< move to' button is highlighted with a red circle '4'. Other buttons like '< Swap >' and '>> Delete' are also visible.

Adr	ID	Test group	Name	Information	Category
1	EE4BF2	1	Line 1 Luminaire 005		
2		2			
3		3			
4		4			
5		5			
6		6			
7		7			
8		8			
9		1			
10		2			
11		3			
12		4			
13		5			
14		6			
15		7			
16		8			
17		1			
18		2			
19		3			
20		4			
21		5			

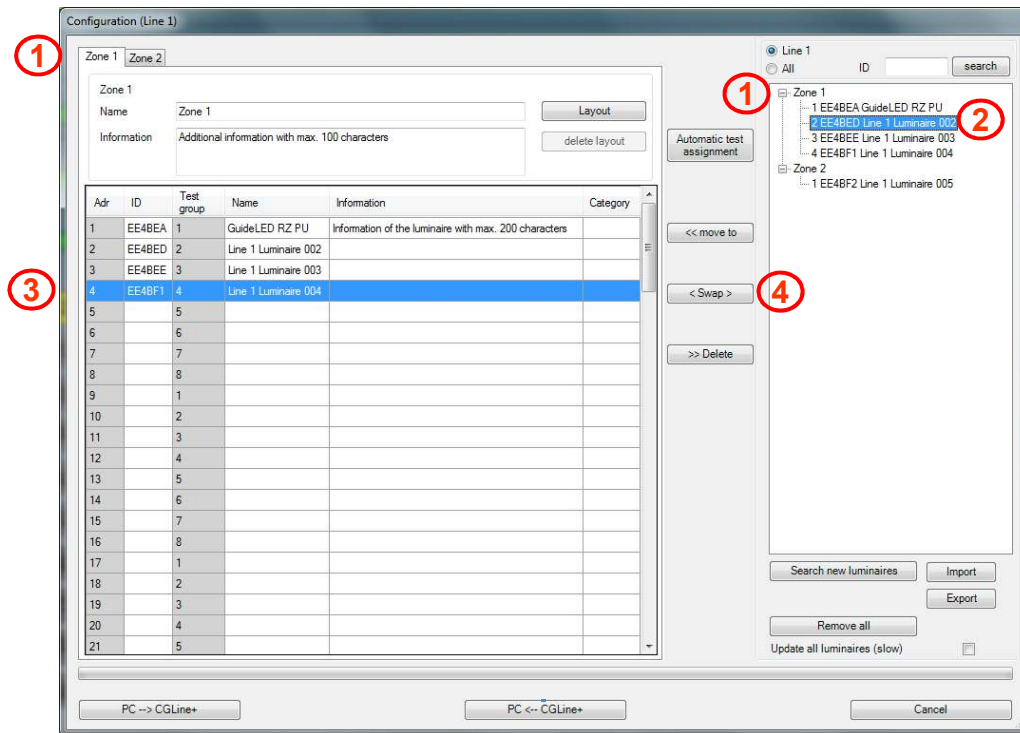
Example showing the move from zone 1, address 4 to zone 2, address 14

This screenshot shows the same 'Configuration (Line 1)' window. The 'Zone 2' dropdown is still selected. In the tree view, 'Zone 1' is expanded, and '3 EE4BEE Line 1 Luminaire 003' is selected. In the main table, row 14 is highlighted in blue, with a red arrow pointing from the '4' in the 'Adr' column of the previous screenshot to this '14'. The '<< move to' button is no longer highlighted.

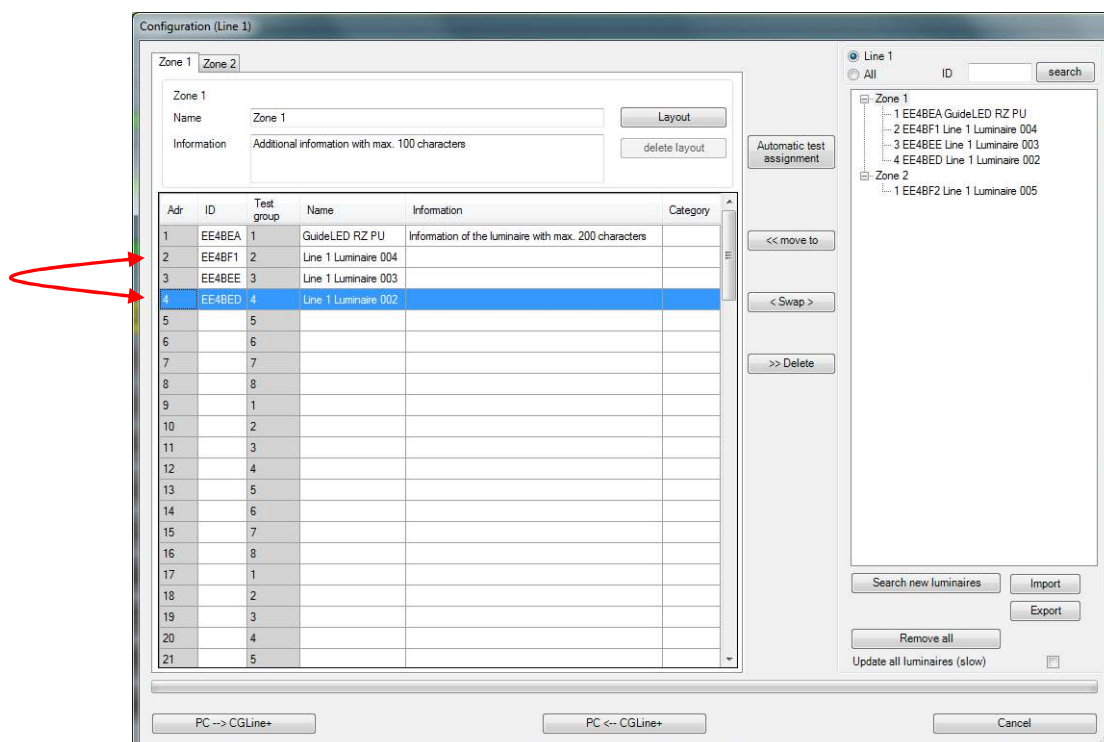
Adr	ID	Test group	Name	Information	Category
1	EE4B2	1	Line 1 Luminaire 005		
2		2			
3		3			
4		4			
5		5			
6		6			
7		7			
8		8			
9		1			
10		2			
11		3			
12		4			
13		5			
14	EE4BF1	6	Line 1 Luminaire 004		
15		7			
16		8			
17		1			
18		2			
19		3			
20		4			
21		5			

8.5.3 Swapping luminaires within one zone

- Select the desired zone in both windows, e.g. zone1 (1)
- Select the luminaire which should be swapped in the right window (2)
- Select the desired luminaire in the left window (3) which should be swapped
- Press button „<<Swap“ (4)

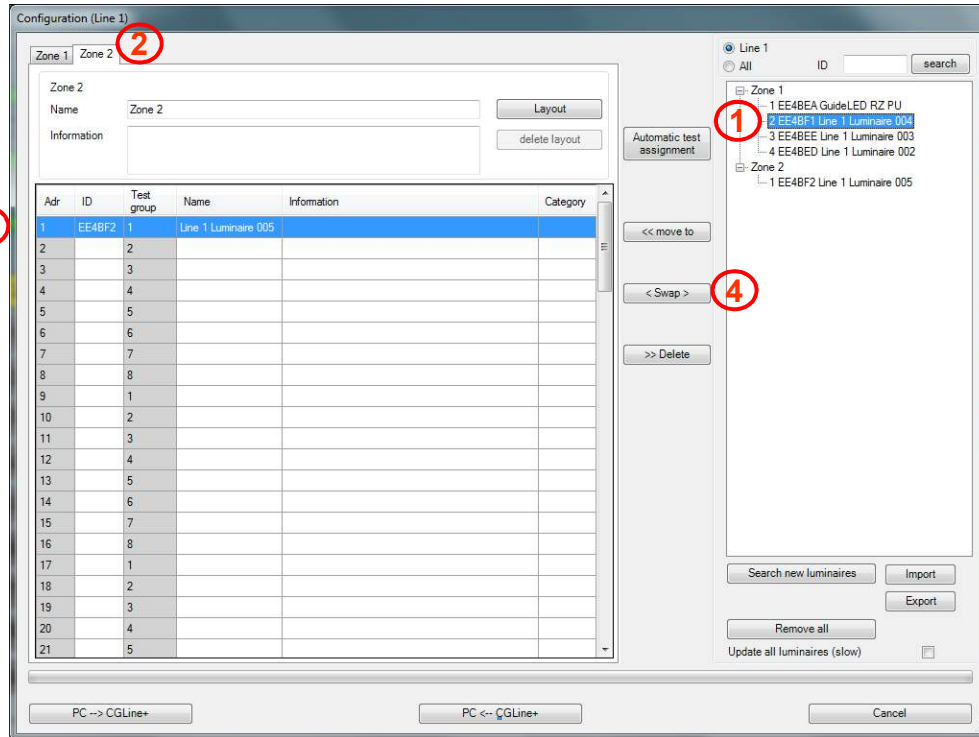


Example showing the swap of address 2 with address 4

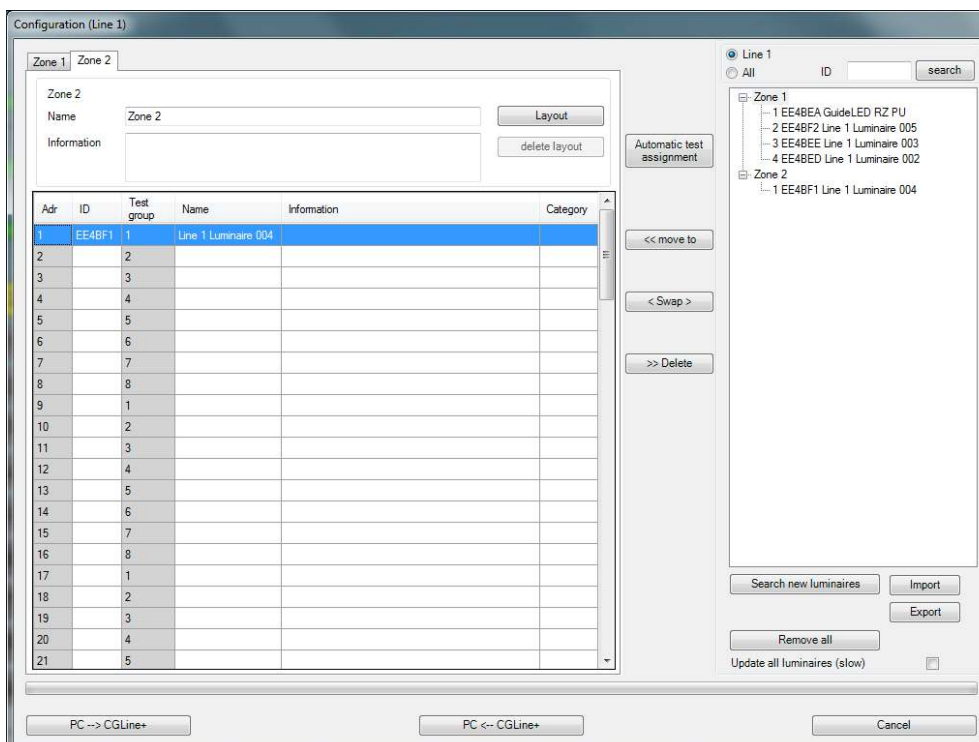


8.5.4 Swapping of luminaires to different zones

- Select the luminaire in the right window which should be swapped (1)
- Selection of the new zone for the luminaire which should be swapped (2)
- Selection the destination address of the luminaire which should be swapped (3)
- Press button „<<Swap“ (4)

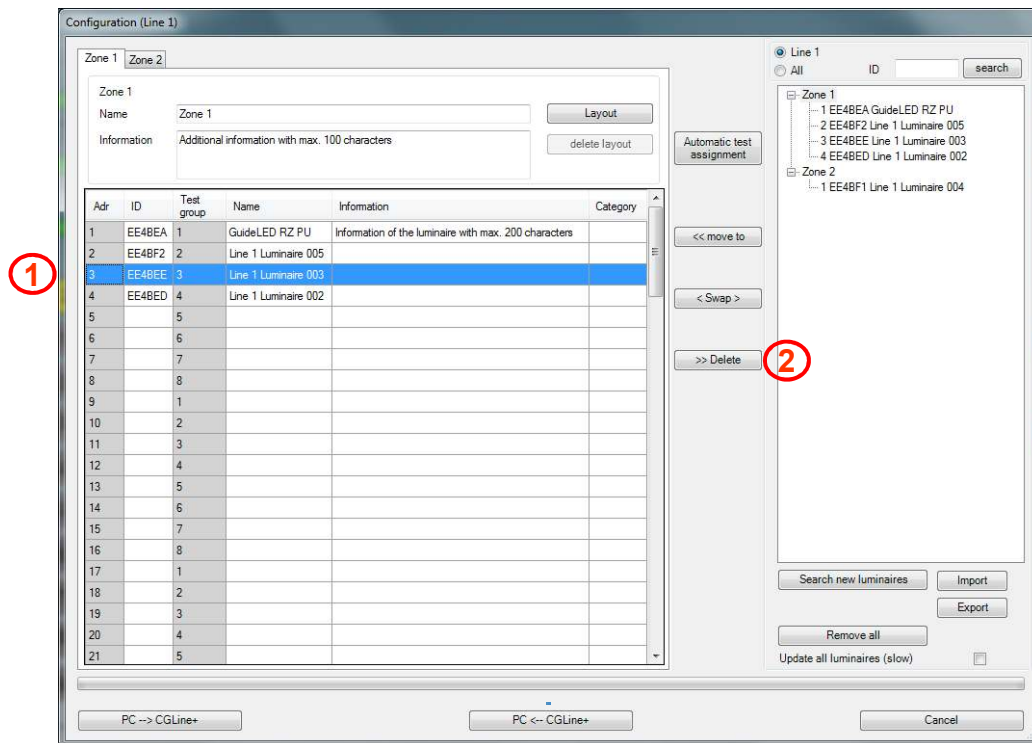


Example showing the swap of a luminaire from zone 1, address2 with a luminaire of zone 2, address 1



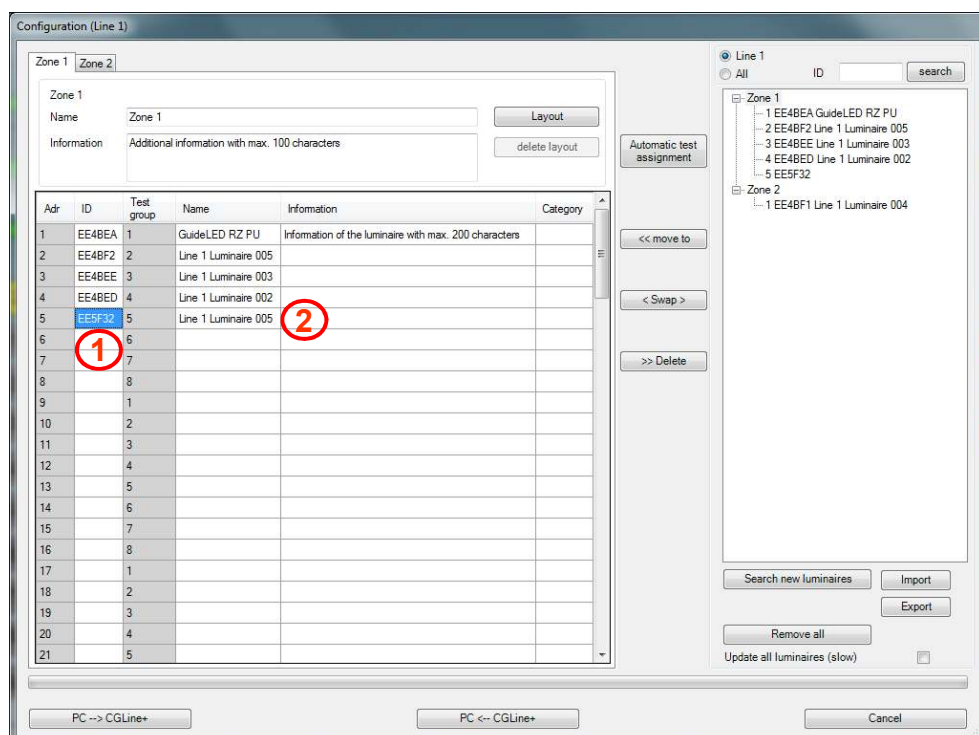
8.5.5 Deleting luminaires

- Select the luminaire in the left windows, which should be delete (1)
- Press button „>>Delete“ (2)
- Luminaire will be deleted, to apply press button „PC → CGLine“, so the new configuration will be sent to the CGLine+ controller



8.5.6 Adding luminaires manually

- Luminaires can be easily added by entering the HEX-ID into the column ID (1)
- A default luminaire name will be added automatically (2)
- It is possible via „copy&paste“ with right mouseclick, to add prepared text from an excel file to the CGLine+ configuration



8.5.7 Editing luminaire name/information text

In the field „Name“ it is possible to add up to 20 characters any text. In the „Information“ field it is possible to add up to 200 characters of additional text, e.g. destination text.
Via „copy&paste“ with right mouseclick, it is possible to add any columns and rows from an excel file.
After entering all luminaire texts, the new configuration must be send to the controller via the button „PC → CGLine+“

The screenshot shows the 'Configuration (Line 1)' window. At the top, there are tabs for 'Zone 1' and 'Zone 2'. Below these, there are input fields for 'Name' and 'Information' for the selected zone, along with 'Layout' and 'delete layout' buttons. The main part of the window is a table with the following columns: Adr, ID, Test group, Name, Information, and Category. The table contains 21 rows, with the 5th row (ID: EE5F32) highlighted in blue. To the right of the table is a tree view showing the configuration structure for 'Line 1', including 'Zone 1' and 'Zone 2' with their respective luminaire IDs and names. Below the tree view are buttons for 'Automatic test assignment', '<< move to', '< Swap >', '>> Delete', 'Search new luminaires', 'Import', 'Export', 'Remove all', and 'Update all luminaires (slow)'. At the bottom of the window are three buttons: 'PC --> CGLine+', 'PC <-- CGLine+', and 'Cancel'.

Adr	ID	Test group	Name	Information	Category
1	EE4BEA	1	GuideLED EXIT	Information of the luminaire with max. 200 characters	
2	EE4BF2	2	GuideLED SL	Information of the luminaire with max. 200 characters	
3	EE4BEE	3	GuideLED EXIT	Information of the luminaire with max. 200 characters	
4	EE4BED	4	GuideLED SL	Information of the luminaire with max. 200 characters	
5	EE5F32	5	GuideLED EXIT	Information of the luminaire with max. 200 characters	
6		6			
7		7			
8		8			
9		1			
10		2			
11		3			
12		4			
13		5			
14		6			
15		7			
16		8			
17		1			
18		2			
19		3			
20		4			
21		5			

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E-mail Info-n@eaton.com

40071347387(M) – Section 8 / 12/12/18
- Subject to technical changes! -

Installation and operating instructions
Visualisation and monitoring software
CGVision and CEAG OPC server

For the monitoring and control of
CEAG emergency lighting systems

CGVision from V6.30

400 71 347 387 (M)



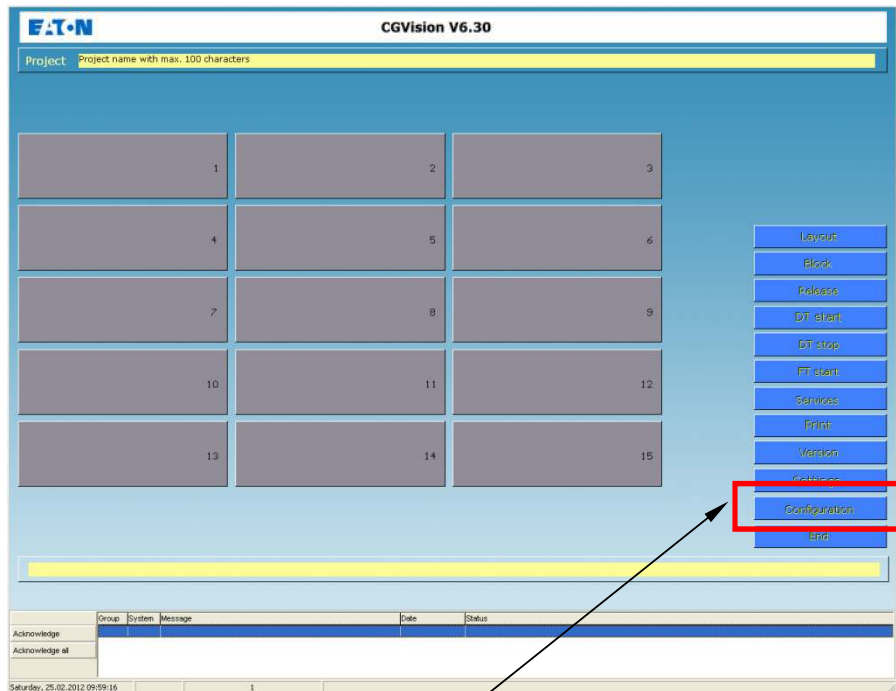
Section 9
Device family CGLine

9 Device family CGLine

9.1 Configuring a CGLine PC interface

9.1.1 Creating a CGLine device group:

Note: A maximum of 8 CGLine PC interfaces each with up to 400 luminaires are possible total: 3,200 luminaires. The interface can be be subdivided into various groups.



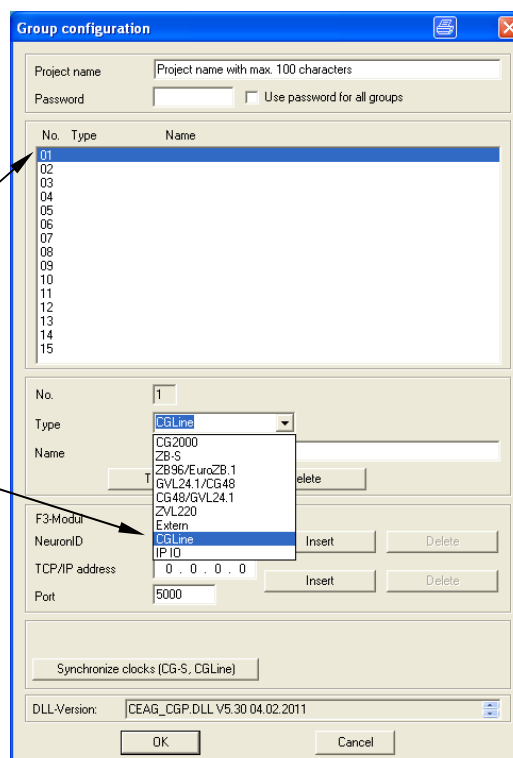
Via the 'Configuration' menu a new device family, e.g. CGLine, can be created

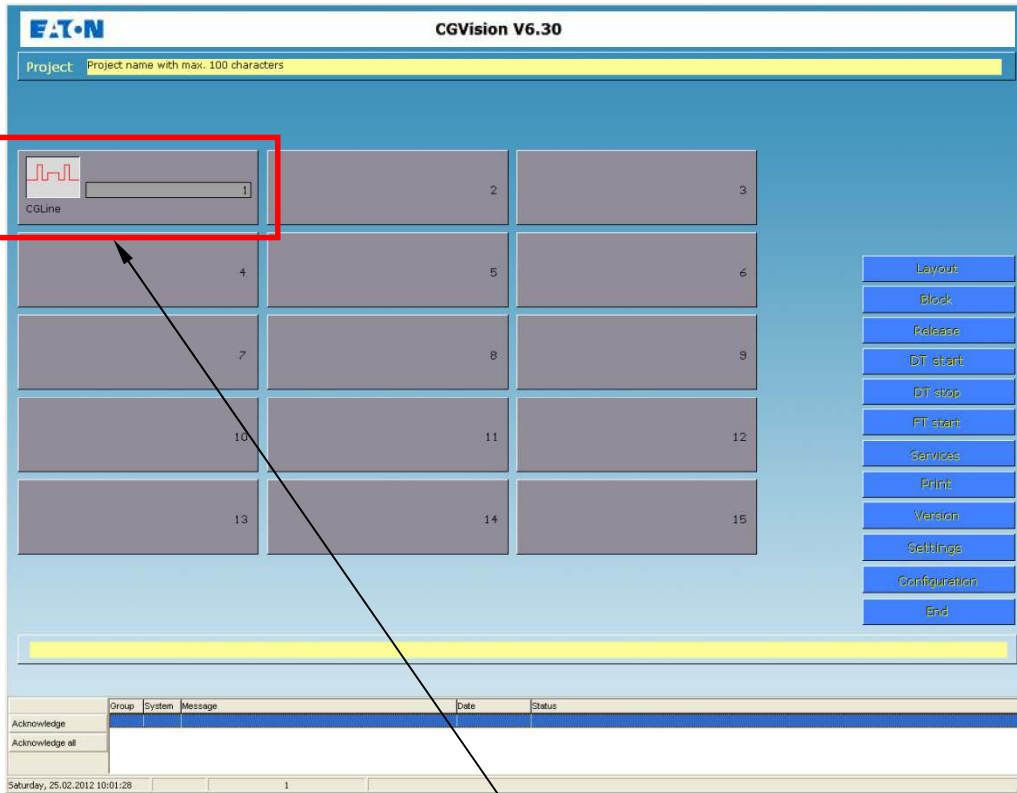
The group configuration menu then appears:

a) In the group selection window a system group can be defined by selecting the corresponding group number (marked blue)

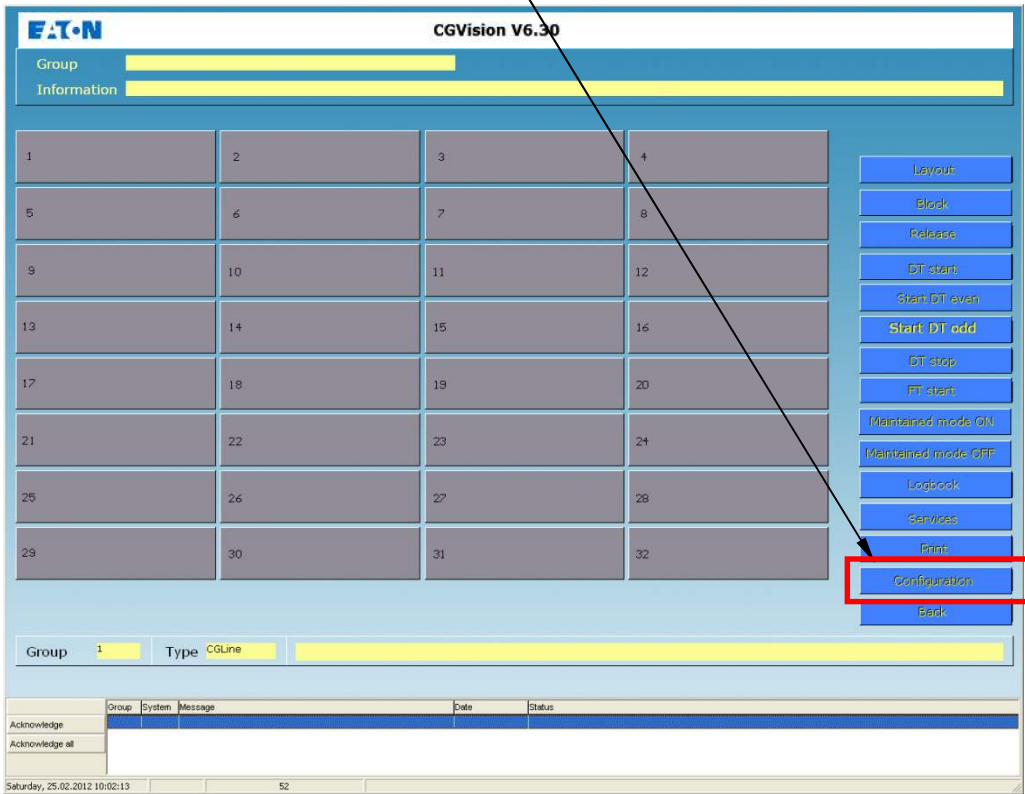
b) In the 'Type' drop-down menu the system type 'CGLine' can be selected and a system group name can be assigned

c) Confirm with 'Accept', define further groups or exit with 'OK'





The system group has now been added. If this group is clicked on, the device group screen is displayed.
Up to 8 8 CGLine interfaces can now be created via the 'Configuration' menu



The system configuration menu then appears:

a) In the device selection window a system can be defined by selecting the corresponding device address (marked blue).

b) In the 'System type' drop-down menu 'CGLine' must be selected.

c) The 12-character IP address of the device must now be entered. This is factory-set as standard to **192.168.1.200**. We urgently recommend modifying this address according to specifications from your IT department before integration in CGVision. (See operating instructions for the CGLine interface for modifying the IP address)

Confirm with 'Accept', add further groups in the same way or exit with 'OK' **Automatic restarting of CGVision is now required.**

After the CGVision restart the added devices are displayed with type designation in the assigned button. This button is now active and displays the current status via colour designation according to operational state, e.g. green = operational, red = fault, yellow = function test or continuous operation test active.

By clicking the group button the next screen opens: 'Device screen'.

9.2 Device screen – CGLine PC interface

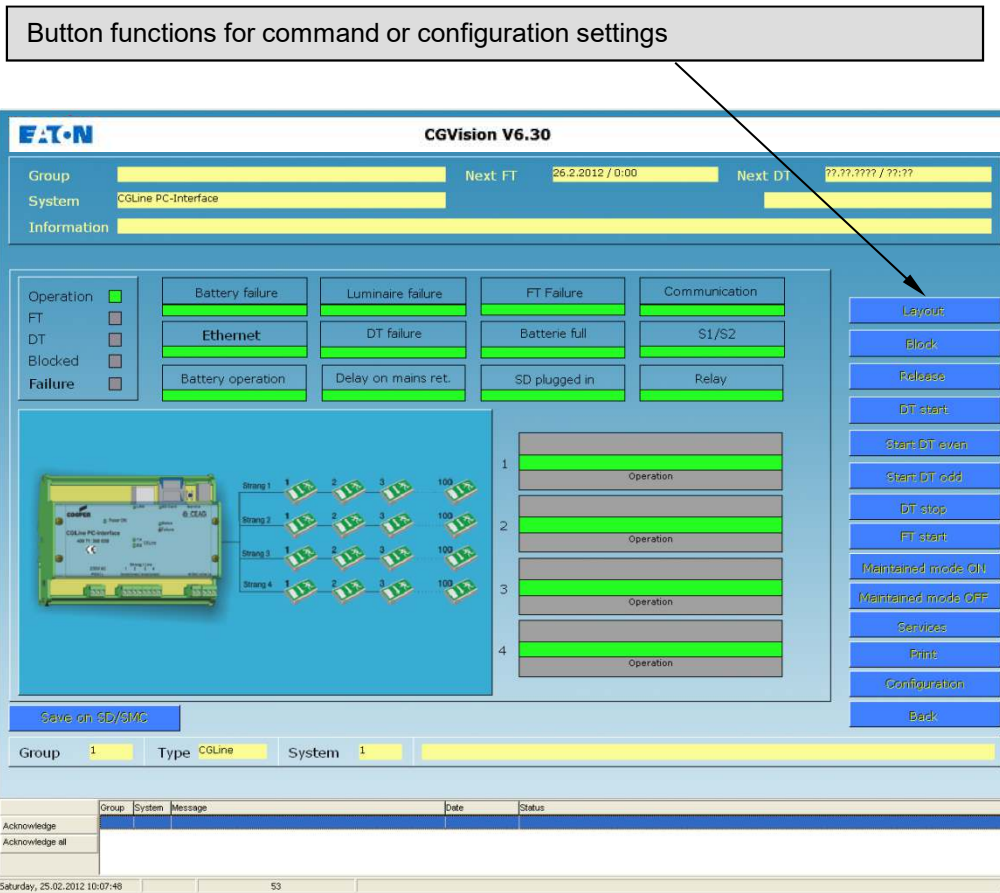
9.2.1 Structure of the device screen:

The screenshot displays the CGVision V6.30 interface. At the top, it shows the group name 'CGLine PC-Interface' and system name 'CGLine PC-Interface'. Below this, there are status indicators for Operation, FT, DT, Blocked, and Failure. A central area shows a diagram of four strings (Strang 1-4) with 100 luminaires each, and a table of their current status (Operation, DT failure, etc.). On the right, there are buttons for various commands like 'Layout', 'Block', 'Release', 'DT start', etc. At the bottom, there is an alarm list table with columns for Group, System, Message, Date, and Status.

Annotations and callouts:

- Group name and system name (up to 20 characters each)**: Points to the 'Group' and 'System' fields at the top.
- Field for supplementary information (up to 100 characters)**: Points to the 'Information' field below the system name.
- Display of next automatic FT / BT**: Points to the 'Next FT' and 'Next DT' fields, with a legend: FT = function test, BT = continuous battery operation test.
- Direct status messages of device**: Points to the status indicators (Operation, FT, DT, etc.) and the alarm list table.
- Buttons for commands or configuration settings**: Points to the vertical column of buttons on the right side.
- Installed lines, max. 4 pcs. each with max. 100 CGLine luminaires, with display of current status:**
 - Green = luminaires in line OK
 - Yellow = min. 1 luminaire in test
 - Red = min. 1 luminaire in the line is faulty
 - Grey field signifies 'line not installed'.
- Alarm list with confirmation option, identical to the main group screen**: Points to the table at the bottom of the interface.

9.2.2 Function buttons:



a). 'Layout'

Calling up of the first available layout for this device
(option must be authorised via a dongle, available separately.)

b). 'Block'

All luminaires at the CGLine interface are blocked

c). 'Release'

All luminaires at the CGLine interface are released

d). 'Start BT'

All luminaires at the CGLine interface start a BT (continuous operation test)

e). 'BT start straight'

All luminaires at the CGLine interface with an **even** luminaire address start a BT (continuous operation test)

f). 'BT start uneven'

All luminaires at the CGLine interface with an **uneven** luminaire address start a BT (continuous operation test)

g). 'Stop BT'

The BT for all luminaires at the CGLine interface is aborted

h). 'Start FT'

All luminaires at the CGLine interface start an FT (function test)

i). 'DL luminaires ON'

All luminaires at the interface (switched in maintained light → L bypassed with L') switch ON

j). 'DL luminaires OFF'

All luminaires at the interface (switched in maintained light → L bypassed with L') switch OFF

k). 'Services'

Various services for the inspection book and for configuration

l). 'Print'

A screenshot of the current screen is printed

m). 'Configuration'

Configuration settings for all data on the device screen

n). 'Back'

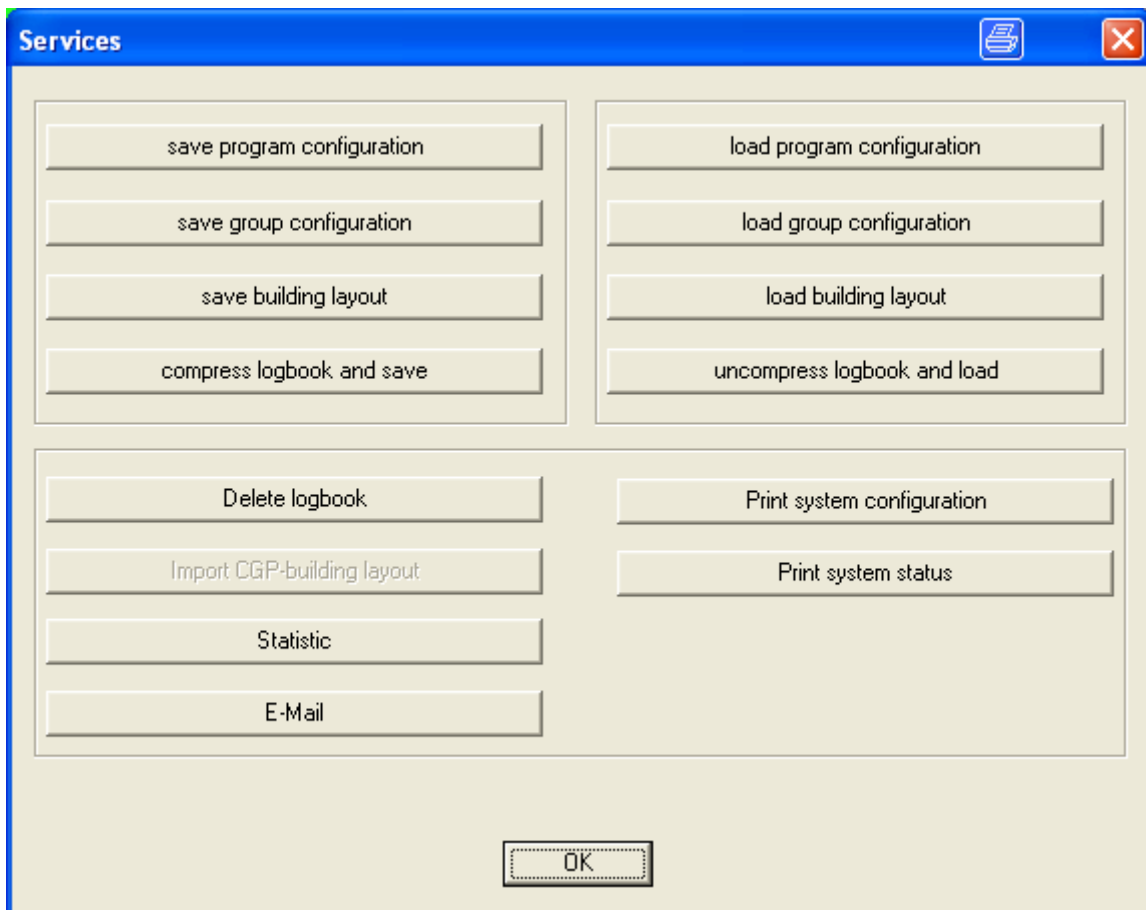
Return to main group screen

a). Calling up of the available layouts in this device group (option must be released, see the 'layout programming' section)

b). - j). Commands described previously (Points b-j) can be directly executed

k). 'Services'

Various services for the inspection book and for configuration



The 'Services' menu is identical with the 'Services' menu in the device group screen, apart from clicking on Status only relates to the device. You can find a detailed description for saving and opening of program configurations/group configurations in Section 2 "System group screen', j) 'Services'.

The 'Statistics' button creates a text file that lists the number of devices and the luminaires.

'E-Mail' enables the simple sending of mails to specific recipients with attachments such as inspection books.

m). 'Configuration' (device)

Entry of device name and supplementary information

Free configuration of the zero-potential relay contact

Specification of the next automatic continuous operation test, time and interval in months

If separate BT is active, firstly all luminaires with even addresses undergo a continuous operation test, and 24 hours later all luminaires with uneven addresses

Specification of the next automatic function test, time and interval in days

Via PC → CGLine400 or PC ← CGLine400, modifications from CGVision to the interface or from the interface to CGVision can be transferred.

With first commissioning:
The 'Find all luminaires' button enables all connected luminaires to be automatically found. The found luminaires are automatically sorted according to the HEX address ascending in the line with logical addresses from 1 to 100.
CAUTION: Previous logical address assignments are overwritten.

With expansions:
If an existing configuration is to be expanded with new luminaires it is recommended to only search for new luminaires.
'Find new luminaires' can be implemented for this purpose. Existing logical address assignments are maintained.

9.3 Line screen

By clicking a button the desired line level opens (line screen)

Installed lines are displayed by colour-highlighted buttons.
By clicking a button the desired line level opens (line screen)

The screenshot shows the EATON CGVision V6.30 interface. At the top, there is a header with the EATON logo and the title 'CGVision V6.30'. Below this, there are fields for 'Group', 'System', and 'Information'. The main area contains several status indicators and buttons. A red box highlights a vertical stack of four buttons, each labeled 'Operation', corresponding to Strang 1, 2, 3, and 4. A callout box points to this stack, stating that installed lines are displayed by colour-highlighted buttons and that clicking a button opens the line screen.

Group: [] Next FT: 26.2.2012 / 0:00 Next DT: ???.??.???? / ??:??

System: CGLine PC-Interface

Information: []

Operation: FT: DT: Blocked: Failure:

Battery failure, Luminaire failure, FT Failure, Communication, Ethernet, DT failure, Batterie full, S1/S2, Battery operation, Delay on mains ret., SD plugged in, Relay

Layout, Block, Release, DT start, Start DT even, Start DT odd, DT stop, FT start, Maintained mode ON, Maintained mode OFF, Services, Print, Configuration, Back

Save on SD/SMC

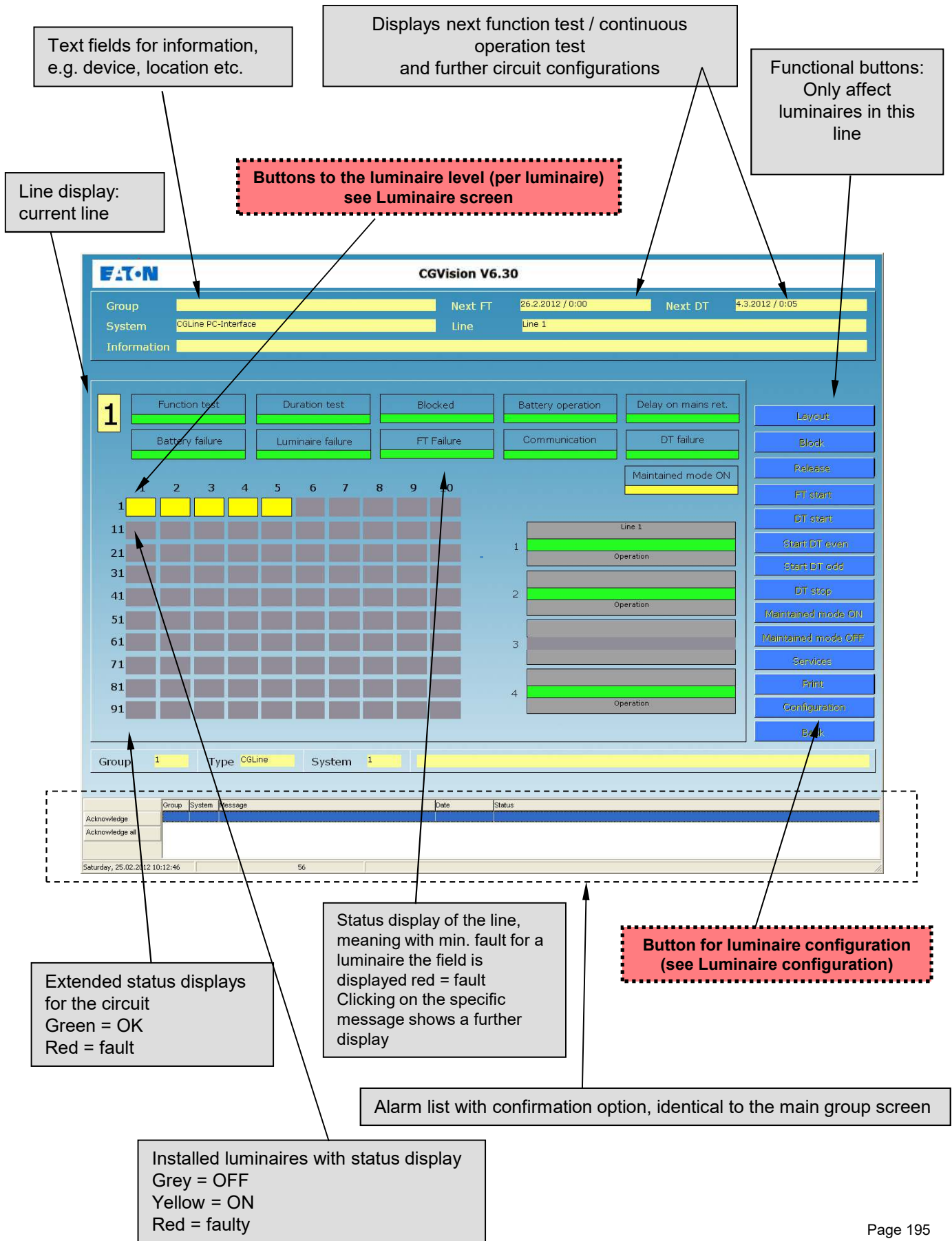
Group: 1 Type: CGLine System: 1

	Group	System	Message	Date	Status
Acknowledge					
Acknowledge all					

Saturday, 25.02.2012 10:07:48 53

9.3 Line screen

9.3.1 Structure of the line screen



9.3.2 Luminaire configuration

Luminaires, sorted ascendingly with logical addresses 1 - 100

Current line

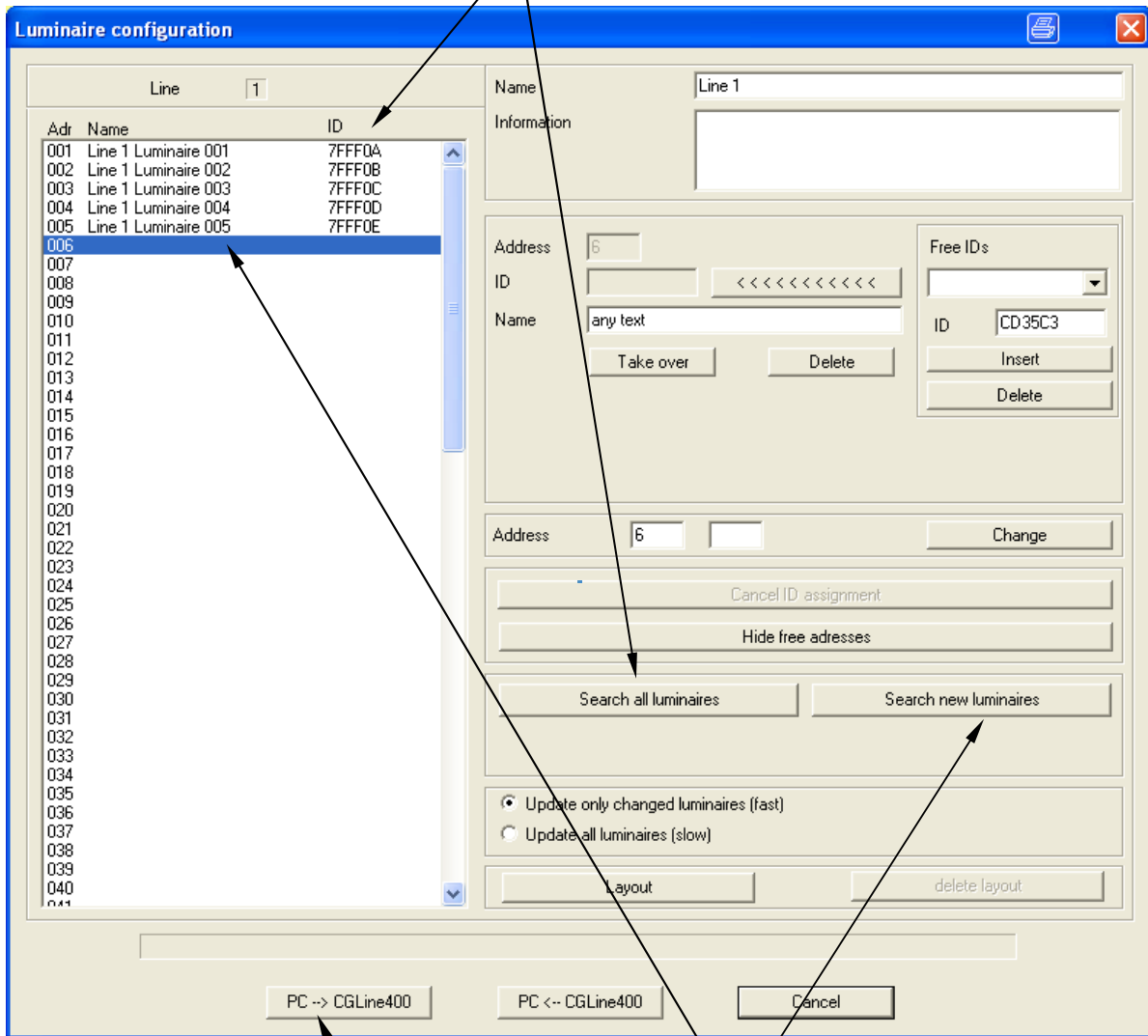
Name (max. 20 characters) and supplementary information (max. 100 characters) for the line

Adr	Name	ID
001	Line 1 Luminaire 001	7FFF0A
002	Line 1 Luminaire 002	7FFF0B
003	Line 1 Luminaire 003	7FFF0C
004	Line 1 Luminaire 004	7FFF0D
005	Line 1 Luminaire 005	7FFF0E
006		
007		
008		
009		
010		
011		
012		
013		
014		
015		
016		
017		
018		
019		
020		
021		
022		
023		
024		
025		
026		
027		
028		
029		
030		
031		
032		
033		
034		
035		
036		
037		
038		
039		
040		
041		

9.3.2 Luminaire configuration

9.3.2.2 Automatic luminaire configuration

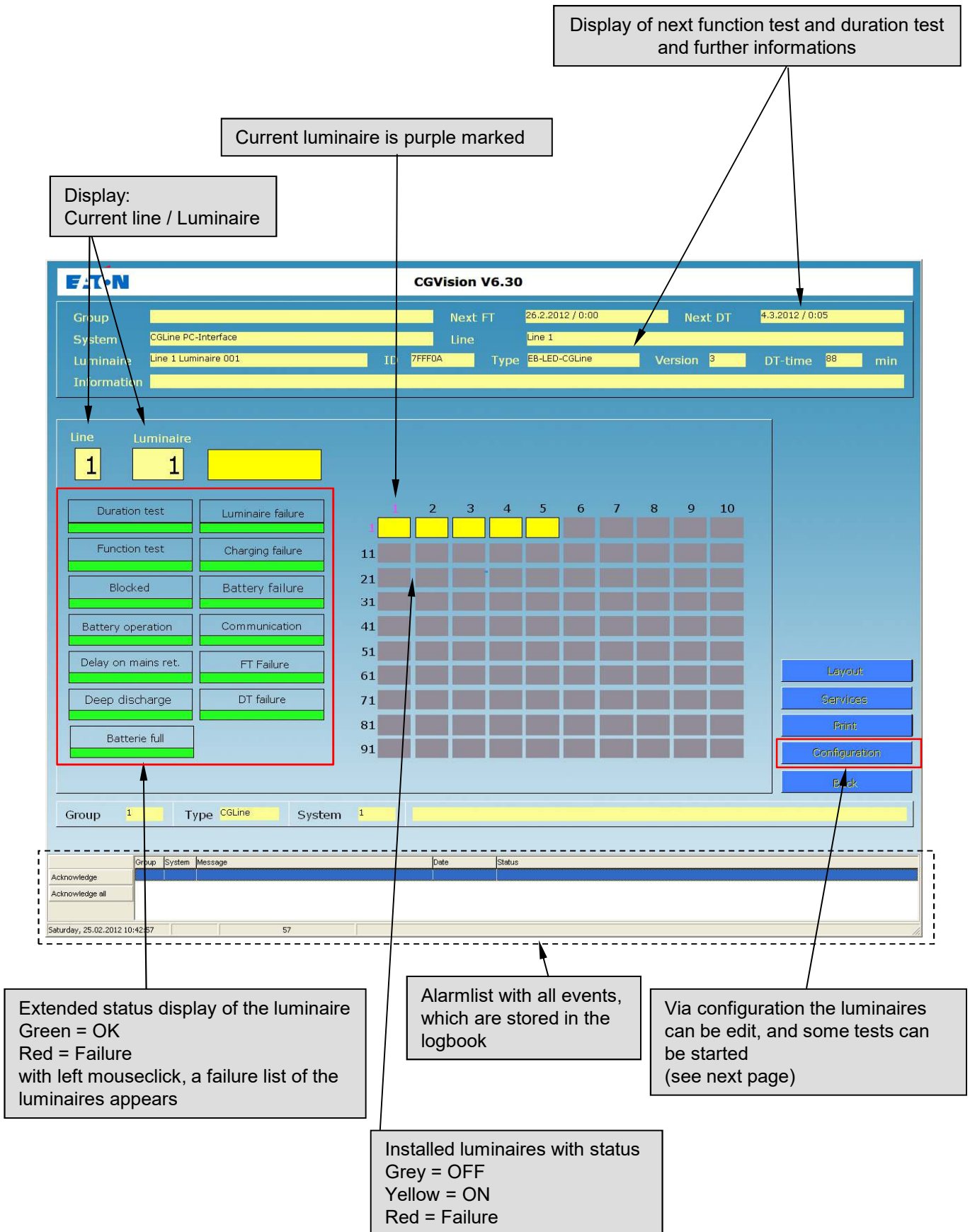
Via „Search all luminaires“, all luminaire in the line will be searched automatic, and logical assigned to logical address from 1 – 100
Attention: all old configurations will be overwrite !



to finish this menu, press „PC → CGLine400“
All changes will be transfered to the interface,
which can last some minutes

Via „Search new luminaires“, only new
luminaires will be added in the list. All
stored configurations will be kept.

9.3.3 Structure of the luminaire picture



Input of Luminaire name (max. 20 characters) and additional information (max.100 characters)

Luminaire configuration

Line: 1

Luminaire: 1 7FFF0A

Name: Test luminaire LED

Information:

Control

< >

PC --> CGLine400 PC <-- CGLine400 Cancel

With Click on „Control“, a new window appears

Control

FT start

DT start DT stop

OK

A Function Test or a Duration Test of the luminaire can be started or interrupted

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400 71 347 387(M) – Section 9 12/12/18/ CE
-Technical alterations without notice!-

Installation and operating instructions
Visualisation and monitoring software
CGVision and CEAG OPC server

For the monitoring and control of
CEAG emergency lighting systems

CGVision from V6.30

400 71 347 387 (M)



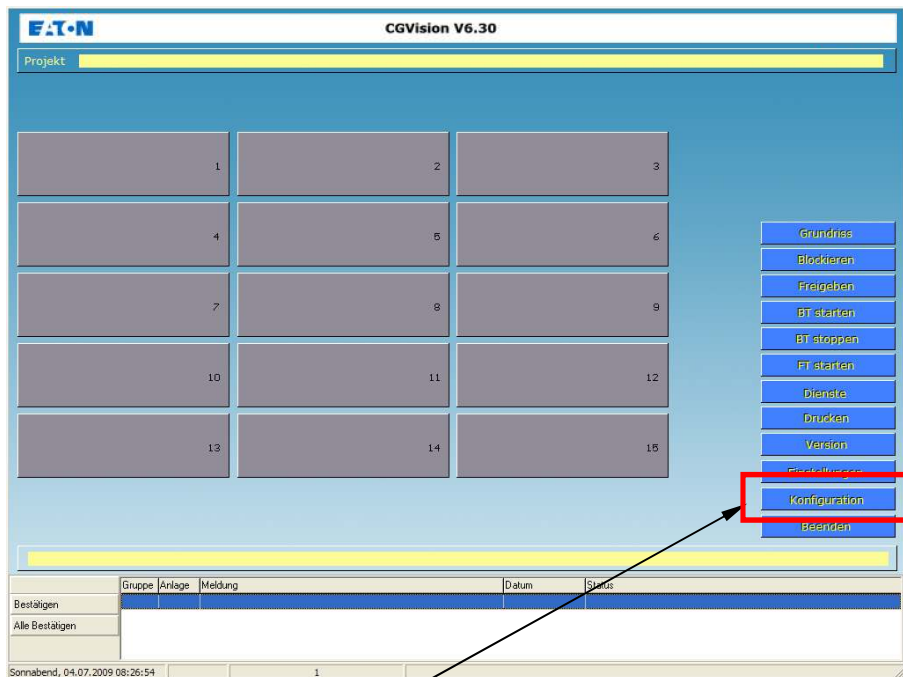
Section 10
Device family ZB96/EuroZB.1

10 Device family ZB96 / EURO ZB.1

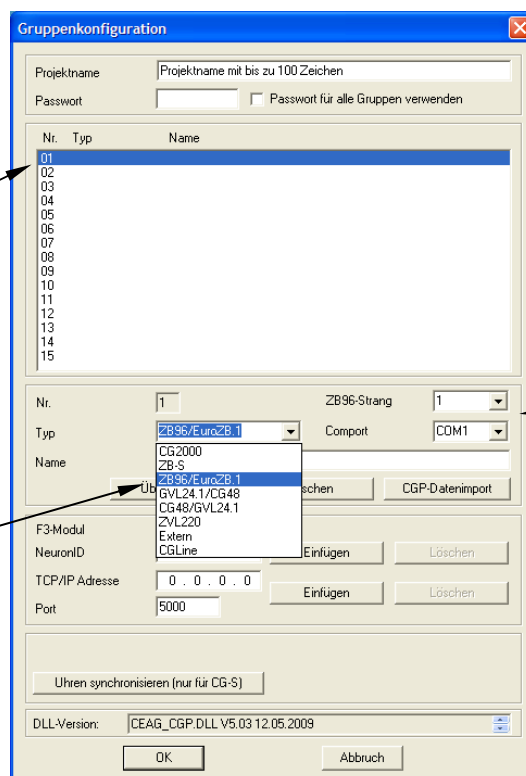
10.1. Configuring a ZB 96 / Euro ZB.1 EGA line

10.1.1 Creating a ZB96 system group:

Note: When entering a ZB96 or Euro ZB.1 group the EGA line assignment must be observed. It is possible to connect up to 8 EGA lines each with max. 32 systems to the CGVision. Connection of the EGA lines is via the serial interface (COM ports) of the PC. One COM port is required for each EGA line.



