



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 V5.10

400 71 347 387 (E)



Section 1

Introduction and system requirements

1 Introduction

These Rev.H 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:

- **CG2000**
- **ZB-S**
- **ZB96**
- **Euro ZB.1**
- **CG48**
- **GVL 24.1**
- **ZVL 220**
- **CGLine single battery system (max. 8 CGLine PC interfaces)**
- **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 2007)**
- **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**

1.1 System requirements

PC system requirements for CGVision software:

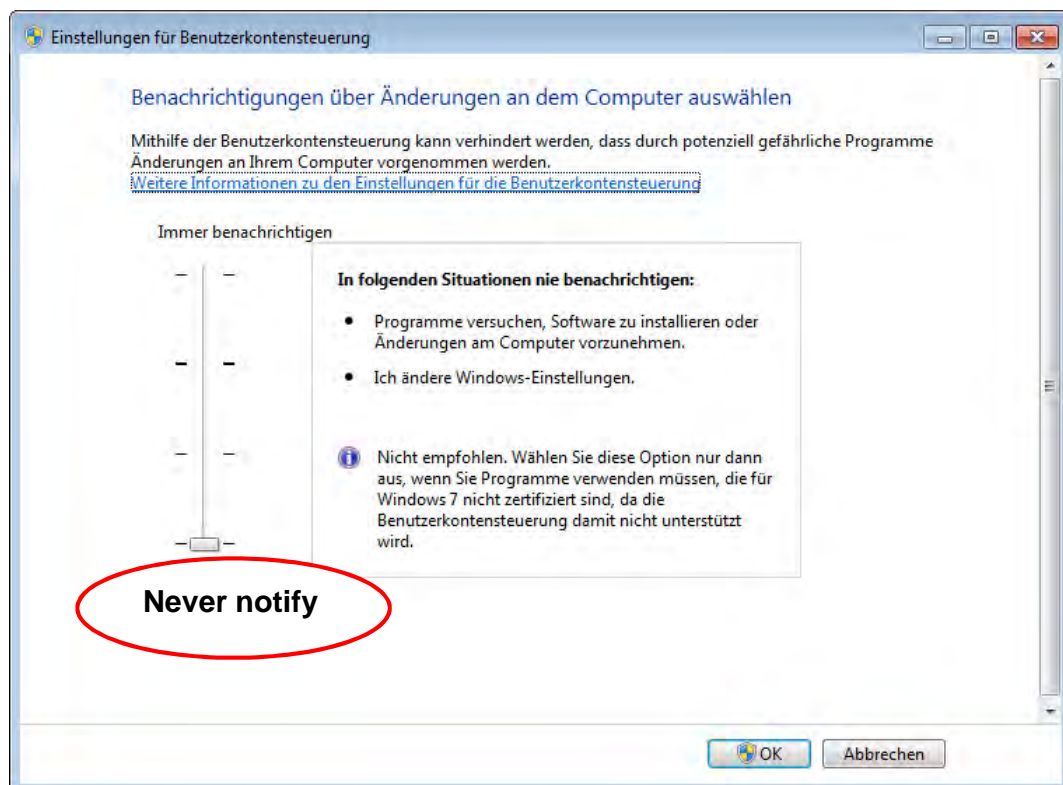
- WIN 2000, WIN XP, WIN 2003 Server, WIN 7 (note: please observe information below)
- Min. 2 GHz processor
- 2 GB RAM
- Graphics board with min. 128 MB RAM dedicated graphics memory
- 10 GB free hard disk storage
- CD ROM drive
- Up to 3 x free USB ports (CG-S/USB interface / dongle / printer)

Note: with WIN 7 operating systems, user account control must be deactivated before installation of CGVision!

Procedure:

System control → user accounts → modify setting of user account control:

Slider must be positioned at bottom on 'Never notify'!





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Section 2

Installation instructions

2 Installation instructions

Please note: read these instructions carefully before proceeding with the installation.

2.1 Complete installation

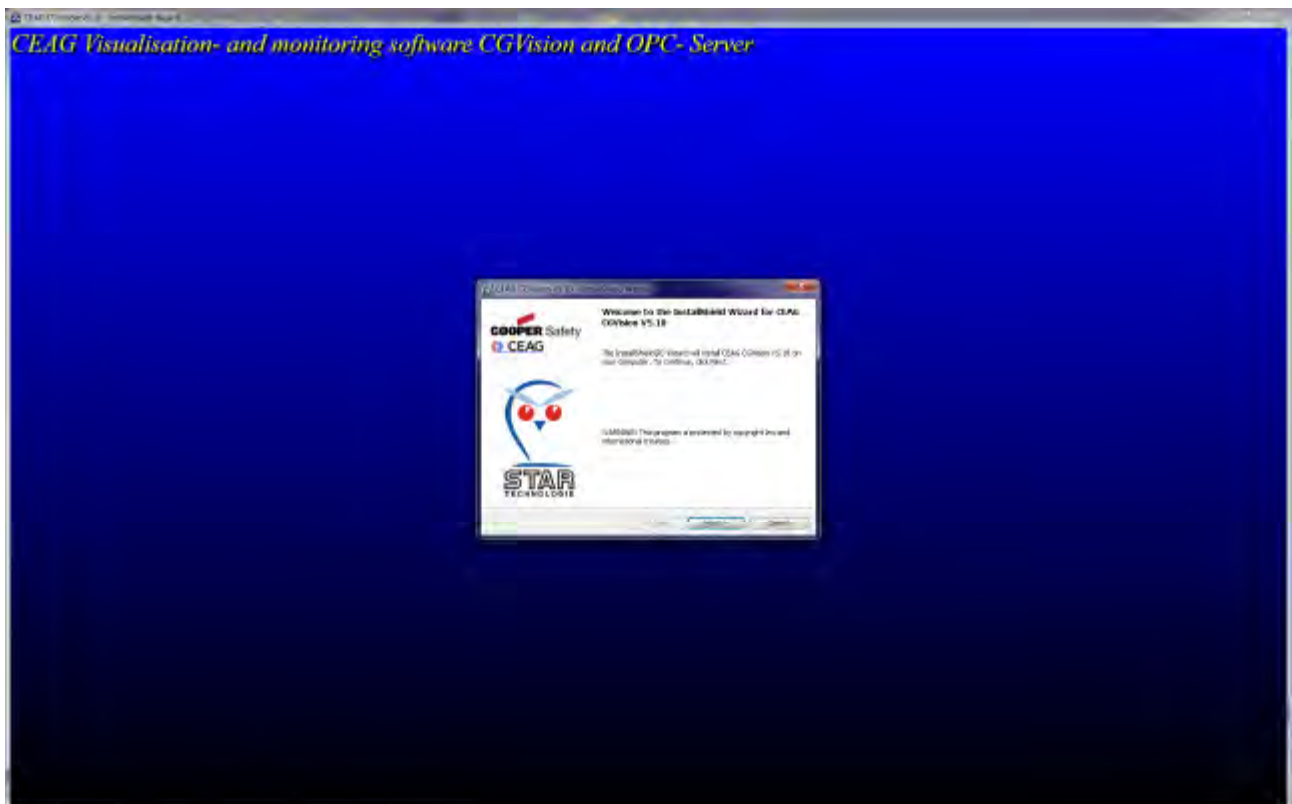
It is recommended to install CGVision and all available OPC servers even when these are not required at the time of installation. The OPC servers only occupy low hard disk capacity and with newly added emergency lighting systems can be rapidly activated without additional installation effort and without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

Installation of CGVision and OPC servers:

After inserting the installation CD, automatic setup begins and the following start screen appears:

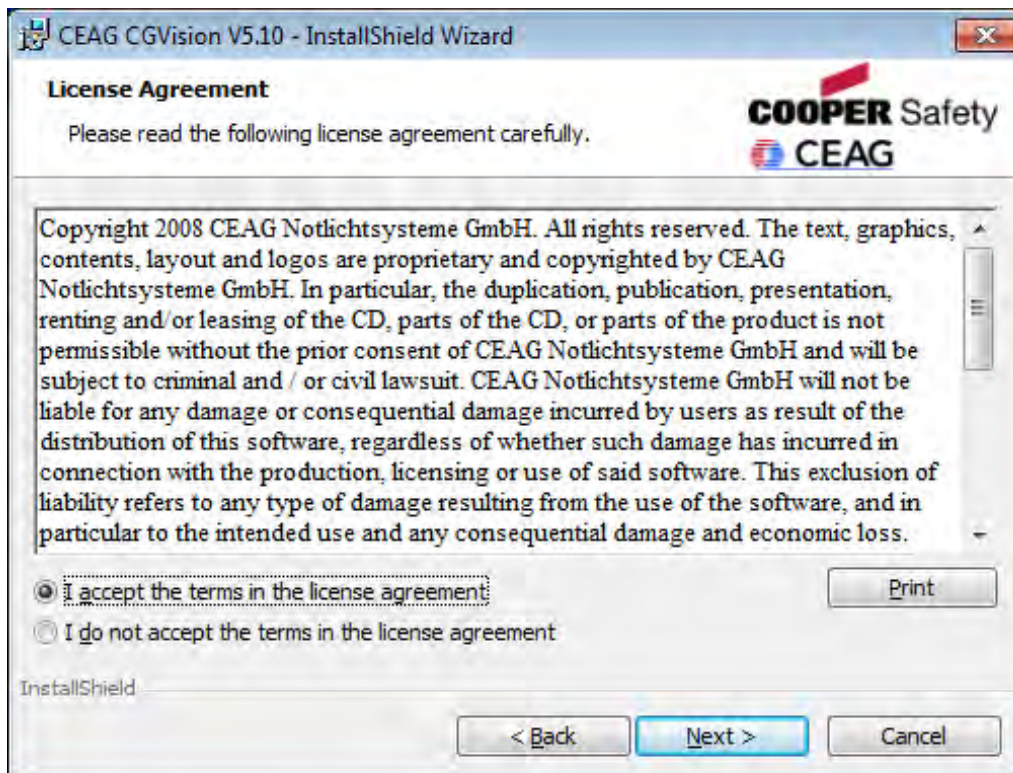
(Note: auto-setup function of the CD ROM drive must be activated.

Installation can also be manually started in Explorer via 'Setup.exe' in the CD ROM folder.)

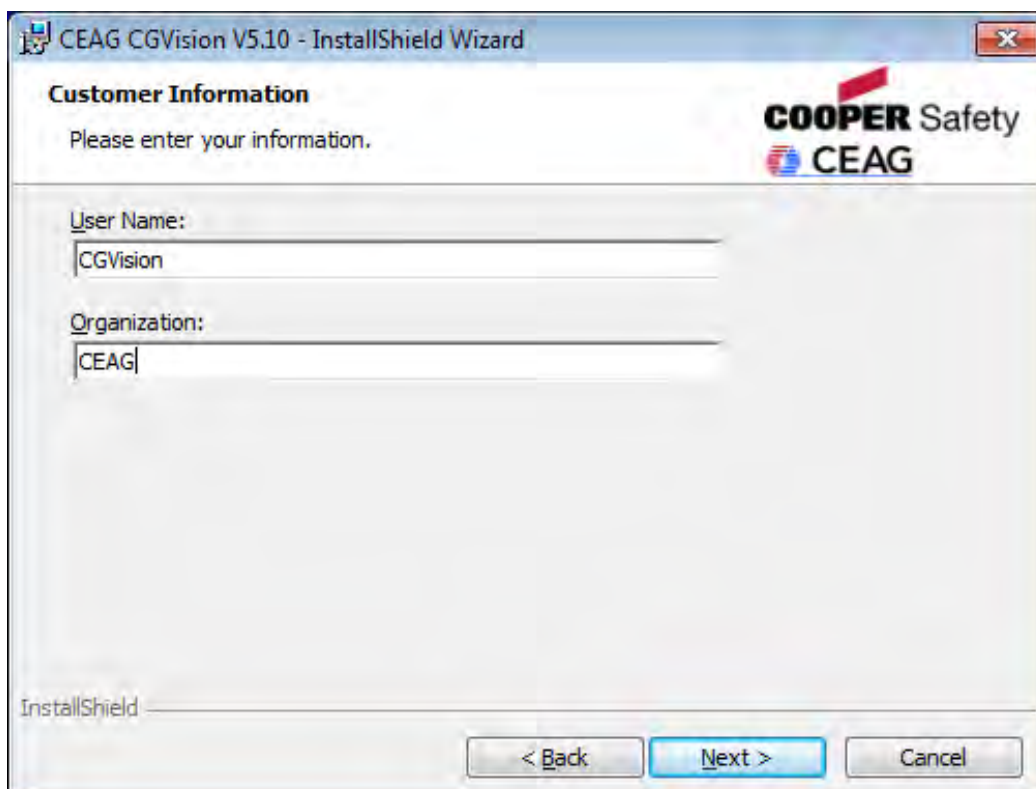


The installation assistant appears with specification of the current CGVision version (e.g. CGVision 5.10). Continue with 'Next'.

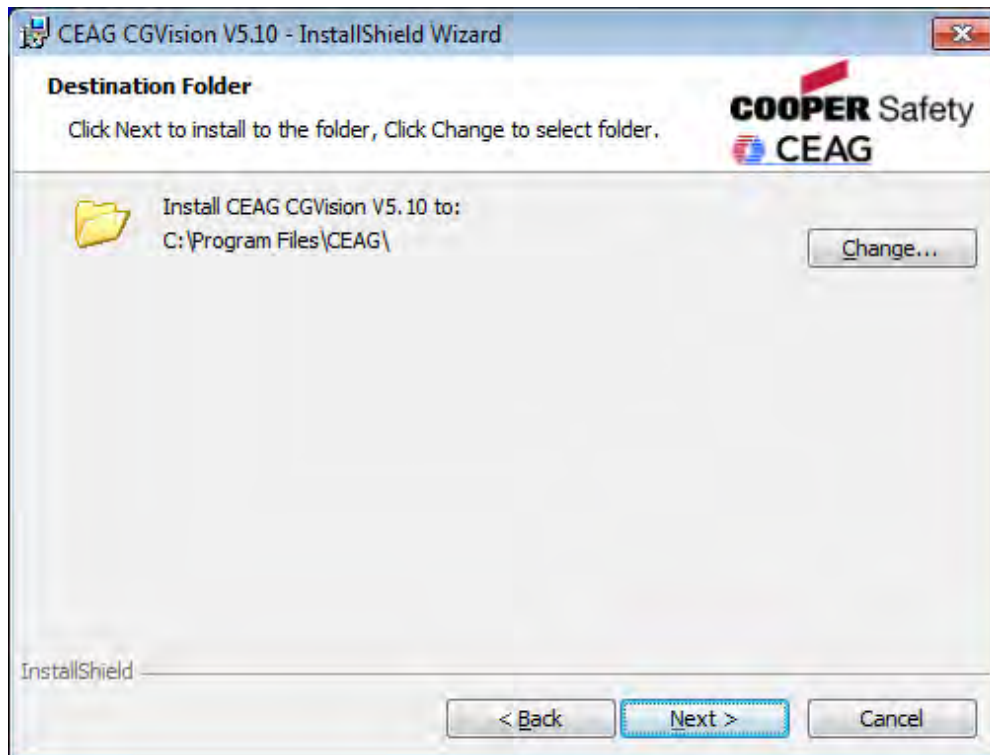
A licence agreement appears for use of the CGVision software in English and German. Please read the licence agreement carefully. If you accept the licence agreement, click on 'I accept the terms in the licence agreement' and then click on 'Next'.
Note: the 'Print' button enables the licence agreement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



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

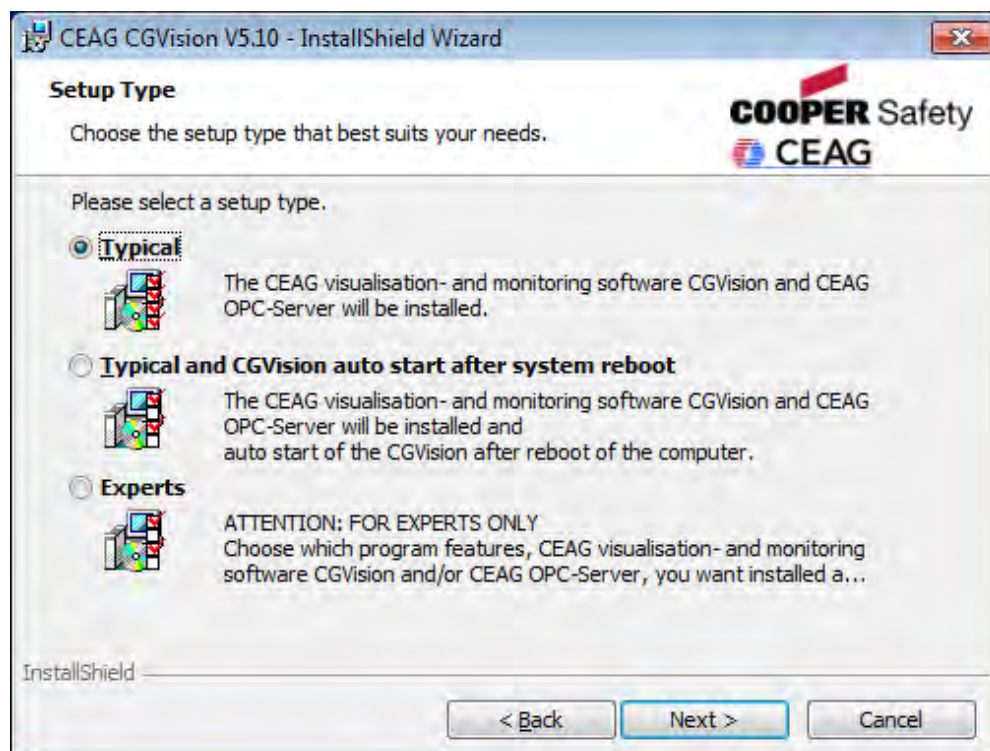


In the next screen the destination folder for installation can be specified. We recommend maintaining the default path. Continue with 'Next'.

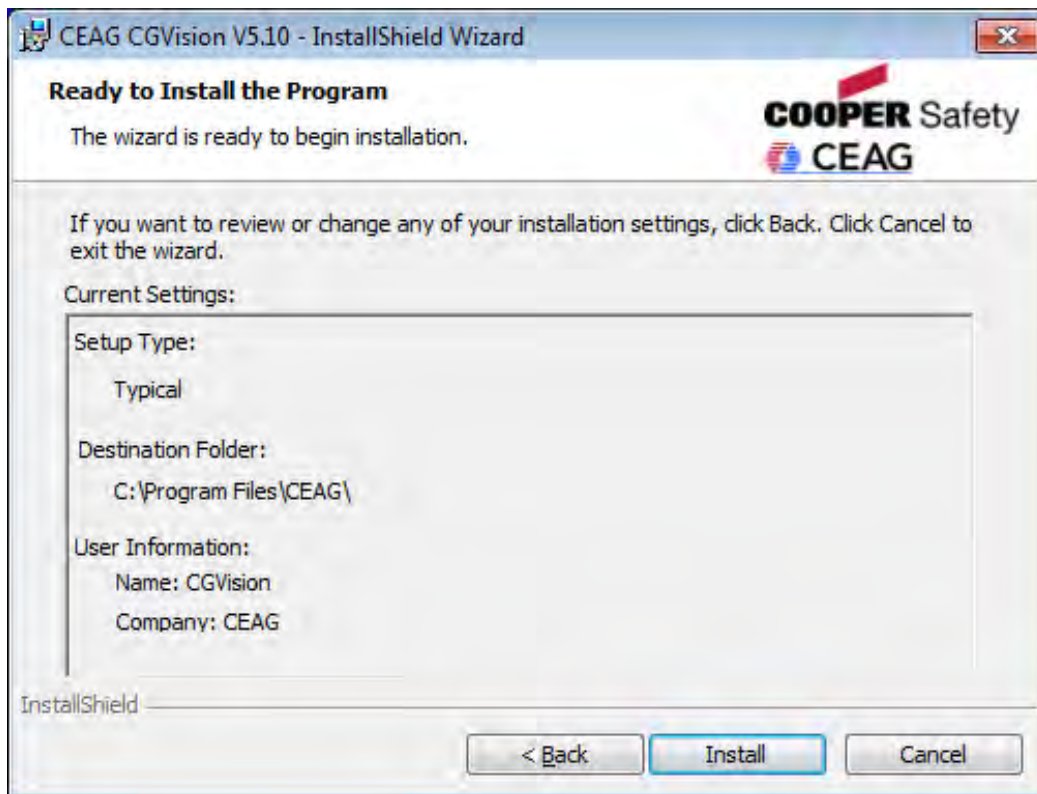


The next step is selection of the type of installation:

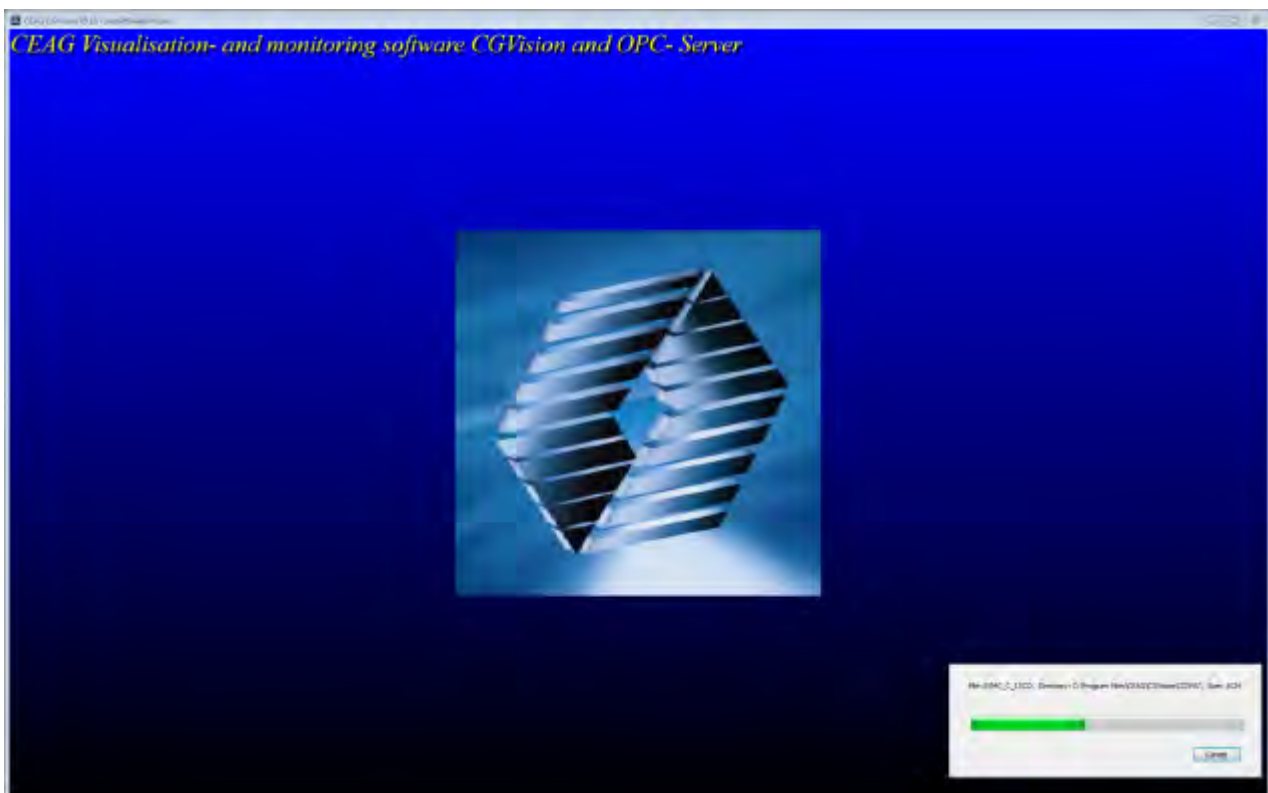
'Typical' means complete installation of CGVision and all OPC servers (recommended).
'Typical and...auto start...' is as with typical, but with an autostart function after every new start of the PC.
'Experts' enables individual installations of all programs, e.g. OPC servers, and installation of the 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:



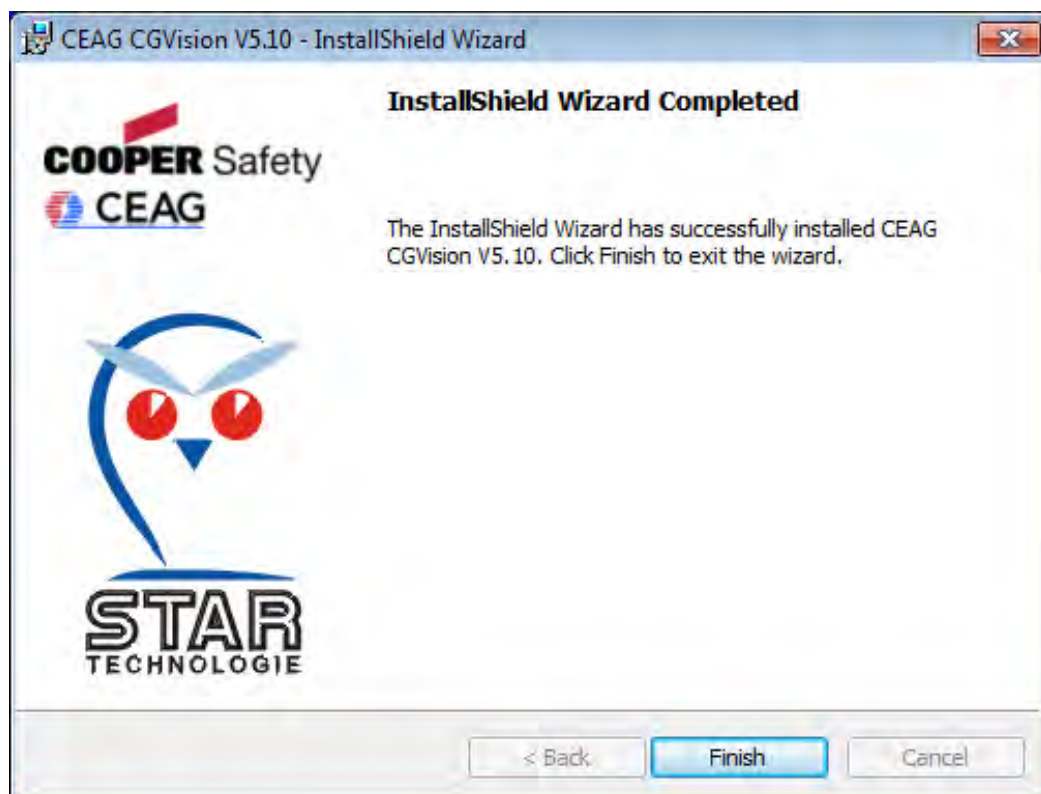
Start the installation process by clicking on 'Install'. A progress bar informs about the status of installation:



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.

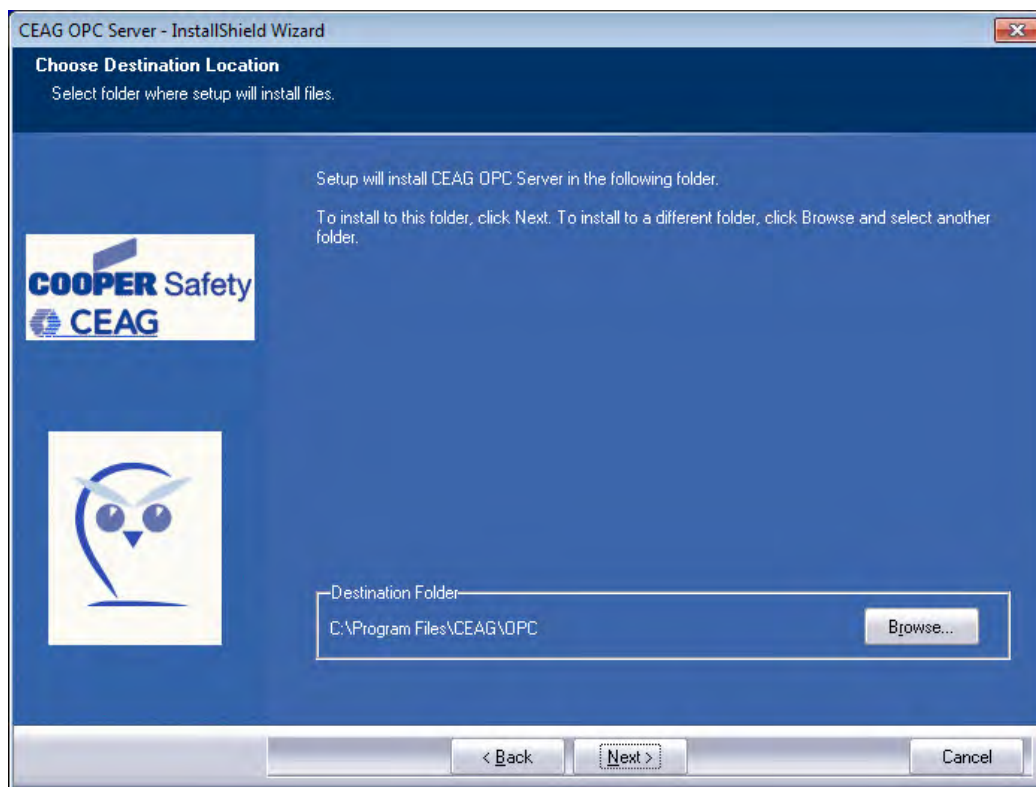


Installation of CGVision is then finished. Exit with 'Finish'.

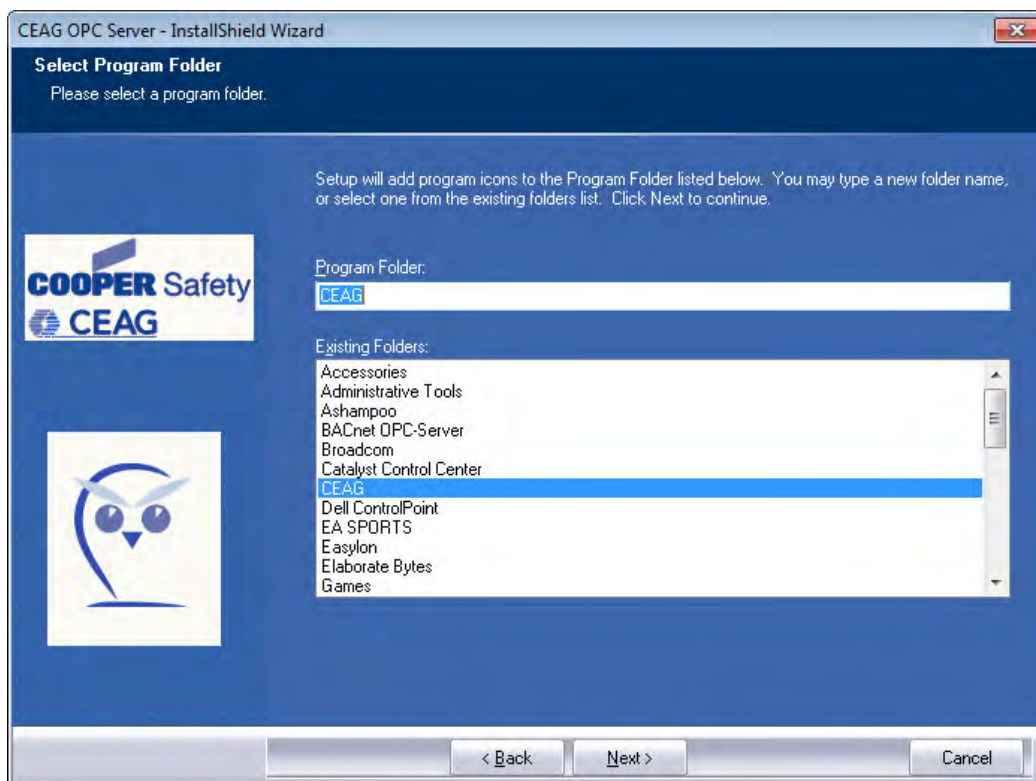
Installation of the CG-S OPC server then follows, starting automatically:

CG-S OPC server:

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

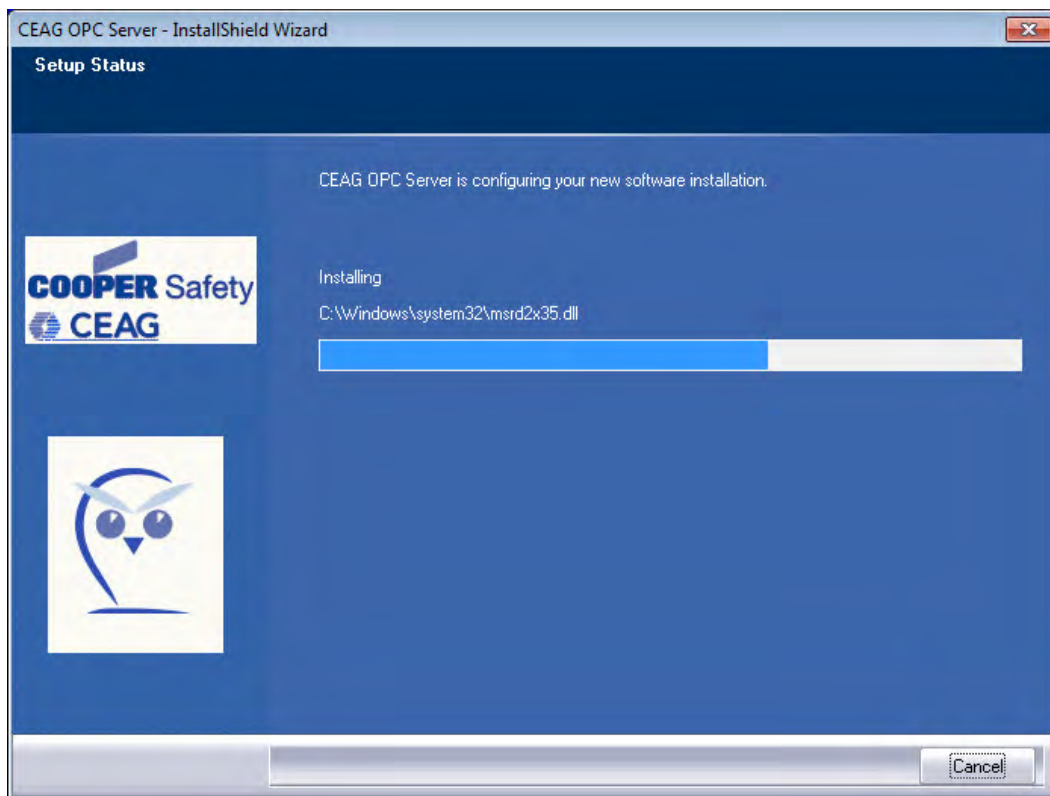


The installation program creates a program group that is shown on the start bar under programs. We recommend maintaining the specification.

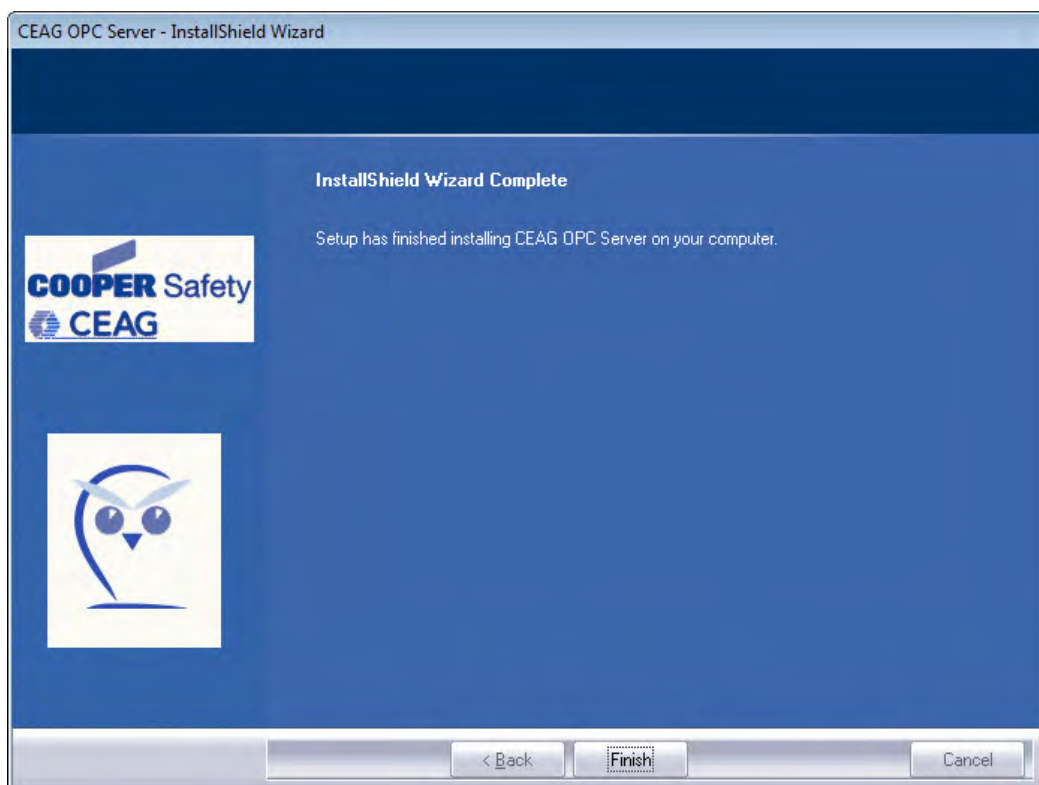


Continue with 'Next'.

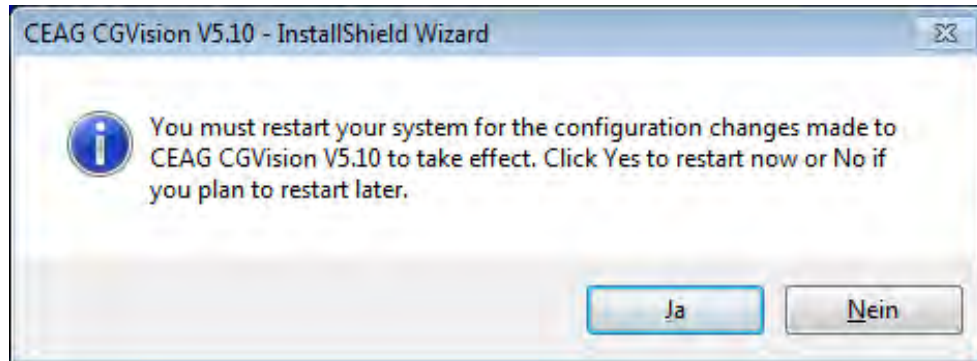
Installation of the OPC server now begins and a progress bar is displayed:



After completion, installation is terminated with 'Finish':



If this is the first installation of CGVision then the PC must be shut down and restarted.
In this case confirm with 'Yes'. The PC is restarted automatically.
Please observe that other programs may need to be closed first.

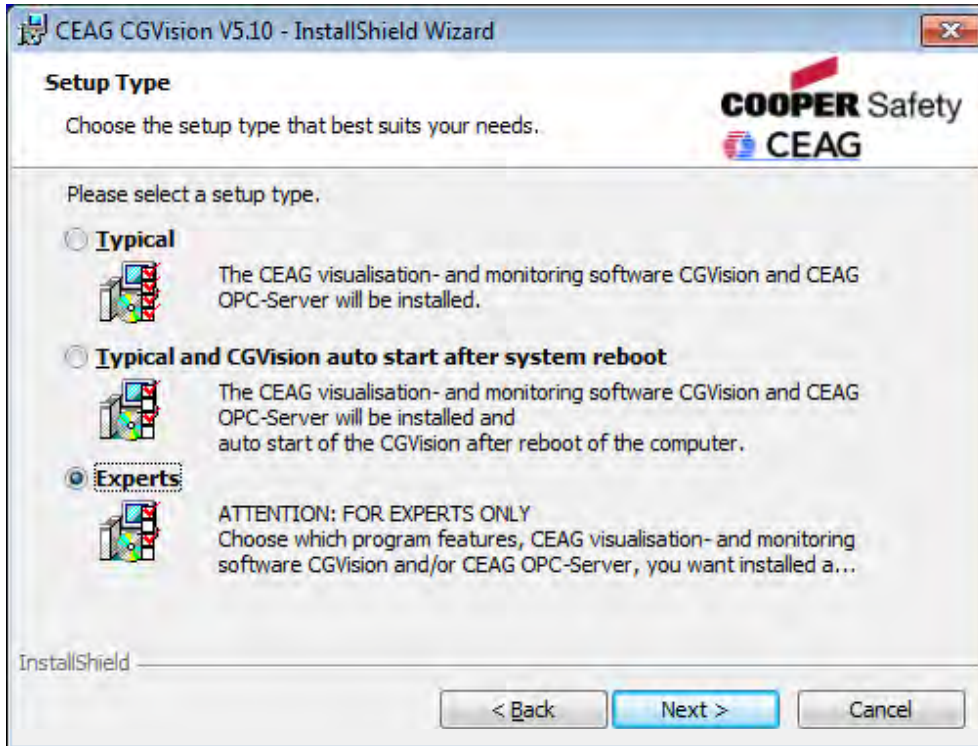


With a repeated installation, e.g. with updates, restarting is not required. Continue with 'No'.

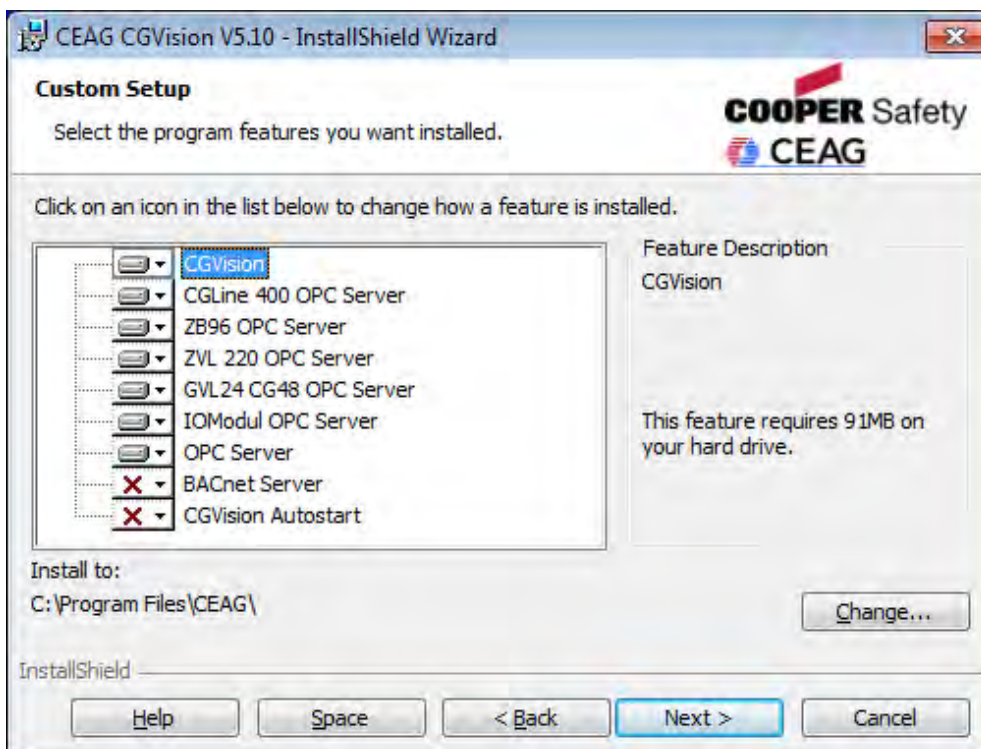
**CGVision can now be started via the CEAG symbol on the desktop, or via
Start → All programs → CEAG → CGVision → CGVision.**

2.2 individual installation – CGVision/OPC server

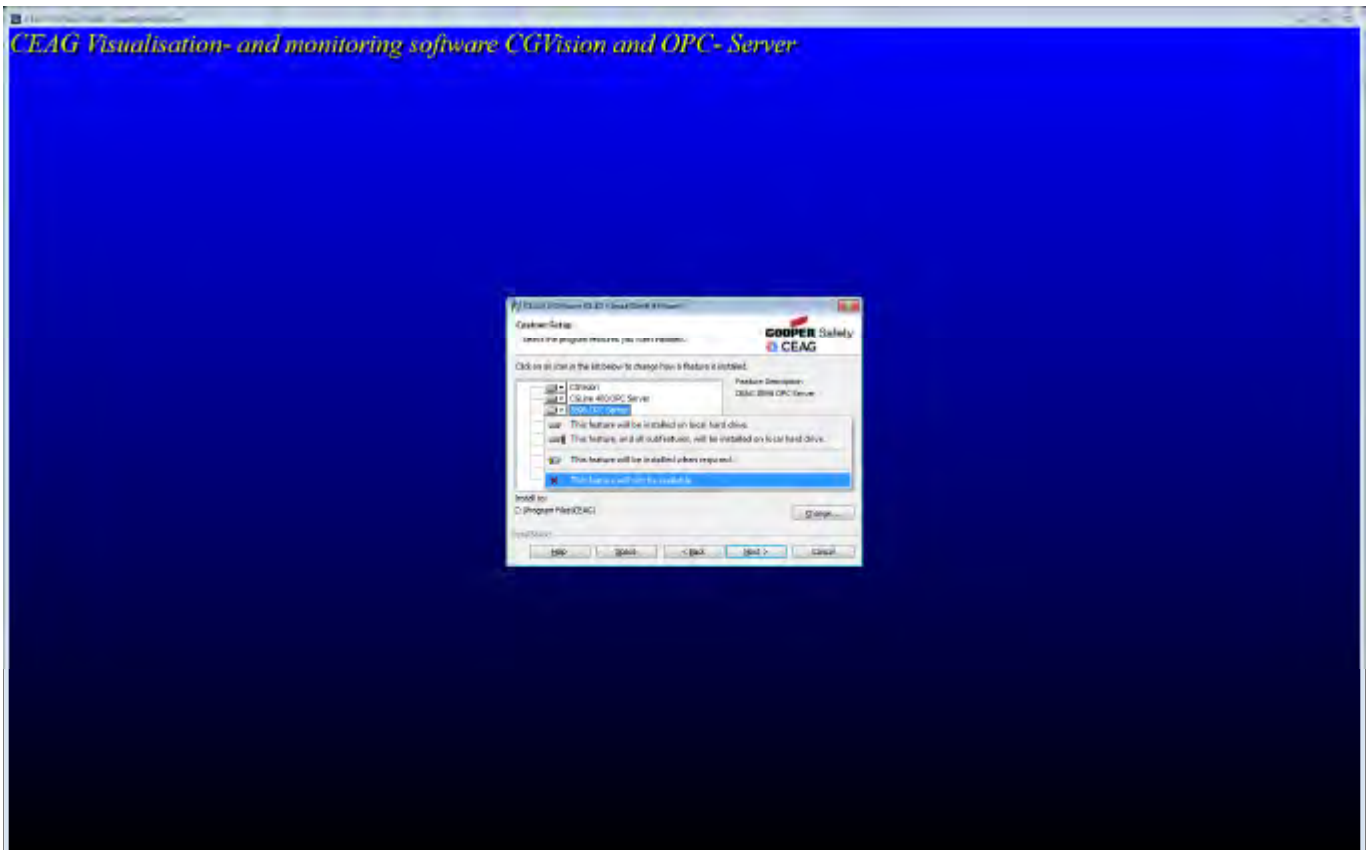
It is also possible to install CGVision or OPC servers individually, for example when an OPC server is desired for a building control technology connection without CGVision.
In this case install as described in Section 1.1. 'Complete installation' until the following screen appears:



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

2.4 CGVision UPDATE to a new version

To update a new CGVision including OPC servers to a new version, for example V2.00 to V5.10, 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 (from V5.10 → CGVision-BA Rev.H)
4. Reload the saved program configuration, group configuration and inspection records via the Services menu in CGVision.

Note: With UPDATE of a CGVision older than V2.00, the OPC key must be re-entered after installation !

Notices:

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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).

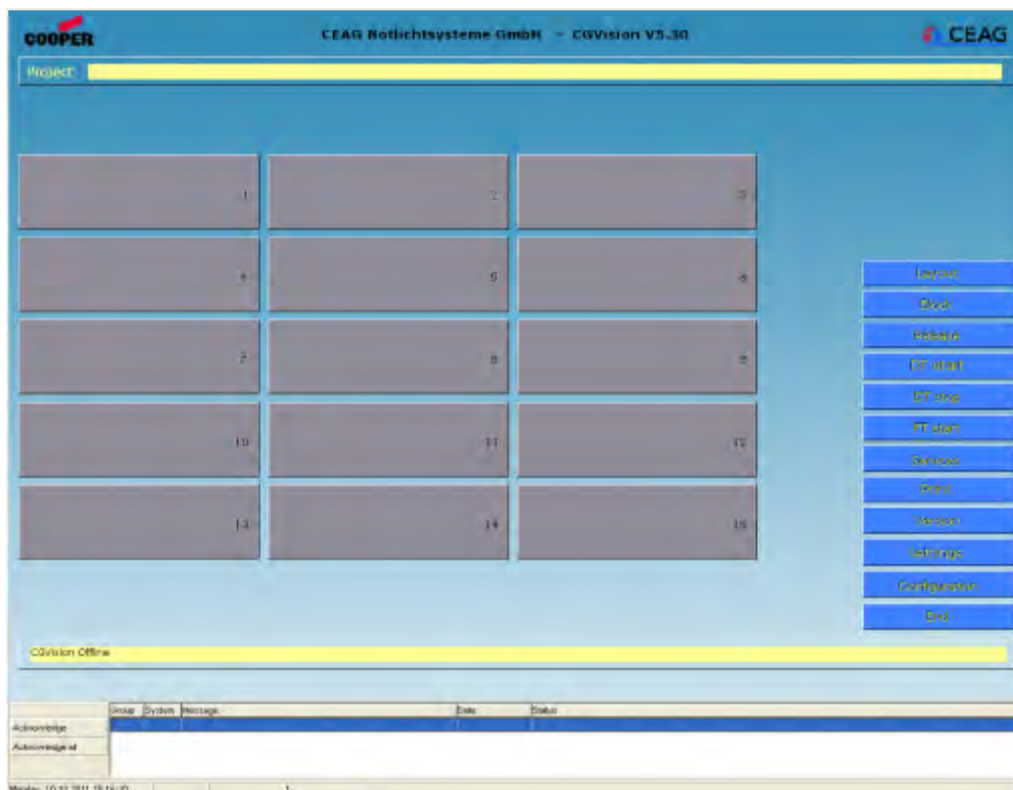
For EGA licence (dongle) on CGVision (part number: 40071347930), or in combination with CGLine or layout programming, a combi-licence (dongle) (part number: 40071347932) is required.

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:



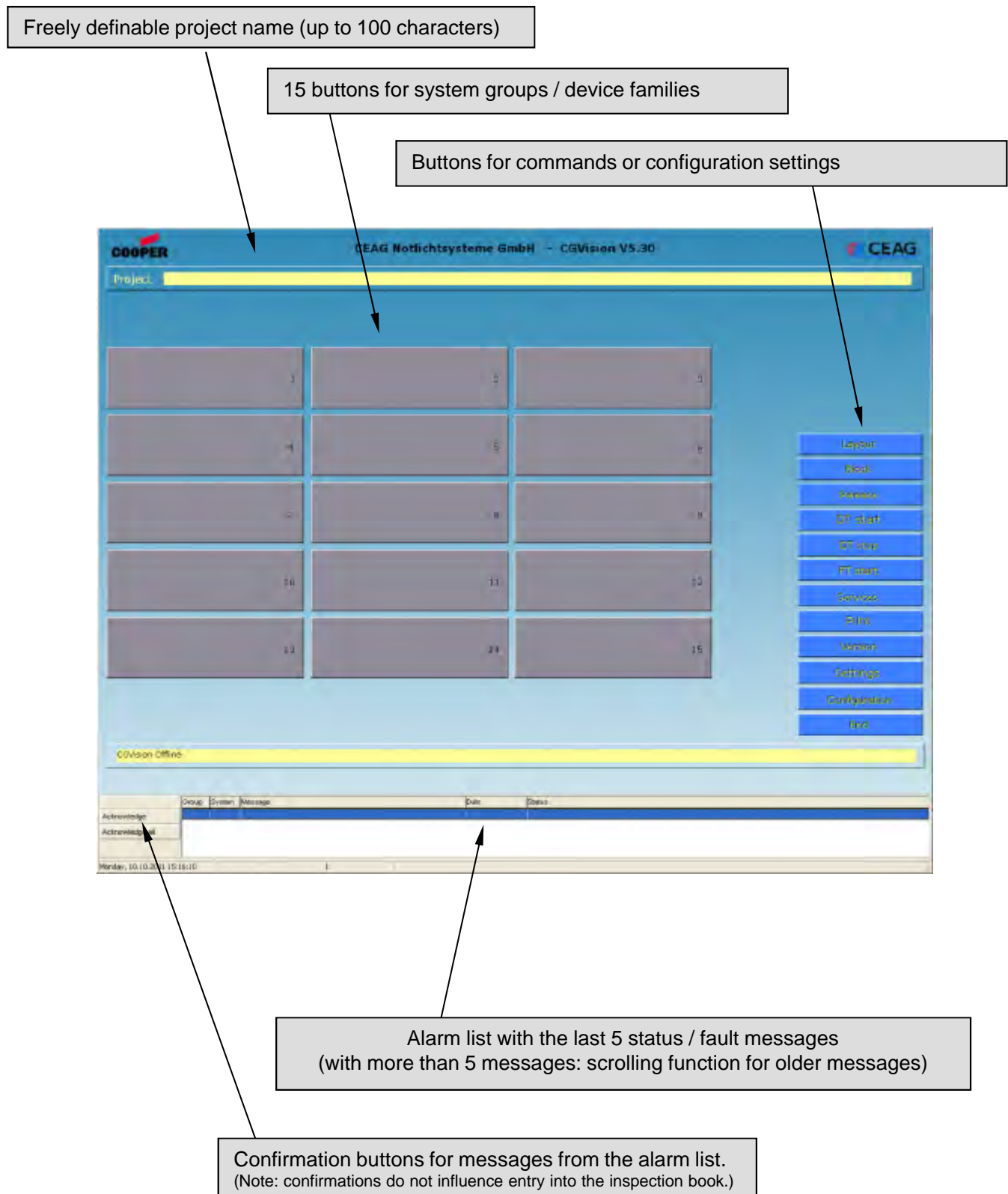
This shows 15 grey fields in which 'system groups / device families' can be assigned, and that are not yet configured in their basic state.

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)

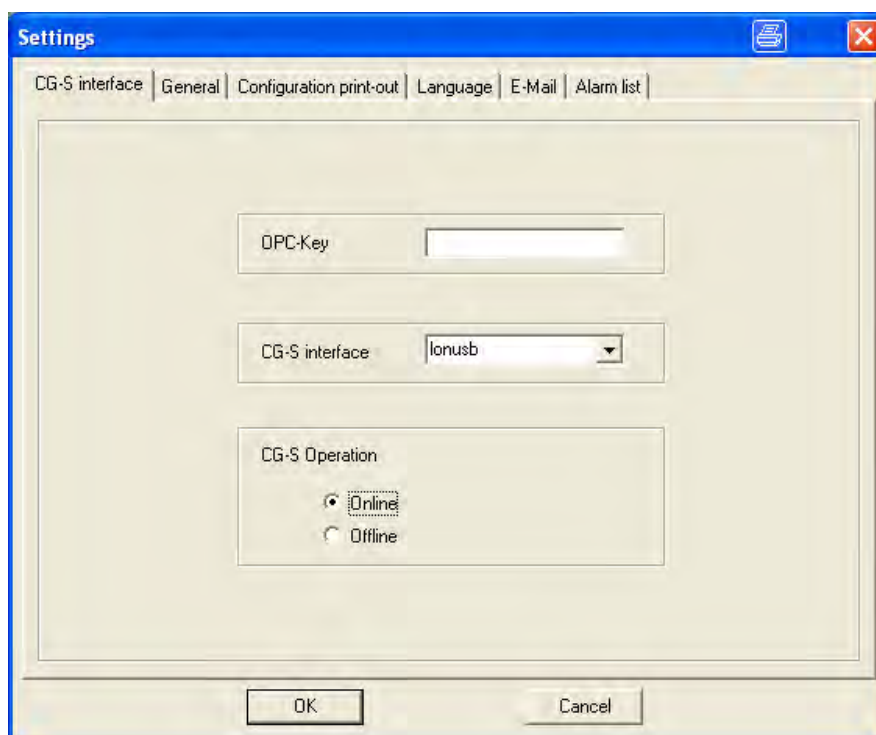


3.2.2 Basic pre-settings

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:

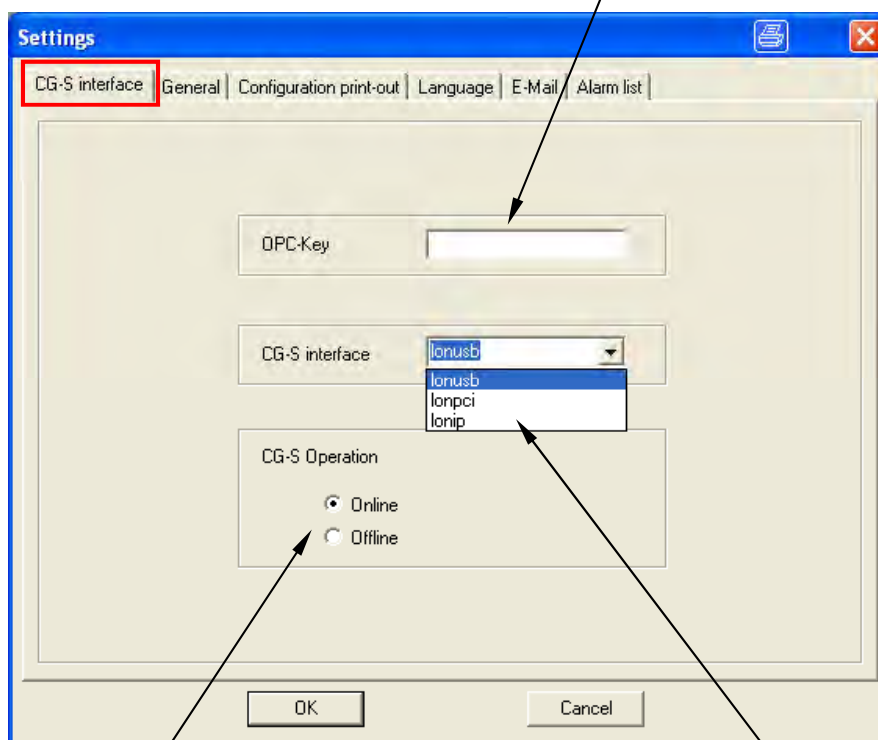


3.2.2 Basic pre-settings

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.