Via the 'Configuration' menu a new device family, e.g. ZB96 or Euro ZB.1 can be created



The group configuration menu then appears:

a) In the group selection window a system group can be defined by selecting the corresponding group number (marked blue)

b) In the 'Type' drop-down menu the system type 'ZB96/EuroZB.1' can be selected and a system group name can be assigned

c) The assignment of an EGA line to a COM port is carried out via the drop-down menus 'ZB96 line' and 'COM port'.

d) Confirm with 'Accept', define further groups or exit with 'OK'

Gruppenkonfiguration

Projektname:

Passwort: Passwort für alle Gruppen verwenden

Nr.	Typ	Name
01		
02		
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		
13		
14		
15		

Nr.: ZB96-Strang:

Typ: Comport:

Name:

F3-Modul

NeuronID:

TCP/IP Adresse:

Port:

DLL-Version:

Specification of the EGA line:
 In the 'ZB-96 line' drop-down menu an EGA line 1 to 8 can be specified.

Gruppenkonfiguration

Projektname:

Passwort: Passwort für alle Gruppen verwenden

Nr.	Typ	Name
01		
02		
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		
13		
14		
15		

Nr.: ZB96-Strang:

Typ: Comport:

Name:

F3-Modul

NeuronID:

TCP/IP Adresse:

Port:

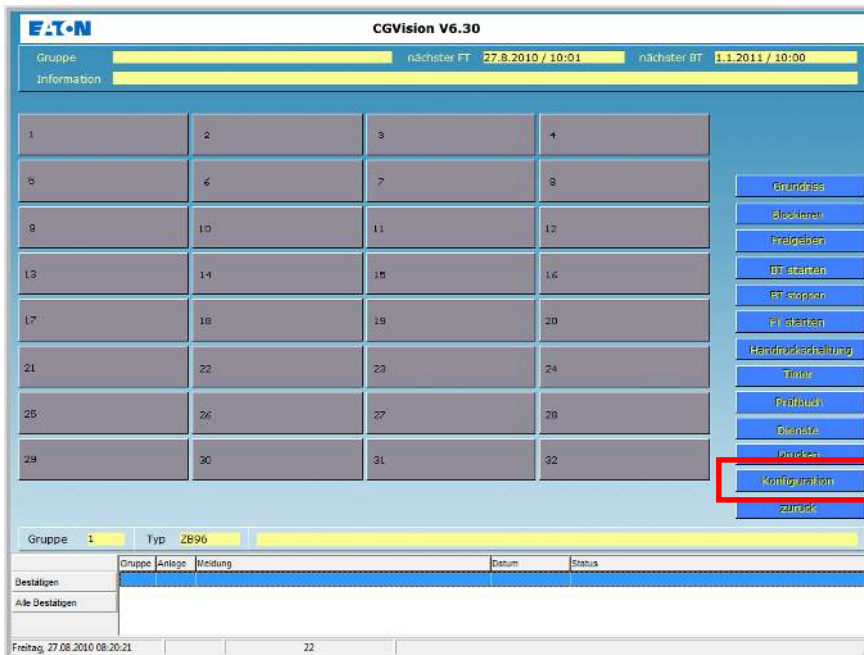
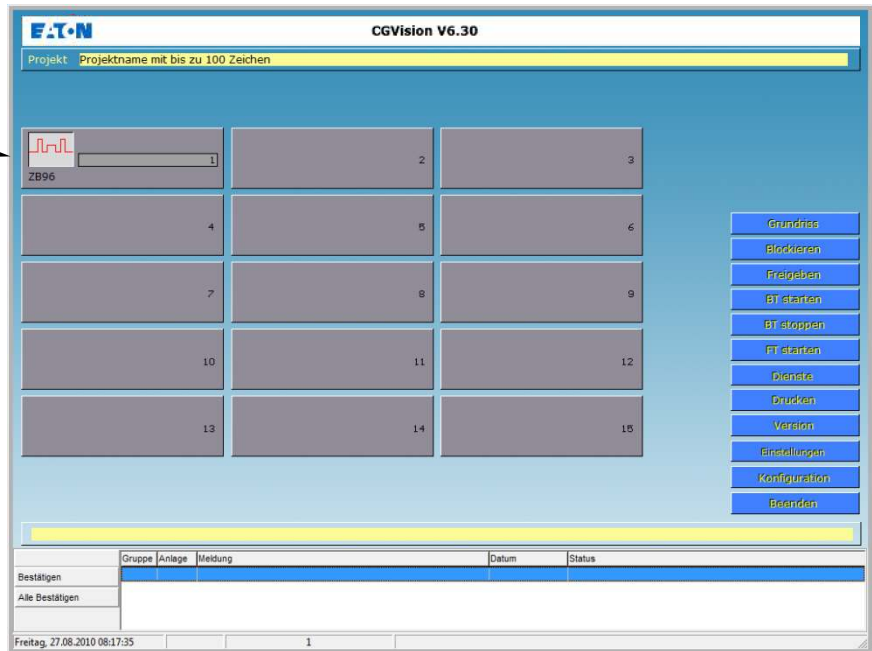
DLL-Version:

Assigning the COM port:
 After entering the EGA line this can be assigned to a COM port (1 to 255) via the drop-down menu.

Accepting creates the device group, and in this way further device groups can be created.
 All modifications are saved with OK, and if necessary the program must be restarted.

10.1.2 Creating a ZB96 device:

After restarting the ZB96 device group is displayed on the main group screen. Clicking on the ZB96 device group displays the system group screen.



Now ZB96 devices can be added to this group via 'Configuration'.

In the 'Configuration group' menu, systems can be added by selecting the device address 1 to 32 of the line and system type ZB96 or Euro ZB.1. All modifications are saved with OK, and the program restarts.

After restarting, all installed ZB96/EuroZB.1 are shown in the main group screen with their system status. Clicking on the button directly displays the device screen.

10.2 CGP data import – ZB96

When replacing an existing CGP it is possible to import the ZB96 configuration files of the CGP into CGVision. A CGP data import is only possible for groups not configured in CGVision, meaning the group must contain no systems before a CGP data import.

Gruppenkonfiguration

Projektname:

Passwort: Passwort für alle Gruppen verwenden

Nr.	Typ	Name
01	ZB96/EuroZB.1	
02		
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		
13		
14		
15		

Nr.: ZB96-Strang:

Typ: Comport:

Name:

Übernehmen Löschen **CGP-Datenimport**

F3-Modul

NeuronID: Einfügen Löschen

TCP/IP Adresse: Einfügen Löschen

Port:

Uhren synchronisieren (nur für CG-S)

DLL-Version:

OK Abbruch

Before a CGP data import, the line and the COM port need to be specified. This must be confirmed with 'Accept'.
CGP data import is started via the 'CGP data import' button.

CGP-Datenimport

Verzeichnis CGP-Daten: ...

Verzeichnis:

Typ:

Gruppennummer: (1 - 15)

Gruppenname:

Strang: (1 - 8)

Comport: (COM1 - COM255)

Start Ende

The following window opens. Here the folder for the CGP configuration data can be specified. Typically as the default source the disk drive A: is specified, used as standard with the CGP for data backups. The CGP data import is triggered with 'Start'. Please follow the following dialog boxes and information.

10.3 'Device screen – ZB96'

10.3.1 Structure of the device screen:

The screenshot shows the CGVision V6.30 interface for a ZB96 device. At the top, there are fields for 'Gruppe' (Group) and 'Anlage' (Plant), both containing yellow bars. To the right, it displays 'nächster FT' (next function test) as 19.7.2009 / 10:01 and 'nächster BT' (next battery test) as 1.8.2009 / 10:00. Below this, 'Anlage' is set to 1, 'Handrückschaltung' (manual reset) is 'Nein', and 'Nachlaufzeit' (run time) is 0 min. An 'Information' field contains 'Zusatzinformationen mit max. 100 Zeichen'.

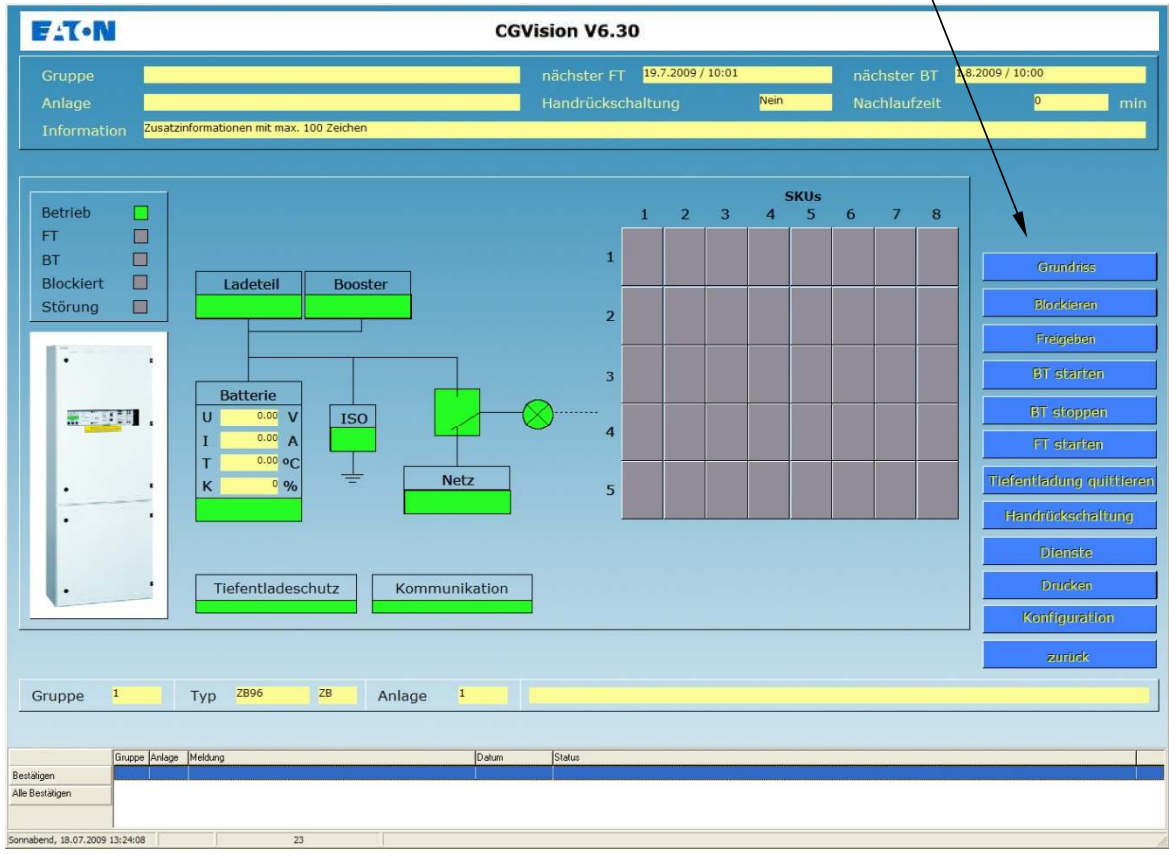
The main area features a status panel on the left with indicators for 'Betrieb' (green), 'FT', 'BT', 'Blockiert', and 'Störung'. A central schematic diagram shows components like 'Ladeteil', 'Booster', 'Batterie' (with U, I, T, K values), 'ISO', 'Netz', 'Tiefentladeschutz', and 'Kommunikation'. To the right is a table for 'SKUs' (1-8) with a grid of grey cells. A vertical menu on the right includes buttons for 'Grundries', 'Blockieren', 'Freigeben', 'BT starten', 'BT stoppen', 'FT starten', 'Tiefentladung quittieren', 'Handrückschaltung', 'Diagnose', 'Drucken', 'Konfiguration', and 'zurück'.

At the bottom, a status bar shows 'Gruppe 1', 'Typ ZB96', 'ZB', and 'Anlage 1'. Below this is an 'Alarm list' table with columns for 'Gruppe', 'Anlage', 'Meldung', 'Datum', and 'Status'. The table shows one entry: 'Sonnabend, 18.07.2009 23:24:08' with a status of '23'. A 'Bestätigen' (confirm) button is next to it.

Callouts explain:

- 'Group name and system name (up to 20 characters each)' points to the 'Gruppe' and 'Anlage' fields.
- 'Field for supplementary information (up to 100 characters)' points to the 'Information' field.
- 'Displays next function test / continuous operation test' points to the 'nächster FT' and 'nächster BT' fields.
- 'Direct status messages of device' points to the status indicators on the left.
- 'Button for commands or configuration settings' points to the vertical menu on the right.
- 'Installed circuit change-over modules on max. 5 module supports. Grey field signifies 'not installed'. To display installed circuit change-over modules, these must first be opened with the 'Configuration' menu via the 'PC ← ZB96' button.' points to the SKU table.
- 'Alarm list with confirmation option, identical to the main group screen' points to the alarm list table.

Button functions for command or configuration settings



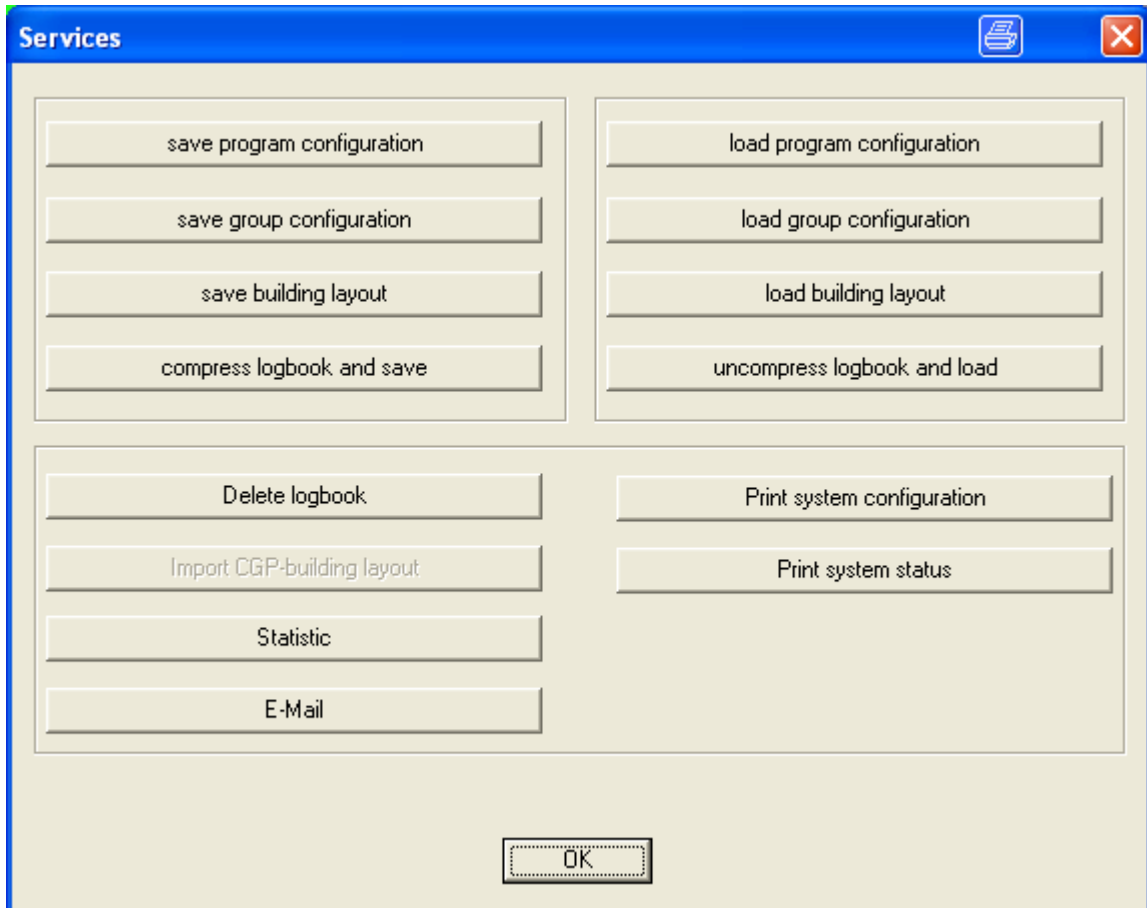
- a). 'Layout'
Calling up of the first available luminaire layout of the device
(option must be authorised via a dongle, available separately.)
- b). 'Block'
This blocks the device
- c). 'Release'
The blocked device is released
- d). 'Start BT'
A BT test (continuous operation test) is carried out for the device.
- e). 'Stop BT'
BT test is aborted for the device.
- f). 'Start FT'
An FT test (function test) is carried out for the device.
- g). 'Confirm total discharge protection'
Confirmation of a total discharge protection
- h). 'Manual resetting'
This enables the device responding to manual resetting to be reset.
- i). 'Services'
Various services for the inspection book and for configuration
- j). 'Print'
A screenshot of the screen is printed
- k). 'Configuration'
Configuration settings for all data on the device screen
- l). 'Back'
Return to system group screen

a). Calling up of the available layouts in this system group
(option must be released, see the 'layout programming' section)

b). - h). Commands described previously (Points b-g) can be directly executed

i). 'Services'

Various services for the inspection book and for configuration



The 'Services' menu is identical with the 'Services' menu in the system group screen, apart from clicking on Status only relates to the system.

You can find a detailed description for saving and opening of program configurations/group configurations in Section "System group screen", i) 'Services'.

k. 'Configuration of system' (device)

a). General

Entry of device name and supplementary information

The screenshot shows a software window titled "Konfiguration Anlage (Gruppe 01 / Anlage 01 / ZB96)". The window contains several configuration fields:

- Name:** A text input field with a label "max. 20 Zeichen".
- Information:** A larger text input field with a label "Zusatzinformationen mit max. 100 Zeichen".
- Handrückschaltung:** A checkbox that is currently unchecked.
- Nachlaufzeit:** A dropdown menu showing "0" followed by "min".
- TLS-Zeiten:** A dropdown menu showing "Eingang 1: 0" followed by a left arrow, a dropdown menu showing "0", and "min".
- Installierte SKU:** A dropdown menu showing "SKU 1/1:" followed by a left arrow and another dropdown menu.
- Ladeteil:** A checked checkbox.
- Kapazität:** A dropdown menu showing "24" followed by "Ah" and "(5 - 999)".
- Anzahl Booster:** A dropdown menu showing "1" followed by "(0 - 10)".
- Information Batterietyp:** A text input field with a label "Feld für Batterieinformationen , max. 100 Zeichen".
- Information Batterie allgemein:** A text input field with a label "weitere Batterie-Zusatzinformationen, max.. 100 Zeichen".
- Angeschlossene US:** A dropdown menu.

At the bottom of the window, there are three buttons: "PC -> ZB96", "PC <- ZB96", and "Abbruch".

With the 'PC → ZB96' button, all modified settings can be sent to the device.
With the 'PC ← ZB96' button, the current configurations in the device can be downloaded to the PC.

k. 'Configuration of system' (device)

b). Manual resetting and emergency light delay period

Activate/deactivate manual resetting

Drop-down menu for entering the emergency light delay period from 1 to 15 minutes

Konfiguration Anlage (Gruppe 01 / Anlage 01 / ZB96)

Name: max. 20 Zeichen

Information: Zusatzinformationen mit max. 100 Zeichen

Handrückschaltung:

Nachlaufzeit: 0 min

TLS-Zeiten: 0 min

Installierte SKU: <- <-

Ladeteil

Kapazität: Ah (5 - 999)

Anzahl Booster: (0 - 10)

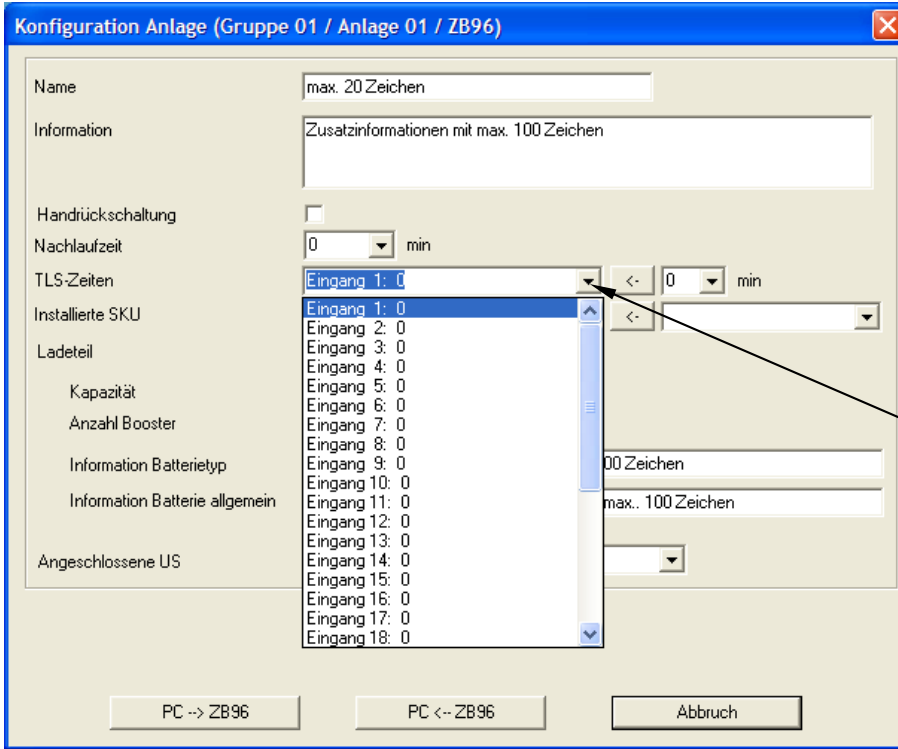
Information Batterietyp: Batterieinformationen, max. 100 Zeichen

Information Batterie allgemein: Batterie-Zusatzinformationen, max. 100 Zeichen

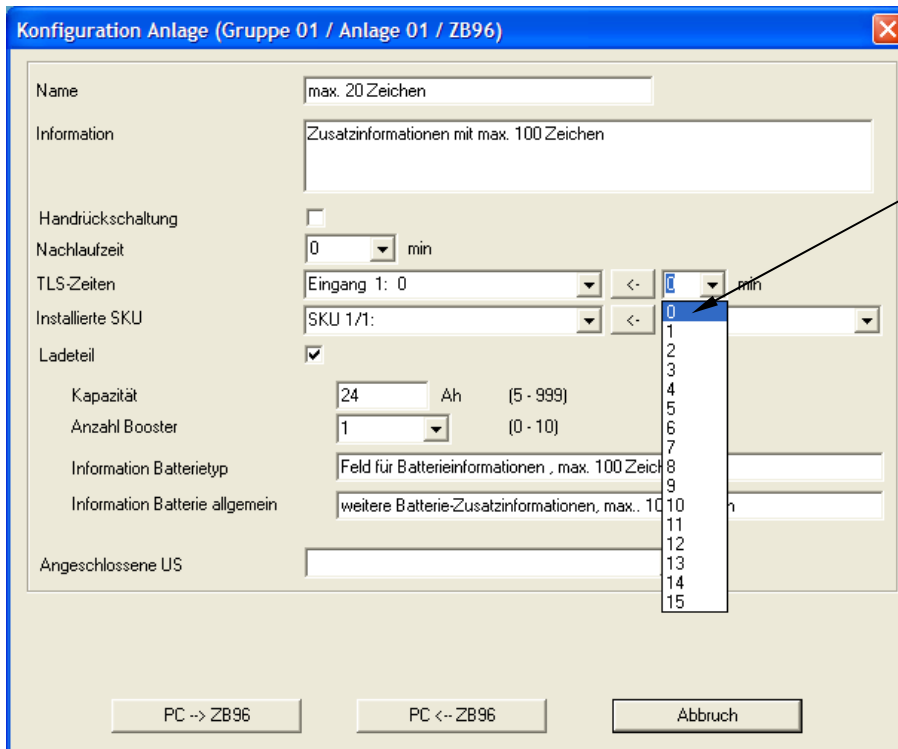
Angeschlossene US: <-

PC --> ZB96 PC <-- ZB96 Abbruch

k. 'Configuration of system' (device)
c). TLS times



With installed TLS modules (max. 4), inputs from 1 to 32 can be selected via the 'TLS times' drop-down menu.



After selecting the TLS input, a time from 0 to 15 minutes can be set via the 'min' menu. With the <- button the time is transferred to the TLS input.

k. 'Configuration of system' (device)

d). Further settings

If a charger exists, battery capacity, number of charging boosters and further information (e.g. date) about the battery can be entered.

The screenshot shows a software window titled 'Konfiguration Anlage (Gruppe 01 / Anlage 01 / ZB96)'. The window contains several configuration fields:

- Name:** max. 20 Zeichen
- Information:** Zusatzinformationen mit max. 100 Zeichen
- Handrückschaltung:**
- Nachlaufzeit:** 0 min
- TLS-Zeiten:** Eingang 1: 0 min
- Installierte SKU:** SKU 1/1:
- Ladeteil:**
- Kapazität:** 24 Ah (5 - 999)
- Anzahl Booster:** 1 (0 - 10)
- Information Batterietyp:** Feld für Batterieinformationen, max. 100 Zeichen
- Information Batterie allgemein:** weitere Batterie-Zusatzinformationen, max.. 100 Zeichen
- Angeschlossene US:** (empty dropdown)

At the bottom of the window, there are three buttons: 'PC --> ZB96', 'PC <-- ZB96', and 'Abbruch'.

When substations are connected to a ZB96 with battery and charging technology it is necessary to assign these to the ZB96 in order to carry out a common continuous operation test. The assignment can only be implemented from one substation, i.e. one substation in their system configuration can be assigned to a ZB96 (see next page). The connected substations can be displayed with the ZB96 in the 'Connected substations' menu.

k. 'Configuration of system' (device)
e) Assigning a substation to a ZB96/Euro ZB.1

Konfiguration Anlage (Gruppe 01 / Anlage 01 / ZB96)

Name max. 20 Zeichen

Information Zusatzinformationen mit max. 100 Zeichen

Handrückschaltung

Nachlaufzeit 0 min

TLS-Zeiten Eingang 1: 0 min

Installierte SKU SKU 1/1:

Ladeteil

Kapazität 24 Ah (5 - 999)

Anzahl Booster 1 (0 - 10)

Information Batterietyp Feld für Batterieinformationen , max. 100 Zeichen

Information Batterie allgemein weitere Batterie-Zusatzinformationen, max.. 100 Zeichen

ZB-Zuordnung i-

PC --> ZB96 PC <-- ZB96 Abbruch

If a substation (no charger installed) is configured, then this must be assigned to a central battery system for a common continuous operation test. This is carried out via the 'ZB assignment' drop-down menu of the substation.

10.4 Circuit change-over module screen

Installed circuit change-over modules are displayed by colour-highlighted buttons. By clicking a button the corresponding circuit change-over module level opens

The screenshot displays the Eaton CGVision V6.30 interface. At the top, it shows system information: 'Gruppe' (empty), 'Anlage' (empty), 'Information' (Zusatzinformationen mit max. 100 Zeichen), 'nächster FT' (19.7.2009 / 10:01), 'nächster BT' (1.8.2009 / 10:00), 'Handrückschaltung' (Nein), and 'Nachlaufzeit' (0 min).

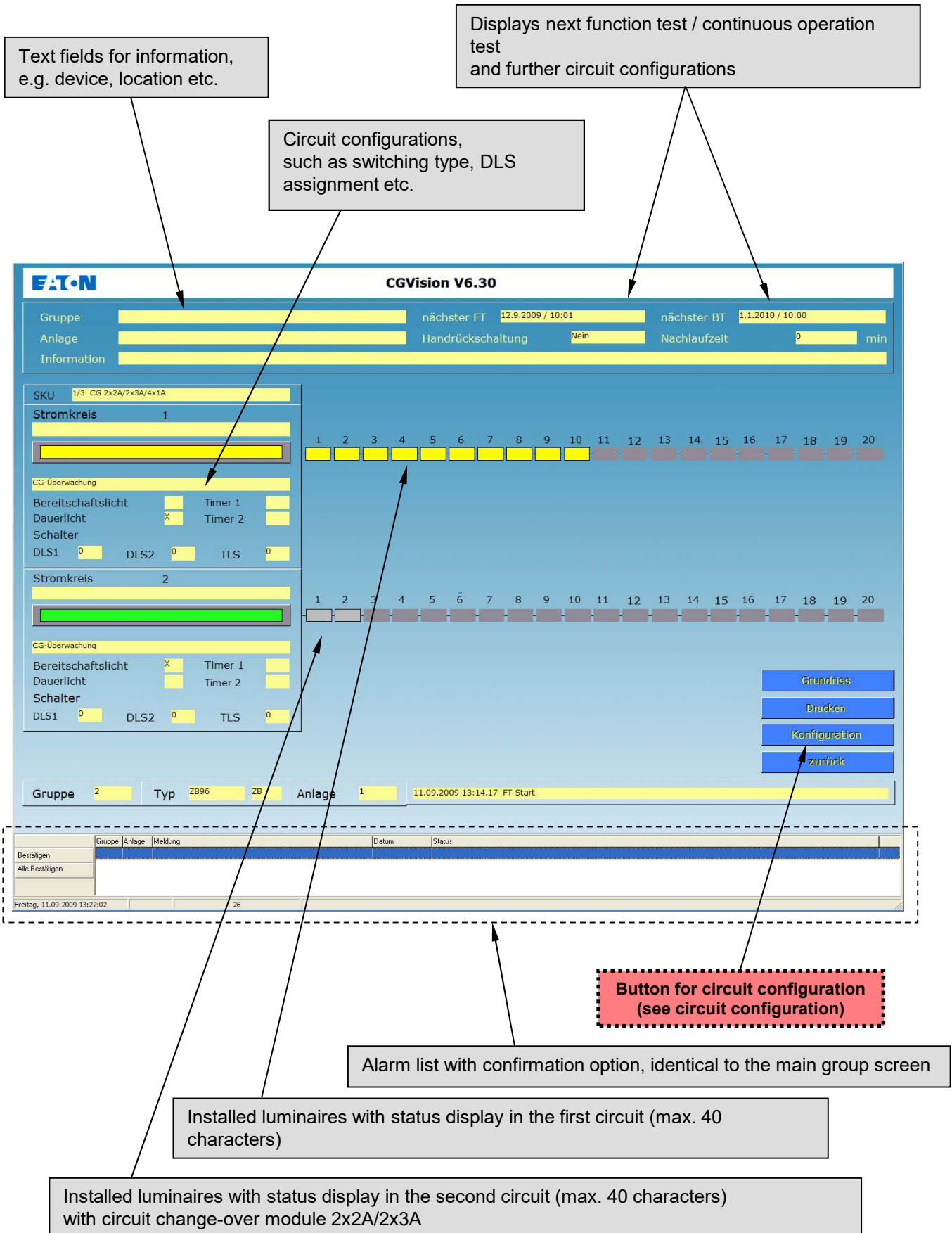
The main area features a circuit diagram on the left with components: Ladeteil, Booster, Batterie (U: 0.00 V, I: 0.00 A, T: 0.00 °C, K: 0 %), ISO, and Netz. Below the diagram are 'Tiefentladeschutz' and 'Kommunikation' buttons. On the right is a table of SKUs (SKU CG) for 8 modules across 5 rows. The buttons for SKUs 1-4 in row 1 are highlighted in green. A callout box points to the green button at row 1, column 4.

On the far right, a vertical stack of control buttons includes: Grundriss, Blockieren, Freigeben, BT starten, BT stoppen, FT starten, Tiefentladung quittieren, Handrückschaltung, Dienste, Drucken, Konfiguration, and zurück.

At the bottom, there is a status bar with 'Gruppe 1', 'Typ ZB96 ZB', and 'Anlage 1'. Below this is a table with columns: Gruppe, Anlage, Meldung, Datum, Status. The table contains two rows: 'Bestätigen' and 'Alle Bestätigen'. The footer shows 'Sonnabend, 18.07.2009 13:16:46' and '23'.

10.4 Circuit change-over module screen

10.4.1 Structure of the circuit change-over module screen



10.4.2 Circuit configuration

The screenshot shows the 'SKU-Konfiguration (Gruppe 02 / Anlage 01)' window. At the top, there are fields for 'SKU' (1/3), 'Stromkreis' (1), and 'SKU-Typ' (SKU CG 2x2A/2x3A/4x1A). The main area is divided into several sections:

- Name:** A text field with a 'max. 40 Zeichen' limit.
- Information:** A larger text field for 'Zusatzinformationen mit max. 100 Zeichen'.
- Monitoring Type:** Radio buttons for 'CG-Überwachung' (checked), 'Bereitschaftslicht', 'Dauerlicht', and 'Schalter'. Below are 'Timer 1', 'Timer 2', 'DLS1', 'DLS2', and 'TLS' with checkboxes and dropdown menus.
- Leuchten (Luminaires):** A list of 20 items, each with a checkbox and a text field. Items 1-10 are checked and contain specific luminaire models (e.g., SL 22011 CG-S, RZ 55011 CG-S PU, RZ 55011 CG-S PR, RZ 55011 CG-S PL, RZ 55011 CG-S PR). Items 11-20 are unchecked and contain generic text like 'SKU1/3 CIR1 LUM11' through 'LUM20'.
- Information Leuchte:** A section with left and right arrow buttons and a central field for entering additional information.
- Instal. Leistung:** Fields for power in VA and W.
- Buttons:** 'Grundriss', 'FC --> ZB96', 'Abbruch', and navigation arrows.

Callout boxes provide the following explanations:

- Specification of the monitoring type:** Points to the radio button selection for 'CG-Überwachung'.
- Input of circuit name and supplementary information:** Points to the 'Name' and 'Information' text fields.
- Display of circuit change-over module, circuit and circuit change-over module type:** Points to the 'SKU-Typ' field and the 'Leuchten' list.
- Circuit programming such as Switching type and DLS/TLS assignment:** Points to the radio buttons and timer/DLS/TLS settings.
- Adding/removing luminaires via checking of control boxes. After adding luminaires, luminaire texts in plain text, max. 40 characters can be entered:** Points to the checkboxes and text fields in the 'Leuchten' list.
- It is possible to enter additional information about the luminaire to 100 characters, e.g. for mounting type. Selection of luminaire texts is via arrow left / arrow right:** Points to the 'Information Leuchte' section.

After circuit configuration, the circuit screen with text information can be opened by clicking on the button for the circuit or luminaire.

EATON CGVision V6.30

Gruppe: _____ nächster FT: 25.11.2004 / 10:01 nächster BT: 1.12.2004 / 10:00
 Anlage: _____ Handrückschaltung: Nein Nachlaufzeit: 0 min
 Information: _____

SKU: 2/5 CG 2x2A/2x3A/4x1A

Stromkreis 1

CG-Überwachung
 Bereitschaftslicht: Timer 1:
 Dauerlicht: Timer 2:
 Schalter: DLS1: 1 DLS2: 0 TLS: 0

Stromkreis 2

CG-Überwachung
 Bereitschaftslicht: Timer 1:
 Dauerlicht: Timer 2:
 Schalter: DLS1: 2 DLS2: 0 TLS: 0

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Drucken
 Konfiguration
 zurück

Gruppe: 1 Typ: ZB96 ZB Anlage: 1 24.11.2004 13:04:09 FT-Start

	Gruppe	Anlage	Meldung	Datum	Status
Bestätigen					
Alle Bestätigen					

Mittwoch, 24.11.2004 13:07:08 23

10.5 Circuit screen

10.5.1 Structure of the circuit screen

Text fields for information, e.g. device, location etc.

Displays next function test / continuous operation test and further circuit configurations

Installed luminaires with status display:
 Grey = switched off (NOMINAL status)
 Yellow = switched on (NOMINAL status)
 Red = luminaire faulty

Gruppe	Anlage	Meldung	Datum	Status
Bestätigen	2	2011.09.09 14:02:30 FT lauft	11.09.09 14:02:30	Ein
Alle Bestätigen	2	1	11.09.09 14:02:30	Aus
	2	1	11.09.09 14:02:30	Aus
	2	1	11.09.09 14:02:00	Ein

Alarm list with confirmation option, identical to the main group screen

Luminaire texts

10.5.2 Extended luminaire text display

By clicking on the luminaire text, further luminaire texts can be called up that were entered in „Circuit configuration“ under 'Luminaire information'.

The screenshot shows the CGVision V6.30 software interface. At the top, there are fields for 'Gruppe', 'Anlage', 'Stromkreis', and 'Information'. Below this is a list of luminaires with columns for 'Name' and 'Status'. A pop-up window titled 'Hinweis' (Warning) is displayed, showing detailed information for 'Leuchte 1' (Luminaire 1): 'SL 22011 CG-S mit 8Watt/T5 Leuchtmittel, Montagehöhe 5m! Leiter notwendig!' (SL 22011 CG-S with 8Watt/T5 luminaire, mounting height 5m! Conductor necessary!). The interface also includes buttons for 'Überlast', 'Grundriss', 'Drucken', and 'zurück'.

Name	Status
1 SL 22011 CG-S	
2 RZ 55011 CG-S-PU	
3 SL 22011 CG-S	
4 SL 22011 CG-S	
5 RZ 55011 CG-S-PR	
6 RZ 55011 CG-S-PU	
7 SL 22011 CG-S	
17	Nicht installiert!
18	Nicht installiert!
19	Nicht installiert!
20	Nicht installiert!

Gruppe	Anlage	Meldung	Datum	Status
2	1	FT läuft	11.09.09 14:02:30	Aus
2	1	Stromerhöht	11.09.09 14:02:30	Aus
2	1	Notförsäung	11.09.09 14:02:00	Ein

Expanded luminaire texts, e.g. with specification of mounting height. Luminaire type, order number etc. Note: With a faulty luminaire this text is also printed out in the fault printout.

10.6 General display options

The status of devices or components is displayed in colour in all screens.

- Green signifies 'OK'
- Red signifies 'fault' in the affected area
- Yellow signifies 'switched on', e.g. circuit is switched on.
- Grey signifies 'switched off', e.g. luminaire is switched off 'standby light'

Examples:

The screenshot shows the main interface of CGVision V6.30. At the top, it displays system information: 'Gruppe 2', 'Anlage 1', 'nächster FT 12.9.2009 / 10:01', 'nächster BT 11.1.2010 / 10:00', and 'Handrückschaltung Nein'. Below this is a control panel with buttons for 'Grundriss', 'Blockieren', 'Freigeben', 'BT starten', 'BT stoppen', 'FT starten', 'Tiefentladung aullifern', 'Handrückschaltung', 'Dienstre', 'Drucken', 'Konfiguration', and 'zurück'. A central grid shows the status of 20 SKUs (rows 1-5, columns 1-8). Callouts indicate: 'Fault in circuit change-over module No. 1/3 (red)', 'Circuit change-over module No. 1/5 and No. 1/6 O.K. (green)', and 'Luminaire fault (red)'. A table at the bottom shows an alarm list with columns for 'Gruppe', 'Anlage', 'Meldung', 'Datum', and 'Status'.

Circuit No.1: maintained light - luminaires displayed yellow

Fault display in plain text in alarm list (red)

Circuit No.1: faulty - luminaire No.: 2,3 and 5 faulty (red)

This screenshot shows a detailed view of two circuit configurations. 'Stromkreis 1' shows a row of 20 luminaires, with callouts indicating 'Circuit No.1: maintained light - luminaires displayed yellow' and 'Circuit No.1: faulty - luminaire No.: 2,3 and 5 faulty (red)'. 'Stromkreis 2' shows a similar row of 20 luminaires, with a callout indicating 'Circuit No.2: OK and in standby light - luminaires displayed grey'. The interface includes control options for 'Bereitschaftslicht', 'Dauerlicht', 'Schalter', 'DLS1', 'DLS2', and 'TLS'. An alarm list at the bottom shows a 'FT fault' message.

Circuit No.2: OK and in standby light - luminaires displayed grey

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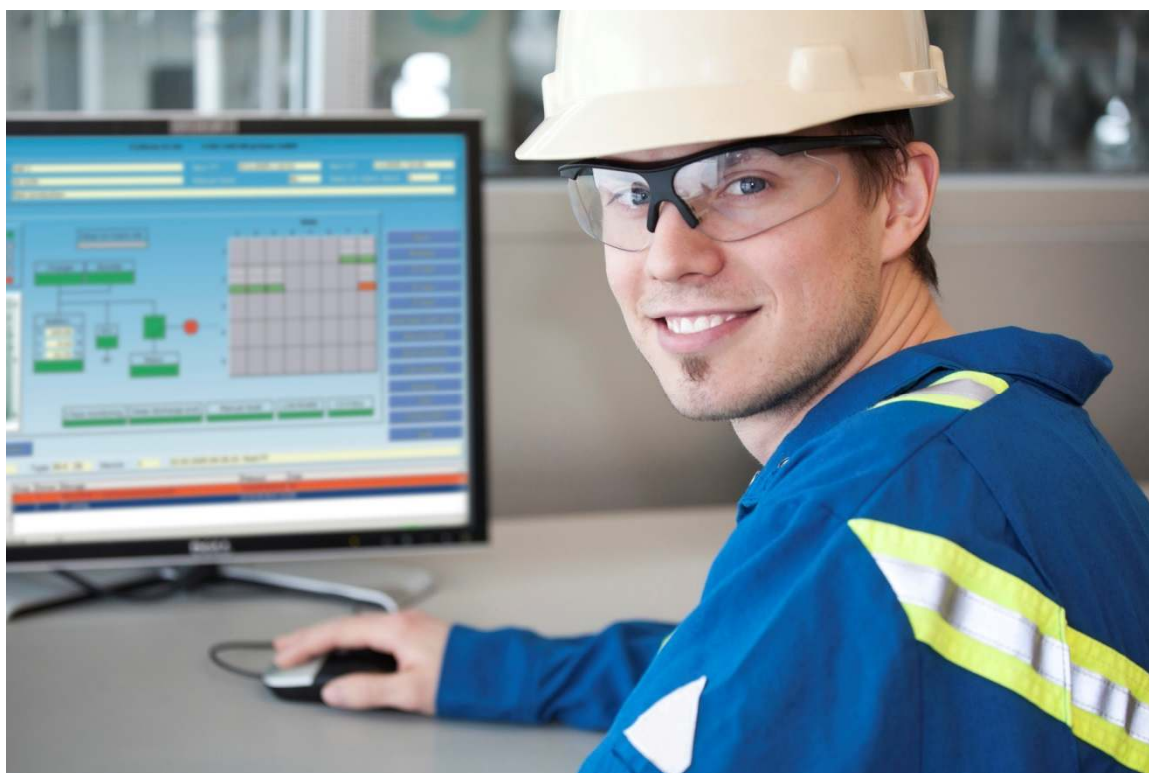
400 71 347 387(M) – Section 10 / 13/12/18/ CE
-Technical alterations without notice!-

Installation and operating instructions
Visualisation and monitoring software
CGVision and CEAG OPC server

For the monitoring and control of
CEAG emergency lighting systems

CGVision from V6.30

400 71 347 387 (M)



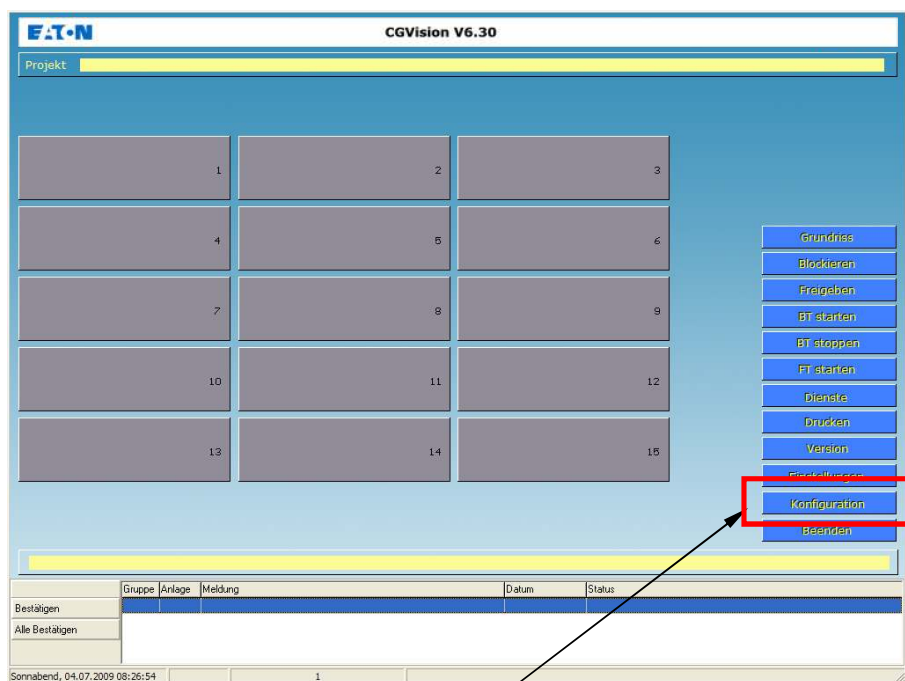
Section 11
Device family GVL 24.1

11 Device family GVL 24.1

11.1 Configuring a GVL24.1/CG48 EGA line

11.1.1 Creating a GVL 24.1 system group:

Note: When entering a GVL 24.1 group the EGA line assignment must be observed. It is possible to connect up to 8 EGA lines each with max. 32 systems to the CGVision. Connection of the EGA lines is via the serial interface (COM ports) of the PC. One COM port is required for each EGA line.



Via the 'Configuration' menu a new device family,
e.g. GVL24.1 can be created

The group configuration menu then appears:

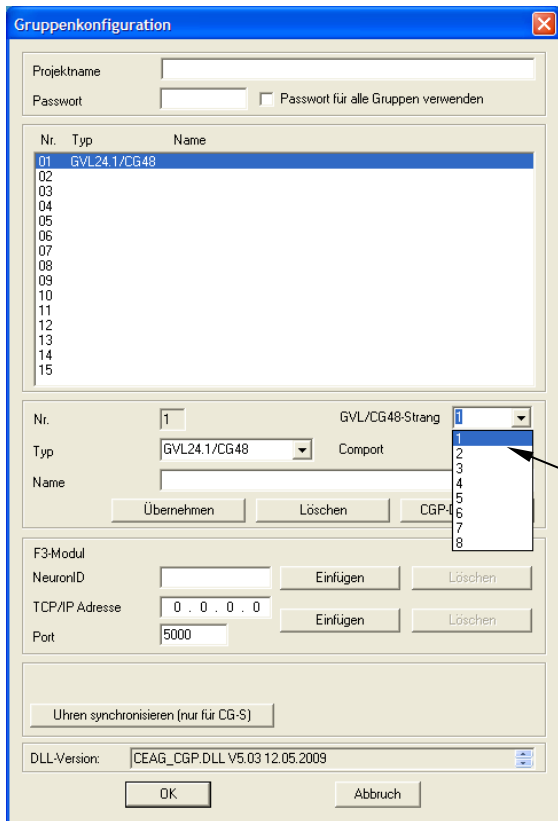
a) In the group selection window a system group can be defined by selecting the corresponding group number (marked blue)

b) In the 'Type' drop-down menu the system type 'GVL24.1/CG48' can be selected and a system group name can be assigned

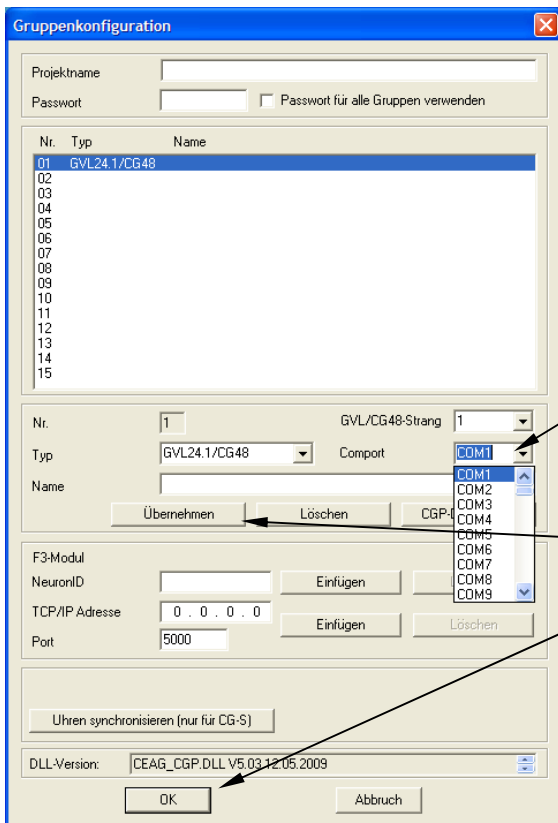
c) The assignment of an EGA line to a COM port is carried out via the drop-down menus 'GVL/CG48 line' and 'COM port'.

d) Confirm with 'Accept', define further groups or exit with 'OK'

Note: It is possible to randomly mix GVL24.1 and CG48 group battery systems in the same line. Because in the main group screen only limited characters are available for the system types, when selecting the group either GVL24.1/CG48 or CG48/GVL24.1 must be selected. The system first specified is then displayed each time in the main group screen as group device type.



Specification of the EGA line:
 In the 'GVL/CG48 line' drop-down menu an EGA line 1 to 8 can be specified.

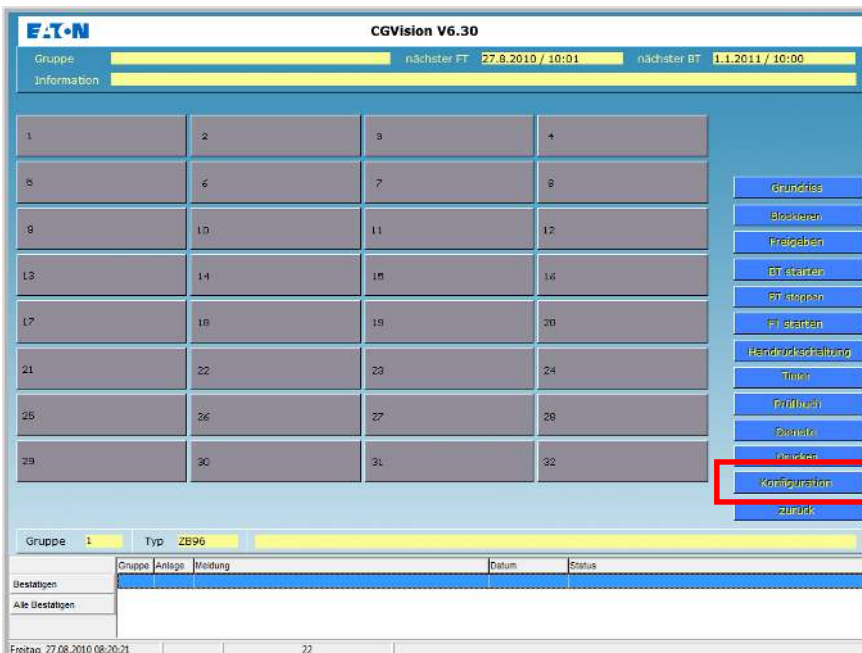
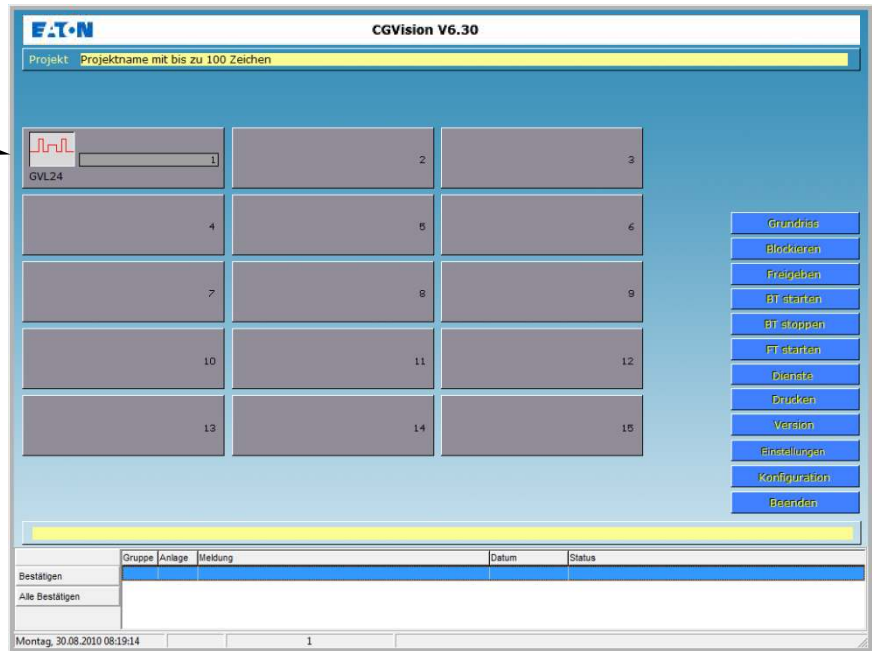


Assigning the COM port:
 after entering the EGA line this can be assigned to a COM port (1 to 255) via the drop-down menu.

Accepting creates the device group, and in this way further device groups can be created.
 All modifications are saved with OK, and if necessary the program must be restarted.

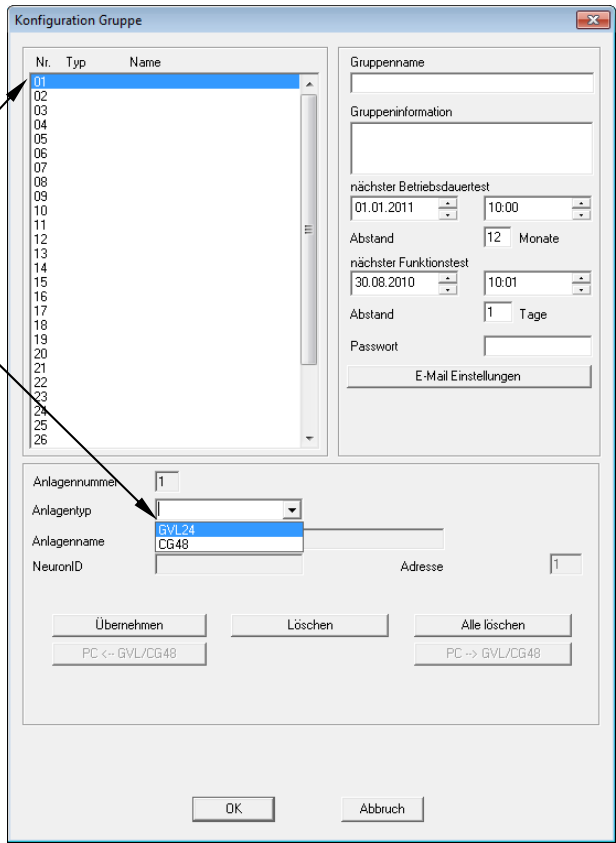
11.1.2 Creating a GVL 24.1 device:

After restarting the GVL 24.1 device group is displayed in the main group screen. If the GVL 24.1 device group is clicked on the system group screen is then displayed.