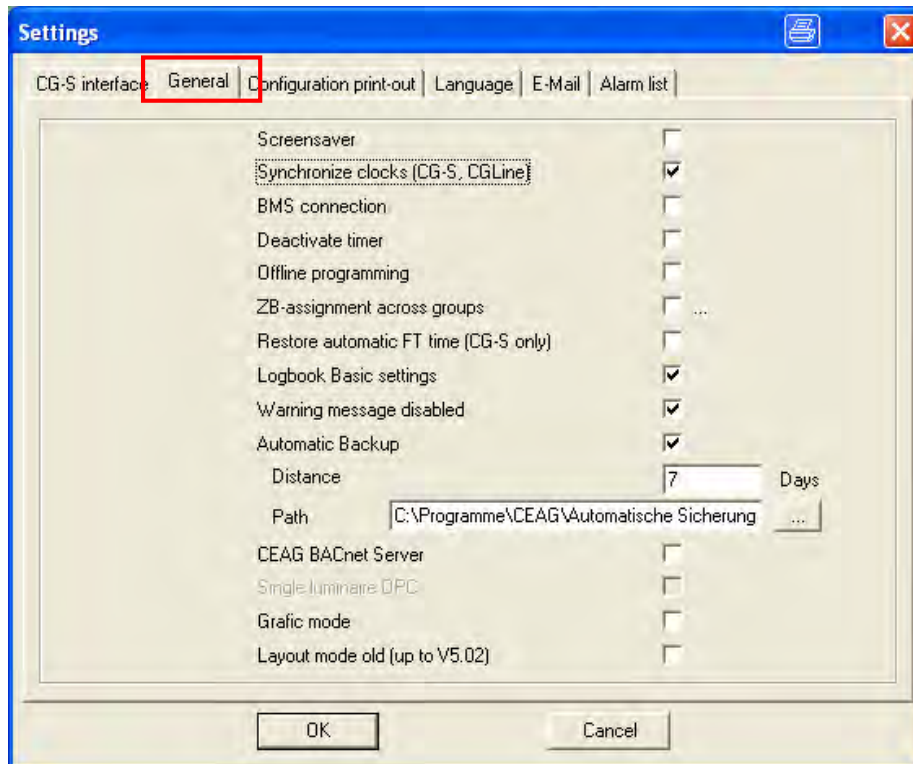
Selects whether CG-S operation is implemented online or offline. This deactivates the OPC server so that CGVision can be used for demonstration purposes without having CG-S systems connected.

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

3.2.2 Basic pre-settings

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

3.2.2 Basic pre-settings

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.

If the option is activated, all supplementary information (100 characters per luminaire/device...) is also printed.

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.

The 'Automatic printout' function activates the menu below this, 'Configuration of automatic printout'.

The screenshot shows the 'Settings' dialog box with the 'Configuration print-out' tab selected. The 'no new page at group print out' option is checked. The 'Automatic print-out' option is also checked, which activates the 'Configuration auto print' section. In this section, 'Print devices with error' is checked. The 'Set up time' is set to 07:00:00. The 'Time' section shows 'Mo' and 'Th' selected. The 'Group' section shows '01 -' and '02 -' selected. The 'CGLine: Print all luminaires' option is unchecked. The 'OK' and 'Cancel' buttons are at the bottom.

With CGLine, only the faulty luminaires are printed out as standard. If information for all single battery luminaires should be printed, activate this option.

This specifies that only information for faulty systems is automatically printed out. The status for systems without errors is not printed.

Specification of time, weekdays and device groups that are to be automatically printed.

3.2.2 Basic pre-settings

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.



3.2.2 Basic pre-settings

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.

Settings

CG-S interface | General | Configuration print-out | Language | **E-Mail** | Alarm list

Settings ☒

SMTP Server

Sender

Authentication ☐

User

Password

Status mail attachment ...

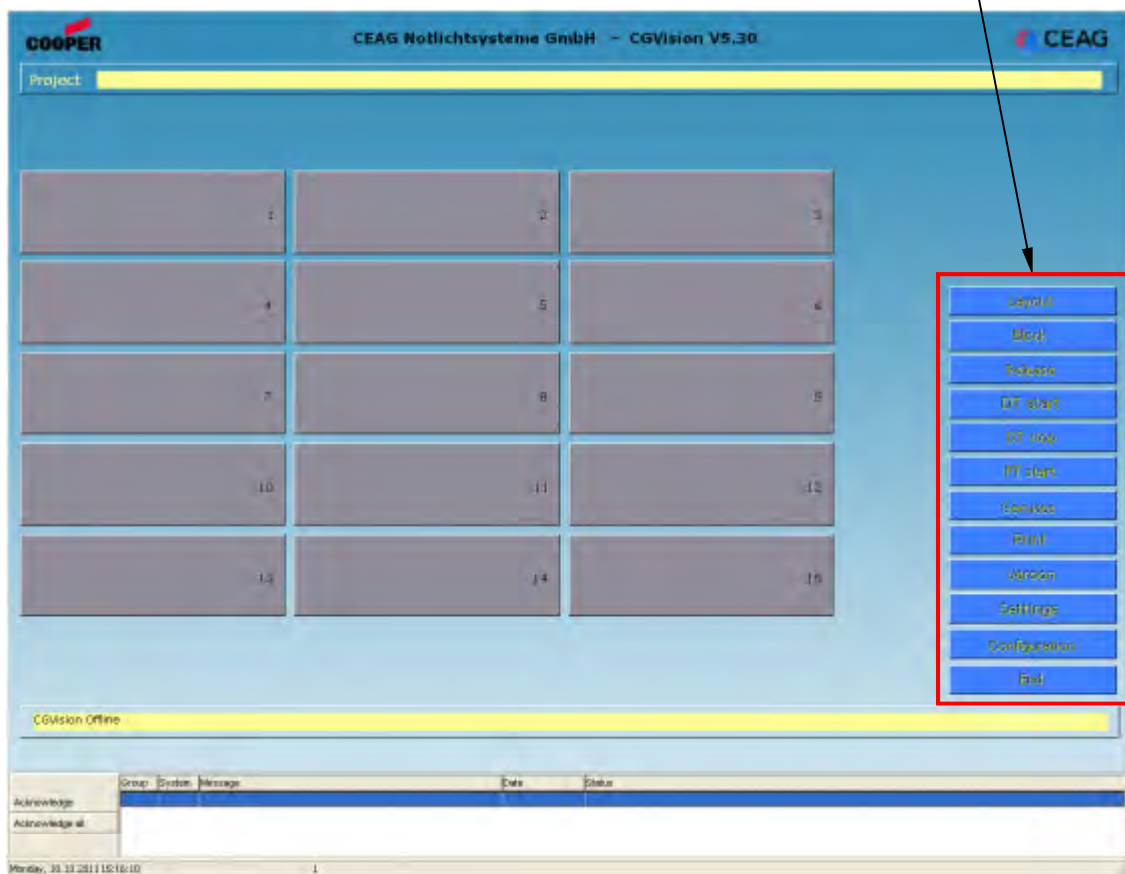
OK Cancel

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.

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'

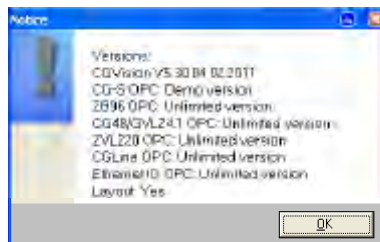
Screen 1) Display of existing licences

- 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.

Screen 2) Specification of current software versions



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 2.2.2: '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.

Group configuration

Project name: projectname with max. 100 letters

Password: ☐ Use password for all groups

No.	Type	Name
01		
02		
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		
13		
14		
15		

No. Type Name

No. Type Name

F3-Module

NeuronID

TCP/IP address

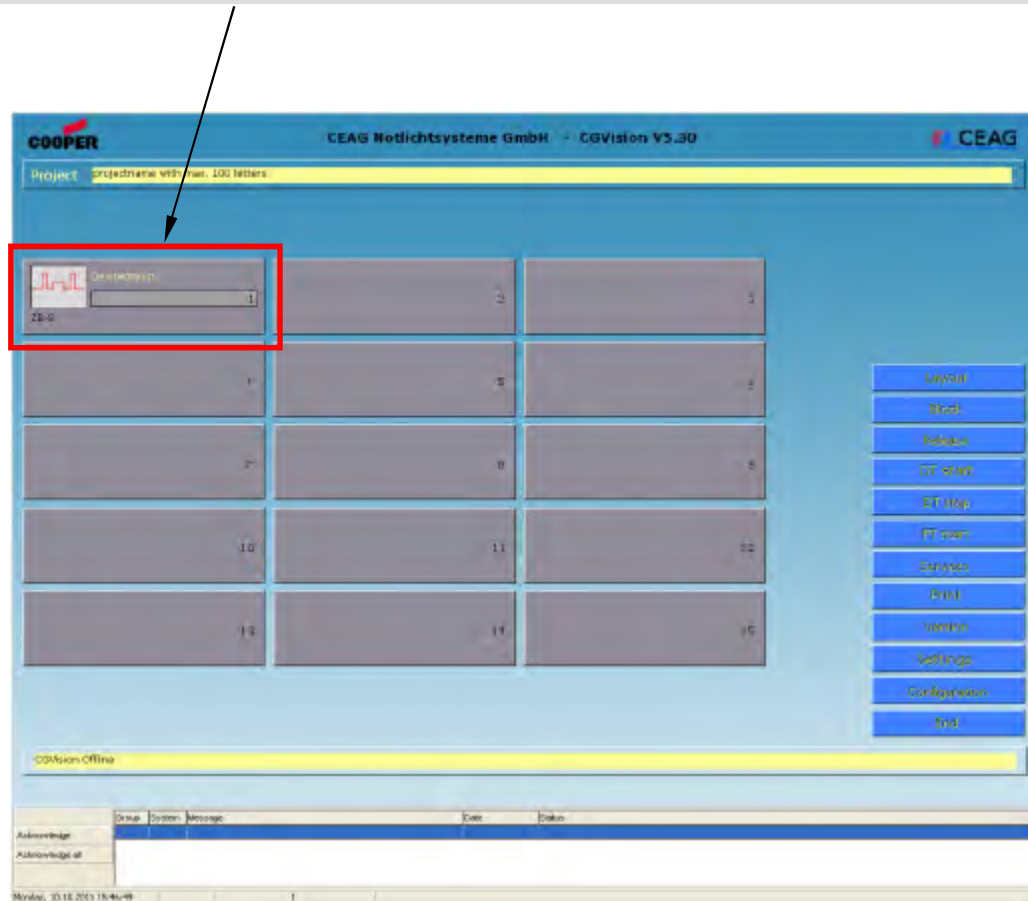
Port

DLL-Version:

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'.

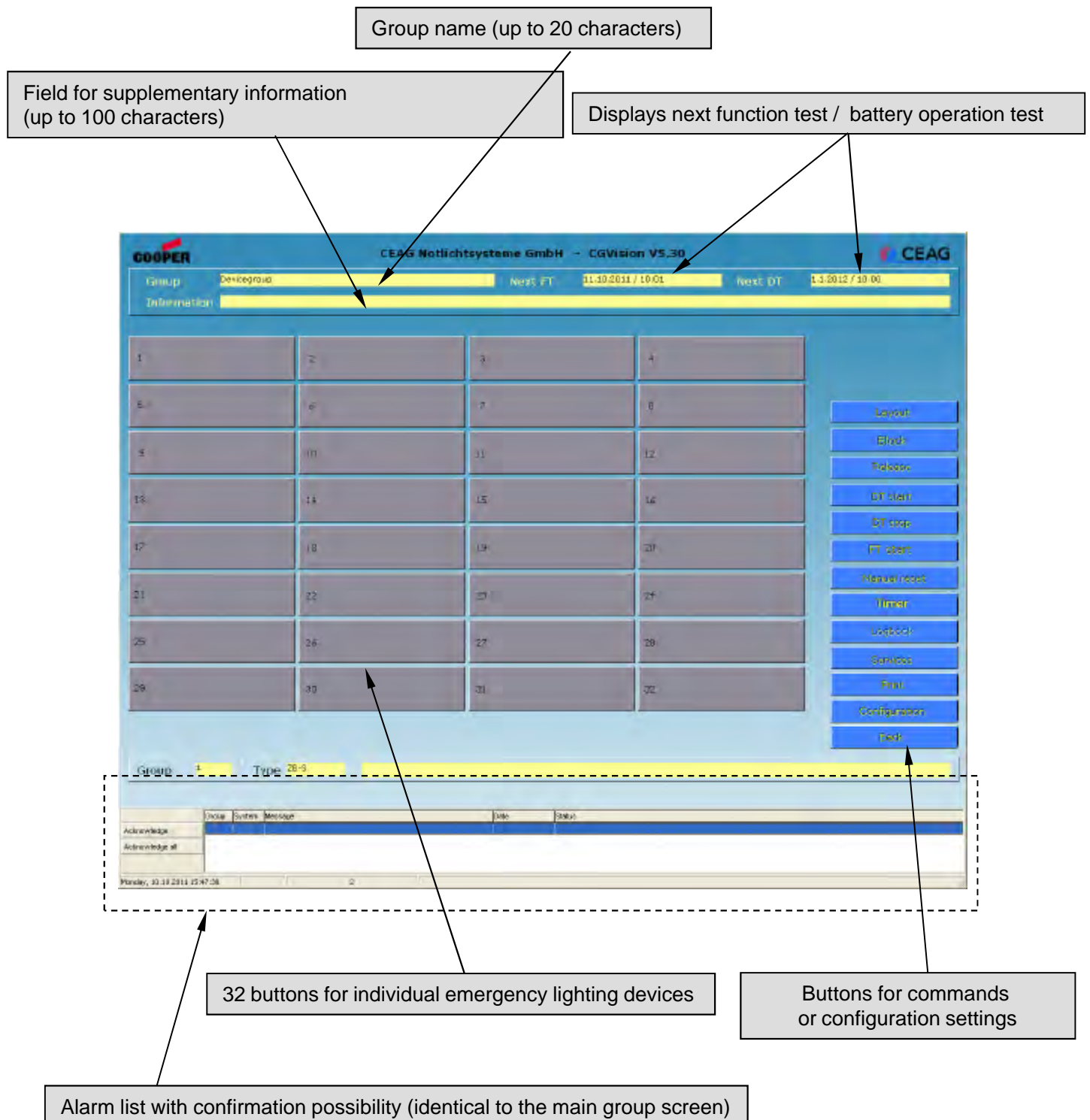


l). 'Exit'

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)

Timer 1 (week timer: yellow=on)

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
0:00							
2:00							
4:00							
6:00							
8:00							
10:00							
12:00							
14:00							
16:00							
18:00							
20:00							
22:00							
24:00							

Timer 2 (blocked days: grey=blocked day)

	1	5	10	15	20	25	31
January							
February							
March							
April							
May							
June							
July							
August							
September							
Oktober							
November							
December							

Buttons: Print, Configuration Timer 1, Configuration Timer 2, Back

Status bar: Monday, 10.10.2011 15:49:27 7

TIMER 1:

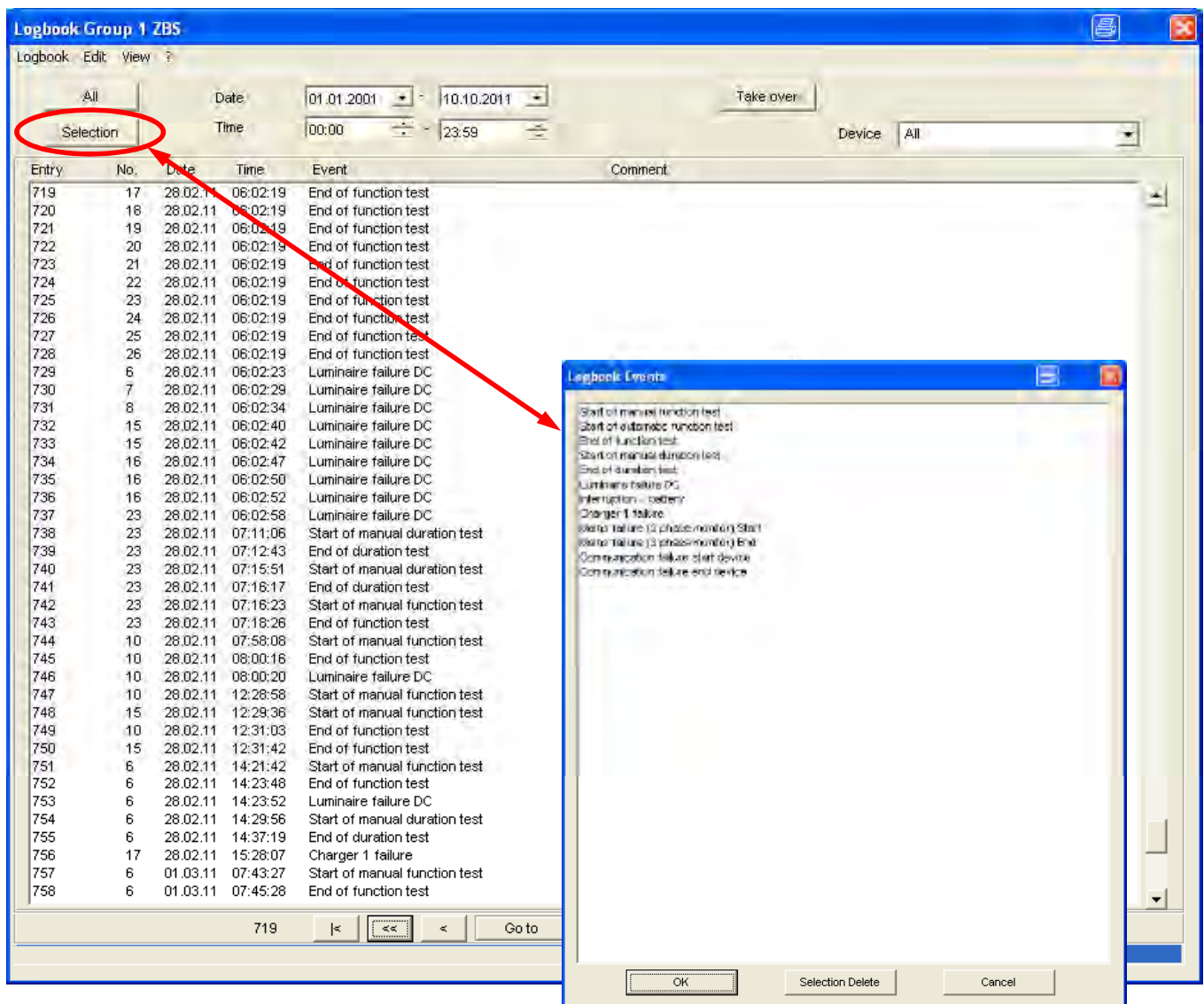
Timer 1 enables circuits or luminaires programmed for this to be switched on (ON = yellow button) or switched off (OFF = grey button) for the required times. The configuration is carried out via the 'Configuration Timer 1' button.

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'

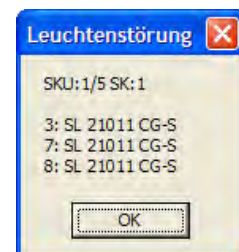
Comprehensive inspection book management for each system group



The 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:

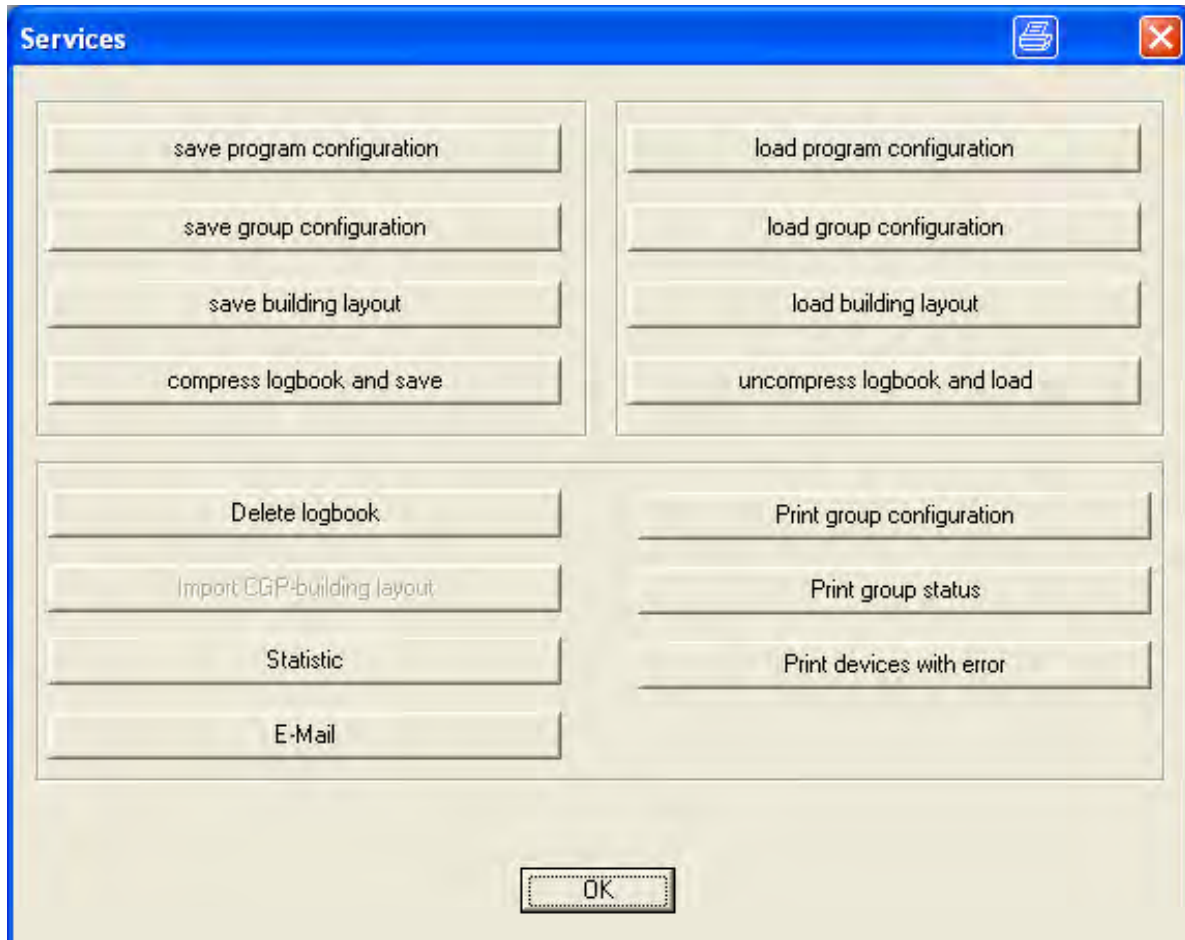


Furthermore, inspection book entries can also be selected according to date and time, for example to check what has occurred on a particular day.

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

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

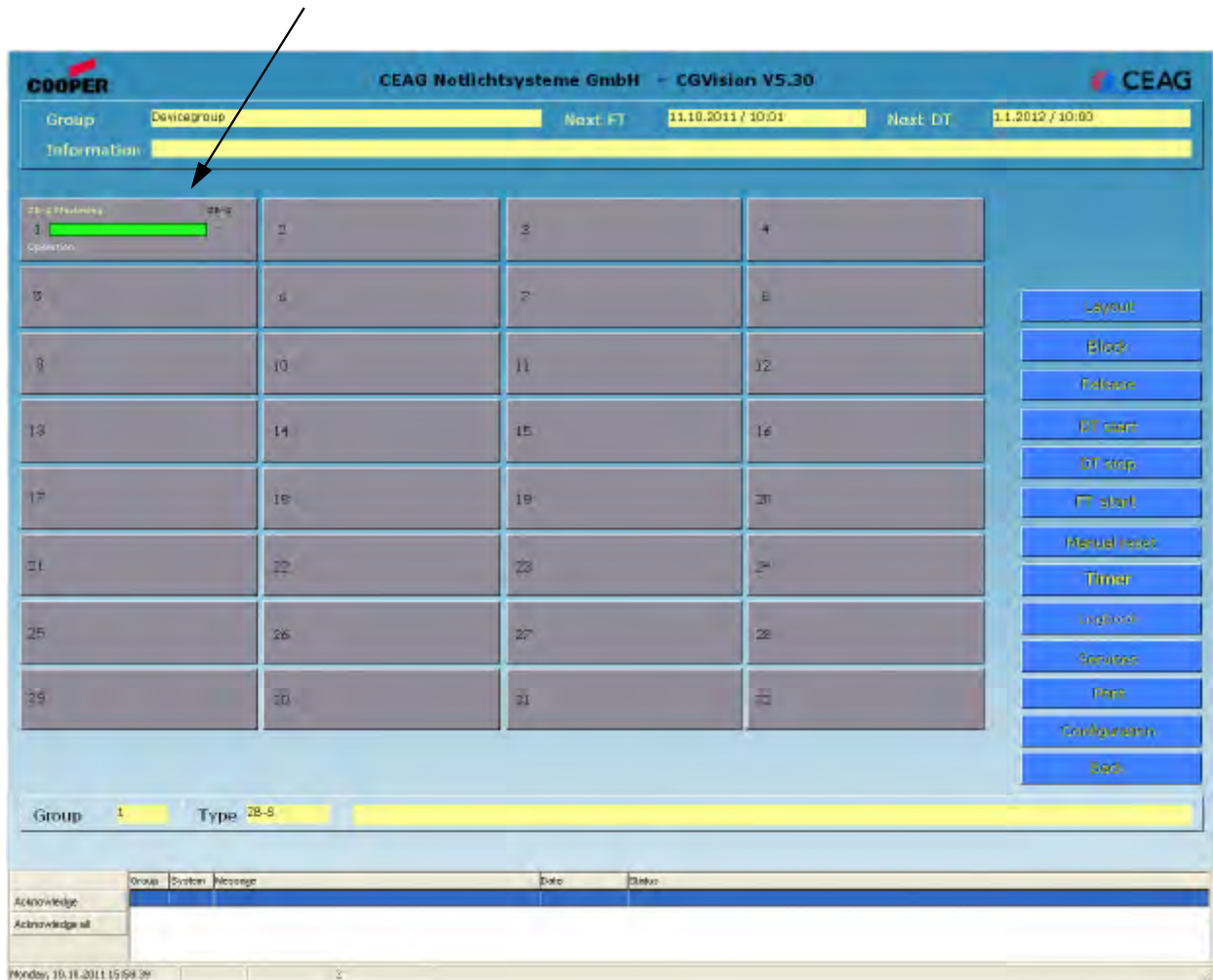
After one or several systems have been added it must be considered that current configurations of the systems (e.g. installed circuit change-over modules / luminaires etc.) must still be opened (PC ← system, e.g. ZB-S) !

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:

- Table:** A table with columns 'No.', 'Type', and 'Name'. Row 01 is selected and contains 'ZB-S'. Rows 02 through 26 are empty.
- Group name:** A text field containing 'Devicegroup'.
- Group information:** A large empty text area.
- Next battery duration test:** Date '01.01.2012' and time '10:00'.
- Distance:** '12' and 'Month'.
- Next function test:** Date '11.10.2011' and time '10:01'.
- Distance:** '1' and 'Days'.
- Password:** An empty text field.
- E-Mail Configuration:** A button.
- System address:** A text field containing '1'.
- System type:** A dropdown menu showing 'ZB-S'.
- System name:** An empty text field.
- NeuronID:** A text field containing '001419329900'.
- NeuronID Address:** A text field containing '1'.
- Buttons:** 'Take over', 'Delete', 'Remove all', 'PC <- ZB-S' (highlighted with a red box and a red arrow), 'PC -> ZB-S', 'Open file', 'Load from SD/SMC', 'Save file', 'Save on SD/SMC', and 'Start learn cur. value'.
- Bottom buttons:** 'OK' and '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' .



Notices:

Notices:



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-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 V5.10

400 71 347 387 (E)



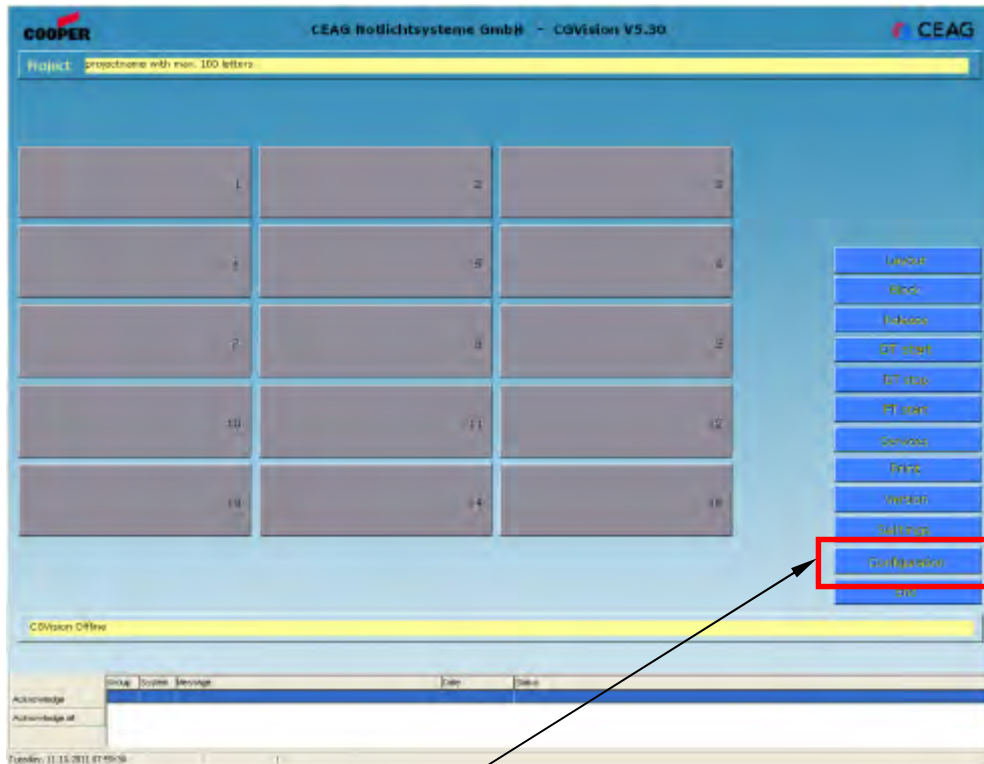
Section 4

Device family CG2000

4 Device family CG2000

4.1 Configuring a CG2000 system group

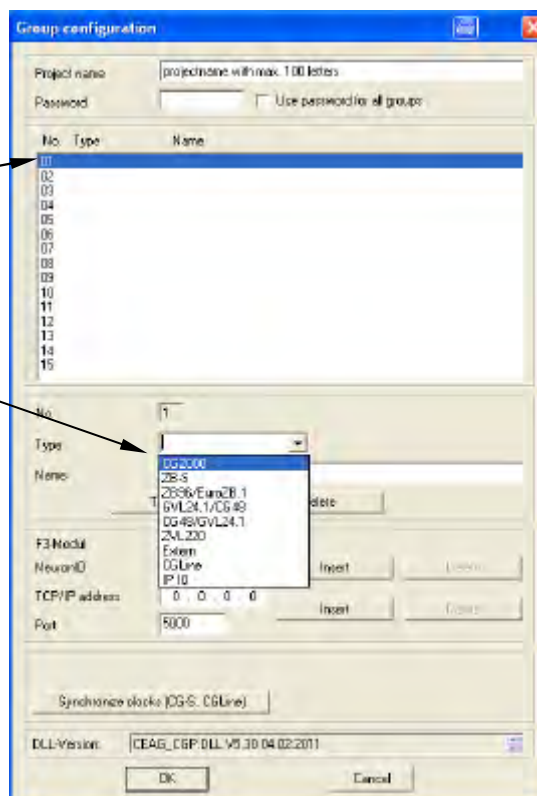
4.1.1 Creating a CG2000 system group:

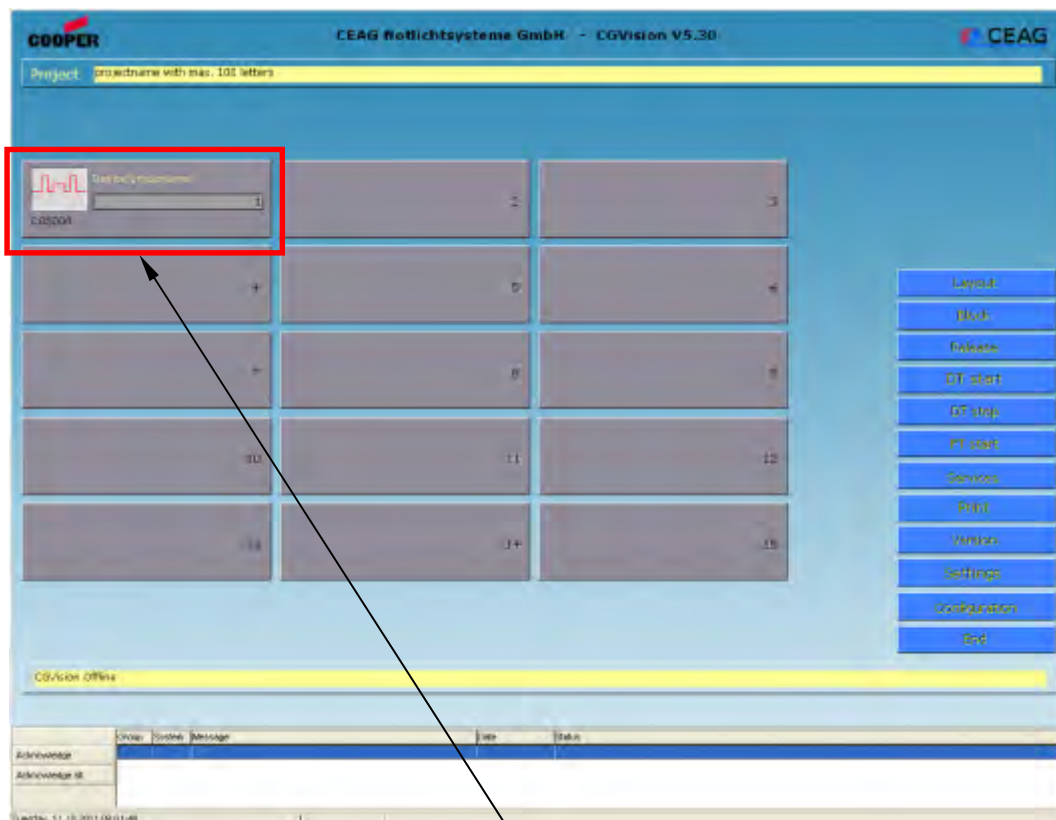


A new device family, e.g. CG2000, can be created via the 'Configuration' menu.

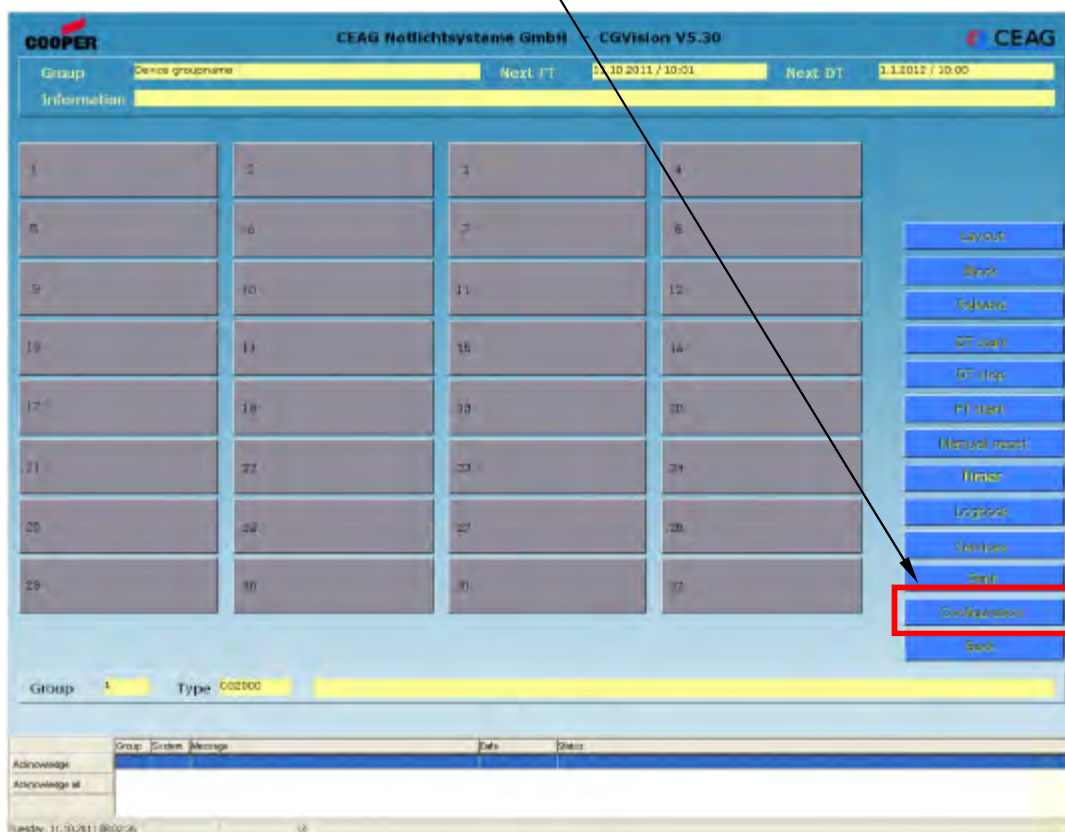
The group configuration menu is then displayed:

- 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.

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

COOPER

Scan

Wait for service PIN

Store result

Load file

End Wait for service PIN

Send Wink to selected node

Delete result

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

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

System number: 0

CG2000: 0

Other: 0

ZB-S: 0

REL: 0

System founded: 0

Apply

Cancel

CEAG

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.

4.2 'Device screen – CG2000'

4.2.1 Structure of the device screen:

The screenshot shows the CEAG CG2000 device screen interface. The top header displays 'COOPER', 'CEAG Notlichtsysteme GmbH - CGVision V5.30', and the CEAG logo. Below the header, there are input fields for 'Group', 'System', and 'Information'. To the right of these fields are status indicators for 'Next FT', 'Next DT', 'Manual reset', and 'Delay on mains return'. The main area of the screen is divided into several sections: a left sidebar with 'Operation' status (FT, DT, Blocked, Failure) and a 'Save on ED/STAC' button; a central area with a schematic diagram showing 'Charger', 'Battery' (with voltage, current, and temperature readings), 'ISD', 'DC/DC', '3 phase monitor', 'Delay on mains ret.', and 'Mains'; a right sidebar with a 'Circuits' list (1-10) and a vertical menu of buttons including 'Layout', 'Block', 'Release', 'DT over', 'DT stop', 'FT start', 'Reset deep discharge', 'Manual reset', 'GLS/TLS/CRW', 'LOH switch', 'Services', 'Print', 'Configuration', and 'Back'; and a bottom section with a table for 'Group', 'System', 'Message', 'Date', and 'Status'. Annotations with arrows point to various elements: 'Group name and system name (up to 20 characters each)' points to the 'Group' and 'System' fields; 'Field for supplementary information (up to 100 characters)' points to the 'Information' field; 'Display of next automatic FT / BT. FT = function test BT = continuous battery operation test' points to the 'Next FT' and 'Next DT' fields; 'Direct status messages of device with coloured status display Green= OK , Red = fault' points to the 'Operation' status indicators; 'Buttons for commands or configuration settings' points to the vertical menu of buttons on the right; '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.' points to the 'Circuits' list; and 'Alarm list with confirmation option, identical to the main group screen.' points to the bottom table.

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

Operation ☒ FT ☐ DT ☐ Blocked ☐ Failure ☐

Charger

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

ISD

DC/DC

3 phase monitor

Delay on mains ret.

Mains

Battery capacity

Deep discharge prot.

Manual reset

LON RS485

CG-S Bus

Circuits

1

2

3

4

5

6

7

8

9

10

Layout

Block

Release

DT over

DT stop

FT start

Reset deep discharge

Manual reset

GLS/TLS/CRW

LOH switch

Services

Print

Configuration

Back

Save on ED/STAC

Group 1 Type CG2000 System 1

Group	System	Message	Date	Status

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

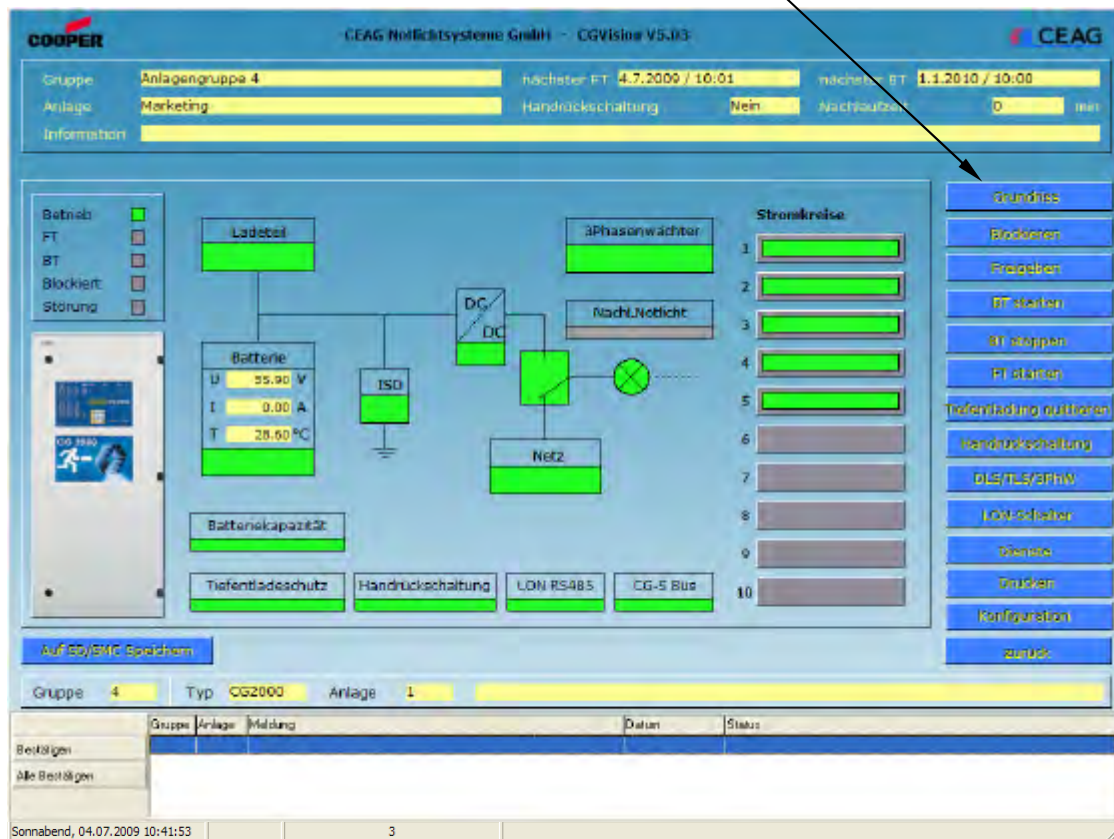
Installed circuits, max. 5 (CG100) or 10 (CG200). A grey field signifies 'not installed'. To display installed circuits, these must first be loaded with the 'Configuration' menu via the 'PC ← CG2000' button.

Buttons for commands or configuration settings

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

4.2.2 Function buttons:

Button functions for command or configuration settings



- 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

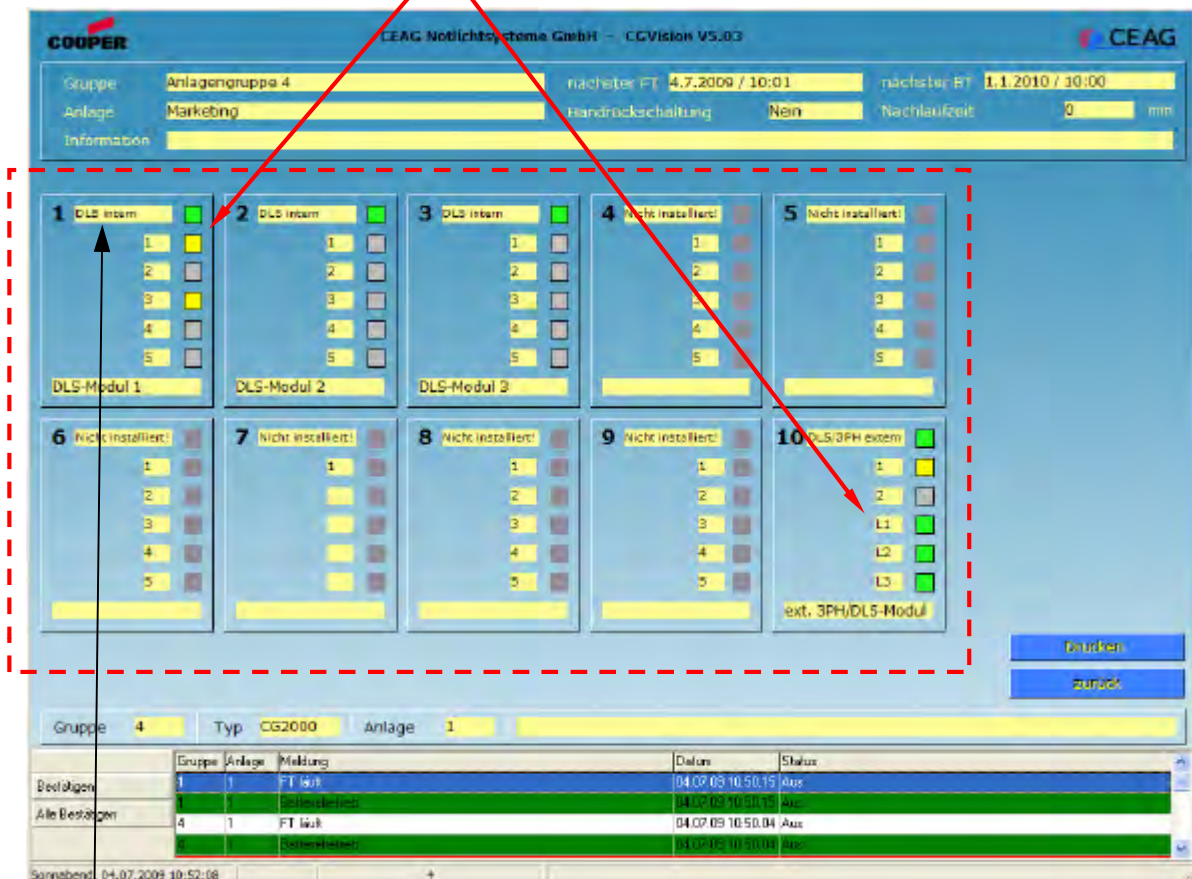
a). Calling up of the available layouts in this system group
(option must be released, see the 'layout programming' section)

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

i). 'DLS/TLS/3PhW'

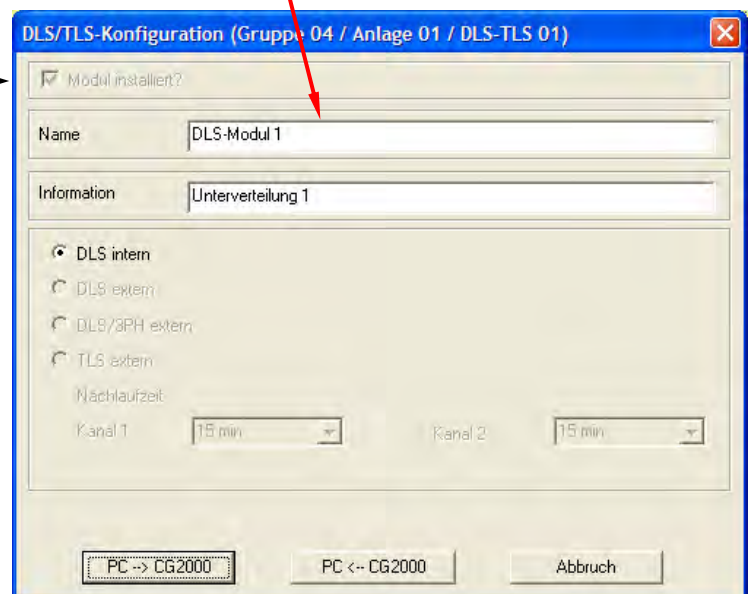
Menu for configuration of DLS / TLS / and 3-phase monitor functions

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

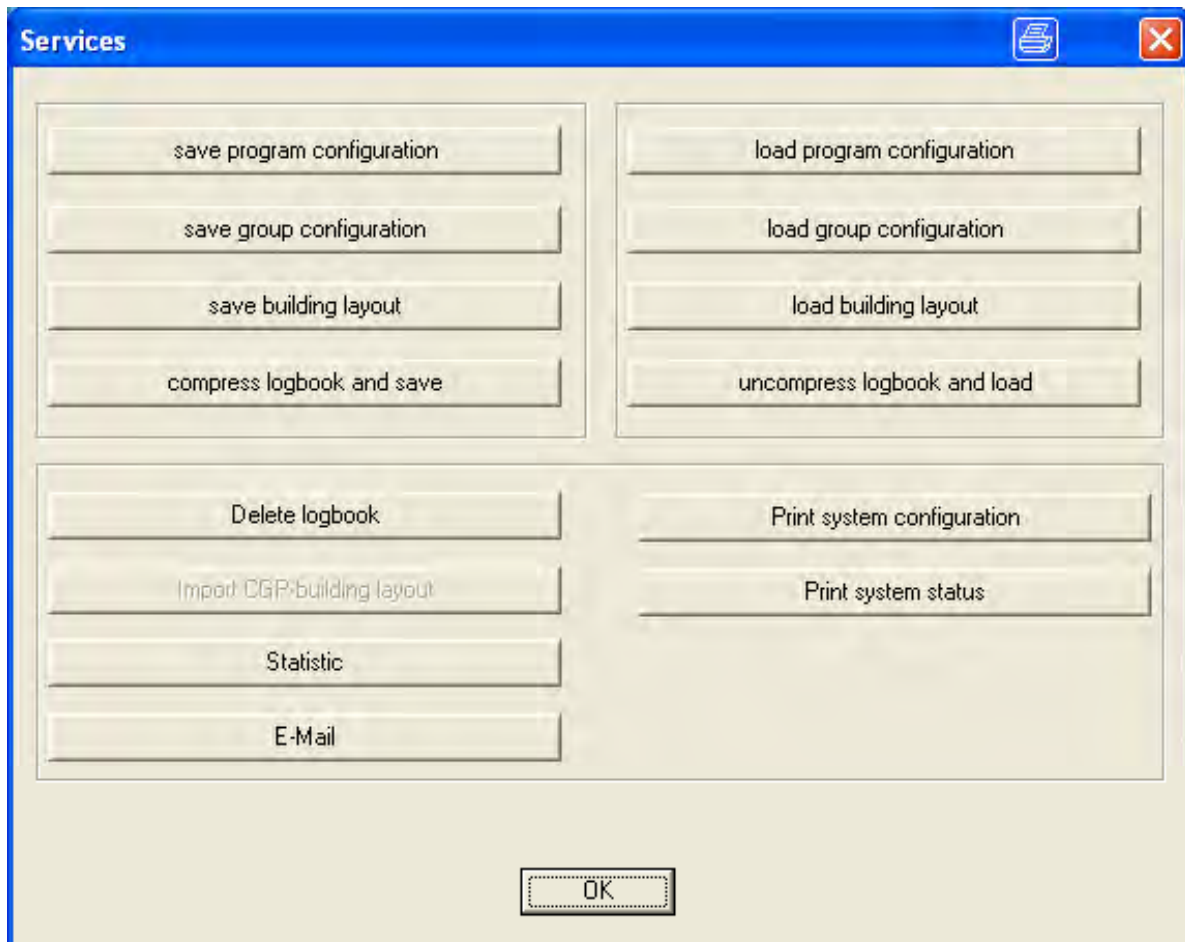
To use the 'LON switch' function, in the CG2000 device menu *Basic settings // Connection to GLT* --> **LON switch: YES** must be activated.

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

Relay	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"/>

Load default value

Circuits

1	2	3	4	5
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	7	8	9	10
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Type: CG100

Software version:

Serial number:

Start inverter searching

Start DLS/TLS searching

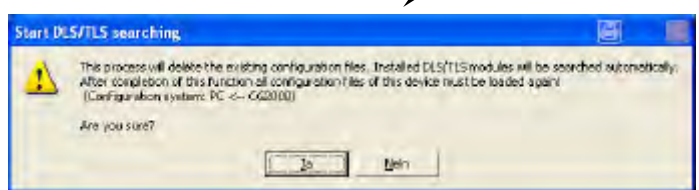
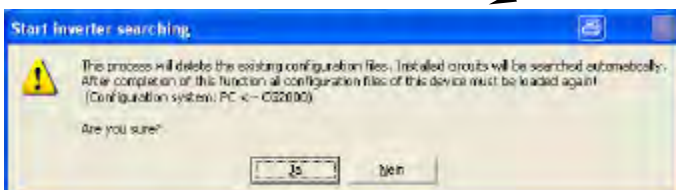
PC → CG2000

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.

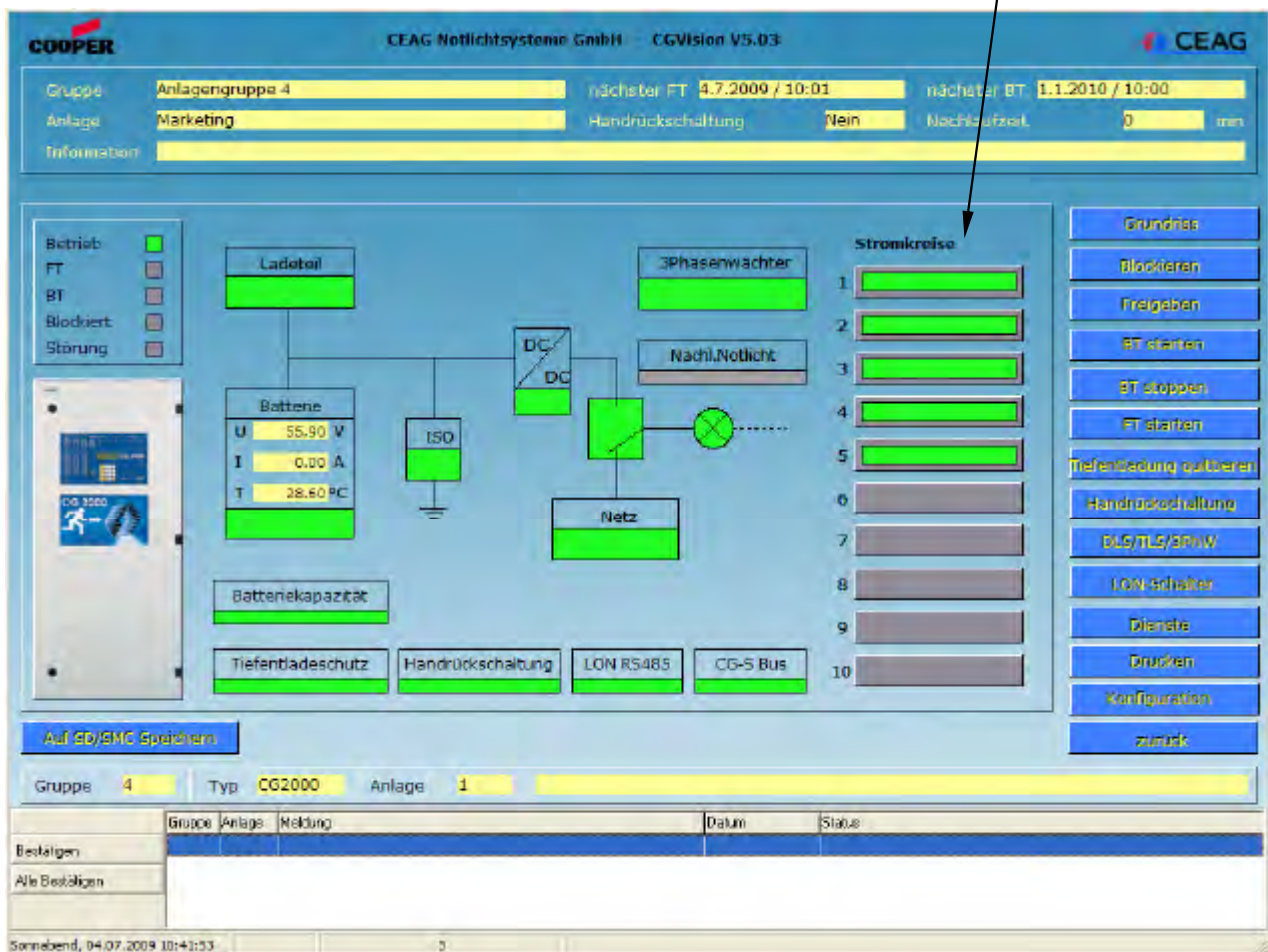
Option: converter search and DLS/TLS search
Buttons for starting 'Converter search' and 'DLS/TLS search' as possible on the device. It must be considered that after implementing these functions the configuration data of the device must be reopened. The following windows appear: With Converter search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



4.3 'Circuit screen'

4.3.1 Structure of the circuit screen:

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



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

Displays next FT/BT and further circuit configurations

Buttons for luminaire configuration (per luminaire)

COOPER CEAG Notlichtsysteme GmbH - CGVision V5.03 **CEAG**

Gruppe: **Anlagengruppe 4** nächster FT: **5.7.2009 / 10:01** nächster BT: **1.1.2010 / 10:00**
 Anlage: **Marketing** Handrückschaltung: **Nein** Nachlaufzeit: **0** min
 Stromkreis: **CIR01** Schalter 1: **Per Leuchtensetup** Schalter 2: **Dauerlicht(Batterie)**
 Information:

Stromkreis: **1**

Name	Schalter 1	Schalter 2
LUM01 CIR01	DLS intern (1/1)	Bereitschaftslicht
LUM02 CIR01	DLS intern (1/2)	Bereitschaftslicht
LUM03 CIR01	DLS intern (1/3)	LÖN-Schalter 1
Nicht installiert!		
Nicht installiert!		
Nicht installiert!		
Nicht installiert!		
Nicht installiert!		
Nicht installiert!		
Nicht installiert!		
Nicht installiert!		
Nicht installiert!		
Nicht installiert!		
Nicht installiert!		
Nicht installiert!		
Nicht installiert!		
Nicht installiert!		
Nicht installiert!		
Nicht installiert!		
Nicht installiert!		
Nicht installiert!		
Nicht installiert!		
LUM10 CIR01	3Phasenwächter (10/1)	DLS intern (1/2)

CG-Überwachung:
 Nachl. Notlicht:
 ISO +:
 ISO -:
 Sicherung:
 Überlast:
 Stromwert 14pH:

Grundriss
 Drucken
 Konfiguration
 zurück

Gruppe: **4** Typ: **CG2000** Anlage: **1**

Gruppe	Anlage	Meldung	Datum	Status
Bestätigen	1	Batterienotbetrieb	04.07.09 11:00:00	Aus
Alle Bestätigen	4	FT fault	04.07.09 11:04:53	Aus
	1	Batterienotbetrieb	04.07.09 11:04:53	Aus
	1	Batterienotbetrieb	04.07.09 11:05:57	Ein

Sonabend, 04.07.2009 11:25:16 6

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

4.3.2 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

4.4 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:

The screenshot displays the CEAG Notlichtsysteme Cockpit V5.03 software interface. The top status bar shows 'Gruppe 4', 'Typ CG2000', and 'Anlage 1'. The main area features a schematic diagram of a lighting system. A red circle with a cross indicates a fault in the circuit. Annotations point to this fault, stating 'Fault in circuit No. 1 (red)' and 'Luminaire fault (red)'. Other annotations point to the 'Circuit No. 2 to 5 O.K. (green)' status. The interface also includes a status bar at the bottom showing 'Gruppe 4', 'Typ CG2000', and 'Anlage 1'.