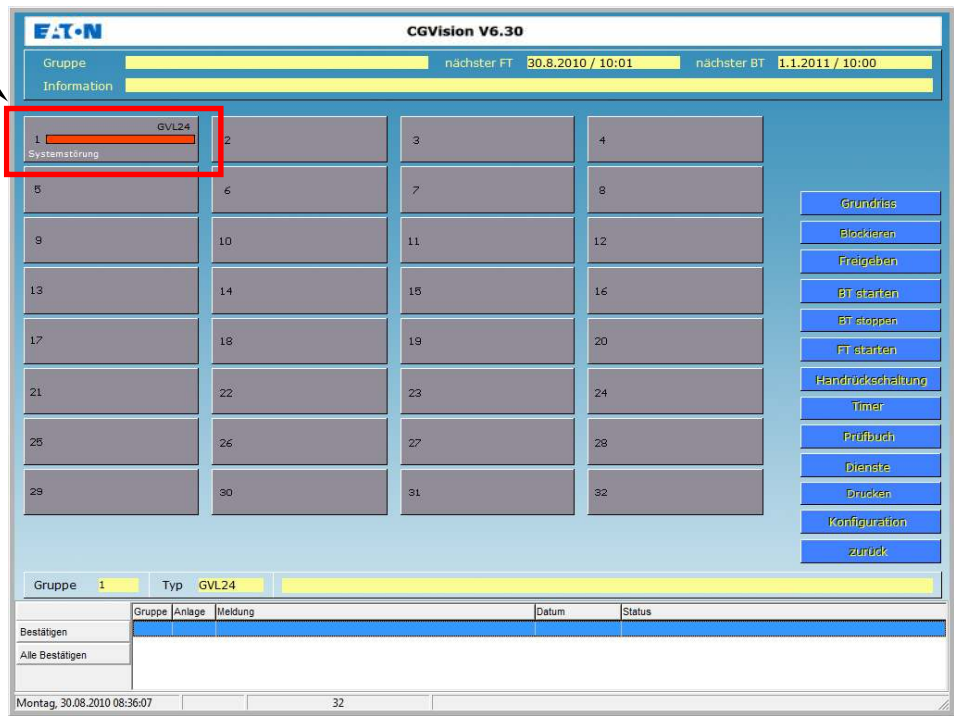


Now GVL 24.1 devices can be added to this group via 'Configuration'.

In the 'Configuration group' menu, systems can be added by selecting the device address 1 to 32 of the line and system type GVL 24.1. All modifications are saved with OK, and the program restarts.



After restarting, all installed GVL 24.1 are shown in the system group screen with their system status. Clicking on the button directly displays the device screen.



11.2 CGP data import – GVL24.1 / CG48

When replacing an existing CGP it is possible to import the GVL24.1/CG48 configuration files of the CGP into CGVision. A CGP data import is only possible for groups not configured in CGVision, meaning the group must contain no systems before a CGP data import.

Gruppenkonfiguration

Projektname:

Passwort: Passwort für alle Gruppen verwenden

Nr.	Typ	Name
01	GVL24.1/CG48	
02		
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		
13		
14		
15		

Nr.: GVL/CG48-Strang:

Typ: Comport:

Name:

Übernehmen Lösch en CGP-Datenimport

F3-Modul

NeuronID: Einfügen Löschen

TCP/IP Adresse: Einfügen Löschen

Port: Einfügen Löschen

Uhren synchronisieren (nur für CG-S)

DLL-Version:

OK Abbruch

Before a CGP data import, the line and the COM port need to be specified. This must be confirmed with 'Accept'.
CGP data import is started via the 'CGP data import' button.

CGP-Datenimport

Verzeichnis CGP-Daten: ...

Verzeichnis:

Typ:

Gruppennummer: (1 - 15)

Gruppenname:

Strang: (1 - 8)

Comport: (COM1 - COM255)

Start Ende

The following window opens. Here the folder for the CGP configuration data can be specified. Typically as the default source the disk drive A: is specified, used as standard with the CGP for data backups. The CGP data import is triggered with 'Start'. Please follow the following dialog boxes and information.

11.3 Device screen – GVL 24.1

11.3.1 Structure of the device screen:

The screenshot shows the CGVision V6.30 interface. At the top, there are fields for 'Gruppe' and 'Anlage', and a 'Group name and system name (up to 20 characters each)' callout. Below these are fields for 'Information' and 'Handrückschaltung' (set to 'Nein'). A callout 'Displays next function test / continuous operation test' points to the 'nächster FT' and 'nächster BT' fields, which show dates and times like '25.1.2006 / 10:01' and '1.2.2006 / 10:00'. A callout 'Field for supplementary information (up to 100 characters)' points to the 'Anlage' field.

The main area contains a status panel on the left with indicators for 'Betrieb', 'F-Test', 'B-Test', 'Blockiert', and 'Störung'. A central diagram shows components like 'Ladeteil', 'Batterie' (with U: 27.10 V, I: 2.00 A), 'WR', 'Netz', 'Tiefentladeschutz', and 'Kommunikation'. A 7x7 grid of buttons is visible, with a callout 'Button for commands or configuration settings' pointing to it. A vertical menu on the right includes buttons like 'Grundriss', 'BT starten', 'BT stoppen', 'FT starten', 'Tiefenladung qualifizieren', 'Handrückschaltung', 'Dienste', 'Drücken', 'Konfiguration', 'Konfiguration WR', and 'zurück'.

At the bottom, there is a status bar with 'Gruppe 7', 'Typ GVL24', 'Anlage 1', and '17.12.2005 13:27:16 BT-Stop'. Below this is an alarm list table with columns for 'Gruppe', 'Anlage', 'Meldung', 'Datum', and 'Status'. A callout 'Direct status messages of device' points to the 'Meldung' column. A callout 'Alarm list with confirmation option, identical to the main group screen' points to the 'Bestätigen' and 'Alle Bestätigen' buttons. A callout 'Installed converters on max. 4 pcs. 19" racks. Grey field signifies 'not installed'' points to the 'Datum' and 'Status' columns.

Button functions for command or configuration settings

The screenshot displays the FATON CGVision V6.30 software interface. At the top, there is a status bar with the following information: 'Gruppe' (empty), 'Anlage' (empty), 'Information' (empty), 'nächster FT' (25.1.2006 / 10:01), 'nächster BT' (1.2.2006 / 10:00), 'Handrückschaltung' (Nein), and 'Nachlaufzeit' (0 min). Below the status bar, there is a main control area. On the left, there is a legend for system status: 'Betrieb' (green square), 'F-Test' (red square), 'B-Test' (orange square), 'Blockiert' (yellow square), and 'Störung' (grey square). In the center, there is a schematic diagram showing a power system with components: 'Ladeteil', 'Batterie' (with U: 27.10 V and I: 2.00 A), 'WR', 'Notlichtbetrieb', and 'Netz'. To the right of the schematic is a 7x4 grid. On the far right, there is a vertical menu of buttons: 'Grundriss', 'BT starten', 'BT stoppen', 'FT starten', 'Tiefenladung quillieren', 'Handrückschaltung', 'Dienste', 'Drucken', 'Konfiguration', 'Konfiguration WR', and 'zurück'. Below the main control area, there is a data entry bar with fields for 'Gruppe' (7), 'Typ' (GVL24), 'Anlage' (1), and '17.12.2005 13:27.16 BT-Stop'. At the bottom, there is a table with columns for 'Gruppe', 'Anlage', 'Meldung', 'Datum', and 'Status'. The table is currently empty. The bottom status bar shows 'Sonntagabend, 17.12.2005 13:38:51' and '33_1'.

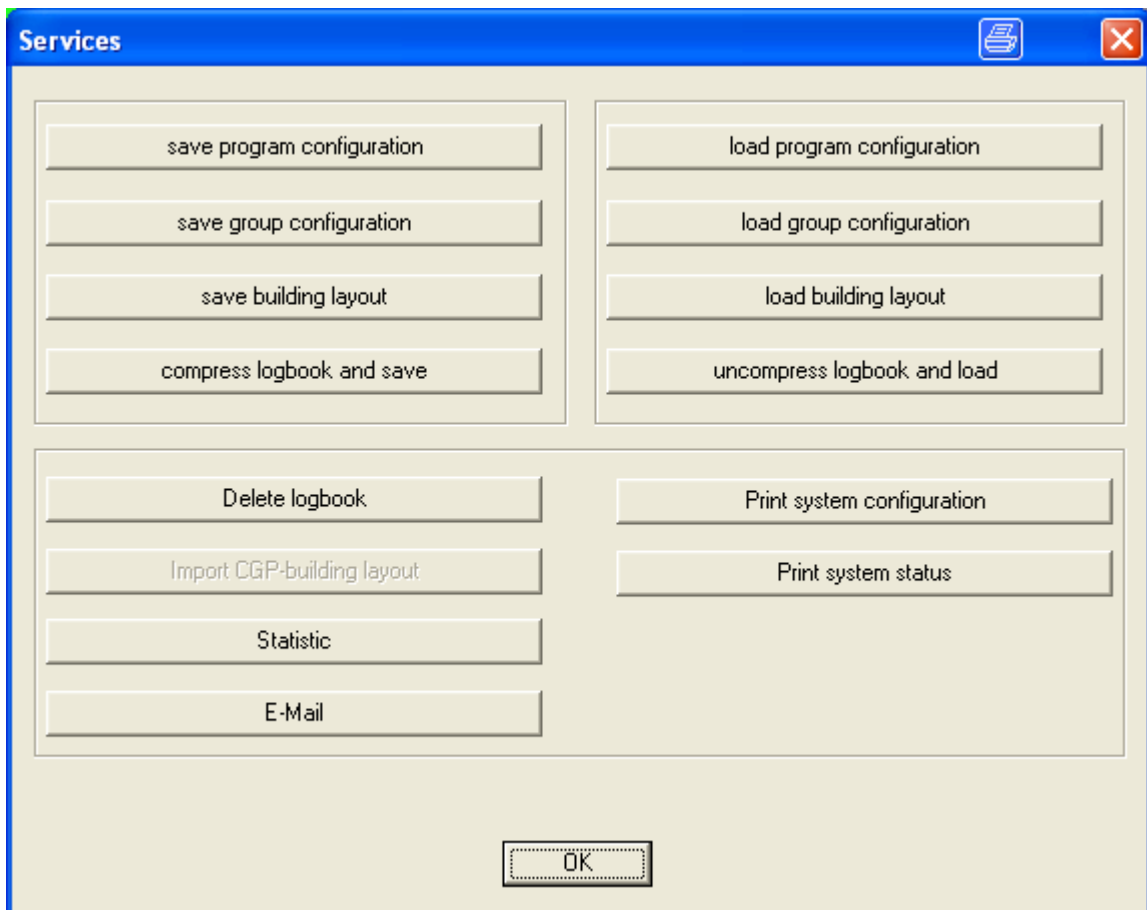
- a). 'Layout'
Calling up of the first layout of the system group (option must be released)
- b). 'Start BT'
A BT test (continuous operation test) is carried out for the device.
- c). 'Stop BT'
BT test is aborted for the device.
- d). 'Start FT'
An FT test (function test) is carried out for the device.
- e). 'Confirm total discharge protection'
Confirmation of a total discharge protection
- f). 'Manual resetting'
This enables the device responding to manual resetting to be reset.
- g). 'Services'
Various services for the inspection book and for configuration
- h). 'Print'
A screenshot of the screen is printed
- i). 'Configuration'
Configuration settings for all data on the device screen
- j). 'Configuration WR'
Configuration settings for converter modules
- k). 'Back'
Return to system group screen

a). Calling up of the first available layout in the system
(option must be released, see the 'layout programming' section)

b) - f). Commands specified above can be executed directly

g). 'Services'

Various services for the inspection book and for configuration



The 'Services' menu is identical with the 'Services' menu in the system group screen, apart from clicking on Status only relates to the system. You can find a detailed description for saving and opening of program configurations/group configurations in Section 'System group screen', j) 'Services'.

h. 'Configuration of system' (device)

a). General

Entry of device name (max. 20 characters) and supplementary information (max. 100 characters)

Konfiguration Anlage (Gruppe 01 / Anlage 01 / GVL24)

Name

Information

Handrückschaltung

Nachlaufzeit 0 min

TLS-Zeiten min

Kapazität 24 Ah

PC -> GVL/CG48

Abbruch

With the button 'PC → GVL/CG48', the configuration only is saved to CGVision. The data, due to technical reasons, are not saved by the GVL.

h. 'Configuration of system' (device)

b). Manual resetting and emergency light delay period

Activate/deactivate manual resetting

Konfiguration Anlage (Gruppe 01 / Anlage 01 / GVL24)

Name

Information

Handrückschaltung

Nachlaufzeit 0 min

TLS-Zeiten min

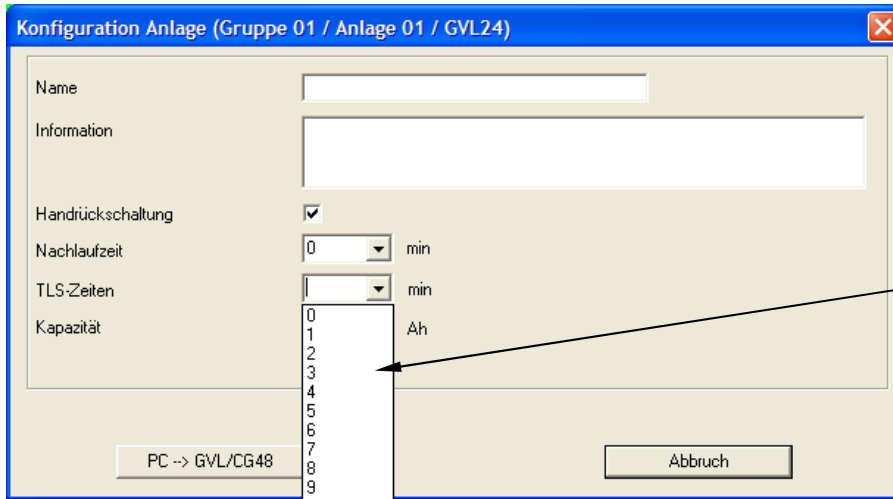
Kapazität Ah

PC -> GVL/CG48

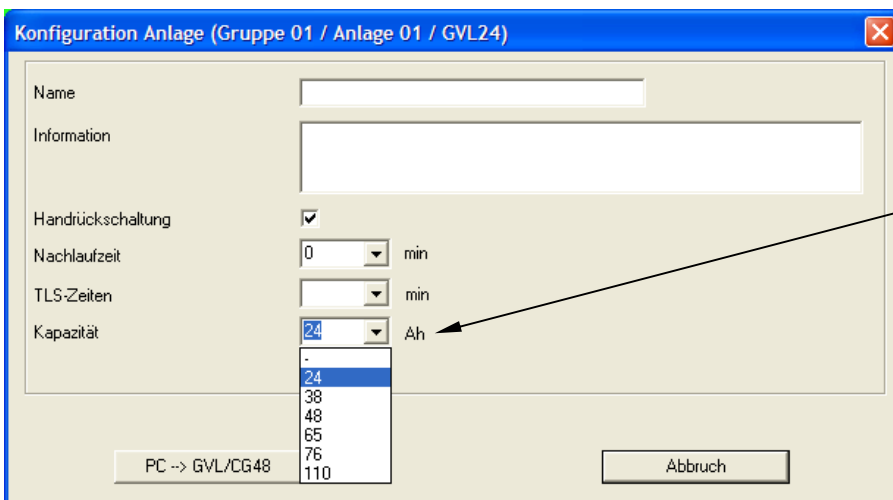
Abbruch

Drop-down menu for entering the emergency light delay period from 1 to 15 minutes

**h. 'Configuration of system' (device)
c). TLS times and battery capacity**



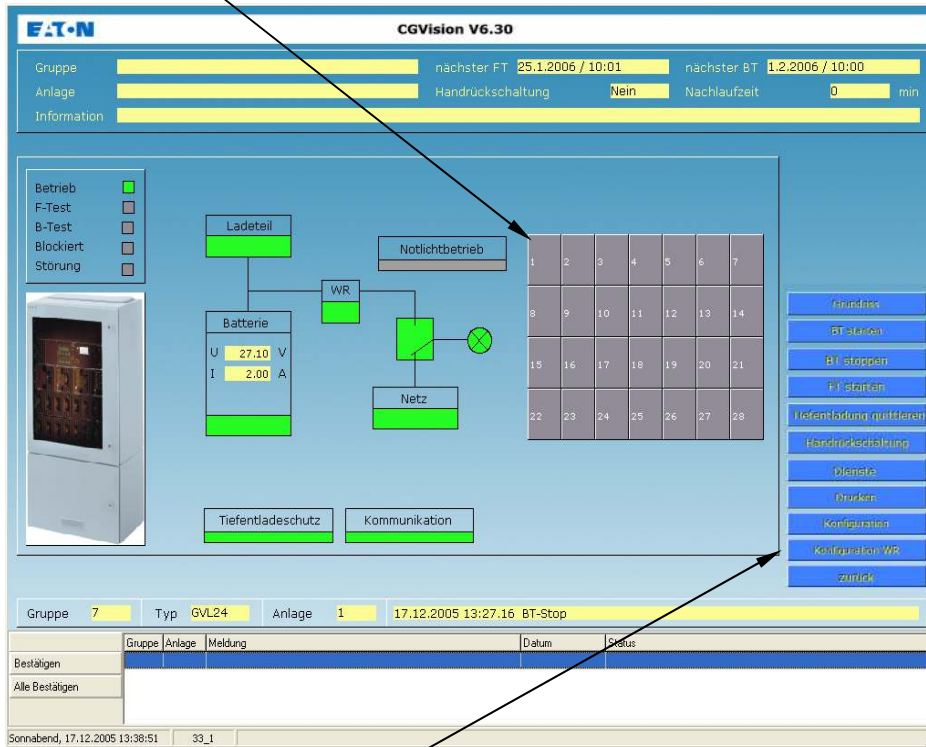
With installed TLS module, from 1 to 15 minutes can be selected via the 'TLS times' drop-down menu.



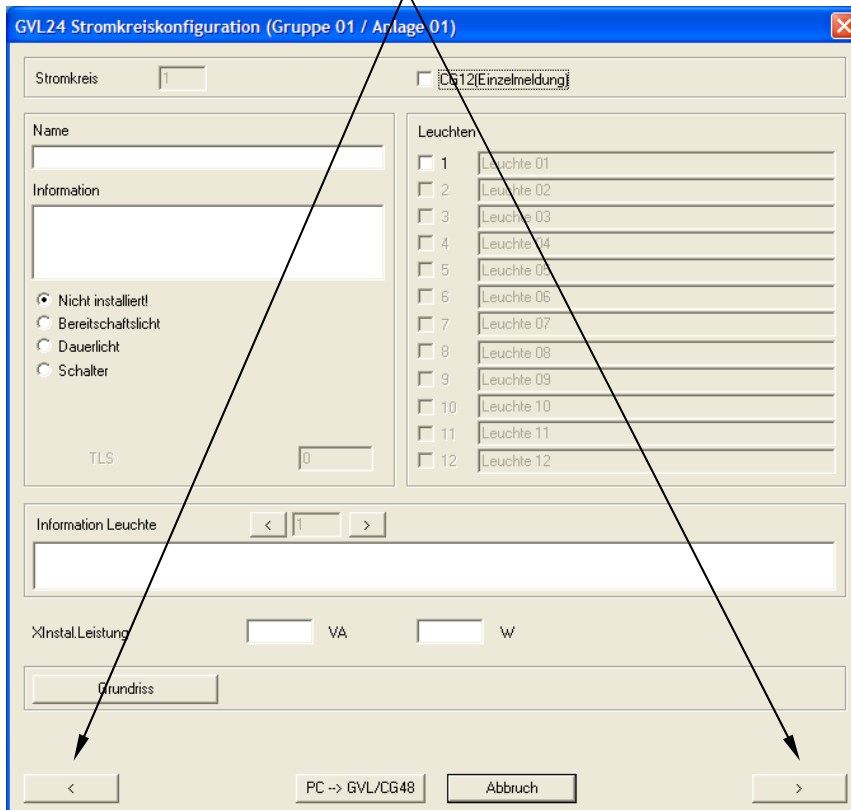
Battery capacity can be set from 24Ah to 110 Ah via the 'Capacity' menu.

11.4 Converter installation

Installed converters and CG12 monitoring modules must be **manually** created in CGVision. Clicking on the corresponding module accesses the circuit menu for this purpose.



The circuit configuration is opened via the 'Configuration WR' button. Here converters or the CG12 monitoring can be installed. The corresponding modules (circuits) can be selected via arrow left / right.



Input of circuit name (max. 20 characters) and supplementary information (max. 100 characters)

An operating mode must be selected here for installing the converter. If a consumer is connected the CG function (luminaire 1) can be additionally activated.

To install a CG12 module the CG12 (single message) must be activated (more information on the next page)

Stromkreis: 1

CG12(Einzelmeldung)

Name: []

Information: []

Nicht installiert!
 Bereitschaftslicht
 Dauerlicht
 Schalter

TLS: 0

Leuchten:

<input type="checkbox"/>	1	Leuchte 01
<input type="checkbox"/>	2	Leuchte 02
<input type="checkbox"/>	3	Leuchte 03
<input type="checkbox"/>	4	Leuchte 04
<input type="checkbox"/>	5	Leuchte 05
<input type="checkbox"/>	6	Leuchte 06
<input type="checkbox"/>	7	Leuchte 07
<input type="checkbox"/>	8	Leuchte 08
<input type="checkbox"/>	9	Leuchte 09
<input type="checkbox"/>	10	Leuchte 10
<input type="checkbox"/>	11	Leuchte 11
<input type="checkbox"/>	12	Leuchte 12

Information Leuchte: [1]

XInstal.Leistung: [] VA [] W

Grundriss

< PC --> GVL/CG48 Abbruch >

To the layout programming of the circuit (option must be released)

11.5 CG12- Single message for up to 12 luminaires

If the CG12 (single message) is activated then up to 12 luminaires can be assigned to the circuit.

A luminaire text with up to 20 characters can be assigned to each installed luminaire.

The screenshot shows the 'GVL24 Stromkreiskonfiguration (Gruppe 01 / Anlage 01)' window. The 'Stromkreis' field is set to '1' and the 'CG12(Einzelmeldung)' checkbox is checked. The 'Name' and 'Information' fields are empty. The 'Leuchten' list contains 12 items, with checkboxes for items 1-9 checked and items 10-12 unchecked. The 'Information Leuchte' field shows the text 'Achtung: Montagehöhe 5m, Leiter mitnehmen. Letzte Wartung 18.07.2009'. The 'XInstal.Leistung' field is empty, and the 'Grundriss' button is visible. The bottom of the window has navigation buttons: '<', 'PC -> GVL/CG48', 'Abbruch', and '>'.

Leuchte	Status	Text
1	✓	SL 22011 CG-S
2	✓	SL 22011 CG-S
3	✓	RZ 22011 CG-S PU
4	✓	SL 22011 CG-S
5	✓	SL 22011 CG-S
6	✓	RZ 22011 CG-S PU
7	✓	RZ 22011 CG-S PU
8	✓	SL 22011 CG-S
9	✓	SL 22011 CG-S
10	☐	Leuchte 10
11	☐	Leuchte 11
12	☐	Leuchte 12

If individual luminaires are installed via a CG12 module, then a supplementary text (up to 100 characters) can be entered for each installed luminaire. Selection of the luminaire is via arrow left / arrow right.

11.6 Circuit screen

Text fields for information, e.g. device, location etc.

Display of next FT/BT and extended circuit information, e.g. in BL (standby light), DL (maintained light), DLS (switch query) or TLS (stairway light query)

Installed luminaires on the CG12 module

Up to 20 characters per luminaire can be read directly
Clicking on the luminaire text opens a window with up to 100 characters of supplementary information

The screenshot displays the 'CGVision V6.30' software interface. At the top, there are fields for 'Gruppe', 'Anlage', 'Stromkreis', and 'Information'. Below these are fields for 'nächster FT' (12.9.2009 / 10:01), 'nächster BT' (12.2010 / 10:00), 'Handrückschaltung' (Nein), and 'Nachlaufzeit' (0 min). There are also checkboxes for 'BL', 'DL' (checked), 'DLS1', 'DLS2', and 'TLS'. A 'Stromkreis' dropdown is set to '1'. The main area shows a list of 12 luminaires (SL 22011 CG-S, RZ 22011 CG-S-PU, etc.) with status indicators. A pop-up window titled 'Hinweis' is open, displaying a warning icon and the text: 'Information Leuchte 1: Achtung: Montagehöhe 5m, Leiter mitnehmen. Letzte Wartung 18.07.2009'. At the bottom, there are buttons for 'Grundriss', 'Drucken', 'Konfiguration', and 'zurück'. A footer bar shows 'Gruppe 1', 'Typ GVL24', 'Anlage 1', and a date/time stamp: 'Freitag, 11.09.2009 15:54:12'.

11.7 General display options

The status of devices or components is displayed in colour in all screens.

- Green signifies 'OK'
- Red signifies 'fault' in the affected area
- Yellow signifies 'switched on', e.g. circuit is switched on.
- Grey signifies 'switched off', e.g. luminaire is switched off 'standby light'

Examples:

The screenshot shows the main overview screen of the CGVision V6.30 interface. At the top, there are status bars for 'Gruppe', 'Anlage', and 'Information'. Below this is a control panel with buttons for 'Betrieb', 'F-Test', 'B-Test', 'Blockiert', and 'Störung'. The central part of the screen displays a circuit diagram with components like 'Ladeteil', 'Notlichtbetrieb', 'Batterie', 'WR', and 'Netz'. A grid of 28 cells (7x4) shows the status of individual circuits, with circuit 3 highlighted in red. To the right, there are several blue buttons: 'Grundriss', 'BT starten', 'BT stoppen', 'FT starten', 'Tiefentladesch. quit', 'Handrückschaltung', 'Dienstis', 'Drucken', 'Konfiguration', and 'zurück'. At the bottom, there is a table with columns for 'Gruppe', 'Anlage', 'Meldung', 'Datum', and 'Status'. The table shows several entries, with the first one highlighted in red.

Fault display in plain text in alarm list (red)

Circuit No.1: faulty. Luminaires are **ALL** displayed as faulty (red). The individual luminaire faults can only be read out at the CG12 module on the GVL device!

The screenshot shows a detailed view of a circuit (Stromkreis 3) in the CGVision V6.30 interface. The top part of the screen shows the same status bars as the overview screen. Below this, there is a section for 'Stromkreis 3' with a red indicator. The main part of the screen displays a list of luminaires (Leuchte 01 to Leuchte 12) with their status. Leuchte 01 is highlighted in red, indicating a fault. The other luminaires are highlighted in yellow, indicating they are not installed. To the right, there are several blue buttons: 'Grundriss', 'Drucken', 'Konfiguration', and 'zurück'. At the bottom, there is a table with columns for 'Gruppe', 'Anlage', 'Meldung', 'Datum', and 'Status'. The table shows several entries, with the first one highlighted in red.



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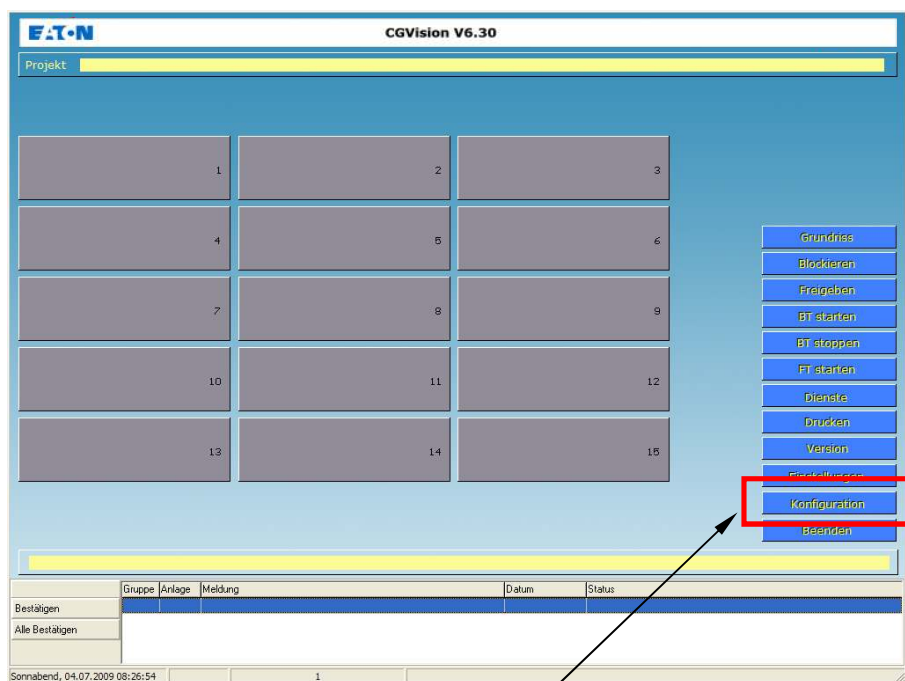
Section 12
Device family CG48

12 Device family CG48

12.1 Configuring a CG48/GVL24.1 EGA line

12.1.1 Creating a CG48 system group:

Note: When entering a CG48 group the EGA line assignment must be observed. It is possible to connect up to 8 EGA lines each with max. 32 systems to the CGVision. Connection of the EGA lines is via the serial interface (COM ports) of the PC. One COM port is required for each EGA line.



Via the 'Configuration' menu a new device family,
e.g. CG48, can be created

The group configuration menu then appears:

a) In the group selection window a system group can be defined by selecting the corresponding group number (marked blue)

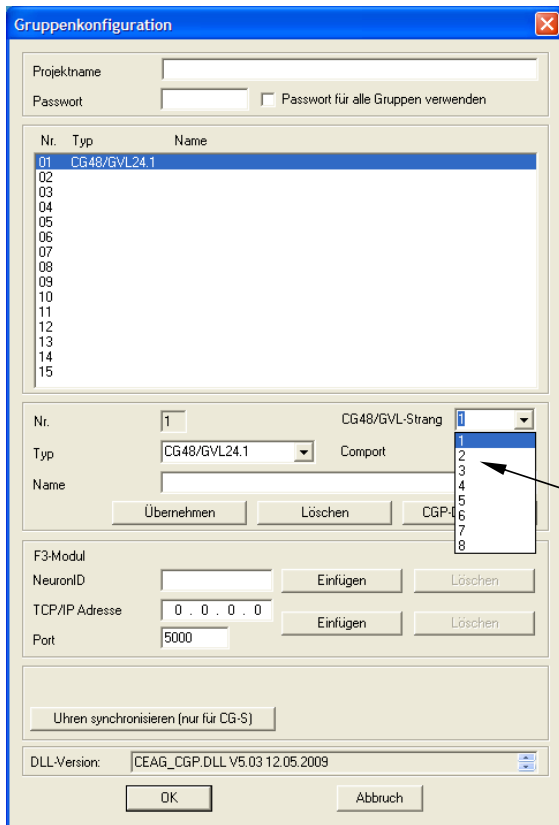
b) In the 'Type' drop-down menu the system type 'CG48/GVL24.1' can be selected and a system group name can be assigned

c) The assignment of an EGA line to a COM port is carried out via the drop-down menus 'GVL/CG48 line' and 'COM port'.

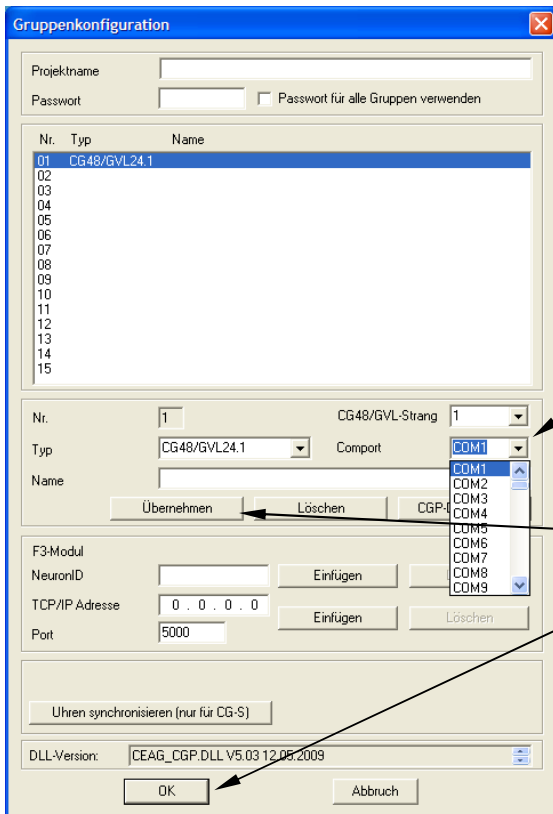
d) Confirm with 'Accept', define further groups or exit with 'OK'

Nr.	Typ	Name
01	CG48/GVL24.1	
02		
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		
13		
14		
15		

Note: It is possible to randomly combine CG48 and GVL24.1 group battery systems in the same line. Because in the main group screen only limited characters are available for the system types, when selecting the group either CG48/GVL24.1 or GVL24.1/CG48 must be selected. The system first specified is then displayed each time in the main group screen as group device type.



Specification of the EGA line:
In the 'CG48/GVL line' drop-down menu, EGA line 1 to 8 can be specified.

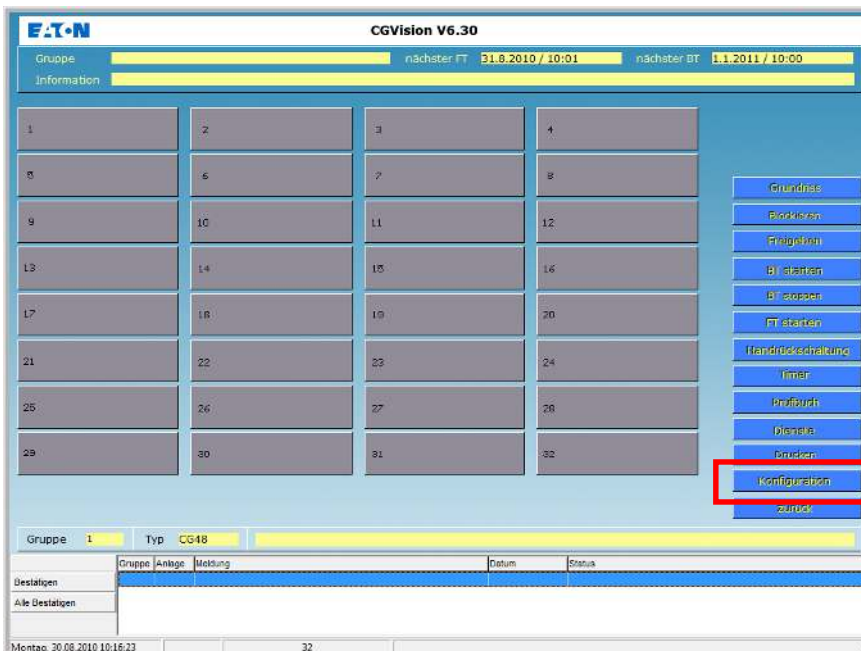
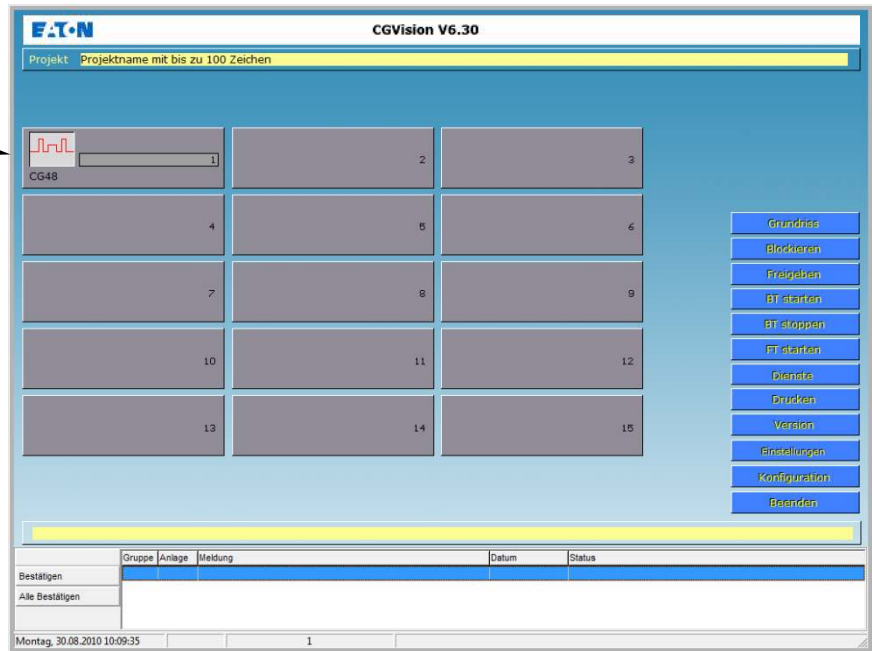


Assigning the COM port:
after entering the EGA line this can be assigned to a COM port (1 to 255) via the drop-down menu.

Accepting creates the device group, and in this way further device groups can be created. All modifications are saved with OK, and if necessary the program must be restarted.

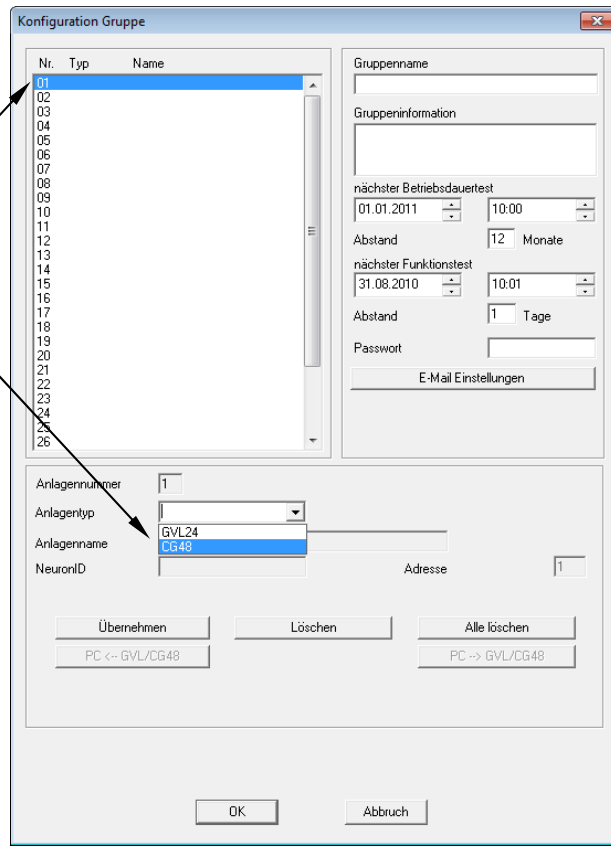
12.1.2 Creating a CG48 device:

After restarting, the CG48 device is displayed in the main group screen. If the CG48 device group is clicked on the system group screen is then displayed.

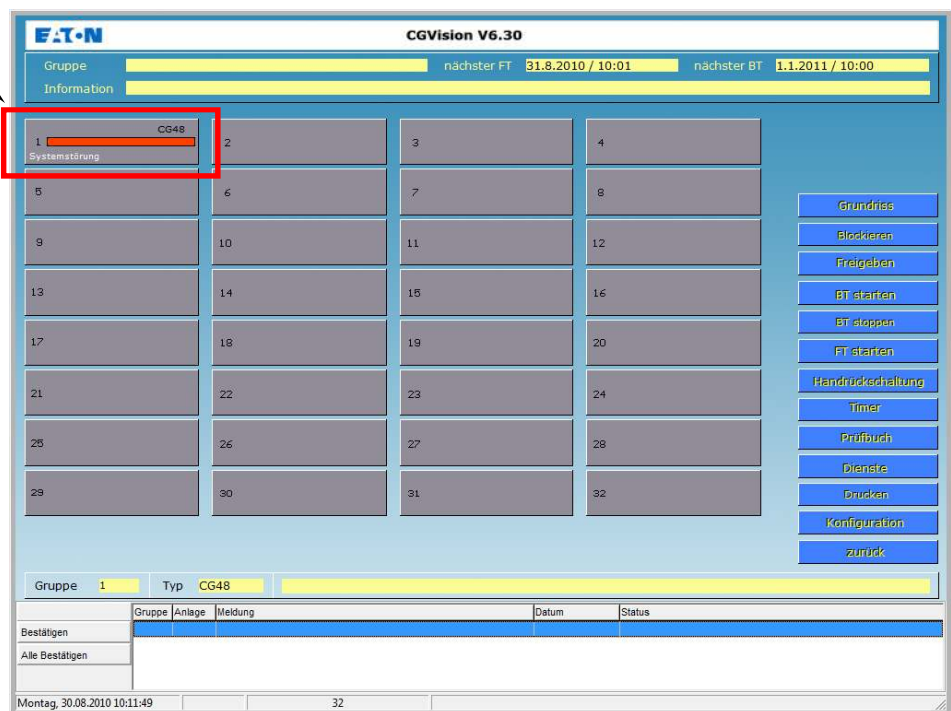


Now CG48 devices can be added to this group via 'Configuration'.

In the 'Configuration group' menu, systems can be added by selecting the device address 1 to 32 of the line and system type CG48. All modifications are saved with OK, and the program restarts.



After restarting, all installed CG48 are shown in the main group screen with their system status. Clicking on the button directly displays the device screen.



12.2 CGP data import – CG48 / GVL 24.1

When replacing an existing CGP it is possible to import the CG48/GVL24.1 configuration files of the CGP into CGVision. A CGP data import is only possible for groups not configured in CGVision, meaning the group must contain no systems before a CGP data import.

The 'Gruppenkonfiguration' dialog box contains the following fields and controls:

- Projektname: [Text Field]
- Passwort: [Text Field] Passwort für alle Gruppen verwenden
- Table with columns: Nr., Typ, Name. Row 01 is selected.
- Nr.: [Text Field] 1
- CG48/GVL-Strang: [Text Field] 1
- Typ: [Text Field] CG48/GVL24.1
- Comport: [Text Field] COM1
- Name: [Text Field]
- Buttons: Übernehmen, Löschen, CGP-Datenimport
- F3-Modul section with fields for NeuronID, TCP/IP Adresse, and Port, each with an Einfügen button.
- Uhren synchronisieren (nur für CG-S): [Text Field]
- DLL-Version: [Text Field] CEAG_CGP.DLL V5.03 12.05.2009
- Buttons: OK, Abbruch

Before a CGP data import, the line and the COM port need to be specified. This must be confirmed with 'Accept'. CGP data import is started via the 'CGP data import' button.

The 'CGP-Datenimport' dialog box contains the following fields and controls:

- Verzeichnis CGP-Daten: [Text Field] A:\
- Verzeichnis: [Text Field] C:\Programme\CEAG\cgvision\texte\
- Typ: [Text Field] GVL24.1/CG48
- Gruppennummer: [Text Field] 1 (1 - 15)
- Gruppenname: [Text Field]
- Strang: [Text Field] 1 (1 - 8)
- Comport: [Text Field] COM1 (COM1 - COM255)
- Buttons: Start, Ende

The following window opens. Here the folder for the CGP configuration data can be specified. Typically as the default source the disk drive A: is specified, used as standard with the CGP for data backups. The CGP data import is triggered with 'Start'. Please follow the following dialog boxes and information.

12.3 Device screen – CG48

12.3.1 Structure of the device screen:

Group name and system name (up to 20 characters each)

Field for supplementary information (up to 100 characters)

Displays next function test / continuous operation test

EATON CGVision V6.30

Gruppe: _____ nächster FT: 25.1.2006 / 10:01 nächster BT: 1.2.2006 / 10:00
 Anlage: _____ Handrückschaltung: Nein Nachlaufzeit: _____ min
 Information: _____

Betrieb
 F-Test
 B-Test
 Blockiert
 Störung

Grundriss
 Blockieren
 Freigeben
 BT starten
 BT stoppen
 FT starten
 Tiefentladung quittieren
 Handrückschaltung
 Dienste
 Drucken
 Konfiguration
 Konfiguration WR
 zurück

Gruppe	Anlage	Meldung	Datum	Status
Bestätigen				
Alle Bestätigen				
Montag, 14.09.2009 11:15:42 33_2				

Installed circuits, max. 4. Grey field signifies 'not installed'. To display installed circuits, these must first be opened with the 'Configuration' menu via the 'PC ← CG48' button.

Direct status messages of device

Button for commands or configuration settings

Alarm list with confirmation option, identical to the main group screen

Button functions for command or configuration settings

The screenshot displays the Eaton CGVision V6.30 software interface. At the top, there is a status bar with fields for 'Gruppe', 'Anlage', and 'Information'. Below this, a main control area features a battery status display showing voltage (U: 27.60 V), current (I: 0.00 A), and charge level (K: 100 %). A schematic diagram shows components like 'Ladeteil', 'WR', 'Netz', and 'Tiefentladeschutz'. On the right side, a vertical menu of buttons includes 'Grundriss', 'Blockieren', 'Freigeben', 'BT starten', 'BT stoppen', 'FT starten', 'Tiefentladung quittieren', 'Handrückschaltung', 'Dienste', 'Drucken', 'Konfiguration', 'Konfiguration WR', and 'zurück'. An arrow points from the text box above to the 'Konfiguration' button.

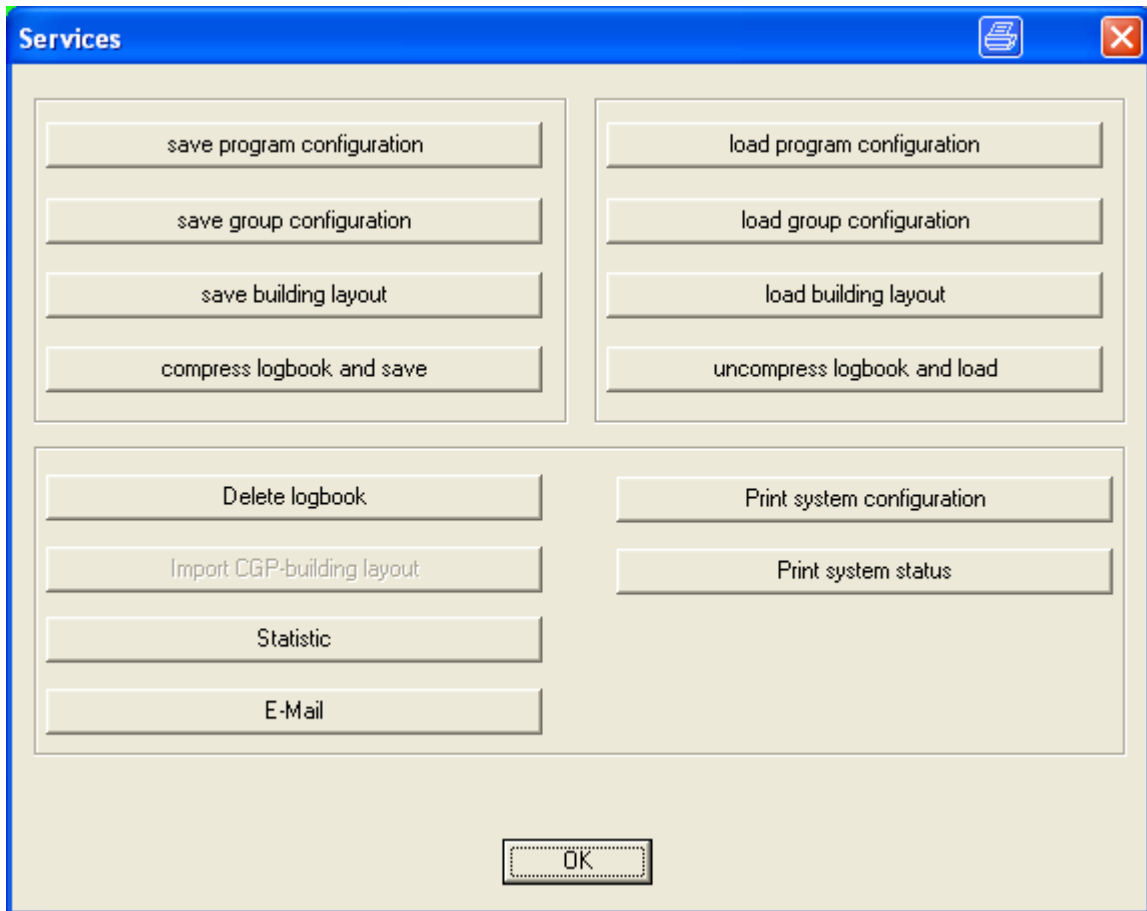
- a). 'Layout'
Calling up of the first layout of the system group (option must be released)
- b). 'Block'
This blocks the device
- c). 'Release'
The blocked device is released
- d). 'Start BT'
A BT test (continuous operation test) is carried out for the device.
- e). 'Stop BT'
BT test is aborted for the device.
- f). 'Start FT'
An FT test (function test) is carried out for the device.
- g). 'Confirm total discharge protection'
Confirmation of a total discharge protection
- h). 'Manual resetting'
This enables the device responding to manual resetting to be reset.
- i). 'Services'
Various services for the inspection book and for configuration
- j). 'Print'
A screenshot of the screen is printed
- k). 'Configuration'
Configuration settings for all data on the device screen
- l). 'Configuration WR'
Configuration settings for converter modules
- m). 'Back'
Return to system group screen

a). Calling up of the first available layout in the system
(option must be released, see the 'layout programming' section)

b) - h). Commands specified above can be executed directly

i). 'Services'

Various services for the inspection book and for configuration



The 'Services' menu is identical with the 'Services' menu in the system group screen, apart from clicking on Status only relates to the system. You can find a detailed description for saving and opening of program configurations/group configurations in Section "System group screen", j) 'Services'.

k. 'Configuration of system' (device)

a). General

Entry of device name (max. 20 characters) and supplementary information (max. 100 characters)

Konfiguration Anlage (Gruppe 01 / Anlage 01 / CG48)

Name

Information

Handrückschaltung

Nachlaufzeit 0 min

TLS-Zeiten min

Kapazität Ah

PC -> GVL/CG48 PC <- GVL/CG48 Abbruch

With the 'PC → GVL/CG48' button, all modified settings can be sent to the device. With the 'PC ← GVL/CG48' button, the current device configurations can be opened in CGVision.

k. 'Configuration of system' (device)

b). Manual resetting and emergency light delay period

Activate/deactivate manual resetting

Konfiguration Anlage (Gruppe 01 / Anlage 01 / CG48)

Name

Information

Handrückschaltung

Nachlaufzeit 0 min

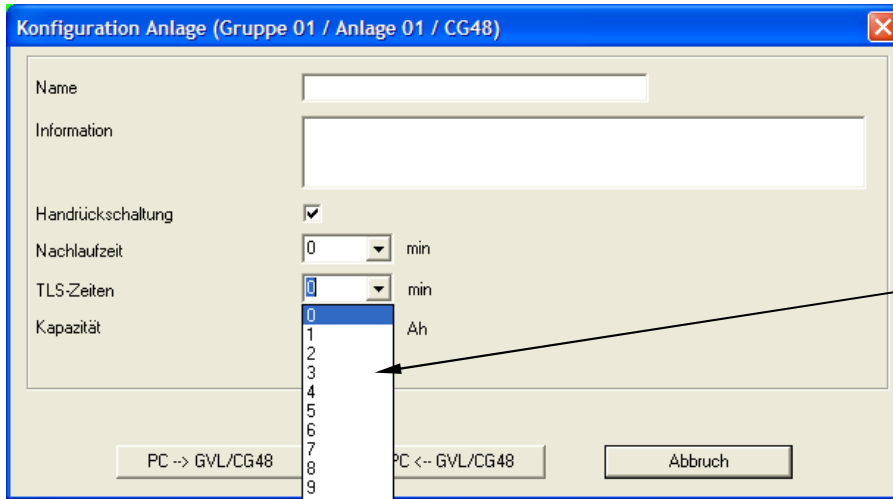
TLS-Zeiten min

Kapazität Ah

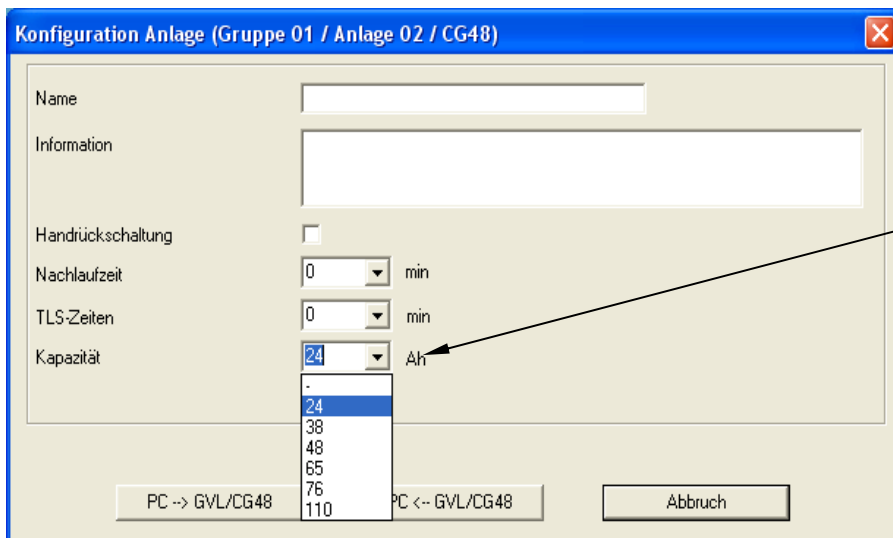
PC -> GVL/CG48 PC <- GVL/CG48 Abbruch

Drop-down menu for entering the emergency light delay period from 1 to 15 minutes

**k. 'Configuration of system' (device)
c). TLS times and battery capacity**



With installed TLS module, a time from 1 to 15 minutes can be selected via the 'TLS times' drop-down menu.



Battery capacity can be set from 24Ah to 110 Ah via the 'Capacity' menu.

12.4 Circuit screen

After the configuration has been loaded by the CG48 all installed circuits are displayed. Circuit menus are accessed by clicking on corresponding circuits.

The circuit can now be configured and luminaires installed via the 'Configuration' button.

12.4.1 Circuit configuration

The screenshot shows the 'CG48 Stromkreiskonfiguration (Gruppe 01 / Anlage 01)' window. It includes a 'Stromkreis' field with the value '1', a 'Name' field, an 'Information' text area, and a 'Leuchten' table. The 'Leuchten' table has 12 rows, with rows 1-9 checked and rows 10-12 unchecked. Below the table are fields for 'XInstal. Leistung' (VA and W), a 'Grundriss' button, and 'PC -> GVL/CG48' and 'Abbruch' buttons.

Callout boxes:

- Circuit number display:** Points to the 'Stromkreis' field.
- Input of circuit name and supplementary information:** Points to the 'Name' and 'Information' fields.
- With CG single luminaire monitoring CG12 (single message) must be activated:** Points to the 'CG12(Einzelmeldung)' checkbox.
- Circuit programming such as Switching type and DLS/TLS assignment:** Points to the radio buttons for switching type and the DLS1/DLS2 dropdowns.
- Adding/removing luminaires via checking of control boxes. After adding luminaires, luminaire texts in plain text, max. 40 characters can be entered:** Points to the checkboxes in the 'Leuchten' table.
- It is possible to enter additional information about the luminaire to 100 characters, e.g. for mounting type. Selection of luminaire texts is via arrow left / arrow right. For information purposes, installed lamp wattages can be manually entered.** Points to the 'Information Leuchte' field and the 'VA'/'W' fields.

12.5 Circuit screen

After circuit configuration, the circuit screen with text information can be opened by clicking on the button for the circuit or luminaire.

Clicking on the luminaire text displays the supplementary information entered for the luminaire (max. 100 characters).

The screenshot shows the EATON CGVision V6.30 software interface. At the top, there are fields for 'Gruppe', 'Anlage', 'Stromkreis', and 'Information'. Below these are fields for 'nächster FT' (15.9.2009 / 10:01), 'nächster BT' (1.1.2010 / 10:00), 'Handrückschaltung' (Nein), and 'Nachlaufzeit' (0 min). There are also checkboxes for 'BL', 'DL' (checked), 'DLS1', 'DLS2', and 'TLS'.

The main area shows 'Stromkreis 1' with a green bar. Below this is a list of luminaires:

1	SL 22011 CG-S
2	SL 22011 CG-S
3	RZ 22011 CG-S PU
4	SL 22011 CG-S
5	SL 22011 CG-S
6	RZ 22011 CG-S
7	RZ 22011 CG-S
8	SL 22011 CG-S
9	SL 22011 CG-S
10	Nicht installiert!
11	Nicht installiert!
12	Nicht installiert!

A pop-up window titled 'Hinweis' is displayed over the list, showing an exclamation mark icon and the text: 'Information Leuchte 1: Achtung: Montagehöhe 5m, Leiter mitnehmen, Letzte Wartung 18.07.2009'. There is an 'OK' button at the bottom right of the pop-up.

At the bottom right, there are buttons for 'Grundriss', 'Drucken', 'Konfiguration', and 'zurück'. At the bottom left, there are fields for 'Gruppe 1', 'Typ CG48', and 'Anlage 1'. Below these is a table with columns 'Gruppe', 'Anlage', 'Meldung', 'Datum', and 'Status'. The table has two rows: 'Bestätigen' and 'Alle Bestätigen'. At the very bottom, there is a status bar showing 'Montag, 14.09.2009 12:59:38' and the page number '36'.

12.6 General display options

The status of devices or components is displayed in colour in all screens.

- Green signifies 'OK'
- Red signifies 'fault' in the affected area
- Yellow signifies 'switched on', e.g. circuit is switched on.
- Grey signifies 'switched off', e.g. luminaire is switched off 'standby light'

Examples:

FAT-ON CGVision V6.30

Gruppe: [] nächster FT: 25.1.2006 / 10:01 nächster BT: 1.2.2006 / 10:00
 Anlage: [] Handrückschaltung: Nein Nachlaufzeit: 0 min
 Information: []

Betrieb:
 F-Test:
 B-Test:
 Blockiert:
 Störung:

Grundriss
 Blockieren
 Freigeben
 BT starten
 BT stoppen
 FT starten
 Tiefentladesch. quit
 Handrückschaltung
 Dienste
 Drucken
 Konfiguration
 zurück

Gruppe 1 Typ CG48 Anlage 2 21.12.2005 11:50:51 FT-Start

Bestätigen	Gruppe	Anlage	Meldung	Datum	Status
Alle Bestätigen	1	2	FT läuft	21.12.05 11:52:29	Aus
	2	2	Batterienbetrieb	21.12.05 11:52:29	Aus
	2	2	Notlichtbetrieb	21.12.05 11:51:29	Ein

Mittwoch, 21.12.2005 11:52:36 33_2

Circuit No.1: in standby light - luminaires displayed grey

Fault display in plain text in alarm list (red)

Circuit No.1: faulty - luminaire No. 1 fault (red)

FAT-ON CGVision V6.30

Gruppe: [] nächster FT: 25.1.2006 / 10:01 nächster BT: 1.2.2006 / 10:00
 Anlage: [] Handrückschaltung: Nein Nachlaufzeit: 0 min
 Stomkreis: BL X DL [] DLS1 [] DLS2 [] TLS []
 Information: []

Stromkreis 1

1 RZ 1706 CG-S PL/PR
 2 SL 6011.1
 3 Nicht installiert!
 4 Nicht installiert!
 5 Nicht installiert!
 6 Nicht installiert!
 7 Nicht installiert!
 8 Nicht installiert!
 9 Nicht installiert!
 10 Nicht installiert!
 11 Nicht installiert!
 12 Nicht installiert!

Grundriss
 Drucken
 Konfiguration
 zurück

Gruppe 1 Typ CG48 Anlage 2 21.12.2005 11:50:51 FT-Start

Bestätigen	Gruppe	Anlage	Meldung	Datum	Status
Alle Bestätigen	1	2	FT laut	21.12.05 11:52:29	Aus
	2	2	Batterienbetrieb	21.12.05 11:52:29	Aus
	2	2	Notlichtbetrieb	21.12.05 11:51:29	Ein

Mittwoch, 21.12.2005 11:54:46 36



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Section 13
Monitoring of external devices

13 Monitoring of external devices

13.1 General information

Section 13 describes possibilities for controlling and monitoring external devices, e.g. systems from other manufacturers, with the I/O interface connection box and the I/O ethernet module.

This is implemented with the aid of zero-potential inputs and relay contacts of the external device, meaning only functions can be controlled and monitored that are made available by the external device via zero-potential inputs and outputs.

In CGVision, up to 15 groups each with up to 32 I/O modules (I/O interface connection box or I/O ethernet module) can be connected, meaning a max. of 480 I/O modules can be connected.

The I/O interface connection box contains a relay module (F3-Interface) with 4 digital inputs and 5 relay outputs.

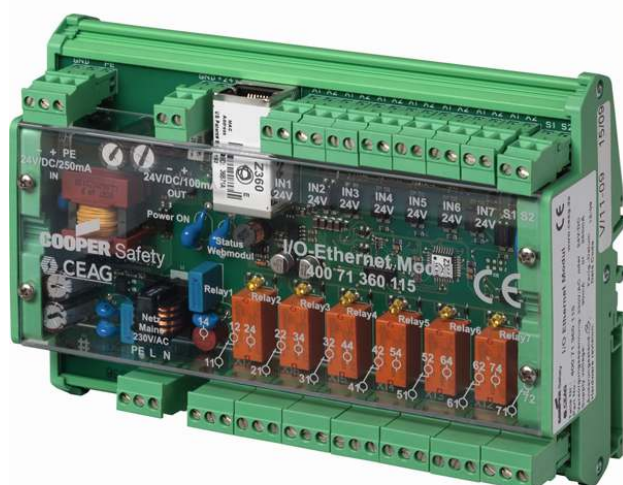
The I/O ethernet module has 8 digital inputs and 7 relay outputs.

The modules feature different methods of connection to CGVision. Detailed information can be found in the corresponding module sections.

F3-Interface with
4 digital inputs and 5 relay outputs



I/O ethernet modul with
8 digital inputs and 7 relay outputs



13.2 Monitoring with the I/O interface connection box

13.2.1 General information about the I/O interface connection box

The I/O interface connection box consists of an I/O module (F3 interface) and a power supply unit, installed in a surface-mounted wall housing for simple wall mounting. The I/O module has 4 digital inputs (24V) and 5 relay outputs (max. 230V/ AC, 8A). Connection to CGVision is via the CG-S bus, meaning it can be connected to the CG-S bus parallel to the ZB-S or CG2000, or with autonomous operation requires the CG-S/USB interface. Routing via the ethernet with the aid of CG-S/IP routers can be simply implemented.

Via the digital inputs or relay outputs it is possible in CGVision to set off up to 4 control commands (e.g. start test) and monitor up to 5 operating states (e.g. fault messages). The states of the digital inputs can be configured in three colours in CGVision (green/yellow/red) to display an operating condition (operation = green) or a special operation (e.g. battery operation = yellow). Conditions assigned red, e.g. for displaying common system faults, produce an entry into the inspection book of the group.

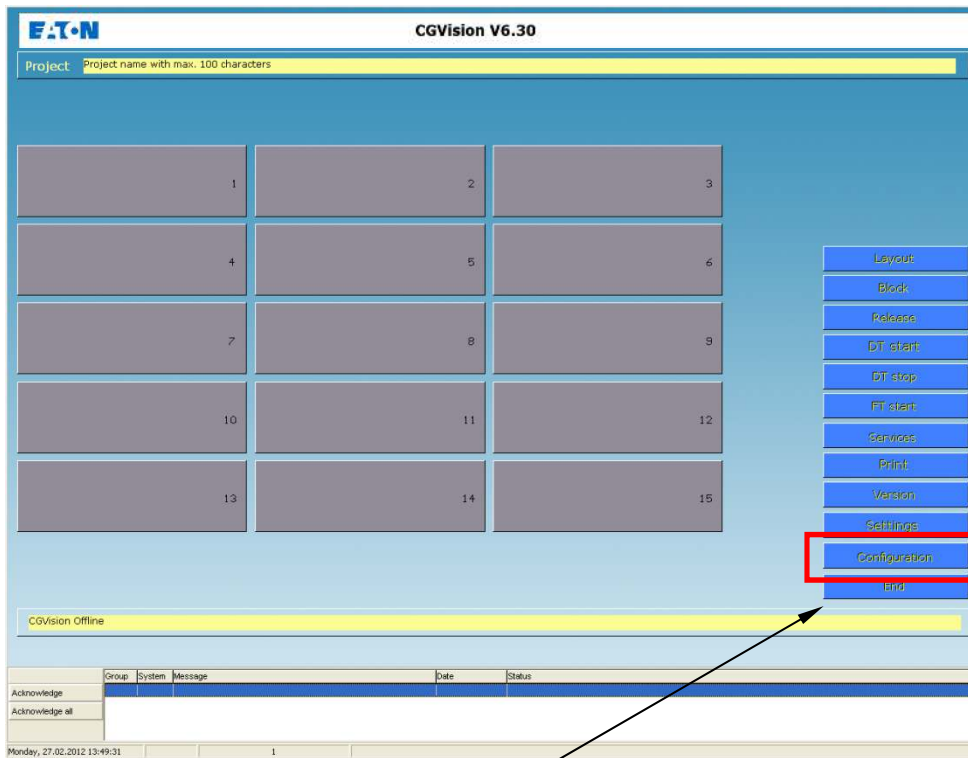
A maximum of 15 groups with up to 32 modules per group can be created in CGVision.

Please consult the included operating instructions for information on electrical connection and module technical data.

Figure: I/O interface connection box



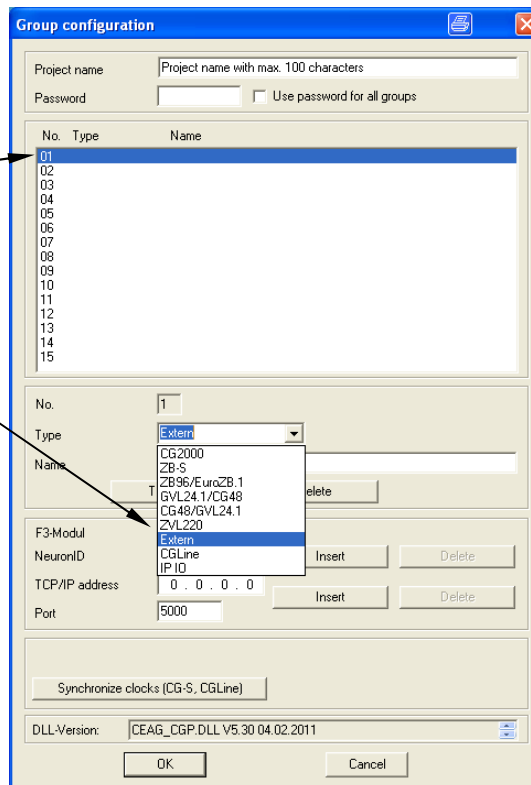
13.2.2 Creating an I/O interface connection box device group

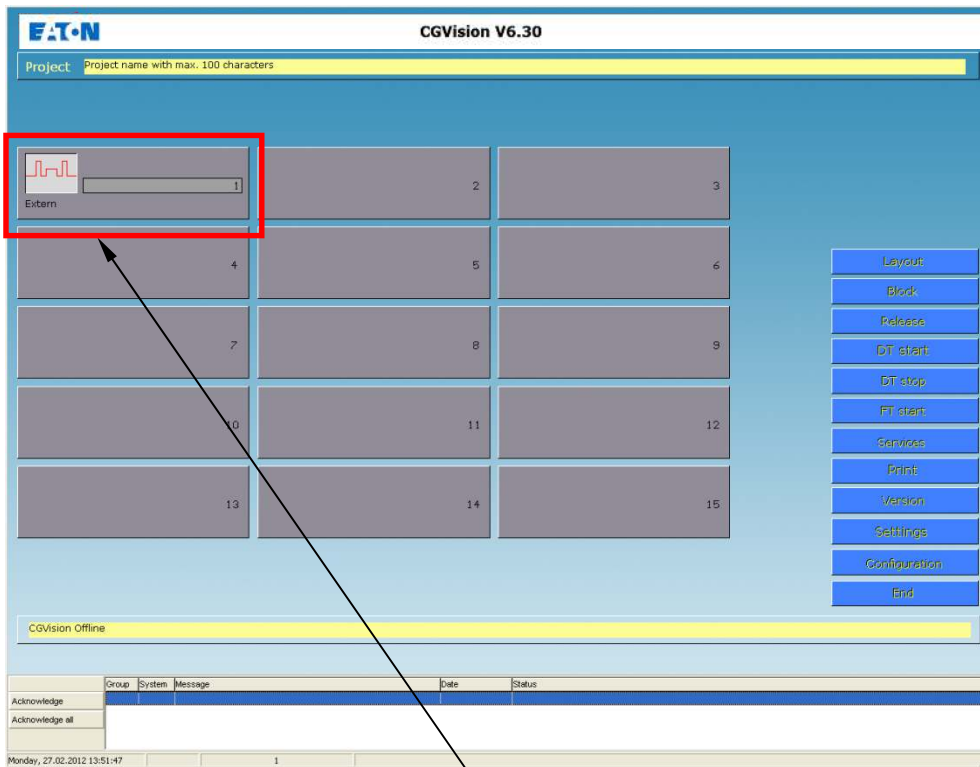


A new device family can be created via the Configuration menu, in this case 'externally'.

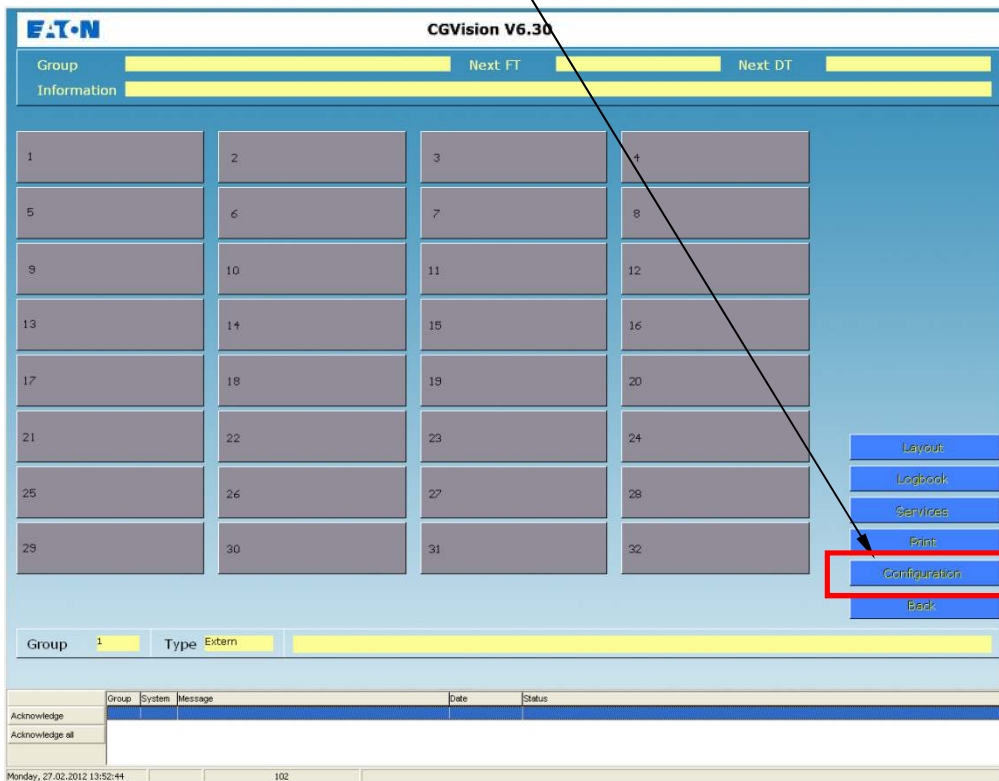
The group configuration menu then appears:

- In the group selection window a system group can be defined by selecting the corresponding group number (marked blue)
- In the 'Type' drop-down menu the system type 'External' can be selected and a system group name can be assigned
- Confirm with 'Accept', define further groups or exit with 'OK'





The system group has now been added. If this group is clicked on, the system group screen is displayed.
Up to 32 devices can now be created via the 'Configuration' menu



The system configuration menu then appears:

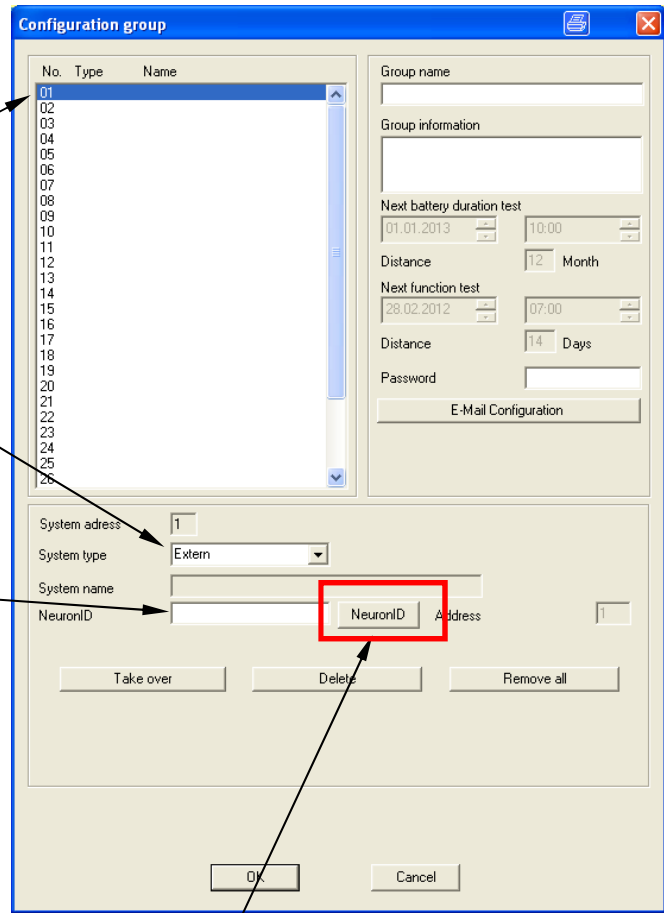
- a) In the device selection window the I/O module can now be assigned any logical address (marked blue)
- b) 'External' system type
- c) The 12-character Neuron ID (NID) of the device must now be entered.

1. Via the new search tool (network scan) as described below

2. Manual entry

The Neuron ID (NID) is stuck onto the front plate of the module

Confirm with 'Accept', add further groups in the same way or exit with 'OK'
Automatic restarting of CGVision is now required.



About the first entry of the Neuron ID via the new search tool:

The simplest method to add devices in CGVision is offered by a new search tool that carries out a network scan on the CG-S bus and lists all modules with a Neuron ID. To start the search tool, the desired device address (in the example address 01, marked blue above) must be selected and then the 'NeuronID' button clicked on.

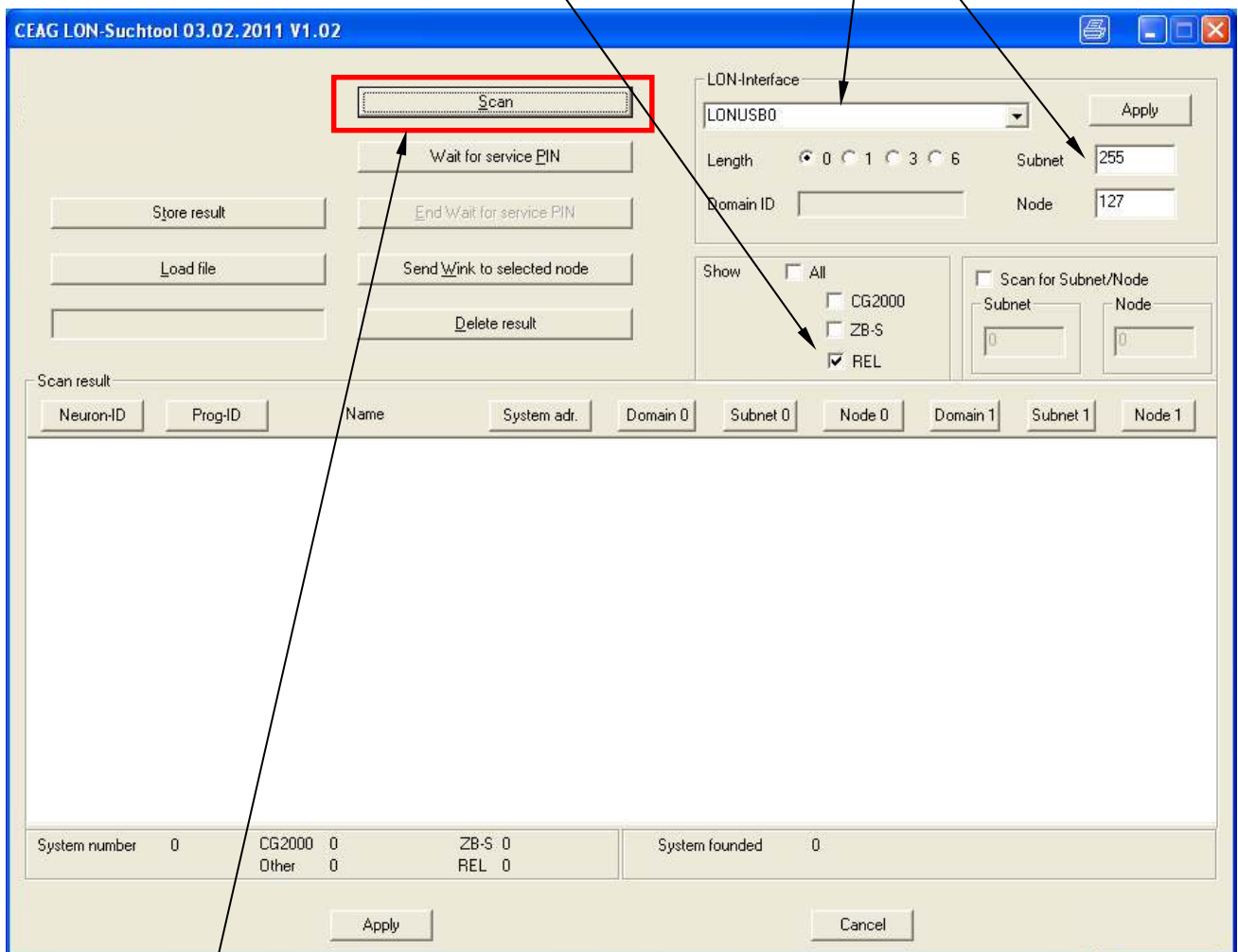
Please note: with use of a CG-S/USB interface box:

the new search tool only functions with the CG-S/USB interface box with blue end caps.

The CEAG search tool opens in a new window

1. The LON interface must be set to 'LONxxx0', e.g. with LONUSB to LONUSB0, according to which interface is used. In the example below with LONIP, the interface must therefore be set to LONIP0.
The length must be set to 0, the subnet to a number between 1 and 255, the node to between 1 and 127
-Save these settings by clicking on 'Accept'.

2. 'REL' must be activated as display

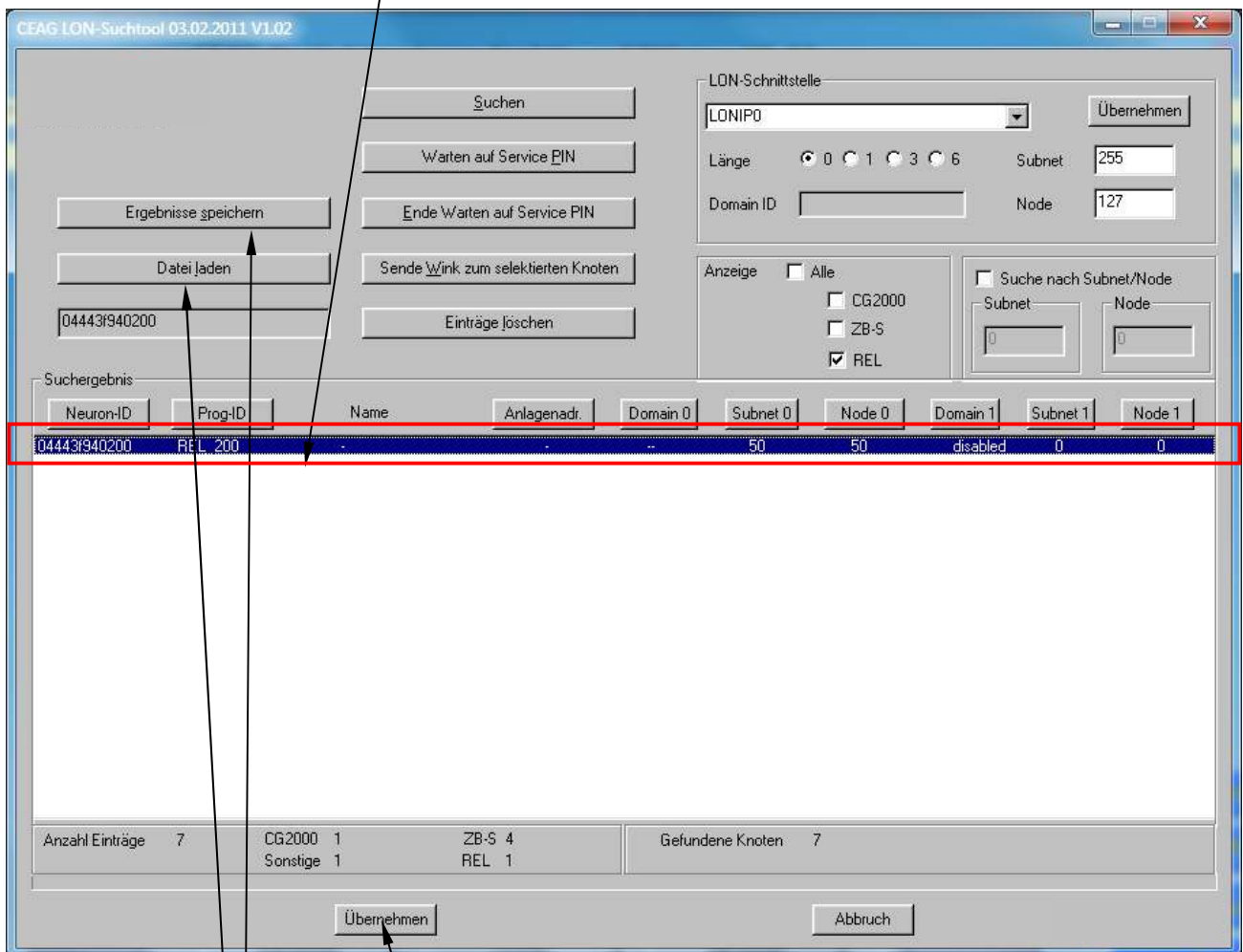


The network scan can now be started with 'Search'. With correct bus installation, all I/O modules found are now listed (next screen)

The network scan may take some minutes according to the quantity of installed modules.

All I/O modules found are specified with the Neuron ID in the 'search results' list.

The required I/O module with the Neuron ID must now be selected; this is then displayed marked blue.



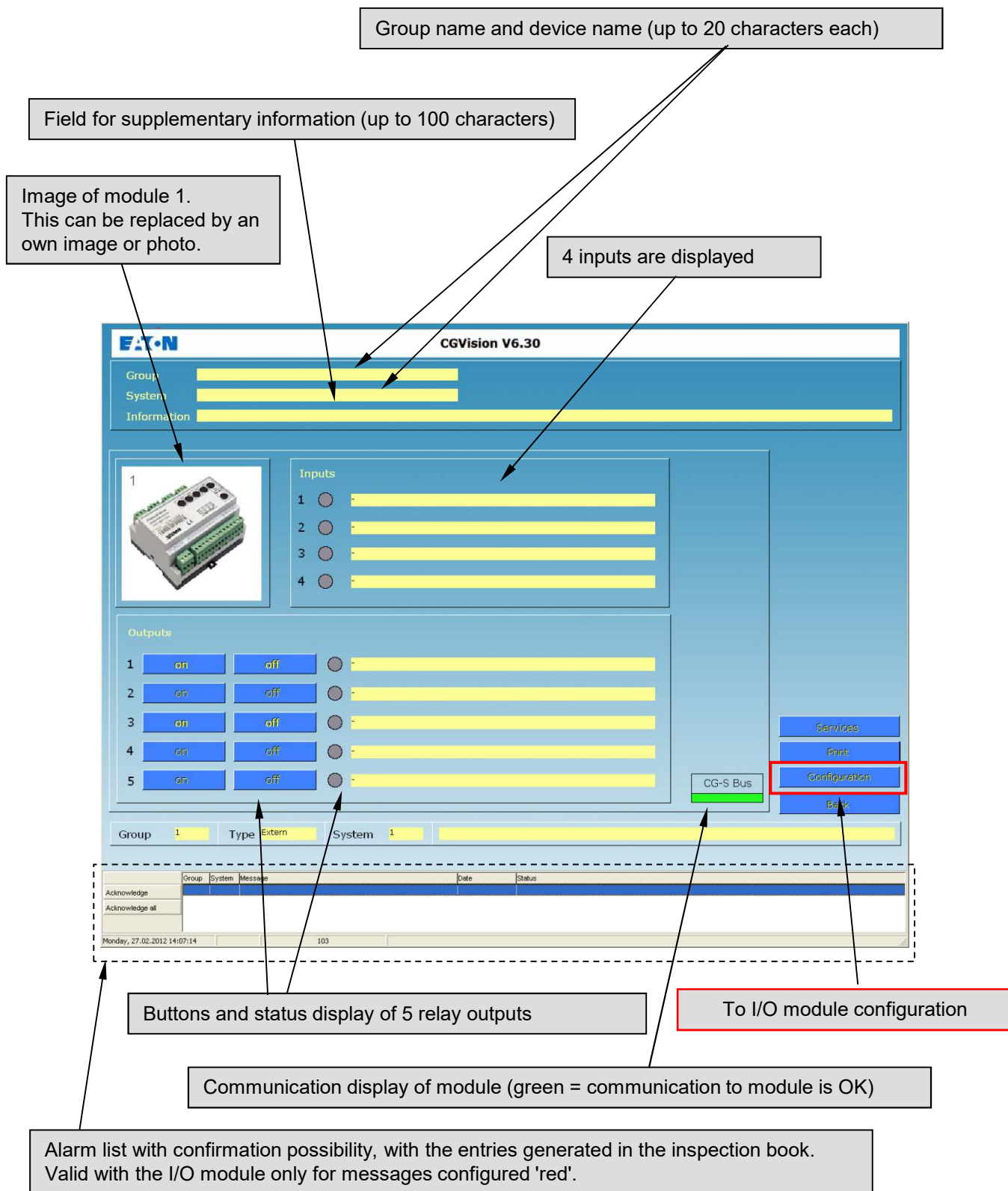
'Accept' automatically copies the NeuronID into the device configuration (next screen)

Because (according to the number of devices) the network scan may take some minutes, it is possible to save this result locally via "Save results". With the next module, the result can be more quickly loaded via 'Open file', instead of a network scan.

The Neuron-ID is now automatically transferred for the module. By clicking on 'Accept' a new device can now be added in a similar way. When all I/O modules are added to this group, clicking on 'OK' saves all changes. A CGVision restart then follows.

After the CGVision restart the added devices are displayed with type designation in the assigned button. This button is now active, and after the first start does not display a current status because the inputs/outputs have not yet been configured. By clicking the group button the next screen opens: 'Device screen' .

13.2.3 Structure of the device screen:



13.2.4 I/O module configuration:

The screenshot shows the 'IO modul (Group 01 / System 01)' configuration window. It includes fields for Name and Information, an 'Input' table with columns for Name, Active, and Colour, and a 'Relay' section with five entries. Callouts provide details on character limits, activation, active states, and colour assignments.

Device name (up to 20 characters)

Field for supplementary information (up to 100 characters)

Activation of inputs 1 to 4

Name of inputs (max. 20 characters each)

Specification when the input is 'active'
Low = active at 0V
High = active at 24V

Colour assignment of inputs, e.g.:
 Green = operation
 Test is running = yellow
 Fault = red

Input	Name	Active	Colour
1	Operation	high	green
2	function test activ	high	yellow
3	Failure prio.1	low	red
4	Failure prio.2	low	red

Relay

Relay	Name
1	Start function test
2	Block device
3	light circuit 1
4	light circuit 2
5	light circuit 3

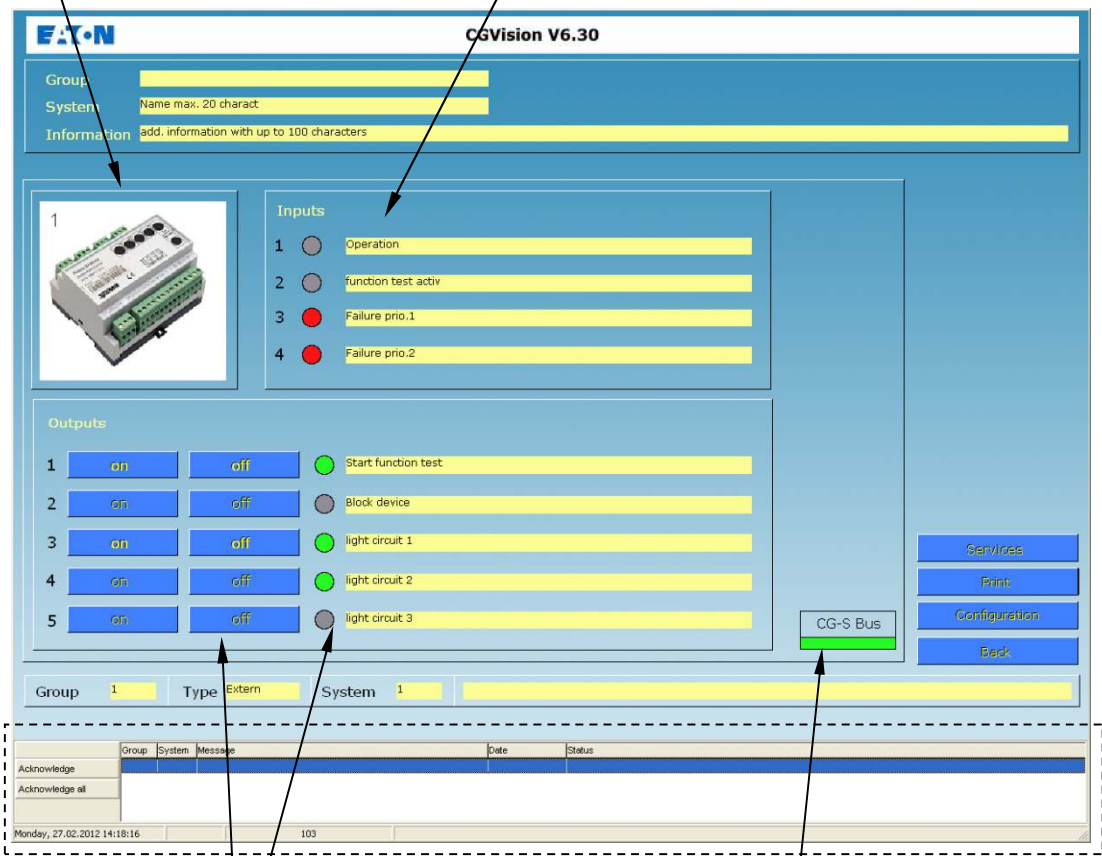
Configuration of 5 relay outputs with text assignment

Note: entries assigned red: with events entries are generated in the inspection book, with module number, module name, date and time stamp

13.2.5 I/O module (external) in operation

The image of the module 1-32 in the directory **C:\Programs\ceag\CGVision\BITMAPS** can be replaced with any image, e.g. a photo.
 Module 1-32 = Extern1.bmp to Extern32.bmp
 Format = .bmp
 Size = 75 pixels

Example of input conditions:
 - Device in operation
 - No FT active
 - Fault prio.1 is active
 - No fault prio.2



Buttons and status display of 5 relay outputs
 Relay 1 and relay 4 = active

Communication display of module (green = communication to module is OK)

13.3 Monitoring with the I/O ethernet module

13.3.1 General information about the I/O ethernet module

The I/O ethernet module has 8 digital inputs (24V) and 7 relay outputs (max. 24V/ AC, 1A). Connection to CGVision is via the LAN, meaning it can be connected in an existing ethernet.

Via the digital inputs or relay outputs it is possible in CGVision to set off up to 8 control commands (e.g. start test) and monitor up to 5 operating states (e.g. fault messages). The states of the digital inputs can be configured in three colours in CGVision (green/yellow/red) to display an operating condition (operation = green) or a special operation (e.g. battery operation = yellow). Conditions assigned red, e.g. for displaying common system faults, produce an entry into the inspection book of the group.

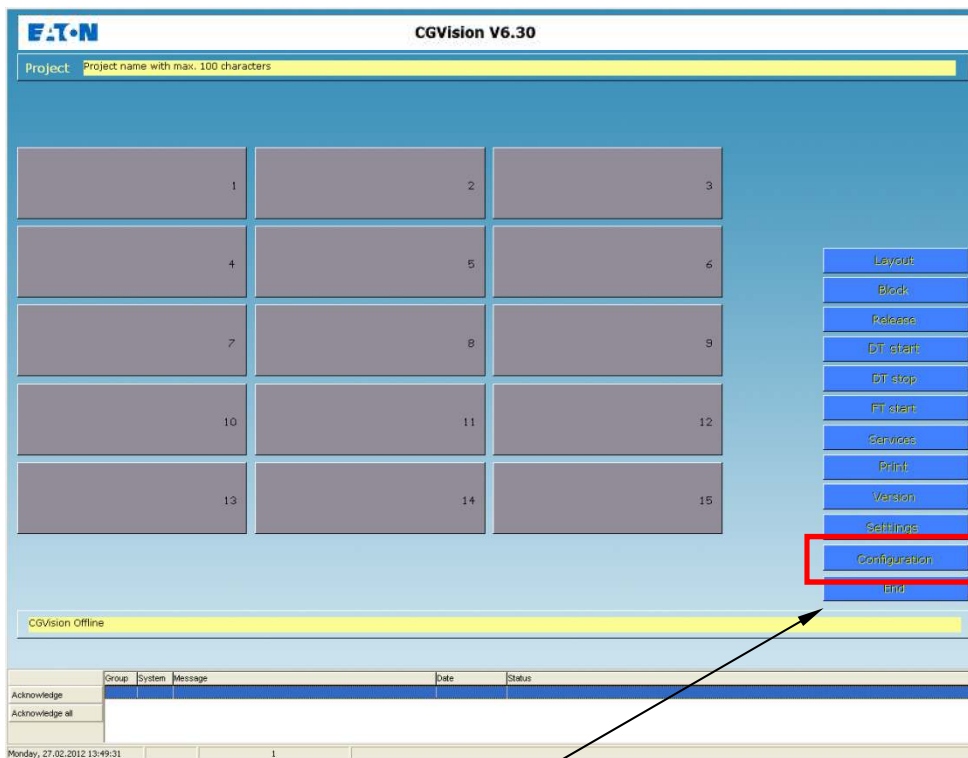
A maximum of 15 groups with up to 32 modules per group can be created in CGVision.

In addition the I/O ethernet module has an integrated web server enabling it to visualise in parallel to CGVision all functions via Web with a common web browser. Please consult the instruction manual of the I/O ethernet module for more information.

Figure: I/O ethernet module



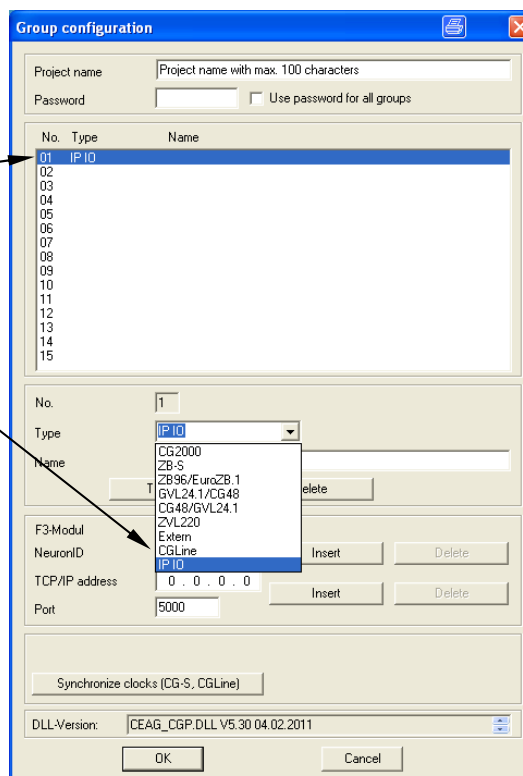
13.3.2 Creating an I/O ethernet module device group

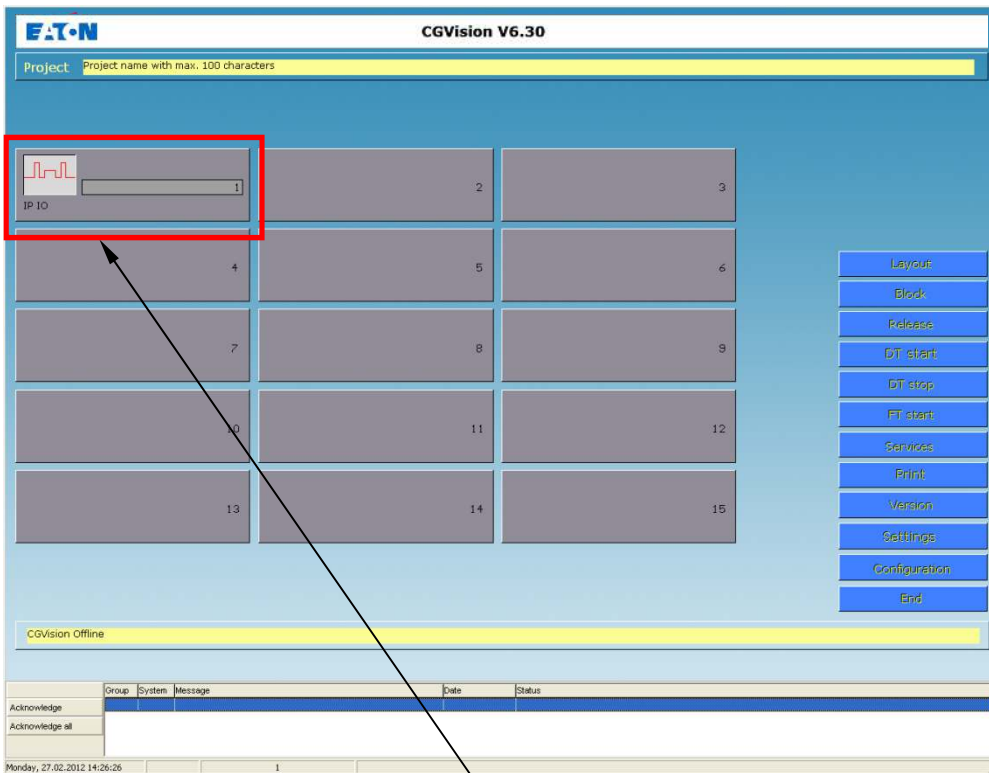


A new device family can be created via the Configuration menu, in this case 'IP IO'.

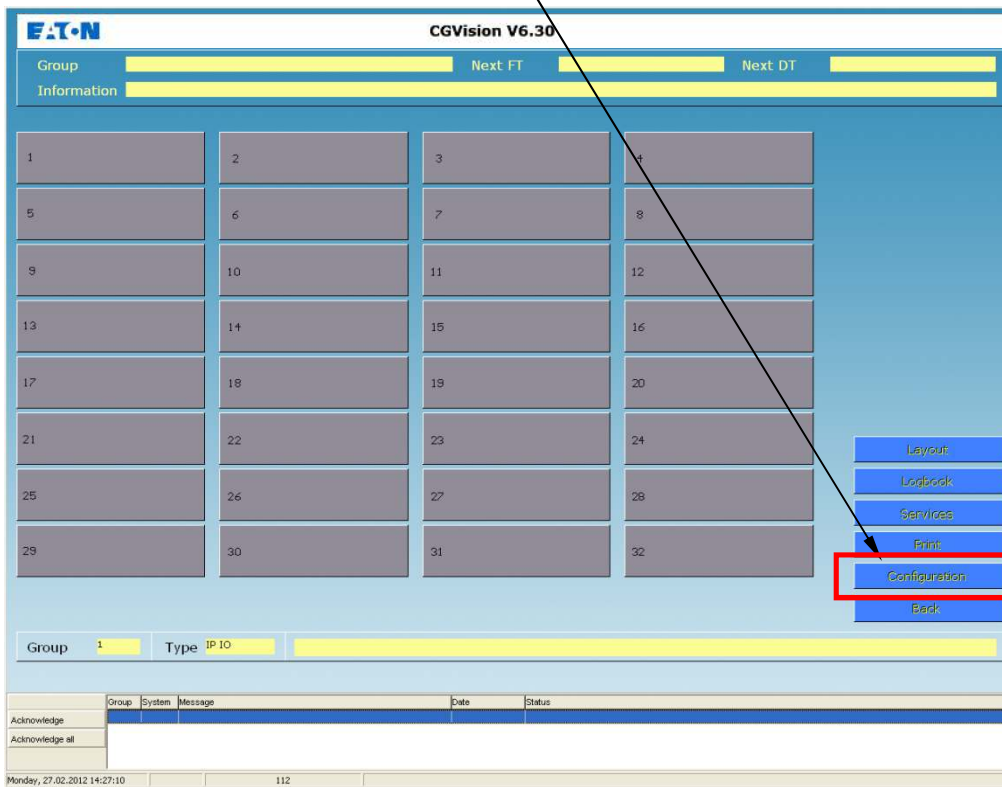
The group configuration menu then appears:

- In the group selection window a system group can be defined by selecting the corresponding group number (marked blue)
- In the 'Type' drop-down menu the system type 'IP IO' can be selected and a system group name can be assigned
- Confirm with 'Accept', define further groups or exit with 'OK'





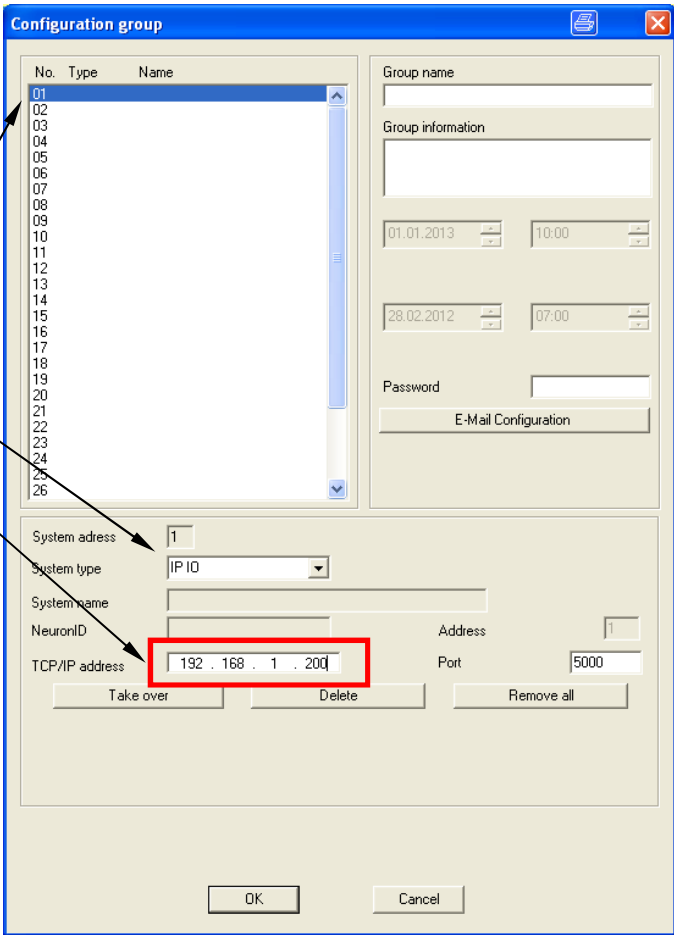
The system group has now been added. If this group is clicked on, the system group screen is displayed.
Up to 32 devices can now be created via the 'Configuration' menu



The system configuration menu then appears:

- a) In the device selection window the I/O module can now be assigned any logical address (marked blue)
- b) 'IP IO' system type
- c) The IP address of the module must now be entered

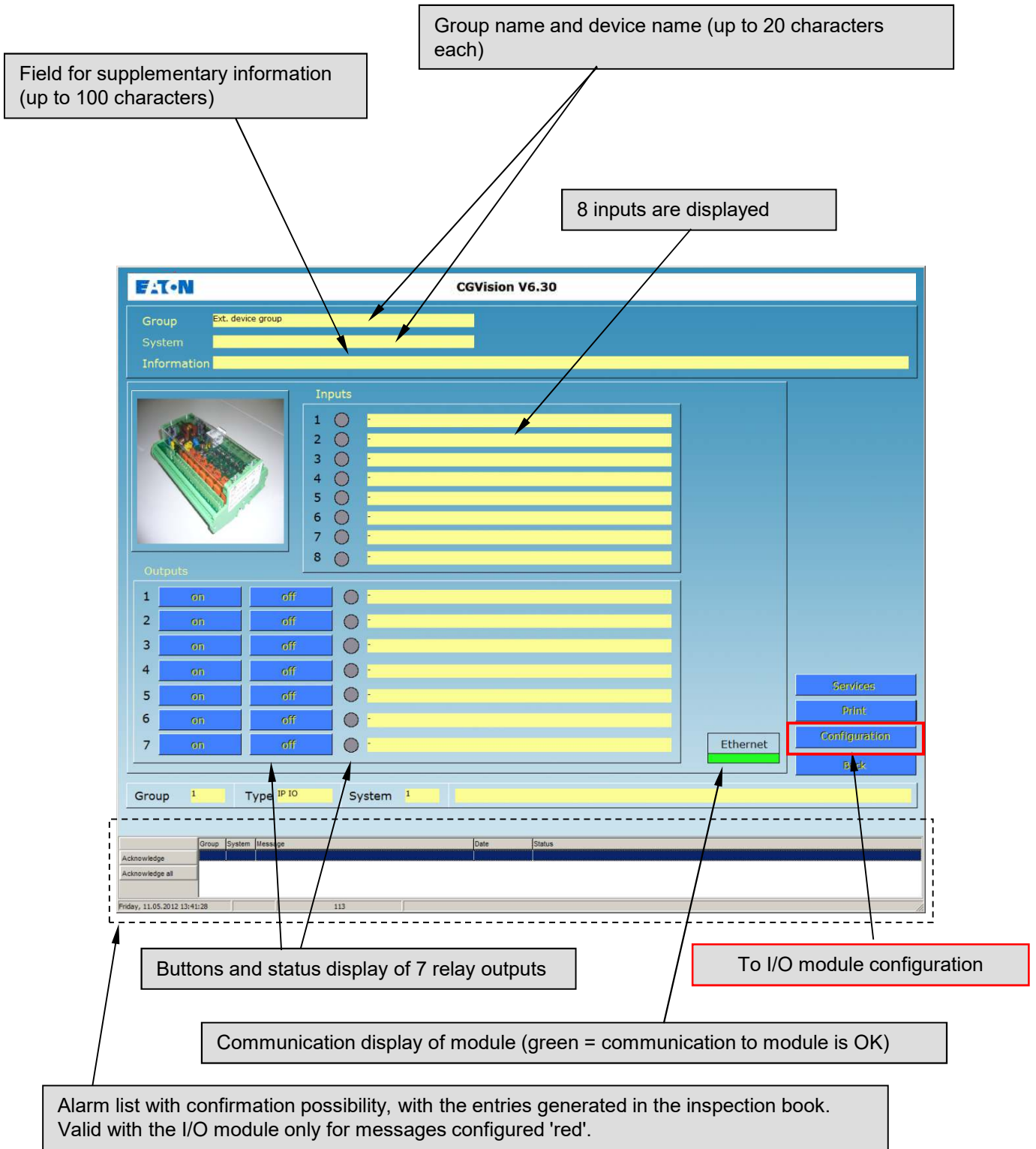
Confirm with 'Accept', add further groups in the same way or exit with 'OK'
Automatic restarting of CGVision is now required.



After the CGVision restart the added devices are displayed in the assigned button. This button is now active, and after the first start does not display a current status because the inputs/outputs have not yet been configured.
 By clicking the group button the next screen opens: 'Device screen'.



13.3.3 Structure of the device screen:



13.3.4 I/O module configuration:

Device name (up to 20 characters)

Field for supplementary information (up to 100 characters)

Activation of inputs 1 to 8

Name of inputs (max. 20 characters each)

Specification when the input is 'active'
Low = active at 0V
High = active at 24V

Colour assignment of inputs, e.g.:
 Green = operation
 Test is running = yellow
 Fault = red

Input	Name	Active	Colour
1	Operation	high	green
2	Functiontest activ	high	yellow
3	Durationtest activ	high	yellow
4	Device is blocked	high	red
5	Failure Priority 1	low	red
6	Failure Priority 2	low	red
7	Charging failure	high	red
8	Battery failure	high	red

Relay	Name	Colour
1	Start function test	yellow
2	Start duration test	yellow
3	Block device	red
4	Light circuit 1	yellow
5	Light circuit 2	yellow
6	Manual reset	green
7	Reset	green

Configuration of 7 relay outputs with text assignment

Colour assignment of outputs, e.g.:
 Start test = yellow
 Faults = red etc.

Note: entries assigned red: with events entries are generated in the inspection book, with module number, module name, date and time stamp

13.3.5 I/O ethernet module in operation

Example of input conditions:

- Device in operation
- No function test or duration test active
- Fault prio.1 is active
- No fault prio.2
- No charging fault or battery fault

The screenshot displays the Eaton CGVision V6.30 interface. At the top, there are input fields for 'Group' (Ext. device group), 'System', and 'Information'. Below this is a hardware image of the I/O module. The 'Inputs' section contains 8 items, each with a status indicator: 1 (Operation, grey), 2 (Functiontest activ, grey), 3 (Durationtest activ, grey), 4 (Device is blocked, grey), 5 (Failure Priority 1, red), 6 (Failure Priority 2, red), 7 (Charging failure, grey), and 8 (Battery failure, red). The 'Outputs' section contains 7 items, each with two buttons ('on' and 'off') and a status indicator: 1 (Start function test, grey), 2 (Start duration test, grey), 3 (Block device, red), 4 (Light circuit 1, yellow), 5 (Light circuit 2, grey), 6 (Manual reset, green), and 7 (Reset, grey). Below the outputs is a table with columns for Group, System, Message, Date, and Status. The 'Ethernet' status is shown as a green bar. A message log at the bottom shows a message from Friday, 11.05.2012 14:27:24 with ID 113.