Luminaire No. 1 switched on (yellow)

Luminaire No. 3 (red)

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

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

Notices:

Notices:



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-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 V5.10

400 71 347 387 (E)



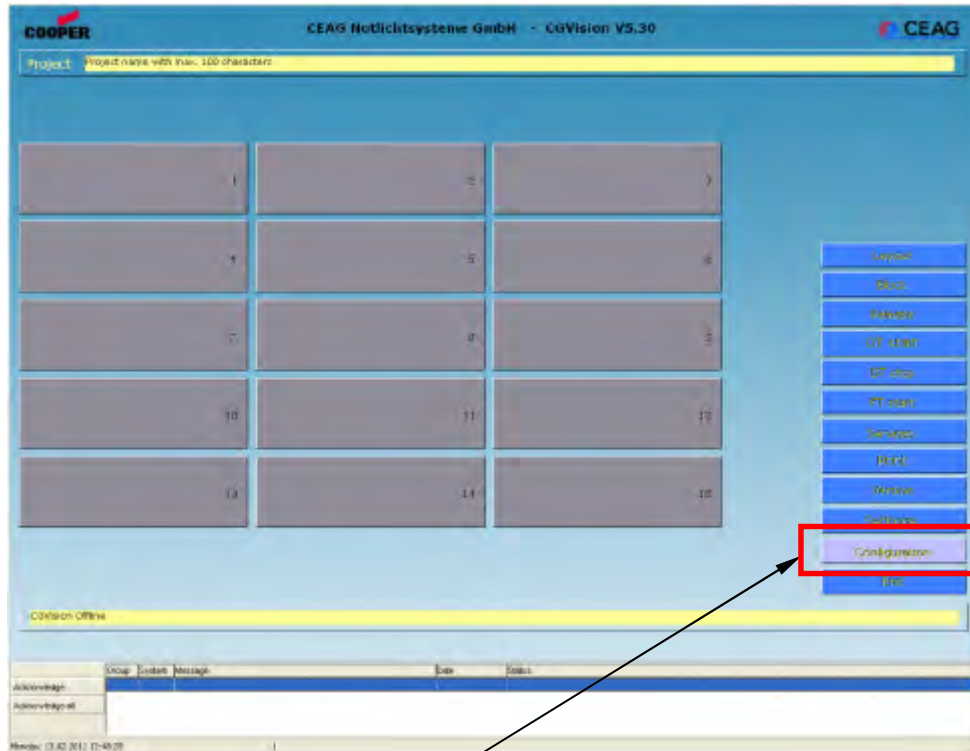
Section 5

ZB-S device family

5 ZB-S device family

5.1 Configuring a ZB-S system group

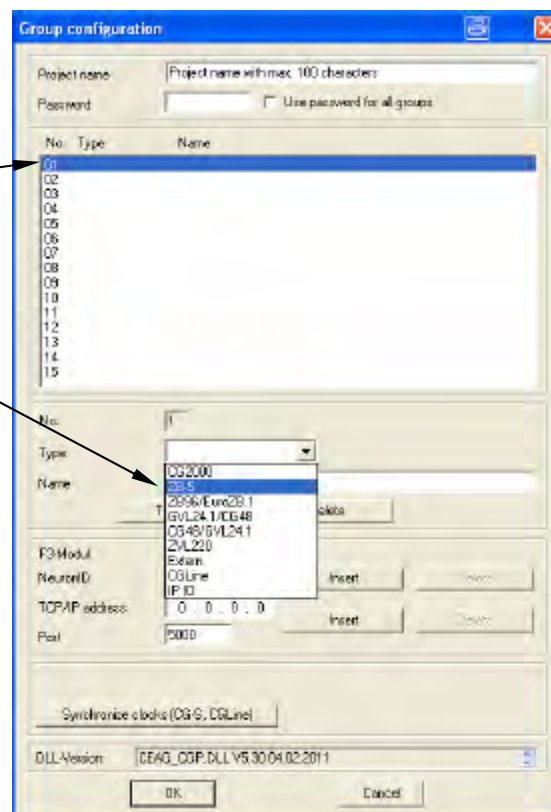
5.1.1 Configuring a ZB-S system group:

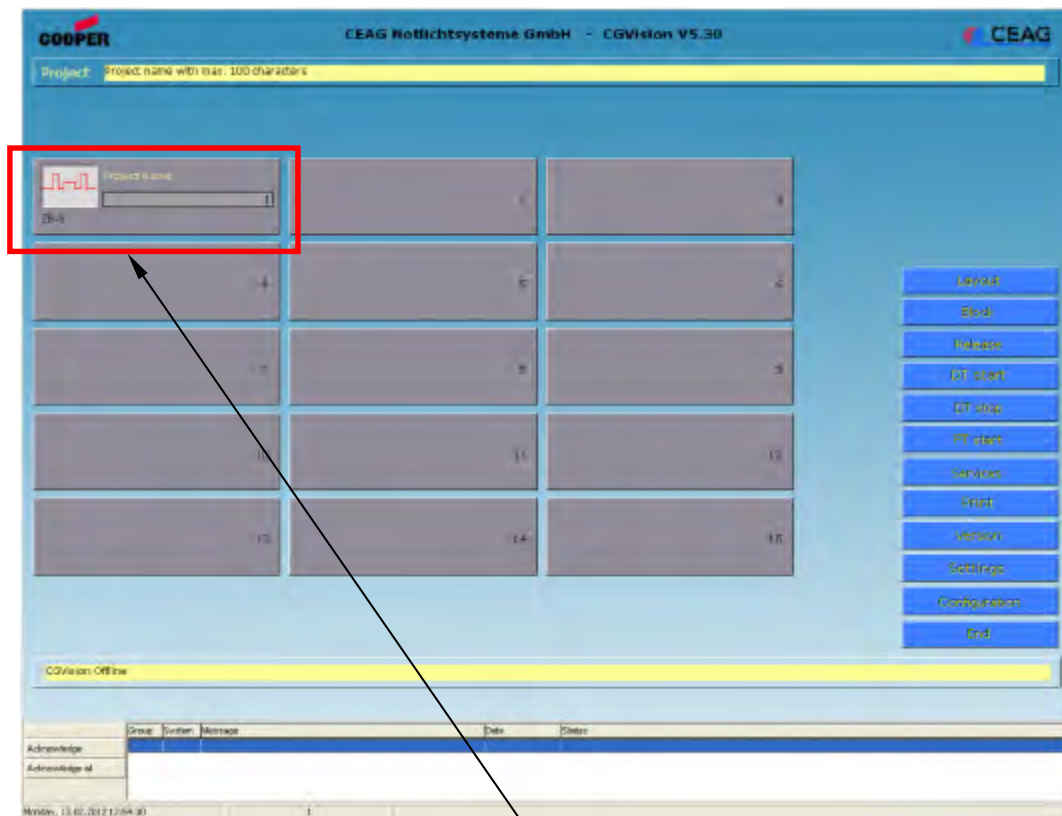


A new device family, e.g. ZB-S, can be created via the 'Configuration' menu.

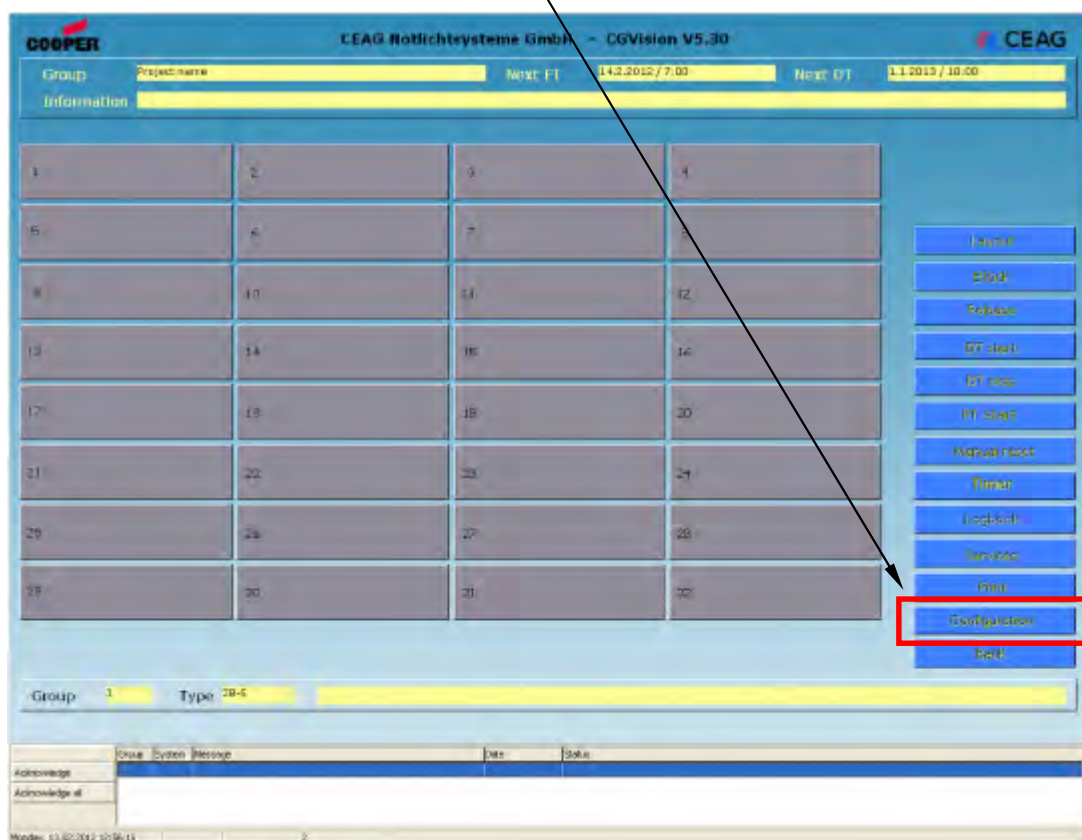
The group configuration menu then appears:

- 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.

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: Project name

Group information:

Next battery duration test: 01.01.2013 10.00

Distance: 12 Month

Next function test: 14.02.2012 07.00

Distance: 14 Days

Password:

System address: 1

System type: ZB-S

System name:

NeuronID:

NeuronID address:

Take over: Delete: Remove all:

PC -> ZB-S: PC -> H4: Save H4:

PC -> ZB-S: Load H4 -> PC: Save H4 -> PC:

Close group window:

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.

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

Page 4

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 03.02.2011 V1.02

COOPER

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: 0

Node: 0

Domain ID: ????????

Show: All

☐ CG2000

☒ ZB-S

☐ REL

☐ 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

Other: 0

ZB-S: 0

REL: 0

System founded: 0

Apply

Cancel

CEAG

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/CG2000).

All ZB-S devices found are specified in the 'search results' list.
As information, the Neuron ID, the software version Z215 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.

CEAG LON-Suchtool 30.04.2010 V1.00

COOPER

Suchen

Warten auf Service PIN

Ergebnisse speichern

Datei laden

001614193200

Suchergebnis

Neuron-ID	Prog-ID	Name	Anlagenadr.	Domain 0	Subnet 0	Node 0	Domain 1	Subnet 1	Node 1
000977545900	Z410.H [ZB-S]	Unterstation 1	2	--	0	2	01	1	2
001019017200	Z410.H [ZB-S]	Unterstation 2	3	--	0	3	01	1	3
001434520300	Z410.H [ZB-S]	Unterstation 3	32	--	0	32	01	1	32
001614193200	Z410.K [ZB-S]	ZB-S Marketing	1	--	0	1	01	1	1

Anzahl Einträge 6 Gefundene Knoten 6

Übernehmen Abbruch

CEAG

'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'.

5.2 'ZB-S device screen'

5.2.1 Structure of the device screen:

The screenshot shows the ZB-S device screen interface. The top header displays 'COOPER' and 'CEAG Notlichtsysteme GmbH - CGVision V5.30'. Below this, there are fields for 'Group' (Project name), 'System', and 'Information'. To the right, there are fields for 'Next FT' (14.2.2012 / 7:00), 'Next DT' (1.1.2013 / 10:00), 'Manual reset' (70), and 'Delay on mains return' (0 min).

The main area of the screen is divided into several sections. On the left, there is a 'Battery' section with a 'Battery capacity' bar and a 'Battery' status indicator. Below this is a '3 phase monitor' and a 'Deep discharge prot.' indicator. In the center, there is a 'Mains' status indicator. On the right, there is a table for 'SKUs' with columns 1 through 8. Below the SKUs table, there are buttons for 'Manual reset', 'LON RS485', and 'CG-S Bus'.

At the bottom, there is a 'Group' field (1) and a 'Type' field (ZB-S). Below this is a table for 'Alarm list with confirmation option, identical to the main group screen'. The table has columns for 'Group', 'Order', 'Message', 'Date', and 'Status'. The first row shows 'Acknowledge' and 'Acknowledge all'.

Annotations explain the structure of the 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
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 module supports. 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

5.2.2 Function buttons:

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). '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

Display of DLS modules

not installed / installed

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/TLS-configuration (Group 01 / System 01 / DLS-TLS 06)

☒ Module installed?

Name: DLS/TLS-Text 6

Information:

☒ DLS external

☐ DLS/3PH ext.

☐ TLS external

Delay on mains re.

Channel 1: 5 min

Channel 2: 5 min

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

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

COOPER CEAG Notlichtsysteme GmbH - CGVision V5.30

Group: Project name: Next FT: 20.2.2012 / 7:00 Next DT: 1.1.2013 / 10:00

System: ZS-S device name: Manual reset: 700 Delay on trains return: 2 min

Information:

1 DLS external OPT11 2 DLS external OPT12 3 DLS external DLS/TLS-Test 3 4 DLS external DLS/TLS-Test 4 5 DLS external DLS/TLS-Test 5

6 DLS external DLS/TLS-Test 6 7 DLS external DLS/TLS-Test 7 8 DLS/3PhW DLS/TLS-Test 8 9 DLS/3PhW 10 DLS/3PhW

Group: 1 Type: ZS-S 20 System: 1

Acknowledge	Group	System	Message	Date	Time
Acknowledge all					

Thursday, 23.02.2012 14:57:40 14.3

DLS modules 11 - 20

DLS modules 21 - 25

COOPER CEAG Notlichtsysteme GmbH - CGVision V5.30

Group: Project name: Next FT: 20.2.2012 / 7:00 Next DT: 1.1.2013 / 10:00

System: ZS-S device name: Manual reset: 700 Delay on trains return: 2 min

Information:

21 DLS external 22 DLS external 23 DLS external 24 DLS external 25 DLS external

Group: 1 Type: ZS-S 20 System: 1

Acknowledge	Group	System	Message	Date	Time
Acknowledge all					

Thursday, 23.02.2012 14:57:40 14.3

COOPER CEAG Notlichtsysteme GmbH - CGVision V5.30

Group: Project name: Next FT: 20.2.2012 / 7:00 Next DT: 1.1.2013 / 10:00

System: ZS-S device name: Manual reset: 700 Delay on trains return: 2 min

Information:

21 DLS external 22 DLS external 23 DLS external 24 DLS external 25 DLS external

Group: 1 Type: ZS-S 20 System: 1

Acknowledge	Group	System	Message	Date	Time
Acknowledge all					

Thursday, 23.02.2012 14:57:40 14.3

j). '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 CG2000, 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:

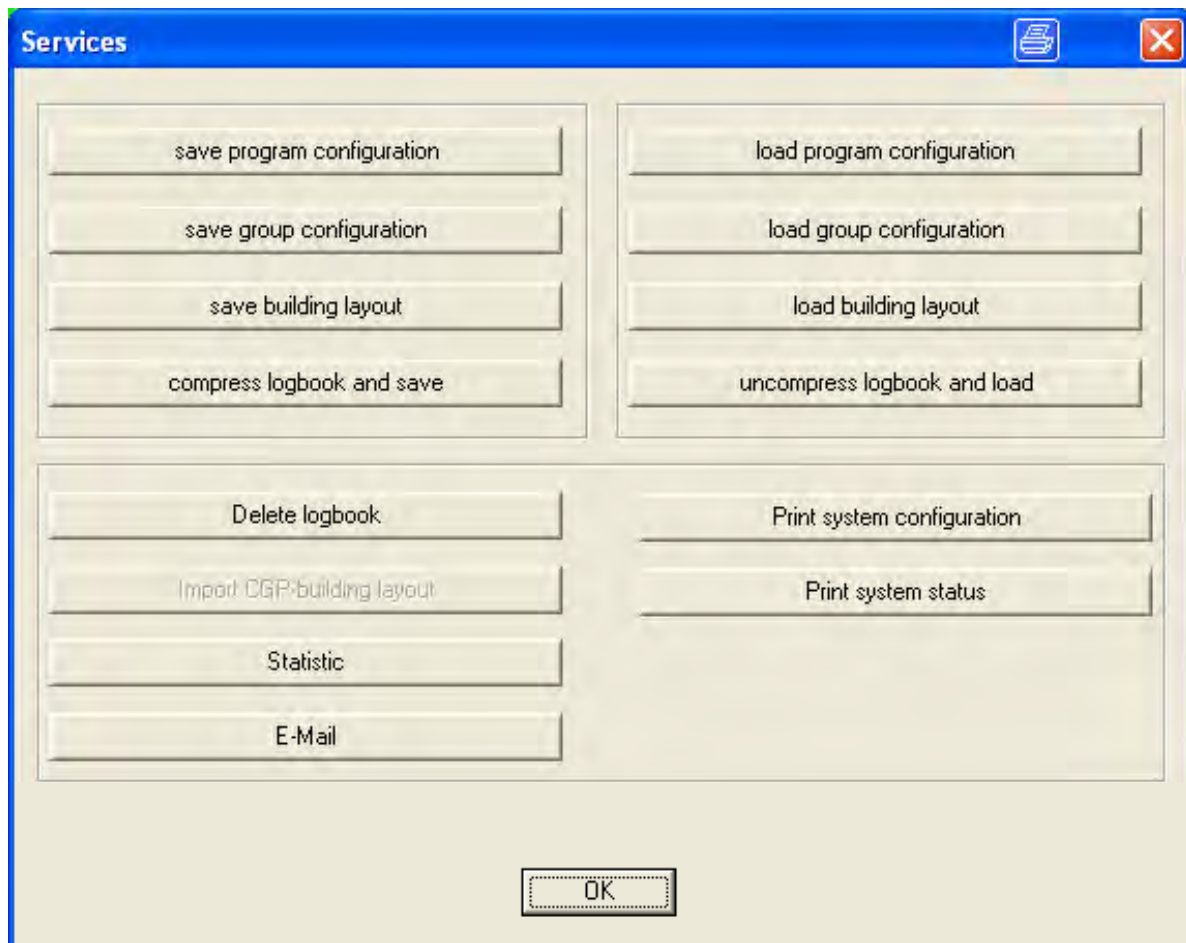
Basic settings // Connection to GLT
--> **LON switch: YES**
must be activated.

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

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

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 !

Configuration system (Group 01 / System 01 / ZB-S)

General | Charger | Settings | Relay | Operation time | Function keys | Option inputs | Timer

Name:

Information:

Address: 0 - 32

Substation set-up (available from 09/2003)

Group: 1 1 - 15

S1/S2 mode (Block)

Master: ☐

Slave: ☐

S3/S4 mode (Mains failure DB) (available from 09/2004)

Not acty.: ☐

Master: ☐

Slave: ☐

CEAG_ZBS.DLL V5.30 14.01.2011

Start DLS/TLS searching | Start luminaire searching | Start learn cur. value

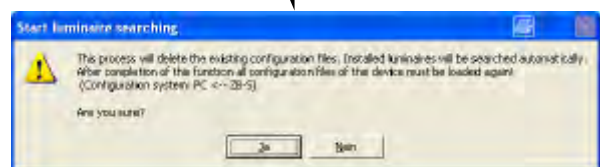
PC --> ZB-S | PC <-- ZB-S | Cancel

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 (see page xx)

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

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

Charger installed =
central battery system

Charger not installed =
substation

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

Configuration system (Group 01 / System 01 / ZB-S)

General | Charger | Settings | **Relay** | Operation time | Function keys | Option inputs | Timer

	Relay 1	Relay 2	Relay 3	Buzzer
Mains operation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mains failure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mains failure DB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Charging failure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Circuit failure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Luminaire failure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sum failure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Deep discharge protection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ISO-failure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>

Load default value

Start DLS/TLS searching | Start luminaire searching | Start learn cur. value

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

Randomly assignable relay contacts and summer function, randomly programmable

Settings can be reset to factory settings with 'Open standard values'

e). Operating duration

Configuration system (Group 01 / System 01 / ZB-S)

General | Charger | Settings | Relay | **Operation time** | Function keys | Option inputs | Timer

Rated operation time: 3 h

Min. operation time: 100 % (0 - 100)

Start DLS/TLS searching | Start luminaire searching | Start learn cur. value

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

Specification of operating time (battery operation):

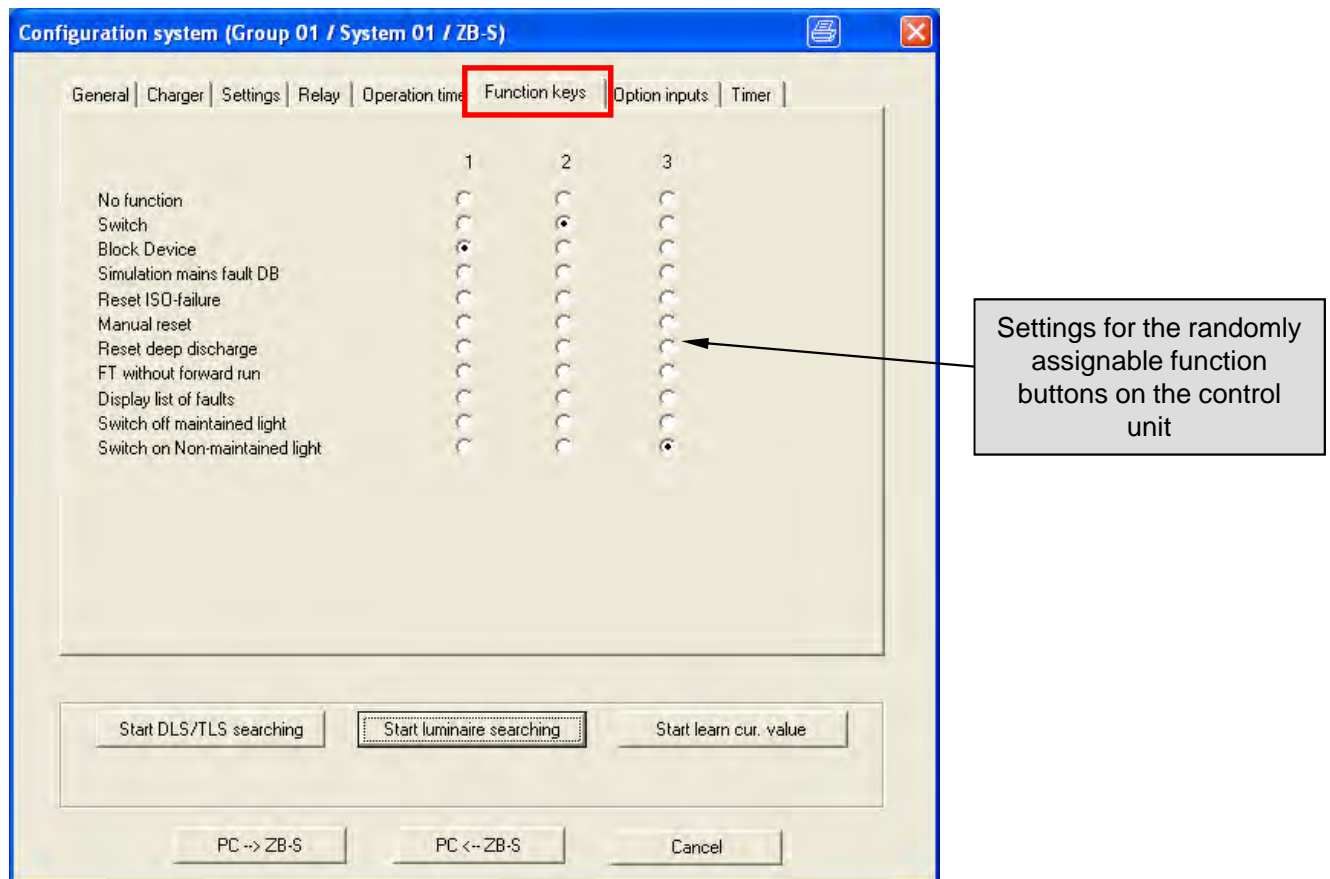
- 1 - hour
- 2 - hour
- 3 - hour
- 8 - hour

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

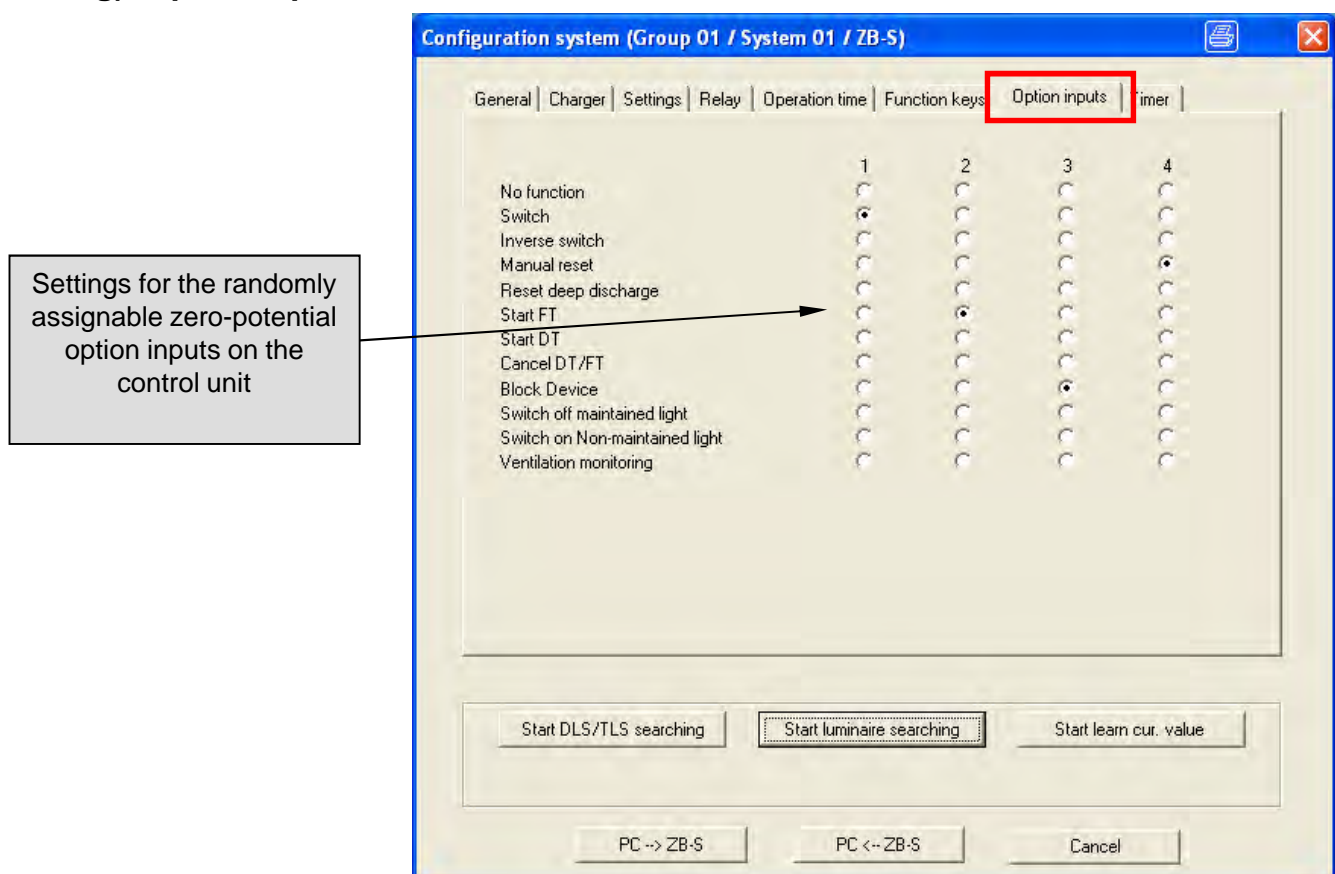
The standard is: continuous operation test = rated operating time

about m. 'Configuration of system' (device)

f). Function buttons



g). Option inputs



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

Configuration system (Group 01 / System 01 / ZB-S)

General | Charger | Settings | Relay | Operation time | Function keys | Option inputs | **Timer**

Attention!
In use with CGVision the internal timer function is not activated. Please, use in this case the CGVision timer function.

☐ Timer (available from 09/2003)

Timer 1

on: 00:00

off: 23:59

Timer 2

Mo. Tu. We. Th. Fr. Sa. Su.

☒ ☒ ☒ ☒ ☒ ☒ ☒

Start DLS/TLS searching Start luminaire searching Start learn cur. value

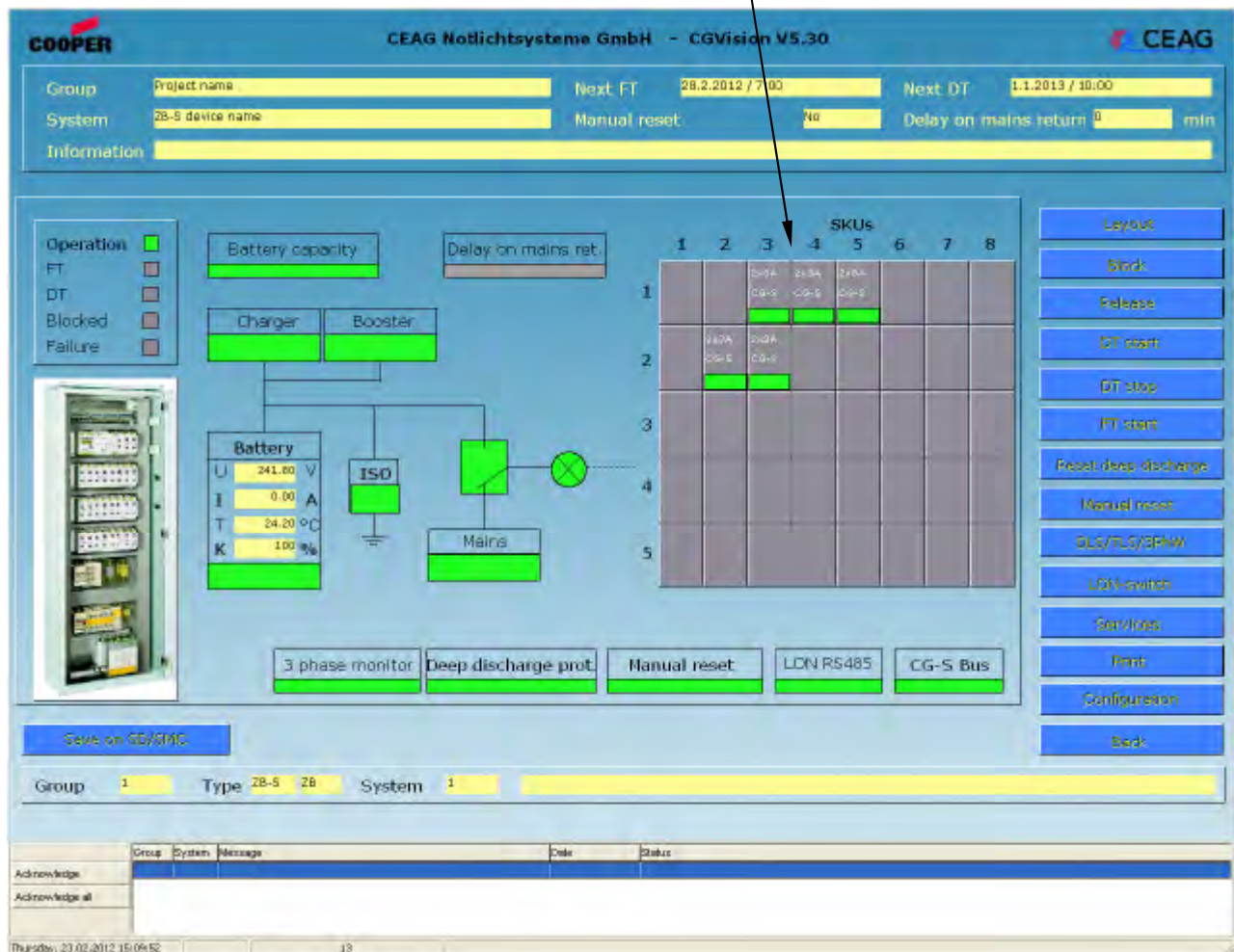
PC --> ZB-S PC <-- ZB-S Cancel

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 2.2 System group screen h.) Timer

5.4 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)



about 5.4 Circuit change-over module screen

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

COOPER **CEAG Notlichtsysteme GmbH -CGVision V5.03** **CEAG**

Gruppe: **Anlagengruppe 1** nächster FT: **12.7.2009 / 10:01** nächster BT: **1.8.2009 / 10:00**
 Anlage: **Name max. 20 Zeichen** Handrückschaltung: **Nein** Nachlaufzeit: **0** min
 Information: **Zusatzinformationen mit max. 100 Zeichen**

SKU: **1/8 CG-G 3x28**

1 max. 20 Zeichen <input type="text"/>	2 max. 20 Zeichen <input type="text"/>
CG-Überwachung	CG-Überwachung
Per Leuchtensetup	Dauerlicht(Netz)
Benutzerschlüssel	Benutzerschlüssel
3 Nicht Vorhanden	4 Nicht Vorhanden
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

Grundriss
Drucken
zurück

Gruppe: **1** Typ: **ZB-S ZB** Anlage: **1** 11.07.2009 11:51:39 Freigegeben

Gruppe	Anlage	Meldung	Datum	Status
Belastungen				
Alle Belastungen				

Sonntag, 11.07.2009 13:44:51 95

5.5 Circuit screen

5.5.1 Structure of the circuit screen

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

Buttons for luminaire configuration (per luminaire) see Point 4.3.2 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 4.3.2 Luminaire configuration under 'Luminaire information'

Button for circuit configuration (see Point 4.3.1 circuit configuration)

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**

**Information Leuchte 1:
SL 22011 CG-S mit Leuchtmittel T5/8Watt, Montagehöhe 5m!
Leiter erforderlich.**

CEAG Notlichtsysteme GmbH - CGVision V3.03

Gruppe: Anlagengruppe 1 **nächster FT:** 12.7.2009 / 10:01 **nächster BT:** 1.8.2009 / 10:00

Anlage: Name max. 20 Zeichen **Handdruckschaltung:** Nein **Nachlaufzeit:** 2 min

Stromkreis: max. 20 Zeichen **Schalter 1:** Per Leuchtenstuf **Schalter 2:** Bereitschaftslicht

Information: max. 100 Zeichen Zusatzinformationen

SKU	D/S	CG-S	Z/S	1	Name	Schalter 1	Schalter 2
1					SL 21011 CG-S	Bereitschaftslicht	Bereitschaftslicht
2					RZ 55011 CG-S PL	Dauerlicht/Netz	Bereitschaftslicht
3					RZ 55011 CG-S PU	Dauerlicht/Netz	Bereitschaftslicht
4					SL 21011 CG-S	DLS extern (3/1)	DLS extern (3/2)
5					RZ 55011 CG-S PR	Dauerlicht/Netz	Bereitschaftslicht
6					SL 21011 CG-S	DLS extern (3/6)	DLS extern (3/3)
7					SL 21011 CG-S	Bereitschaftslicht	Bereitschaftslicht
8					RZ 55011 CG-S PU	Dauerlicht/Netz	Bereitschaftslicht
9					RZ 55011 CG-S PU	Dauerlicht/Netz	Bereitschaftslicht
10					SL 21011 CG-S	DLS extern (3/8)	DLS extern (3/2)
11					Nicht installiert		
12					Nicht installiert		
13					Nicht installiert		
14					Nicht installiert		
15					Nicht installiert		
16					Nicht installiert		
17					Nicht installiert		
18					Nicht installiert		
19					Nicht installiert		
20					Nicht installiert		

Grundriss
Drucken
Konfiguration
zurück

Gruppe: 1 **Typ:** 2B-S **Anlage:** 1 **11.07.2009 11:51:39 Freigegeben**

Benutzen
Alle Benutzen

Stromkreis: 11.07.2009 11:51:39

5.6 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

Stromkreisconfiguration (Gruppe 01 / Anlage 01)

SKU 1/5 Stromkreis SKU-Typ SKU CG-S 240A

Name max. 20 Zeichen
Information max. 100 Zeichen Zusatzinformationen

Überwachung
☒ CG-Überwachung
☐ Stromwertüberwachung
☐ Reserve
 Stromwertabweichung % (1-99%)

Schalter 1
☐ Bereitschaftslicht
☐ Dauerlicht(Netz)
☒ Per Leuchtensetup
☐ Timer 1
☐ Timer 2
☐ Timer 1+2
☐ LON-Schalter
☐ Funktionstasten
☐ Optionseingänge
☐ DLS
☐ TLS
☐ 3Phasenwächter

Schalter 2
☒ Dauerlicht(Batterie)
☐ LON-Schalter
☐ Funktionstasten
☐ Optionseingänge
☐ DLS
☐ TLS
☐ 3Phasenwächter

Instal. Leistung
 VA
 W

Leuchte Übersicht

<input checked="" type="checkbox"/>	1	SL 21011 CG-S
<input checked="" type="checkbox"/>	2	RZ 55011 CG-S PL
<input checked="" type="checkbox"/>	3	RZ 55011 CG-S PU
<input checked="" type="checkbox"/>	4	SL 21011 CG-S
<input checked="" type="checkbox"/>	5	RZ 55011 CG-S PR
<input checked="" type="checkbox"/>	6	SL 21011 CG-S
<input checked="" type="checkbox"/>	7	SL 21011 CG-S
<input checked="" type="checkbox"/>	8	RZ 55011 CG-S PU
<input checked="" type="checkbox"/>	9	RZ 55011 CG-S PU
<input checked="" type="checkbox"/>	10	SL 21011 CG-S
<input type="checkbox"/>	11	SKU1/5 CIR1 LUM11
<input type="checkbox"/>	12	SKU1/5 CIR1 LUM12
<input type="checkbox"/>	13	SKU1/5 CIR1 LUM13
<input type="checkbox"/>	14	SKU1/5 CIR1 LUM14
<input type="checkbox"/>	15	SKU1/5 CIR1 LUM15
<input type="checkbox"/>	16	SKU1/5 CIR1 LUM16
<input type="checkbox"/>	17	SKU1/5 CIR1 LUM17
<input type="checkbox"/>	18	SKU1/5 CIR1 LUM18
<input type="checkbox"/>	19	SKU1/5 CIR1 LUM19
<input type="checkbox"/>	20	SKU1/5 CIR1 LUM20

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

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)

5.7 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)

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

Leuchtenkonfiguration

Leuchte

Name: SL 22011 CG-S

Information: SL 22011 CG-S mit Leuchtmittel T5/8w/att, Montagehöhe 5m !
Leiter erforderlich.

☐ ohne CGS (Dauerlicht)
☐ Bereitschaftslicht
☐ Dauerlicht

Schalter 1

☐ Timer 1
☐ Timer 2
☐ Timer 1+2
☐ LON-Schalter
☐ Funktionstasten
☐ Optionseingänge
☒ DLS: DLS extern 3, 1

Schalter 2

☐ Keine Funktion
☐ LON-Schalter
☐ Funktionstasten
☐ Optionseingänge
☒ DLS: DLS extern 3, 4

OK Abbruch

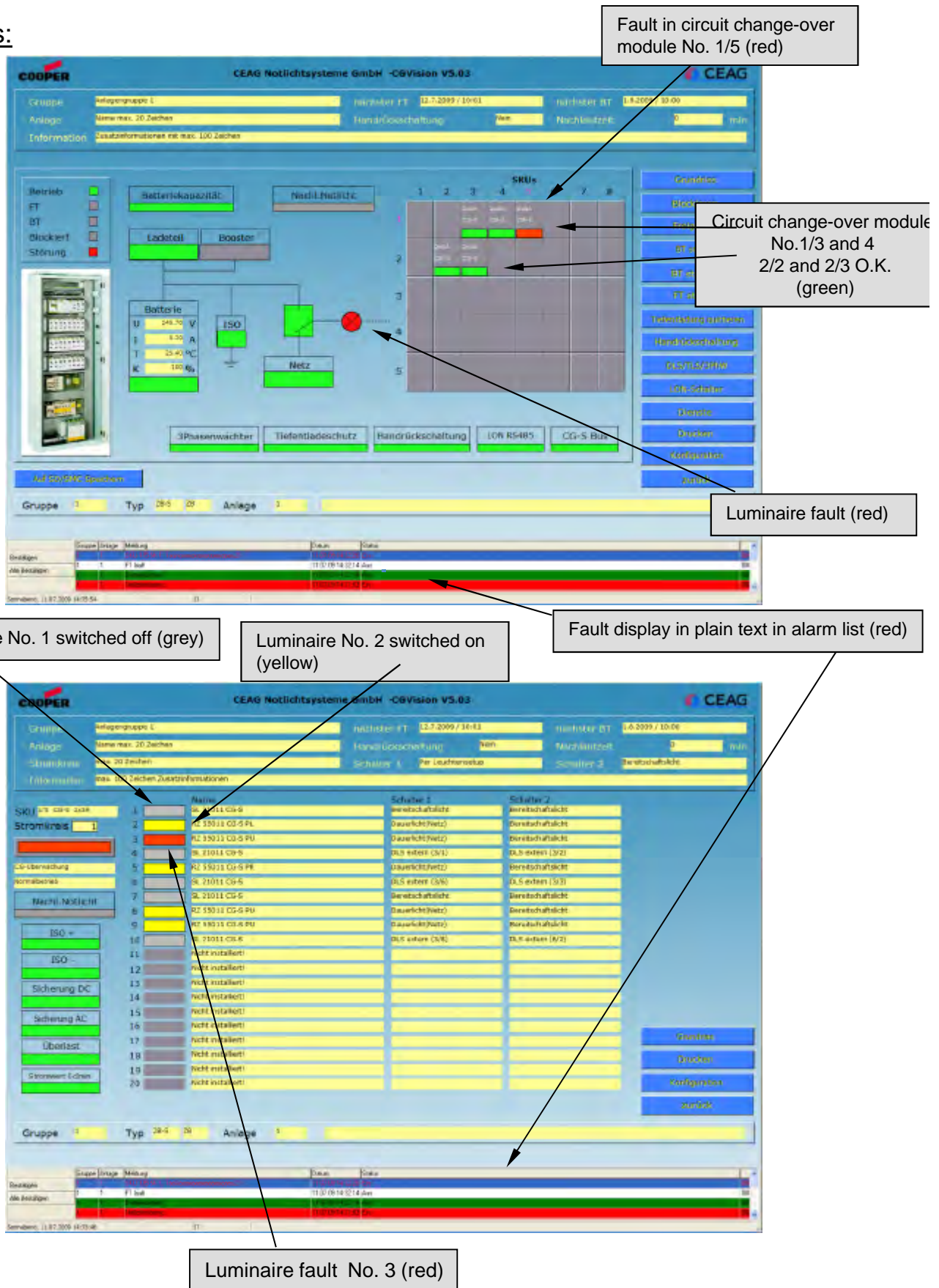
The above example shows programming of the luminaire to
Switch 1 = DLS module 3 – input 1
and Switch 2 = DLS module 3 – input 4.

5.8 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:



Notices:

Notices:

Notices:



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-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 V5.10

400 71 347 387(E)



Section 6

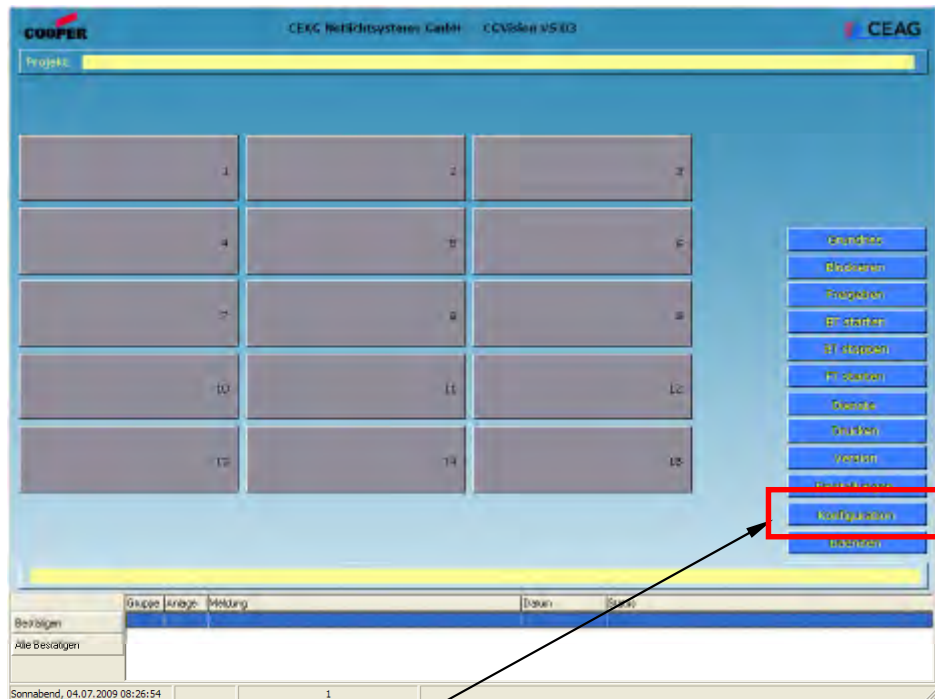
Device family ZB96/EuroZB.1

6 Device family ZB96 / EURO ZB.1

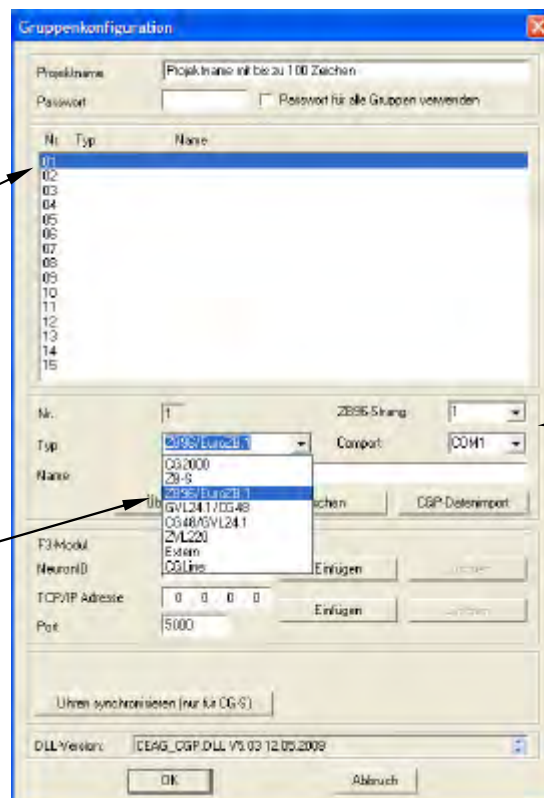
6.1. Configuring a ZB 96 / Euro ZB.1 EGA line

6.1.1 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-String:

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-String:

Typ: Comport:

Name:

F3-Modul:

NeuronID:

TCP/IP Adresse:

Port:

DLL-Version:

Assigning the COM port:

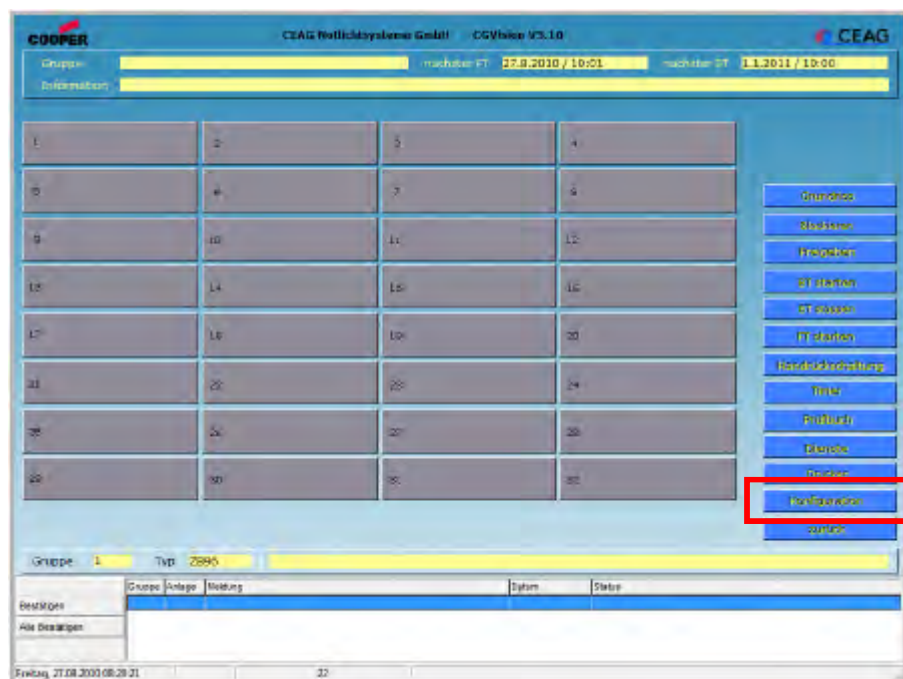
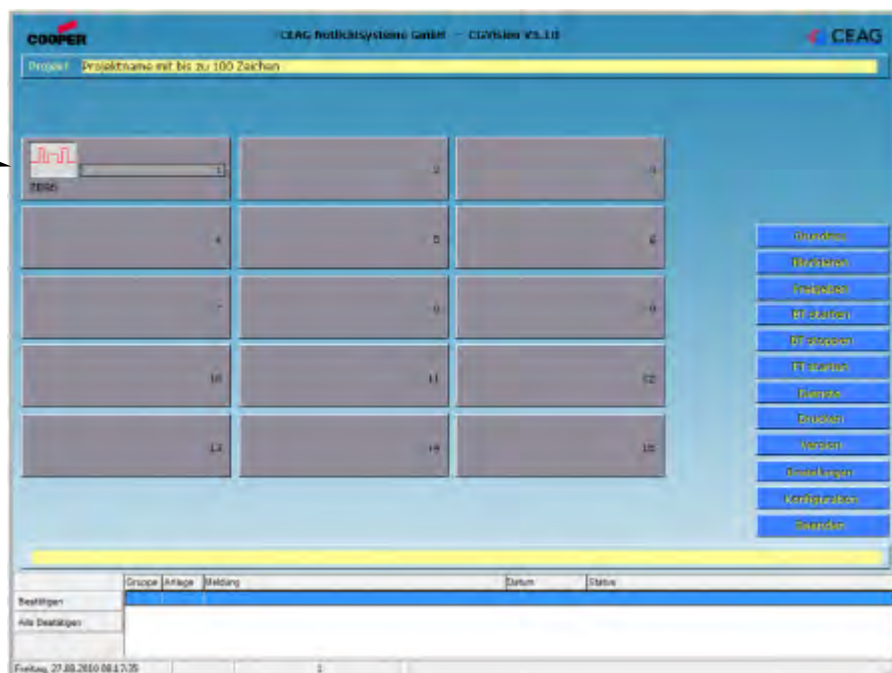
After entering the EGA line this can be assigned to a COM port (1 to 255) via the drop-down menu.

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.

6.1.2 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.

The 'Konfiguration Gruppe' window shows a list of device addresses from 1 to 32. To the right, there are fields for 'Gruppenname', 'Gruppeninformation', 'nächster Betriebsanruf' (next business call) with date and time, 'Abstand' (interval) in months, 'nächster Funktionszeit' (next function time) with date and time, and 'Abstand' in days. There is also a 'Passwort' field and a checkbox for 'E-Mail Einsparungen'. At the bottom, there are fields for 'Anlagenname' and 'Anlagentyp' (set to ZB96/EuroZB.1), and buttons for 'Übernehmen', 'Löschen', and 'Alle löschen'. The 'OK' and 'Abbruch' buttons are at the very bottom.

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.

The main interface shows a grid of device status buttons (1-32). A red box highlights the button for device 1, which is labeled 'ZB96' and 'Betriebsbereit'. On the right, there is a vertical menu with buttons for 'Grundriss', 'Bedienen', 'Freigegeben', 'BT starten', 'BT stoppen', 'BT status', 'Handhakenstellung', 'Taster', 'Geräte', 'Geräte', 'Geräte', 'Konfiguration', and 'Zurück'. At the bottom, there is a table with columns for 'Gruppe', 'Anlage', 'Werkung', 'Datum', and 'Status'.

6.2 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: Projektname mit bis zu 100 Zeichen

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.: 1 ZB96-Strang: 1

Typ: ZB96/EuroZB.1 Comport: COM1

Name:

Übernehmen Löschen **CGP-Datenimport**

F3-Modul: Einfügen Löschen

NeuronID: Einfügen Löschen

TCP/IP Adresse: 0 . 0 . 0 . 0 Einfügen Löschen

Port: 5000 Einfügen Löschen

Uhren synchronisieren (nur für CG-S)

DLL-Version: CEAG_CGP.DLL V5.03 12.05.2009

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: A:\

Verzeichnis: C:\Programme\CEAG\cgvision\texte\

Typ: ZB96/EuroZB.1

Gruppennummer: 1 (1 - 15)

Gruppenname:

Strang: 1 (1 - 8)

Comport: COM1 (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.

6.3 'Device screen – ZB96'

6.3.1 Structure of the device screen:

The screenshot shows the CEAG ZB96 device screen interface. The top header displays 'COOPER' and 'CEAG Notlichtsysteme GmbH -CGVision V5.03'. Below this, there are input fields for 'Gruppe' (Group) and 'Anlage' (Plant), and a 'nächster FT' (next function test) date/time field. A 'Handrückschaltung' (manual reset) button is also present. The 'Information' field shows 'Zusatzinformationen mit max. 100 Zeichen'.

On the left, there are status indicators for 'Betrieb' (Operation), 'FT' (Function Test), 'BT' (Battery Test), 'Blockiert' (Blocked), and 'Störung' (Fault). Below these is a small image of the device. The main area displays a schematic diagram of the battery system, including 'Ladeteil' (Charging part), 'Booster', 'Batterie' (Battery) with voltage (U), current (I), temperature (T), and state of charge (K) readings, 'ISO' (Isolation), 'Netz' (Network), 'Tiefentladeschutz' (Deep discharge protection), and 'Kommunikation' (Communication).

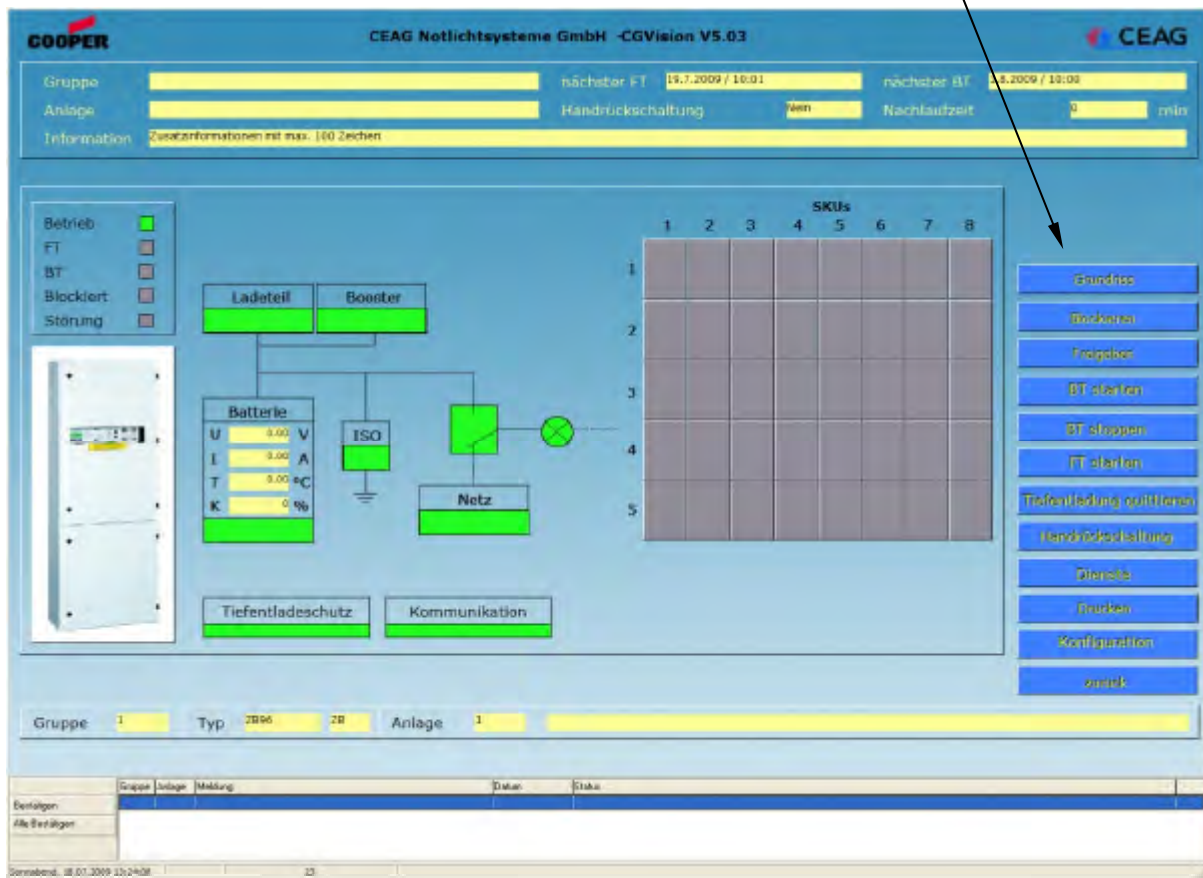
On the right, there is a table for 'SKUs' (Serial Key Units) with columns 1 through 8 and rows 1 through 5. Below the table are buttons for 'Grundreze' (Basic reception), 'Blockieren' (Blocking), 'Freigeben' (Release), 'BT starten' (Start BT), 'BT stoppen' (Stop BT), 'FT starten' (Start FT), 'Tiefentladung quittieren' (Acknowledge deep discharge), 'Handrückschaltung' (Manual reset), 'Diagnose' (Diagnosis), 'Quittieren' (Acknowledge), 'Konfiguration' (Configuration), and 'Zurück' (Back).

At the bottom, there is a table for 'Alarmen' (Alarms) with columns for 'Gruppe', 'Anlage', 'Meldung', 'Datum', and 'Status'. The table shows a list of alarms with a 'Zurück' button next to each entry.

Annotations explain the structure of the 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
- Direct status messages of device
- Button for commands or configuration settings
- 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.
- Alarm list with confirmation option, identical to the main group screen

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'

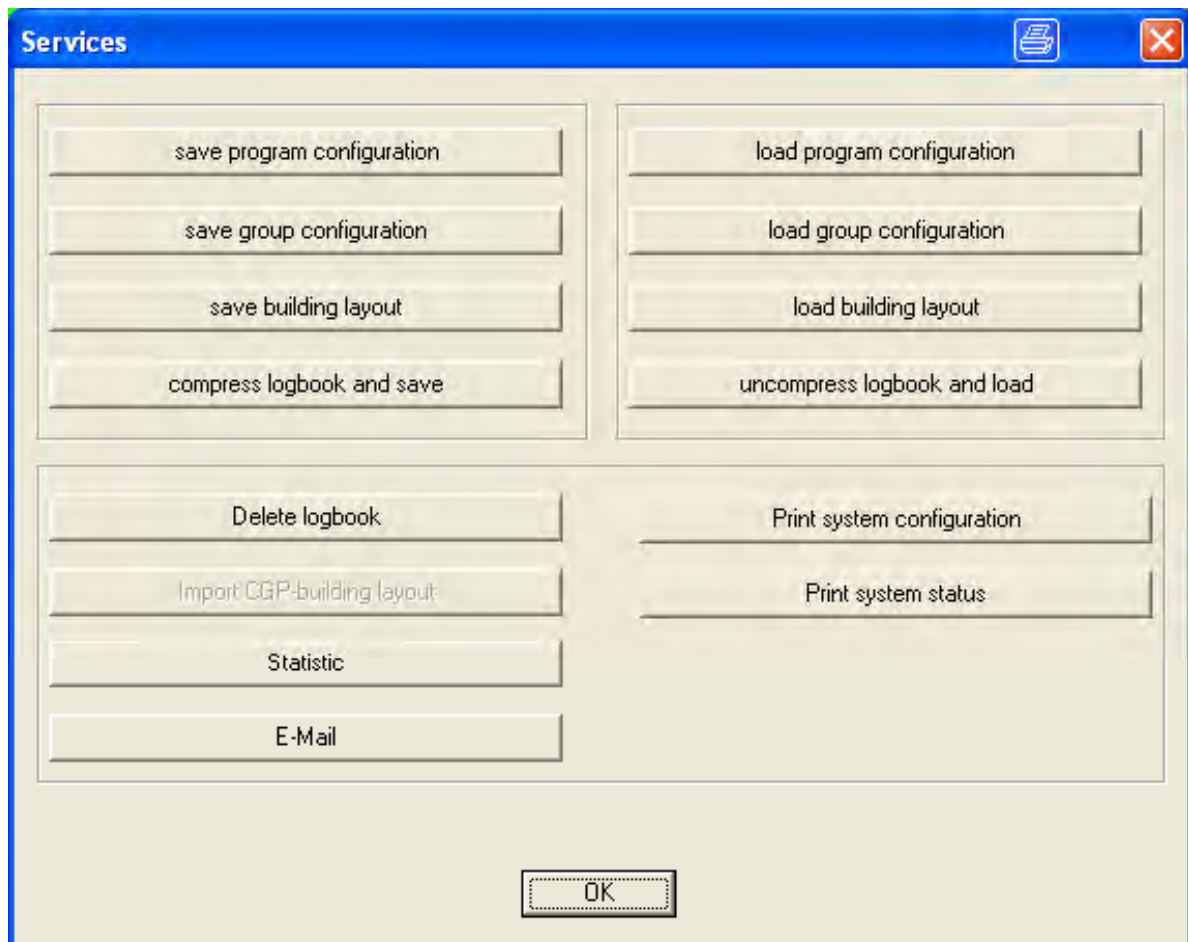
Return to system group screen

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 2.2 "System group screen", i) 'Services'.

k. 'Configuration of system' (device)

a). General

Entry of device name and supplementary information

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

Angeschlossene US:

PC --> ZB96 PC <-- ZB96 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 0 min

Ladeteil

Kapazität 0 Ah (5 - 999)

Anzahl Booster 0 (0 - 10)

Information Batterietyp Batterieinformationen, max. 100 Zeichen

Information Batterie allgemein Batterie-Zusatzinformationen, max.. 100 Zeichen

Angeschlossene US 0 min

PC --> ZB96 PC <-- ZB96 Abbruch

k. 'Configuration of system' (device)
c). TLS times

The screenshot shows the 'Konfiguration Anlage (Gruppe 01 / Anlage 01 / ZB96)' window. The 'TLS-Zeiten' field is open, displaying a list of inputs from 'Eingang 1: 0' to 'Eingang 18: 0'. An arrow points from a text box to the 'Eingang 1: 0' option in the list.

With installed TLS modules (max. 4), inputs from 1 to 32 can be selected via the 'TLS times' drop-down menu.

The screenshot shows the same 'Konfiguration Anlage' window, but now the 'min' dropdown menu for the 'Eingang 1: 0' field is open, displaying a list of values from 0 to 15. An arrow points from a text box to the '0' option in the list.

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.

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

Angeschlossene US:

PC --> ZB96 PC <-- ZB96 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

Handruckschaltung: ☐

Nachlaufzeit: 0 min

TLS-Zeiten: Eingang 1: 0 min

Installierte SKU: SKU 1/1:

Ladeteil: ☐

Kapazität: 24 Ah (5 - 899)

Anzahl Booster: 1 (0 - 10)

Information Batterietyp: Feld für Batterieinformationen, max. 100 Zeichen

Information Batterie allgemein: weitere Batterie-Zusatzinformationen, max. 100 Zeichen

ZB-Zuordnung: 1

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.

6.4 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 CEAG Notlichtsysteme GmbH - CGVision V5.03 software interface. The top header includes the company name and version. Below the header, there are fields for Gruppe, Anlage, and Information. The main area shows a system diagram with components like Ladeteil, Booster, Batterie, ISO, Netz, Tiefentladeschutz, and Kommunikation. A central table displays SKUs (1-8) with status indicators. A sidebar on the right contains buttons for Grundriss, Blockieren, Freigeben, BT starten, BT stoppen, FT starten, Tiefentladung quillieren, Handrückschaltung, Dienst, Drucken, Konfiguration, and Zurück. The bottom status bar shows Gruppe 1, Typ ZB96, ZB, Anlage 1.

6.4 Circuit change-over module screen

6.4.1 Structure of the circuit change-over module screen

The screenshot displays the CEAG Notlichtsysteme GmbH -CGVision V5.01 interface. The top header includes the COOPER logo, company name, and version. The main area is divided into several sections:

- Top Information Bar:** Contains fields for 'Gruppe', 'Anlage', and 'Information'. It also displays 'nächster FT' (12.9.2009 / 10:01), 'nächster BT' (1.1.2010 / 10:00), 'Handrückschaltung' (Niem), and 'Nachlaufzeit' (0 min).
- Left Panel:** Shows 'SKU' (1/3 CG 2x2A/2x3A/4x3A), 'Stromkreis' (1 and 2), and 'CG-Überwachung' settings for 'Bereitschaftslicht', 'Dauerlicht', 'Schalter', 'DLS1', 'DLS2', and 'TLS'.
- Central Display:** Features two rows of 20 colored squares (yellow and green) representing circuit status.
- Right Panel:** Includes buttons for 'Grundriss', 'Drucken', 'Konfiguration', and 'Zurück'.
- Bottom Section:** Contains a table with columns 'Gruppe', 'Anlage', 'Meldung', 'Datum', and 'Status'. It lists 'Beitragen' and 'Alle Beitragen'.

Annotations with arrows point to specific elements:

- Text fields for information, e.g. device, location etc.** points to the 'Gruppe' and 'Anlage' fields.
- Displays next function test / continuous operation test and further circuit configurations** points to the 'nächster FT' and 'nächster BT' fields.
- Circuit configurations, such as switching type, DLS assignment etc.** points to the 'CG-Überwachung' settings.
- Button for circuit configuration (see Point 6.4.2 circuit configuration)** points to the 'Konfiguration' button.
- Alarm list with confirmation option, identical to the main group screen** points to the bottom table.
- Installed luminaires with status display in the first circuit (max. 40 characters)** points to the first row of colored squares.
- Installed luminaires with status display in the second circuit (max. 40 characters) with circuit change-over module 2x2A/2x3A** points to the second row of colored squares.

6.4.2 Circuit configuration

Specification of the monitoring type

Input of circuit name and supplementary information

Display of circuit change-over module, circuit and circuit change-over module type

SKU-Konfiguration (Gruppe 02 / Anlage 01)

SKU 1/3 Stromkreis 1 SKU-Typ SKU CG 2x2A/2x3A/4x1A

Name
max. 40 Zeichen

Information
Zusatzinformationen mit max. 100 Zeichen

☒ CG-Überwachung

☐ Bereitschaftslicht

☒ Dauerlicht

☐ Schalter

Timer 1

Timer 2

DLS1

DLS2

TLS

Information Leuchte

Instal. Leistung

Grundriss

FC -> ZB96

Abbruch

Leuchten

<input checked="" type="checkbox"/>	1	SL 22011 CG-S
<input checked="" type="checkbox"/>	2	RZ 55011 CG-S PU
<input checked="" type="checkbox"/>	3	SL 22011 CG-S
<input checked="" type="checkbox"/>	4	SL 22011 CG-S
<input checked="" type="checkbox"/>	5	RZ 55011 CG-S PR
<input checked="" type="checkbox"/>	6	RZ 55011 CG-S PU
<input checked="" type="checkbox"/>	7	SL 22011 CG-S
<input checked="" type="checkbox"/>	8	SL 22011 CG-S
<input checked="" type="checkbox"/>	9	RZ 55011 CG-S PL
<input checked="" type="checkbox"/>	10	RZ 55011 CG-S PR
<input type="checkbox"/>	11	SKU1/3 CIR1 LUM11
<input type="checkbox"/>	12	SKU1/3 CIR1 LUM12
<input type="checkbox"/>	13	SKU1/3 CIR1 LUM13
<input type="checkbox"/>	14	SKU1/3 CIR1 LUM14
<input type="checkbox"/>	15	SKU1/3 CIR1 LUM15
<input type="checkbox"/>	16	SKU1/3 CIR1 LUM16
<input type="checkbox"/>	17	SKU1/3 CIR1 LUM17
<input type="checkbox"/>	18	SKU1/3 CIR1 LUM18
<input type="checkbox"/>	19	SKU1/3 CIR1 LUM19
<input type="checkbox"/>	20	SKU1/3 CIR1 LUM20

Circuit programming such as Switching type and DLS/TLS assignment

Adding/removing luminaires via checking of control boxes. After adding luminaires, luminaire texts in plain text, max. 40 characters can be entered

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

After circuit configuration, the circuit screen with text information can be opened by clicking on the button for the circuit or luminaire.

CEAG CGVision V1.04 - CEAG Notlichtsysteme GmbH

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

6.5 Circuit screen

6.5.1 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

COOPER CEAG Notlichtsysteme GmbH - CGVision V5.03

Gruppe: nächster FT: 12.9.2009 / 10:01 nächster BT: 1.1.2010 / 10:00

Anlage: Handrückschaltung: ☐ Nachbefeuerung: min

Stromkreis: BL: ☐ DL: ☐ Timer 1: Timer 2: DLS1: DLS2: TLS:

Information:

SKU: 1/3 CG 2x24/2x30/4x14

Stromkreis: 1

Überlast: ☐

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

8 SL 22011 CG-S

9 RZ 55011 CG-S PL

10 RZ 55011 CG-S PR

11 Nicht installiert!

12 Nicht installiert!

13 Nicht installiert!

14 Nicht installiert!

15 Nicht installiert!

16 Nicht installiert!

17 Nicht installiert!

18 Nicht installiert!

19 Nicht installiert!

20 Nicht installiert!

Grundriss

Drucken

zurück

Gruppe: Typ: 2006 Anlage:

Gruppe	Anlage	Meldung	Datum	Status
Befehlsgruppen	1	FT (akt.)	11.09.09 14:02:30	Ein
Alle Befehlsgruppen	1	FT (akt.)	11.09.09 14:02:30	Ein
	1	FT (akt.)	11.09.09 14:02:30	Ein

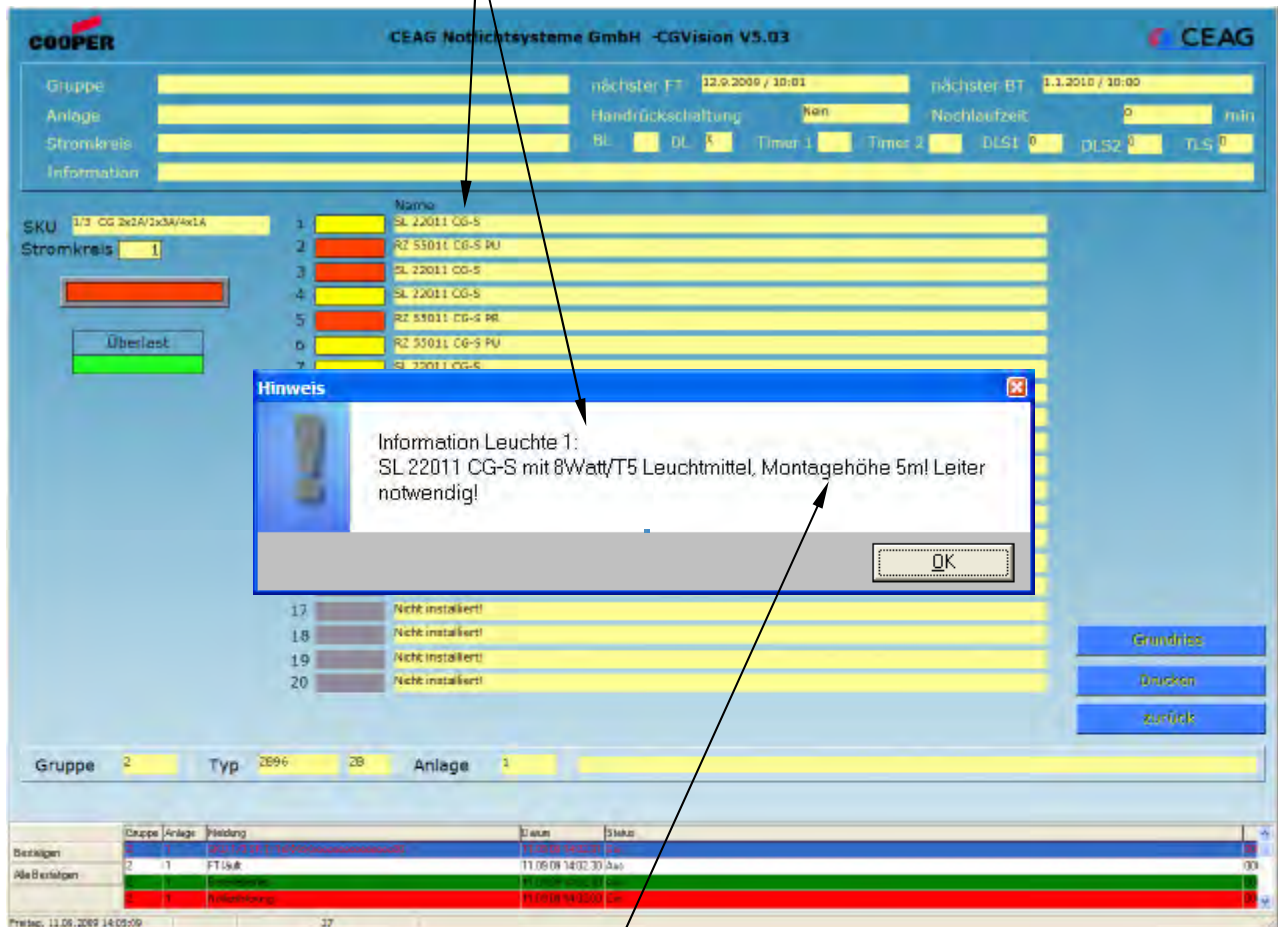
Printen: 11.09.2009 14:05:09

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

Luminaire texts

6.5.2 Extended luminaire text display

By clicking on the luminaire text, further luminaire texts can be called up that were entered in 5.4.1 Circuit configuration under 'Luminaire information'.



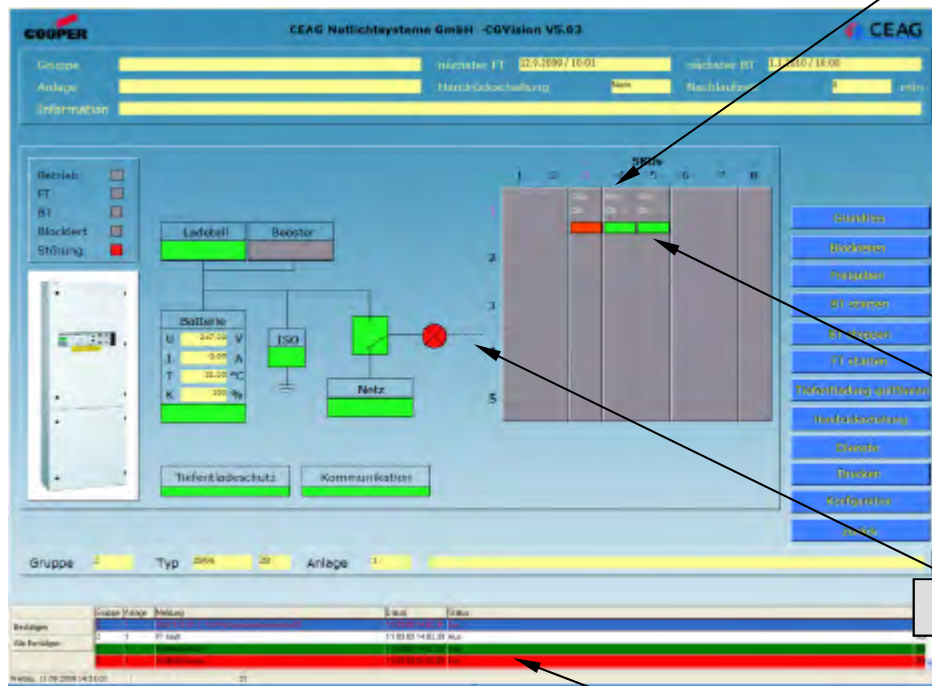
Expanded luminaire texts, e.g. with specification of mounting height. Luminaire type, order number etc.
Note: With a faulty luminaire this text is also printed out in the fault printout.

6.6 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:



Fault in circuit change-over module No. 1/3 (red)

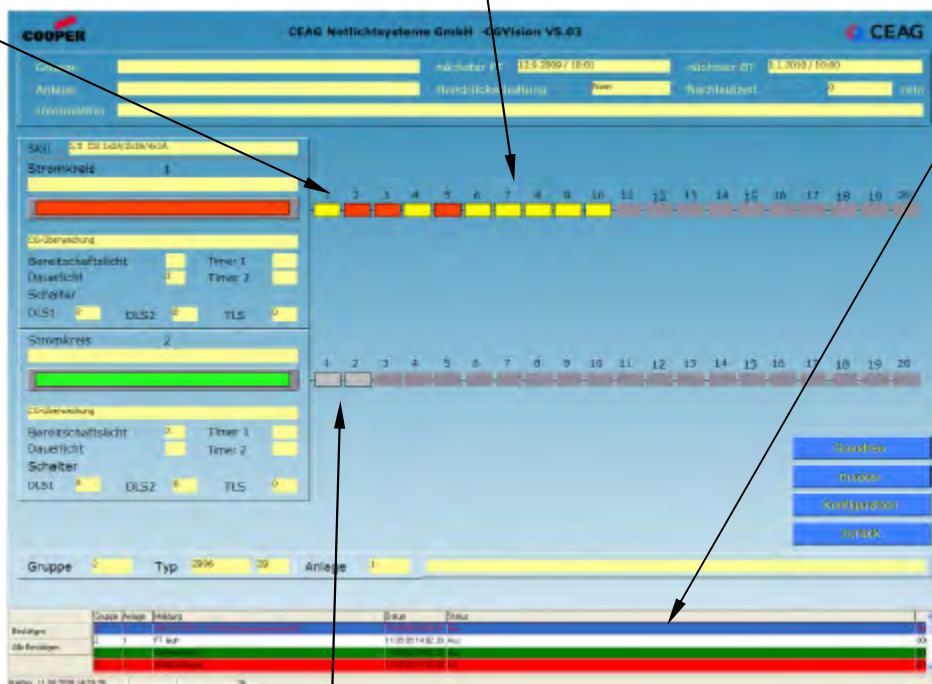
Circuit change-over module No. 1/5 and No. 1/6 O.K. (green)

Luminaire fault (red)

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)



Circuit No.2: OK and in standby light - luminaires displayed grey

Notices:

Notices:



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-Technical alterations without notice!-



Section 7

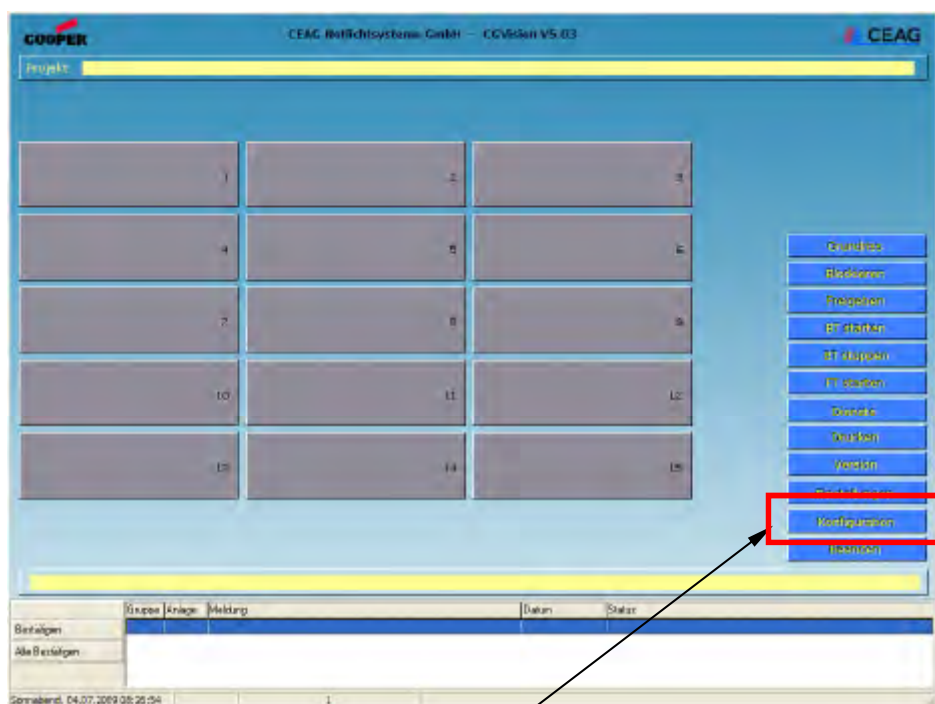
Device family GVL 24.1

7 Device family GVL 24.1

7.1 Configuring a GVL24.1/CG48 EGA line

7.1.1 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'

The screenshot shows the 'Gruppenkonfiguration' window. The 'Nr.' column lists numbers 01 to 15. The 'Typ' column shows 'GVL24.1/CG48' for Nr. 01. The 'Name' column is empty. Below the table, the 'Nr.' field is set to 1, 'Typ' is 'GVL24.1/CG48', 'Name' is empty, 'GVL/CG48-Strang' is 1, 'Comport' is COM1, 'F3-Modul' is empty, 'NeuronID' is empty, 'TCP/IP Adresse' is 0.0.0.0, and 'Port' is 5000. The 'Überschreiben' button is disabled. The 'CGP-Datenimport' button is enabled. The 'Einfügen' and 'Löschen' buttons are disabled. The status bar at the bottom shows 'DLL-Version: CEAG_CGP.DLL V5.03 12.05.2009'.



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.

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-String:

Typ: Comport:

Name:

FS-Modul:

TOPAP-Adresse:

Port:

DLL-Version:

Specification of the EGA line:
In the 'GVL/CG48 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	GVL24.1/CG48	
02		
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		
13		
14		
15		

Nr.: GVL/CG48-String:

Typ: Comport:

Name:

FS-Modul:

TOPAP-Adresse:

Port:

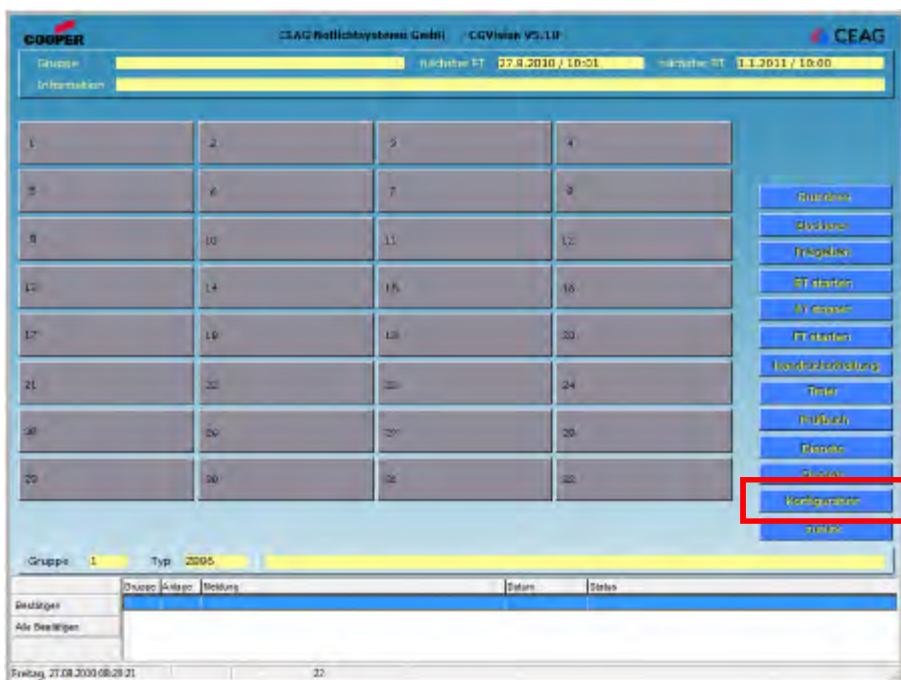
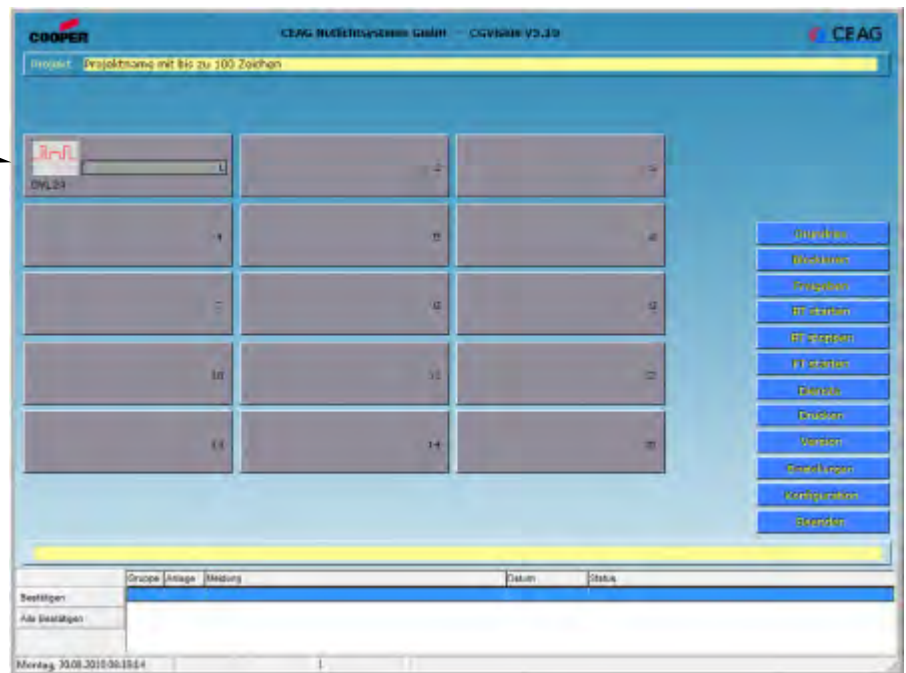
DLL-Version:

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.

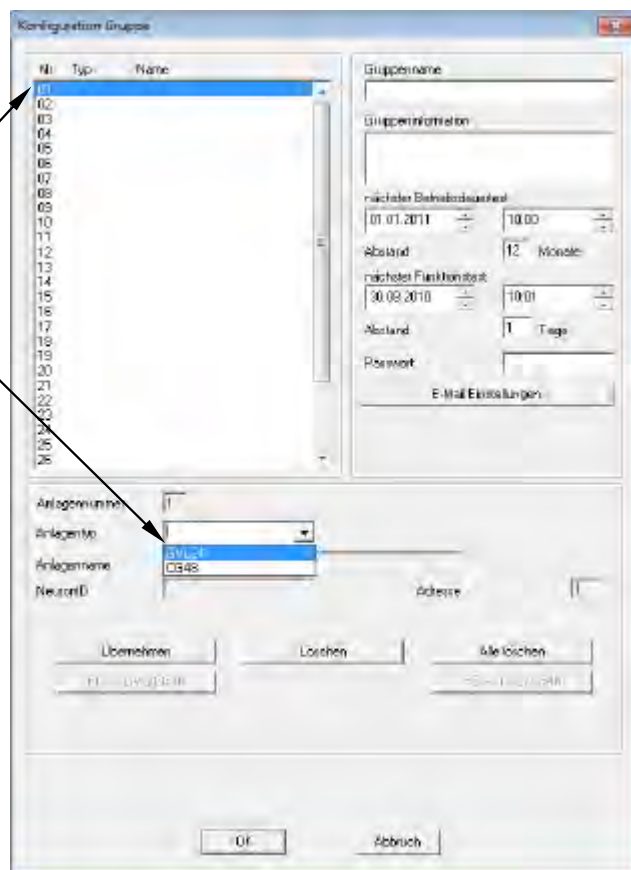
7.1.2 Creating a GVL 24.1 device:

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.

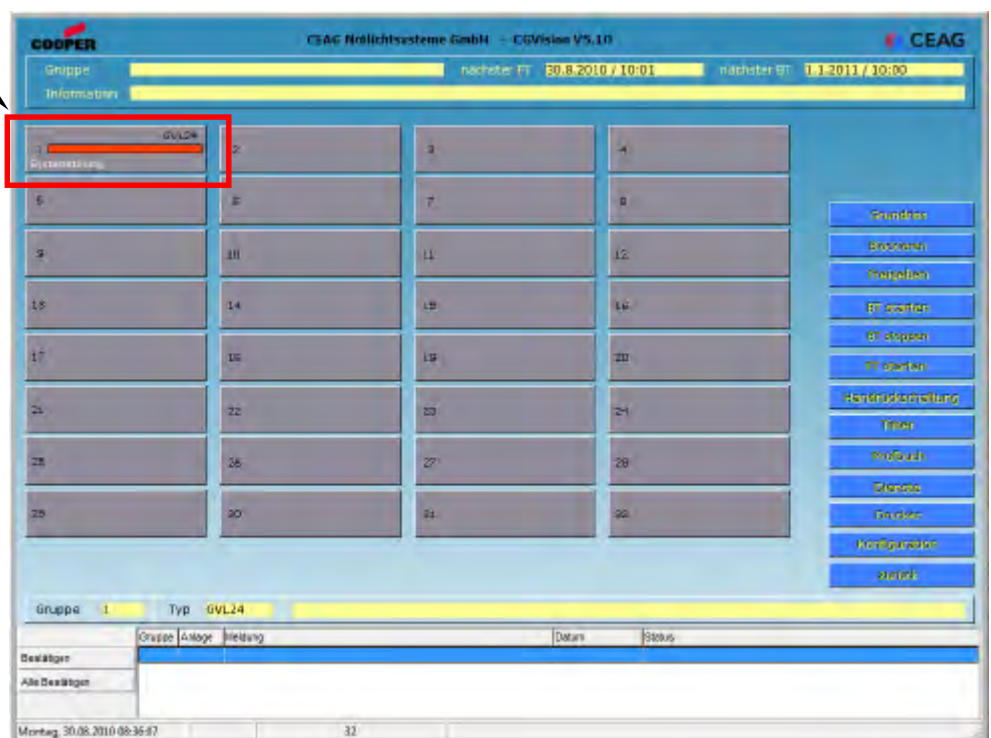


Now GVL 24.1 devices can be added to this group via 'Configuration'.

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.

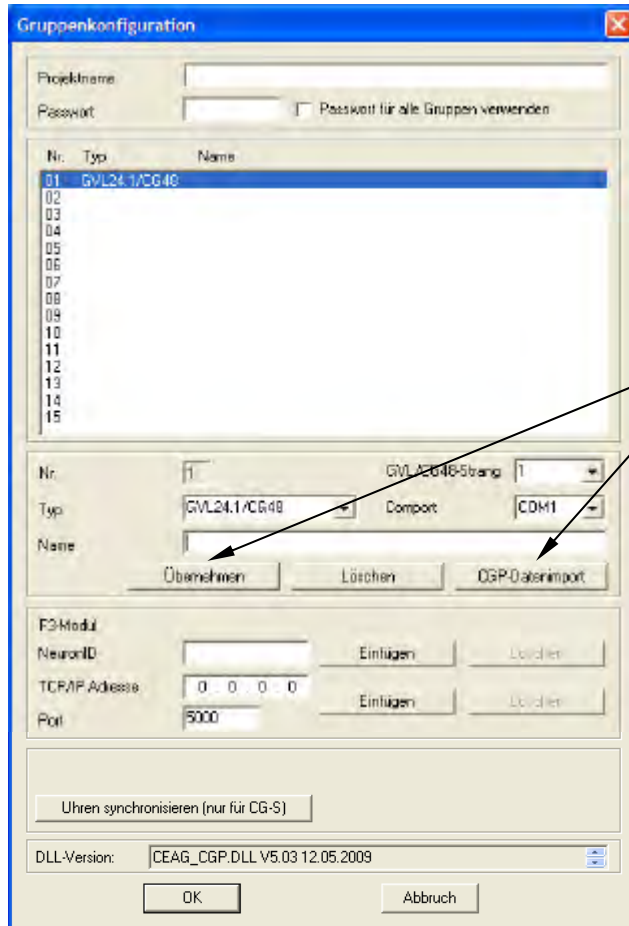


After restarting, all installed GVL 24.1 are shown in the system group screen with their system status. Clicking on the button directly displays the device screen.

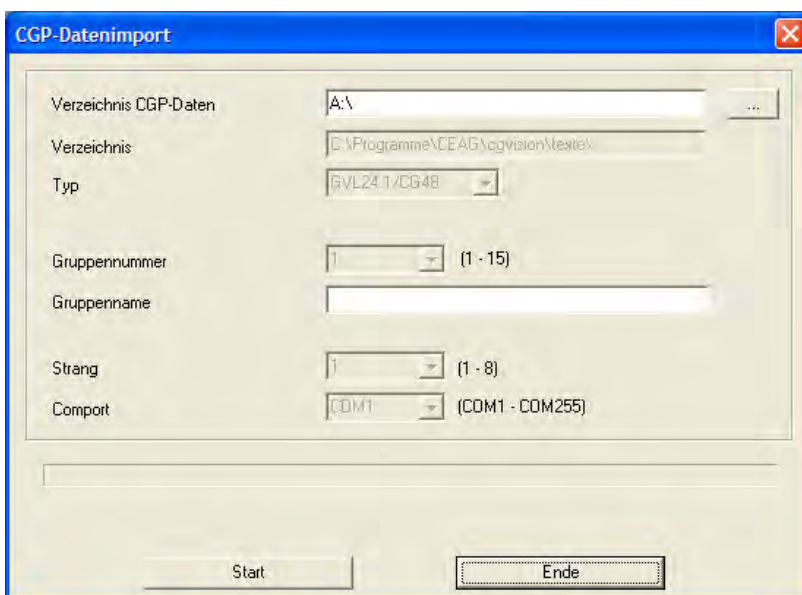


7.2 CGP data import – GVL24.1 / CG48

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.



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 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.

7.3 Device screen – GVL 24.1

7.3.1 Structure of the device screen:

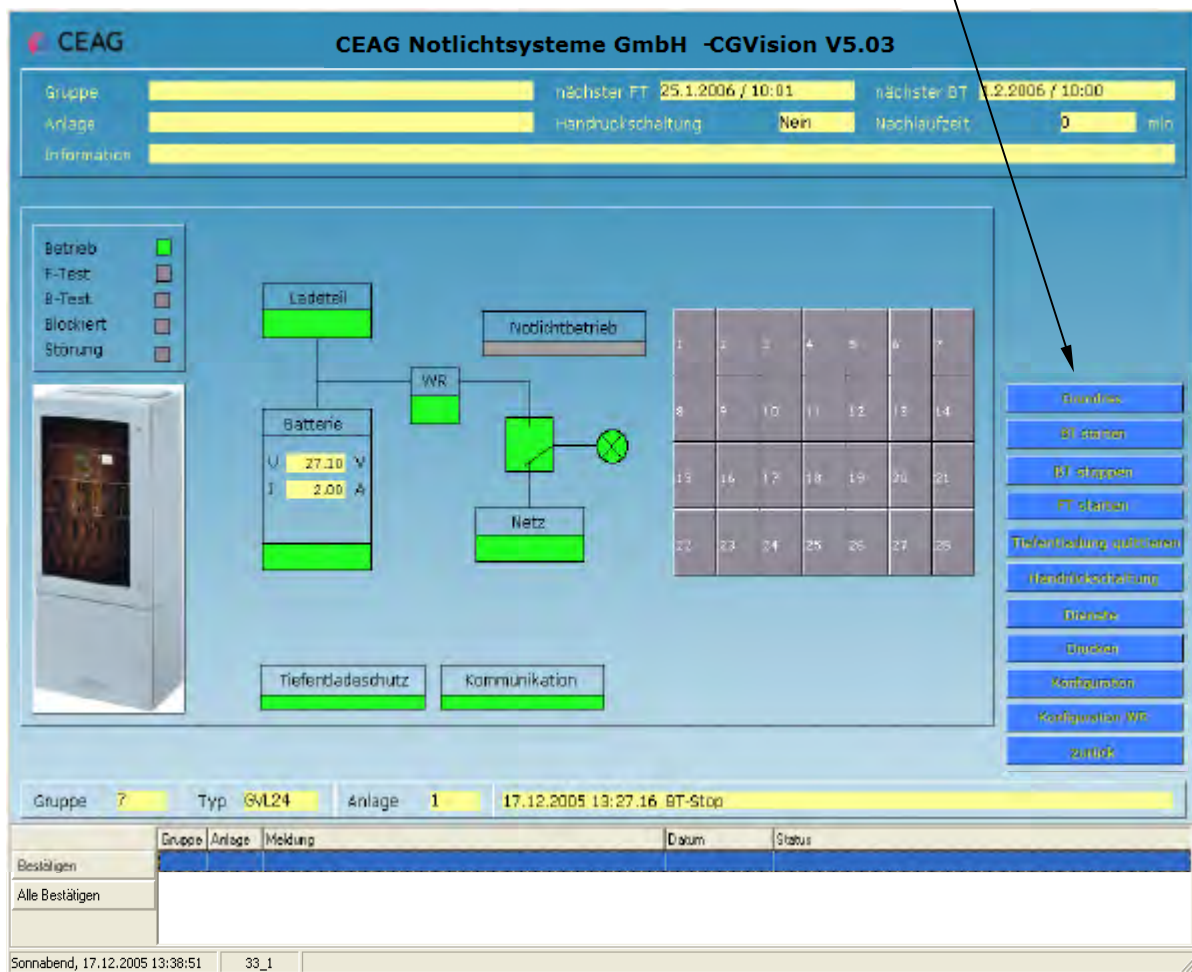
The screenshot shows the CEAG GVL 24.1 device screen. The interface is divided into several sections:

- Header:** CEAG Logo, CEAG Notlichtsysteme GmbH -CGVision V5.03
- Group and System Information:**
 - Gruppe: [Field for supplementary information (up to 100 characters)]
 - Anlage: [Field for supplementary information (up to 100 characters)]
 - Information: [Field for supplementary information (up to 100 characters)]
 - nächster FT: 25.1.2006 / 10:01
 - nächster BT: 1.2.2006 / 10:00
 - Handdruckschaltung: Nein
 - Nachlaufzeit: 0 min
- Device Status and Configuration:**
 - Betrieb: ☒ (Green)
 - F-Test: ☐ (Grey)
 - B-Test: ☐ (Grey)
 - Blockiert: ☐ (Grey)
 - Störung: ☐ (Grey)
 - Diagram showing components: Ladeteil, Batterie (U: 27.10 V, I: 2.00 A), Netz, WVR, Tiefenladeschutz, Kommunikation.
 - Buttons: Grundres, BT starten, BT abbrechen, FT starten, Tiefenladung aktivieren, Handdruckschaltung, Diagnostics, Drucken, Konfiguration, Konfiguration WVR, zurück.
- Alarm List:**
 - Gruppe: 7, Typ: GVL 24, Anlage: 1, 17.12.2005 13:27:16 BT-Stop
 - Buttons: Bestätigen, Alle Bestätigen
 - Status: [Table with columns: Gruppe, Anlage, Meldung, Datum, Status]

Annotations and their corresponding fields:

- Group name and system name (up to 20 characters each): Points to the 'Gruppe' and 'Anlage' fields.
- Displays next function test / continuous operation test: Points to the 'nächster FT' and 'nächster BT' fields.
- Field for supplementary information (up to 100 characters): Points to the 'Information' field.
- Installed converters on max. 4 pcs. 19" racks. Grey field signifies 'not installed': Points to the 'F-Test', 'B-Test', 'Blockiert', and 'Störung' checkboxes.
- Button for commands or configuration settings: Points to the 'Konfiguration' button.
- Direct status messages of device: Points to the 'BT-Stop' message in the alarm list.
- Alarm list with confirmation option, identical to the main group screen: Points to the 'Bestätigen' and 'Alle Bestätigen' buttons.

Button functions for command or configuration settings



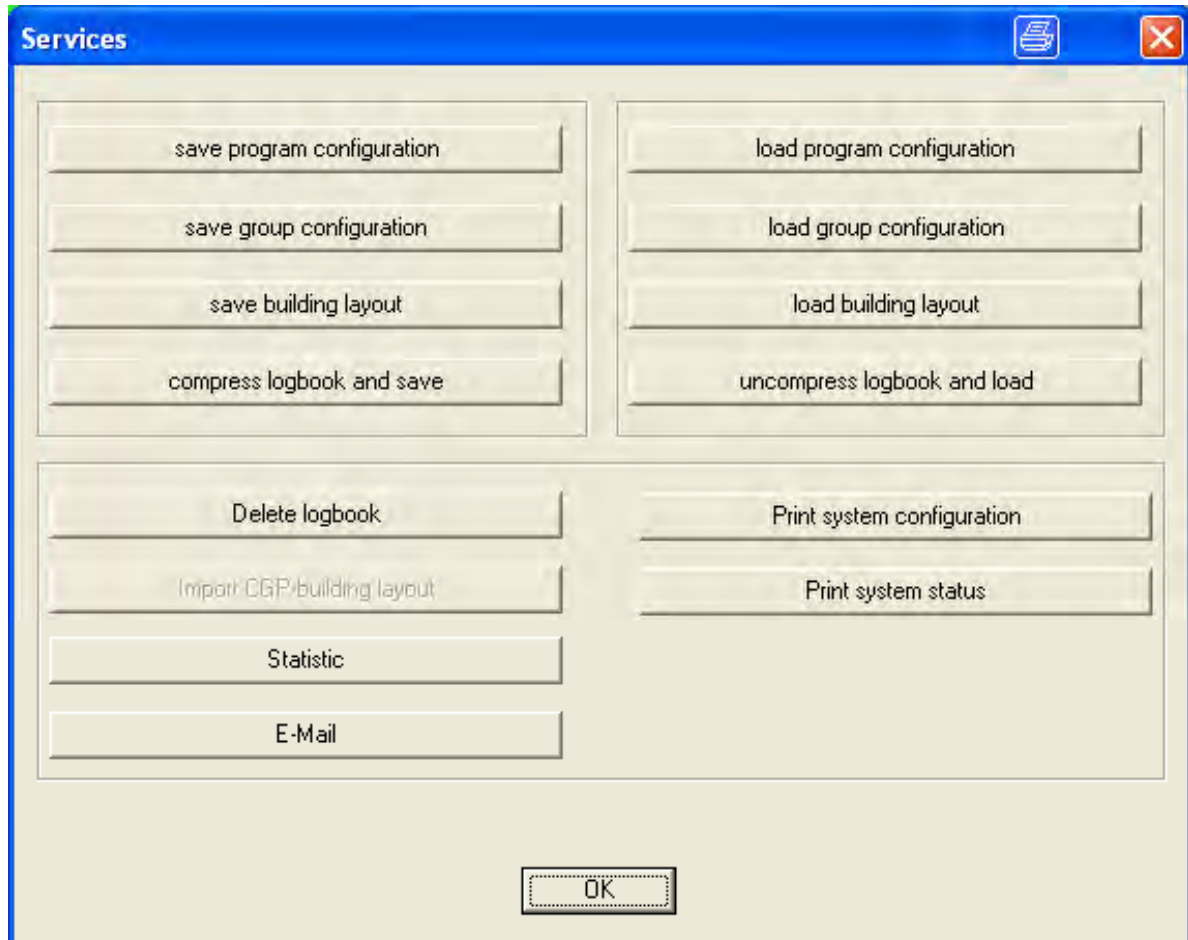
- a). 'Layout'
Calling up of the first layout of the system group (option must be released)
- b). 'Start BT'
A BT test (continuous operation test) is carried out for the device.
- c). 'Stop BT'
BT test is aborted for the device.
- d). 'Start FT'
An FT test (function test) is carried out for the device.
- 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

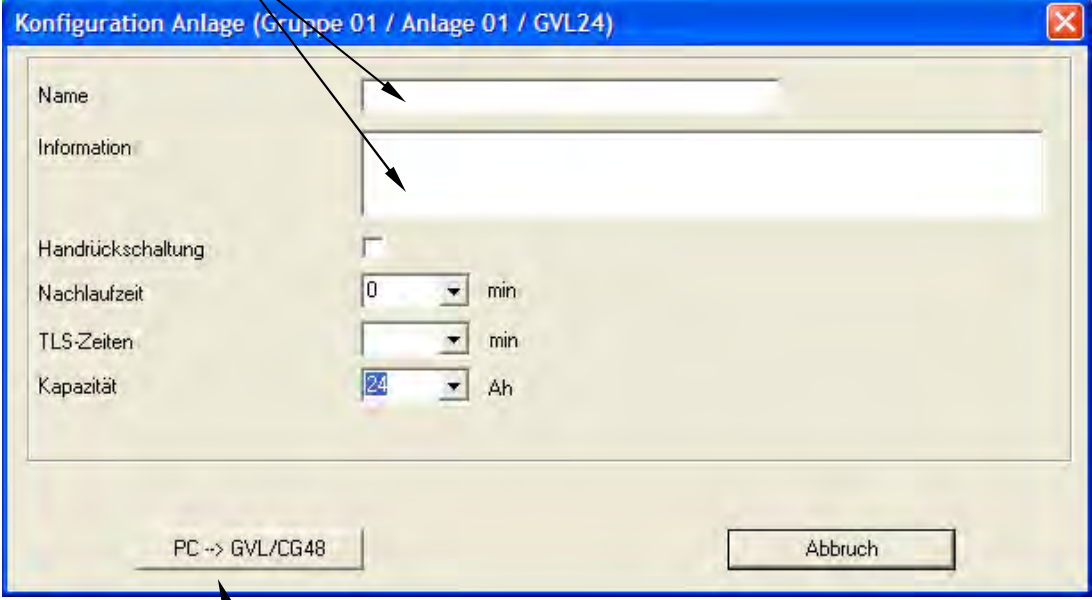


The 'Services' menu is identical with the 'Services' menu in the system group screen, apart from clicking on Status only relates to the system. You can find a detailed description for saving and opening of program configurations/group configurations in Section 2.2 'System group screen', j) 'Services'.

h. 'Configuration of system' (device)

a). General

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

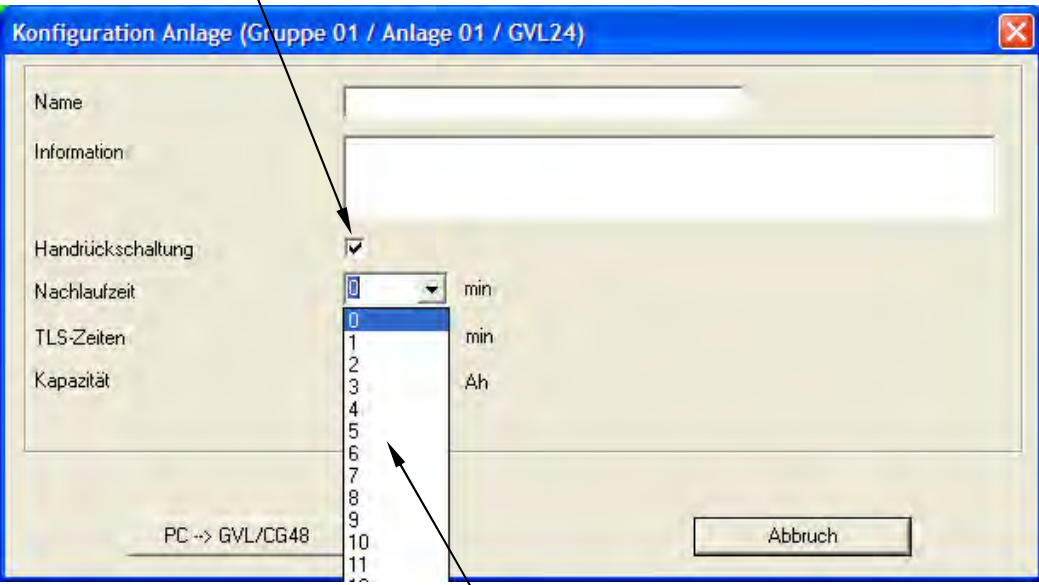


With the button 'PC → GVL/CG48', the configuration only is saved to CGVision. The data, due to technical reasons, are not saved by the GVL.

h. 'Configuration of system' (device)

b). Manual resetting and emergency light delay period

Activate/deactivate manual resetting



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

The screenshot shows the 'Konfiguration Anlage (Gruppe 01 / Anlage 01 / GVL24)' window. The 'TLS-Zeiten' dropdown menu is open, displaying a list of values from 0 to 9. The unit 'Ah' is indicated next to the dropdown. The 'Nachlaufzeit' is set to 0 min. The 'Kapazität' is set to 24 Ah. The 'Abbruch' button is visible at the bottom right.

Parameter	Value	Unit
Name		
Information		
Handrückschaltung	<input checked="" type="checkbox"/>	
Nachlaufzeit	0	min
TLS-Zeiten	0-9	Ah
Kapazität	24	Ah

With installed TLS module, from 1 to 15 minutes can be selected via the 'TLS times' drop-down menu.

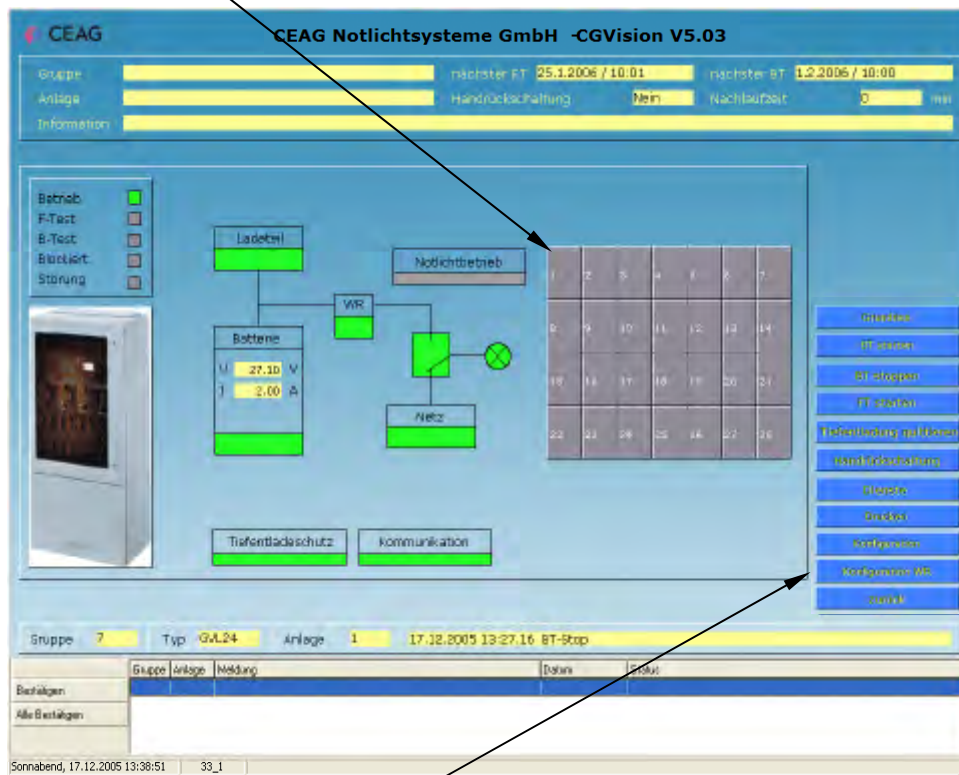
The screenshot shows the 'Konfiguration Anlage (Gruppe 01 / Anlage 01 / GVL24)' window. The 'Kapazität' dropdown menu is open, displaying a list of values from 24 to 110. The unit 'Ah' is indicated next to the dropdown. The 'Nachlaufzeit' is set to 0 min. The 'TLS-Zeiten' is set to 0 min. The 'Abbruch' button is visible at the bottom right.

Parameter	Value	Unit
Name		
Information		
Handrückschaltung	<input checked="" type="checkbox"/>	
Nachlaufzeit	0	min
TLS-Zeiten	0	min
Kapazität	24-110	Ah

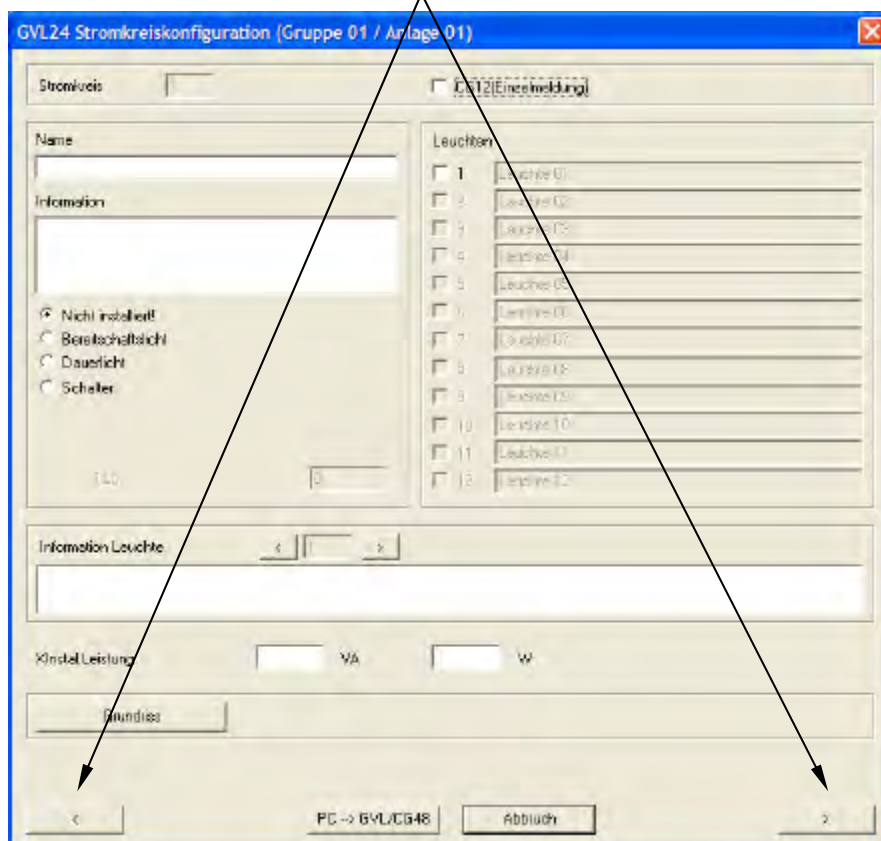
Battery capacity can be set from 24Ah to 110 Ah via the 'Capacity' menu.