Buttons and status display of 7 relay outputs
Relay 4 and relay 6 = active

Communication display of module (green = communication to module is OK)



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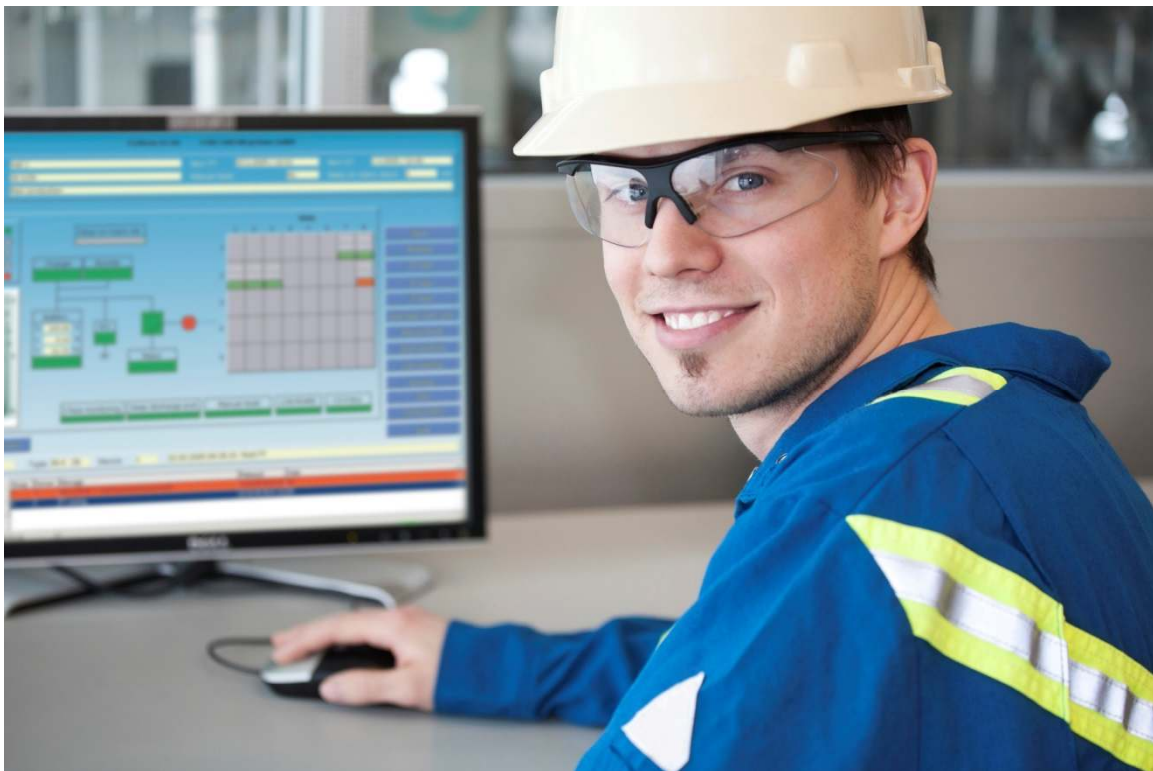
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Section 14
CGVision e-mail function

14 CGVision e-mail function

14.1 CGVision e-mail function information

CGVision contains a mail program (mail client) enabling the sending of e-mails to up to 10 e-mail recipients per system group. The sending of e-mails with status information for the devices in a system group can be assigned to any events, e.g. with charging faults for example.

Possible events for the sending of e-mails:

- Battery operation
- Mains failure (at the device)
- Total discharge protection active
- Communication fault (between CGVision and device)
- Charging fault
- Battery fault
- ISO fault (isolation fault, battery + or – with earth conductor)
- Circuit fault (composite errors in a circuit incl. luminaire fault)

It is also possible to be sent a mail at settable intervals (weekday and time) containing the current status of the devices in a group.

14.2 Activating the e-mail function

To use the e-mail function this must be first be activated in the Settings menu. In addition, the basic settings for e-mail functionality are defined in this menu. The settings are applied in the Settings menu in the 'E-Mail' tab:

The screenshot shows the 'Settings' dialog box with the 'E-Mail' tab selected. The 'E-Mail' tab is highlighted with a red box. The dialog contains the following fields and options:

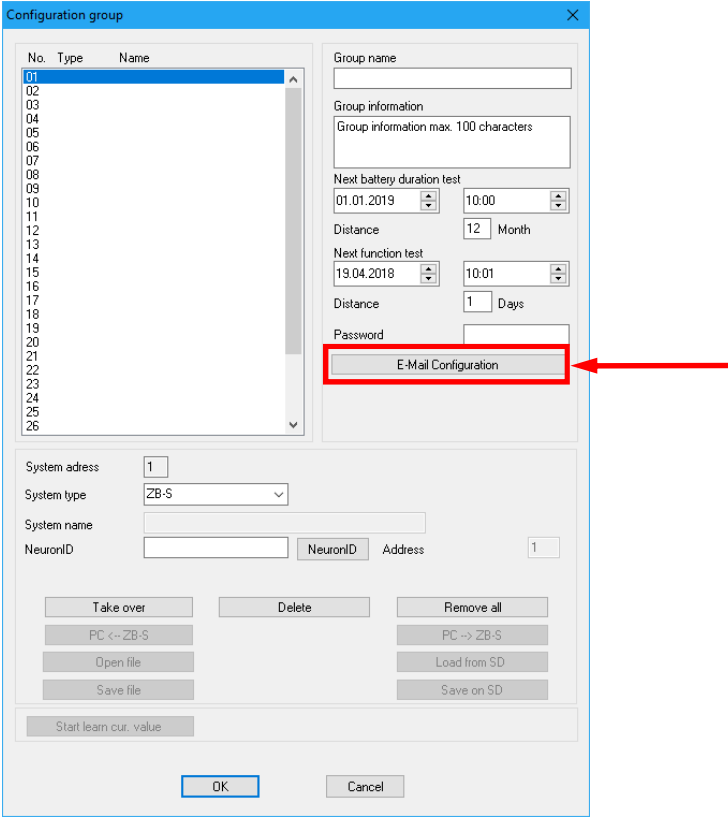
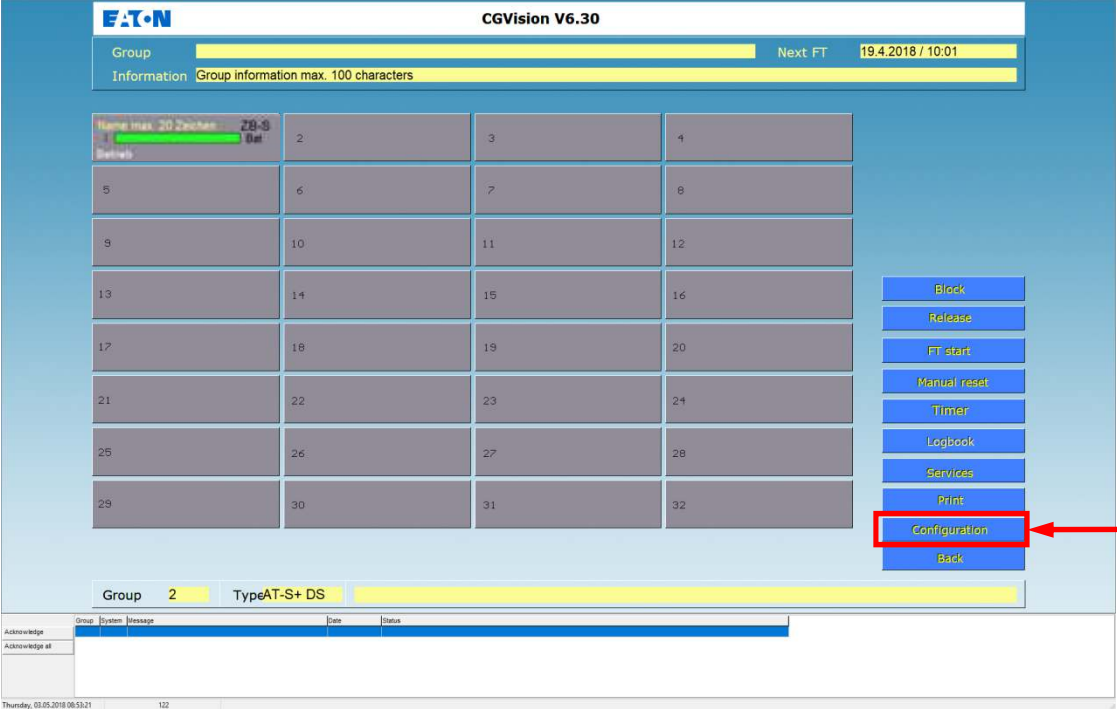
- Settings:** A checked checkbox.
- SMTP Server:** A text input field.
- Port:** A text input field containing '25'.
- Sender:** A text input field.
- Authentication:** An unchecked checkbox.
- User:** A text input field.
- Password:** A text input field.
- SSL-Typ:** A dropdown menu set to 'None'.
- Status mail attachment:** A text input field with a browse button ('...').

Callout boxes provide the following information:

- Activation of the E-mail function:** Points to the 'Settings' checkbox.
- IP address of the mail server:** Points to the 'SMTP Server' field.
- Name of the sender. This appears in the head of the E-mail:** Points to the 'Sender' field. A note below states: "Note: some mail servers only accept mail addresses with a @ symbol."
- If the mail server requires authentication, user name and password must be entered here.** Points to the 'Authentication', 'User', and 'Password' fields.
- When sending a status mail, a mail attachment can be selected here if desired.** Points to the 'Status mail attachment' field and its browse button.

14.3 E-Mail function in a device group

To activate and configure the e-mail function for a device group, the menu 'E-mail settings' must be opened via the 'Configuration' menu in the device group screen.



The following e-mail settings menu opens:

In the e-mail configuration menu of a device group it is possible to assign various events for e-mail sending to up to 10 e-mail recipients.

1. Activation of the e-mail function for this device group

2. Selection of up to 10 e-mail recipients

If an attachment is desired for the 'Group status' e-mail the checkbox must be activated here. The attachment can be selected in the E-mail basic settings menu

A test mail with random text can be sent to test e-mail functionality

E-Mail Group 01

E-Mail receiver
 E-Mail enabled Group 01
 Attach file to status mail

Recipient 1
 Recipient 2
 Recipient 3
 Recipient 4
 Recipient 5
 Recipient 6
 Recipient 7
 Recipient 8
 Recipient 9
 Recipient 10

Test mail Text test mail

E-Mail configuration

Recipient	1	2	3	4	5	6	7	8	9	10
Battery operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mains failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Deep discharge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Communication failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Charging failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Battery failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ISO-failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Circuit failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Group state	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Program start	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Set up time group state

Time: 10:00:00

Days: Su Mo Tu We Th Fr Sa

OK Cancel

3. Selection of various events for up to 10 e-mail recipients

With 'Group Status' it is possible to send an e-mail with the current group status according to a predefined time (weekday/time). An attachment can also be sent if this option has been activated and an attachment has been selected in the menu 'E-mail' basic settings.

14.4 Example of an e-mail configuration

In this example 3 e-mail recipients have been entered:

E-mail function for this group activated

3 recipients entered

For the group status, a selected file is attached

E-Mail Group 01
✕

E-Mail receiver

E-Mail enabled Group 01

Attach file to status mail

Recipient 1: <input type="text" value="Sample1@eaton.com"/>	Recipient 6: <input type="text"/>
Recipient 2: <input type="text" value="Sample2@eaton.com"/>	Recipient 7: <input type="text"/>
Recipient 3: <input type="text" value="Sample3@eaton.com"/>	Recipient 8: <input type="text"/>
Recipient 4: <input type="text" value="Sample4@eaton.com"/>	Recipient 9: <input type="text"/>
Recipient 5: <input type="text"/>	Recipient 10: <input type="text"/>

Text test mail

E-Mail configuration

Recipient	1	2	3	4	5	6	7	8	9	10
Battery operation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mains failure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Deep discharge	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Communication failure	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Charging failure	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Battery failure	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ISO-failure	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Circuit failure	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Group state	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Program start	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

OK

Cancel

Recipient 1 receives a mail upon:

- Battery operation of a device
- Mains failure at a device
- A mail with current group status of all devices in an attachment every Monday and Friday

Recipient 2 receives a mail upon:

- Circuit fault (also includes luminaire faults)

Recipient 3 receives a mail with all selected faults. Additionally a status mail with current group status of all devices with attachment every Monday and Friday at 8 a.m.

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Section 15
Layout programming

15 Layout programming

15.1 Layout programming of devices

15.1.1 General information on layout programming of devices

Note:

The function of layout programming for CGVision requires an enabling license in the form of a dongle for a USB port. This is optionally available. The configuration buttons for layout programming are only displayed when after starting the programme CGVision detects a valid dongle.

The license for layout programming is valid for the devices and luminaire layout programming.

With layout programming for devices it is possible to display the various systems (ZB-S, ZB96 etc.) in the form of an aerial view, area plan or layout plan. It is possible to:

1. Display the device groups in the main group screen in one screen. This option is only recommended when devices within the device groups are spatially together.

2. Display the devices of a group in one screen.

The devices are displayed in the aerial view/layout according to state, meaning device in normal operation = green, device being tested = yellow and faulty device = red.

The aerial views/layout plans must be in .bmp format with a max. size of 1024 x 768 pixels. AutoCAD files (to AutoCAD 2015) in .dwg or .dxf format can also be imported. Layers not required can be hidden. Subsequent modifications to the layout programming can be simply carried out at any time (e.g. moving of devices in the layout)

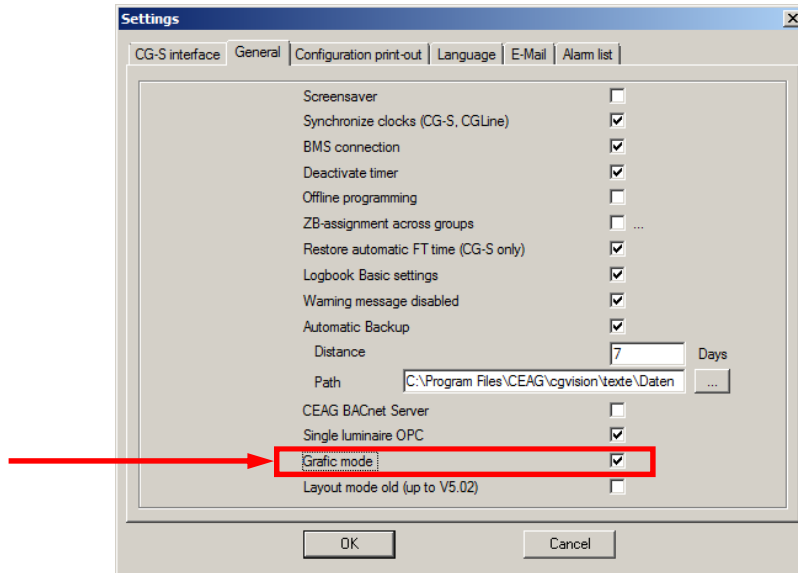
Example of an aerial view display of ZB-S devices:

Gruppe	Anlage	Meldung	Datum	Status	
Bestätigen	1	Wollichstörung	12.12.09 12:22:28	Ein	000000
Alle Bestätigen	1	Wollichstörung	12.12.09 12:22:28	Ein	000000

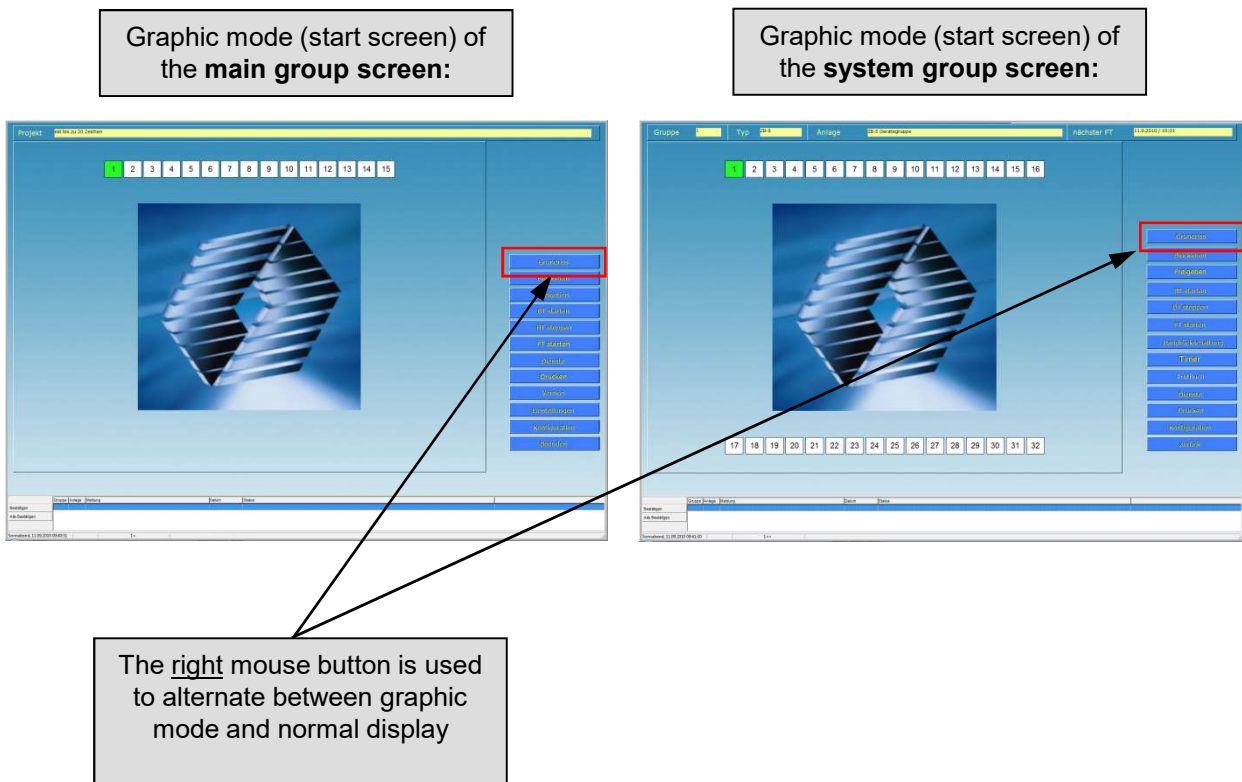
Sonnabend, 12.12.2009 12:22:28 01_00_0_0_00

15.1.2 Activating the layout programming for devices

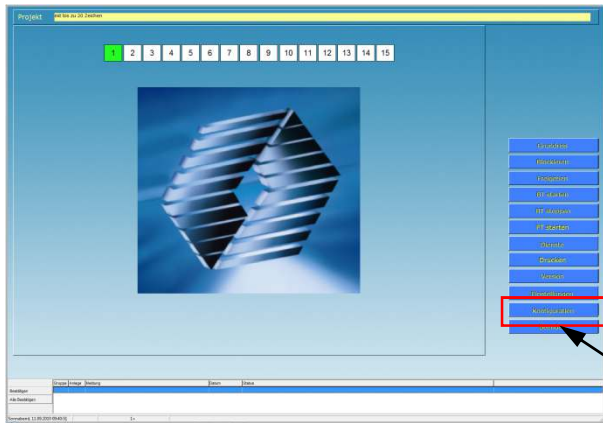
The function for layout programming for devices must firstly be activated in CGVision. This is implemented via the 'settings' menu in the main group screen, in the 'General' tab:



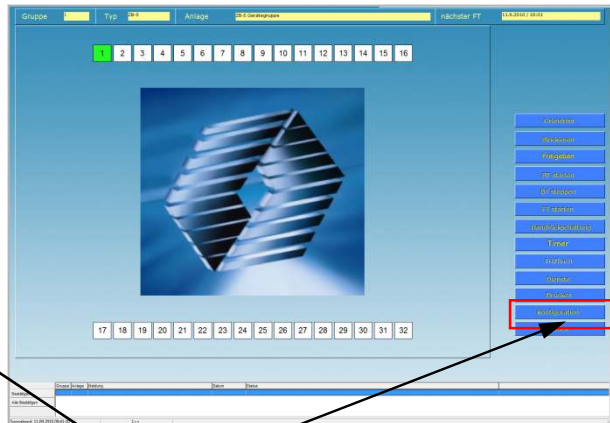
Graphic mode is now activated for the main group screen and the system group screens. The main group screen or system group screens are now displayed as graphics. You can alternate between graphic mode and classic display via the 'layout' button with the right mouse button:



Graphic mode (start screen) of the main group screen:

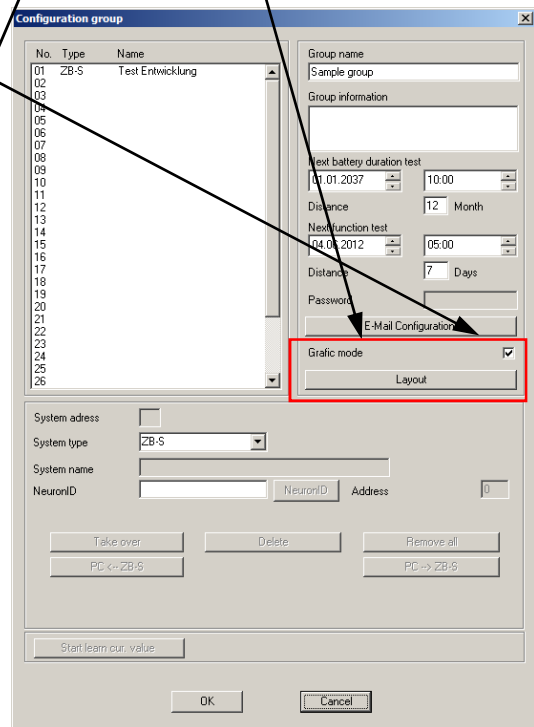
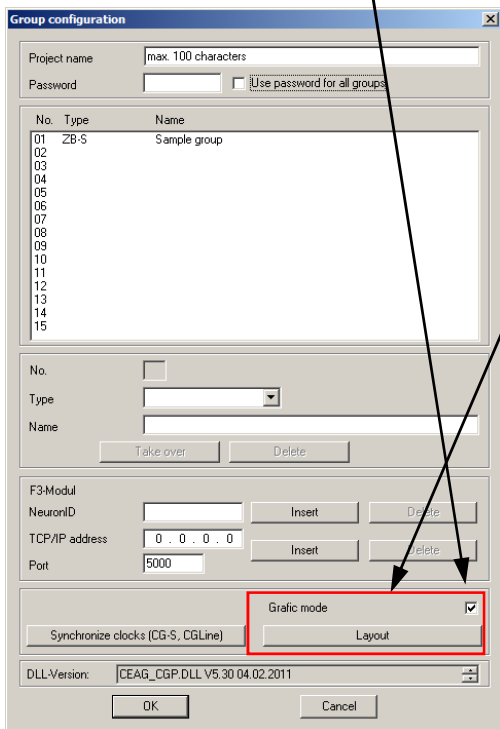


Graphic mode (start screen) of the system group screen:



Layout programming of the main group screen or the specific system groups is accessed via 'Configuration'.

The graphic mode in the main group screen or in the individual system group screens is deactivated by deactivating the checkbox.



To layout programming (graphics tool) of the main group screen

To layout programming (graphics tool) of the system group screen: (Example system group 1)

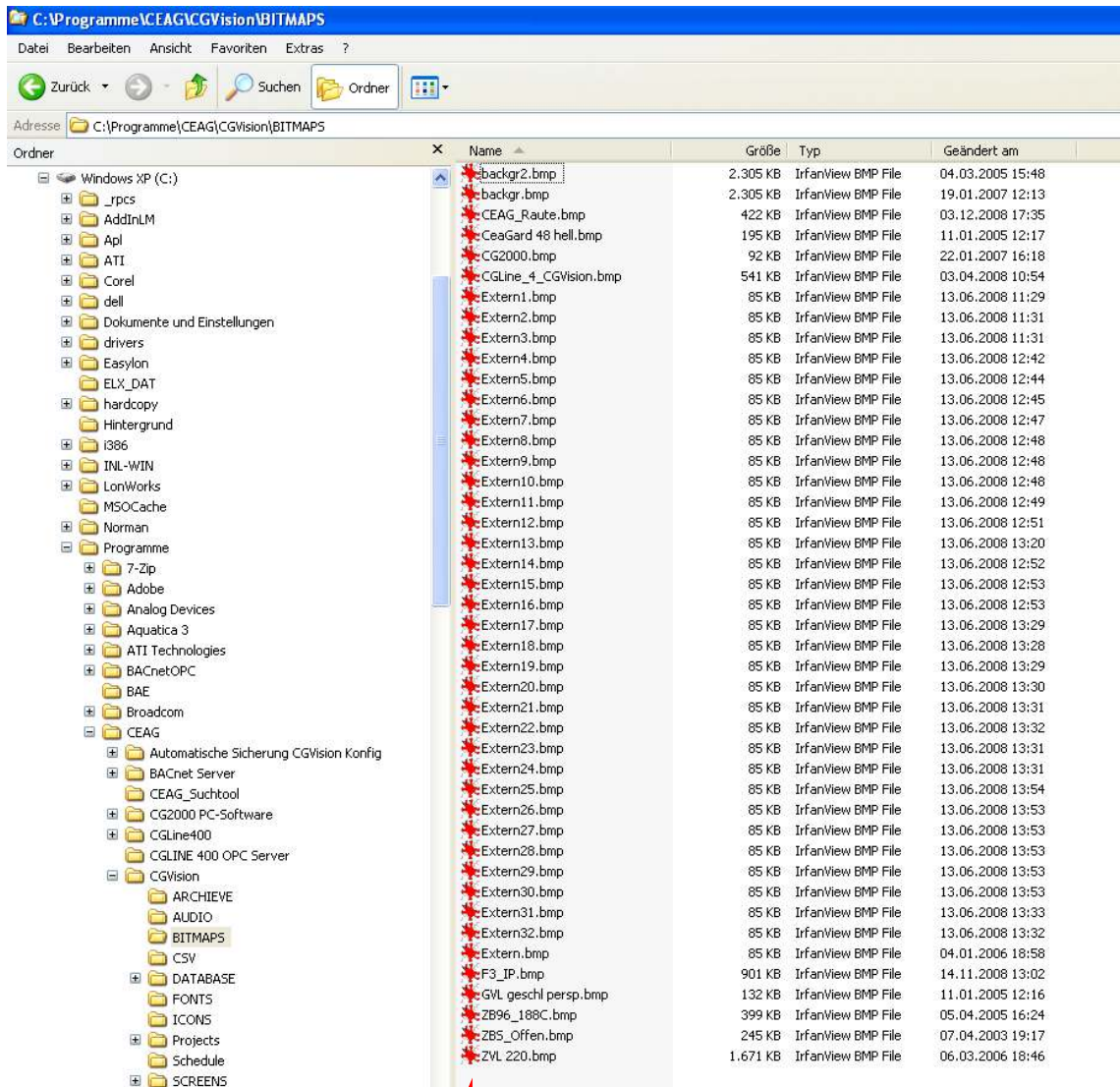
15.1.3 Layout programming for device groups in the main group screen

15.1.3.1 Layout programming for device groups with .bmp files

Layout images, site plans or aerial views in .bmp format can be used. These can have a max. of 1024 x 768 pixels. Conversions from other formats, for example .jpg, and in other sizes, for example 1280 x 1024, can be simply carried out with conventional graphic software programmes.

The images must be previously copied to the following folder:

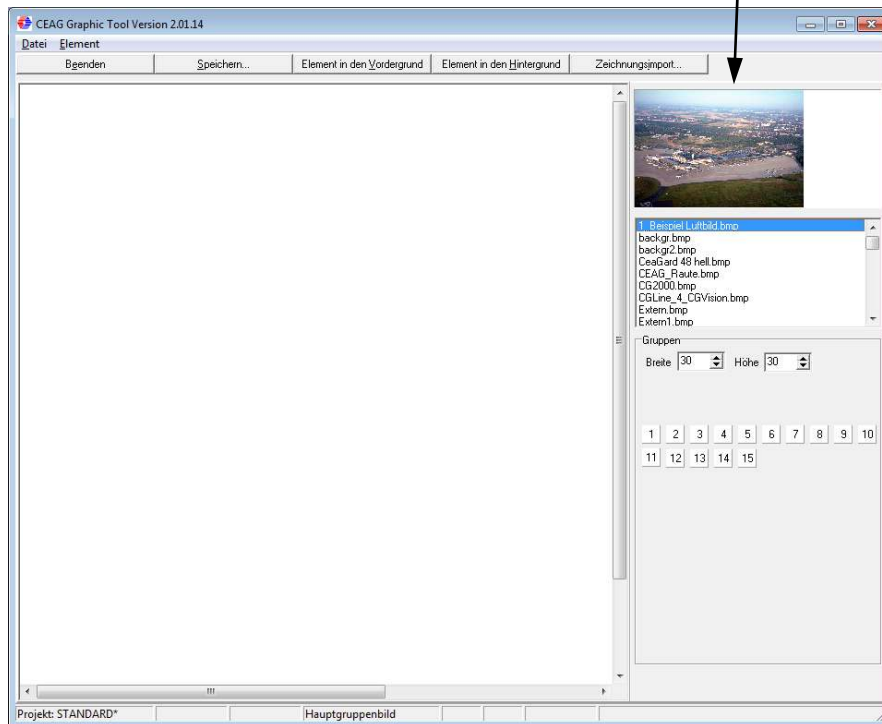
C:/Programme/CEAG/CGVSION/BITMAPS



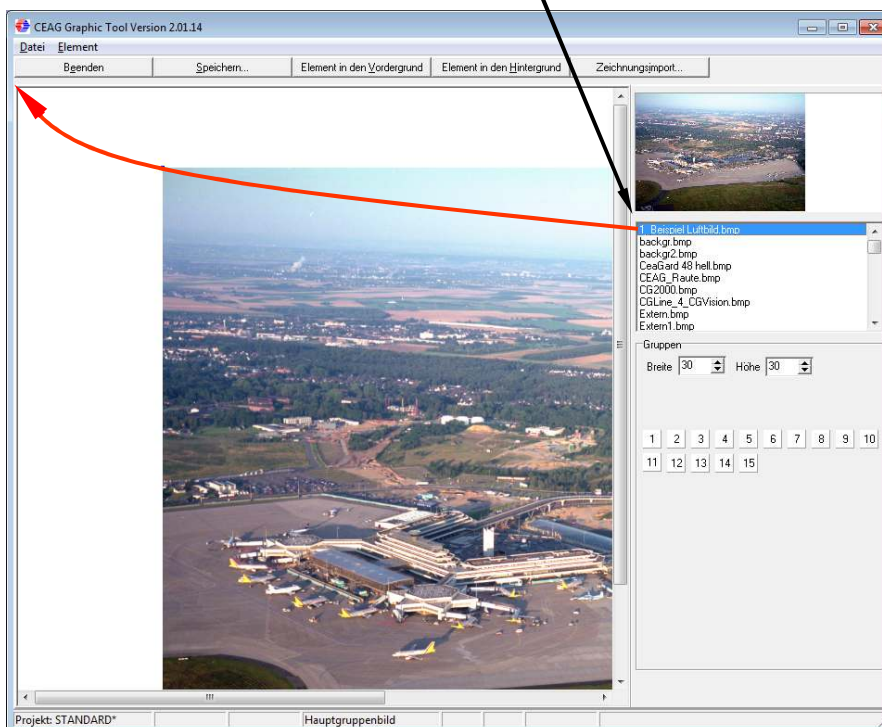
The existing images in this folder are the CGVision system files. These should not be deleted or moved.

Layout programming can begin after all images have been copied to the target folder. Supplements or modifications can be subsequently carried out at any time.

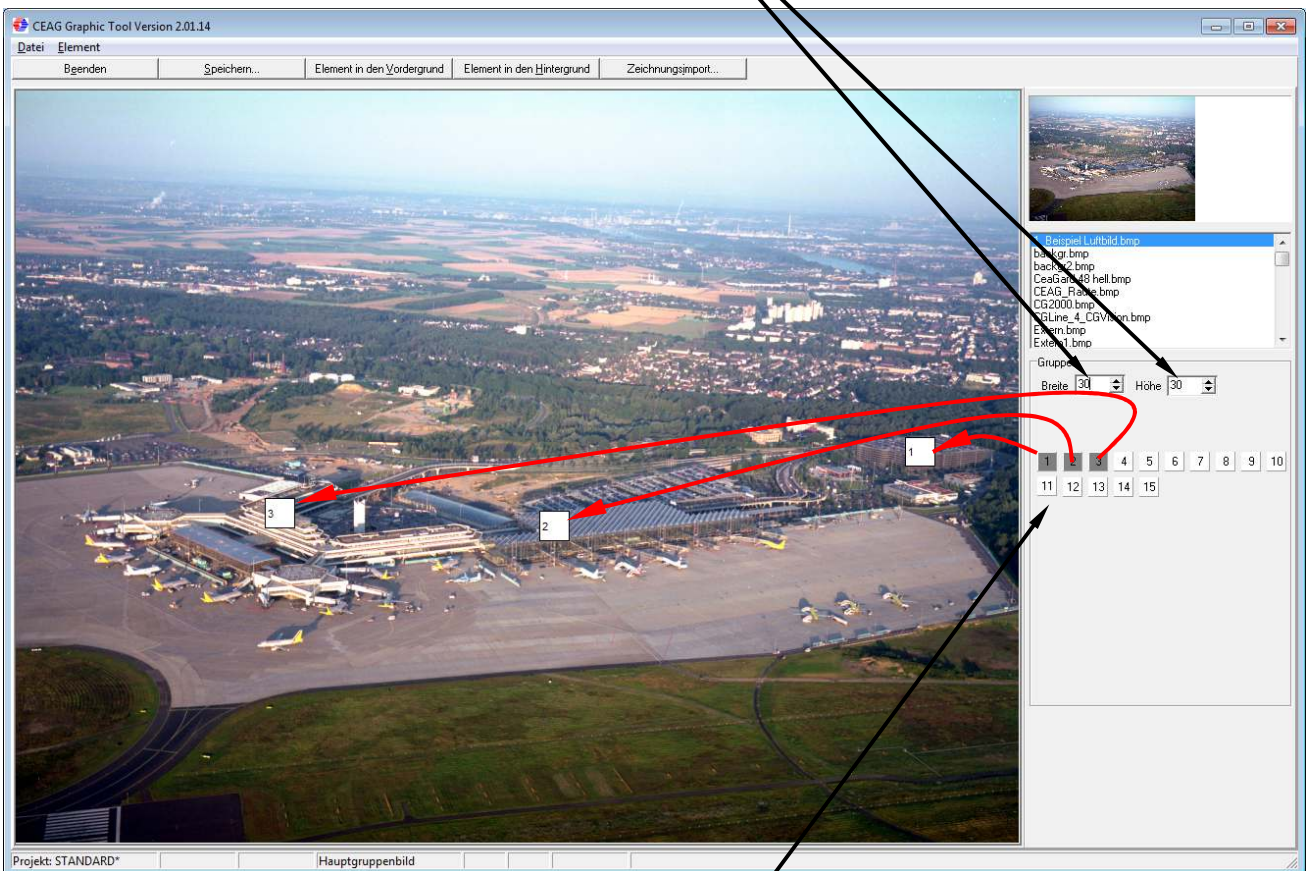
By clicking on 'Layout' in the configuration menu, the CEAG graphics programme opens for layout programming. The copied images appear in the selection list with preview:



After selecting the correct layout image, the image can be dragged into the top left corner of the formatted area by pressing the left mouse button (red line). Corrections can be carried out at any time by clicking anywhere on the layout (press and hold) and dragging the layout to the desired position.



Using the selection fields, the 'width' and 'height' of the groups can be set before positioning the system group in the aerial view to achieve optimal size for the corresponding layout template. This should be tested initially.



The system groups 1-15 can be dragged to suitable locations in the aerial view with the left mouse button

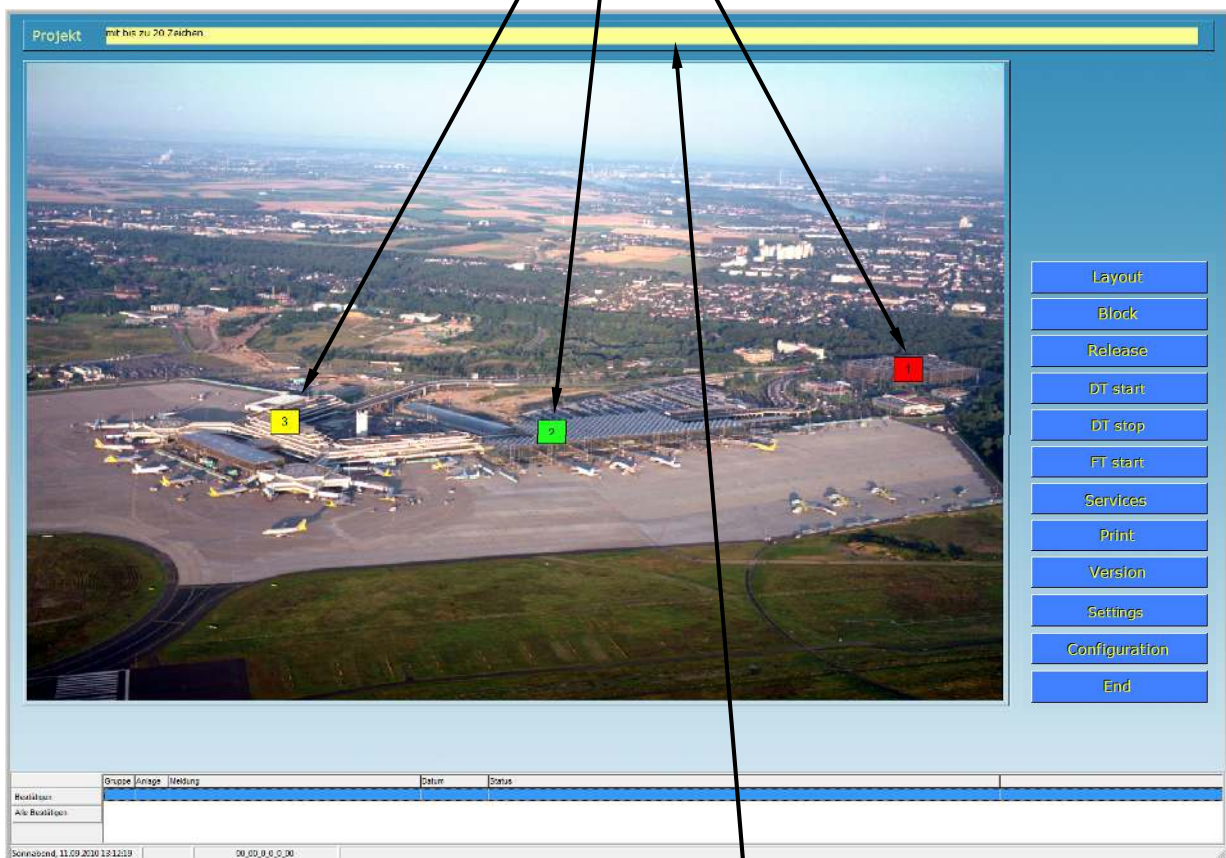
After successful positioning of all system groups, programming can be exited with 'Save' and 'Exit'. The main group screen is now displayed with the created graphic. The system groups display the status via colours, e.g.

Green = all devices in this group in normal operation

Yellow = at least one system in the group is undergoing function test or duration test

Red = at least one device in the group has a fault

If the system group is clicked on, the corresponding system group screen is displayed.

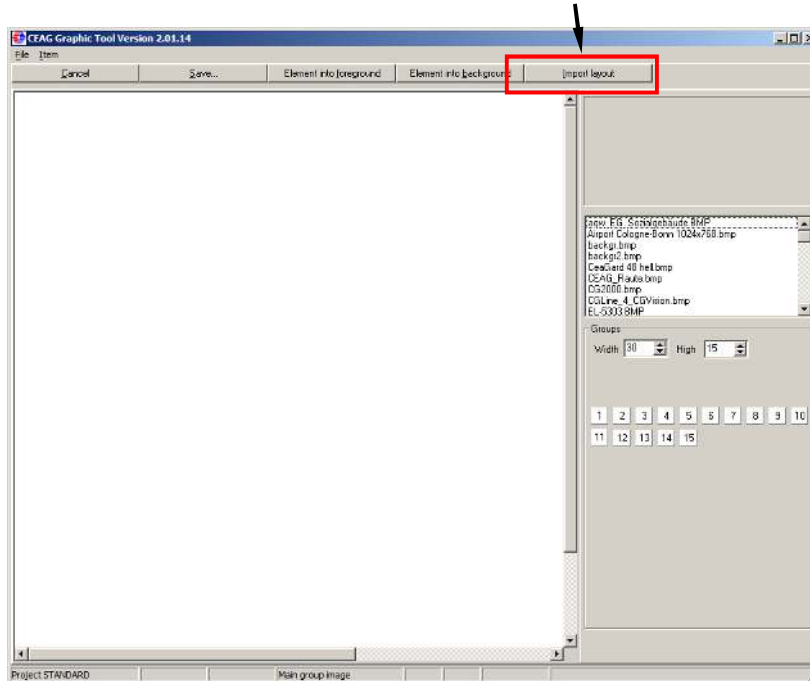


A better overview is achieved by using the explorer view (recommended) that can be started by clicking with the right mouse button on the yellow address bar. See also Section 3 – Structure and basic operation.

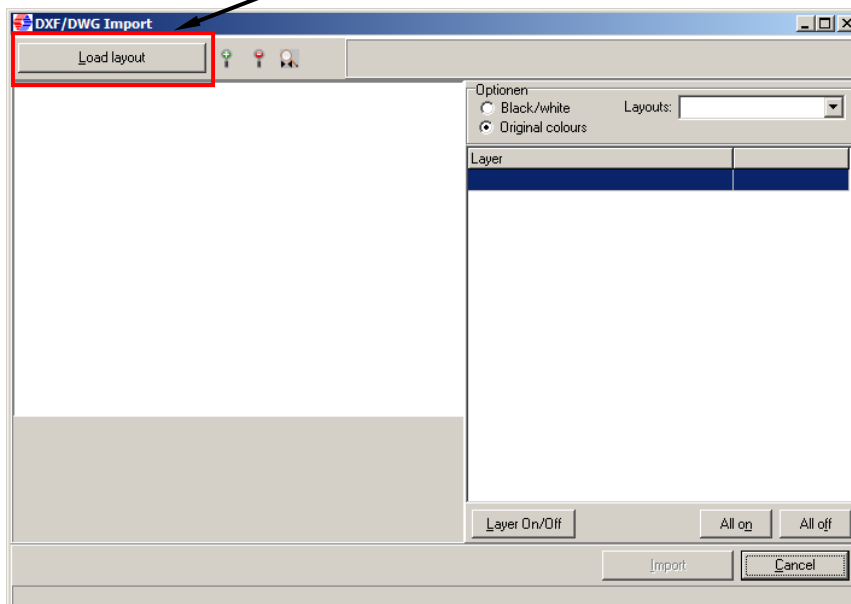
15.1.3.2 Layout programming for device groups via .dwg/.dxf import

Note: .dwg/.dxf files to AutoCAD 2015 are supported.

Instead of .bmp files, graphics such as site plans from an AutoCAD file in .dwg/.dxf format can be imported. Any part from the .dwg file can be created. Layers not required can be hidden. The import can be started with the graphics tool via the 'Drawing import' button:



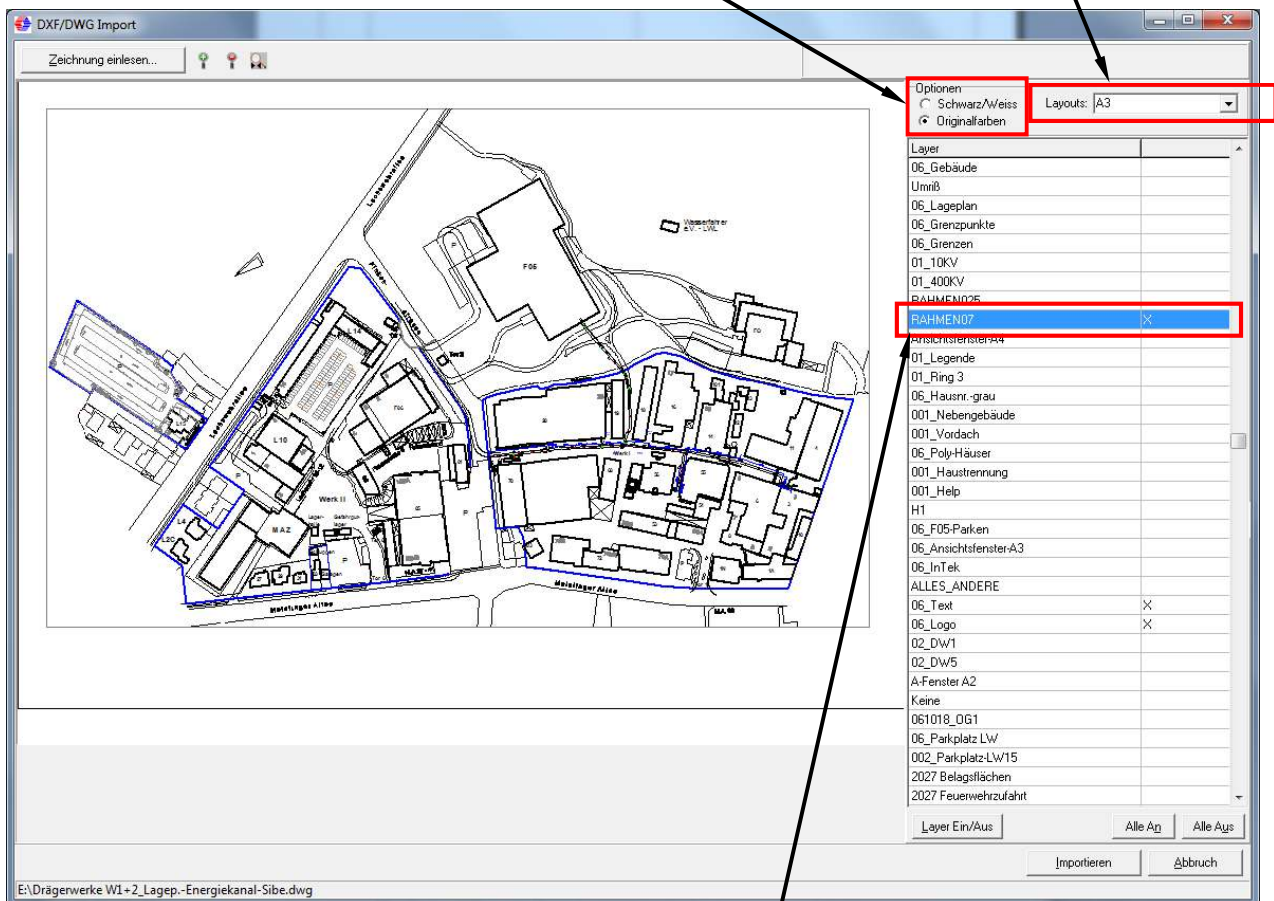
The DXF/DWG import tool opens. .dxf/dwg drawings can now be read in via 'Import drawing':



After selecting and opening the correct file, the drawing is displayed in the import tool in an overview.

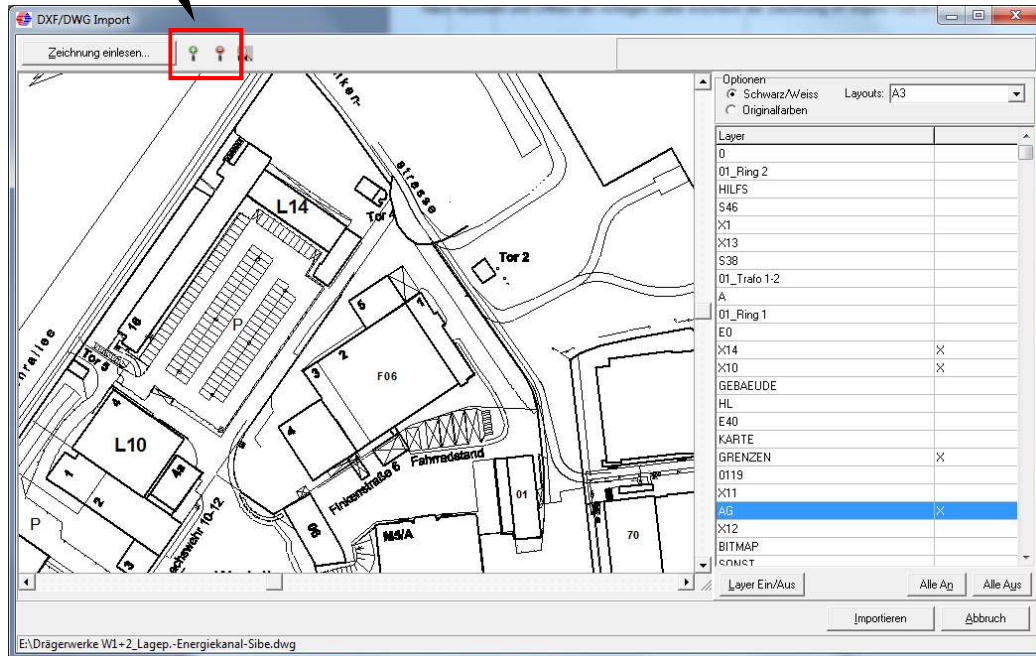
In the 'Layouts' selection field, a specific layout (if this exists) can be selected from the .dwg files.

Coloured layers can be rendered in black and white to clarify the display.

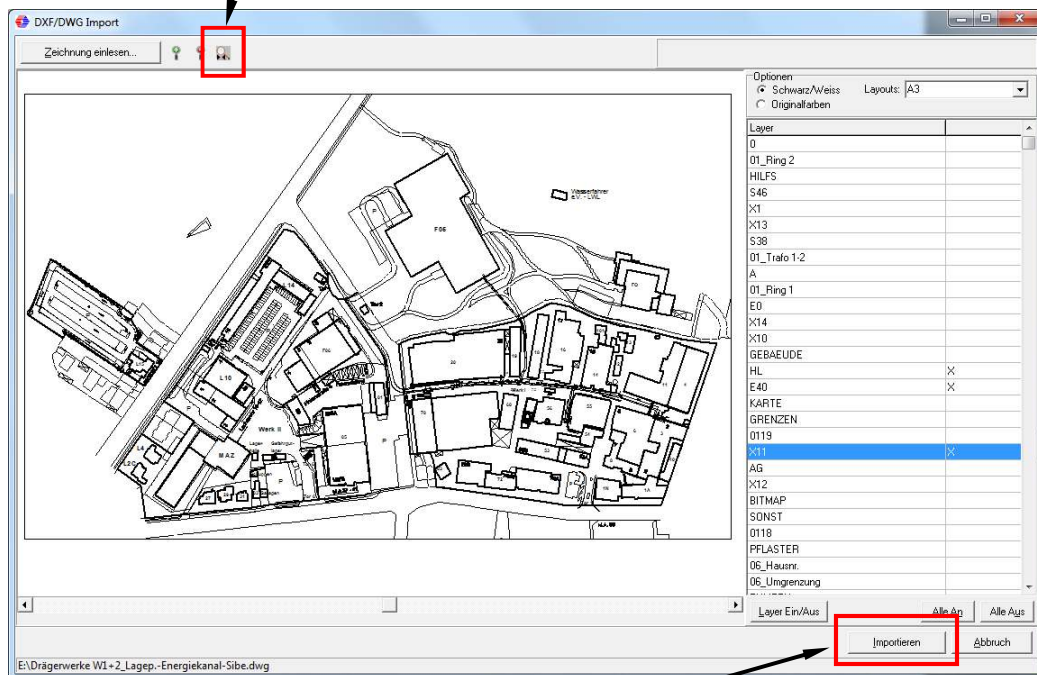


All available layers are listed in the area on the right, and these can be hidden or displayed via double clicking or via 'Layer On/Off'. The hidden layers are designated with an X.

The drawing can be zoomed into or reduced in size with Image magnifier + or Image magnifier -.

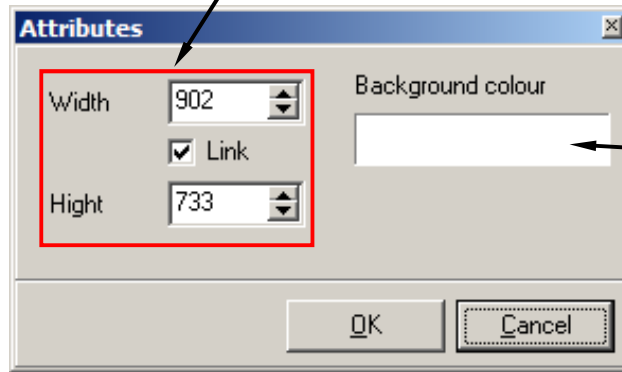


The complete drawing is displayed again with the right image magnifier symbol.



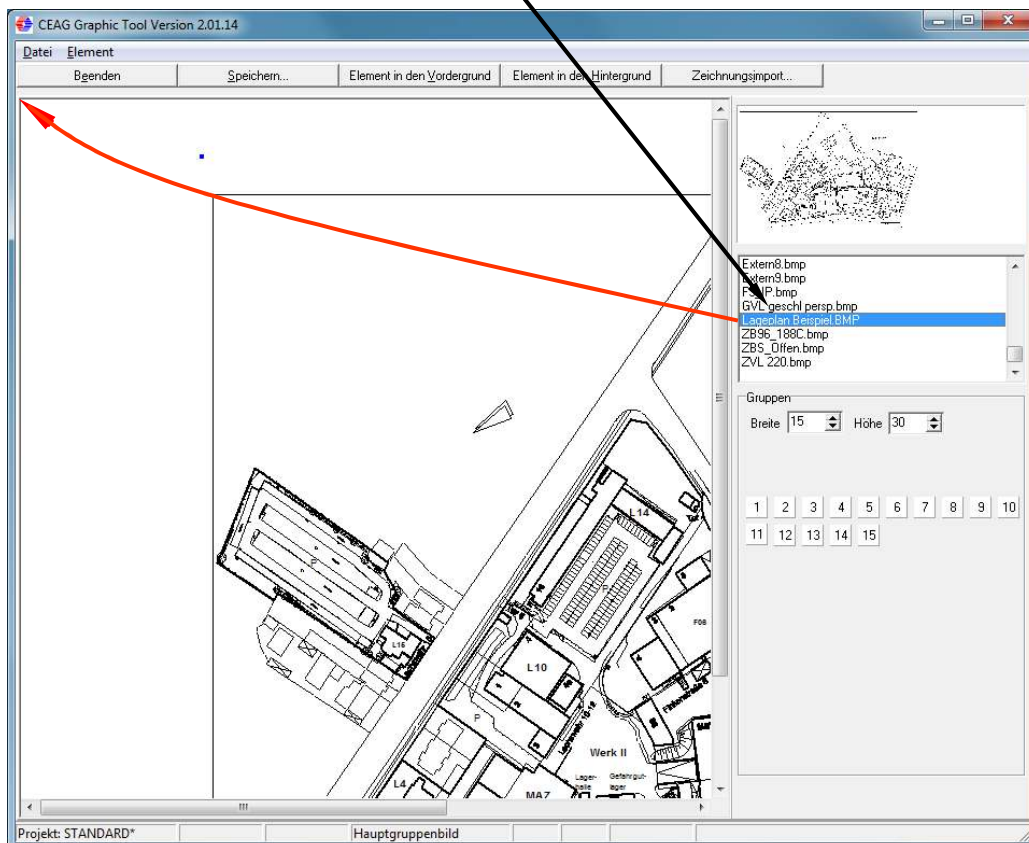
The suitable image is then loaded via 'Import'.

The size of the image is then queried. 1024 x 768 should be specified if possible because the layout programming is designed for this size. When the width is modified, the height is also modified if 'Link' is activated.