7.4 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)

GVL24 Stromkreiskonfiguration (Gruppe 01 / Anlage 01)

Stromkreis: 1

CG12(Einzelmeldung)

Name:

Information:

Leuchten:

- ☐ 1 Leuchte 01
- ☐ 2 Leuchte 02
- ☐ 3 Leuchte 03
- ☐ 4 Leuchte 04
- ☐ 5 Leuchte 05
- ☐ 6 Leuchte 06
- ☐ 7 Leuchte 07
- ☐ 8 Leuchte 08
- ☐ 9 Leuchte 09
- ☐ 10 Leuchte 10
- ☐ 11 Leuchte 11
- ☐ 12 Leuchte 12

☒ Nicht installiert!
☐ Bereitschaftslicht
☐ Dauerlicht
☐ Schalter

TLS: 0

Information Leuchte: < 1 >

XInstal.Leistung: VA W

Grundriss

< PC -> GVL/CG48 Abbruch >

To the layout programming of the circuit (option must be released)

7.5 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.

Stromkreis

☒ CG12(Einzelmeldung)

Name

Information

☐ Nicht installiert!
☐ Bereitschaftslicht
☒ Dauerlicht
☐ Schalter

TLS 0

Leuchten

<input checked="" type="checkbox"/> 1	SL 22011 CG-S
<input checked="" type="checkbox"/> 2	SL 22011 CG-S
<input checked="" type="checkbox"/> 3	RZ 22011 CG-S PU
<input checked="" type="checkbox"/> 4	SL 22011 CG-S
<input checked="" type="checkbox"/> 5	SL 22011 CG-S
<input checked="" type="checkbox"/> 6	RZ 22011 CG-S PU
<input checked="" type="checkbox"/> 7	RZ 22011 CG-S PU
<input checked="" type="checkbox"/> 8	SL 22011 CG-S
<input checked="" type="checkbox"/> 9	SL 22011 CG-S
<input type="checkbox"/> 10	Leuchte 10
<input type="checkbox"/> 11	Leuchte 11
<input type="checkbox"/> 12	Leuchte 12

Information Leuchte

< 1 >

Achtung: Montagehöhe 5m, Leiter mitnehmen. Letzte Wartung 18.07.2009

XInstal.Leistung VA W

Grundriss

< PC -> GVL/CG48 Abbruch >

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.

7.6 Circuit screen

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

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

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)

COOPER **CEAG Notlichtsysteme GmbH - CGVision V5.03** **CEAG**

Gruppe: nächster FT: 12.9.2009 / 10:01 nächster BT: 17.2010 / 10:00
 Anlage: Handruckschaltung: Nachlaufzeit: min
 Stromkreis: BL: DL: ☒ DLS1: DLS2: TLS:
 Information:

Stromkreis:

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	Nicht installiert
11	Nicht installiert
12	Nicht installiert

Hinweis

Information Leuchte 1:
Achtung: Montagehöhe 5m, Leiter mitnehmen. Letzte Wartung 18.07.2009

OK

Grundriss
Drucken
Konfiguration
zurück

Gruppe: Typ: Anlage:

	Gruppe	Anlage	Meldung	Datum	Status
Bestätigen					
Alle Testdaten					

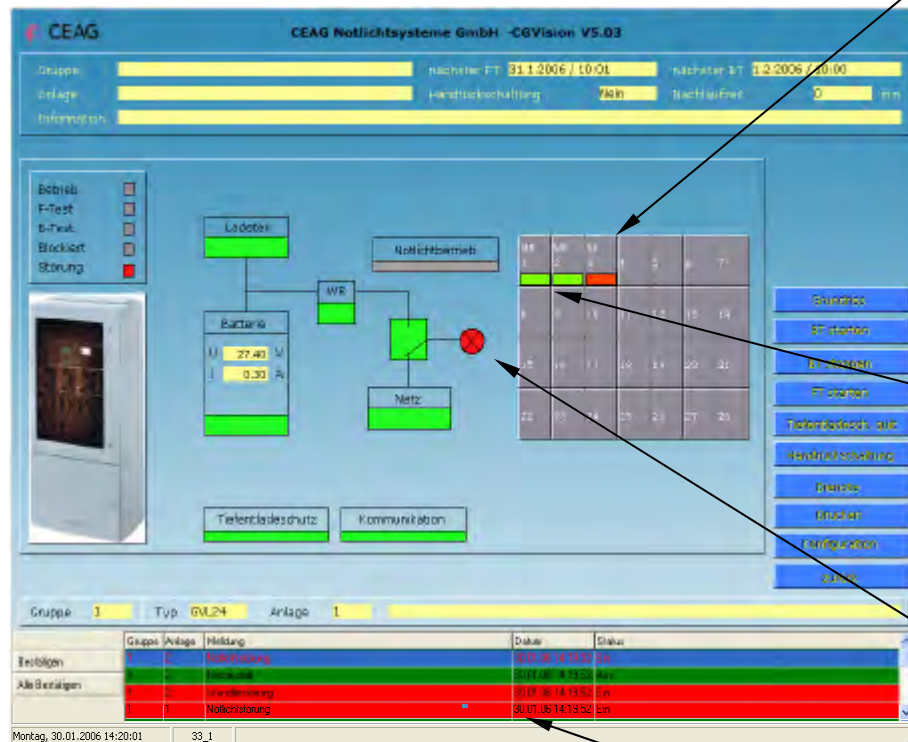
Freitag, 11.09.2009 15:54:12 35

7.7 General display options

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

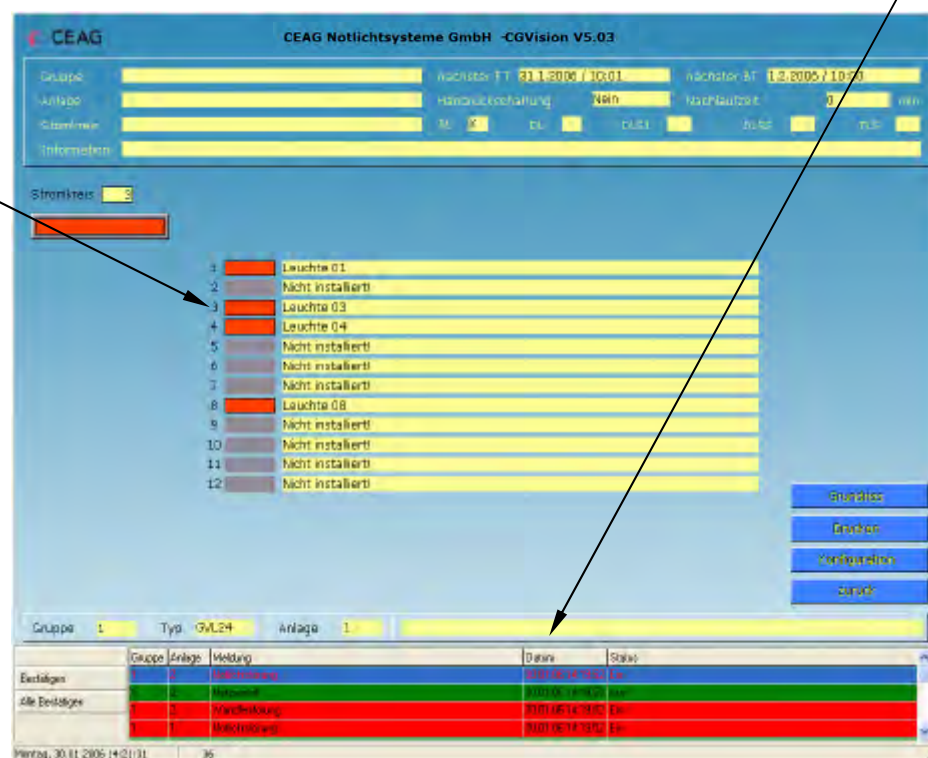
- Green signifies 'OK'
- Red signifies 'fault' in the affected area
- Yellow signifies 'switched on', e.g. circuit is switched on.
- Grey signifies 'switched off', e.g. luminaire is switched off 'standby light'

Examples:



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!



Notices:

Notices:



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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 from V5.10

400 71 347 387(E)



Section 8

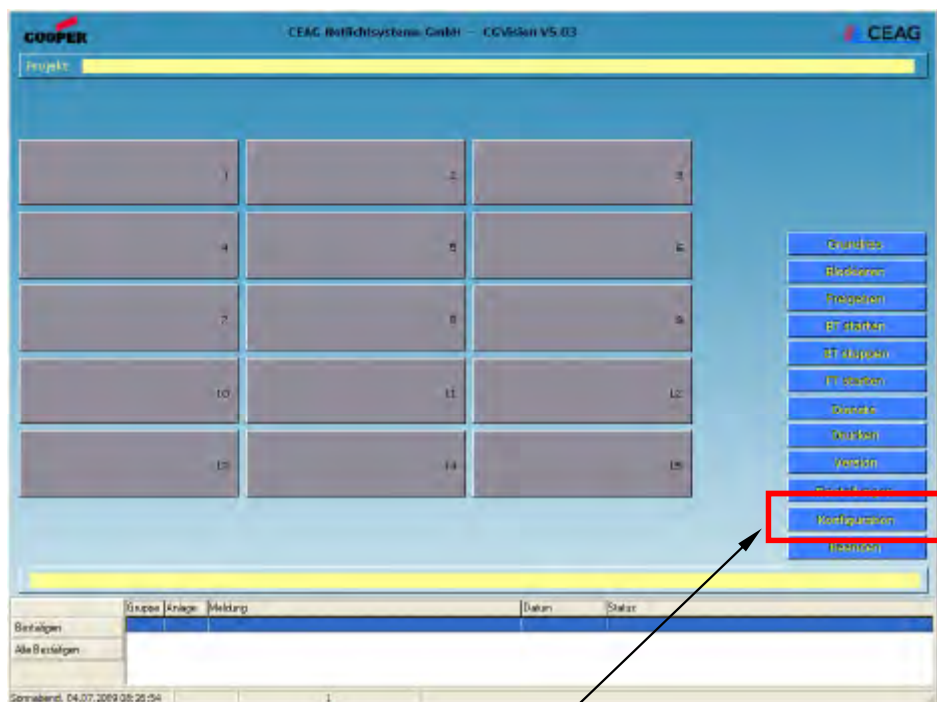
Device family CG48

8 Device family CG48

8.1 Configuring a CG48/GVL24.1 EGA line

8.1.1 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)

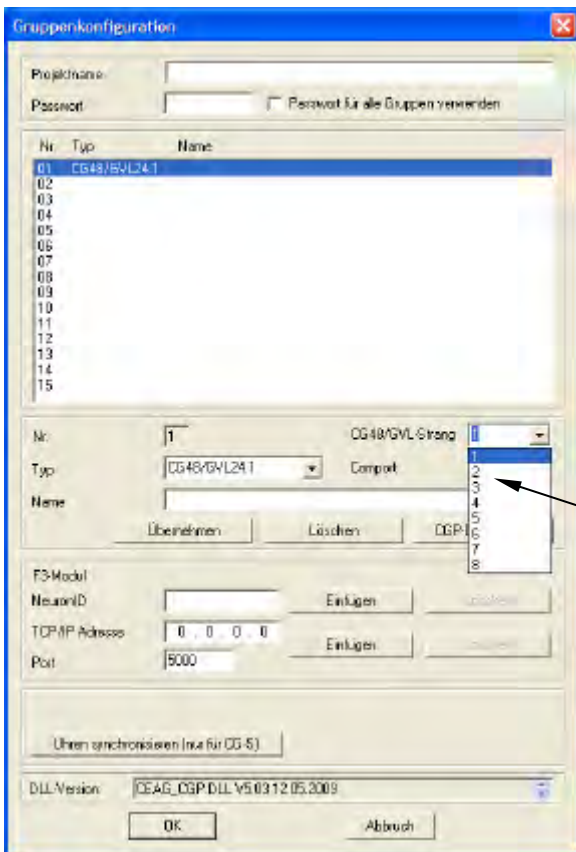
b) In the 'Type' drop-down menu the system type 'CG48/GVL24.1' can be selected and a system group name can be assigned

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'

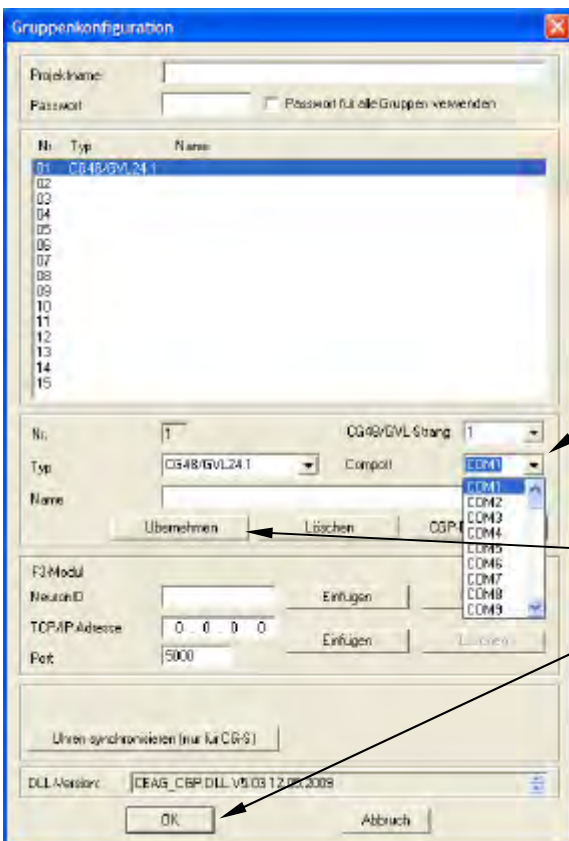


Note: It is possible to randomly combine CG48 and GVL24.1 group battery systems in the same line. Because in the main group screen only limited characters are available for the system types, when selecting the group either CG48/GVL24.1 or GVL24.1/CG48 must be selected. The system first specified is then 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.



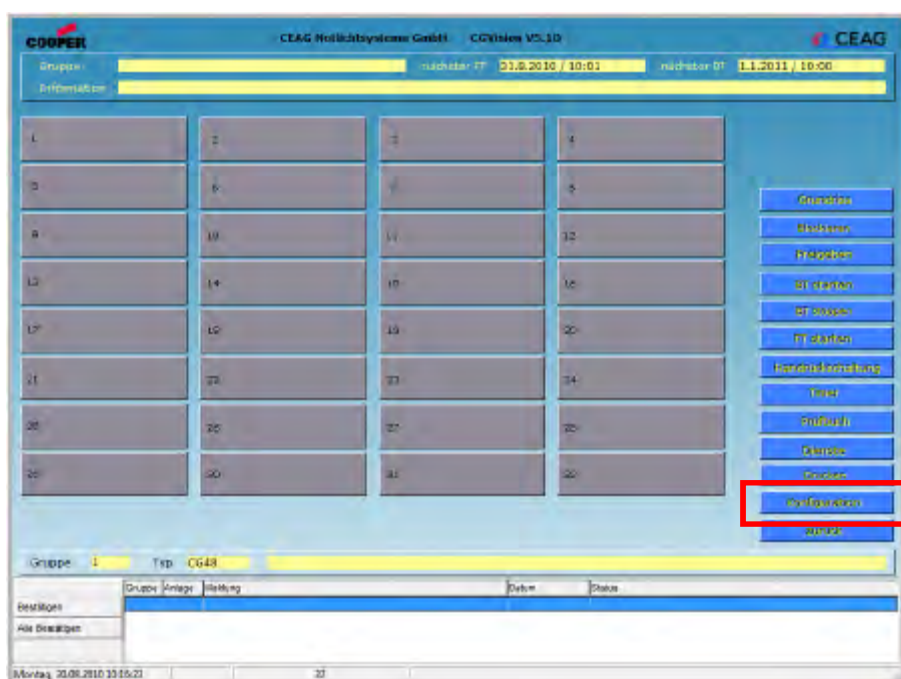
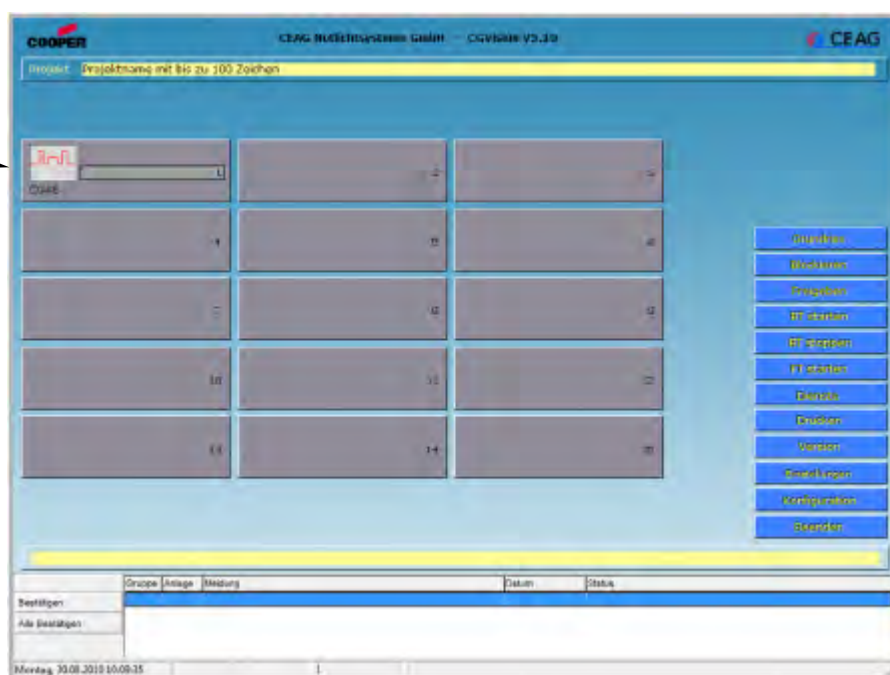
Assigning the COM port:

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.

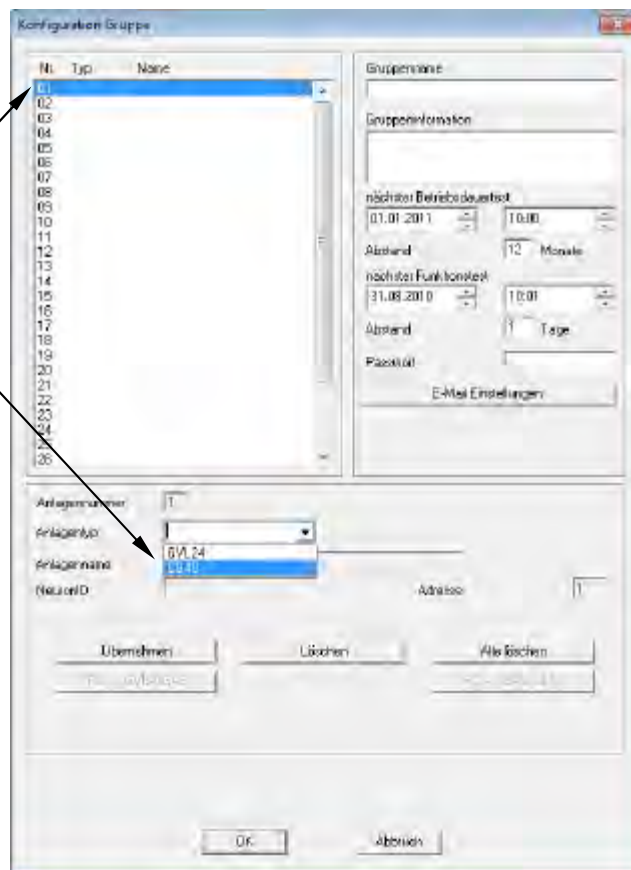
8.1.2 Creating a CG48 device:

After restarting, the CG48 device group is displayed in the main group screen. If the CG48 device group is clicked on the system group screen is then displayed.

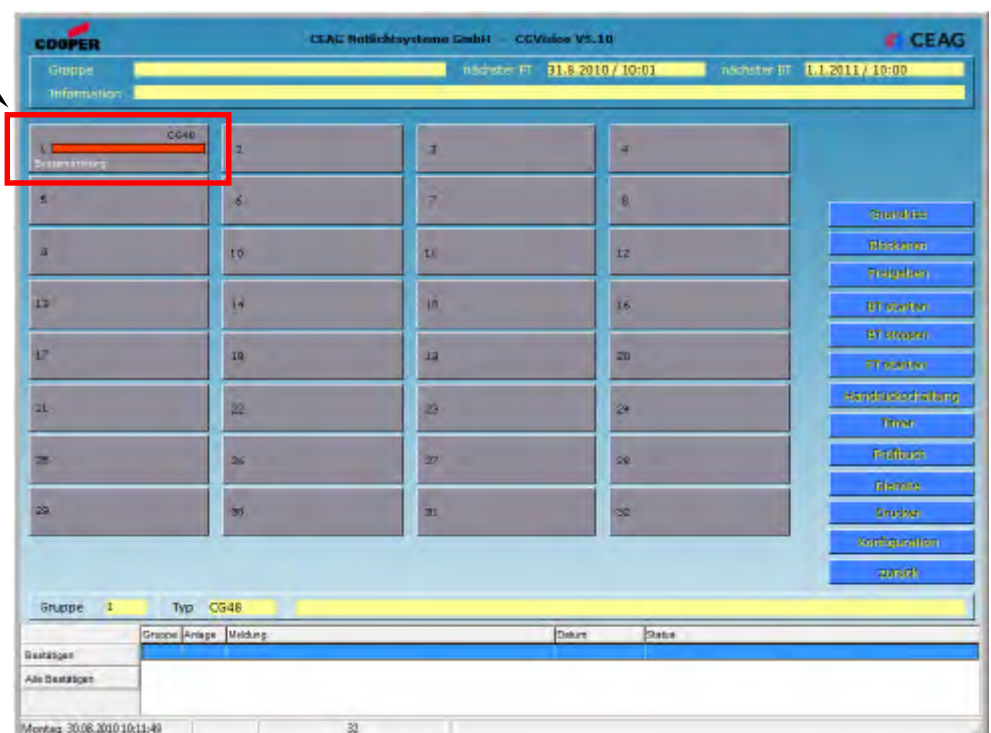


Now CG48 devices can be added to this group via 'Configuration'.

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.

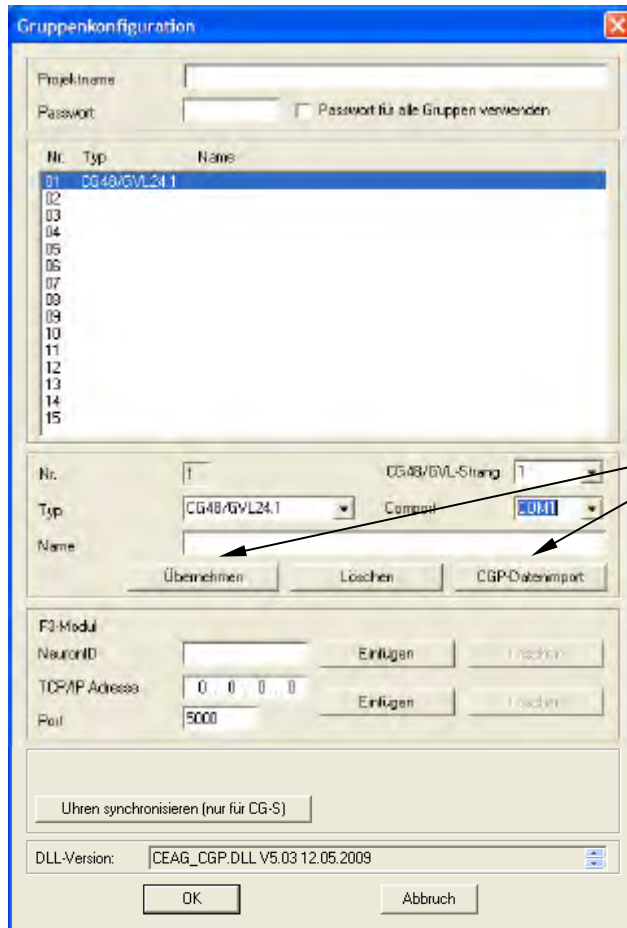


After restarting, all installed CG48 are shown in the main group screen with their system status. Clicking on the button directly displays the device screen.

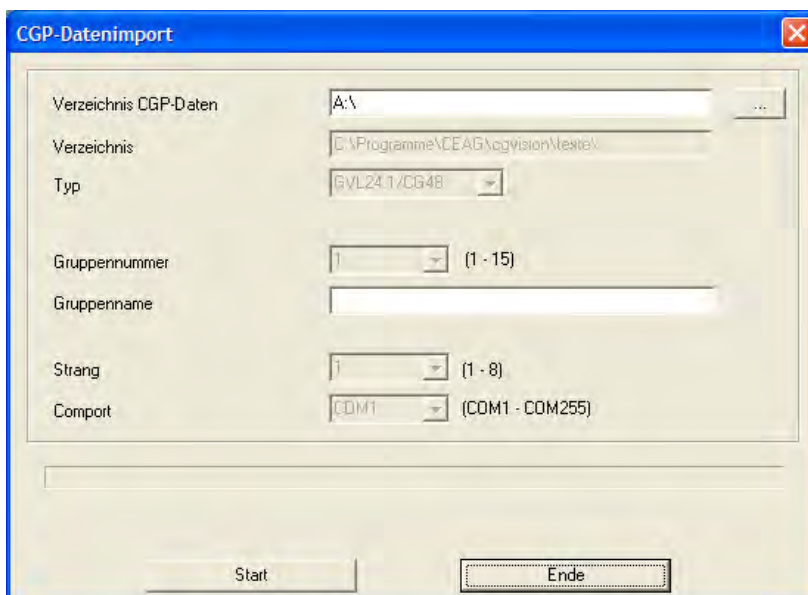


8.2 CGP data import – CG48 / GVL 24.1

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.



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 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.

8.3 Device screen – CG48

8.3.1 Structure of the device screen:

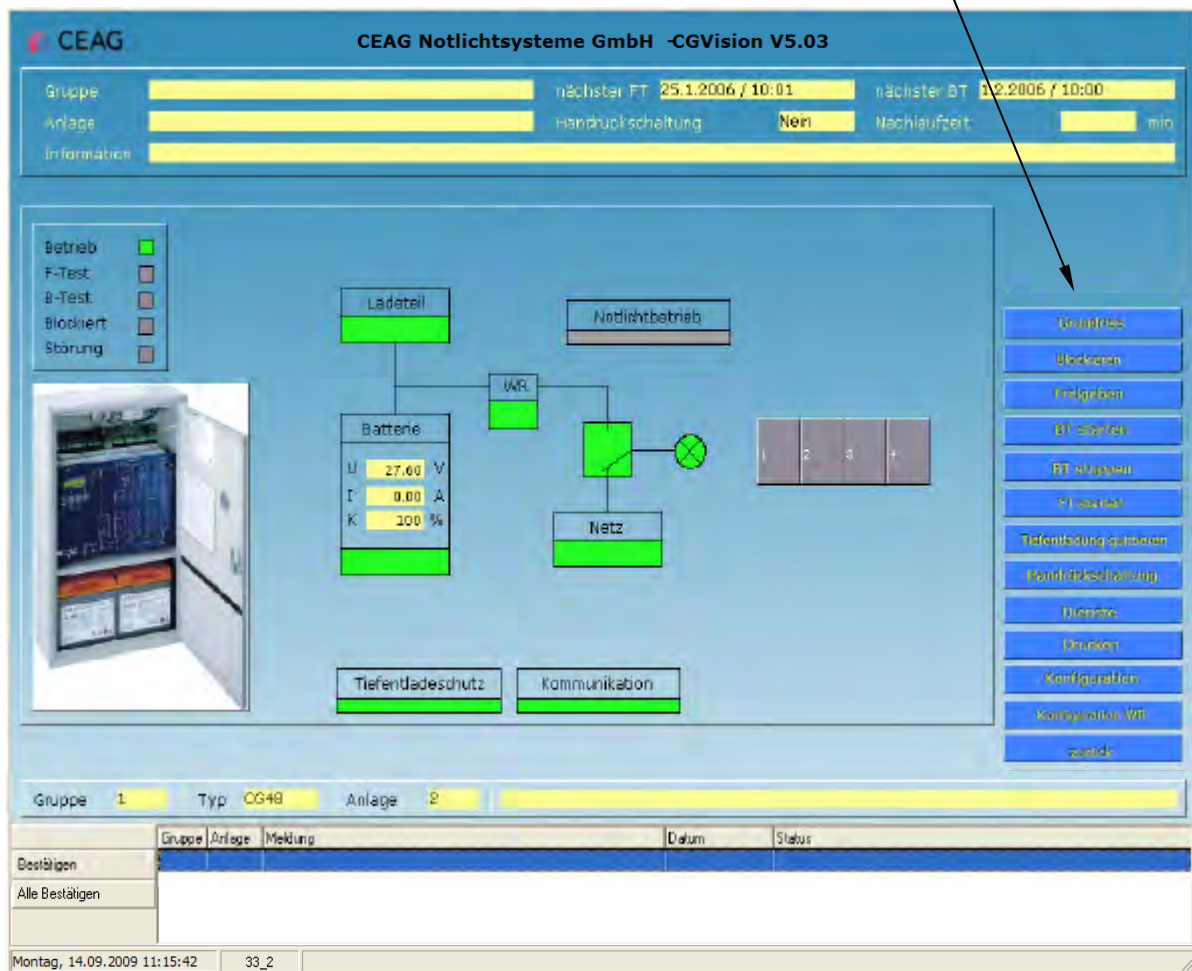
The screenshot displays the CEAG device screen (CG48) with the following components and annotations:

- Header:** CEAG Logo, CEAG Notlichtsysteme GmbH -CGVision V5.03
- Top Fields:**
 - Gruppe: [Yellow field]
 - Anlage: [Yellow field]
 - Information: [Yellow field]
 - nächster FT: 25.1.2006 / 10:01
 - nächster BT: 1.2.2006 / 10:00
 - Handdruckschaltung: Nein
 - Nachlaufzeit: [Yellow field] min
- Left Panel:**
 - Buttons: Betrieb (green), F-Test (red), B-Test (red), blockiert (red), Störung (red)
 - Image of the device unit.
- Central Diagram:**
 - Diagram showing components: Ladeteil, Batterie (U: 27.60 V, I: 0.00 A, K: 100 %), Netz, WP, and others.
- Right Panel:**
 - Buttons: Grundriss, Blockieren, Freigeben, BT starten, BT stoppen, FT starten, Identifizierung anfordern, Handdruckschaltung, Dienste, Drucken, Konfiguration, Konfiguration WP, zurück.
- Bottom Section:**
 - Gruppe: 1, Typ: CG48, Anlage: 2
 - Table with columns: Gruppe, Anlage, Meldung, Datum, Status.
 - Buttons: Bestätigen, Alle Bestätigen.
 - Timestamp: Montag, 14.09.2009 11:15:42, 33_2

Annotations:

- Group name and system name (up to 20 characters each) - points to the top header area.
- 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.
- 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. - points to the bottom table area.
- Direct status messages of device - points to the 'Meldung' column in the bottom table.
- Button for commands or configuration settings - points to the 'Konfiguration' button on the right panel.
- Alarm list with confirmation option, identical to the main group screen - points to the 'Bestätigen' and 'Alle Bestätigen' buttons.

Button functions for command or configuration settings



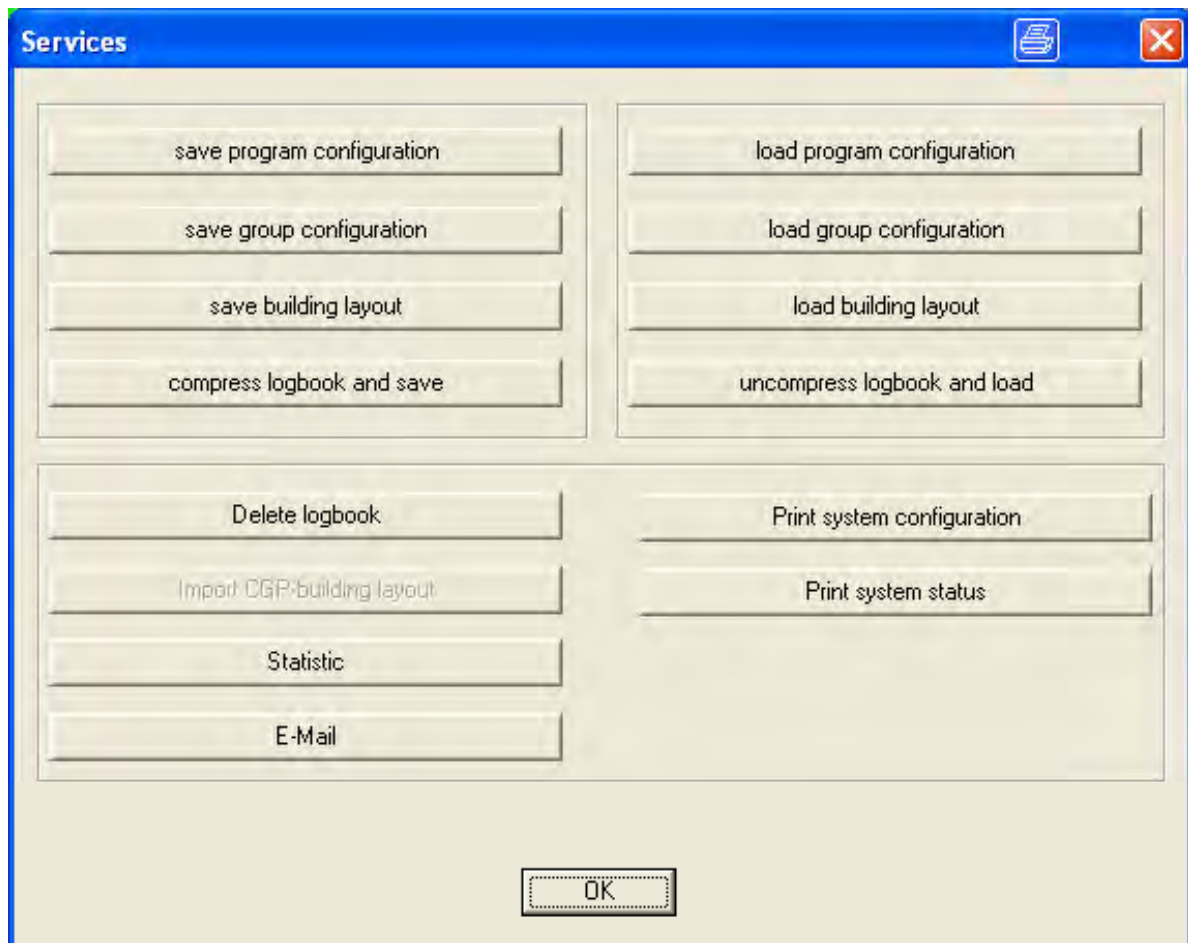
- a). 'Layout'
Calling up of the first layout of the system group (option must be released)
- b). 'Block'
This blocks the device
- c). 'Release'
The blocked device is released
- d). 'Start BT'
A BT test (continuous operation test) is carried out for the device.
- e). 'Stop BT'
BT test is aborted for 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
- 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) - 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 2.2 "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

Konfiguration Anlage (Gruppe 01 / Anlage 01 / CG48)

Name:

Information:

Handrückschaltung: ☒

Nachlaufzeit: min

TLS-Zeiten: min

Kapazität: Ah

1
2
3
4
5
6
7
8
9

PC -> GVL/CG48 PC <- GVL/CG48 Abbruch

With installed TLS module, a time from 1 to 15 minutes can be selected via the 'TLS times' drop-down menu.

Konfiguration Anlage (Gruppe 01 / Anlage 02 / CG48)

Name:

Information:

Handrückschaltung: ☐

Nachlaufzeit: min

TLS-Zeiten: min

Kapazität: Ah

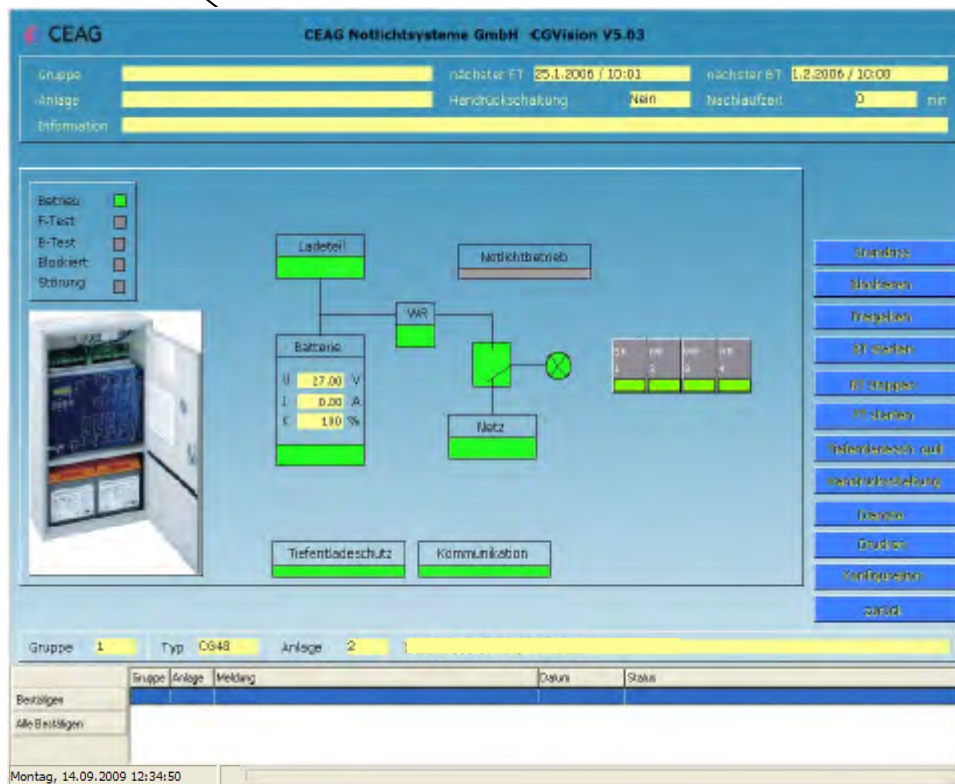
-
24
38
48
65
76
110

PC -> GVL/CG48 PC <- GVL/CG48 Abbruch

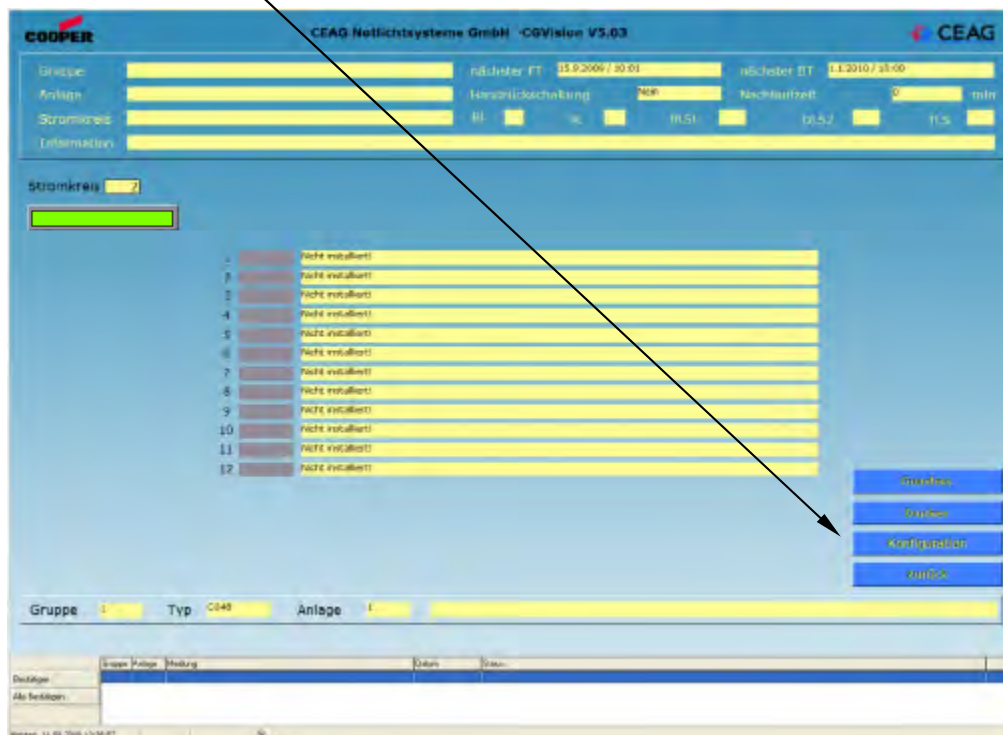
Battery capacity can be set from 24Ah to 110 Ah via the 'Capacity' menu.

8.4 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.



8.4.1 Circuit configuration

Circuit number display

Input of circuit name and supplementary information

With CG single luminaire monitoring CG12 (single message) must be activated.

Circuit programming such as Switching type and DLS/TLS assignment

Adding/removing luminaires via checking of control boxes. After adding luminaires, luminaire texts in plain text, max. 40 characters can be entered

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.

8.5 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).

COOPER CEAG Notlichtsysteme GmbH CGVision V5.03 CEAG

Gruppe: nächster FT: 15.9.2009 / 10:01 nächster BT: 1.1.2010 / 10:00

Anlage: Handruckschaltung: Nachlaufzeit: min

Stromkreis: DL: DL1: DL2: TLS:

Information:

Stromkreis: 1

1 SL 22011 CG-S

2 SL 22011 CG-S

3 R2 22011 CG-S PU

4 SL 22011 CG-S

5 SL 22011 CG-S

6 R2 220

7 R2 220

8 SL 220

9 SL 220

10 nächste

11 nächste installiert!

12 nächste installiert!

Information Leuchte 1:
Achtung: Montagehöhe 5m. Leiter mitnehmen. Letzte Wartung:
18.07.2009

Grundriss
Drucken
Konfiguration
zurück

Gruppe: 1 Typ: CG48 Anlage: 1

	Gruppe	Anlage	Merkung	Datum	Status
Bestellen					
Alle Bestellen					

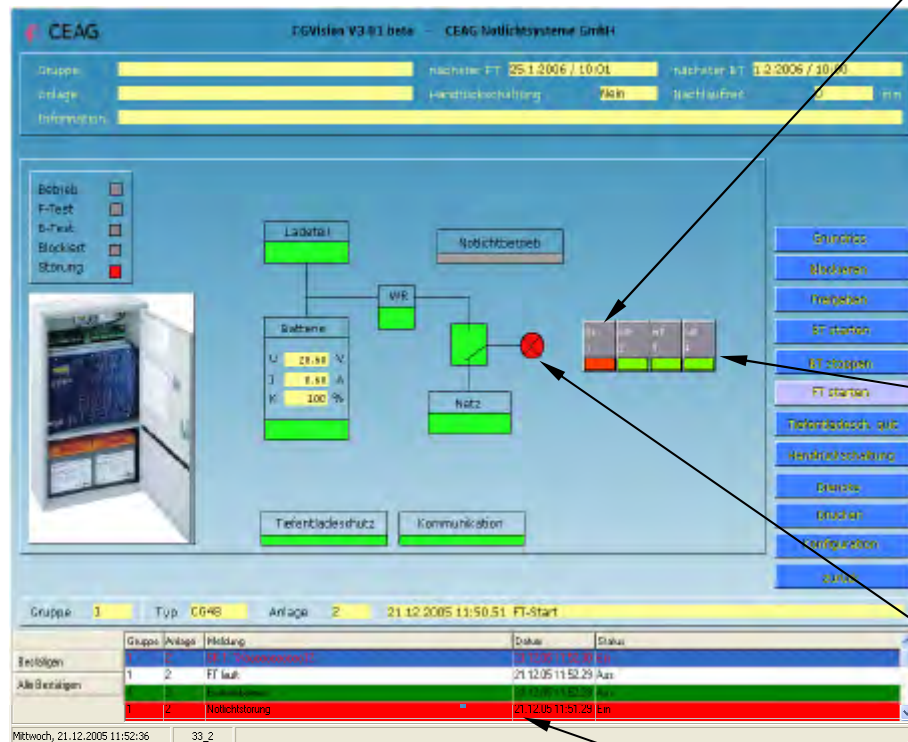
Montag, 14.09.2009 12:59:38 30

8.6 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'

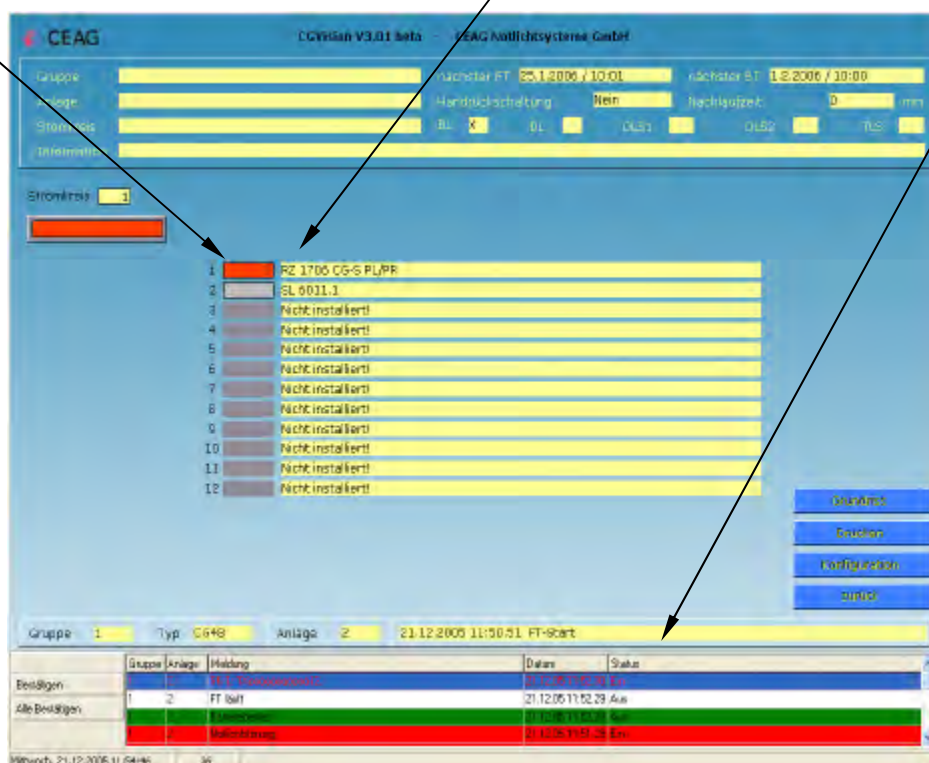
Examples:



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)



Notices:

Notices:

Notices:



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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 from V5.10

400 71 347 387 (E)



Section 9

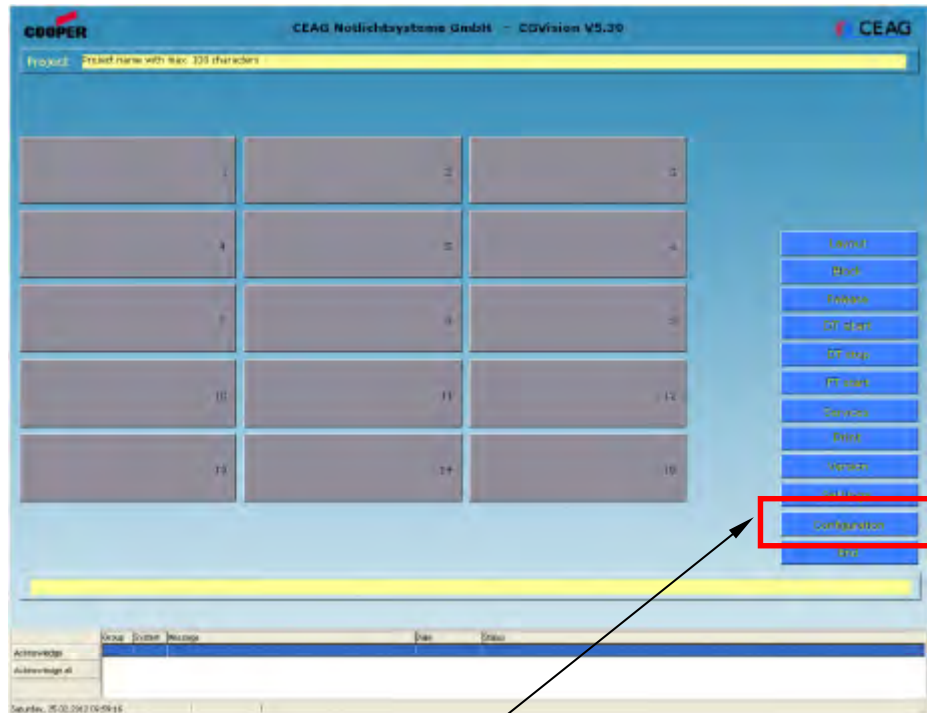
Device family CGLine

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 subdivided into various groups.



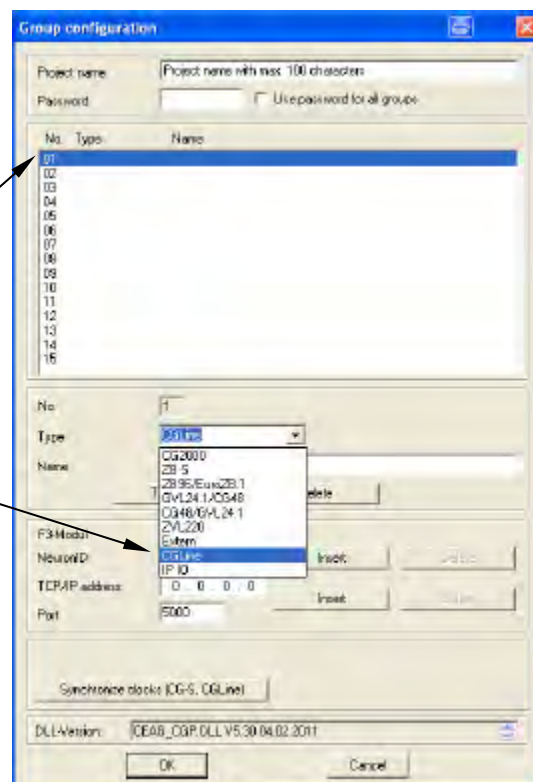
Via the 'Configuration' menu a new device family, e.g. CGLine, can be created

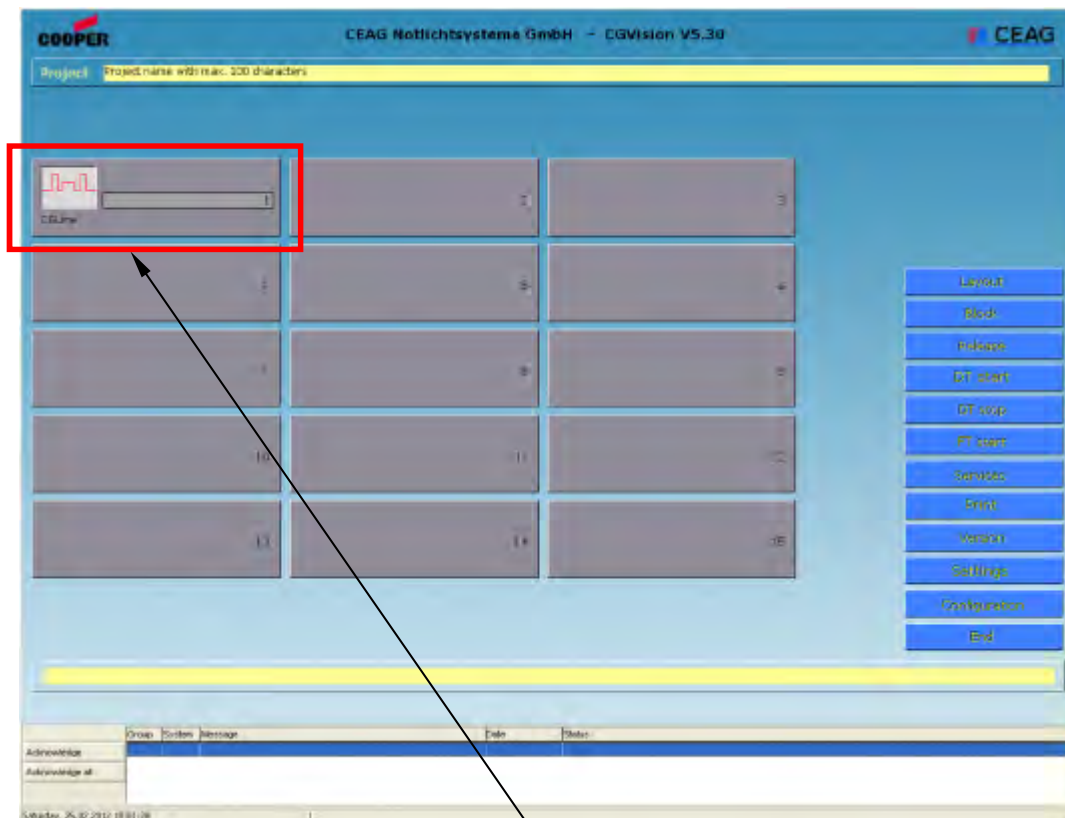
The group configuration menu then appears:

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

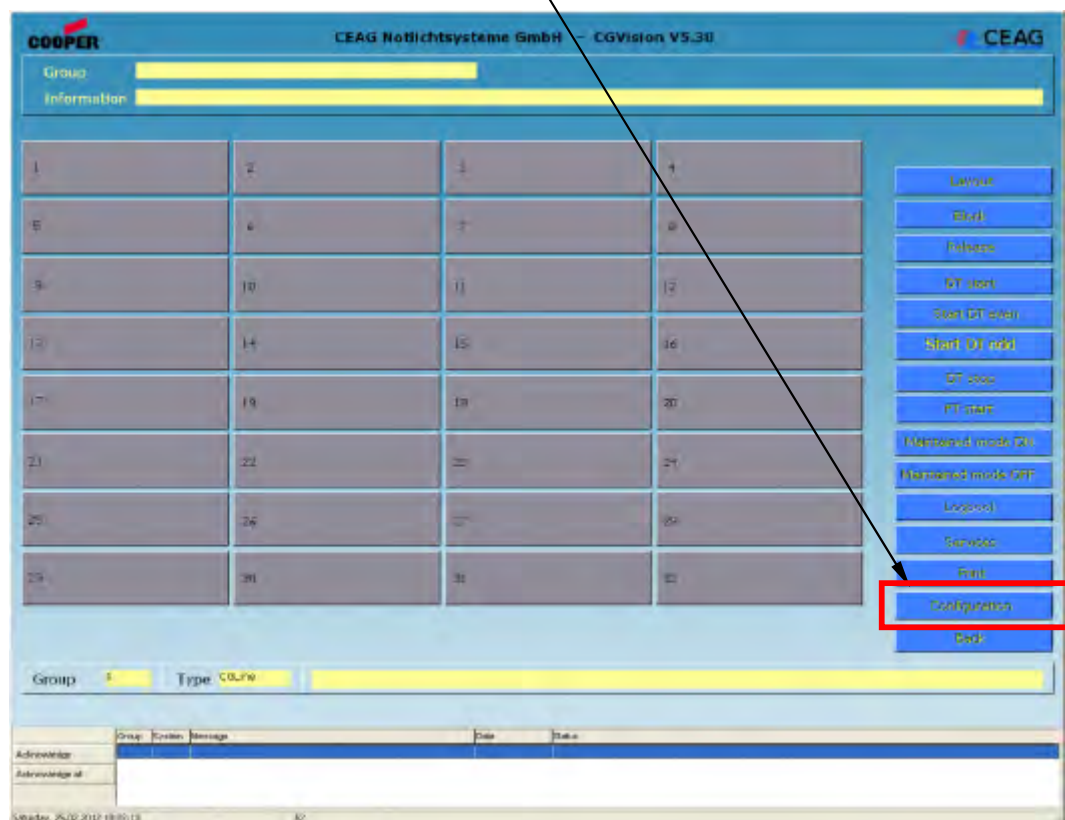
c) Confirm with 'Accept', define further groups or exit with 'OK'





The system group has now been added. If this group is clicked on, the device group screen is displayed.

Up to 8 CGLine interfaces can now be created via the 'Configuration' menu



The system configuration menu then appears:

- In the device selection window a system can be defined by selecting the corresponding device address (marked blue).
- In the 'System type' drop-down menu 'CGLine' must be selected.
- 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 CGLine PC interface with the following components and annotations:

- Group name and system name (up to 20 characters each):** Points to the 'Group' and 'System' input fields at the top.
- Field for supplementary information (up to 100 characters):** Points to the 'Information' input field below the system name.
- Display of next automatic FT / BT:** Points to the 'Next FT' and 'Next DT' fields, which show dates and times.
- FT = function test, BT = continuous battery operation test:** Points to the 'Next FT' and 'Next DT' fields.
- Direct status messages of device:** Points to the 'Operation', 'FT', 'DT', 'Blocked', and 'Failure' status indicators on the left.
- Buttons for commands or configuration settings:** Points to the 'Layout', 'Block', 'Release', 'DT start', 'Start DT stop', 'Start DT add', 'DT stop', 'FT start', 'Maintained mode ON', 'Maintained mode OFF', 'Services', 'Print', 'Configuration', and 'Back' buttons on the right.
- Installed lines, max. 4 pcs. each with max. 100 CGLine luminaires:** Points to the central area showing a grid of lines (1-4) and their status (Operation, Fault, etc.).
- Alarm list with confirmation option, identical to the main group screen:** Points to the bottom section showing a table with columns for Group, System, Message, Date, and Status.

Legend for installed lines:

- 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'.