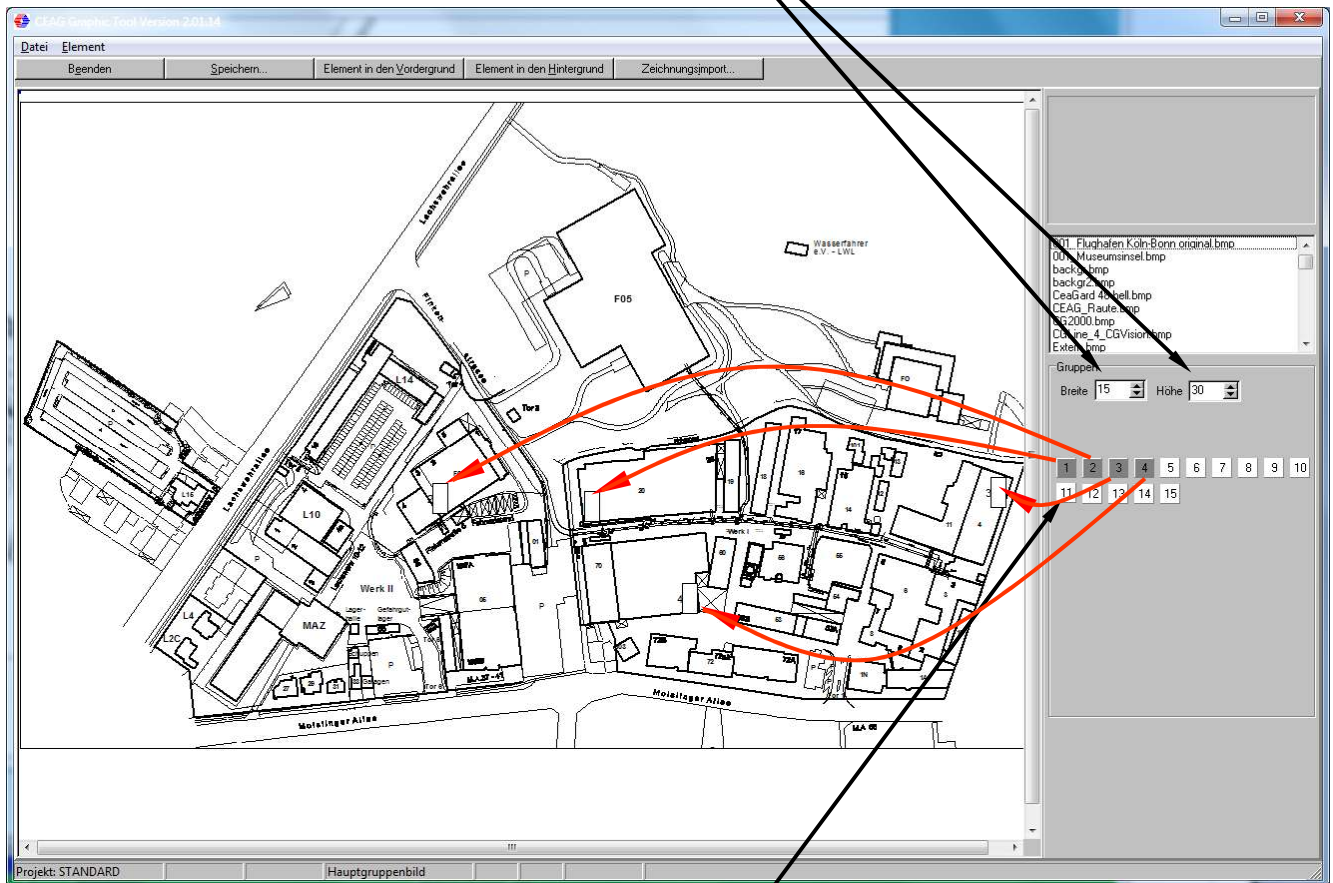


The image can be colour-highlighted for better contrast during import via 'Background colour'. (For this, the black/white option must have been specified previously).

The image is automatically imported into the folder as a bitmap. After selecting the image, it can be dragged into the top left corner of the formatted area by pressing the left mouse button. (red line)
 Corrections can be carried out at any time by clicking anywhere on the layout (press and hold) and dragging the layout to the desired position.



Using the selection fields, the 'width' and 'height' of the groups can be set before positioning the system group in the site plan to achieve optimal size for the corresponding layout template. This should be tested initially.



The system groups 1-15 can be dragged to suitable locations in the site plan with the left mouse button.

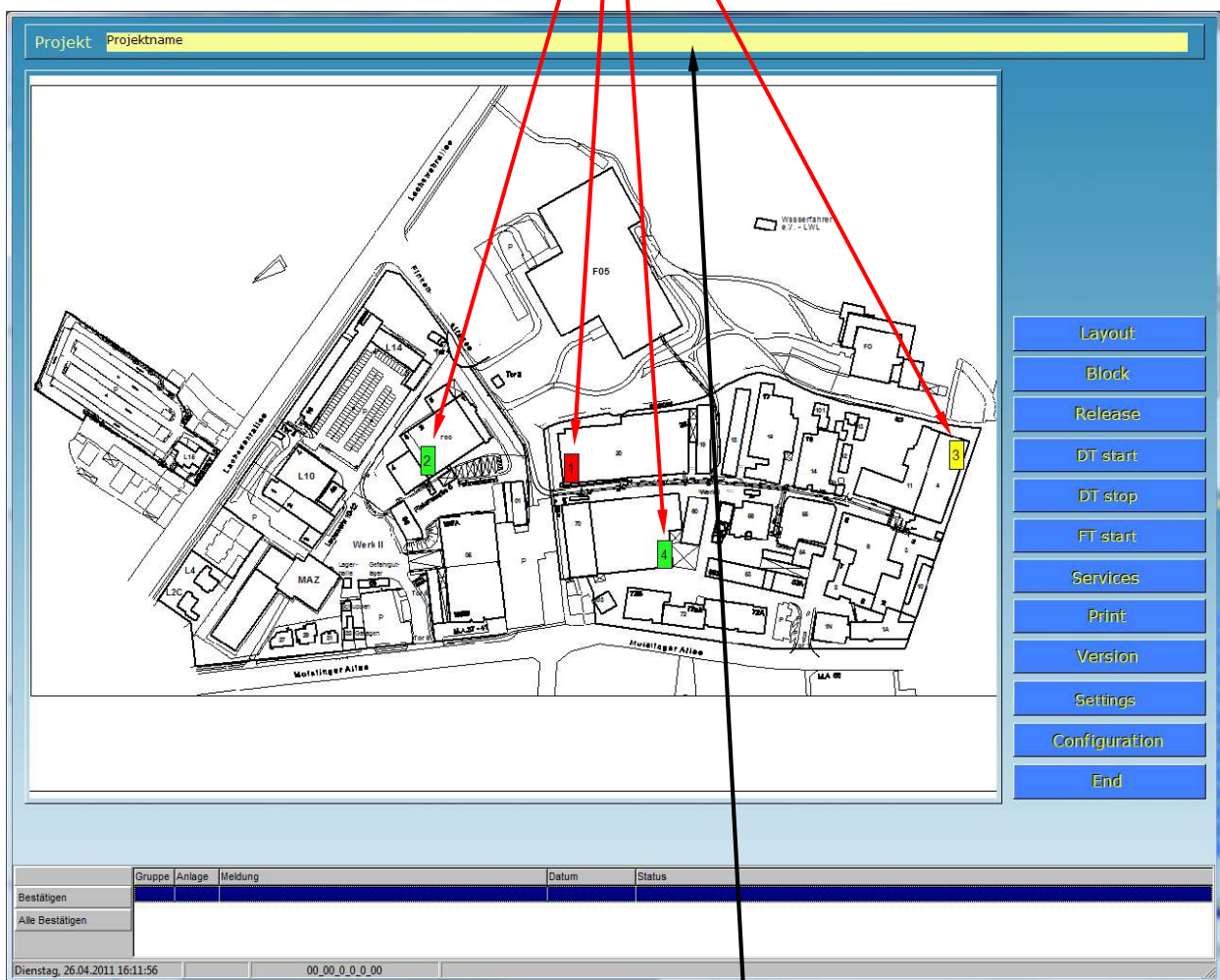
After successful positioning of all system groups, programming can be exited with 'Save' and 'Exit'.
The main group screen is now displayed with the created graphic. The system groups display the status via colours, e.g.

Green = all devices in this group in normal operation

Yellow = at least one system in the group is undergoing function test or duration test

Red = at least one device in the group has a fault

If the system group is clicked on, the corresponding system group screen is displayed.



A better overview is achieved by using the explorer view (recommended) that can be started by clicking with the right mouse button on the yellow address bar.
See also Section 3 – Structure and basic operation.

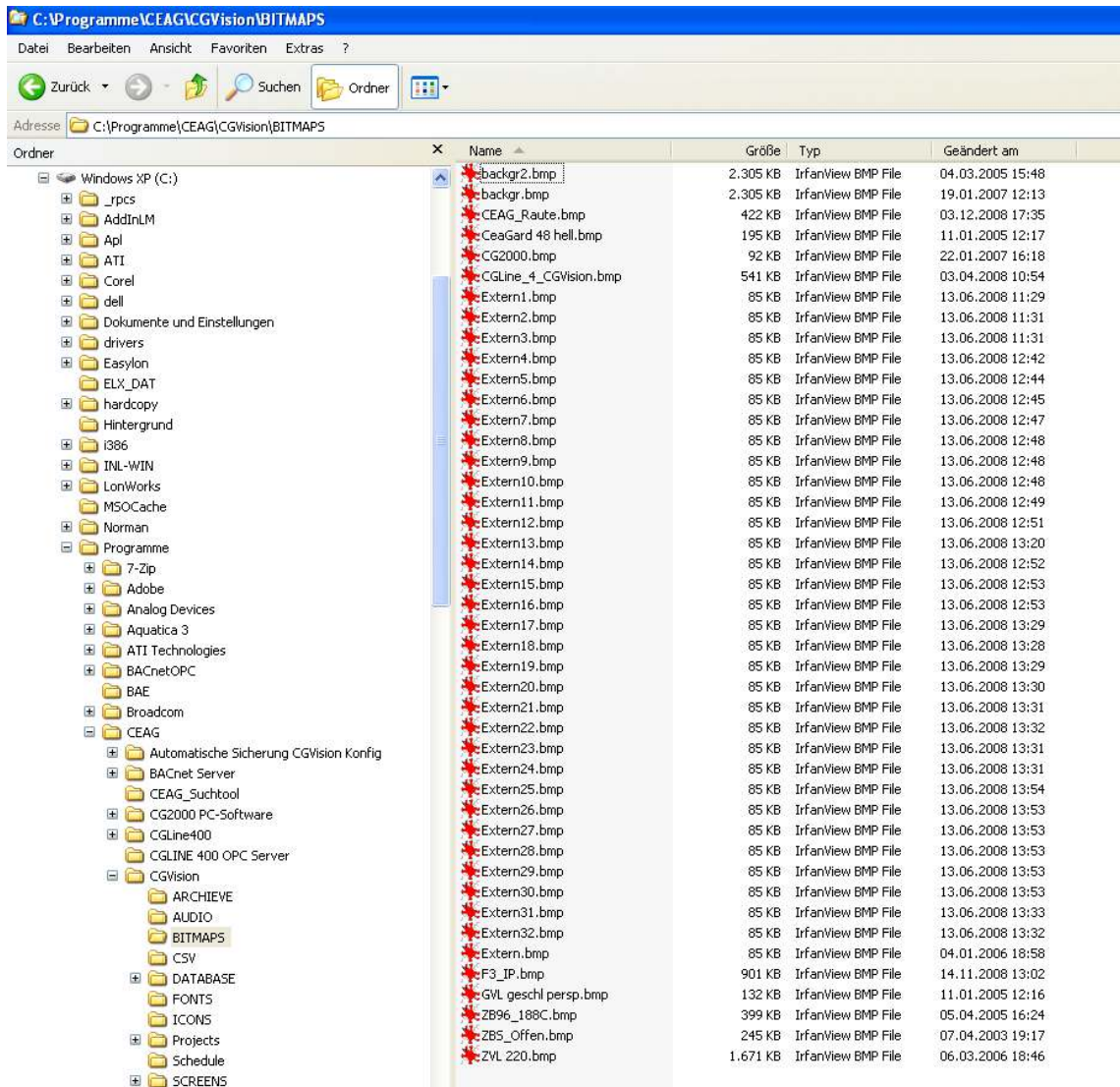
15.1.4 Layout programming of devices in the system group screen

15.1.4.1 Layout programming of devices with .bmp files

Layout images in .bmp format can be used. These can have a max. of 1024 x 768 pixels. Conversions from other formats, for example .jpg, and in other sizes, for example 1280 x 1024, can be simply carried out with conventional graphic software programmes.

The images must be previously copied to the following folder:

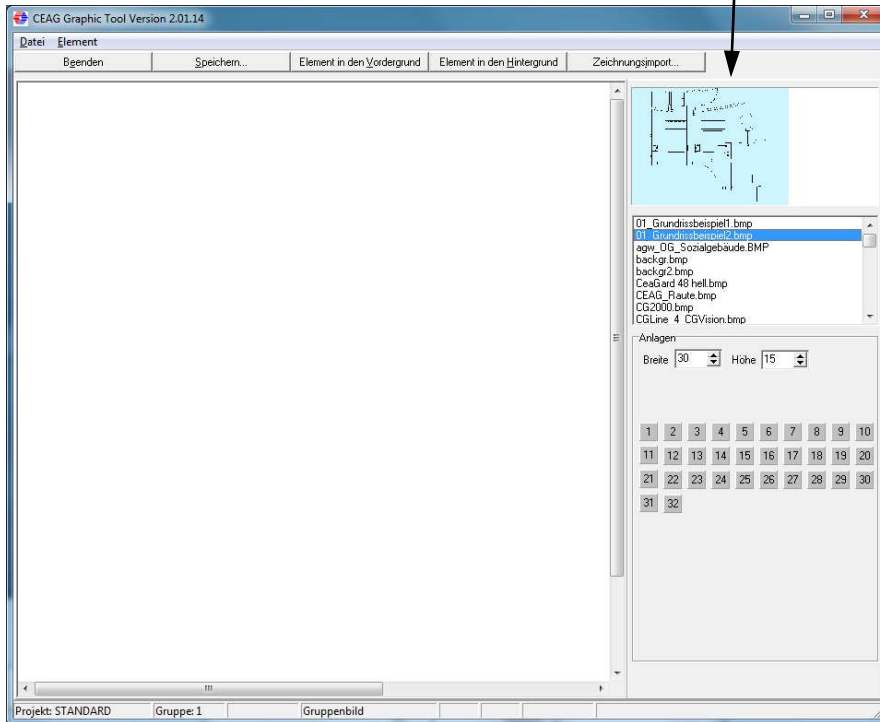
C:/Programme/CEAG/CGVision/BITMAPS



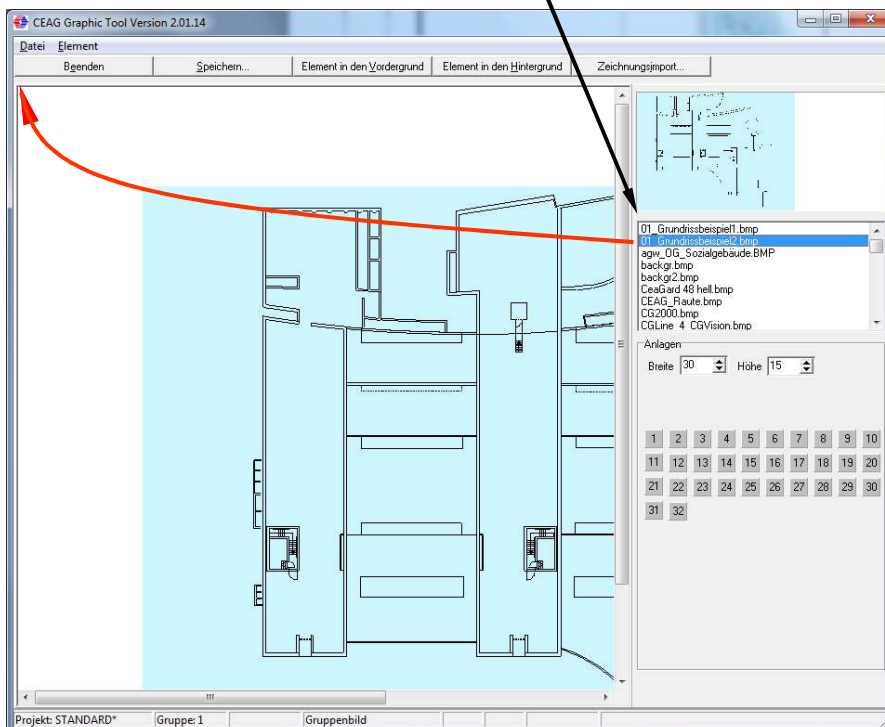
The existing images in this folder are the CGVision system files. These should not be deleted or moved.

Layout programming can begin after all images have been copied to the target folder. Supplements or modifications can be subsequently carried out at any time.

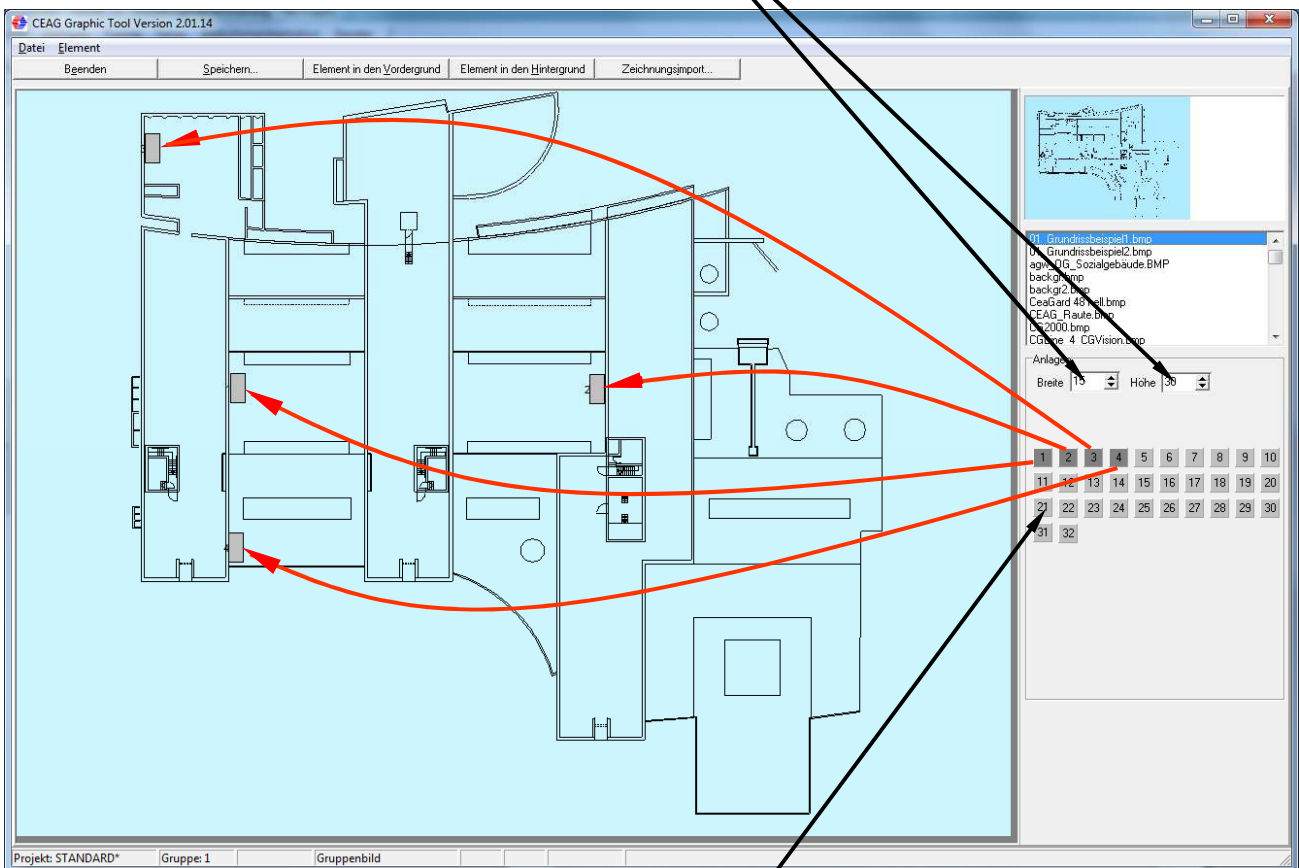
By clicking on 'Layout' in the configuration menu, the CEAG graphics programme opens for layout programming. The copied images appear in the selection list with previews:



After selecting the correct layout image, the image can be dragged into the top left corner of the formatted area by pressing the left mouse button. (red line)
Corrections can be carried out at any time by clicking anywhere on the layout (press and hold) and dragging the layout to the desired position.



Using the selection fields, the 'width' and 'height' of the systems can be set before positioning the devices in the layout to achieve optimal size for the corresponding layout template. This should be tested initially.



The systems 1-32 can be dragged to suitable locations in the aerial view with the left mouse button.

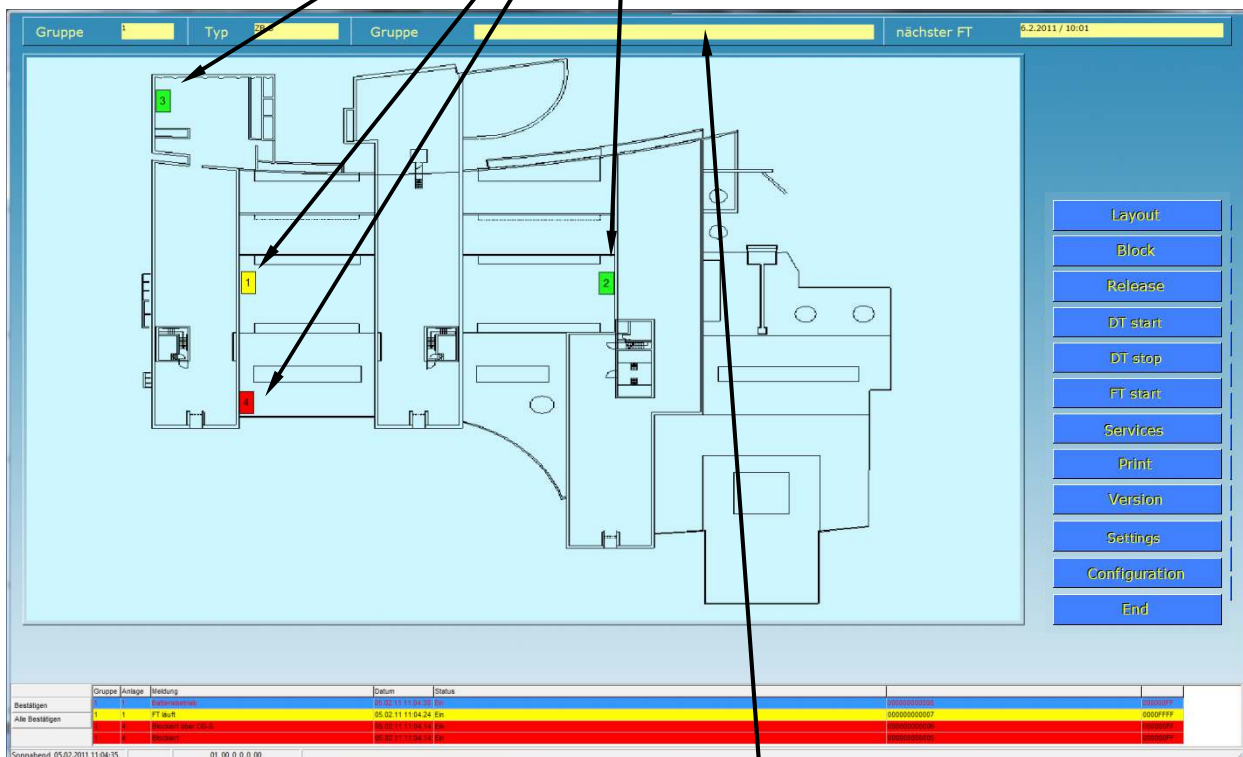
After positioning all of the system groups, programming can be exited with 'Save' and 'Exit'. The main group screen is now displayed with the created graphic. The system groups display the status via colours, e.g.

Green = all devices in this group in normal operation

Yellow = at least one system in the group is undergoing function test or duration test

Red = at least one device in the group has a fault

If the system group is clicked on, the corresponding system group screen is displayed.



A better overview is achieved by using the explorer view (recommended) that can be started by clicking with the right mouse button on the yellow address bar. See also Section 3 – Structure and basic operation.

15.1.4.1 Layout programming of devices via .dwg/.dxf import

Procedure identical to Section 15.1.3.2

15.2 Layout programming of luminaires

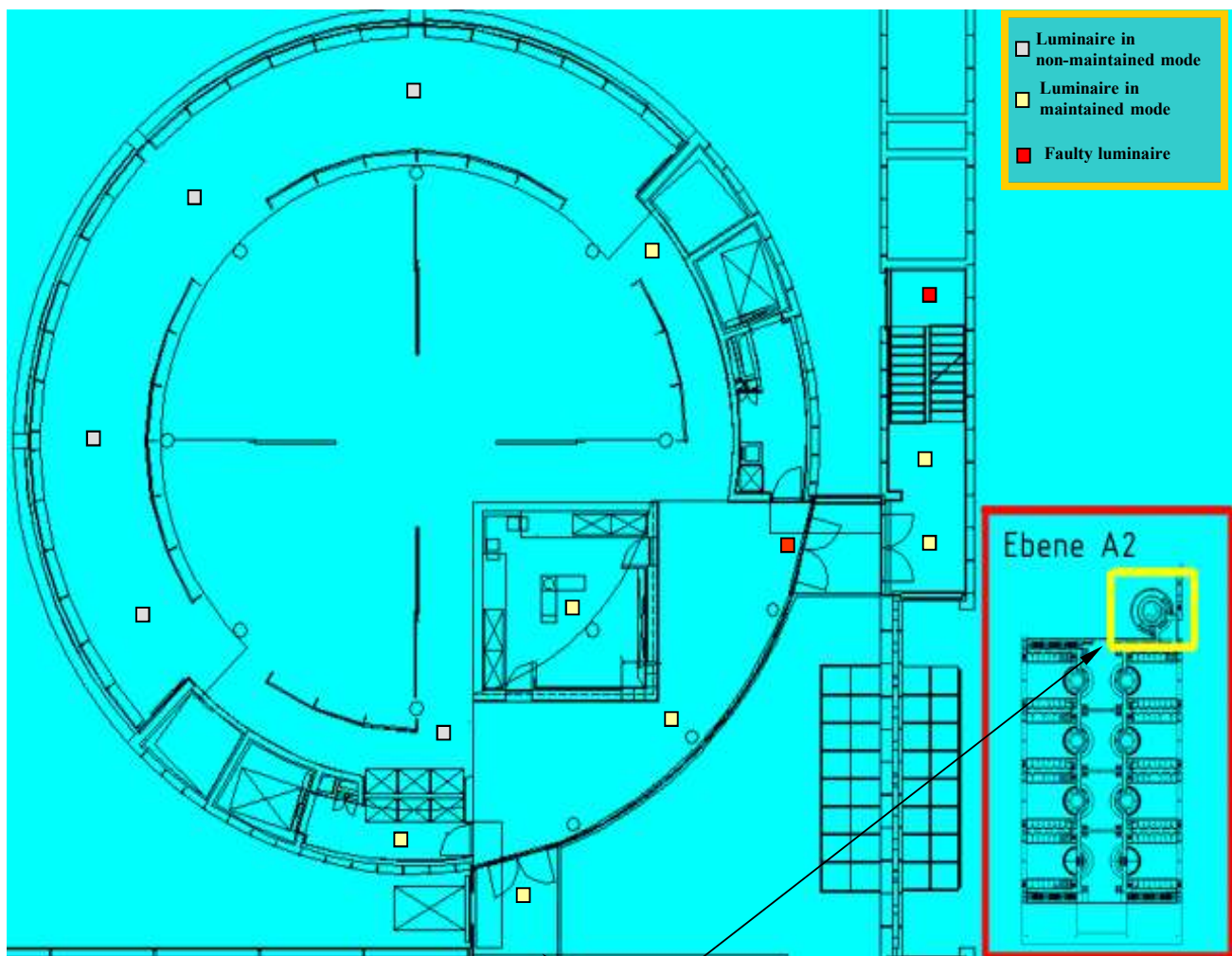
15.2.1 General information on layout programming of luminaires

The function of layout programming for CGVision requires an enabling license in the form of a dongle for a USB port. This is optionally available. The configuration buttons for layout programming are only displayed when after starting the programme CGVision detects a valid dongle.

The license for layout programming is valid for the devices and luminaire programming.

Circuit-related or line-related (for CGLine) layout images can be used in CGVision in which according to the circuit up to 20 (or up to 100 with CGLine) safety or escape sign luminaires can be positioned. The luminaires are displayed according to their state in the layout: non-maintained luminaires and switched off luminaires are shown in grey, maintained luminaires and switched on luminaires in yellow or green and faulty luminaires in red. It is possible to differentiate between safety luminaires (grey/yellow) and escape sign luminaires (grey/green). AutoCAD files (to AutoCAD 2015) in .dwg or .dxf format can be directly imported. Layers not required can be hidden. Alternatively, already completed layout images can be used. The layout images must have a maximum of 1024 x 768 pixels and must be in .bmp format. Several different layout sections can be joined together that are then displayed as a layout image, e.g. with a higher-level room or building circuit. Subsequent modifications to the layout programming can be simply carried out at any time (e.g. moving of luminaires).

Example of a layout image:



The section (framed yellow) corresponds to a sub-layout within a complete layout (framed red).

15.2.2 Layout programming for luminaires with .bmp files

As previously explained, layout images must have a maximum of 1024 x 768 pixels and must be in .bmp format. Conversions from other formats, for example .jpg, and in other sizes, for example 1280 x 1024, can be simply carried out with conventional graphic software programmes.

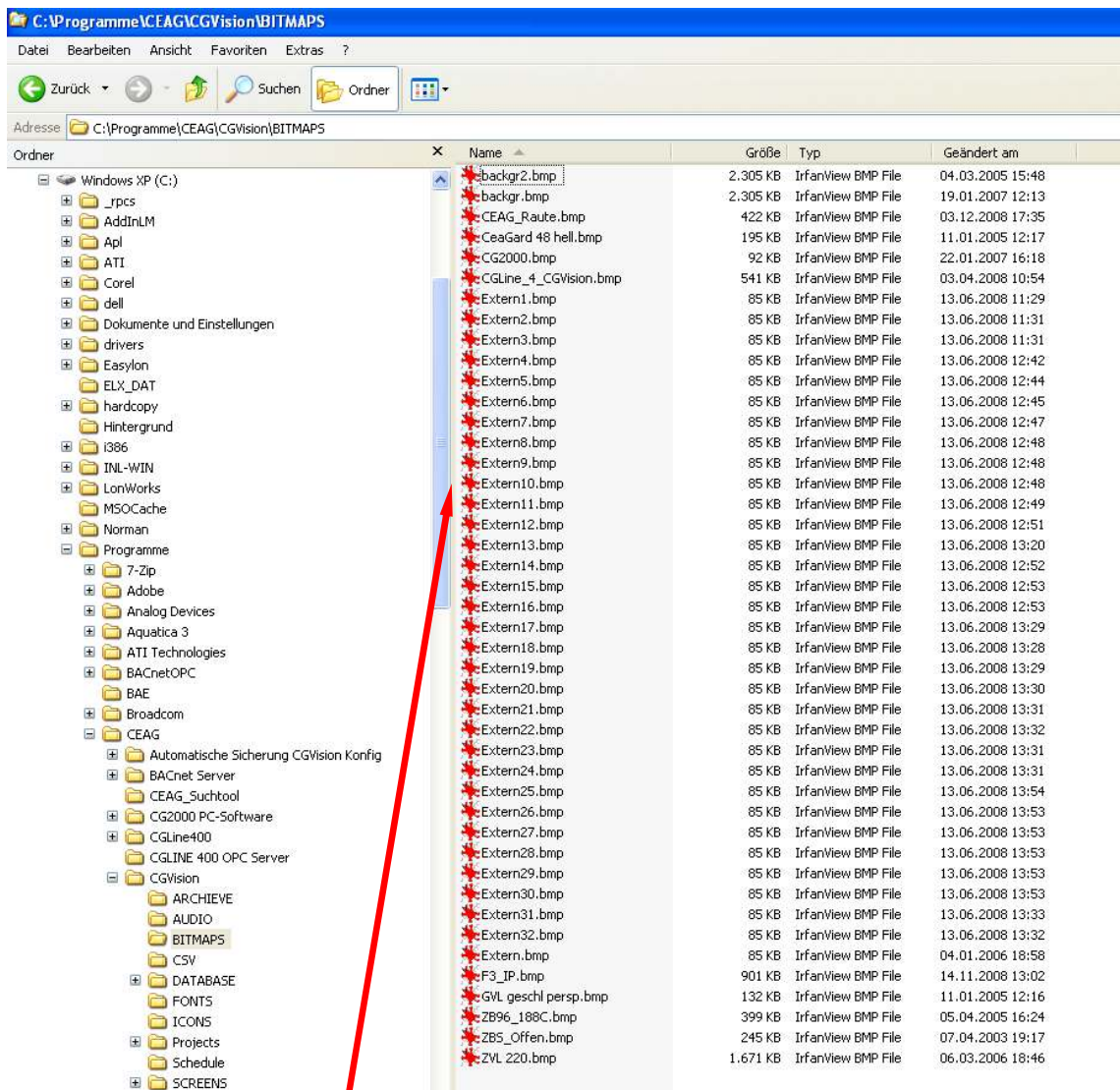
For better orientation it is recommended to name images according to location and circuit, e.g. for a circuit of a circuit change-over module in rack 1, position 7, circuit 1 with location in Hall 2, upper storey.

Example of layout name: Hall 2-US 1-7-1.bmp .

Names can be randomly specified.

For creating layout programming, all layout images must have previously been copied to the following folder:

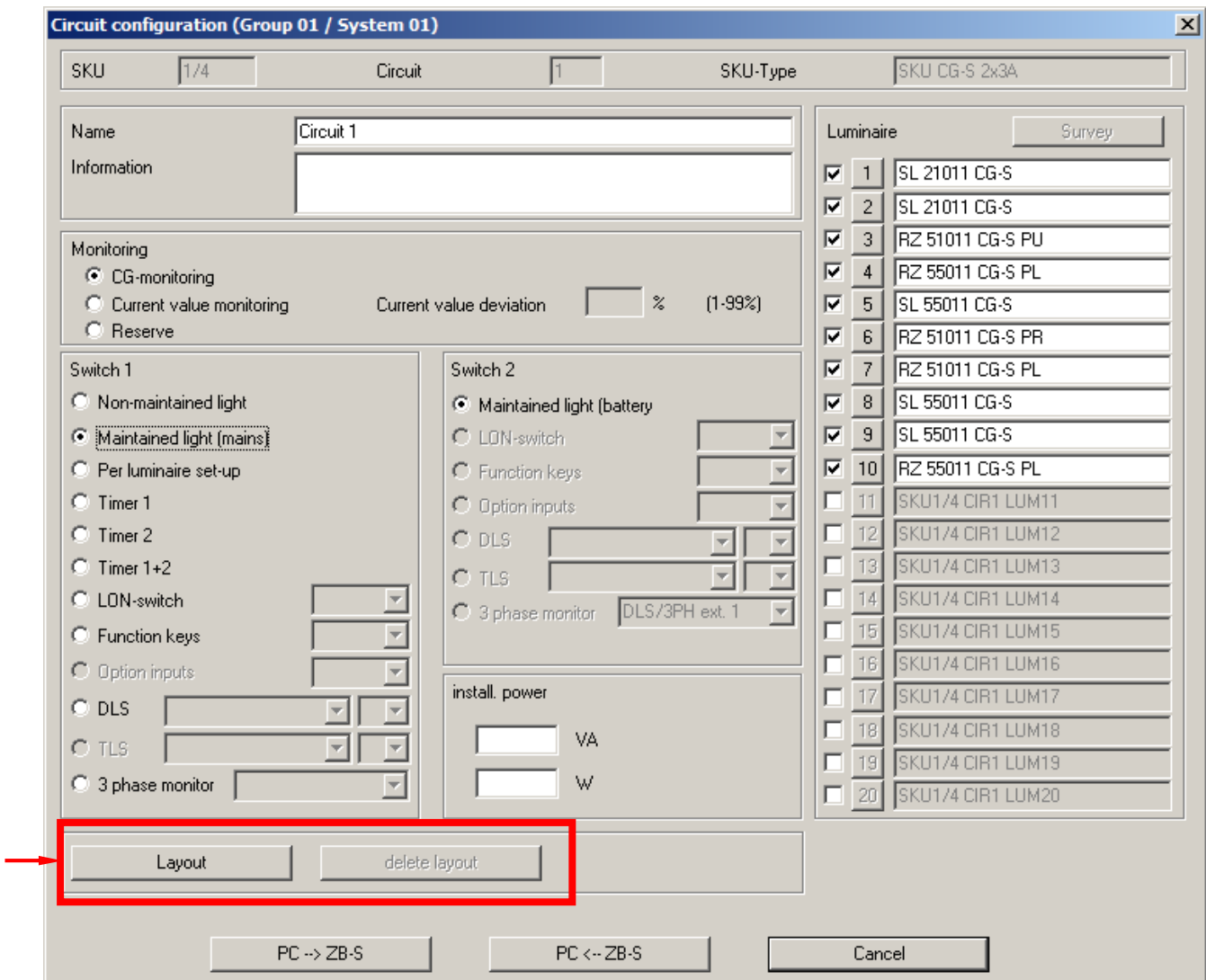
C:/Programs/CEAG/cgvision/BITMAPS



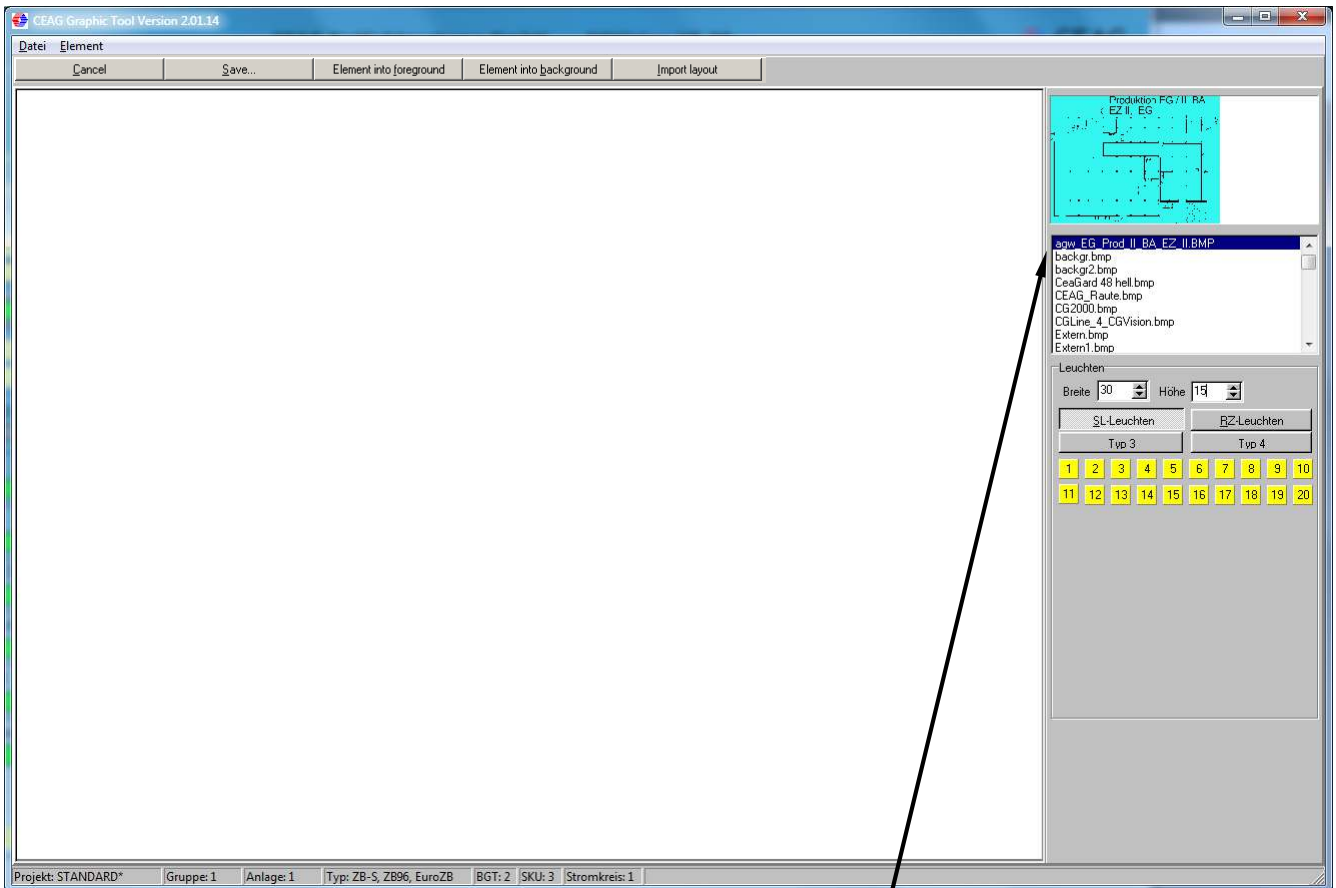
The existing images in this folder are the CGVision system files. These should not be deleted or moved.

Layout programming can begin after all layout images have been copied to the target folder. Supplements or modifications can be subsequently carried out at any time.

After correct detection of the dongle, a 'Layout' button is displayed in each circuit configuration window. This button opens the new menu for creating the layout images:

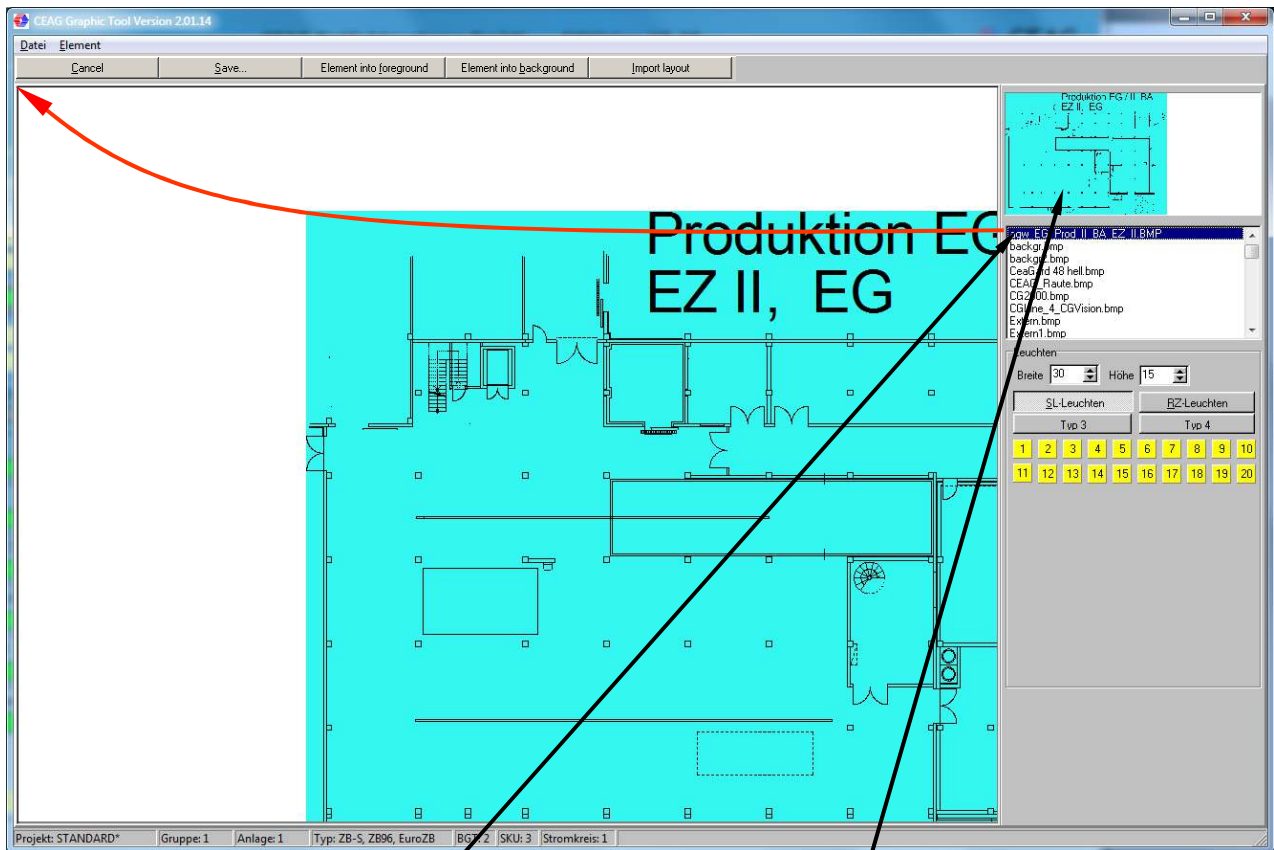


The following window opens:



The assignment of the circuit is shown at the bottom; here for example: system 1 in group 1, circuit 1 on rack 1 in circuit change-over module 7.

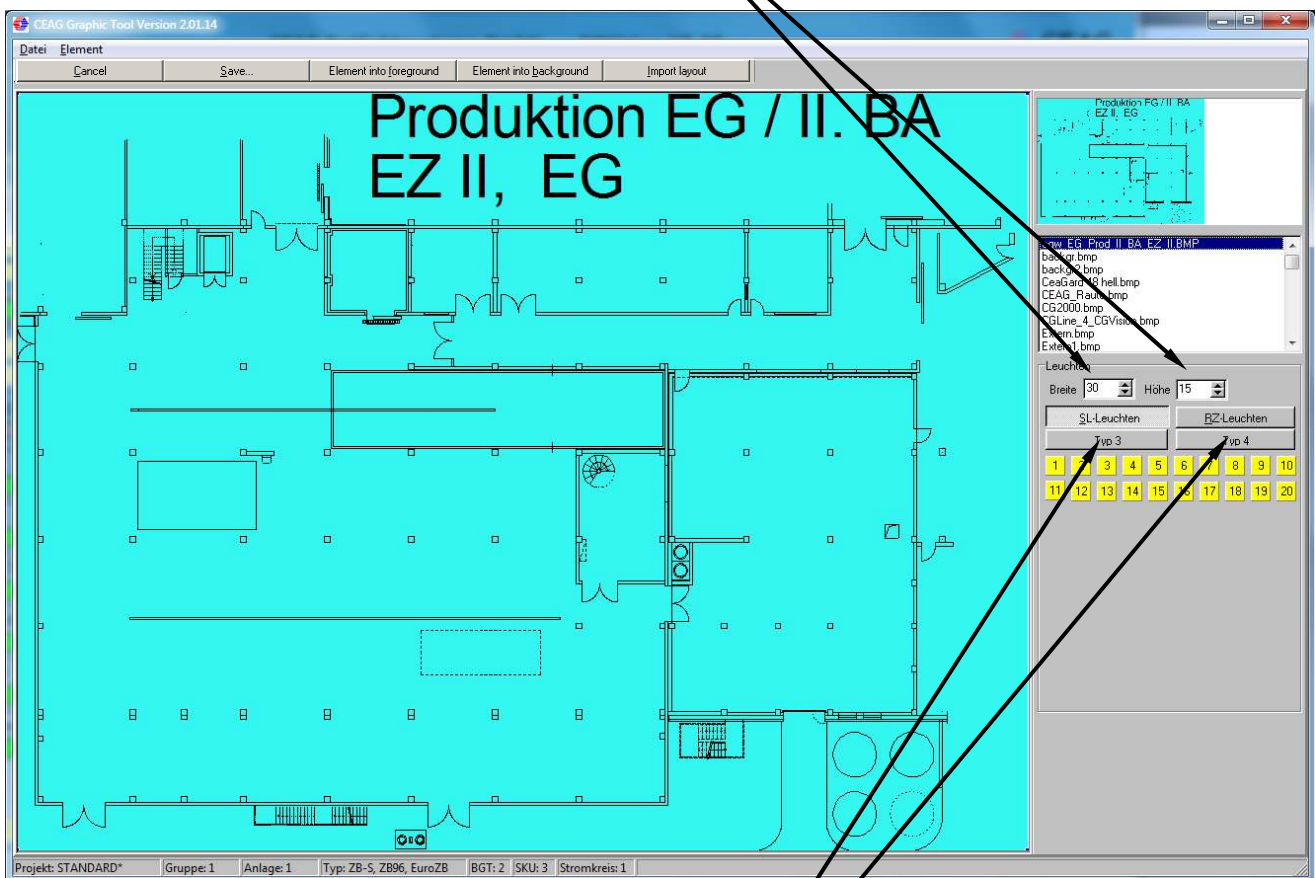
In this list all images are shown that were previously copied into 'Bitmaps'. The corresponding image can be now dragged into the left layout graphic via the left mouse button.



After selecting the correct layout image, the image can be moved with the left mouse button in the free area into the upper left corner. (red line) Corrections can be made at any time by clicking the layout with the mouse at any position (keep mouse button pressed) and moving the layout to the desired position.

For selection and control of the correct image, the bitmap file appears after marking. The top window displays a miniature view of the layout.

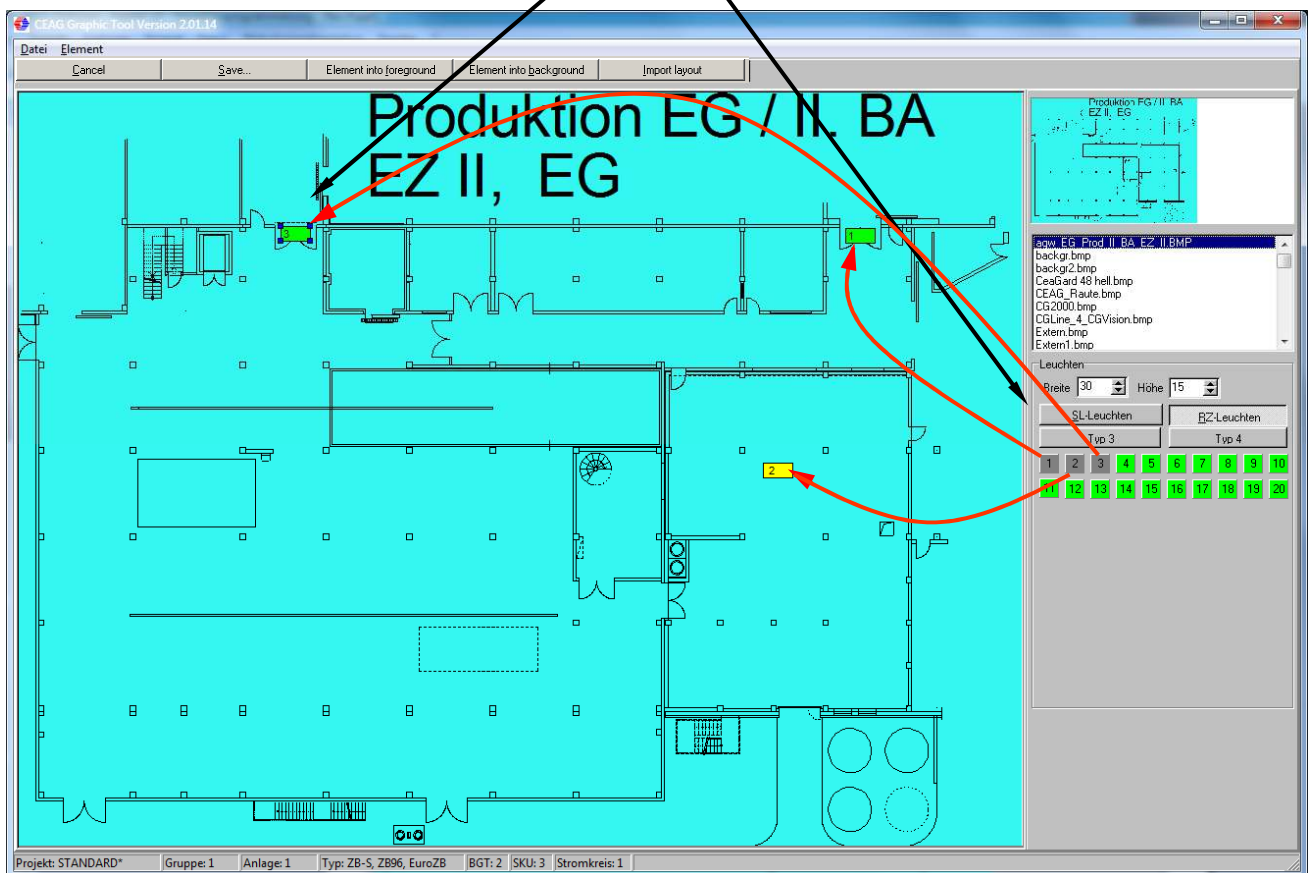
Using the selection fields, the 'width' and 'height' of the luminaires can be set before positioning the luminaires to achieve optimal size for the corresponding layout template. This should be tested initially. We recommend a width of 10-20 pixels and a height of 7-15 pixels.



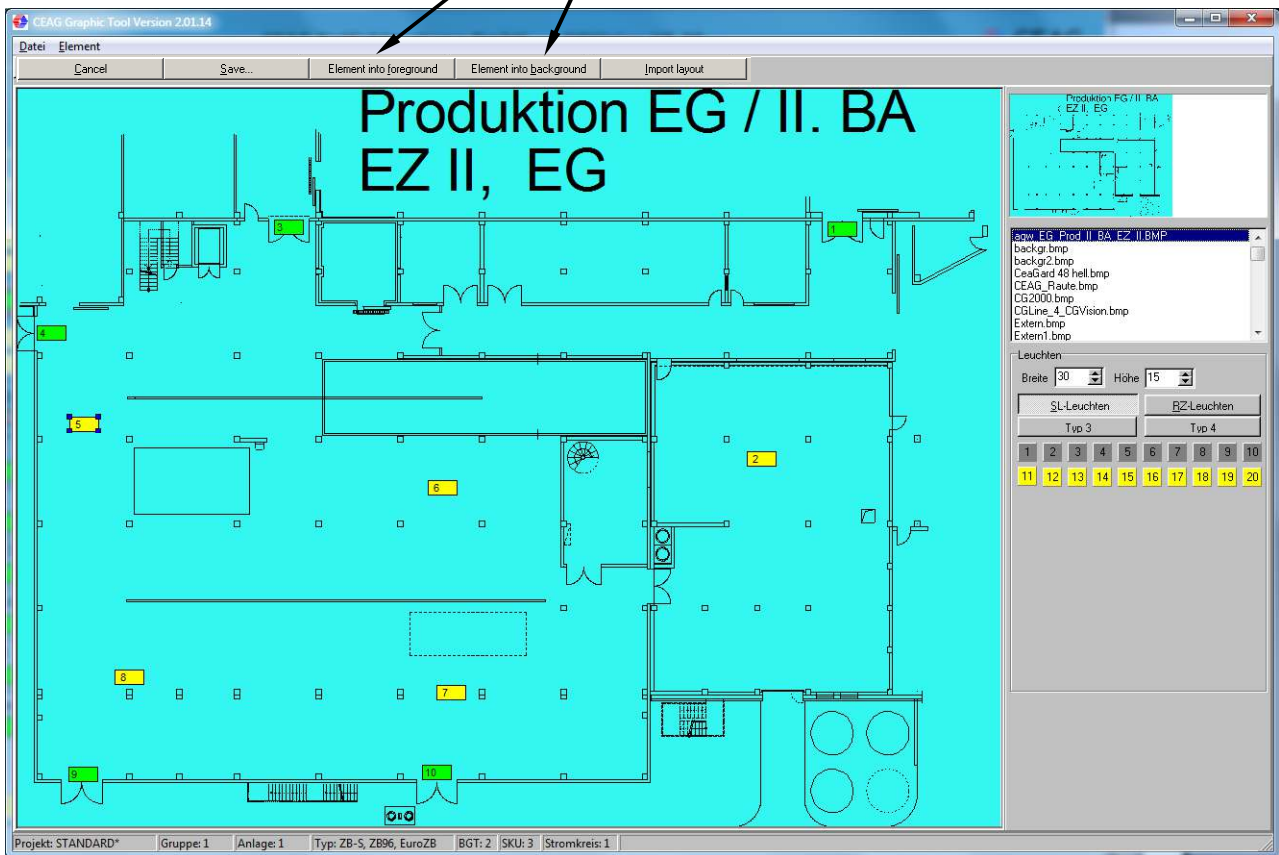
You can select between safety luminaires and escape sign luminaires via the 'SL luminaires' and 'ES luminaires' buttons. The safety luminaires are displayed normally in the layout later, and the escape sign luminaires as green pictograms.