9.2.2 Function buttons:

Button functions for command or configuration settings



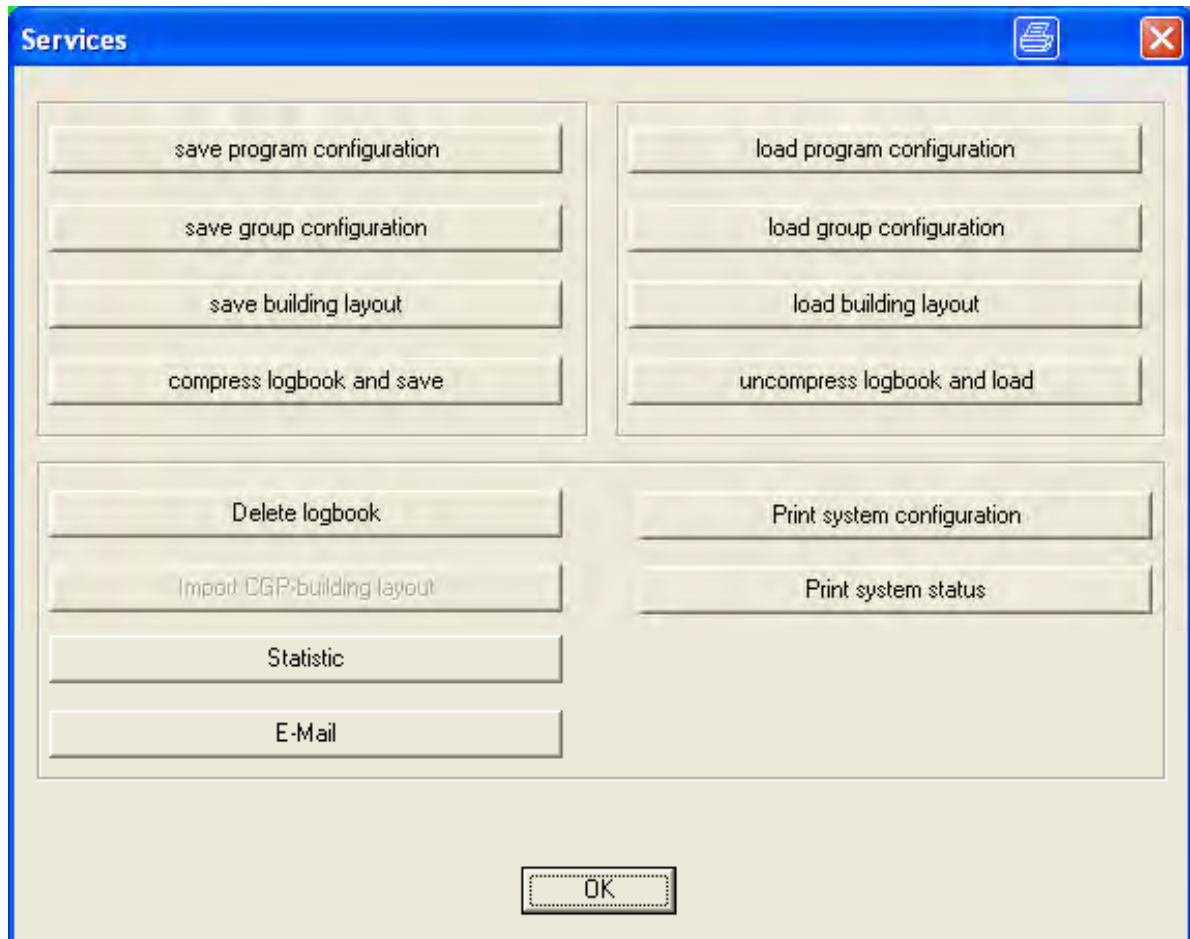
- a). 'Layout'
Calling up of the first available layout for this device
(option must be authorised via a dongle, available separately.)
- b). 'Block'
All luminaires at the CGLine interface are blocked
- c). 'Release'
All luminaires at the CGLine interface are released
- d). 'Start BT'
All luminaires 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.

Configuration

Name

Information

Next battery duration test

Distance Month

Shared DT (24h delay) ☐

Next function test

Distance Days

Relay assignment

- ☐ Battery operation
- ☐ Function test
- ☐ Duration test
- ☒ Communication failure
- ☒ Luminaire failure
- ☒ Charging failure
- ☒ Test failure

Load default value

MAC address

Software version

Z350.d21 03.03.2011

Z358.A 03.12.2008

Z355.e01 14.12.2011

Search all luminaires

Search new luminaires

CEAG_CGLine.DLL V2.30 14.01.2011

PC → CGLine400

PC ← CGLine400

Cancel

9.3 Line screen

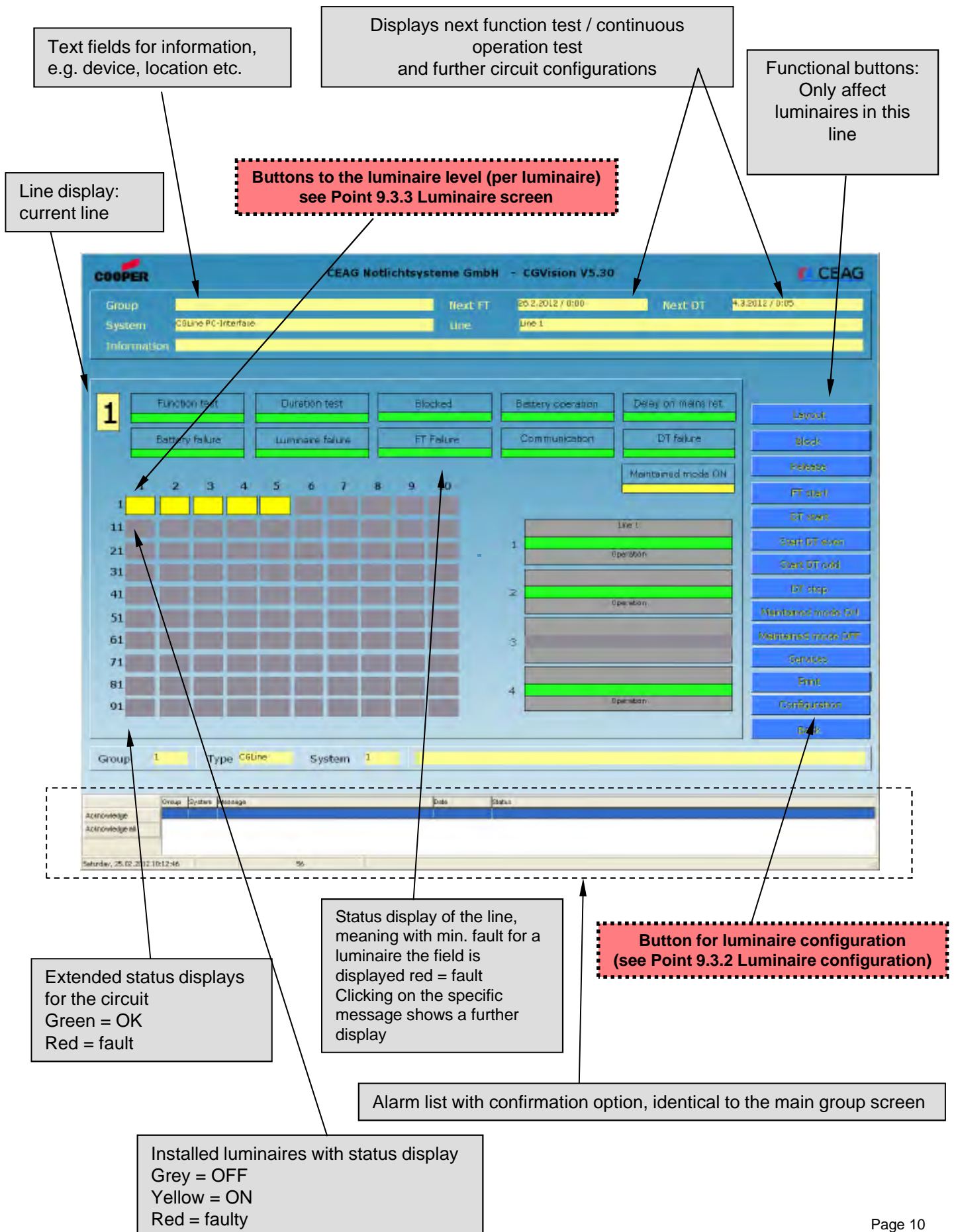
By clicking a button the desired line level opens (line screen)

Installed lines are displayed by colour-highlighted buttons.
By clicking a button the desired line level opens (line screen)



9.3 Line screen

9.3.1 Structure of the line screen



9.3.2 Luminaire configuration

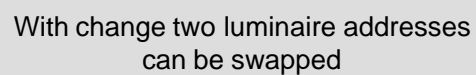
The screenshot shows the 'Luminaire configuration' window. Three callout boxes provide context:

- Luminaires, sorted ascendingly with logical addresses 1 - 100:** Points to the list of luminaires on the left, which includes columns for 'Adr' (address), 'Name', and 'ID'.
- Current line:** Points to the 'Line' dropdown menu, which is currently set to '1'.
- Name (max. 20 characters) and supplementary information (max. 100 characters) for the line:** Points to the 'Name' and 'Information' input fields on the right.

The interface includes a table of luminaires, input fields for address, ID, and name, and buttons for configuration actions like 'Take over', 'Delete', 'Insert', and 'Delete'.

9.3.2.1 Manually luminaire configuration

9.3.2.1 Manually luminaire configuration



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 !

Line 1

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		

Name: Line 1

Information:

Address: ID: Name: any text

Take over Delete

Free IDs: ID: CD35C3

Insert Delete

Address: 6 Change

Cancel ID assignment

Hide free addresses

Search all luminaires Search new luminaires

Update only changed luminaires (fast) Update all luminaires (slow)

Layout delete layout

PC -> CGLine400 PC <- CGLine400 Cancel

to finish this menu, press „PC → CGLine400“
All changes will be transferred 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

Display of next function test and duration test and further informations

Current luminaire is purple marked

Display: Current line / Luminaire

Extended status display of the luminaire
 Green = OK
 Red = Failure
 with left mouseclick, a failure list of the luminaires appears

Alarmlist with all events, which are stored in the logbook

Installed luminaires with status
 Grey = OFF
 Yellow = ON
 Red = Failure

Via configuration the luminaires can be edit, and some tests can be started (see next page)

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CEAG Notlichtsysteme GmbH - CGVision VS.30

Group: [] Next FT: 26.2.2012 / 0:00 Next DT: 4.3.2012 / 0:05

System: CGLine PC-Interface Line: Line 1

Luminaire: Line 1 Luminaire 001 ID: 7FFFD0A Type: EB-LED-CGLine Version: 3 DT-time: 88 min

Information: []

Line: 1 Luminaire: 1

Duration test: [] Luminaire failure: []

Function test: [] Charging failure: []

Blocked: [] Battery failure: []

Battery operation: [] Communication: []

Delay on mains ret.: [] FT Failure: []

Deep discharge: [] DT failure: []

Batterie full: []

Layout: []

Services: []

Print: []

Configuration: []

Exit: []

Group: 1 Type: CGLine System: 1

Acknowledge: []

Acknowledge all: []

Saturday, 25.02.2012 10:42:57

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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Section 10

Monitoring of external devices

10 Monitoring of external devices

10.1 General information

Section 10 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 has 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.

10.2 Monitoring with the I/O interface connection box

10.2.1 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.

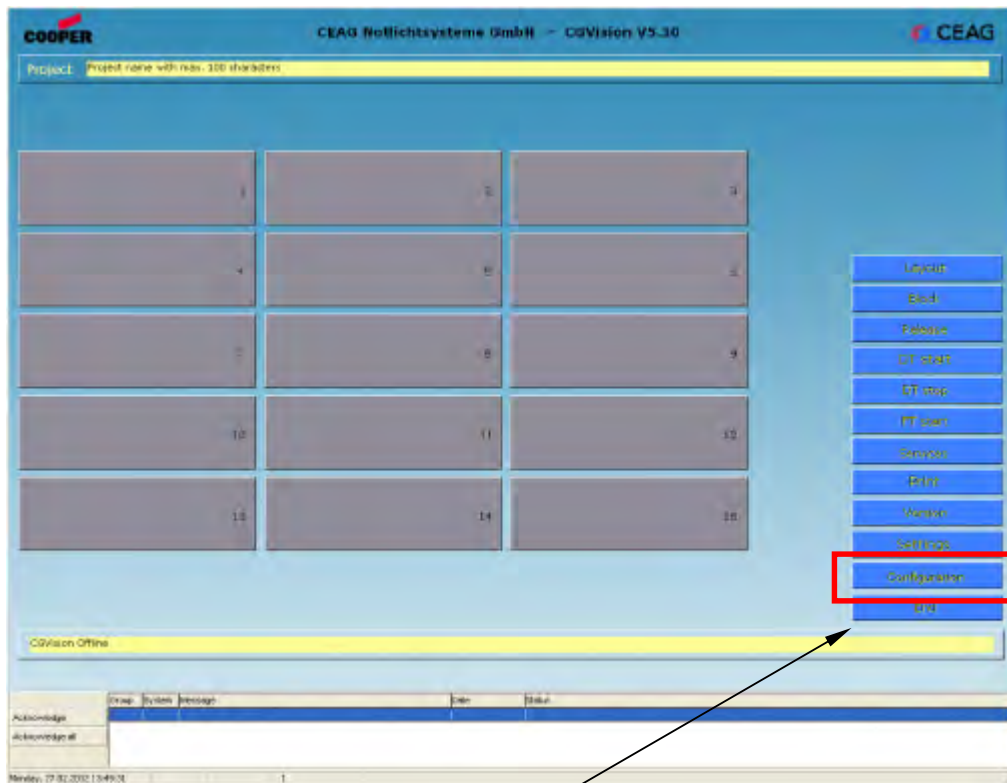
A maximum of 15 groups with up to 32 modules per group can be created in CGVision.

Please consult the included operating instructions for information on electrical connection and module technical data.

Figure: I/O interface connection box



10.2.2 Creating an I/O interface connection box device group



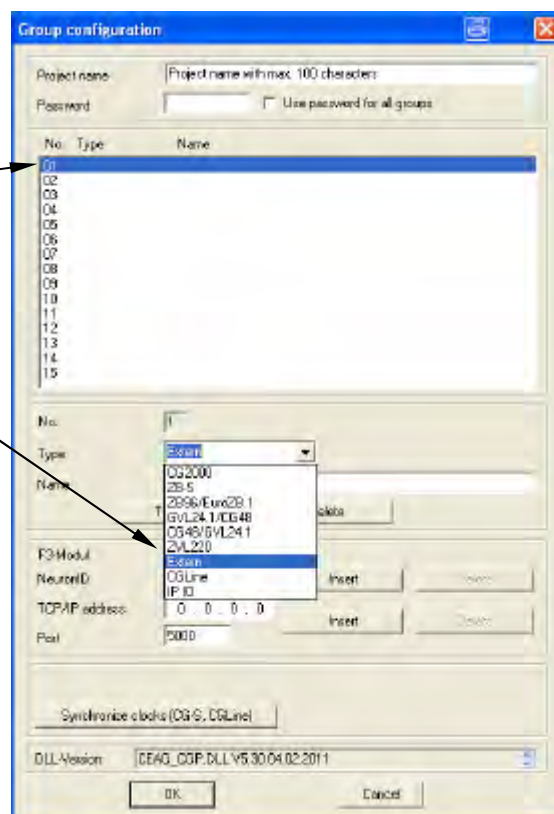
A new device family can be created via the Configuration menu, in this case 'externally'.

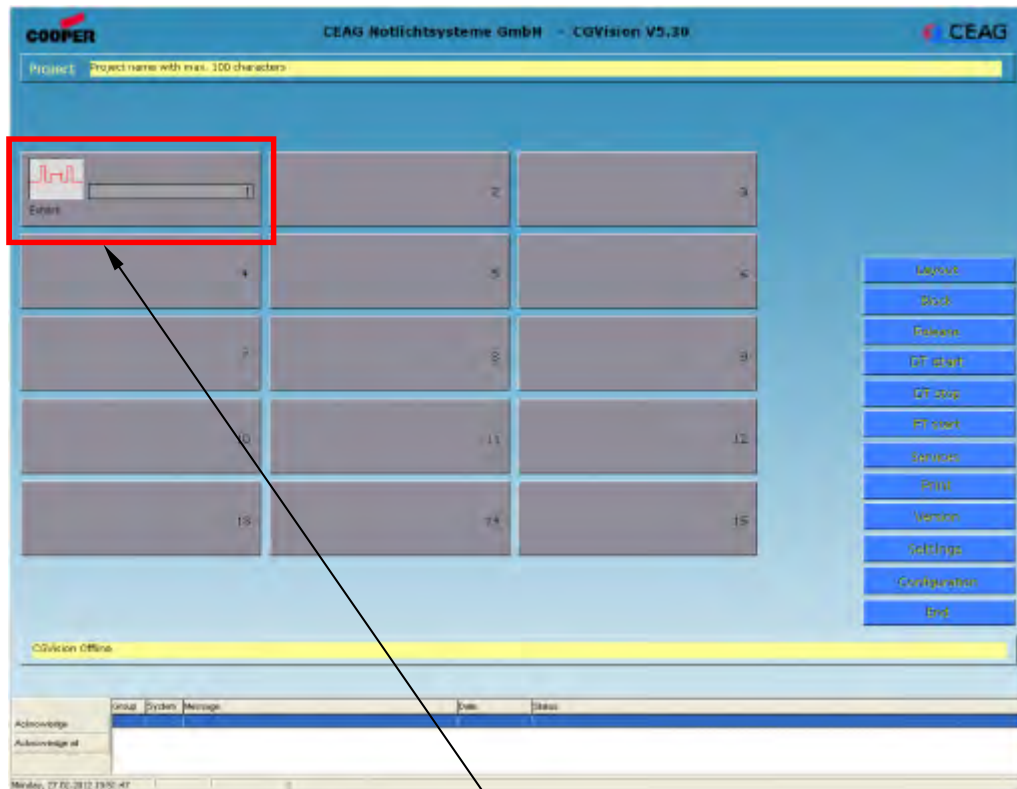
The group configuration menu then appears:

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

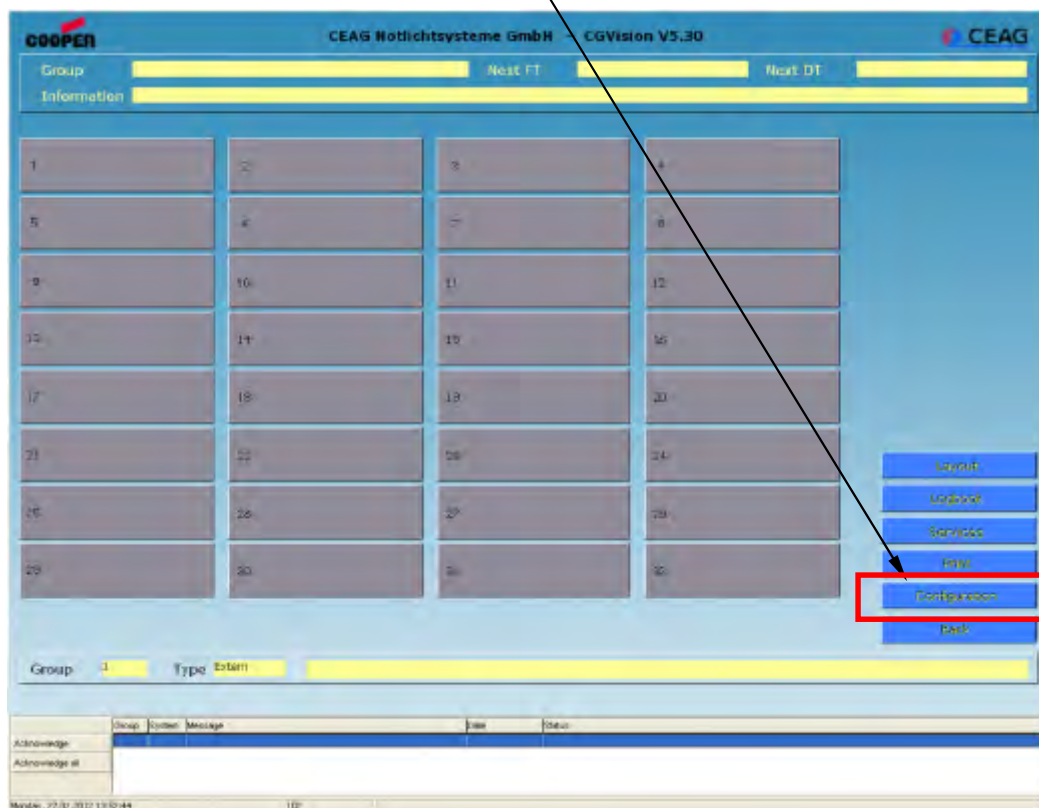
b) In the 'Type' drop-down menu the system type 'External' can be selected and a system group name can be assigned

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 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.

The screenshot shows the 'Configuration group' window. A list of addresses (01 to 26) is on the left, with 01 selected. The right side contains various configuration fields. The 'NeuronID' field is highlighted with a red box. Arrows from the text boxes point to the address list, the 'NeuronID' field, and the 'NeuronID' button.

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

CEAG LON-Suchtool 03.02.2011 V1.02

COOPER

Scan

Wait for service PIN

Store result

Load file

End Wait for service PIN

Send Wink to selected node

Delete result

LON-Interface: LONUSB0

Length: 0 1 3 6

Subnet: 255

Node: 127

Domain ID

Show: ☐ All ☐ CG2000 ☐ ZB-S ☒ REL

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

Other: 0

ZB-S: 0

REL: 0

System founded: 0

Apply

Cancel

CEAG

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.

COOPER LONIP0 Suchergebnisse

Suchen

Warten auf Service PIN

Ergebnisse speichern

Datei laden

044431940200

Suchergebnis

Neuron-ID	Prog-ID	Name	Anlagenadr.	Domain 0	Subnet 0	Node 0	Domain 1	Subnet 1	Node 1
044431940200	REL_200	-	-	-	50	50	disabled	0	0

Anzahl Einträge: 7

CG2000: 1

Sonstige: 1

ZB-S: 4

REL: 1

Gefundene Knoten: 7

Übernehmen

Abbruch

CEAG

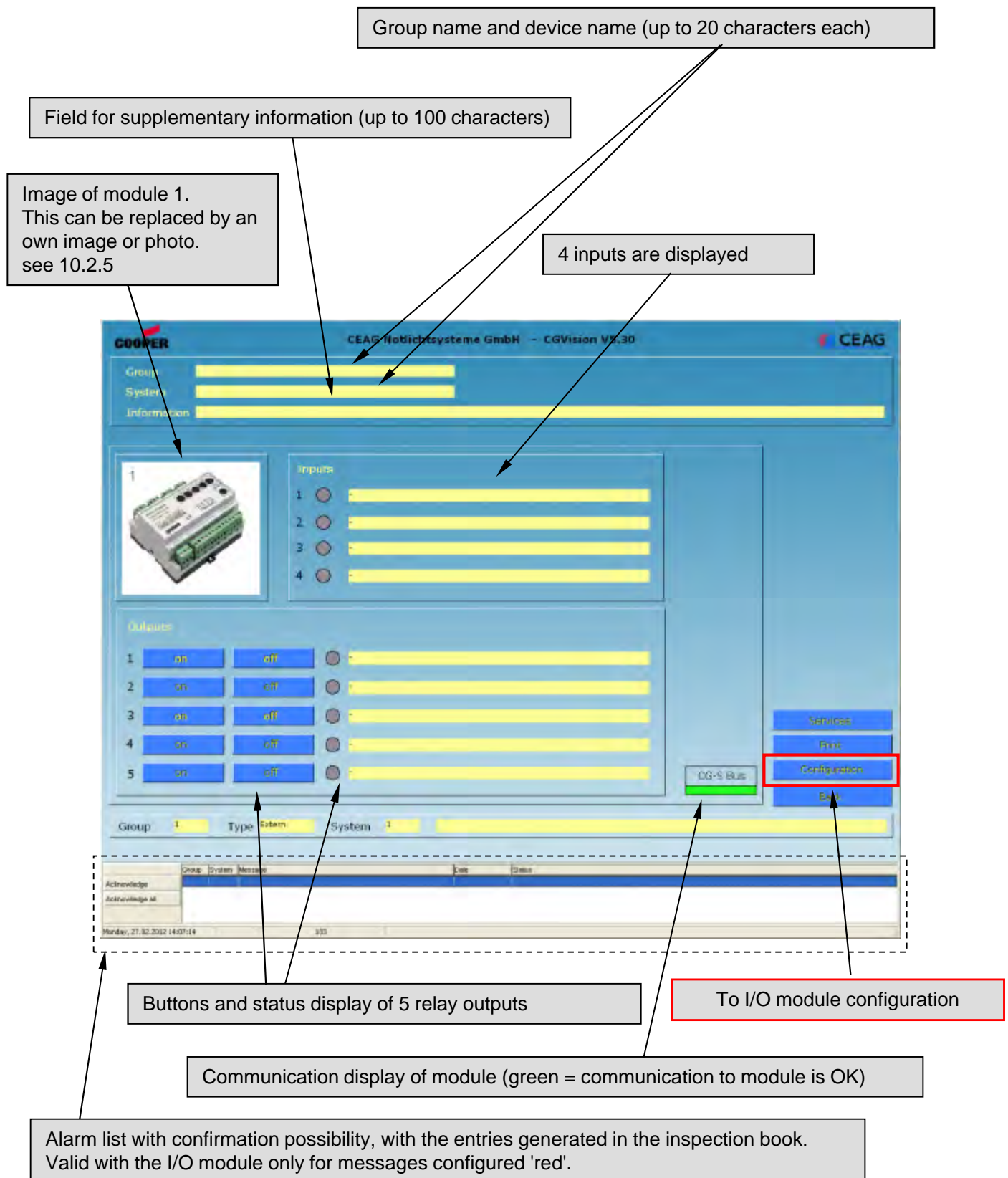
'Accept' automatically copies the NeuronID into the device configuration (next screen)

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'.

10.2.3 Structure of the device screen:



10.2.4 I/O module configuration:

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	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

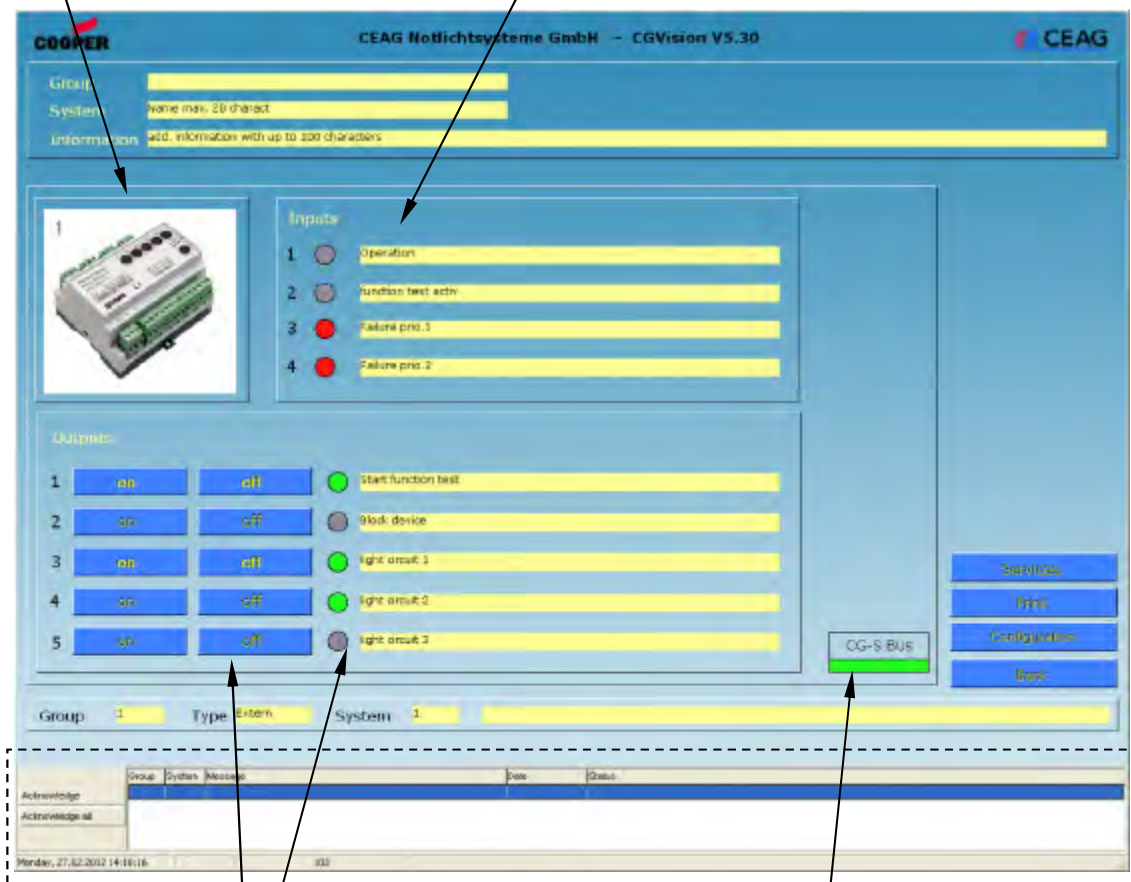
Note: entries assigned red: with events entries are generated in the inspection book, with module number, module name, date and time stamp

10.2.5 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)

10.3 Monitoring with the I/O ethernet module

10.3.1 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.

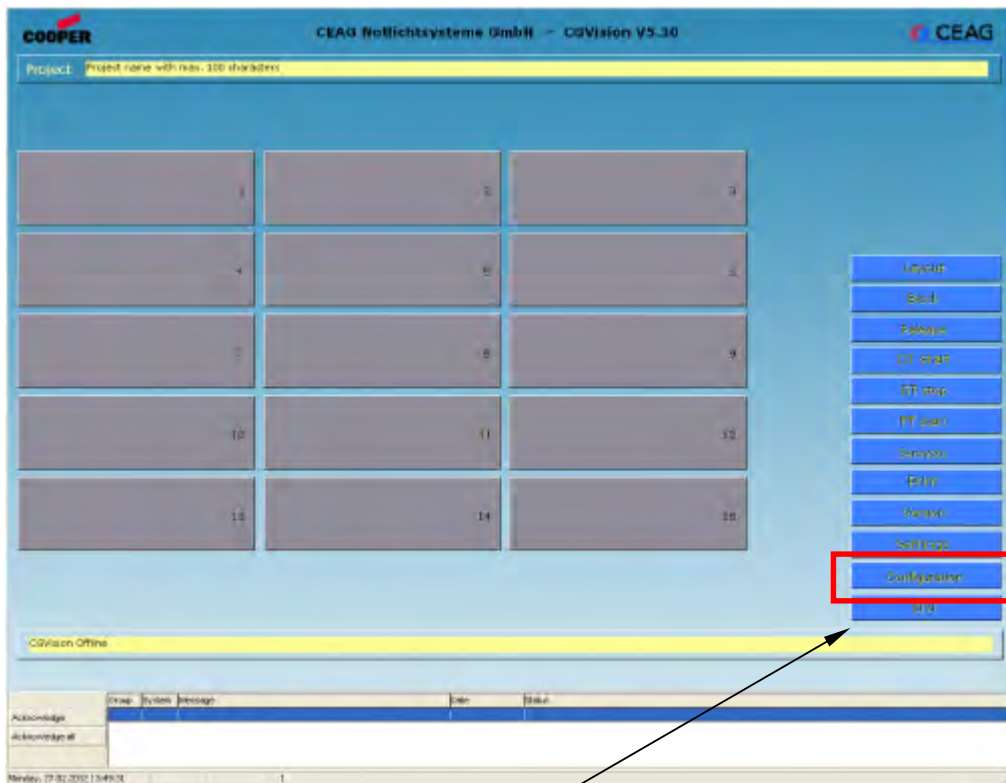
A maximum of 15 groups with up to 32 modules per group can be created in CGVision.

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



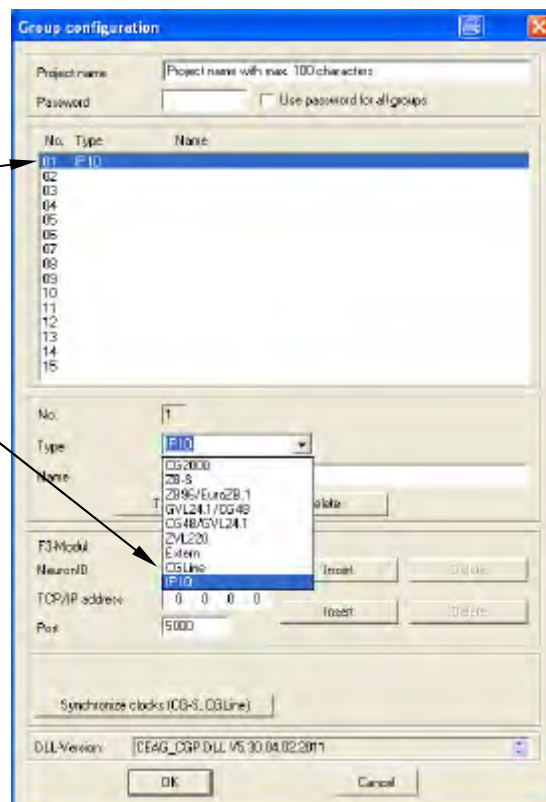
10.3.2 Creating an I/O ethernet module device group

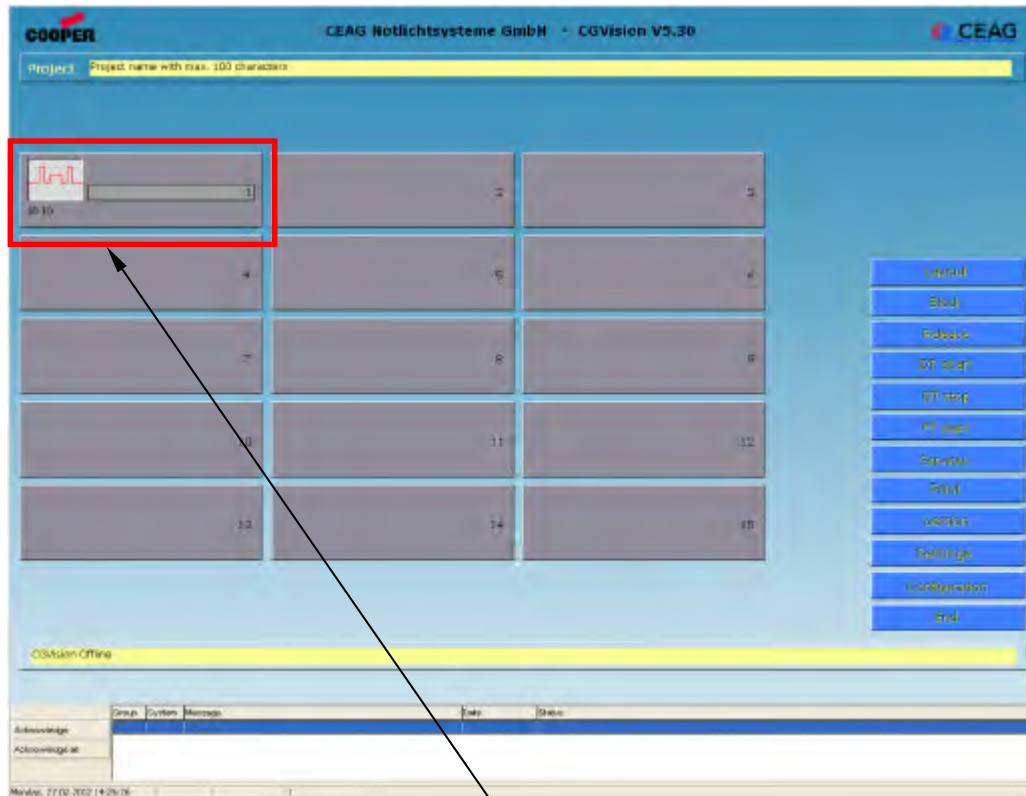


A new device family can be created via the Configuration menu, in this case 'IP IO'.

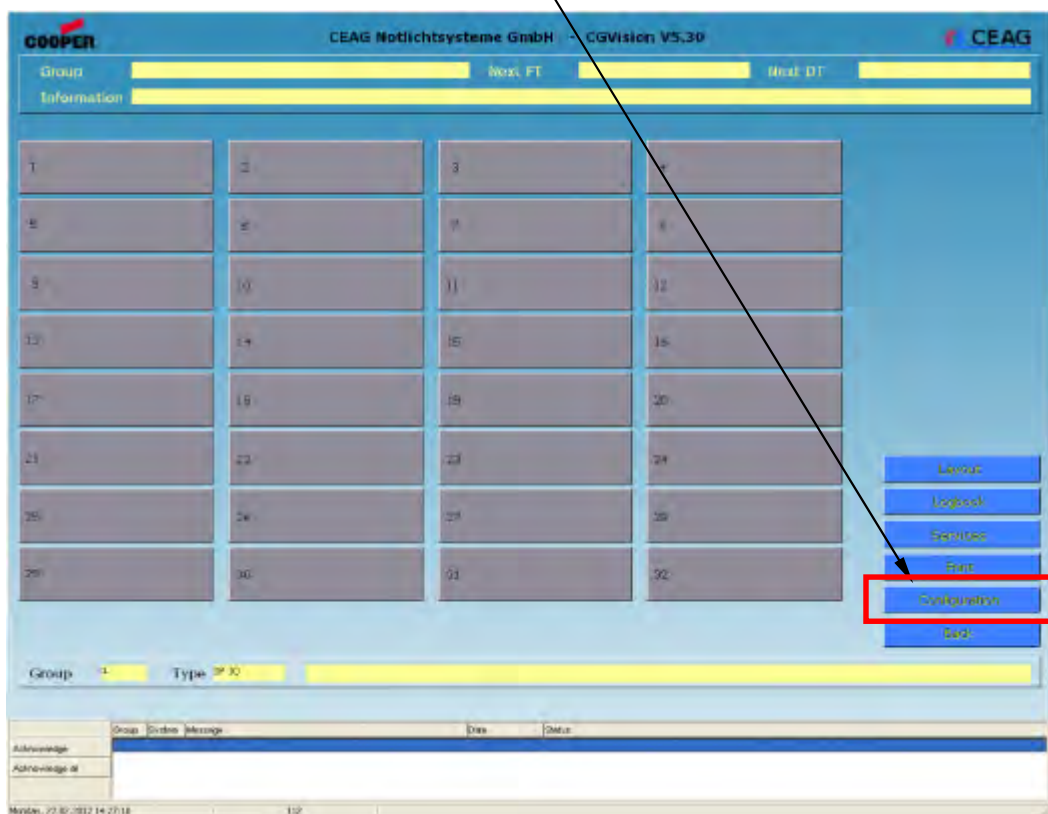
The group configuration menu then appears:

- 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 'IP IO' 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



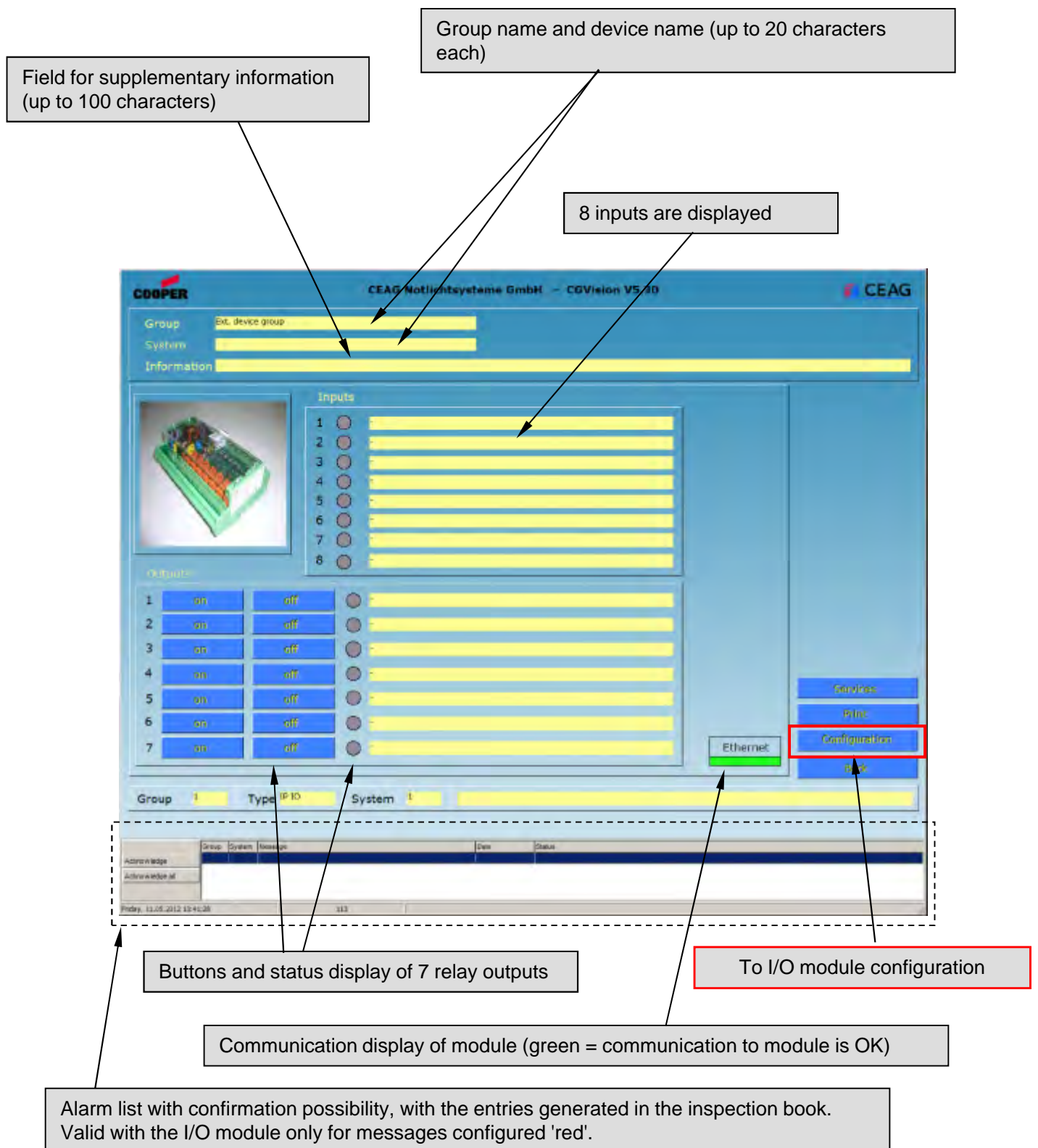
The system configuration menu then appears:

- a) In the device selection window 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'.

10.3.3 Structure of the device screen:



10.2.4 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 <input checked="" type="checkbox"/>	Operation	high	green
2 <input checked="" type="checkbox"/>	Functiontest activ	high	yellow
3 <input checked="" type="checkbox"/>	Durationtest activ	high	yellow
4 <input checked="" type="checkbox"/>	Device is blocked	high	red
5 <input checked="" type="checkbox"/>	Failure Priority 1	low	red
6 <input checked="" type="checkbox"/>	Failure Priority 2	low	red
7 <input checked="" type="checkbox"/>	Charging failure	high	red
8 <input checked="" type="checkbox"/>	Battery failure	high	red

Relay	Name	Colour
1 <input checked="" type="checkbox"/>	Start function test	yellow
2 <input checked="" type="checkbox"/>	Start duration test	yellow
3 <input checked="" type="checkbox"/>	Block device	red
4 <input checked="" type="checkbox"/>	Light circuit 1	yellow
5 <input checked="" type="checkbox"/>	Light circuit 2	yellow
6 <input checked="" type="checkbox"/>	Manual reset	green
7 <input checked="" type="checkbox"/>	Reset	green

Configuration of 7 relay outputs with text assignment

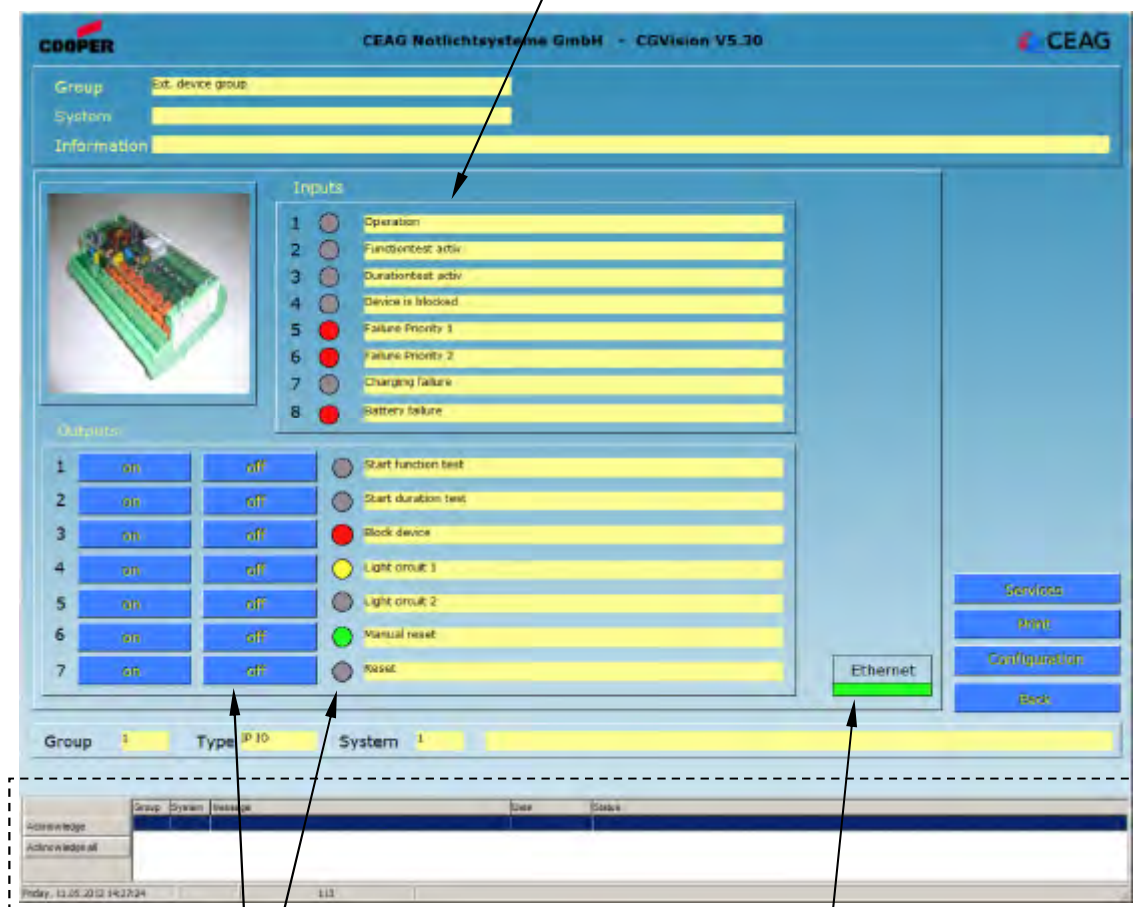
Colour assignment of outputs, e.g.:
Start test = yellow
Faults = red etc.

Note: entries assigned red: with events entries are generated in the inspection book, with module number, module name, date and time stamp

10.3.5 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



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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- Subject to technical modifications -

For the monitoring and control of
CEAG emergency lighting systems

CGVision from V5.10

400 71 347 387 (E)



Section 11

CGVision e-mail function

11 CGVision e-mail function

11.1 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.

11.2 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' window with the 'E-Mail' tab selected. The window has a title bar with 'Settings' and standard window controls. Below the title bar are tabs: 'CG-S interface', 'General', 'Configuration print-out', 'Language', 'E-Mail' (highlighted with a red box), and 'Alarm list'. The main area contains the following fields:

- Settings:** A checkbox with a checkmark, indicated by an arrow from the annotation 'Activation of the E-mail function'.
- SMTP Server:** A text input field, indicated by an arrow from the annotation 'IP address of the mail server'.
- Sender:** A text input field, indicated by an arrow from the annotation 'Name of the sender. This appears in the head of the E-mail'.
- Authentication:** A section containing:
 - User:** A text input field, indicated by an arrow from the annotation 'If the mail server requires authentication, user name and password must be entered here.'
 - Password:** A text input field, indicated by the same arrow.
- Status mail attachment:** A text input field with a browse button (three dots) to its right, indicated by an arrow from the annotation 'When sending a status mail, a mail attachment can be selected here if desired.'

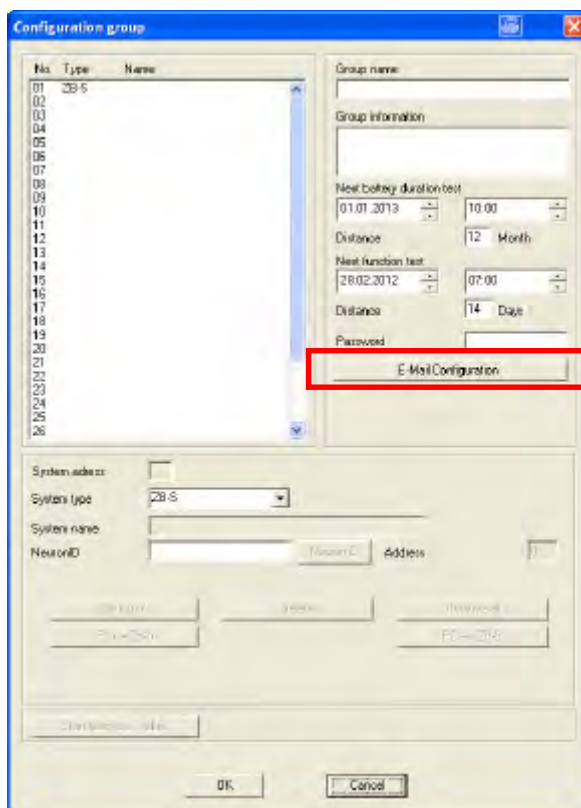
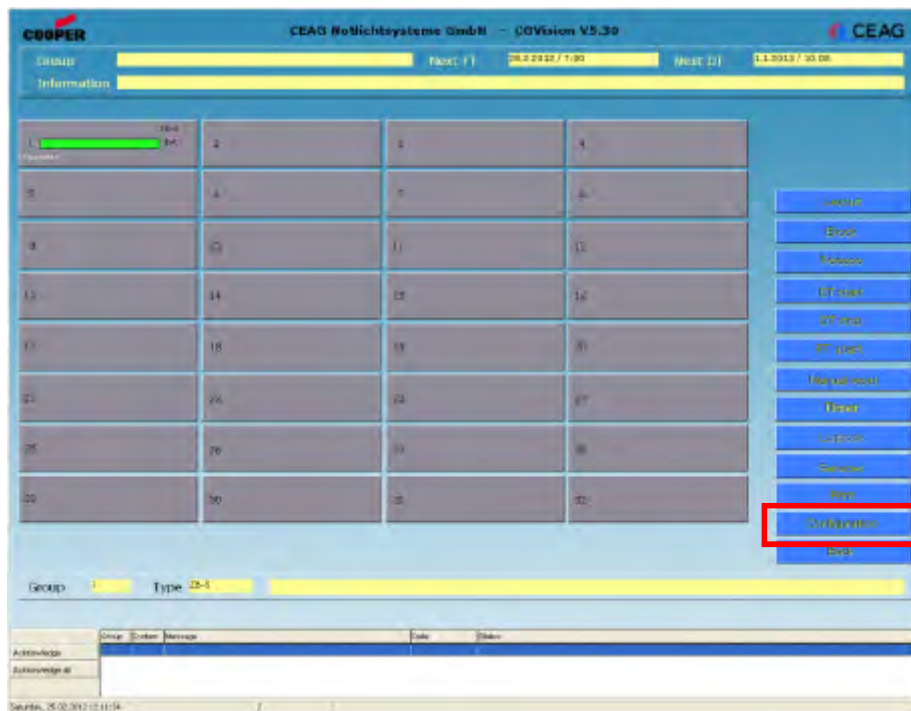
At the bottom are 'OK' and 'Cancel' buttons.

Annotations:

- 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. 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 '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.

11.3 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

Receiver 1 Receiver 6

Receiver 2 Receiver 7

Receiver 3 Receiver 8

Receiver 4 Receiver 9

Receiver 5 Receiver 10

Text test mail

E-Mail configuration

Receiver	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"/>

Set up time group state
 Time:
 Days: ☐ Su ☐ Mo ☐ Tu ☐ We ☐ Th ☐ Fr ☐ Sa

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.

11.4 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 receiver

☒ E-Mail enabled Group 01

☒ Attach file to status mail

Receiver 1: Sample1@ceag.de

Receiver 2: Sample2@ceag.de

Receiver 3: Sample3@ceag.de

Receiver 4: Sample4@ceag.de

Receiver 5:

Receiver 6:

Receiver 7:

Receiver 8:

Receiver 9:

Receiver 10:

Test mail Text test mail

E-Mail configuration

Receiver	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"/>

Set up time group state

Time: 08:00:00

Days: ☐ Su ☒ Mo ☐ Tu ☐ We ☐ Th ☒ Fr ☐ Sa

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.

Notices:

Notices:



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-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 V5.10

400 71 347 387 (E)



Section 12

Layout programming

12 Layout programming

12.1 Layout programming of devices

12.1.1 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 2007) 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:

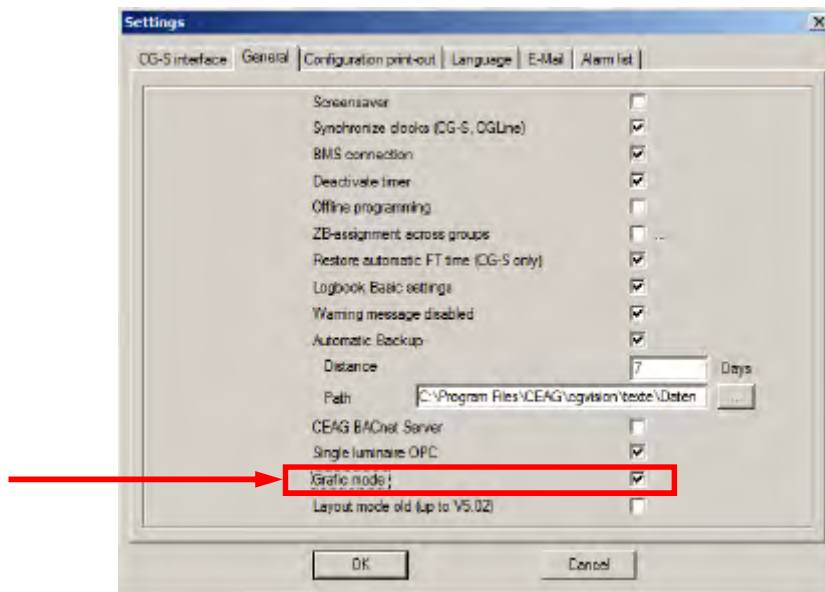
The screenshot displays the CGVision software interface. At the top, a menu bar shows 'Gruppe 1', 'Typ ZB-S', 'Gruppe Sample display', and 'nächster FT 16.12.2009 / 15:10'. The main area is an aerial photograph of a factory complex with numerous green, yellow, and red icons representing ZB-S devices. On the right, a vertical sidebar contains buttons for 'Layout', 'Block', 'Release', 'DT start', 'DT stop', 'FT start', 'Services', 'Print', 'Version', 'Settings', 'Configuration', and 'End'. At the bottom, a status bar includes a log table with columns 'Gruppe', 'Anlage', 'Meldung', 'Datum', and 'Status'.

Gruppe	Anlage	Meldung	Datum	Status
Bestätigen	1	Bestätigung	16.12.2009 15:10:25	OK
Aus Bestätigen	1	Abbestätigung	16.12.2009 15:10:25	OK

Below the log table, the status bar shows 'Sonabend, 12.12.2009 12:32:35' and '03_00_0_0_0_00'.