After implementing the above pre-settings the luminaires can then be positioned.

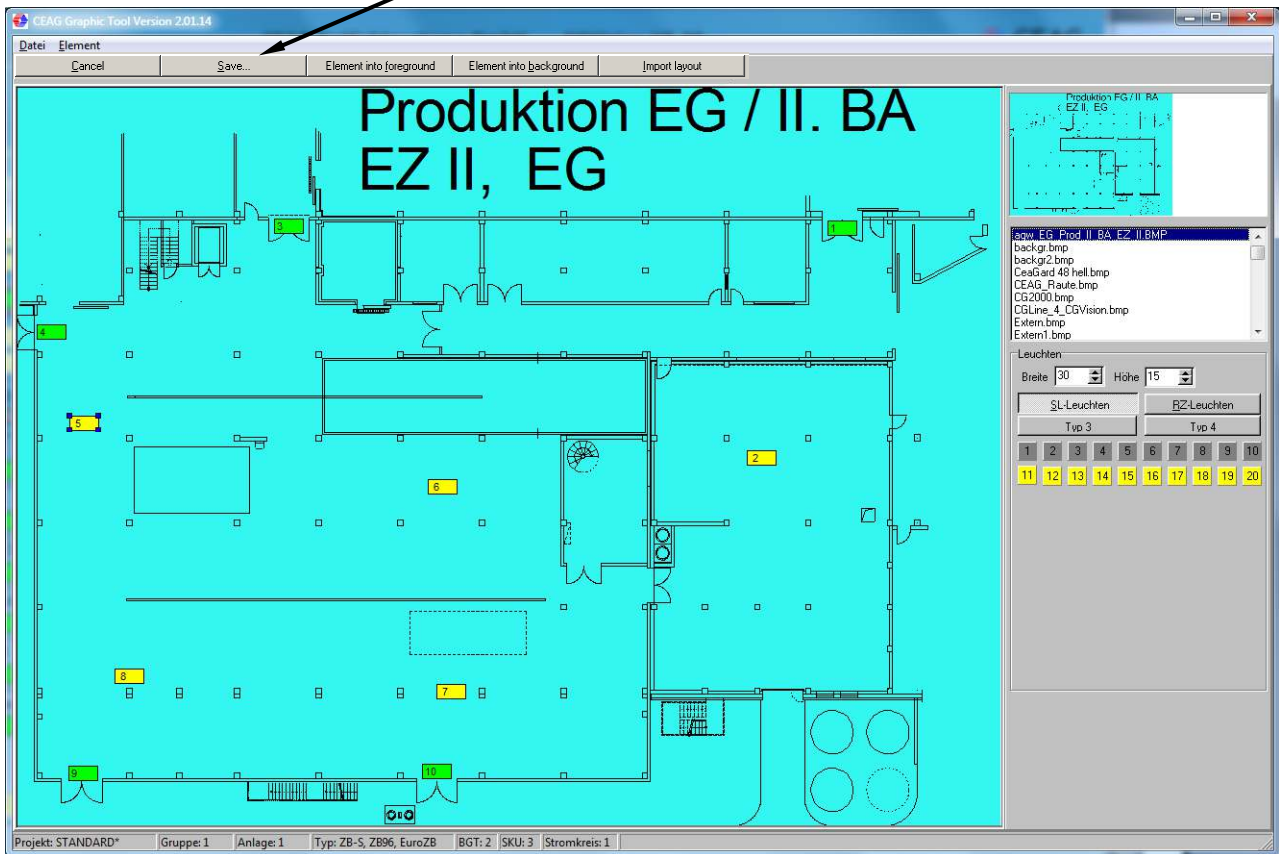
The luminaires can now be placed into their positions in the layout sequentially with pressed mouse button. Corrections can be made at any time by marking the luminaire (four blue corners) and moving with pressed mouse button. Luminaires can be deleted by pressing the 'Del' button; deleted luminaires are placed back again.



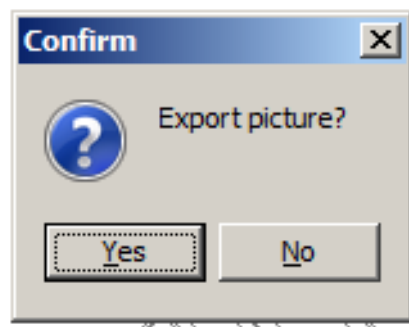
The luminaires can be positioned in any sequence. It is also possible to import several small layout images. Image files can be placed in the foreground or background via the 'Element in the foreground' or 'Element in the background' buttons.



After positioning all luminaires, the programming must be saved via the 'Save' button. Subsequent modifications can be carried out at any time by calling up again and saving.



The following message is displayed; confirm with yes and exit the layout programme via the 'Exit' button.



This process can now be implemented for all further circuits. After completing the complete layout programming or part of this, the corresponding layouts can be called up from the specific circuit in the circuit screen via the 'layout' button.

EATON CGVision V6.30

Group: Sample group Next FT: 4.6.2012 / 5:00 Next DT: 1.1.2037 / 10:00
 System: ZB-S 10 C3 Manual reset: No Delay on mains return: 0 min
 Circuit: Circuit 1 Switch 1: Per luminaire setup Switch 2: Non-maintained light

Information: _____

SKU	1/4 CG-S 2x3A	1	Name	Switch 1	Switch 2
		1	SL 21011 CG-S	Non-maintained light	Non-maintained light
		2	SL 21011 CG-S	DLS/3PH ext. (1/1)	Non-maintained light
		3	RZ 51011 CG-S PU	Maintained light (mains)	Non-maintained light
		4	RZ 55011 CG-S PL	Maintained light (mains)	Non-maintained light
		5	SL 55011 CG-S	DLS/3PH ext. (1/2)	Non-maintained light
		6	RZ 51011 CG-S PR	Maintained light (mains)	Non-maintained light
		7	RZ 51011 CG-S PL	Maintained light (mains)	Non-maintained light
		8	SL 55011 CG-S	DLS/3PH ext. (1/1)	Non-maintained light
		9	SL 55011 CG-S	Non-maintained light	Non-maintained light
		10	RZ 55011 CG-S PL	Maintained light (mains)	Non-maintained light
		11	Spare!		
		12	Spare!		
		13	Spare!		
		14	Spare!		
		15	Spare!		
		16	Spare!		
		17	Spare!		
		18	Spare!		
		19	Spare!		
		20	Spare!		

Buttons: ISO +, ISO -, Fuse DC, Fuse AC, Overload, Current i<Imin, Layout, Print, Configuration, Back

Group: 1 Type: ZB-S US System: 1

Group	System	Message	Date	Status
Acknowledge		Line break	01.06.12 12:45:30	Off
Acknowledge all		Battery interruption	01.06.12 12:45:30	Off
Acknowledge all		Battery failure	01.06.12 12:45:30	Off
1	1	FT running	01.06.12 12:45:31	Off

Friday, 01.06.2012 13:01:40 17

Clicking a luminaire opens an information window with further information and functions

Gruppe	Anlage	Meldung	Datum	Status
Bestätigen		SKU 2/3 SK 1: 100X020000000000020	04.05.11 16:33:21	
Alle Bestätigen	1	FT laut	04.05.11 16:33:54	Aus
		Bestätigung	04.05.11 16:33:54	
		Neuinstallation	04.05.11 16:33:54	

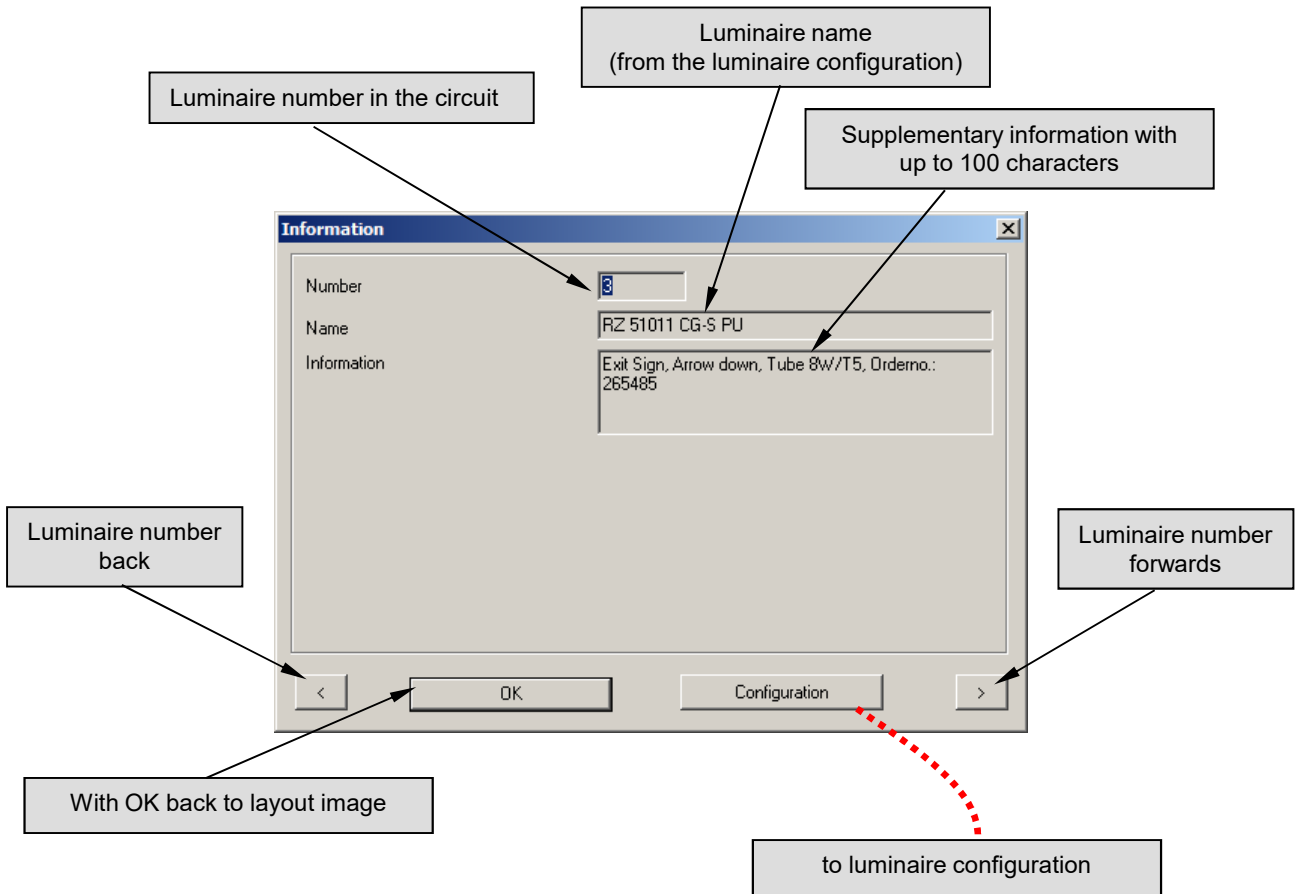
Information

Number: 8

Name: RZ 51011 CG-S PU

Information: Exit Sign, Arrow down, Tube 8W/T5, Orderno.: 265485

< OK Configuration >



Luminaire configuration

Luminaire: 3

Name: RZ 51011 CG-S PU

Information: Exit Sign, Arrow down, Tube 8W/T5, Orderno.: 265485

With out CGS (maintained)
 Non-maintained light
 Maintained light

Switch 1
 Timer 1
 Timer 2
 Timer 1+2
 LON-switch [dropdown]
 Function keys [dropdown]
 Option inputs [dropdown]
 DLS [dropdown] [dropdown]

Switch 2
 No functioni
 LON-switch [dropdown]
 Function keys [dropdown]
 Option inputs [dropdown]
 DLS [dropdown] [dropdown]

Information about the luminaire or the switching assignment can be simply edited here.

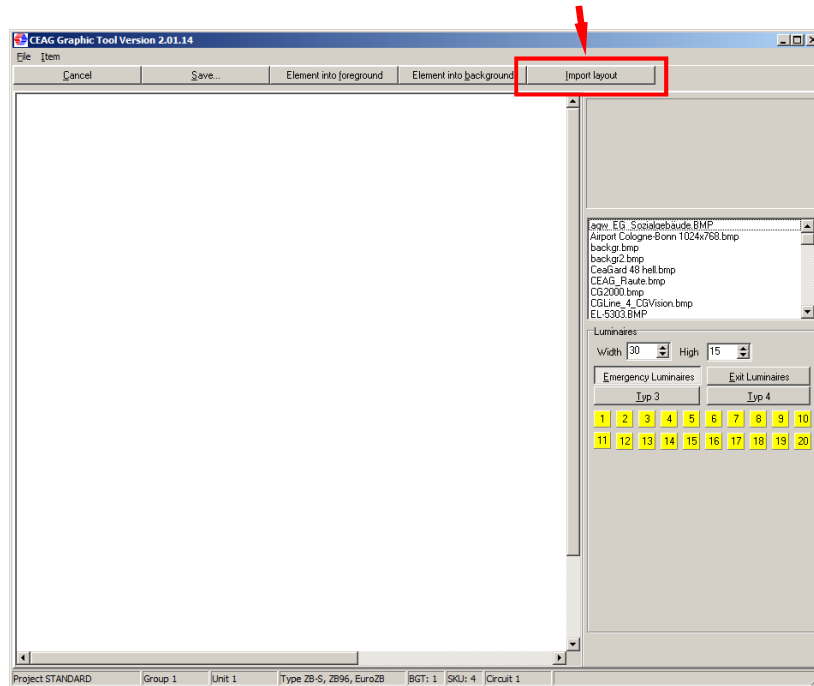
After modification, by clicking on the PC → ZB-S button the modification is implemented immediately and the layout is returned to.

15.2.3 Layout programming for luminaires via .dwg/.dxf import

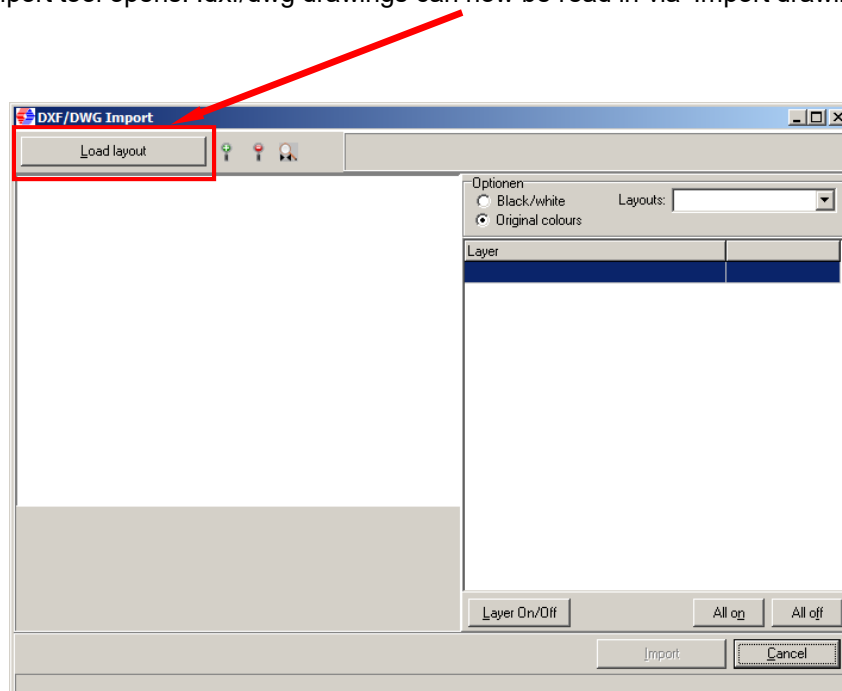
Note: .dwg/.dxf files to AutoCAD 2015 are supported.

Instead of finished .bmp files, files in .dwg/.dxf format can be imported. Any part from the .dwg file can be created. Layers not required can be hidden.

The import can be started with the graphics tool via the 'Drawing import' button:



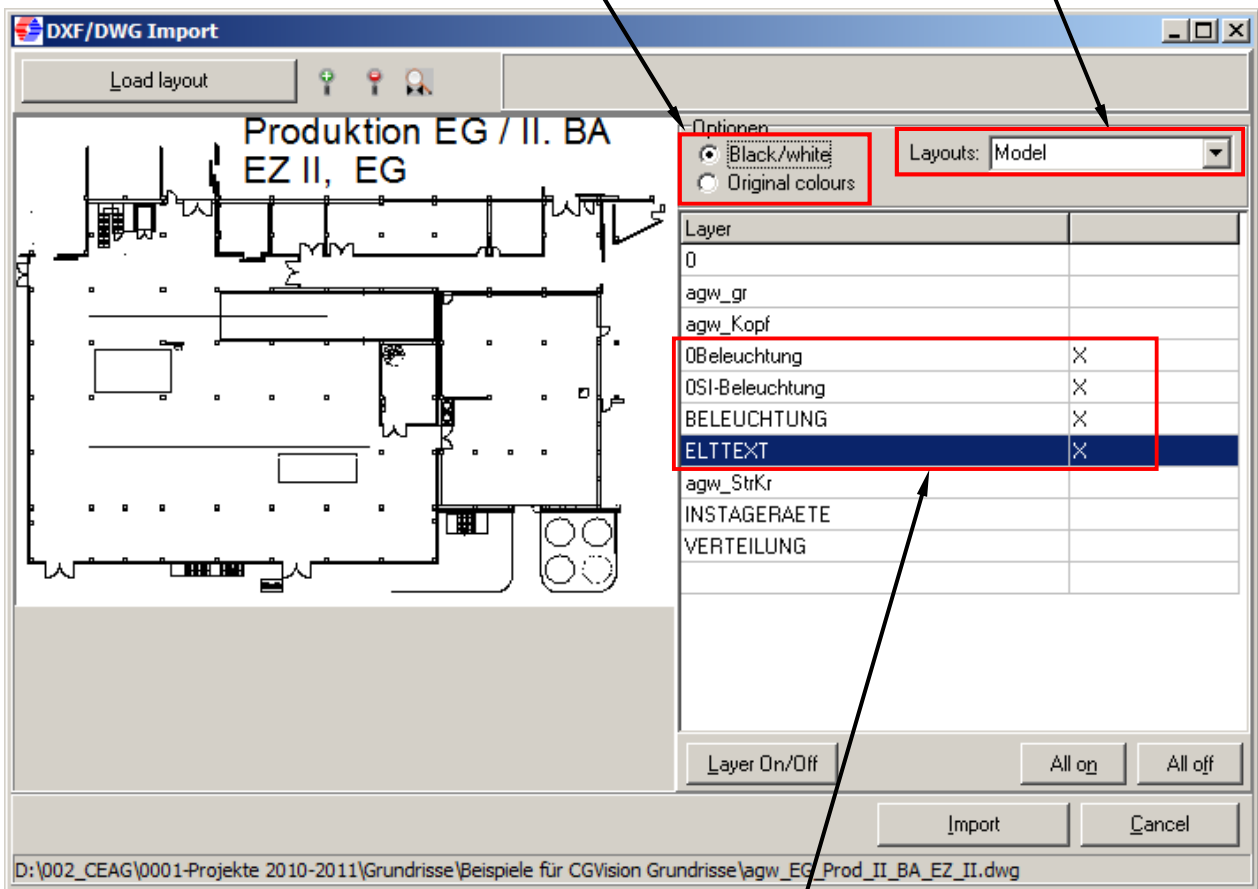
The DXF/DWG import tool opens. .dxf/dwg drawings can now be read in via 'Import drawing':



After selecting and opening the correct file, the drawing is displayed in the import tool in an overview.

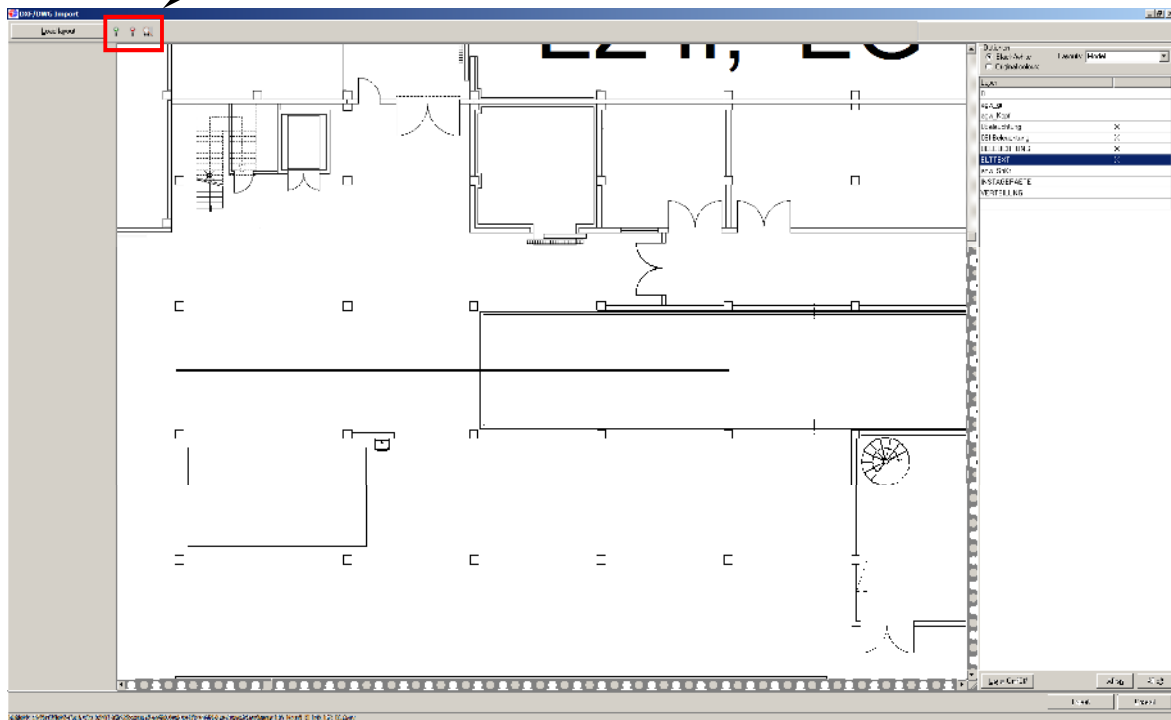
In the 'Layouts' selection field, a specific layout (if this exists) can be selected from the .dwg files.

Coloured layers can be rendered in black and white to clarify the display.

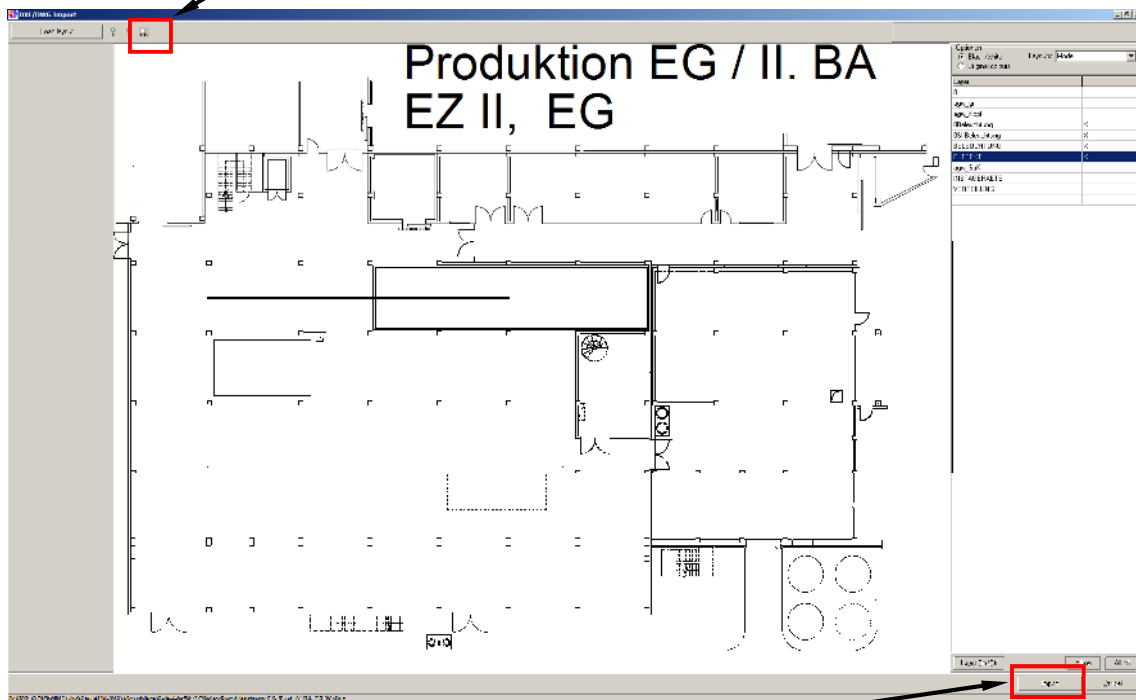


All available layers are listed in the area on the right, and these can be hidden or displayed via double clicking or via 'Layer On/Off'. The hidden layers are designated with an X.

The drawing can be zoomed into or reduced in size with Image magnifier + or Image magnifier -.

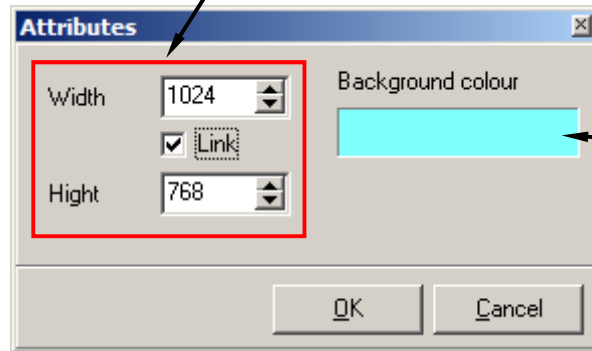


The complete drawing is displayed again with the right image magnifier symbol.



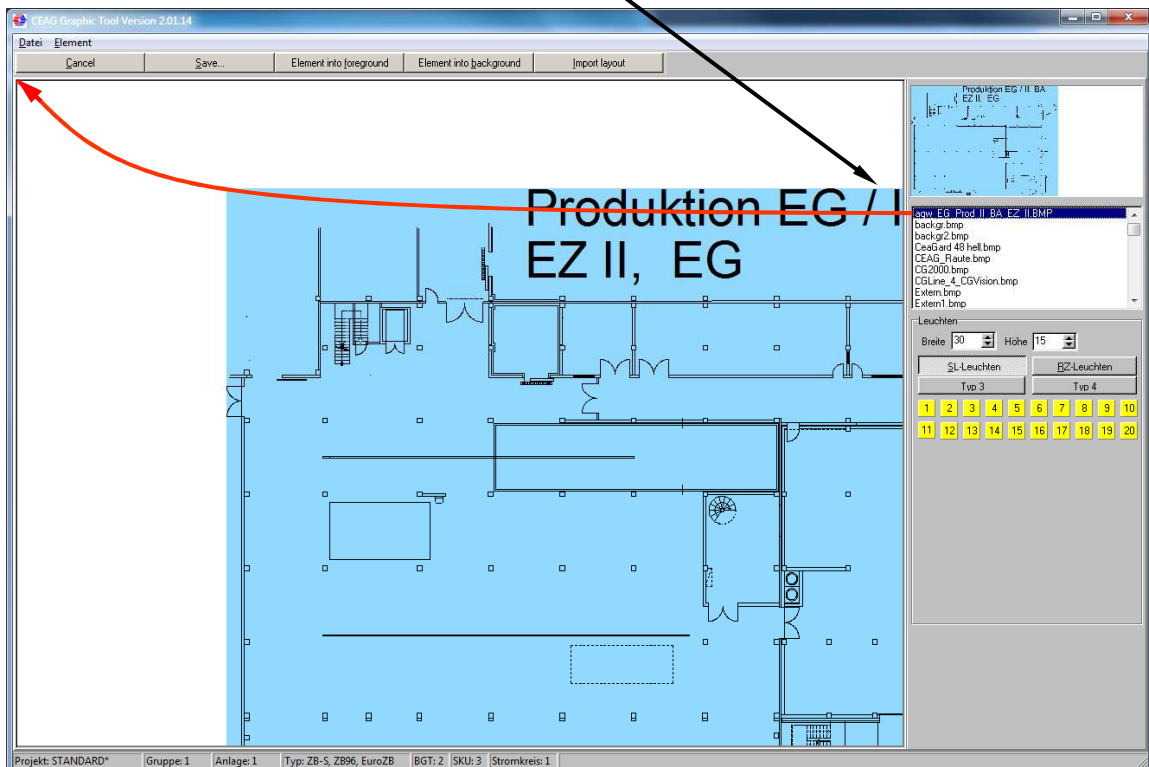
The suitable image is then loaded via 'Import'.

The size of the image is then queried. 1024 x 768 should be specified if possible because the layout programming is designed for this size. When the width is modified, the height is also modified if 'Link' is activated.

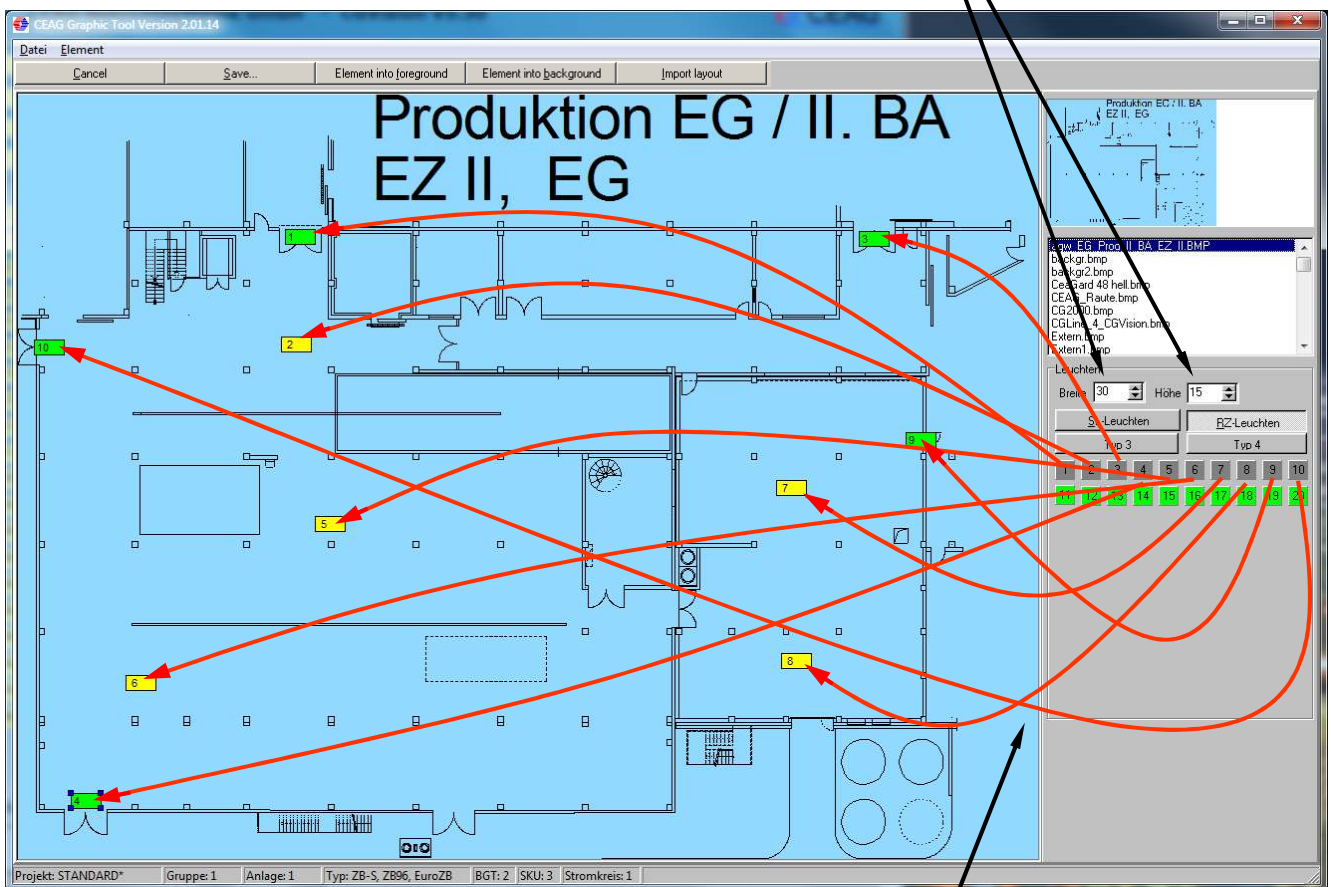


The image can be colour-highlighted for better contrast during import via 'Background colour'. (For this, the black/white option must have been specified previously).

The image is automatically imported into the folder as a bitmap. After selecting the image, it can be dragged into the top left corner of the formatted area by pressing the left mouse button. (red line)
 Corrections can be carried out at any time by clicking anywhere on the layout (press and hold) and dragging the layout to the desired position.



Using the selection fields, the 'width' and 'height' of the luminaires can be set before positioning the luminaires in the layout to achieve optimal size for the corresponding layout template. This should be tested initially.



The luminaires 1 to 20 can be moved to the suitable positions in the layout with the left mouse button

After positioning all luminaires in the circuit, programming can be exited with 'Save' and 'Exit'. The created layout can now be called up in the circuit screen via the 'layout' button.

The screenshot shows the EATON CGVision V6.30 interface. At the top, it displays 'EATON CGVision V6.30'. Below this, there are several input fields for 'Group', 'System', 'Circuit', 'Next FT', 'Manual reset', 'Next DT', 'Delay on mains return', 'Switch 1', and 'Switch 2'. The main area contains a table with columns for 'Name', 'Switch 1', and 'Switch 2', listing various luminaire models and their switch configurations. On the right side, there are four buttons: 'Layout', 'Print', 'Configuration', and 'Back'. The 'Layout' button is highlighted with a red border. An arrow points from the text box above to this button. At the bottom, there is a status bar with a table of messages and a timestamp 'Friday, 01.06.2012 14:11:00'.

Group	System	Message	Date	Status
Acknowledge	1	1	SKU 1/4 SK 2 1XXXXXXXXXXXXXXXXXXXXXXX20	01.06.12 14:10:38 On
Acknowledge	1	1	SKU 1/4 SK 1 1XXXXXXXXXXXXXXXXXXXXX20	01.06.12 14:10:34 On
Acknowledge all	1	1	Cable break	01.06.12 14:10:30 Off
	1	1	FT running	01.06.12 14:10:30 Off

The layouts for luminaire programming can be opened from any screen. The first available layout image is always opened in the current view. For example in the device group screen for the first device group, the first available layout image of this group is opened.

Variable display of luminaires in the layout

Information bar

Exit sign luminaire switched on (green)

Exit sign luminaire faulty (red)

Buttons for navigation and printing

Produktion EG / II. BA
EZ II, EG

Circuit +
Circuit -
Print (circuit)
Failure +
Failure -
Print (failures)
Print (all)
Back

	Gruppe	Anlage	Meldung	Datum	Status
Bestätigen			Notschalörung	05.05.11 13:59:18	Aus
Alle Bestätigen			Notschalörung	05.05.11 13:32:01	Ein
			Notschalörung	05.05.11 13:31:51	Aus
			Blockiert über Menü	05.05.11 10:26:48	Aus

Donnerstag, 05.05.2011 16:03:30 01_01_0_2_3_01

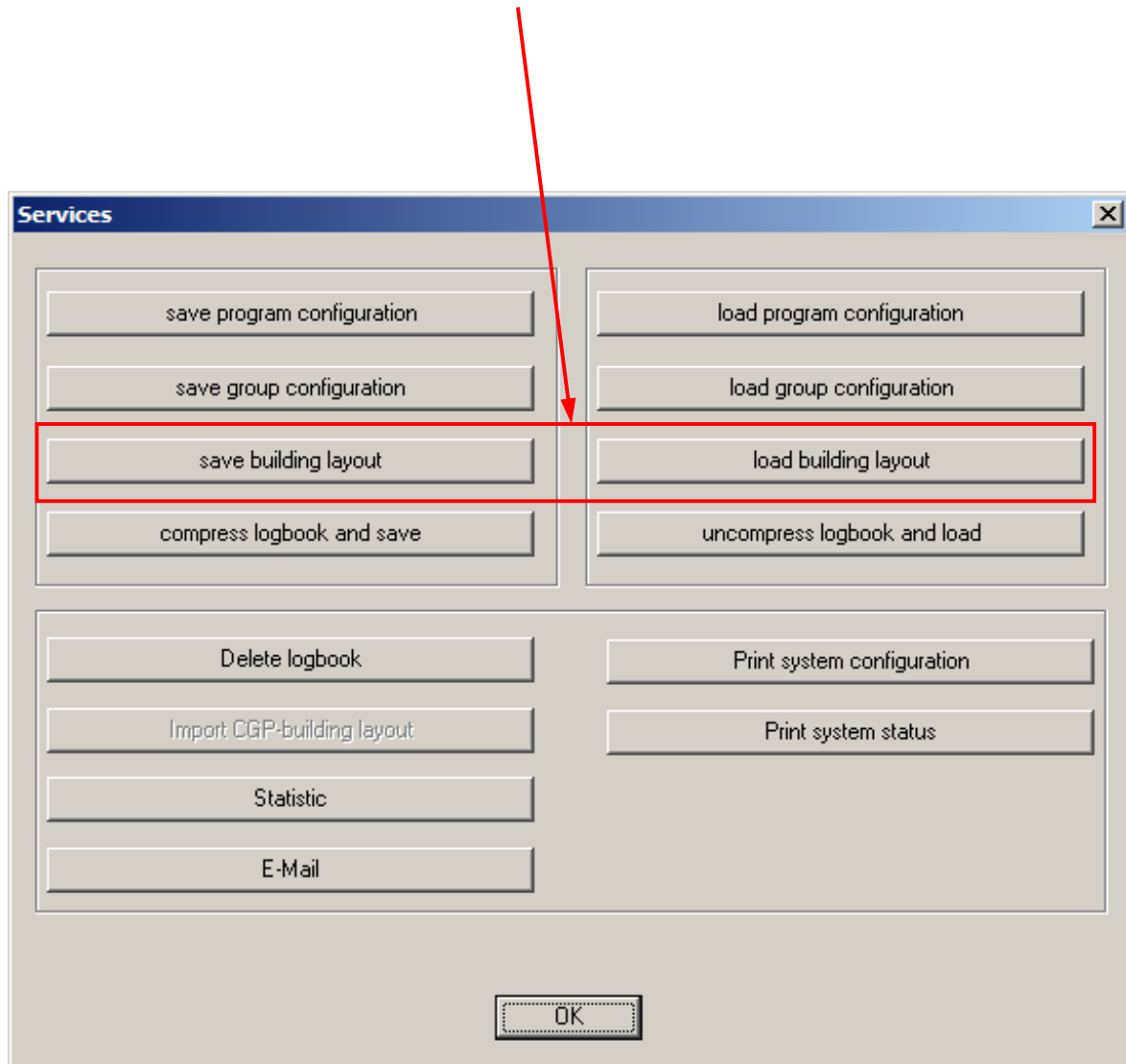
Safety luminaire switched on (yellow)

Safety luminaire faulty (red)

Safety luminaire switched off (grey)

15.3 Saving/loading layout programming

We recommend saving created layout programming to another data carrier. This is possible via the 'Services' menu. The saved layout programming can then be called up again when required.

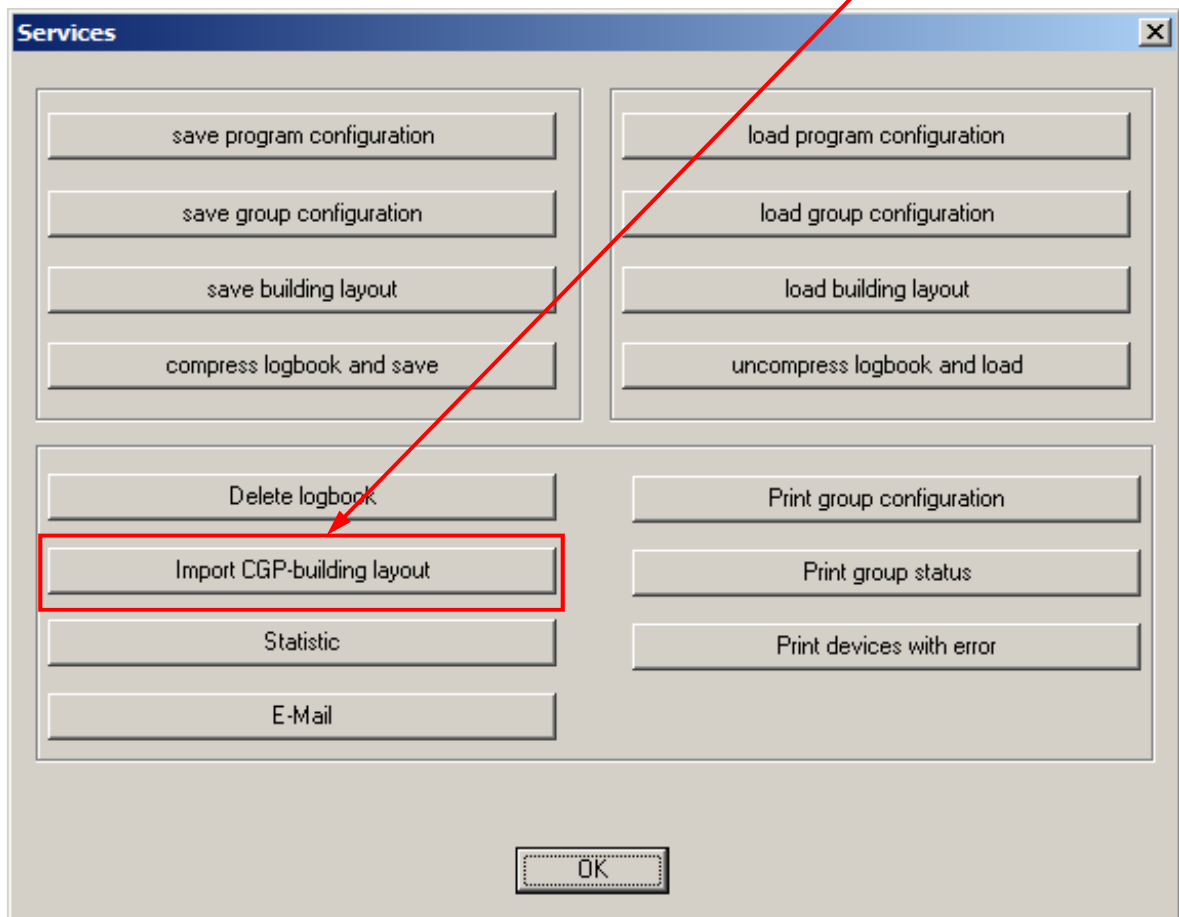


15.4 CGP data import of a layout programming

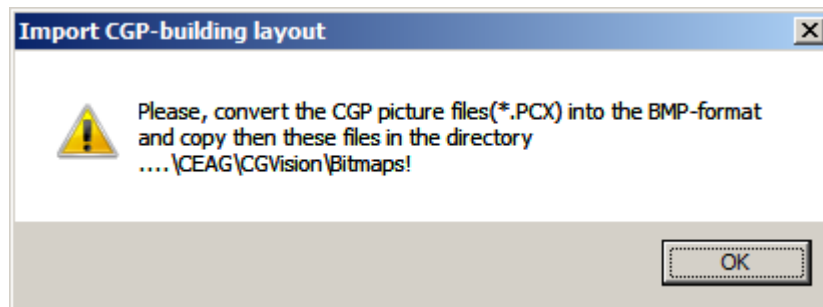
When replacing a CGP with an existing layout programming by CGVision, it is possible to import the existing CGP layout programming into CGVision.

Setting up:

1. Because the source images of the CGP layout programming exist in .pcx format in size 640 x 460 pixels, it is necessary to first convert these to .bmp format. This is very simple by using conventional graphic programmes.
2. The images must then be copied to the CGVision target directory:
C:\Programs\CEAG\CGVision\BITMAPS
3. In the Services menu in the system group screen, clicking on the 'Import CGP layouts' button triggers the import of the luminaire data.

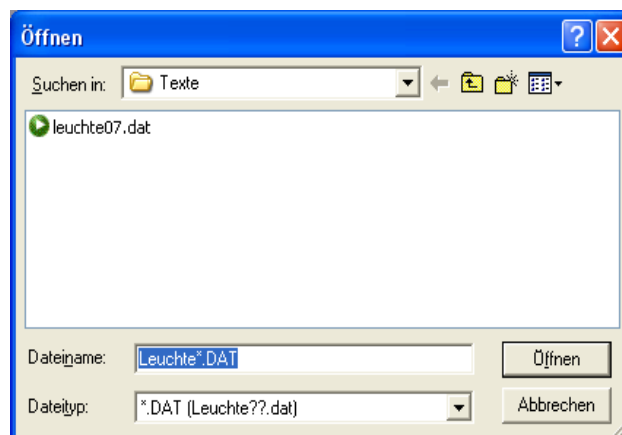


4. After clicking on the button the following message is displayed:

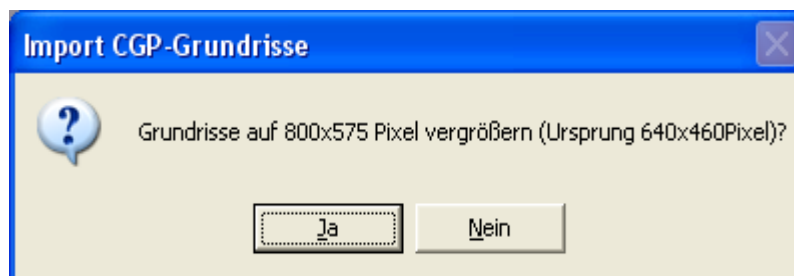


5. Source images of the CGP have been copied into the target directory of CGVision as described in point 1).

6. After clicking on OK, the correct target directory must be specified into which the Leuchtexx.dat was copied from the CGP. (Typical Floppydrive A:/)



7. After correct selection the following window appears. Because the CGP images have 640x460 pixel size, it is possible to enlarge these to 800x575 pixels.



8. After confirming with 'Yes' the conversion and import of the luminaire data is started and exited. The layout images can now be used as described above.



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For the monitoring and control of
CEAG emergency lighting systems

CGVision from V6.30

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Section 16
F3 interface for connecting
an F3 remote indication

16 F3 interface

16.1 General information

Section 16 describes the connection of an F3 remote indication to the CGVision via an F3 interface. The F3 interface concerns a digital I/O module to which the F3 remote indication can be directly connected to. As digital I/O module, either the F3 interface (part number: 40071347138) for installation in a distributor, the I/O interface connection box (4007136025) or the I/O ethernet module (40071360115) can be used.

The F3 remote indication has three LED displays for showing the following common status messages of all emergency lighting systems connected to CGVision, and a key switch:

- green LED = operation

at least 1 emergency lighting system connected to CGVision is ready for operation (corresponds to output 2 at the F3 interface)

- yellow LED = battery operation

at least 1 emergency lighting system connected to CGVision is in battery operation, e.g. during mains failure or in test (corresponds to output 3 at the F3 interface)

- red LED = common system fault prio.1

at least 1 emergency lighting system connected to CGVision has a fault incl. luminaire fault (corresponds to output 1 at the F3 interface)

- Key switch for blocking function

In addition the F3 remote indication has a key switch that enables blocking of all emergency lighting systems connected to CGVision via a digital input of the F3 interface, for example during idle operating times. (corresponds to input 1 at F3 interface, or input 8 at I/O ethernet module)

The remaining outputs are occupied for further status messages in CGVision.

F3 interface (or I/O interface connection box):

output 4 = common system fault prio.2

output 5 = test is running (function test or duration test)

I/O ethernet module:

output 4 = common system fault prio.2

output 5 = test is running (function test or duration test)

Both modules can also be operated in parallel in CGVision.

The use of both modules is a combination with logical „or“ functionality of described sections.

16.2 F3 interface (I/O interface connection box)

16.2.1 General information about the F3 interface (I/O interface connection box)

The F3 interface has 4 digital inputs (24V) and 5 relay outputs (max. 230V/ AC, 8A). Connection to CGVision is via the CG-S bus, meaning it can be connected to the CG-S bus parallel to the ZB-S or CG2000, or with autonomous operation requires the CG-S/USB interface. Routing via the ethernet with the aid of CG-S/IP routers can be simply implemented.

The module is designed for mounting to a DIN rail with installation in the distributor. Supply is via 24V/DC, e.g. via the DC-DC converter. (Observe maximum load with use of further DLS bus modules.)

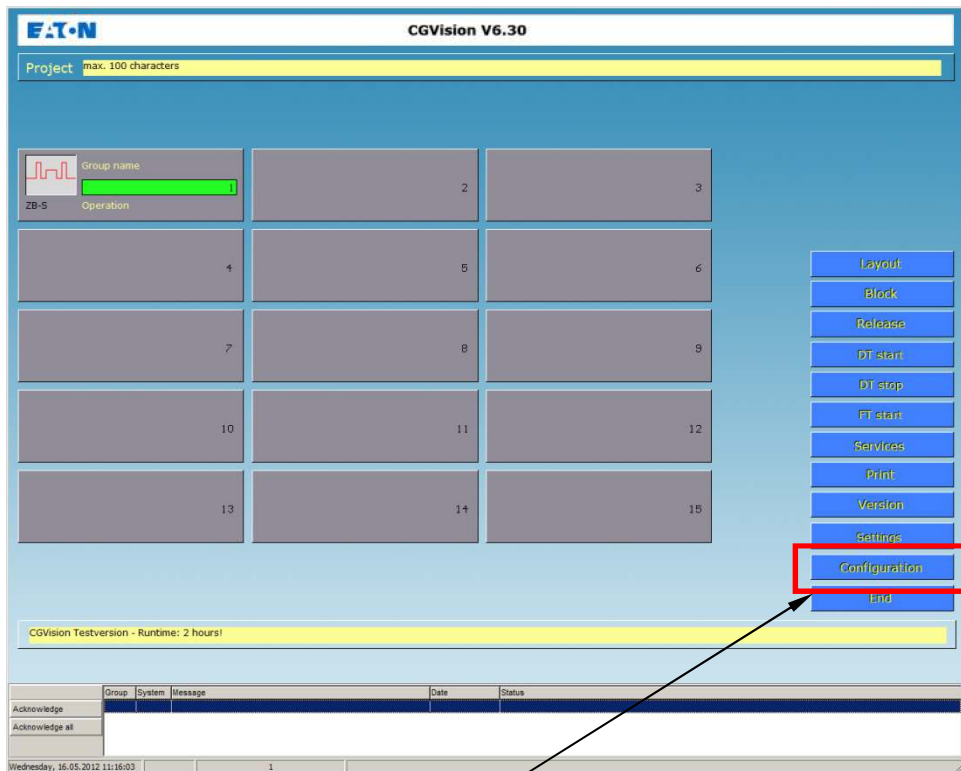
The I/O interface connection box consists of an the F3 interface and a 24V power supply unit, installed in a surface-mounted wall housing for simple wall mounting.

The F3 remote indication can be directly connected. For more detailed information, please consult the F3 remote indication instruction manual.

Figure: CGVision with F3 remote indication via F3 interface (I/O interface connection box)



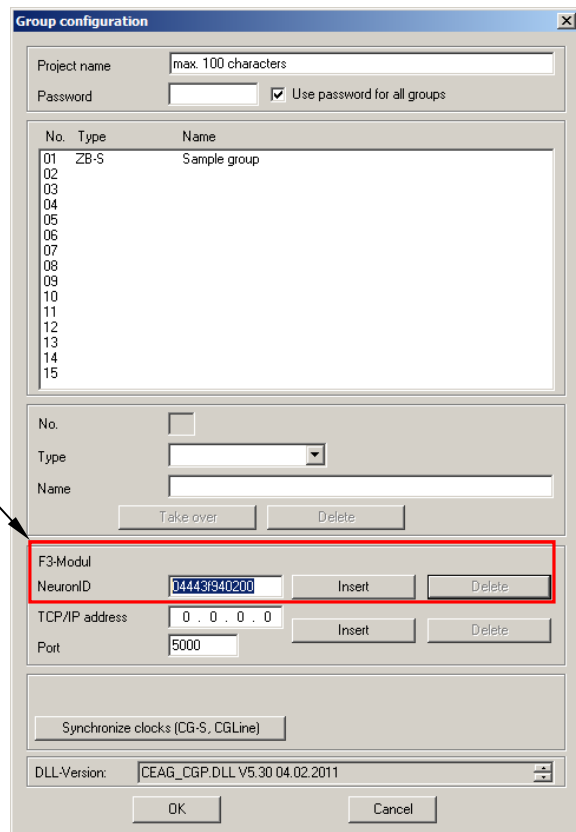
16.2.2 Activating the F3 interface in CGVision

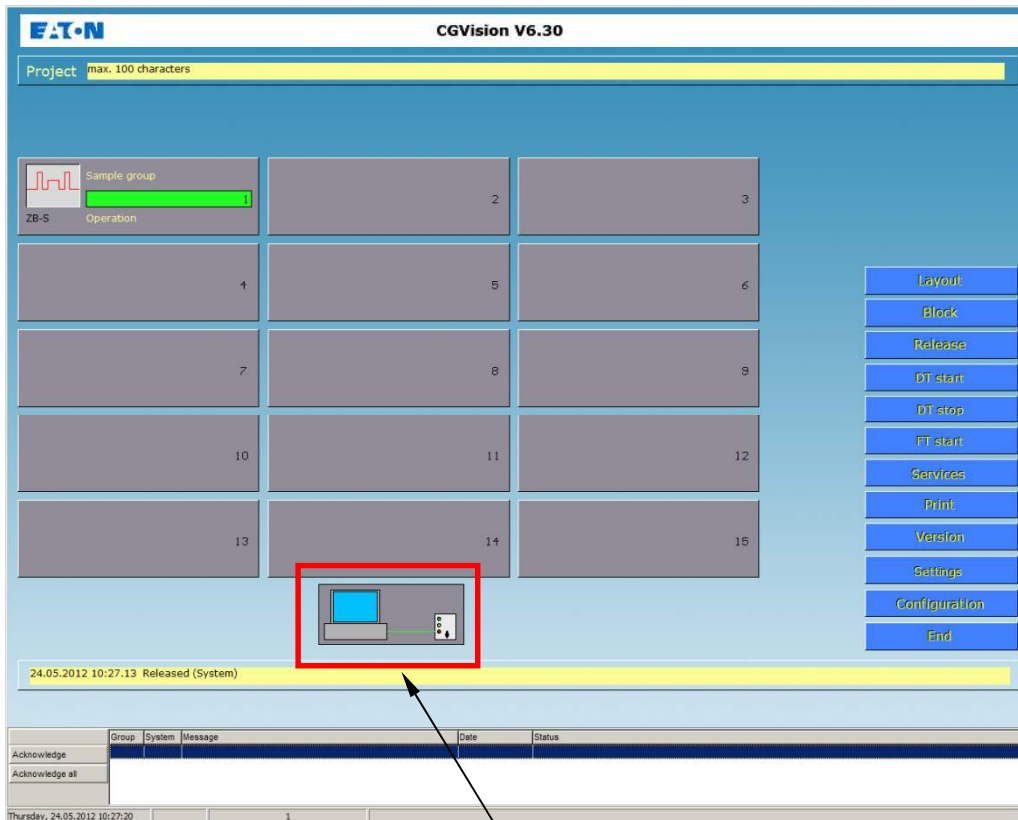


An F3 interface can be created via the 'Configuration' menu.