12.1.2 Activating the layout programming for devices

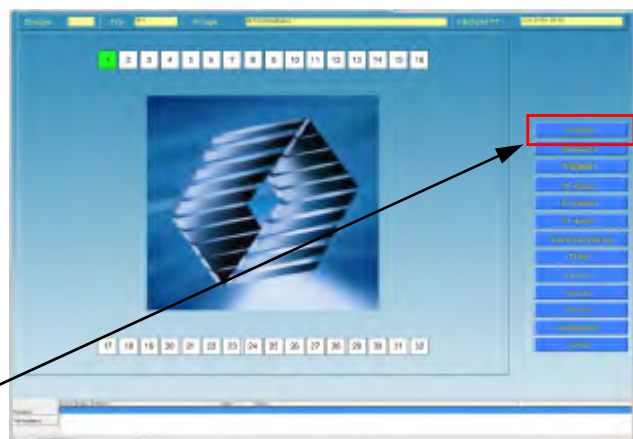
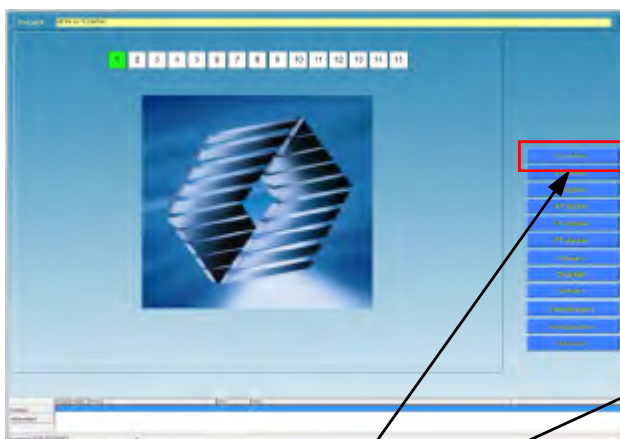
The function for layout programming for devices must firstly be activated in CGVision. This is implemented via the 'settings' menu in the main group screen, in the 'General' tab:



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:

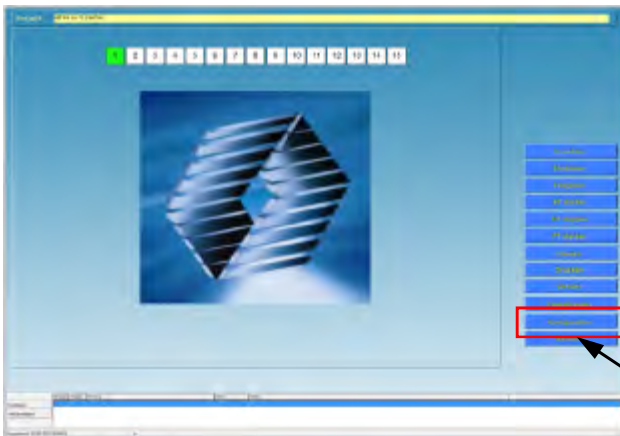
Graphic mode (start screen) of the **main group screen**:

Graphic mode (start screen) of the **system group screen**:

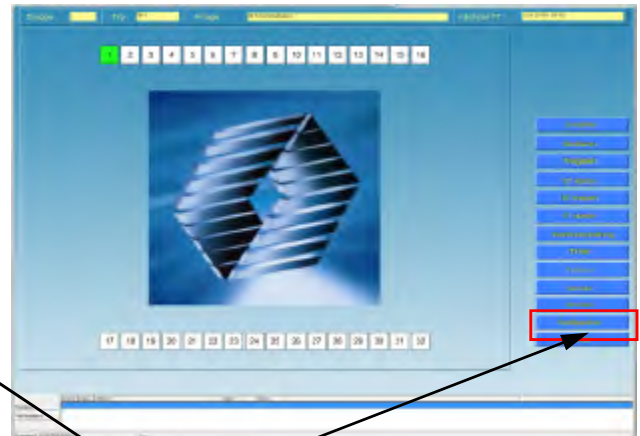


The right mouse button is used to alternate between graphic mode and normal display

Graphic mode (start screen) of the **main group screen**:

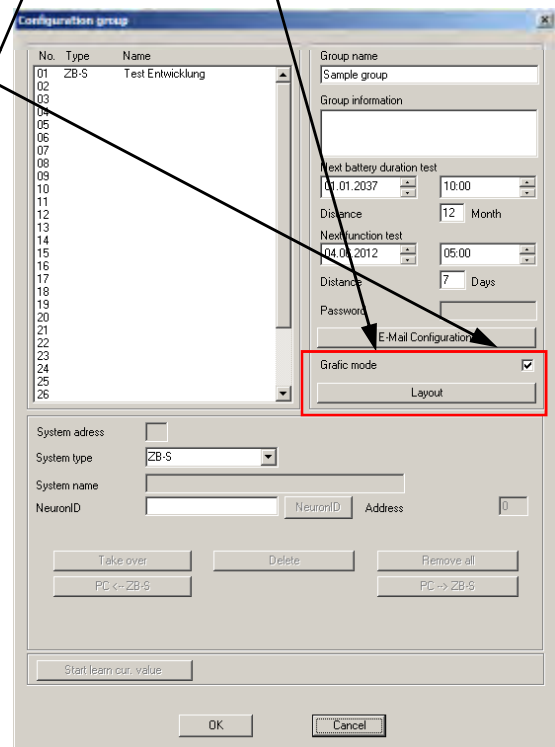
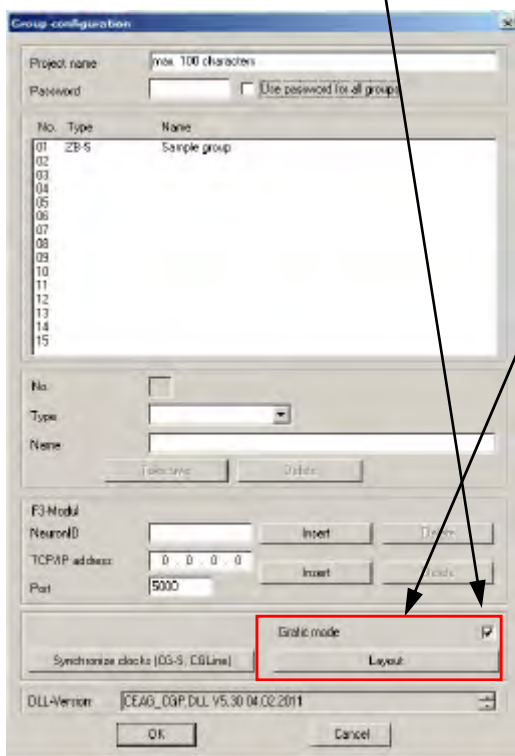


Graphic mode (start screen) of the **system group screen**:



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**:
(see 12.1.3)

To layout programming (graphics tool) of the **system group screen**:
(Example system group 1)
(see 12.1.4)

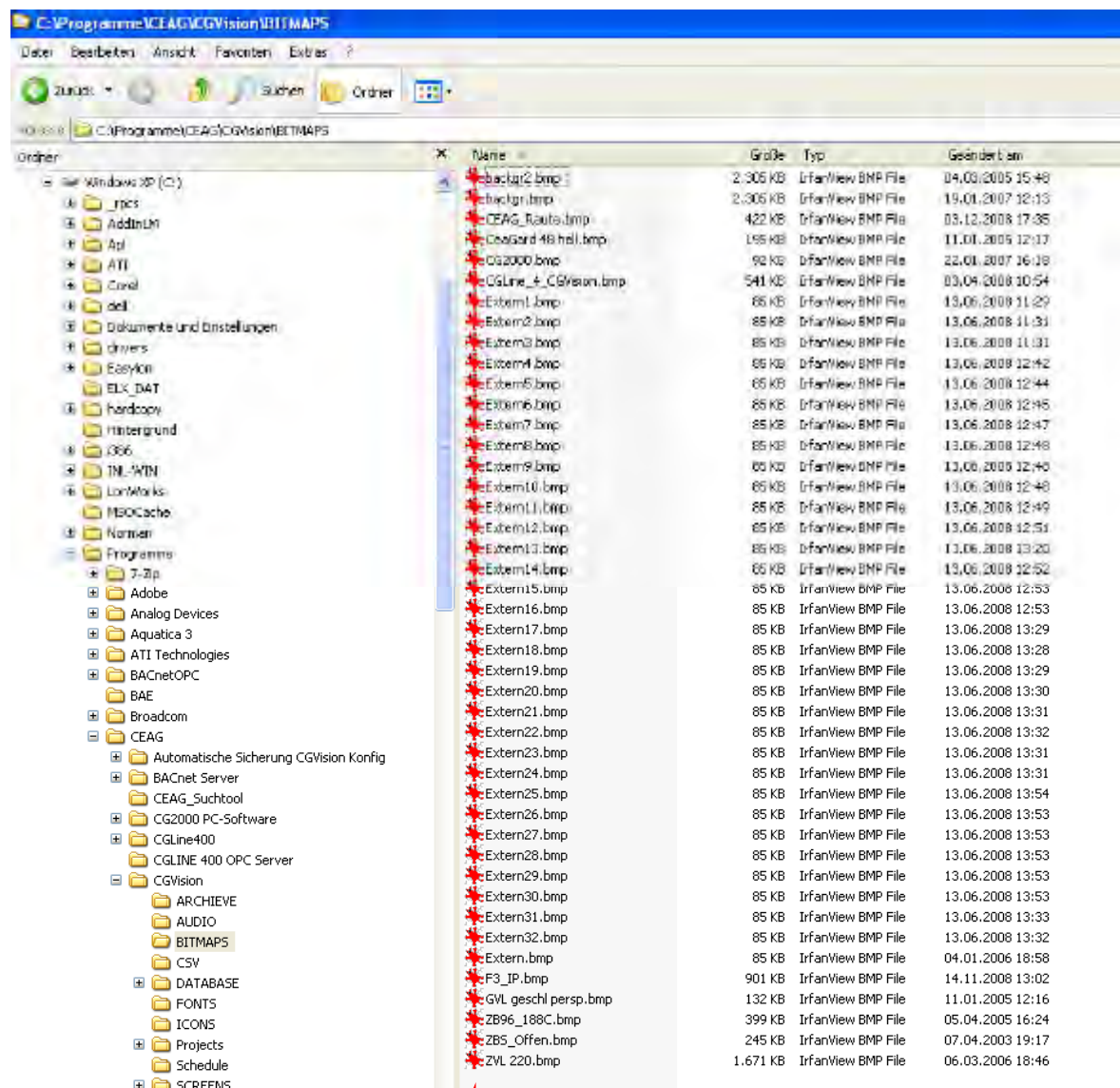
12.1.3 Layout programming for device groups in the main group screen

12.1.3.1 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:

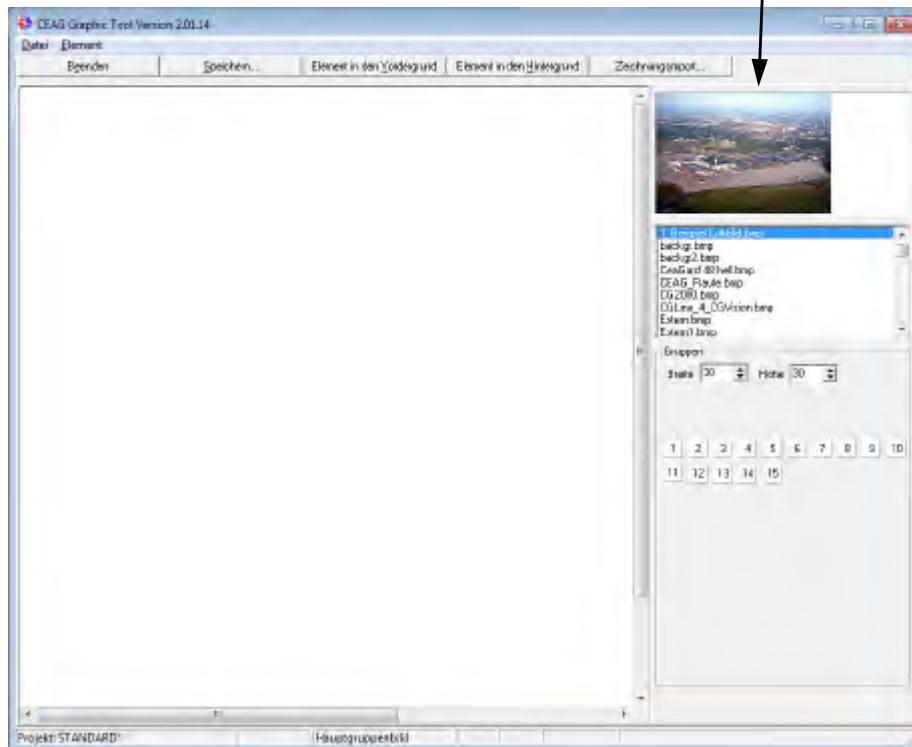
C:/Programme/CEAG/CGVision/BITMAPS



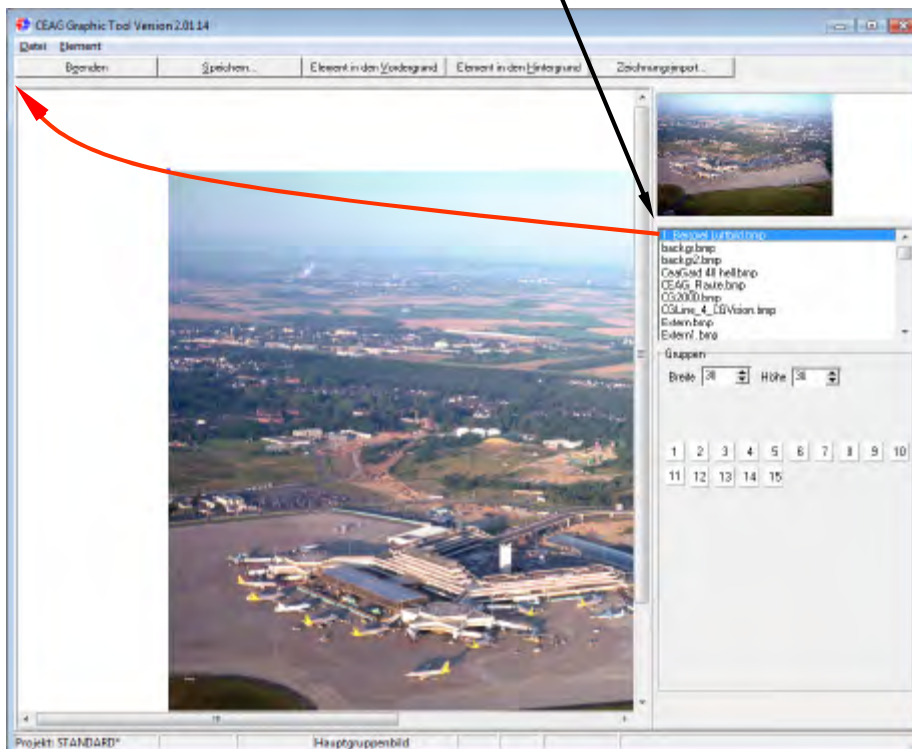
The existing images in this folder are the CGVision system files. These should not be deleted or moved.

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.

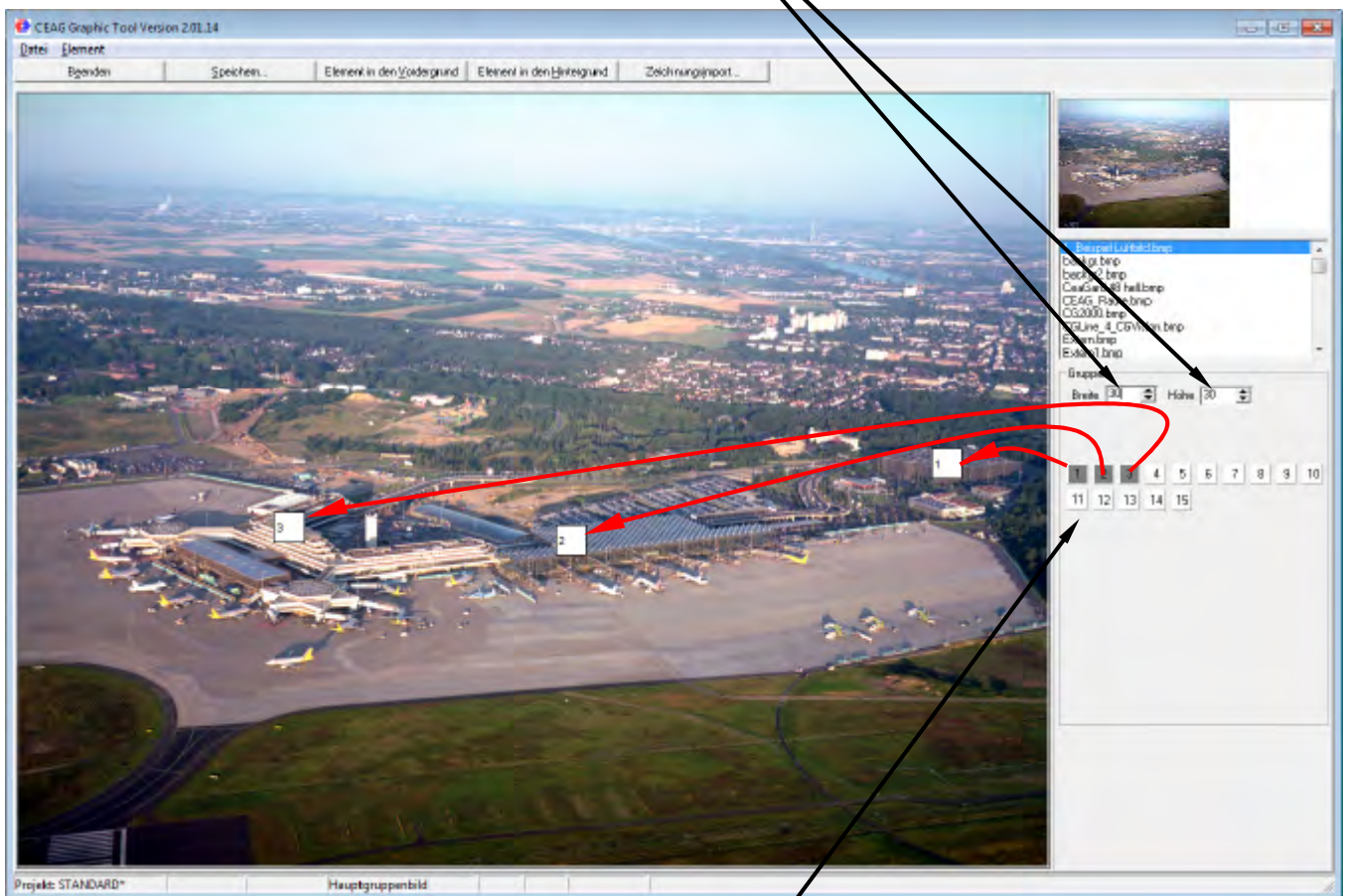
By clicking on 'Layout' in the configuration menu, the CEAG graphics programme opens for layout programming. The copied images appear in the selection list with preview:



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

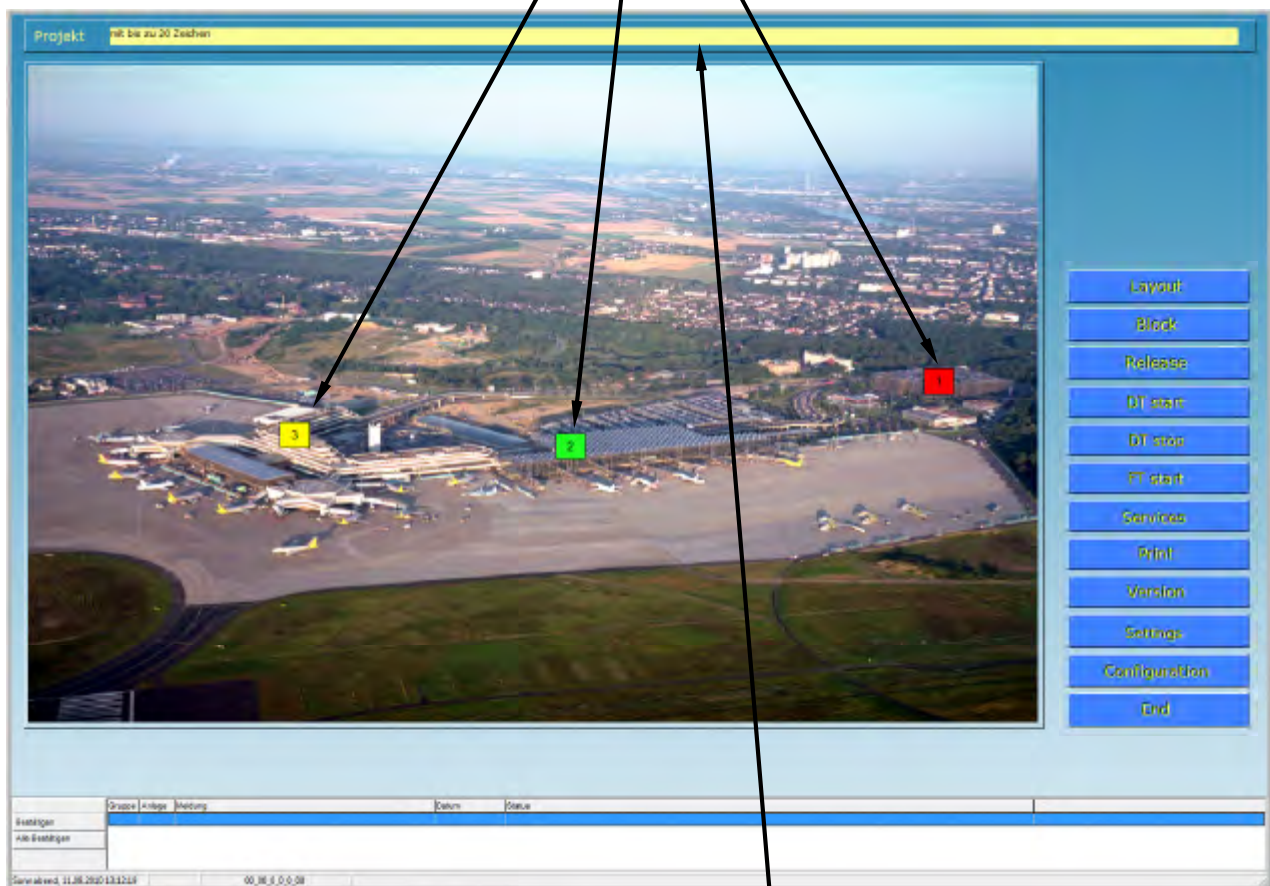
After successful positioning of all system groups, programming can be exited with 'Save' and 'Exit'.
The main group screen is now displayed with the created graphic. The system groups display the status via colours, e.g.

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.



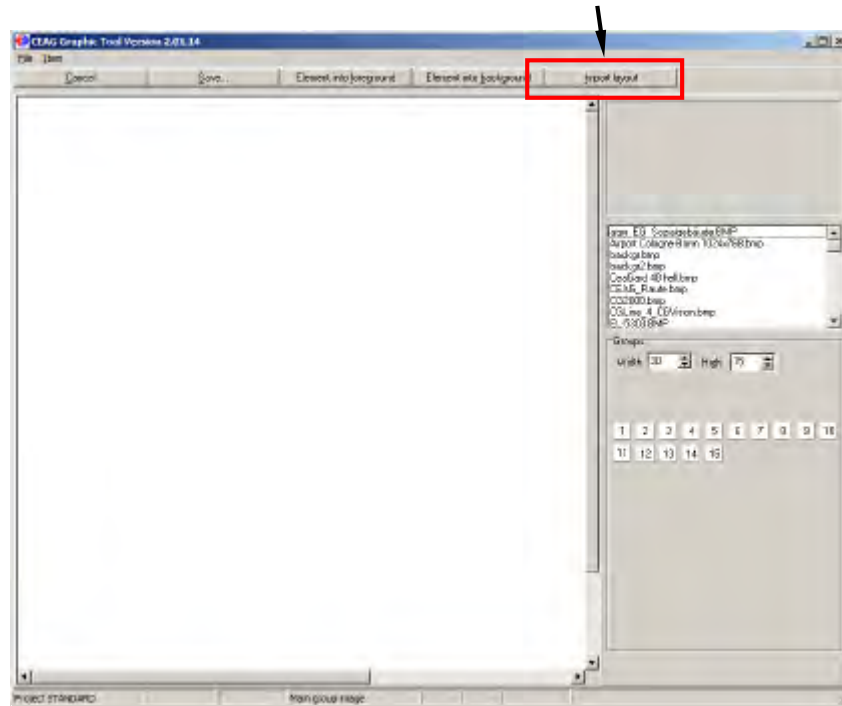
A better overview is achieved by using the explorer view (recommended) that can be started by clicking with the right mouse button on the yellow address bar.
See also Section 3 – Structure and basic operation.

12.1.3.2 Layout programming for device groups via .dwg/.dxf import

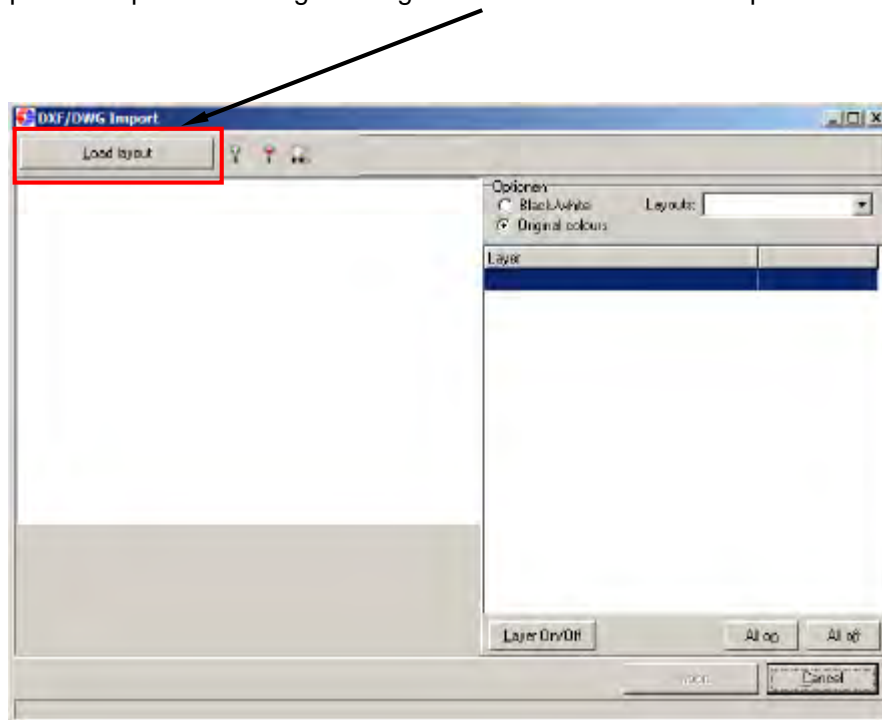
Note: .dwg/.dxf files to AutoCAD 2007 are supported.

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:



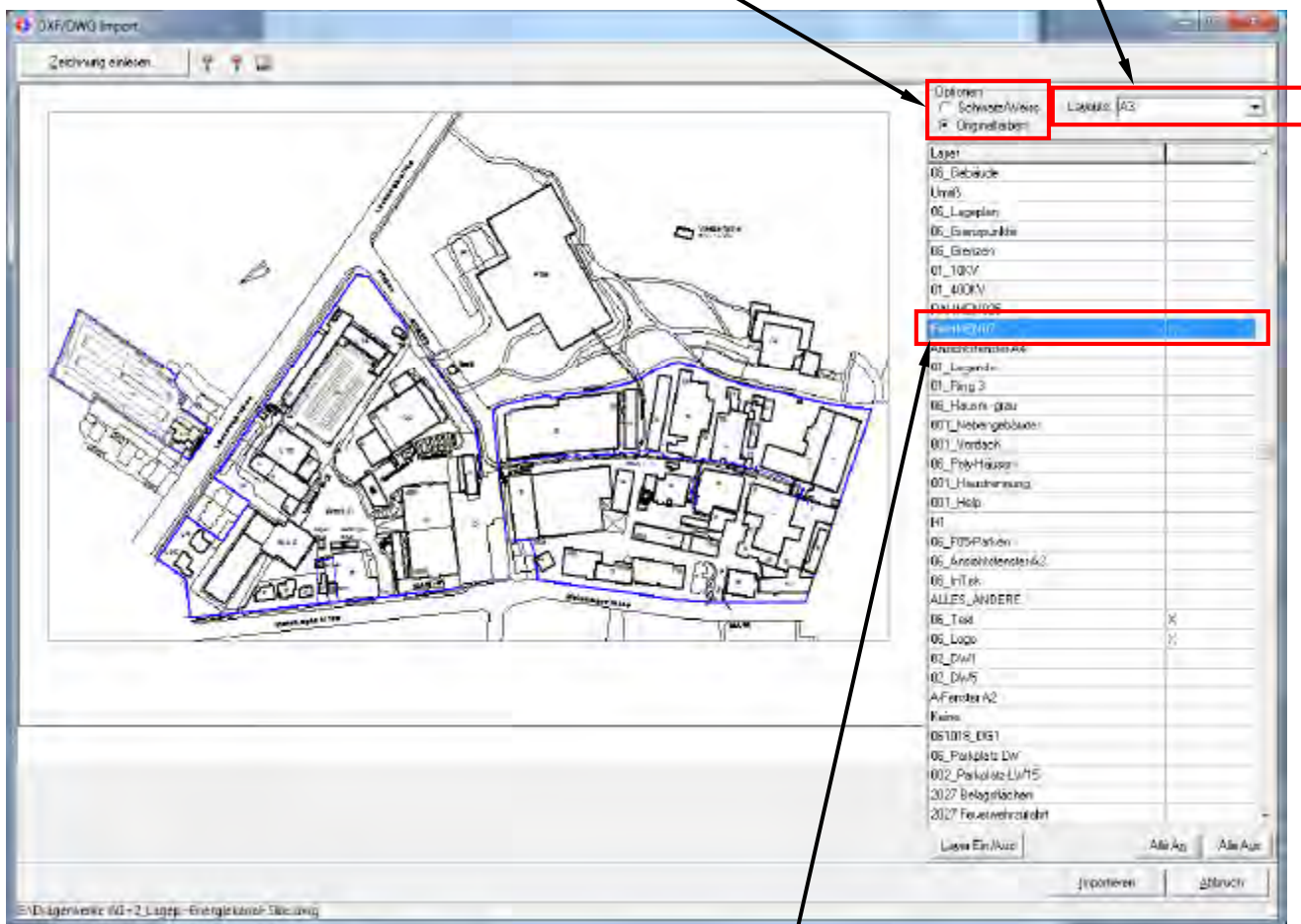
The DXF/DWG import tool opens. .dxf/dwg drawings can now be read in via 'Import drawing':



After selecting and opening the correct file, the drawing is displayed in the import tool in an overview.

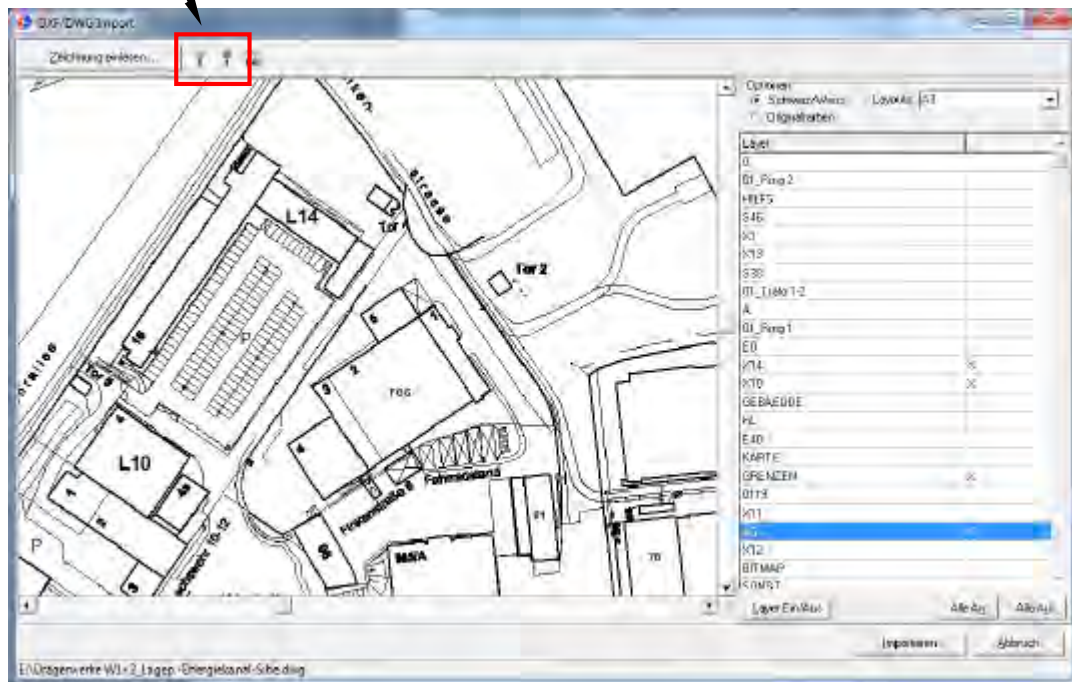
In the 'Layouts' selection field, a specific layout (if this exists) can be selected from the .dwg files.

Coloured layers can be rendered in black and white to clarify the display.

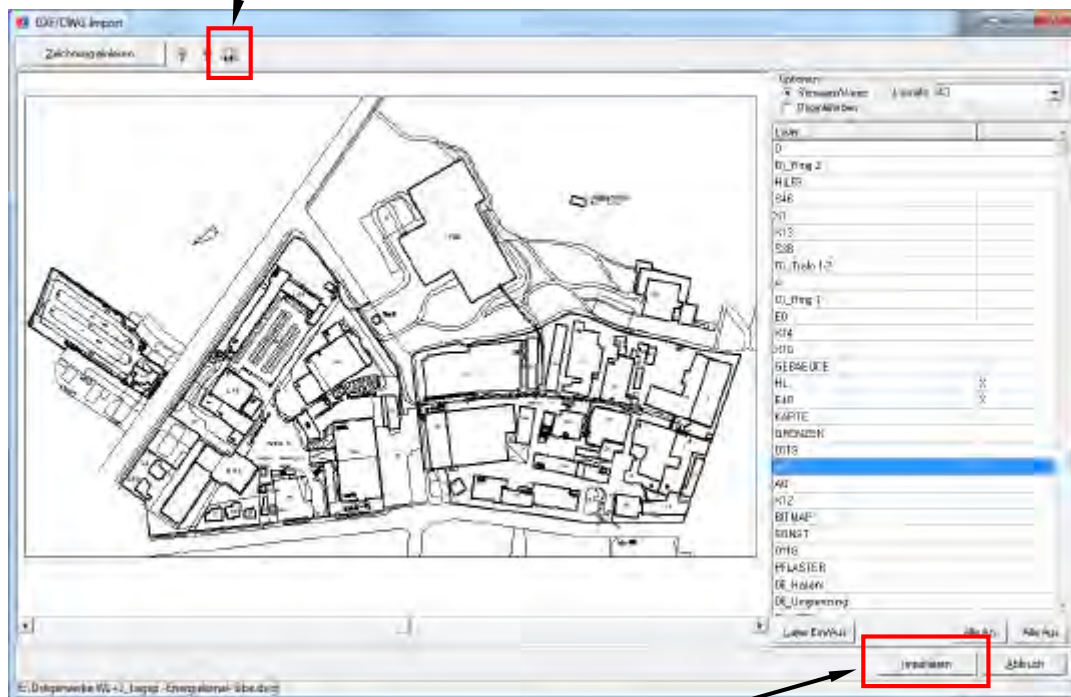


All available layers are listed in the area on the right, and these can be hidden or displayed via double clicking or via 'Layer On/Off'. The hidden layers are designated with an X.

The drawing can be zoomed into or reduced in size with Image magnifier + or Image magnifier –.

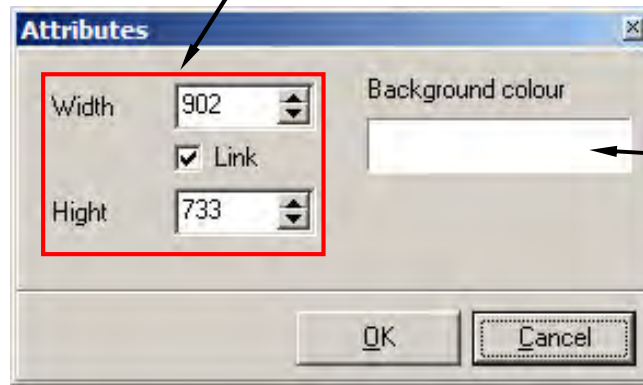


The complete drawing is displayed again with the right image magnifier symbol.



The suitable image is then loaded via 'Import'.

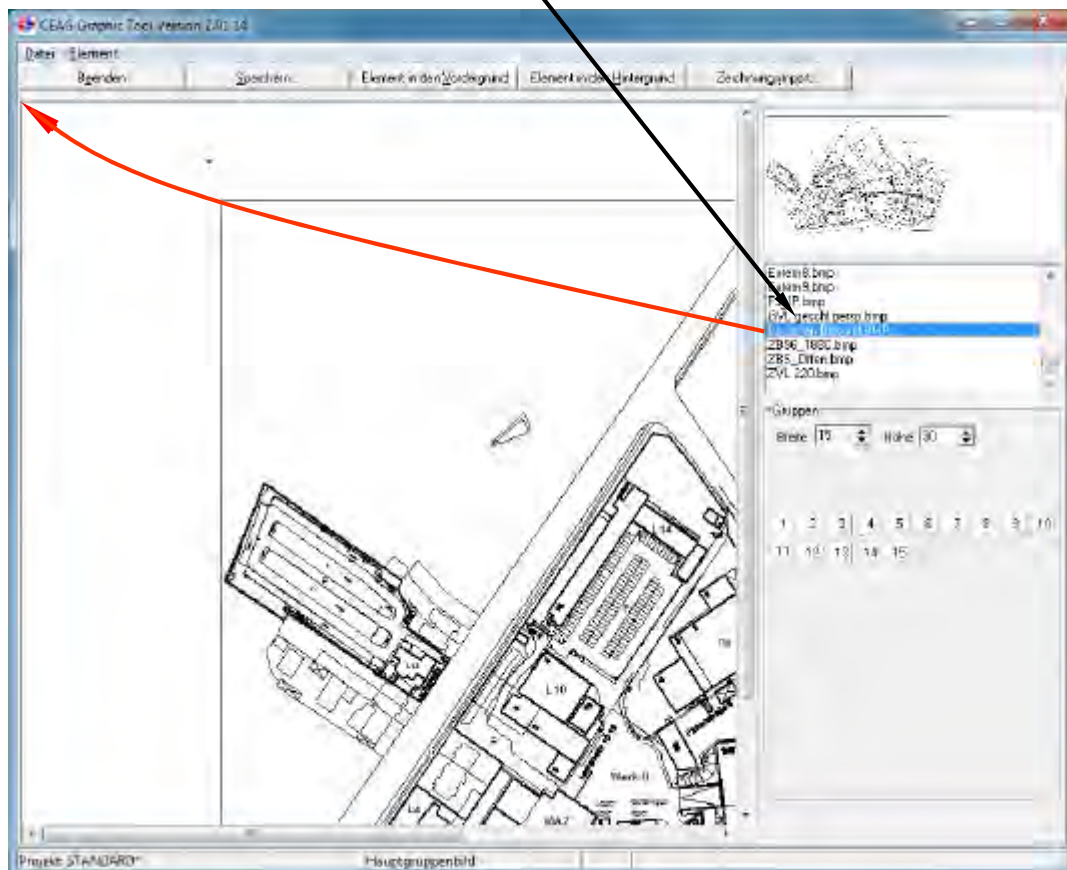
The size of the image is then queried. 1024 x 768 should be specified if possible because the layout programming is designed for this size. When the width is modified, the height is also modified if 'Link' is activated.



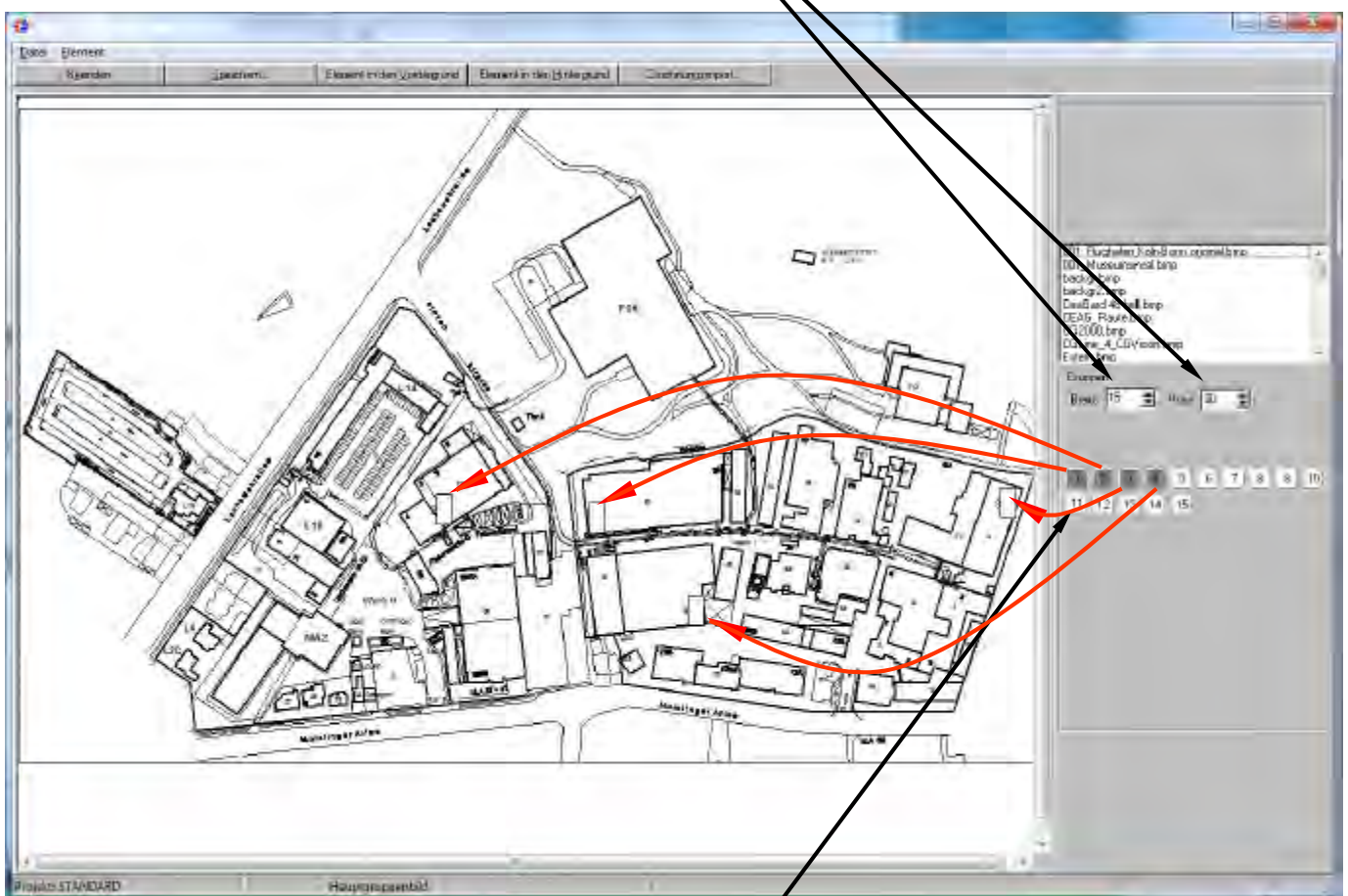
The image can be colour-highlighted for better contrast during import via 'Background colour'. (For this, the black/white option must have been specified previously).

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.

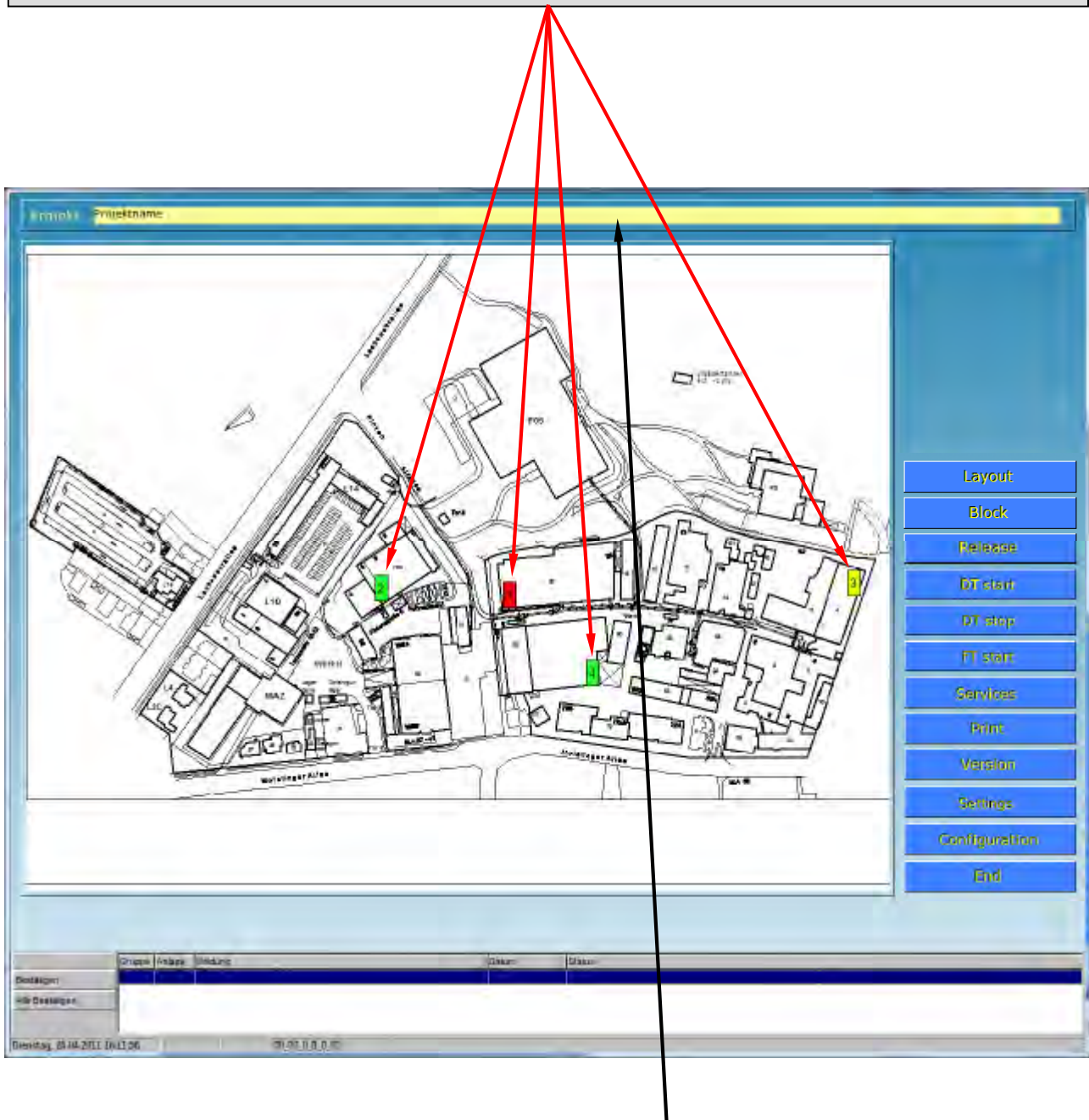
After successful positioning of all system groups, programming can be exited with 'Save' and 'Exit'. The main group screen is now displayed with the created graphic. The system groups display the status via colours, e.g.

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.

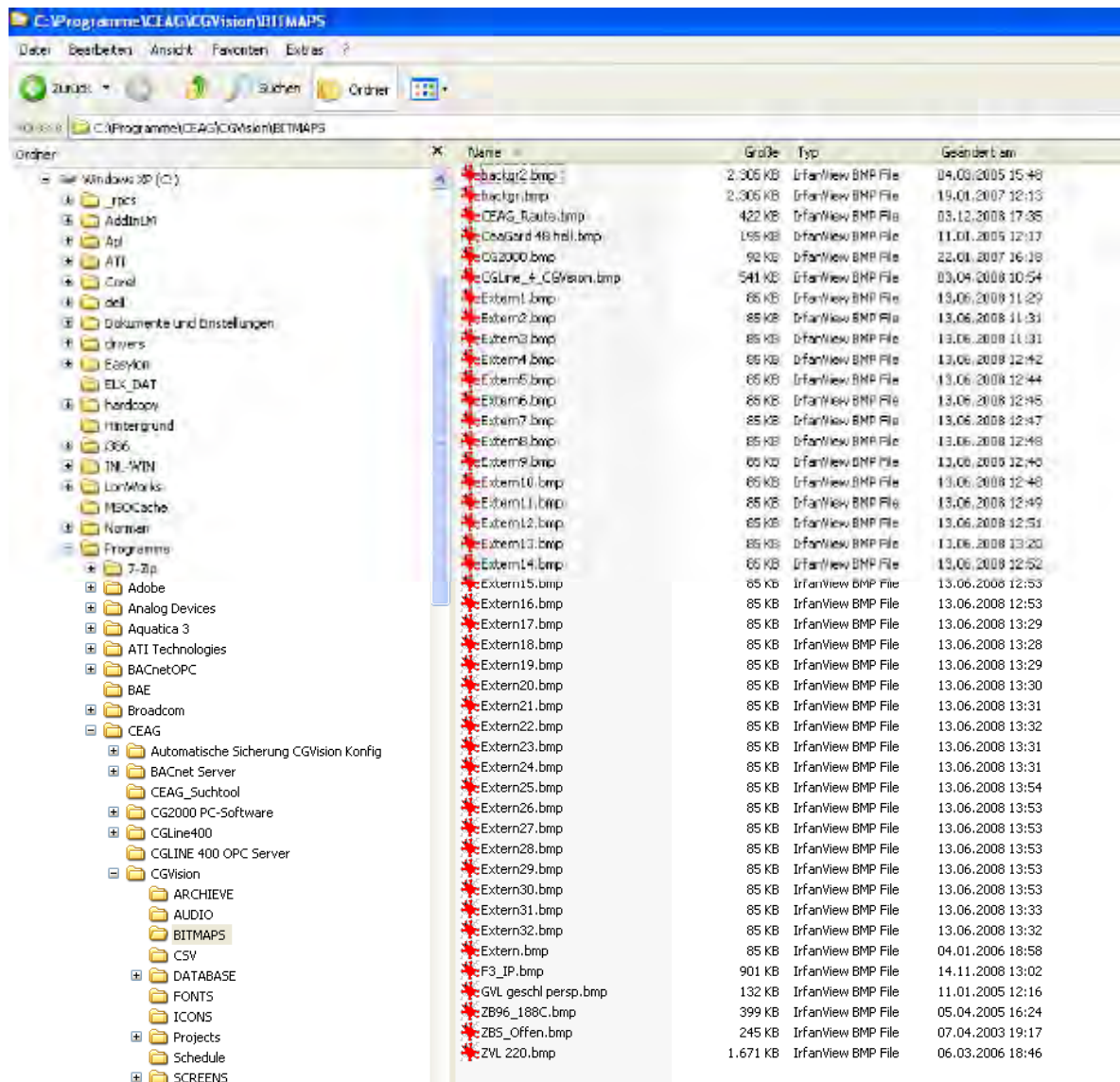
12.1.4 Layout programming of devices in the system group screen

12.1.4.1 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:

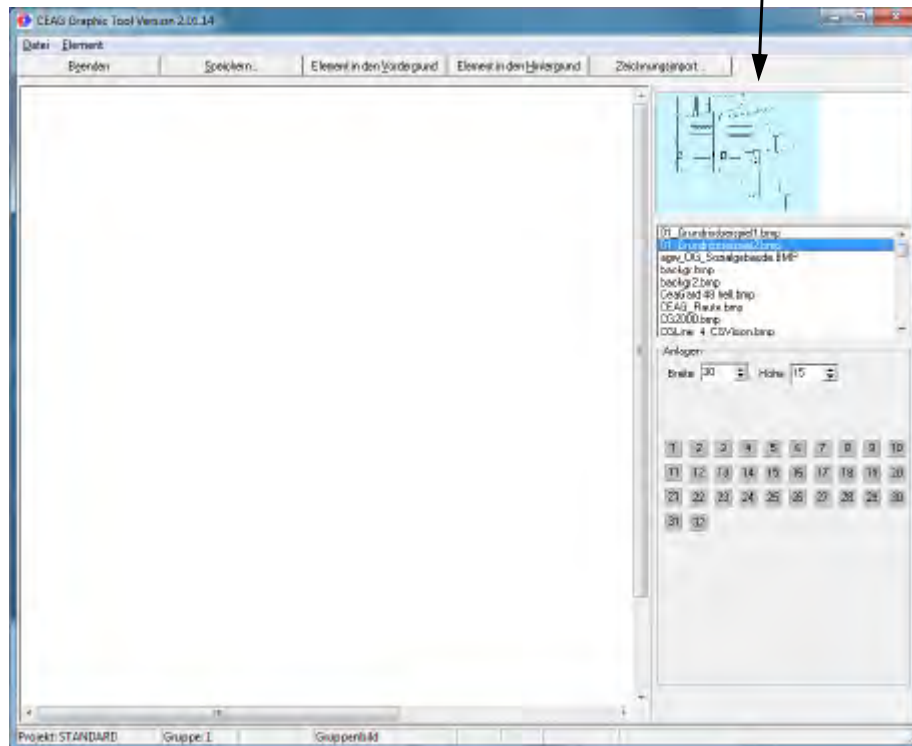
C:/Programme/CEAG/CGVision/BITMAPS



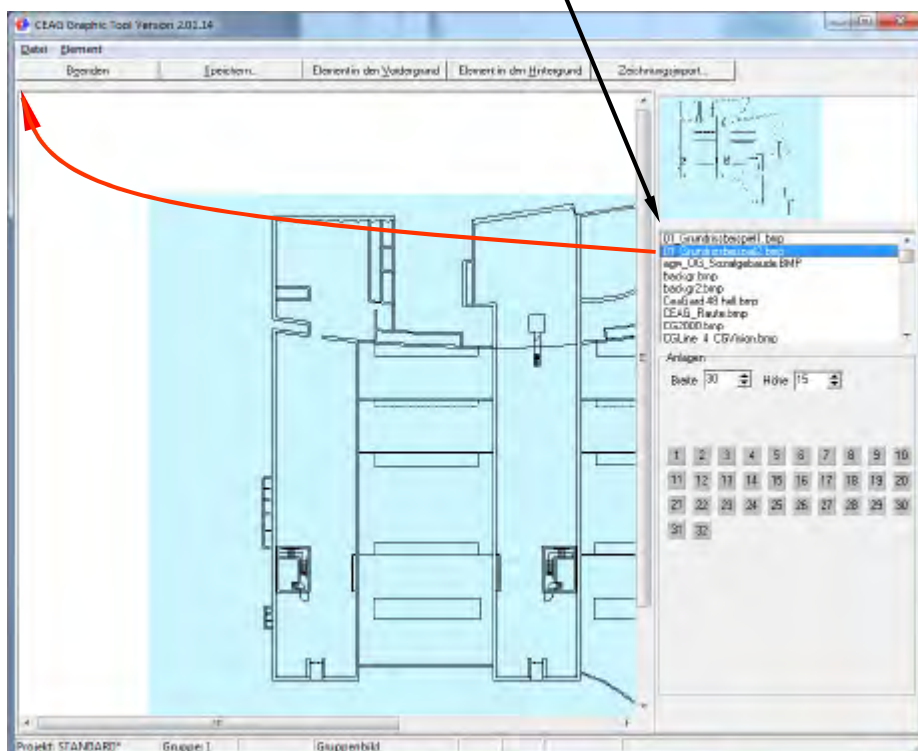
The existing images in this folder are the CGVision system files. These should not be deleted or moved.

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.

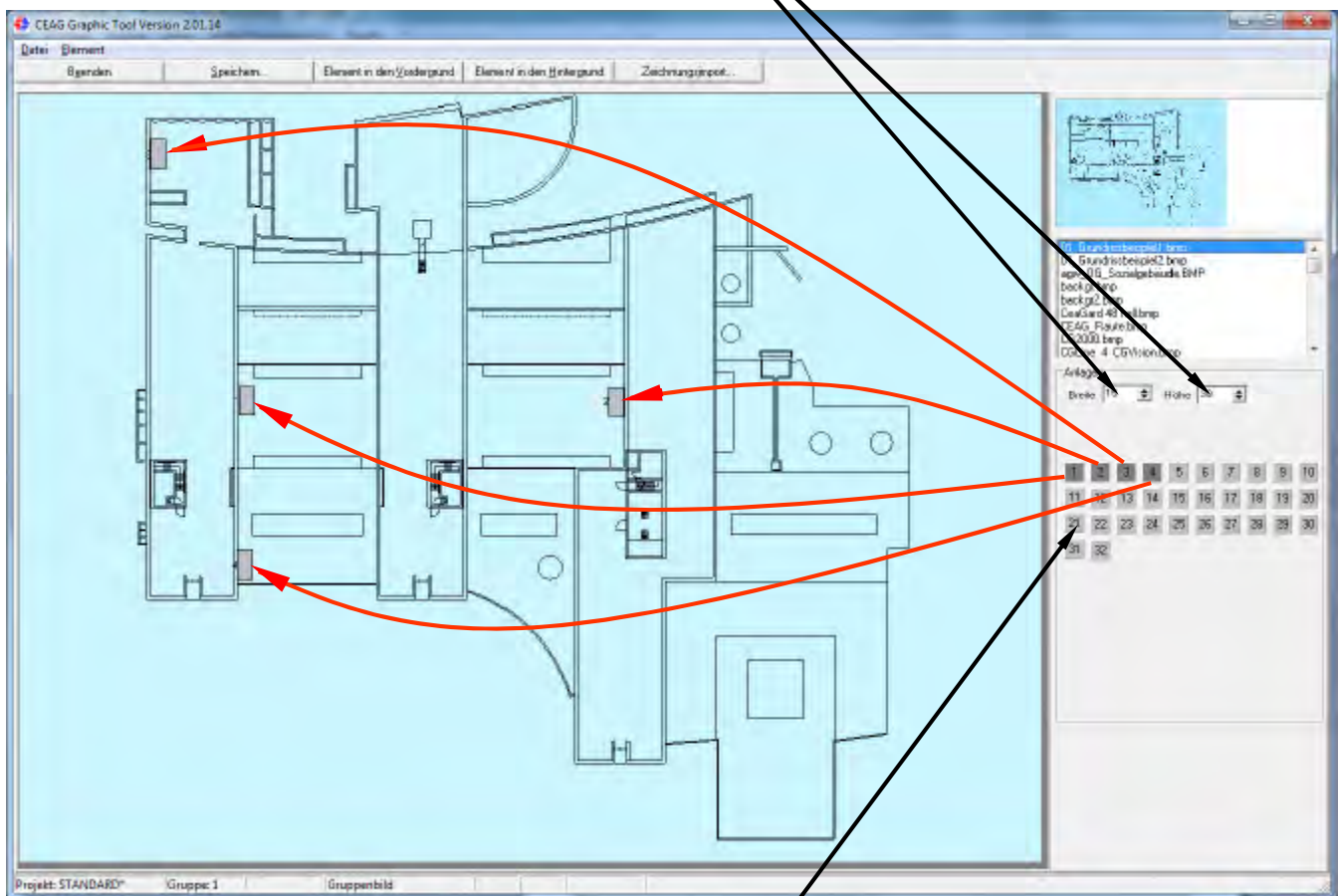
By clicking on 'Layout' in the configuration menu, the CEAG graphics programme opens for layout programming. The copied images appear in the selection list with previews:



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.

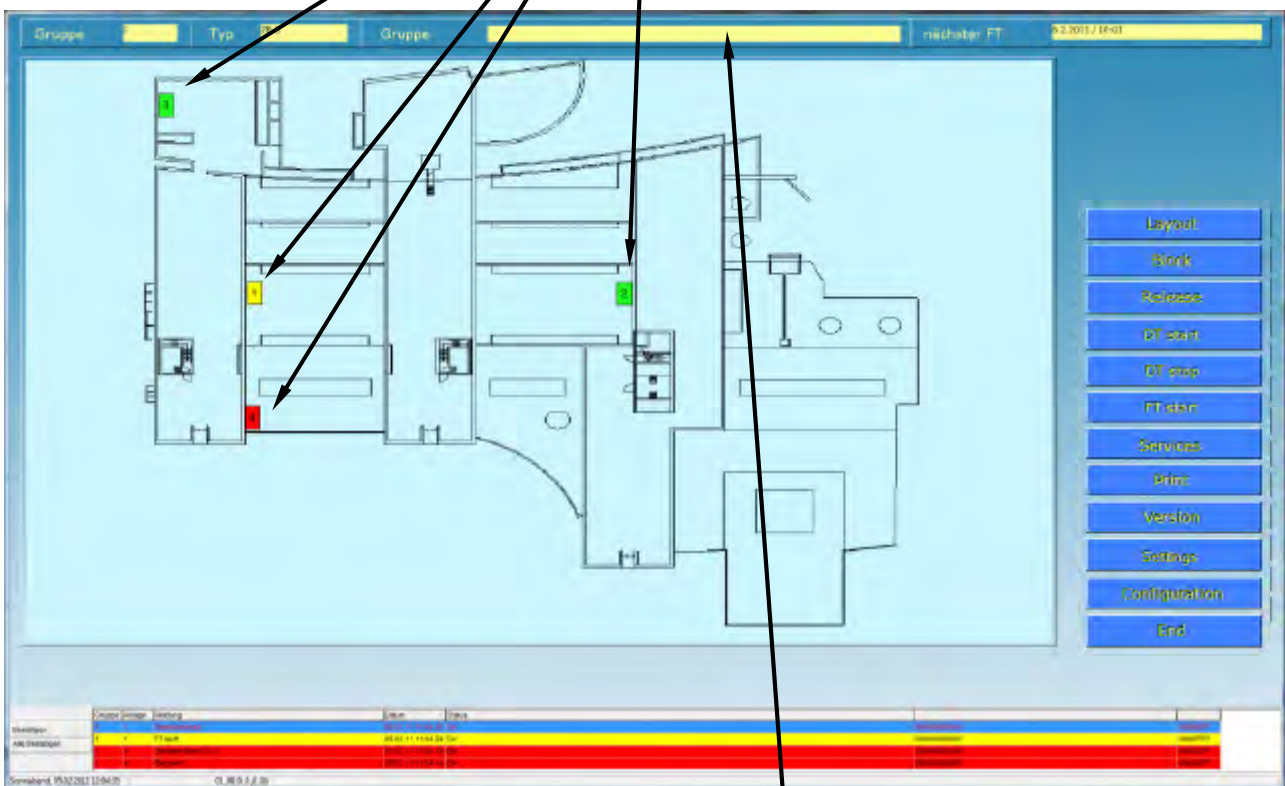
After positioning all of the system groups, programming can be exited with 'Save' and 'Exit'. The main group screen is now displayed with the created graphic. The system groups display the status via colours, e.g.