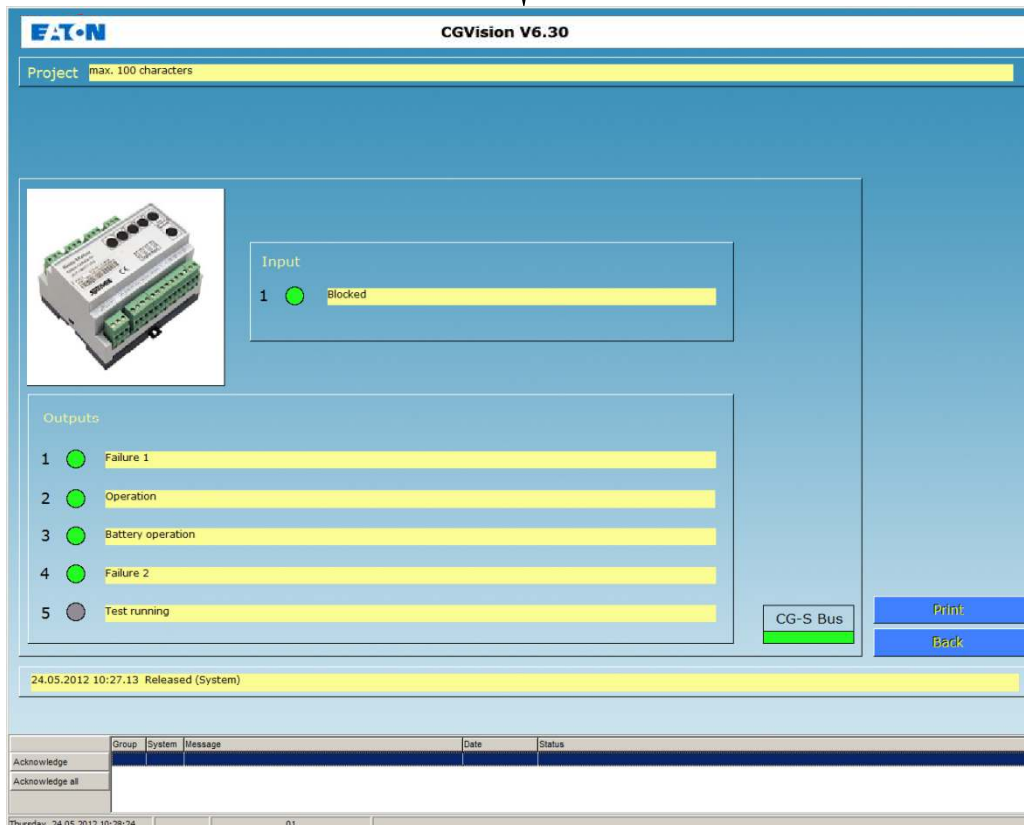
The 'group configuration' window is displayed. The 12-character Neuron ID must now be entered for creating an F3 interface. This is on the label on the F3 interface.

The module is created with 'Add'. After clicking on OK the information appears for limitations with EGA devices. After clicking on OK, CGVision must be restarted.



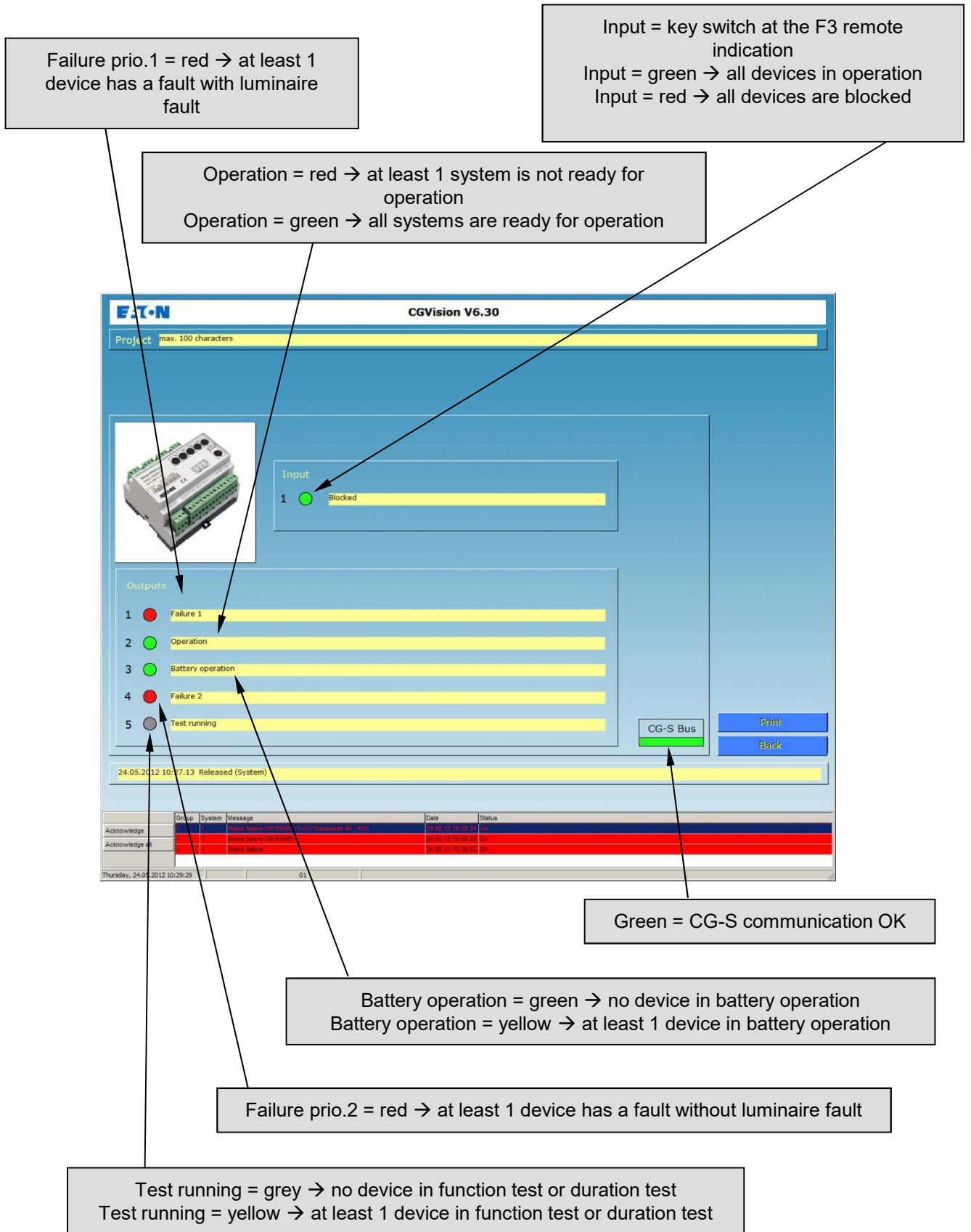


After restarting CGVision, the F3 interface is displayed on the main group screen. The green line displays functional communication between CGVision and the F3 interface. If the symbol is clicked on the F3 interface screen is displayed.



16.2.3 Structure of the F3 interface device screen:

Example:



16.3 I/O ethernet module

16.3.1 General information about the I/O ethernet module

Note: A dongle license e.g. combination license (dongle) is required for using the I/O ethernet module with CGVision.

Without a dongle, only demonstration operation for 2 hours is possible.

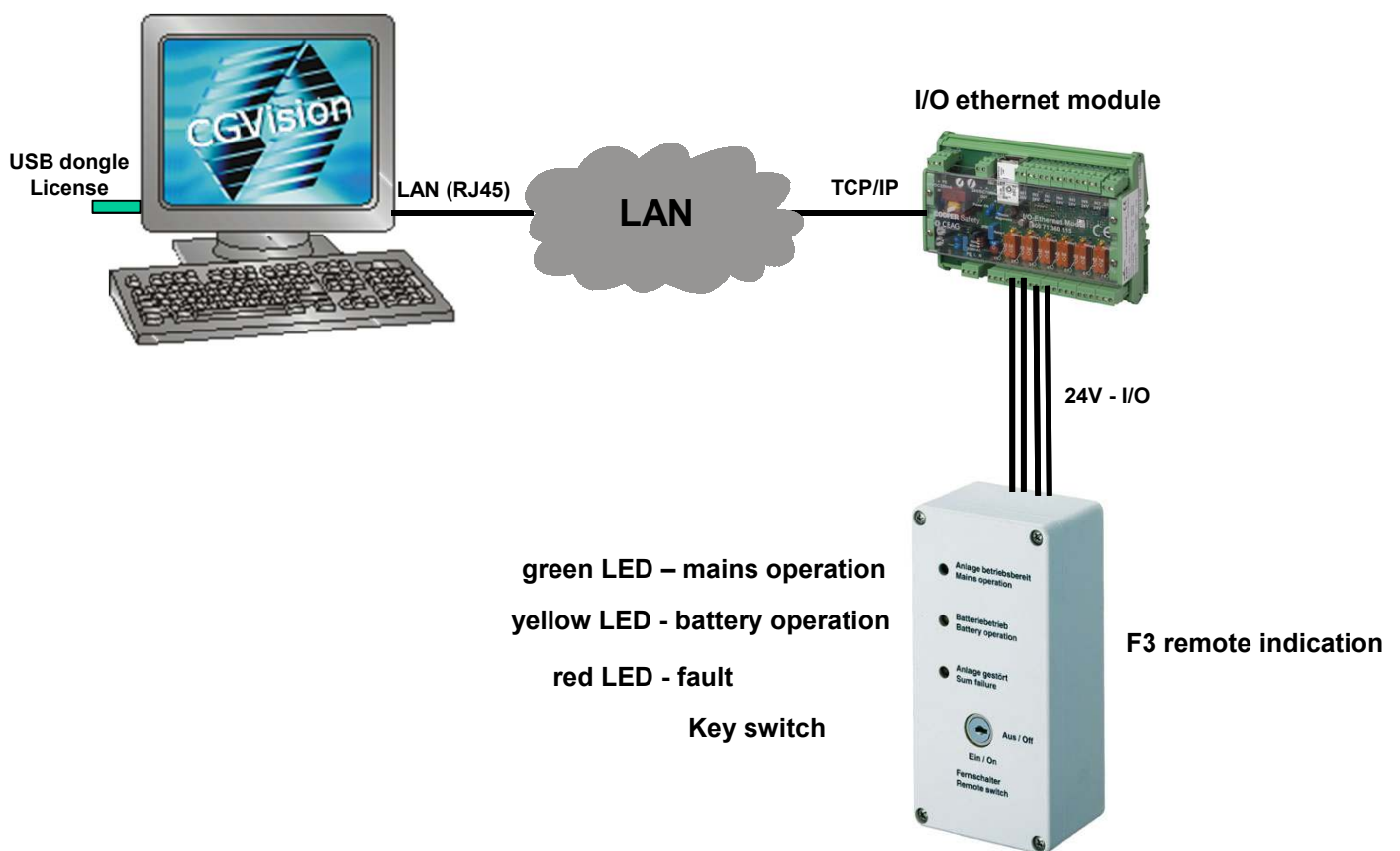
The I/O ethernet module is a digital I/O module with 8 digital inputs (24V) and 5 relay outputs. (max. 24V/ AC, 1A).

Connection to CGVision is via the LAN port (RJ45), meaning typically via an ethernet.

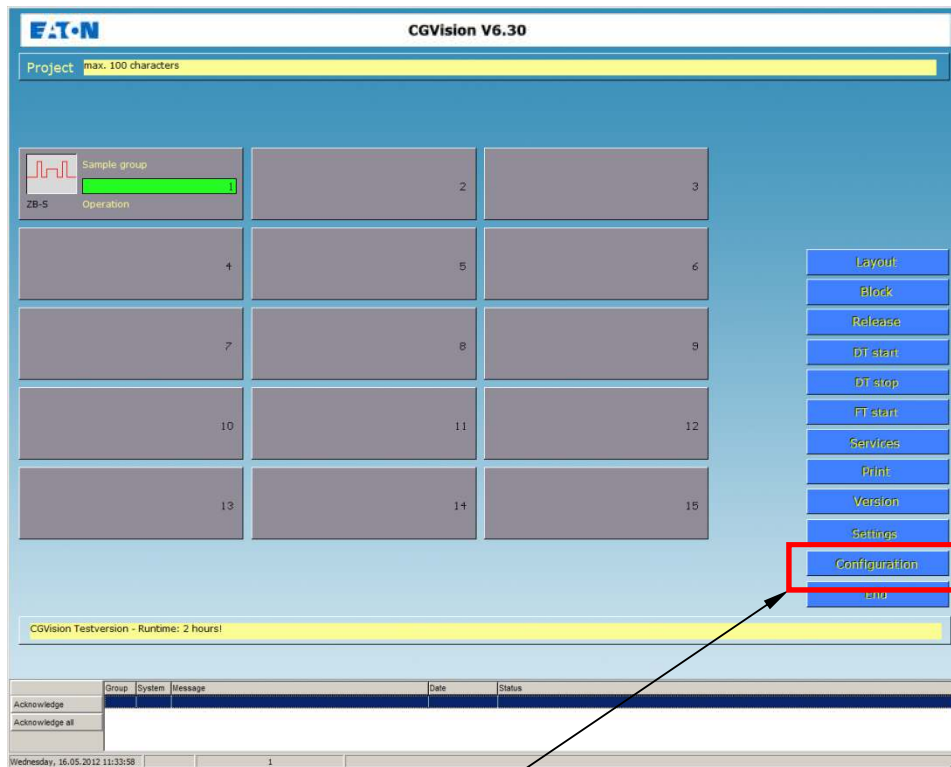
The module is designed for mounting to a DIN rail with installation in the distributor. Supply is via 24V/DC, e.g. via the DC-DC converter. (Observe maximum load with use of further DLS bus modules.)

The F3 remote indication can be directly connected. Please consult the instruction manual of the I/O ethernet module for more information.

Figure: CGVision with F3 remote indication via I/O ethernet module



16.3.2 Activating the I/O ethernet module in CGVision



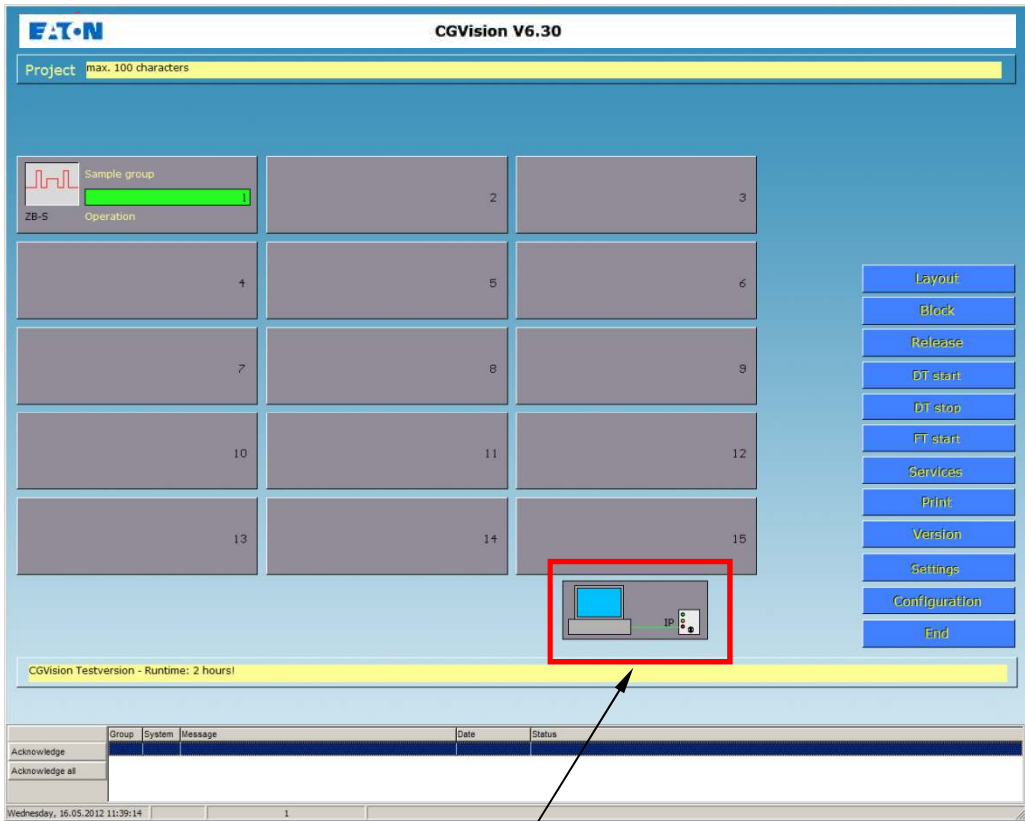
An I/O ethernet module can be created via the 'Configuration' menu.

The 'group configuration' window is displayed. The IP address must now be entered to create the I/O ethernet module.

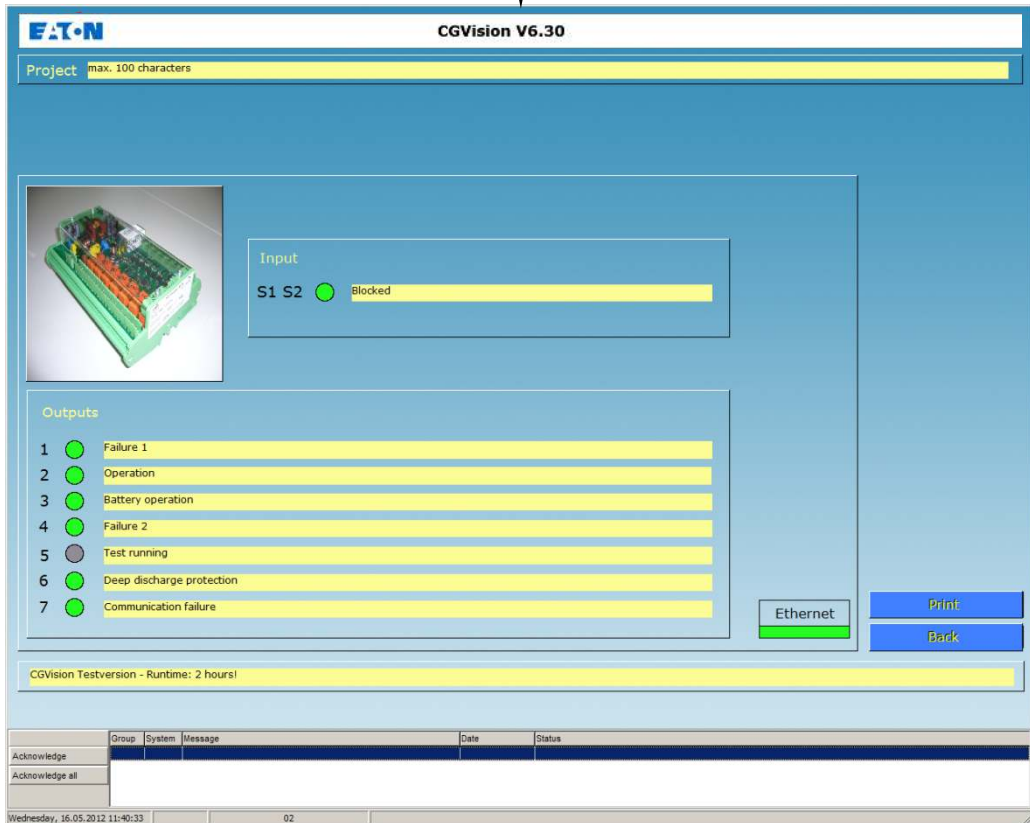
As the standard address the IP: 192.168.1.200 is assigned. Please consult the module manual for modifying the address.

The module is created with 'Add'. After clicking on OK the information appears for limitations with EGA devices. After clicking on OK, CGVision must be restarted.

The 'Group configuration' dialog box is shown. It has a title bar with a close button. The 'Project name' field is labeled 'max. 100 characters'. The 'Password' field has a checkbox for 'Use password for all groups'. Below this is a table with columns 'No.', 'Type', and 'Name'. The table contains one row: '01 ZB-S Sample group'. Below the table are fields for 'No.', 'Type', and 'Name', with 'Take over' and 'Delete' buttons. The 'F3-Modul' section has 'NeuronID' with 'Insert' and 'Delete' buttons. The 'TCP/IP address' field is highlighted with a red box and contains '192.168.1.200', with 'Insert' and 'Delete' buttons. The 'Port' field contains '5000'. At the bottom, there is a 'Synchronize clocks (CG-S, CGLine)' button, a 'DLL-Version' dropdown showing 'CEAG_CGP.DLL V5.30 04.02.2011', and 'OK' and 'Cancel' buttons.



After restarting CGVision, the I/O ethernet module is displayed in the main group screen. The green line displays functional communication between CGVision and the F3 interface. If the symbol is clicked, the device screen is displayed.



16.3.3 Structure of the F3 interface (I/O ethernet module) device screen:

Example:

Fault prio.1 = red → at least 1 device has a fault with luminaire fault

Input = key switch at the F3 remote indication
 Input = green → all devices in operation
 Input = red → all devices are blocked

Operation = red → at least 1 system is not ready for operation
 Operation = green → all systems are ready for operation

The screenshot shows the EATON CGVision V6.30 interface. At the top, there is a 'Project' field with a 'max. 100 characters' limit. Below this is a large status area with several indicators: 'Input' (S1 S2) with a green dot and 'Blocked' text; 'Output' with a list of 7 items: 1 Failure 1 (red dot), 2 Operation (red dot), 3 Battery operation (green dot), 4 Failure 2 (red dot), 5 Test running (grey dot), 6 Deep discharge protection (green dot), and 7 Communication failure (green dot). To the right of the output list are 'Ethernet', 'Print', and 'Back' buttons. At the bottom, there is a message log table with columns for Group, System, Message, Date, and Status. The log shows several messages with red status bars.

Green = communication OK

Battery operation = green → no device in battery operation
 Battery operation = yellow → at least 1 device in battery operation

Fault prio.2 = red → at least 1 device has a fault without luminaire fault

Test is running = grey → no device in function test or duration test
 Test is running = yellow → at least 1 device in function test or duration test

Total discharge protection = red → at least 1 system is in total discharge protection

Communication = red → at least 1 device has a communication fault to CGVision



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CGVision from V6.40

40071347386 (A)



Section 17
Device family EasiCheck

17 Device family EasiCheck

Foreword

CGVision allows a simple monitoring of EasiCheck control panels. Up to 32 EasiCheck control panels in max. 15 groups can be connected to CGVision, each with max. 250 EasiCheck luminaires. In total up to 120,000 EasiCheck luminaires can be visualised via CGVision.

Following EasiCheck panels are supported on CGVision:

OLD PANELS

EC1001NC - self-contained panel (old style) for integral batteries networked.

EC1002NC – slave panel (old style) for central batteries networked.

NEW PANELS

EC2001NC - self-contained panel (new style) for integral batteries networked.

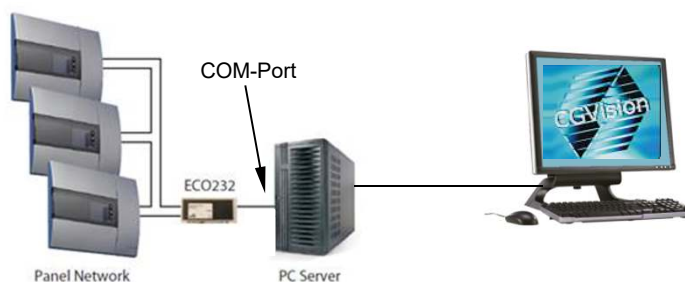
EC1002TSNC - slave touchscreen panel (new style) for central batteries networked.

To install more than one EasiCheck panel in one device group, a network of EasiCheck panels within one group is necessary. This is only possible with EasiCheck panels with integrated networkcard, which are connected together to one EC0232 box.

Max. 32 pcs. EasiCheck panels networked on one EC0232 box.

Max. 15 pcs. Networked EasiCheck groups on one CGVision.

Schematic with one networked group:



Important information:

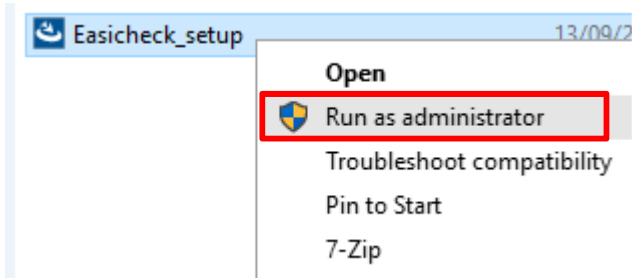
- The installation and operation of CGVision for EasiCheck must be done with Admin-rights on CGVision installation path!
- A parallel operation of CGVision and EasiCheck Site monitor software is not possible.
- To connect an EasiCheck panel to CGVision an EC0232 box is required.
- The connection of an EC0232 box to the CGVision PC will be done via a RS232 connection (COM-Port with DB9 plug).
- USB to COM-Port converter are available as an option.

17.1 Installation of CGVision V6.40 for EasiCheck

The CGVision for EasiCheck panels must be done in two steps:

1. Installation of EasiCheck Service software

With right mouseclick on Easichck_setup.exe → Run as Administrator

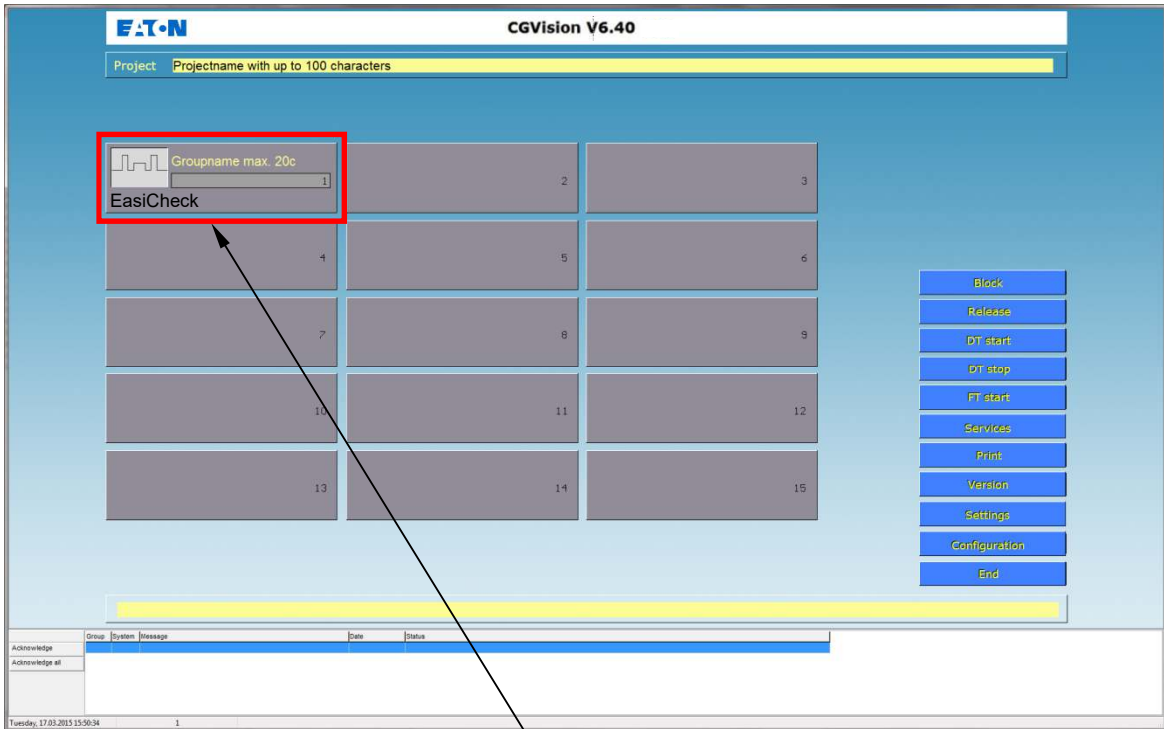


and follow the installation notes.

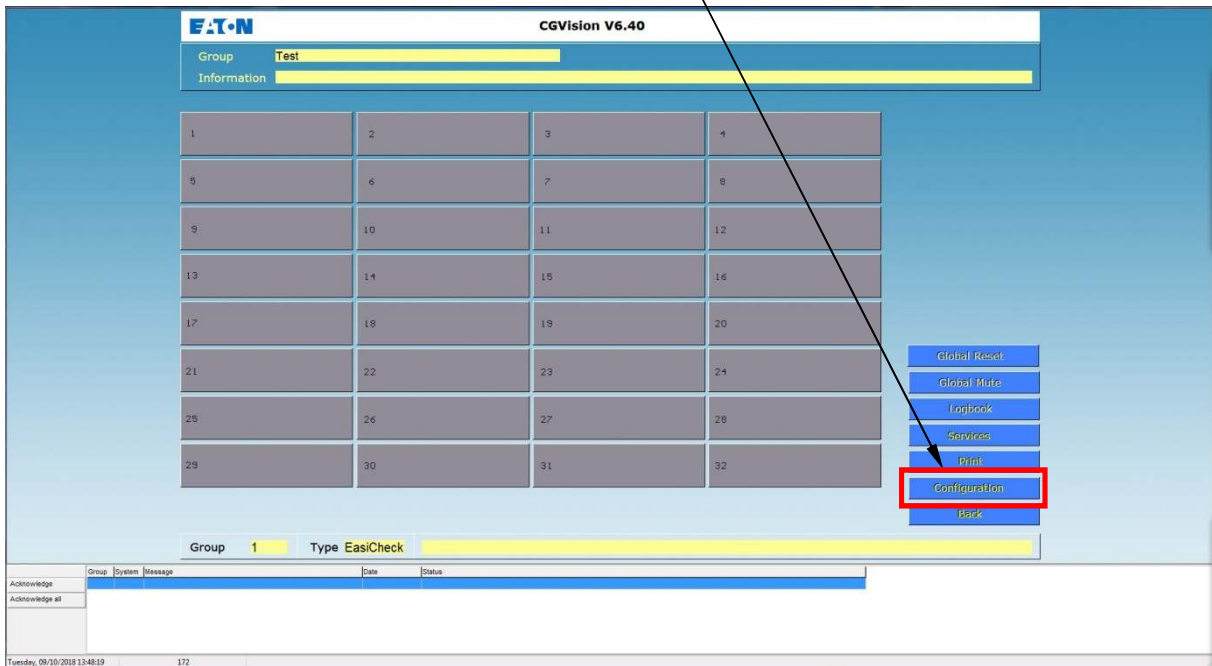
2. Installation of CGVision V6.40

Start the installation of the CGVision.exe as Administartor as well, and follow the installation notes through the complete installation process. For detailed system requirements and installation instructions please see “Section 1 - Introduction and system requirements” and “Section 2 - Installation instructions”

The installation group is now added and appears in the "Main Group Image"



The "Device Group Image" opens when you click on this group. Via the "Configuration" menu up to 32 EasiCheck panels can now be installed.



The following group configuration menu appears:

Set password protection for this group. The password is requested as soon as commands, e.g. configuration settings are made. The status display for the EasiCheck panel and connected devices is possible without a password!

To e-mail settings menu. See section 14
CGVision e-mail function

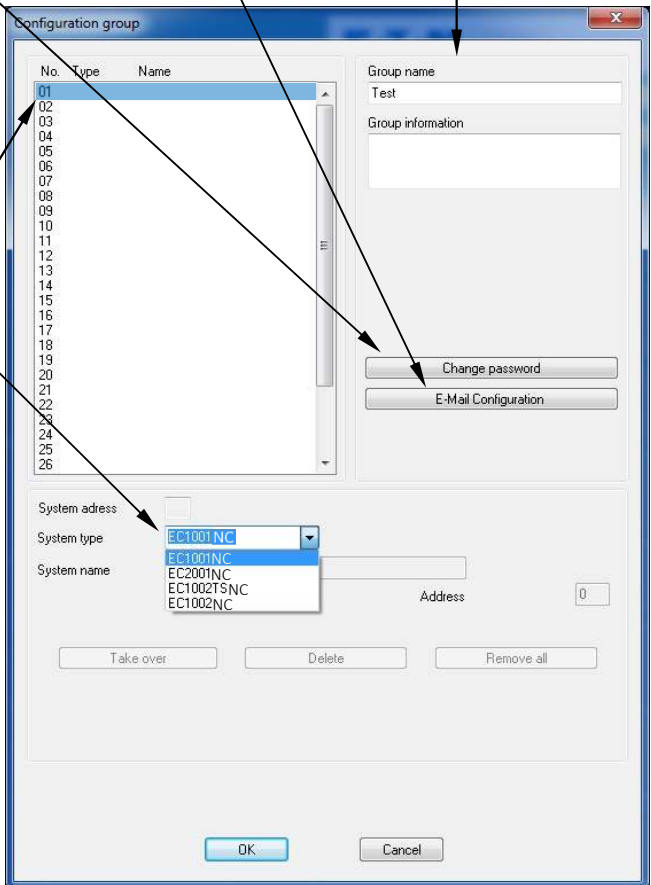
Entry fields for the group names (max. 20 digits) and additional group information (max. 100 digits)

a) A device address must first be defined in the device selection window, by selecting the corresponding number (marked in blue).

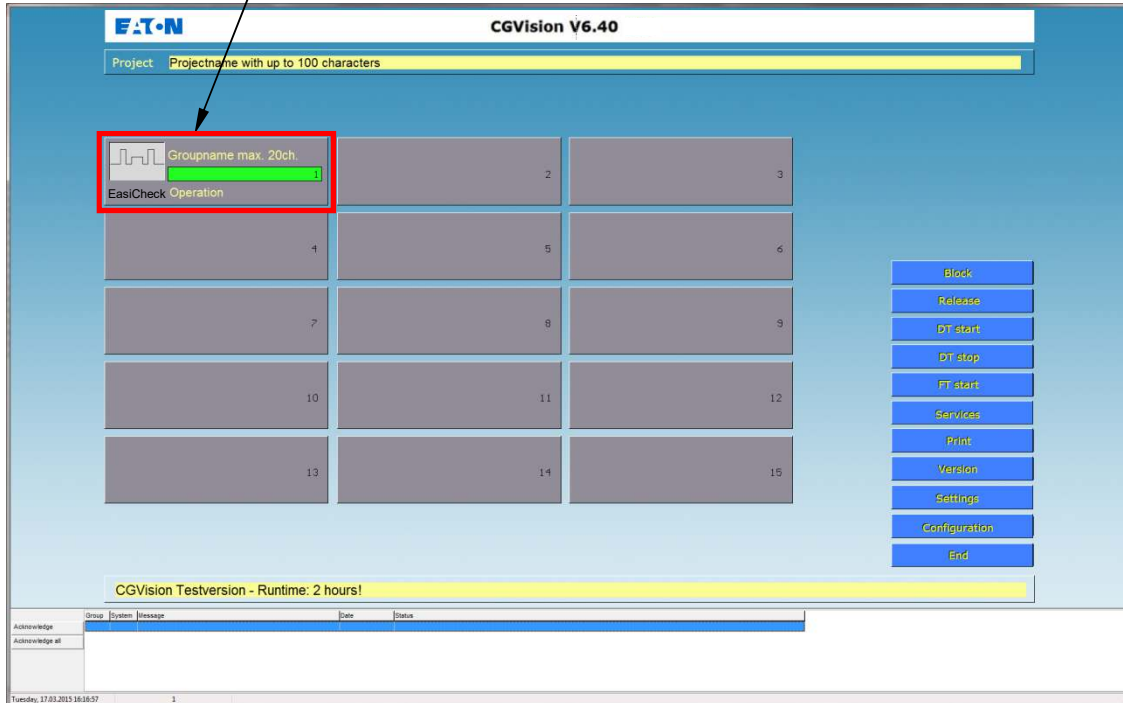
b) In the "System type" drop-down menu it is now necessary to select the right EasiCheck panel.

Confirm with "Take over", add further devices in the same way, or finish by clicking "OK"

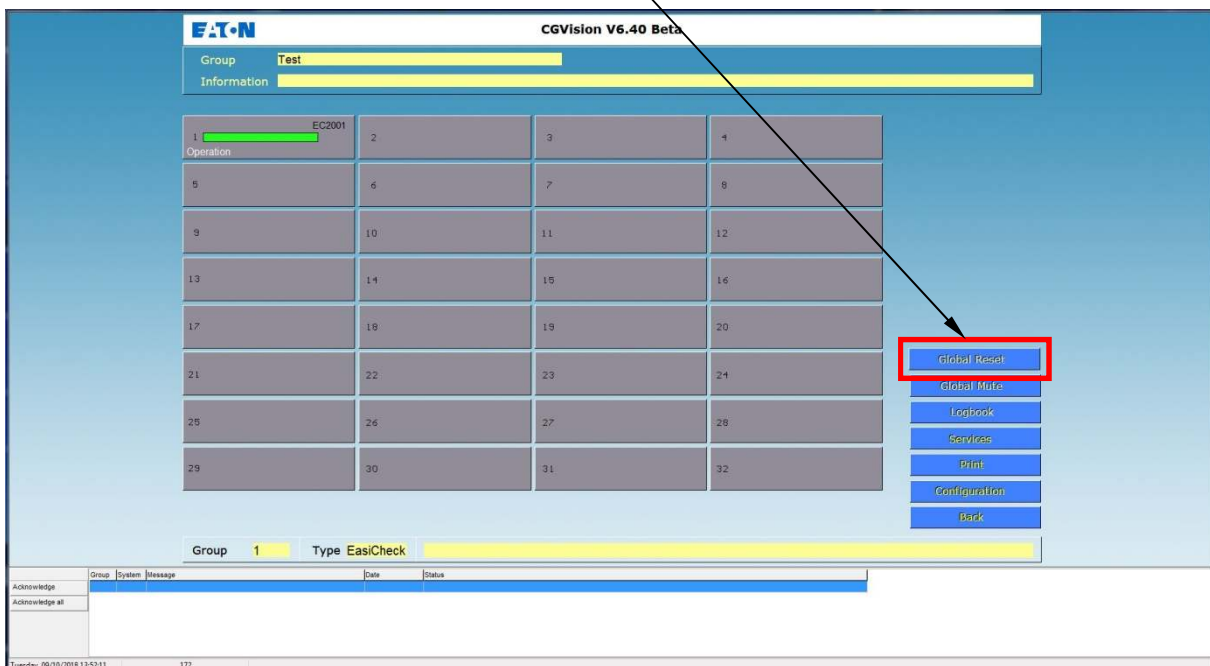
An automatic restart of CGVision is now necessary!

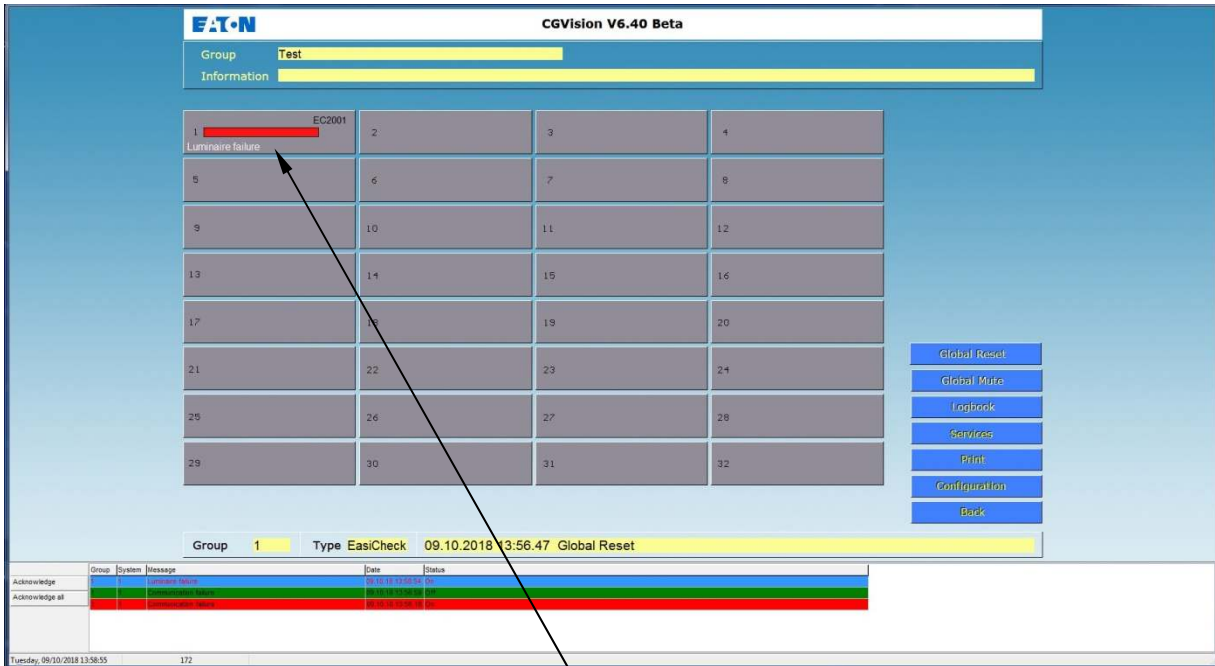


Following the restart of CGVision the devices installed appear with type designation in the relevant button. This button is now active and shows the operational status via colour code, e.g. green = operational, red = malfunction, yellow = function or operating time test active. By clicking on the group device button the "Device Image" opens up.

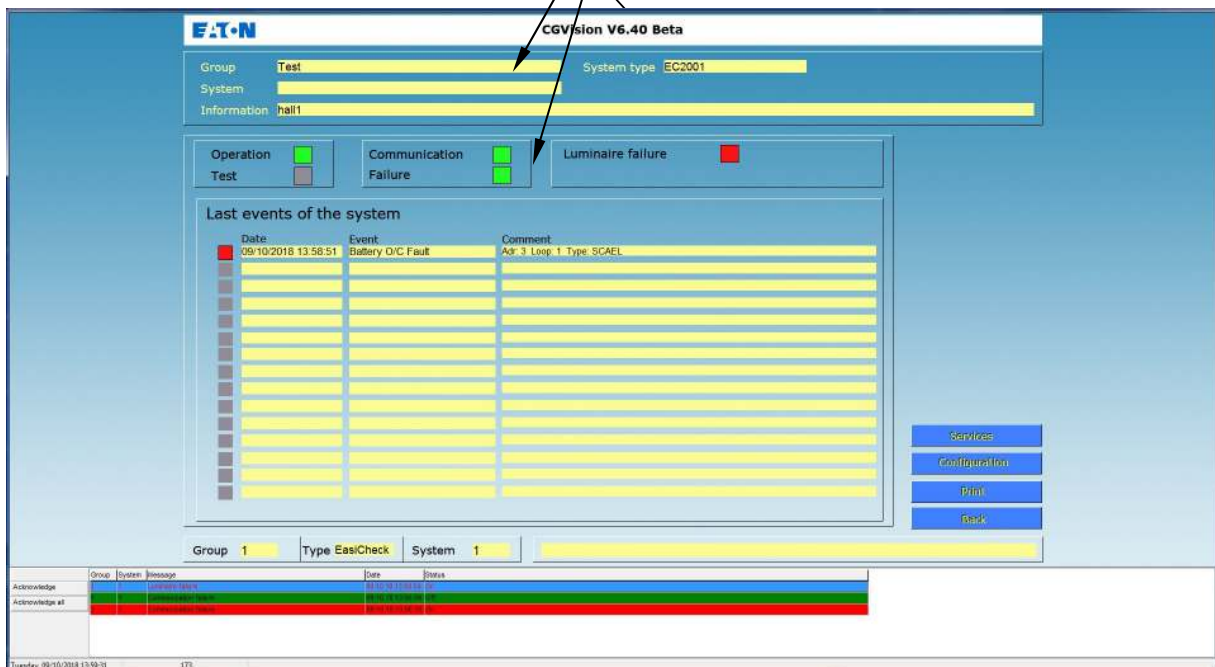


After first start up, the EasiCheck panel generates a communication failure after 5-6 minutes, which must be reset with a Global Reset button.

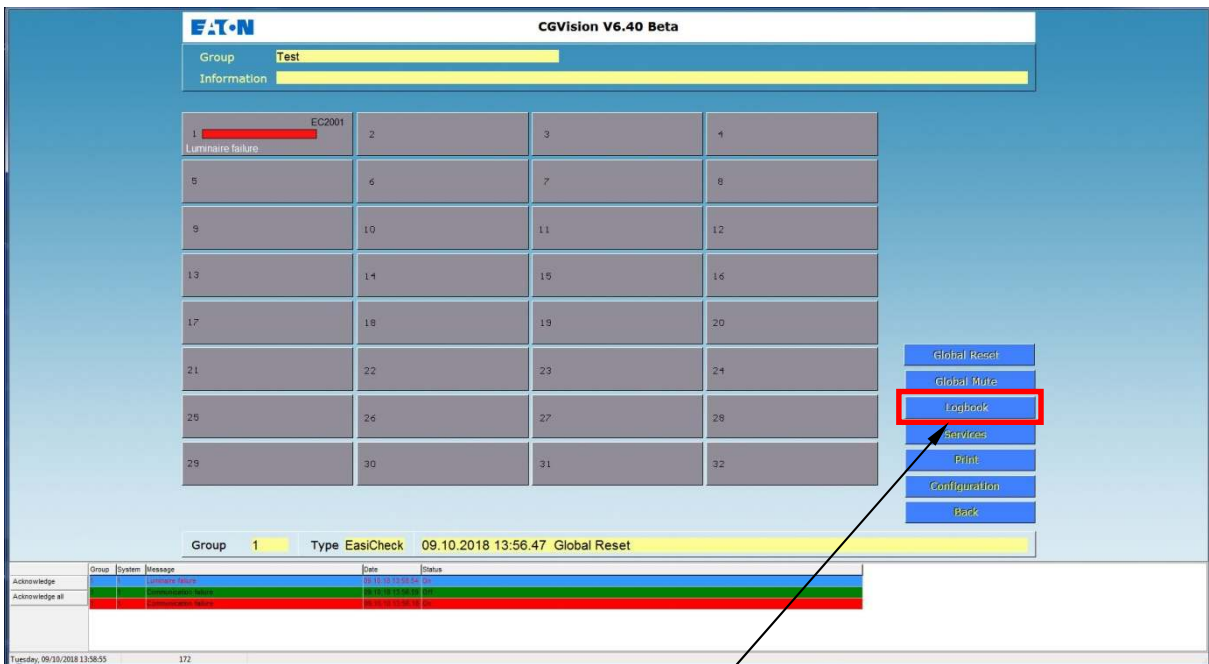
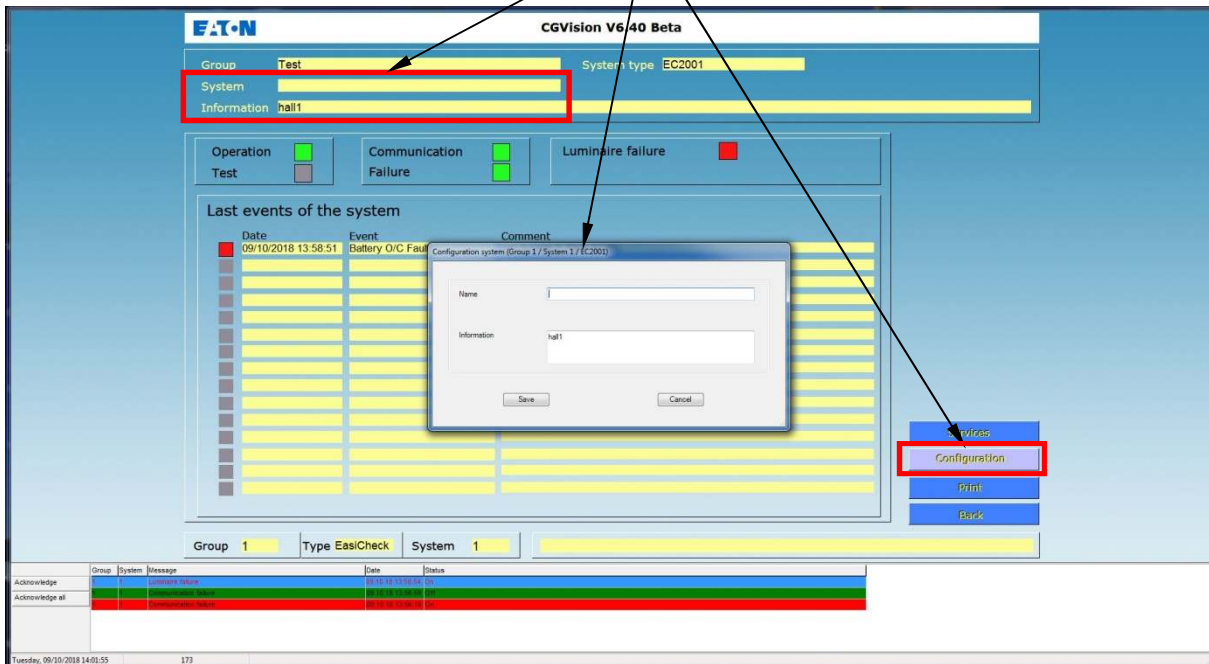




After the Global Reset the communication is now stable. With click to the EasiCheck panel, the device picture appears, with status information of the panel, e.g. Test is running, and a list of the last 15 events with date, event type and comments to the event.



Via configuration it is possible to enter a panel name and additional information as free text



Via Logbook in the device group picture, it is possible to get complete historic information of all events.

Interested datas are: Date & Time stamp, EC System no. and Event

Logbook Group 1 EasiCheck

Logbook

System All

ID	Time	System	Address	Event ID	Event	Loop	Zone	Name	Type
10	17.08.2018 09:37:26			3	Global Reset			GlobalReset	
11	17.08.2018 09:37:31	1		10	Loop Fault				
1	17.08.2018 10:08:44	1	2	16395	Battery O/C Fault	1	1		SCAEL
2	17.08.2018 10:08:45	1	3	16395	Battery O/C Fault	1	1		SCAEL
3	17.08.2018 10:08:46	2		25	Network Fault				
4	17.08.2018 10:08:46	2		27	Network Card Set Address				
5	17.08.2018 10:08:47	2		27	Network Card Set Address				
6	17.08.2018 10:10:36			3	Global Reset			GlobalReset	
7	17.08.2018 10:10:40	1		10	Loop Fault				
8	17.08.2018 10:12:39	1	3	16395	Battery O/C Fault	1	1		SCAEL
9	17.08.2018 10:12:39	1	2	16395	Battery O/C Fault	1	1		SCAEL
10	17.08.2018 10:13:46	2		25	Network Fault				
11	17.08.2018 10:15:54			3	Global Reset			GlobalReset	
12	17.08.2018 10:15:59	1		10	Loop Fault				
13	17.08.2018 10:17:56	1	2	16395	Battery O/C Fault	1	1		SCAEL
14	17.08.2018 10:17:57	1	3	16395	Battery O/C Fault	1	1		SCAEL
15	17.08.2018 13:11:03	2		27	Network Card Set Address				
16	17.08.2018 13:11:03	2		27	Network Card Set Address				
17	17.08.2018 13:16:03	2		25	Network Fault				
18	17.08.2018 13:25:13			3	Global Reset			GlobalReset	
19	17.08.2018 13:25:18	1		10	Loop Fault				
20	17.08.2018 13:27:15	1	2	16395	Battery O/C Fault	1	1		SCAEL
21	17.08.2018 13:27:16	1	3	16395	Battery O/C Fault	1	1		SCAEL
22	27.08.2018 09:19:35	1		10	Loop Fault				
23	27.08.2018 09:19:36	1	2	16395	Battery O/C Fault	1	1		SCAEL
24	27.08.2018 09:19:36	1	3	16395	Battery O/C Fault	1	1		SCAEL
25	27.08.2018 09:19:37	2		27	Network Card Set Address				
26	27.08.2018 09:19:37	2		27	Network Card Set Address				
27	27.08.2018 09:24:37	2		25	Network Fault				

If desired, CGVision can send out E-Mails in case of events. For settings see Section 11 – CGVision E-Mail Function

CGVision: Program start Status group 01

Easichck_CGVision

Gesendet: Tue 09/10/2018 08:42

An:  Max sample

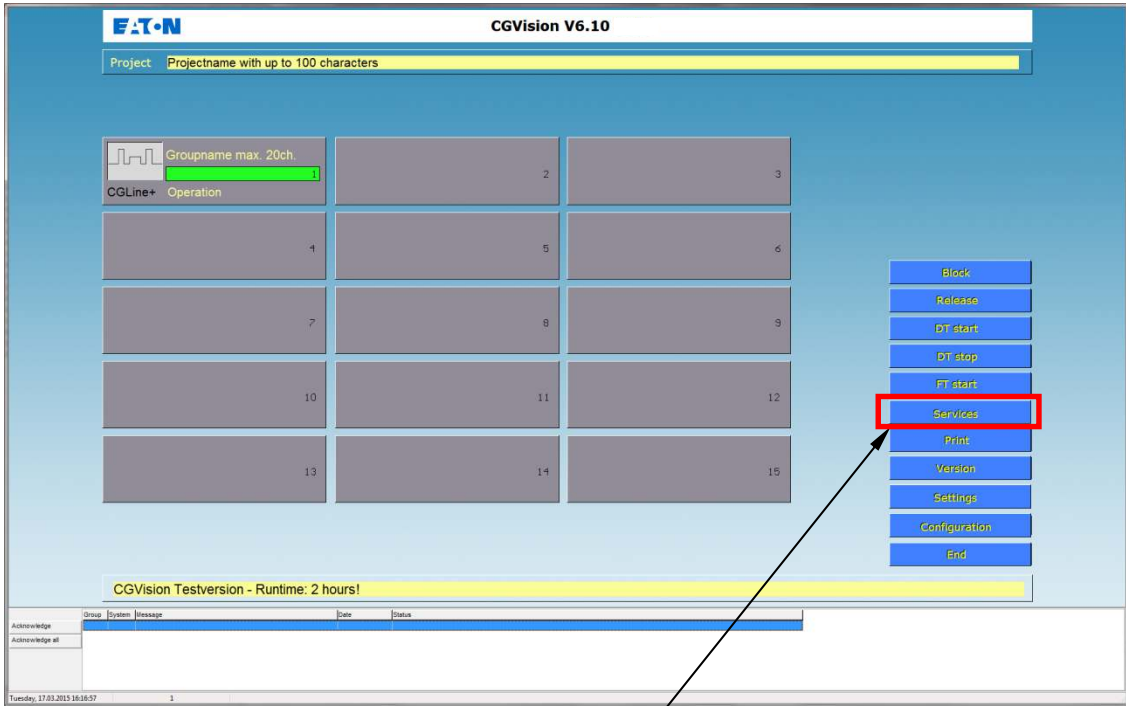
09.10.2018 - 08:42 CGVision 6.40B

CGVision Project name: NewTest

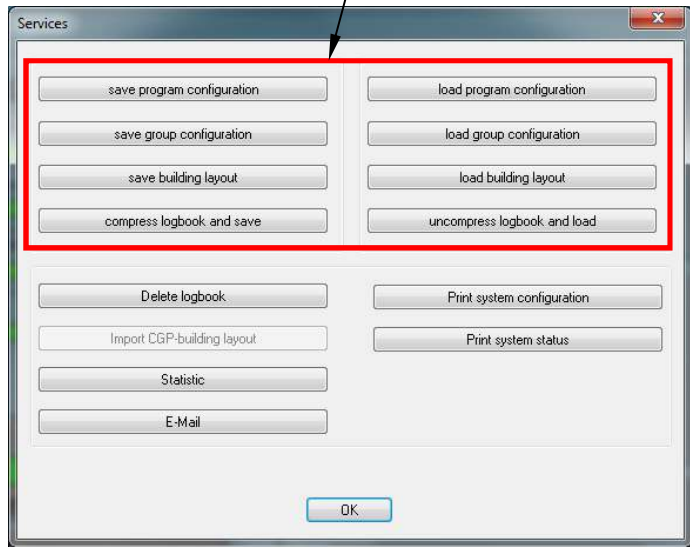
Group name: newtest, System type: EasiCheck

Program start Status group 01:

System adress 01, System name: , Status: Luminaire failure ,



Via Services it is possible to save and reload the program/group configuration and the Logbook.





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