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.

12.1.4.1 Layout programming of devices via .dwg/.dxf import

Procedure identical to Section 12.1.3.2

12.2 Layout programming of luminaires

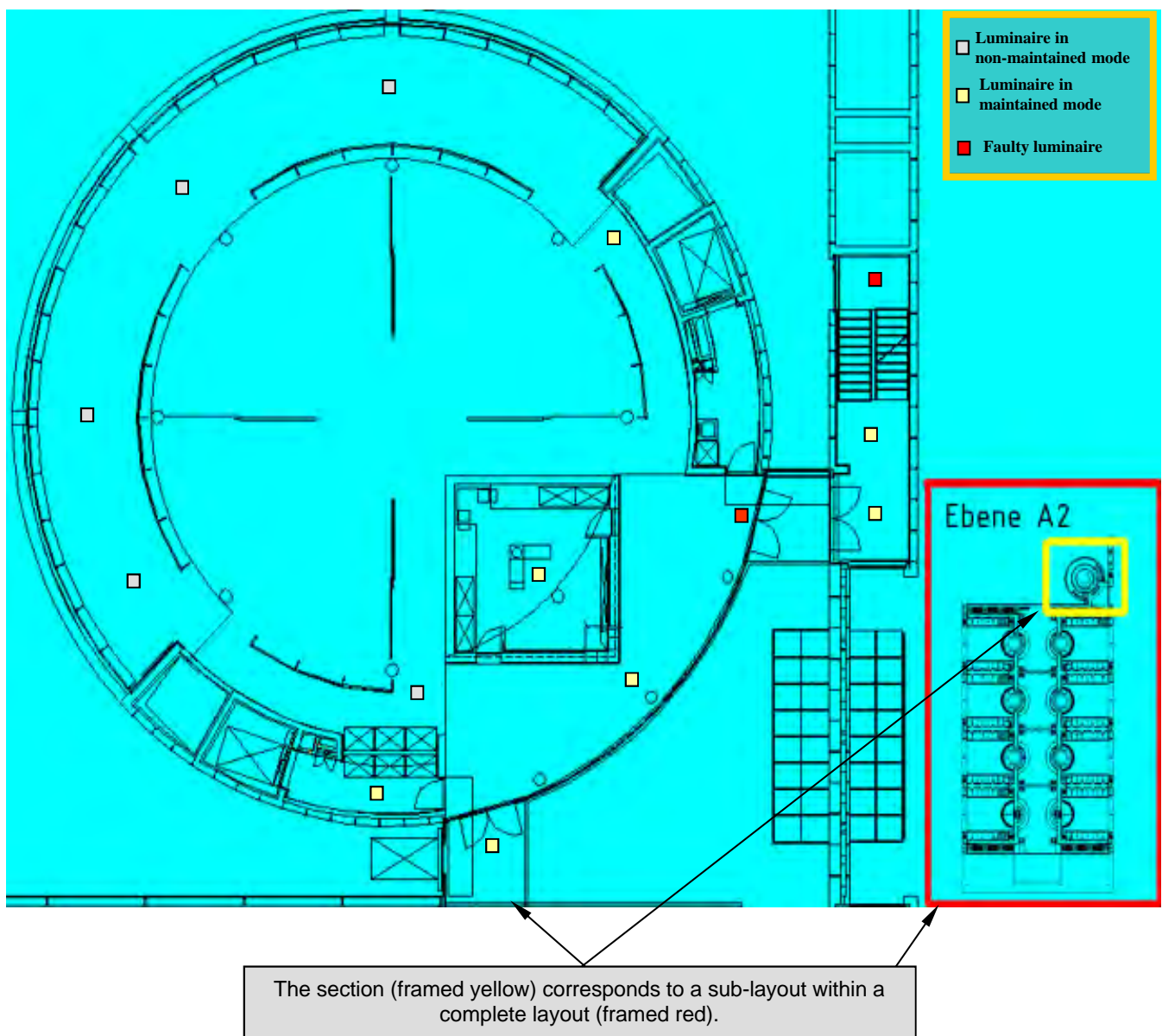
12.2.1 General information on layout programming of luminaires

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 2007) 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:



12.2.2 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.

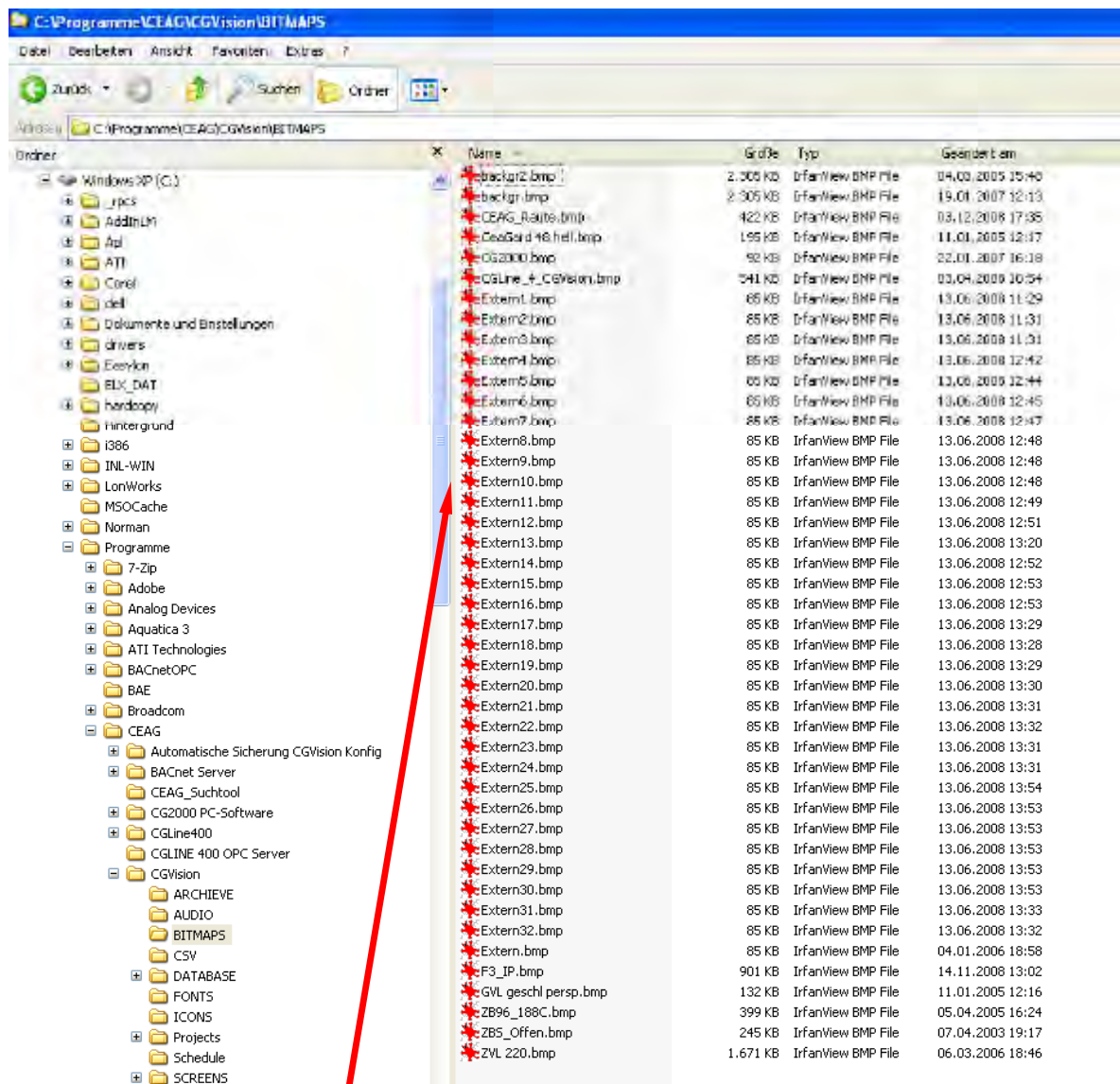
For better orientation it is recommended to name images according to location and circuit, e.g. for a circuit of a circuit change-over module in rack 1, position 7, circuit 1 with location in Hall 2, upper storey.

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:

Circuit configuration (Group 01 / System 01)

SKU: 1/4 Circuit: 1 SKU-Type: SKU CG-S 2x3A

Name: Circuit 1
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

Switch 2:
☒ Maintained light (battery)
☐ LON-switch
☐ Function keys
☐ Option inputs
☐ DLS
☐ TLS
☐ 3 phase monitor

install. power:
 VA
 W

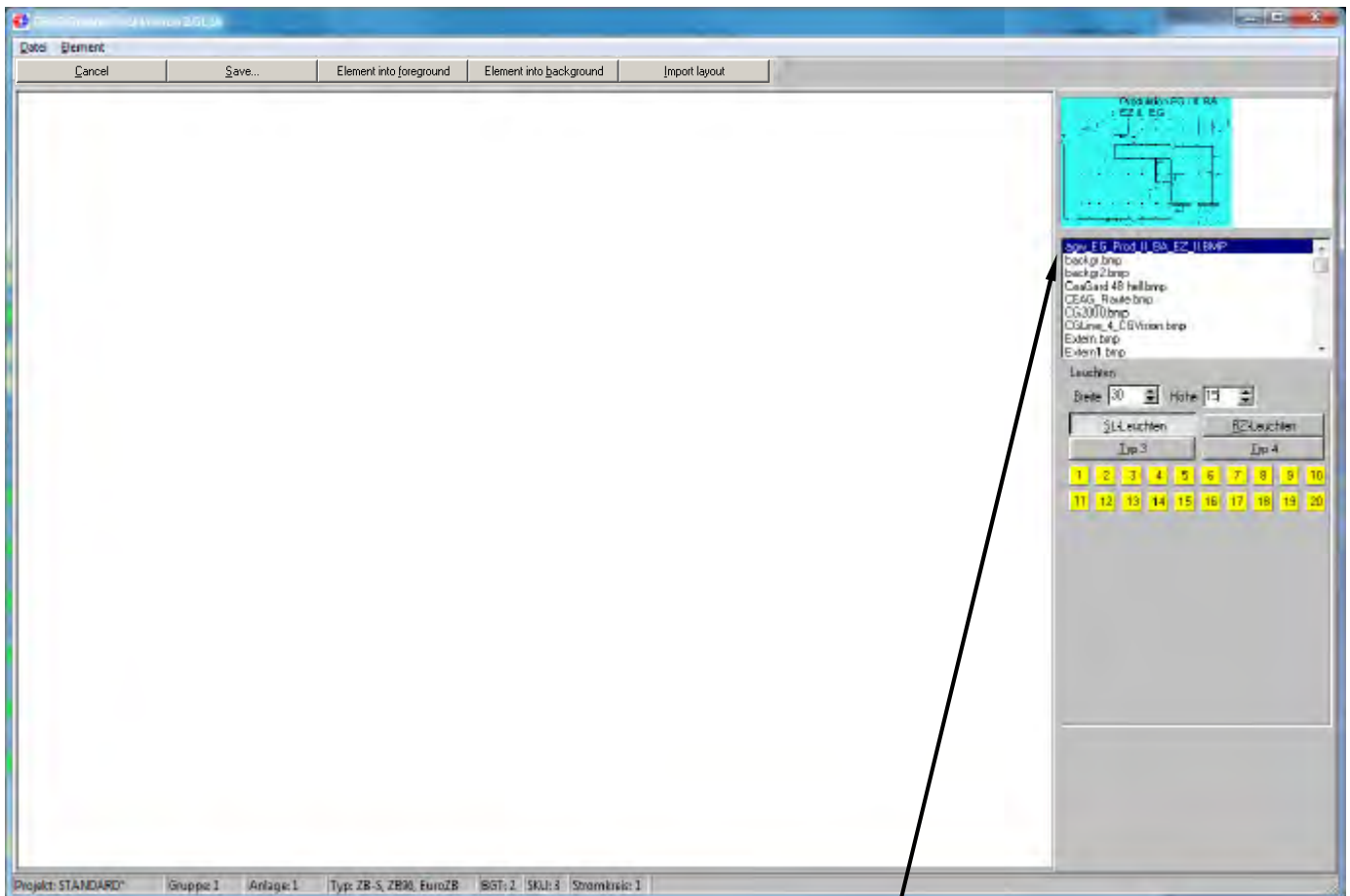
Luminaire: Survey

<input checked="" type="checkbox"/>	1	SL 21011 CG-S
<input checked="" type="checkbox"/>	2	SL 21011 CG-S
<input checked="" type="checkbox"/>	3	RZ 51011 CG-S PU
<input checked="" type="checkbox"/>	4	RZ 55011 CG-S PL
<input checked="" type="checkbox"/>	5	SL 55011 CG-S
<input checked="" type="checkbox"/>	6	RZ 51011 CG-S PR
<input checked="" type="checkbox"/>	7	RZ 51011 CG-S PL
<input checked="" type="checkbox"/>	8	SL 55011 CG-S
<input checked="" type="checkbox"/>	9	SL 55011 CG-S
<input checked="" type="checkbox"/>	10	RZ 55011 CG-S PL
<input type="checkbox"/>	11	SKU1/4 CIR1 LUM11
<input type="checkbox"/>	12	SKU1/4 CIR1 LUM12
<input type="checkbox"/>	13	SKU1/4 CIR1 LUM13
<input type="checkbox"/>	14	SKU1/4 CIR1 LUM14
<input type="checkbox"/>	15	SKU1/4 CIR1 LUM15
<input type="checkbox"/>	16	SKU1/4 CIR1 LUM16
<input type="checkbox"/>	17	SKU1/4 CIR1 LUM17
<input type="checkbox"/>	18	SKU1/4 CIR1 LUM18
<input type="checkbox"/>	19	SKU1/4 CIR1 LUM19
<input type="checkbox"/>	20	SKU1/4 CIR1 LUM20

Layout delete layout

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

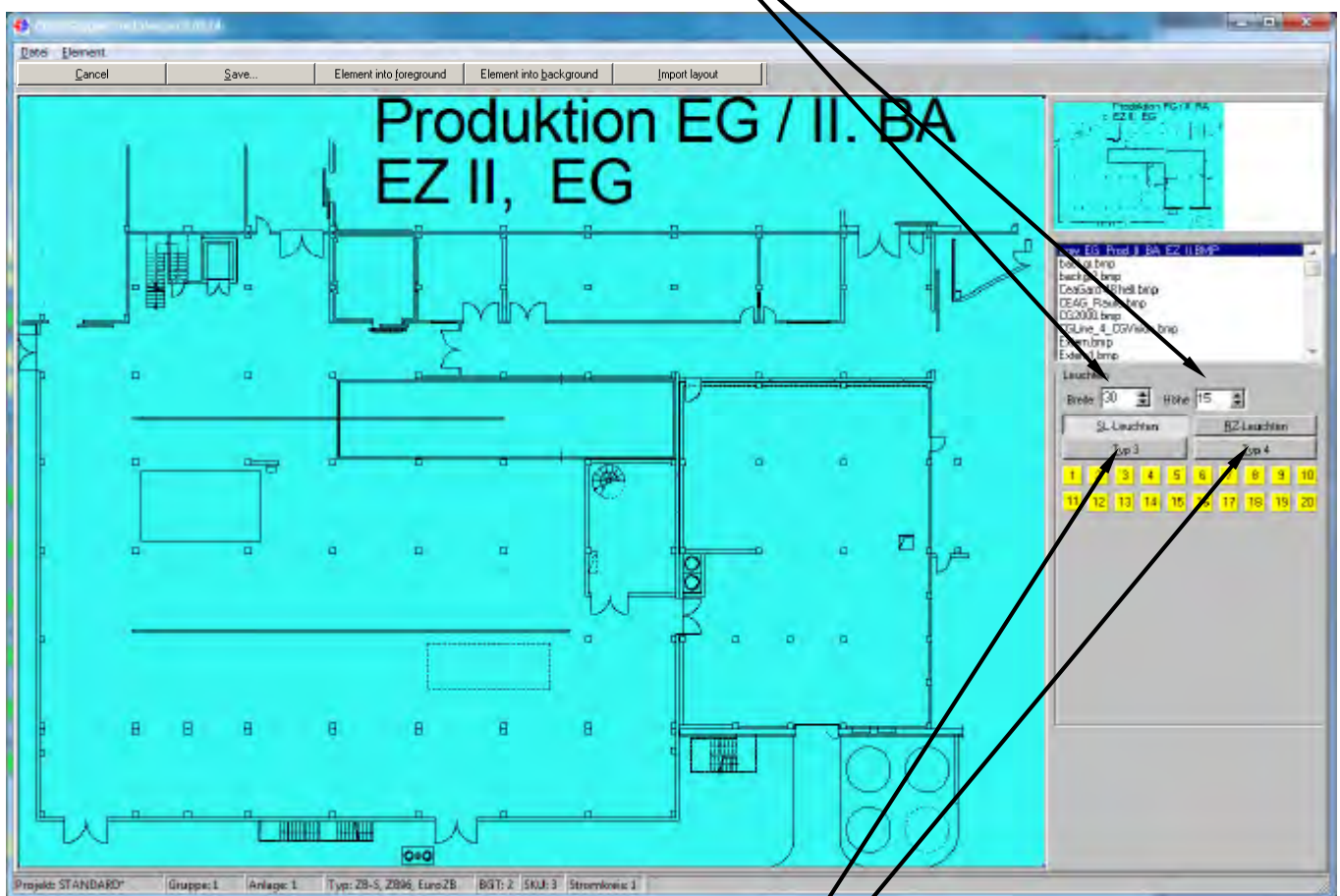
The following window opens:



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.

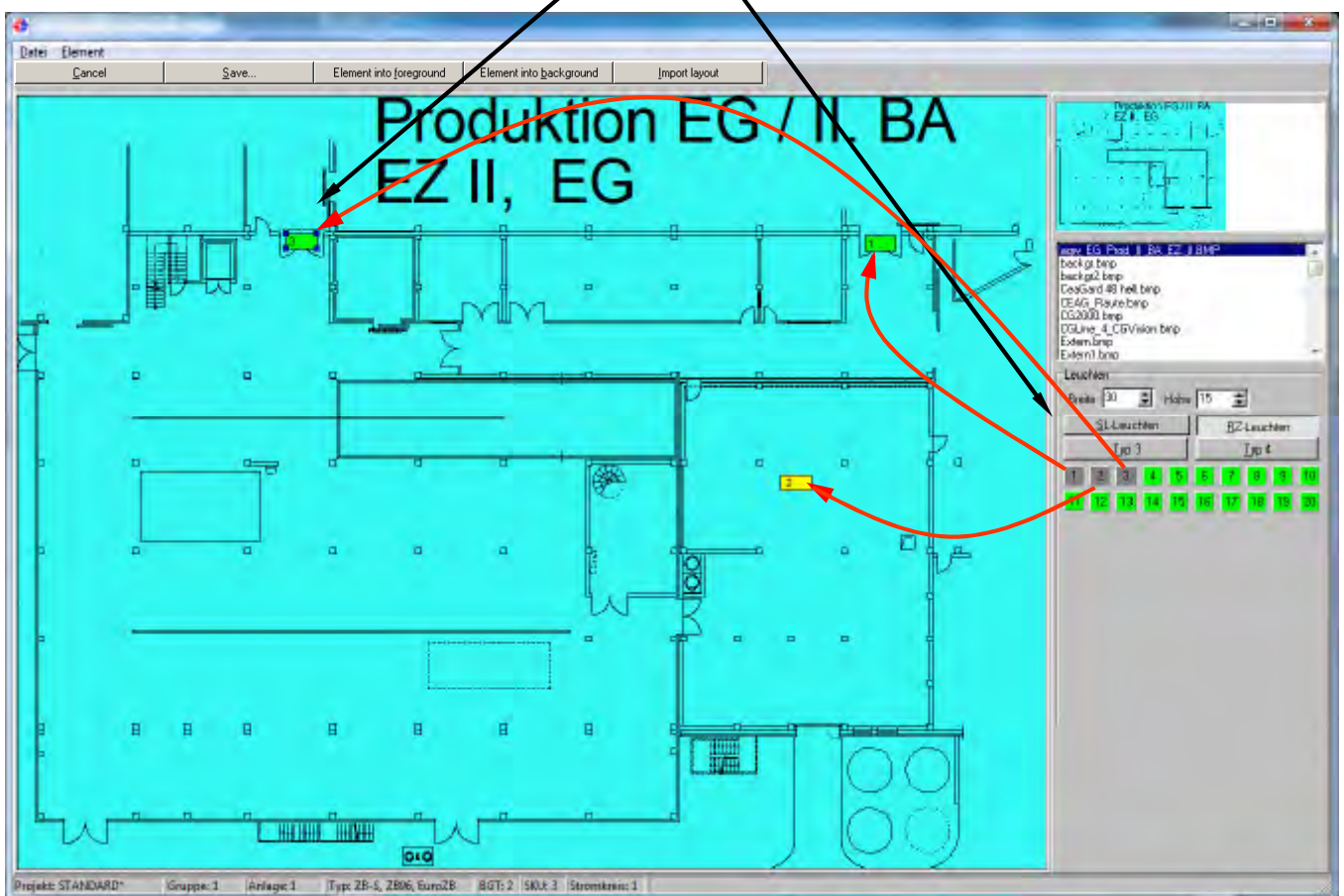
Using the selection fields, the 'width' and 'height' of the luminaires can be set before positioning the luminaires to achieve optimal size for the corresponding layout template. This should be tested initially. We recommend a width of 10-20 pixels and a height of 7-15 pixels.



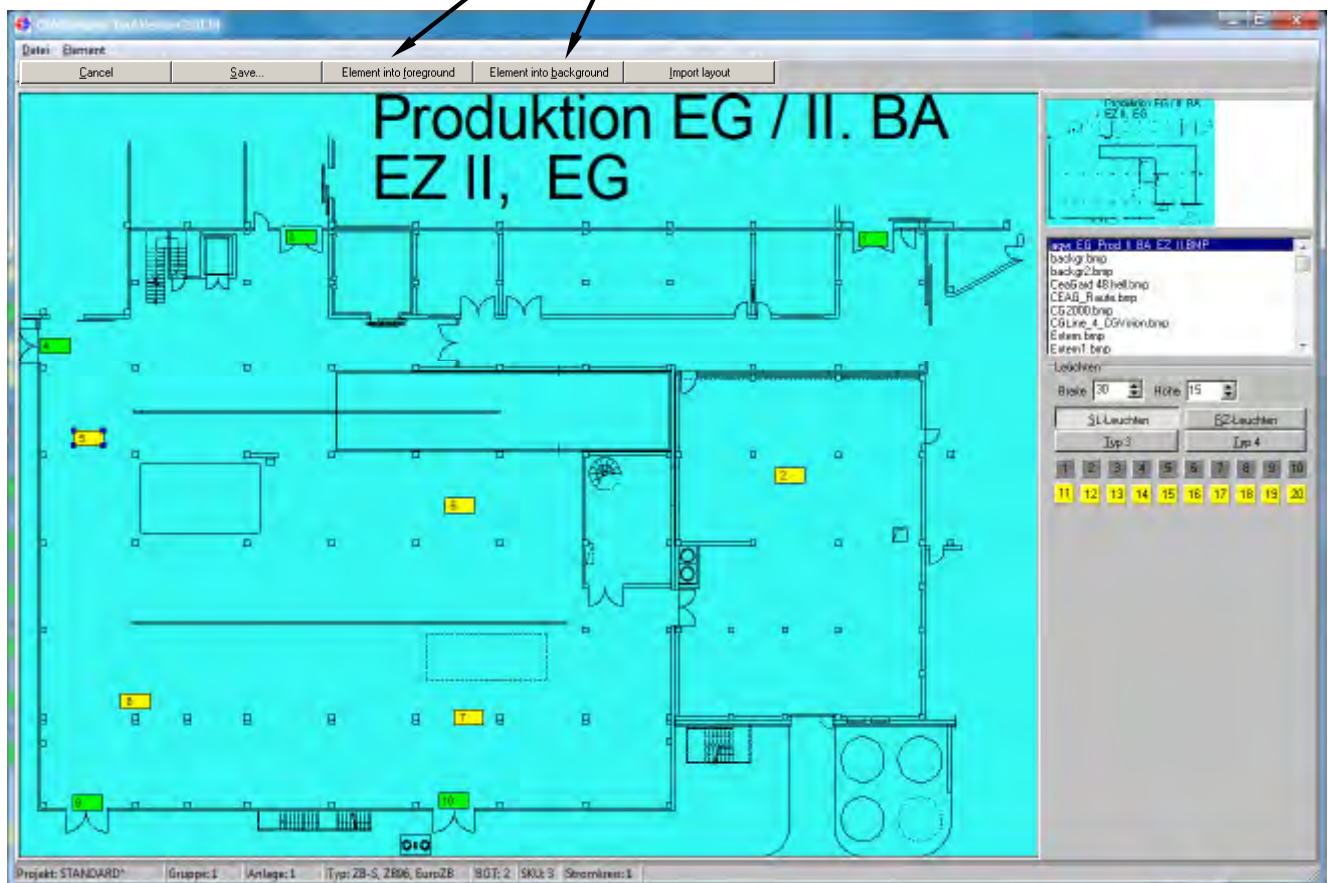
You can select between safety luminaires and escape sign luminaires via the 'SL luminaires' and 'ES luminaires' buttons. The safety luminaires are displayed normally in the layout later, and the escape sign luminaires as green pictograms.

After implementing the above pre-settings the luminaires can then be positioned.

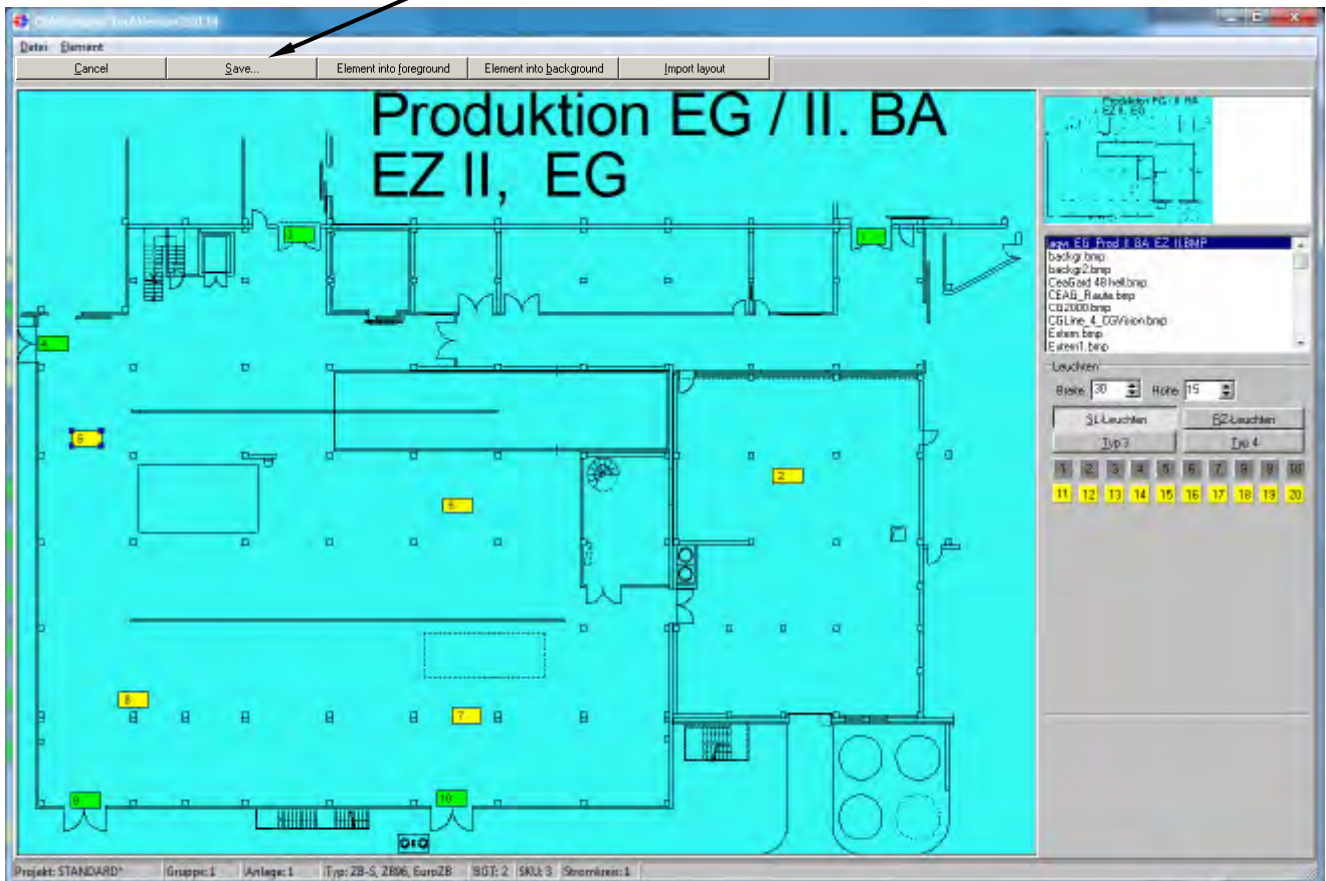
The luminaires can now be placed into their positions in the layout sequentially with pressed mouse button. Corrections can be made at any time by marking the luminaire (four blue corners) and moving with pressed mouse button. Luminaires can be deleted by pressing the 'Del' button; deleted luminaires 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.

COOPER **CEAG Notlichtsysteme GmbH - COVision V5.30** **CEAG**

Group: Sample group Next FT: 4.6.2012 15:00 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 Circuit: 1

CG-monitoring
 Normal Operation
 Delay on mains ret.

ISO +
 ISO -
 Fuse DC
 Fuse AC
 Overload
 Current i-dm

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!		

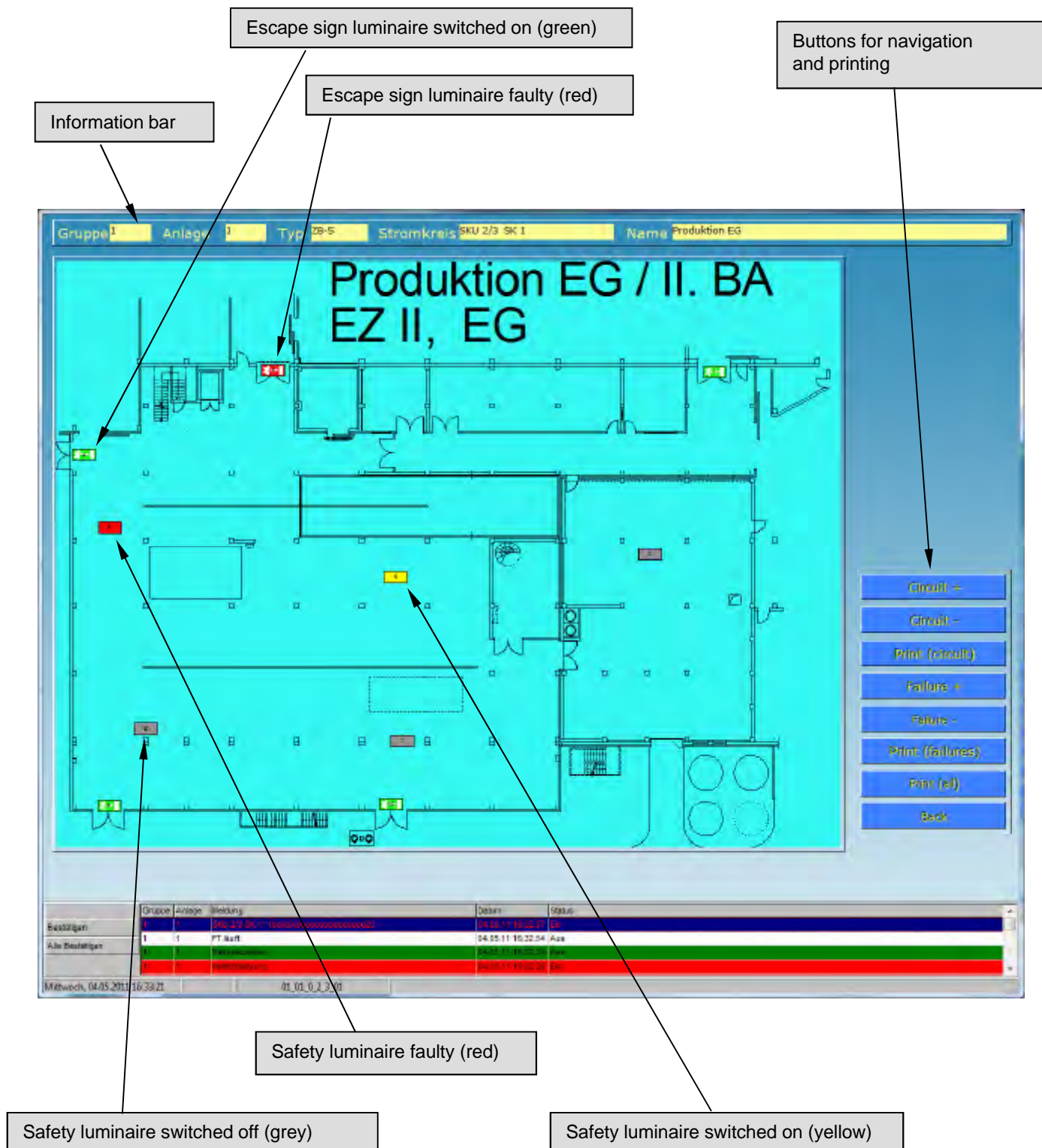
Layout
 Print
 Configuration
 Back

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

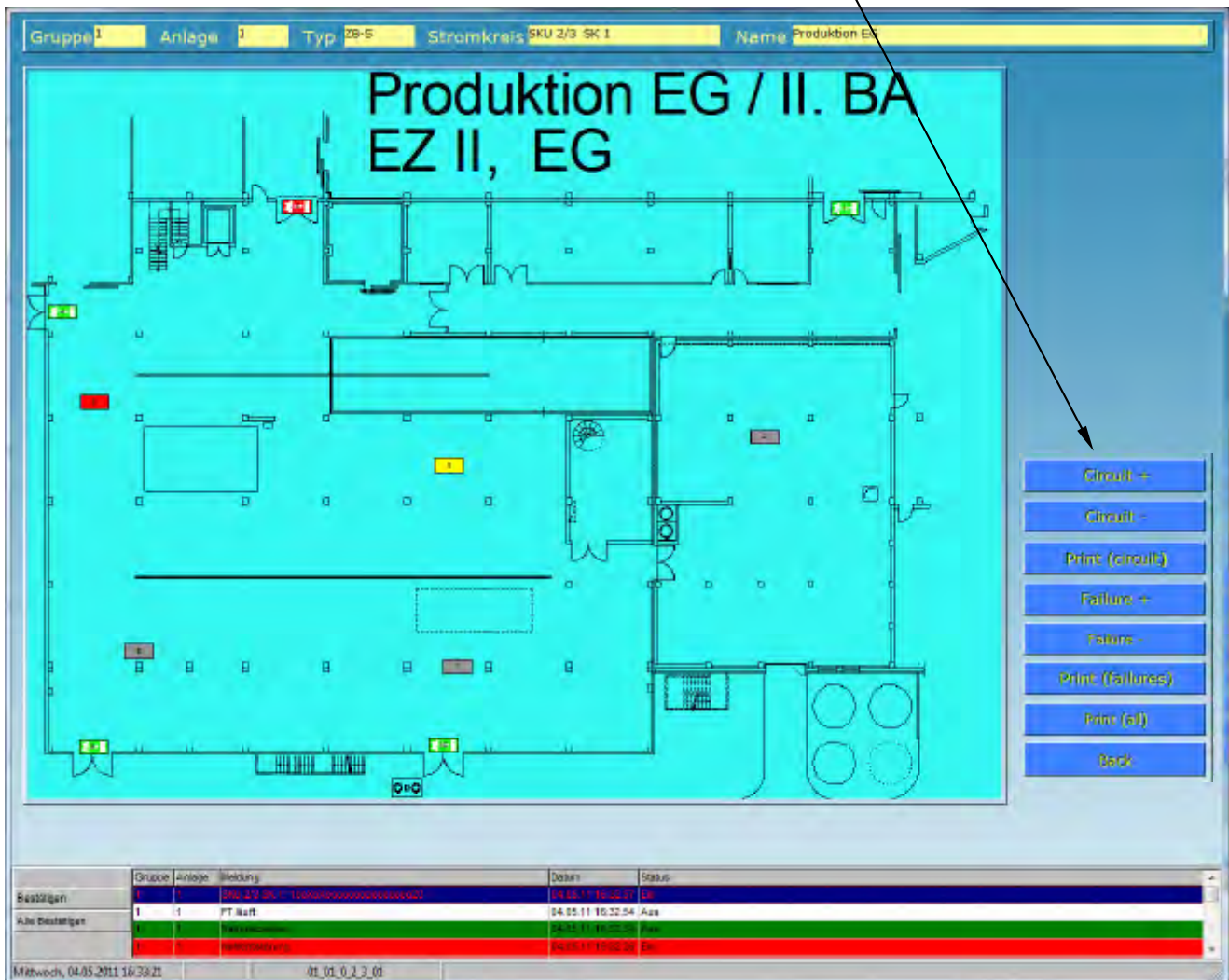
Group	System	Message	Date	Status
Acknowledge		FT running	01.06.12 12:45:31	Off
Acknowledge all		System status	01.06.12 12:45:31	Off
		System status	01.06.12 12:45:31	Off

Friday, 01.06.2012 12:45:31 17

Variable display of luminaires in the layout

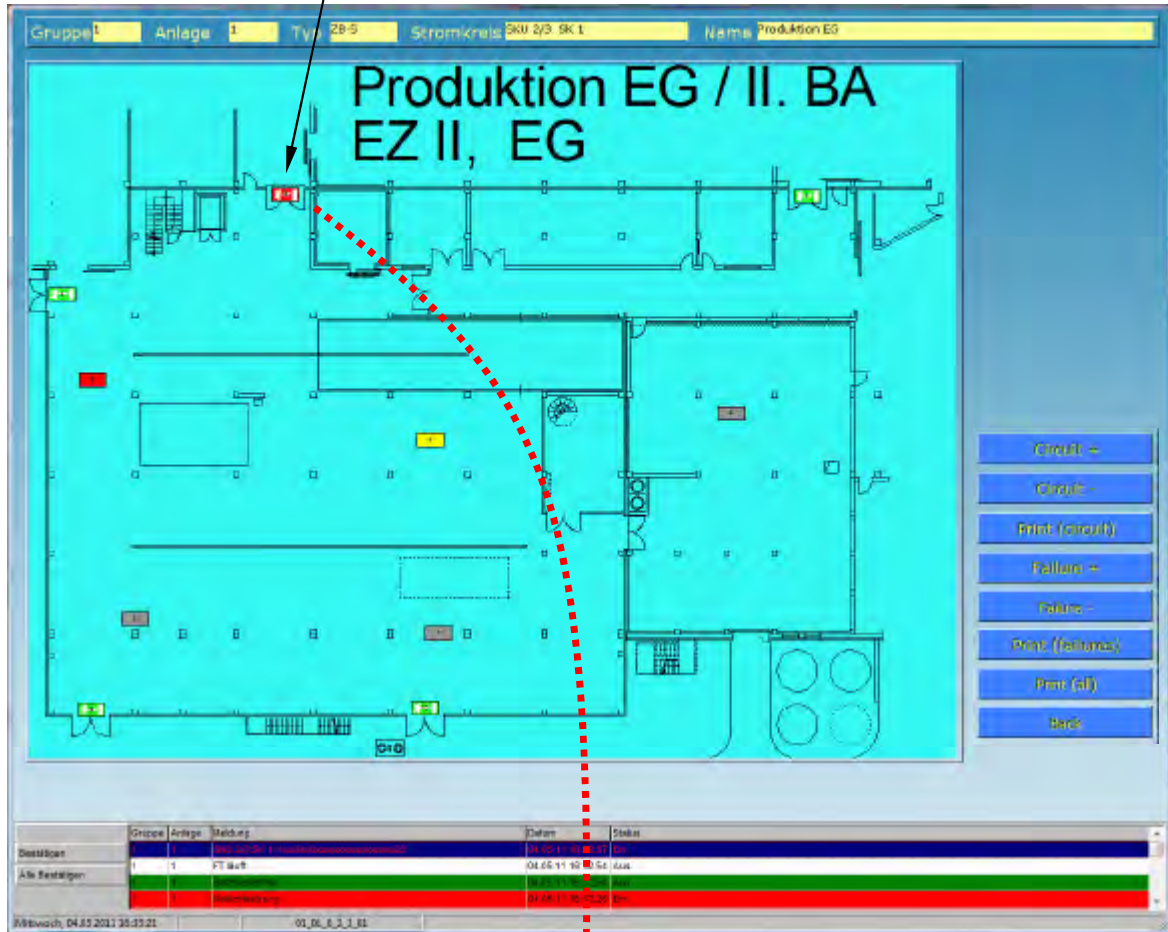


Button functions for navigation and printing possibilities



- a). 'Circuit +'
Calls up of the next circuit screen
- b). 'Circuit -'
Calls up of the previous circuit screen
- c). 'Print (circuit)'
Prints the luminaire status and layout image of the current circuit
- d). 'Fault +'
Calls up the next circuit screen with an existing luminaire fault
- e). 'Fault -'
Calls up the previous circuit screen with an existing luminaire fault
- f). 'Print (faults)'
Prints the luminaire status and layout images of the faulty circuits
- g). 'Print (all)'
Prints the luminaire status and layout images of all circuits
- h). 'Back'
Returns to circuit screen

Clicking a luminaire opens an information window with further information and functions



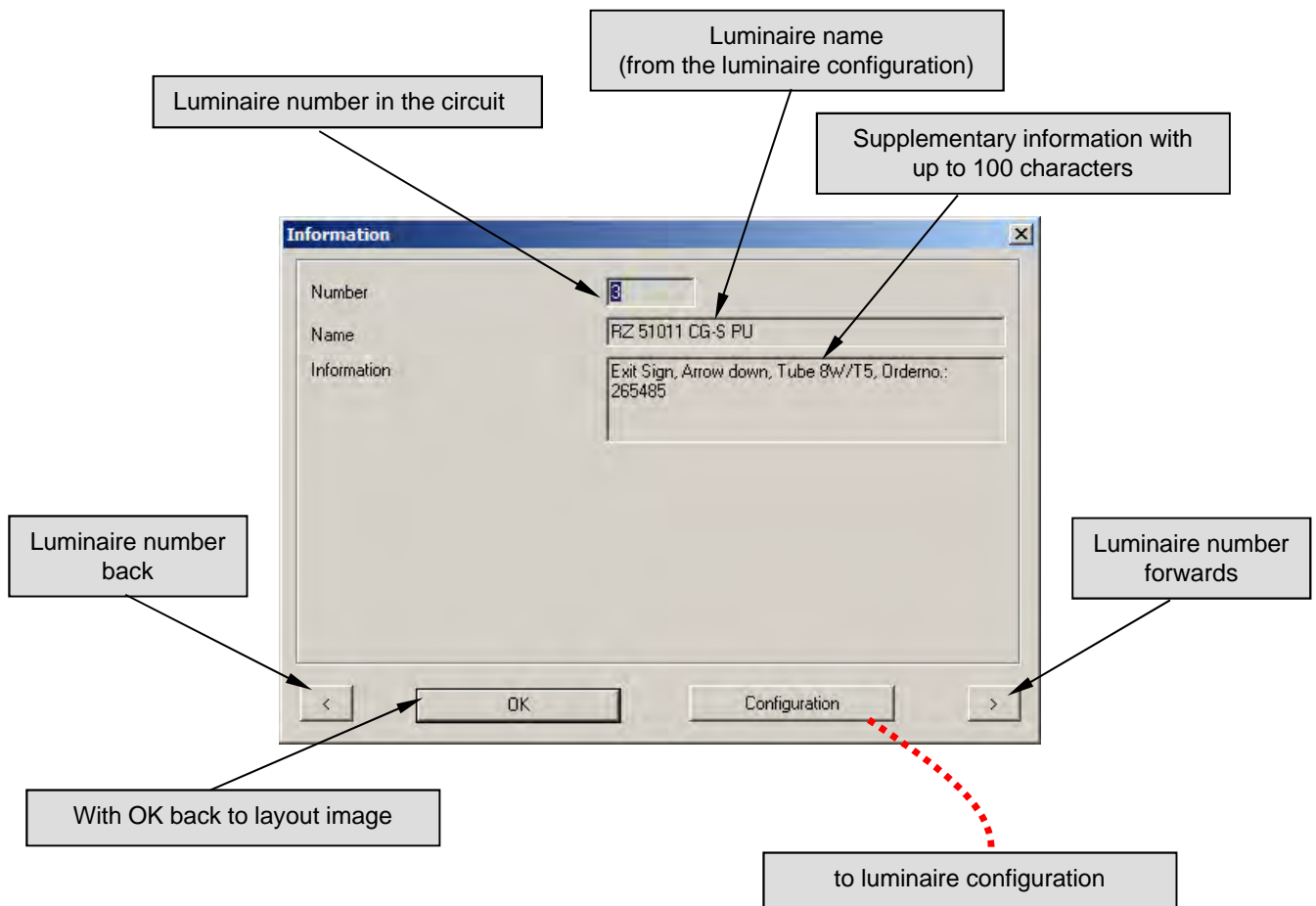
Information

Number: 8

Name: RZ 51011 CG-S PU

Information: Exit Sign, Arrow down, Tube 8W/T5, Orderno.: 265485

< OK Configuration >



The 'Luminaire configuration' dialog box contains the following fields and options:

- Luminaire:** A text field containing the value '3'.
- Name:** A text field containing 'RZ 51011 CG-S PU'.
- Information:** A text field containing 'Exit Sign, Arrow down, Tube 8W/T5, Orderno.: 265485'.
- Light Type Selection:**
 - ☐ With out CGS (maintained)
 - ☐ Non-maintained light
 - ☒ Maintained light
- Switch 1 Configuration:**
 - ☐ Timer 1
 - ☐ Timer 2
 - ☐ Timer 1+2
 - ☐ LON-switch (with a dropdown menu)
 - ☐ Function keys (with a dropdown menu)
 - ☐ Option inputs (with a dropdown menu)
 - ☐ DLS (with two dropdown menus)
- Switch 2 Configuration:**
 - ☒ No function
 - ☐ LON-switch (with a dropdown menu)
 - ☐ Function keys (with a dropdown menu)
 - ☐ Option inputs (with a dropdown menu)
 - ☐ DLS (with two dropdown menus)
- Buttons:** 'PC --> ZB-S', 'PC <-- ZB-S', and 'Cancel'.

Information about the luminaire or the switching assignment can be simply edited here.

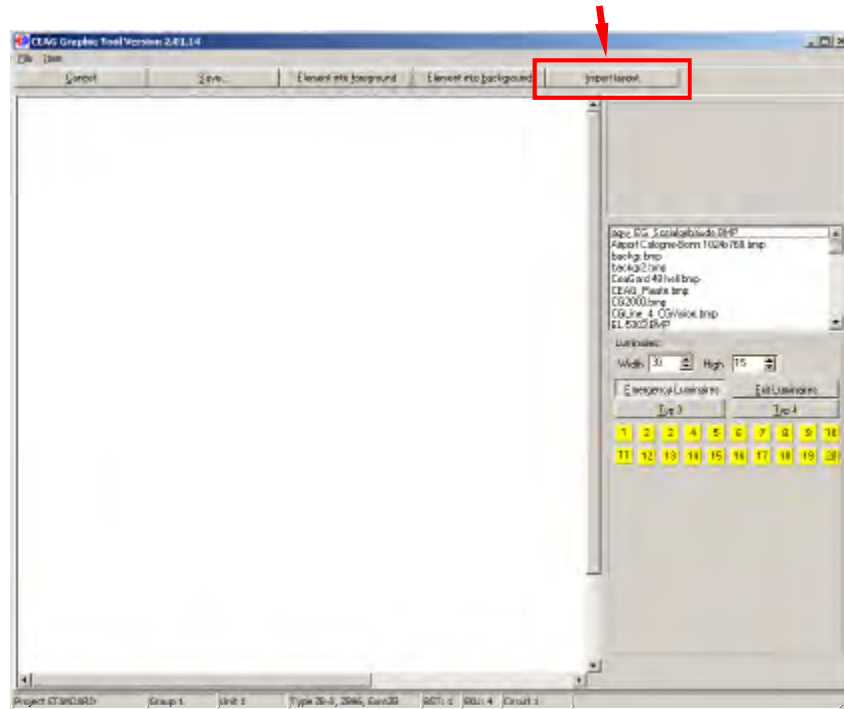
After modification, by clicking on the PC → ZB-S button the modification is implemented immediately and the layout is returned to.

12.2.3 Layout programming for luminaires via .dwg/.dxf import

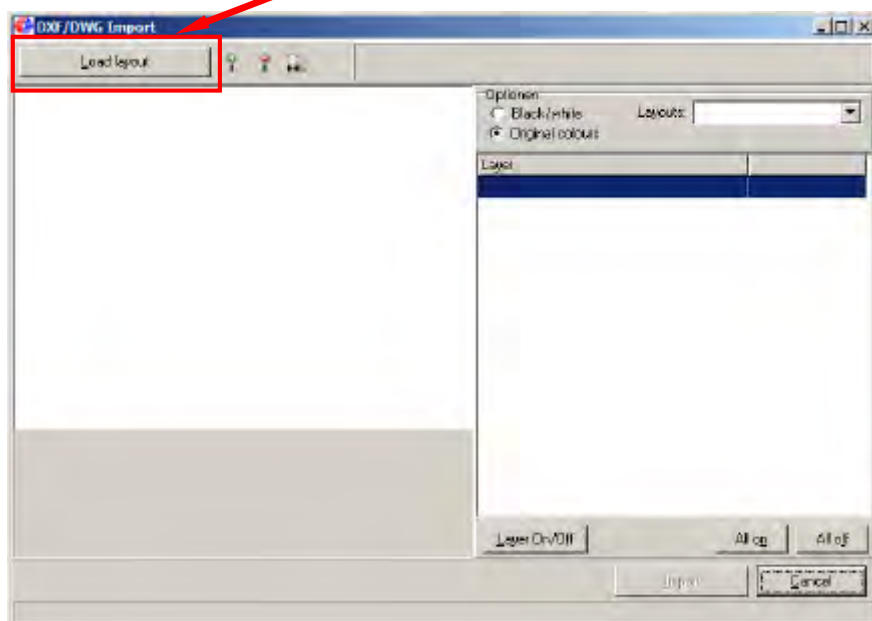
Note: .dwg/.dxf files to AutoCAD 2007 are supported.

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.

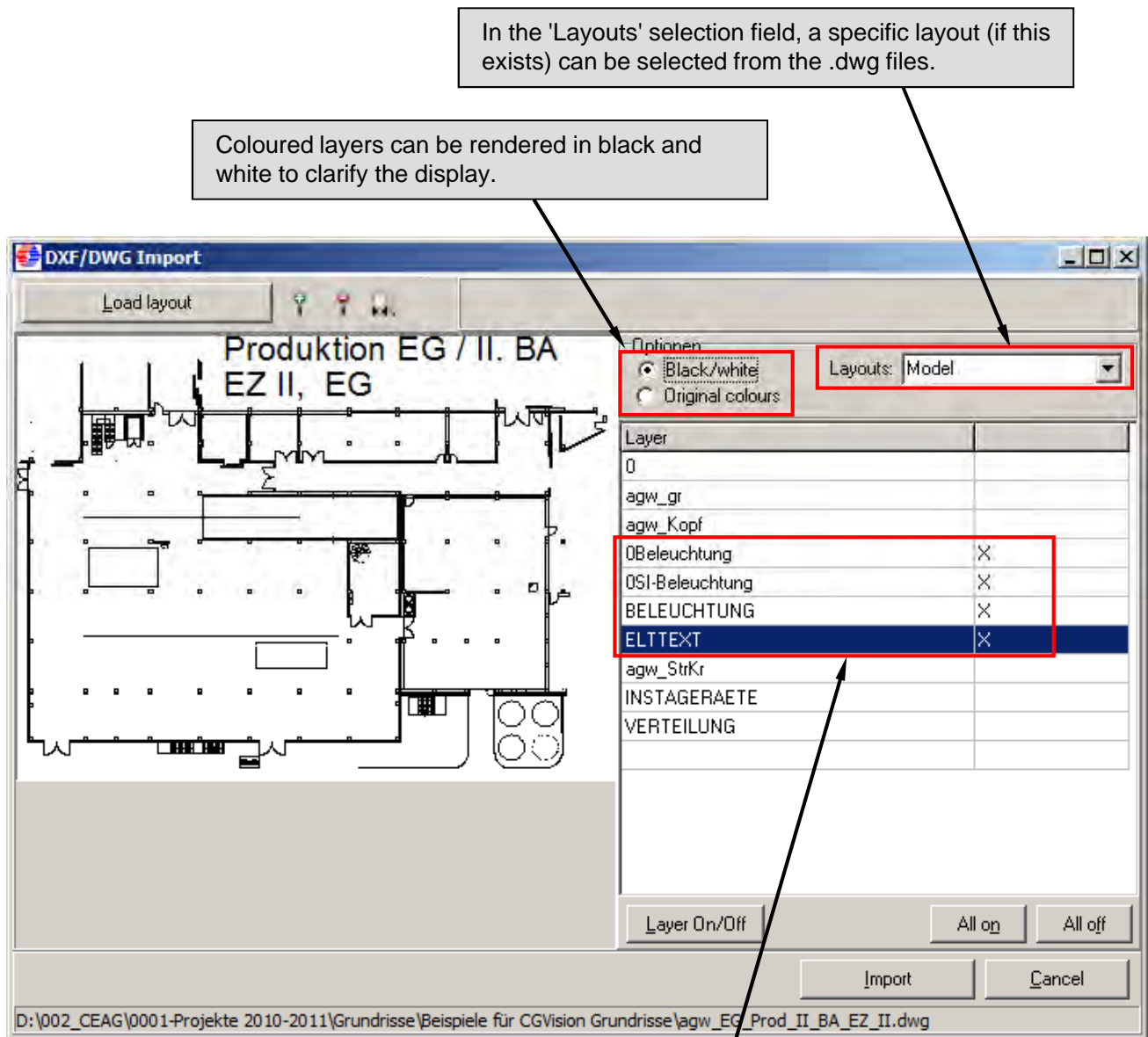
The import can be started with the graphics tool via the 'Drawing import' button:



The DXF/DWG import tool opens. .dxf/dwg drawings can now be read in via 'Import drawing':

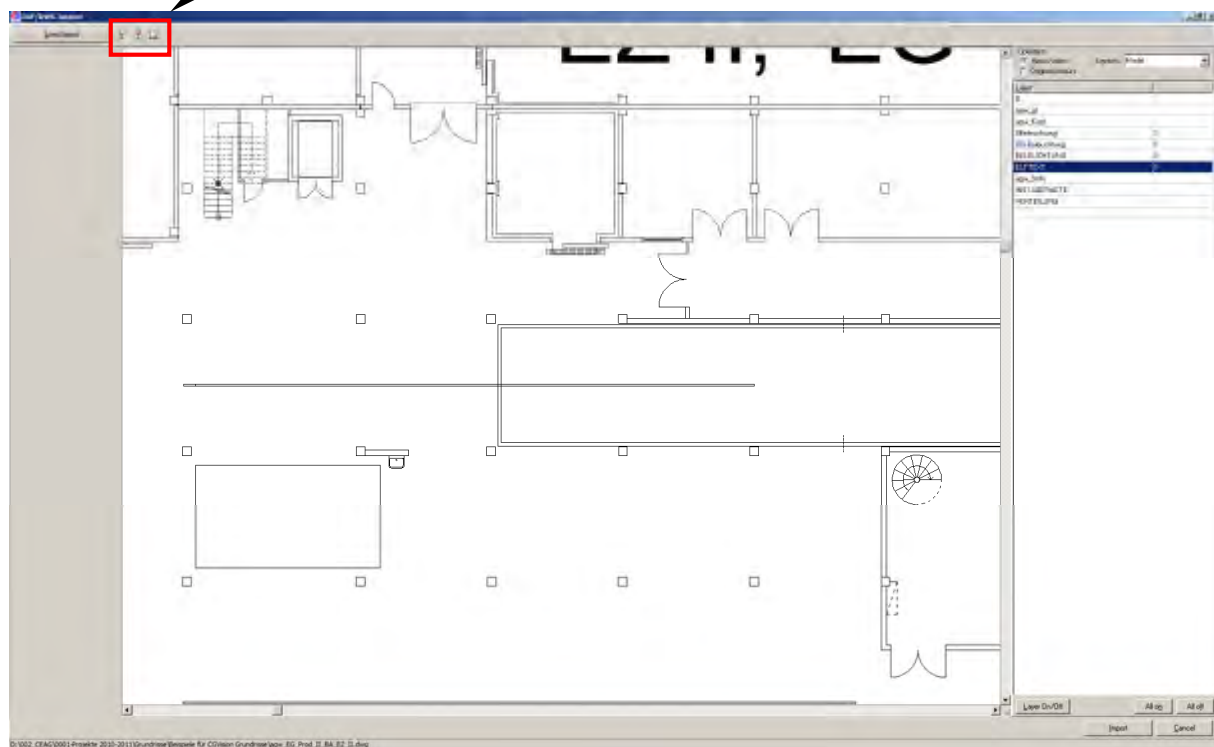


After selecting and opening the correct file, the drawing is displayed in the import tool in an overview.

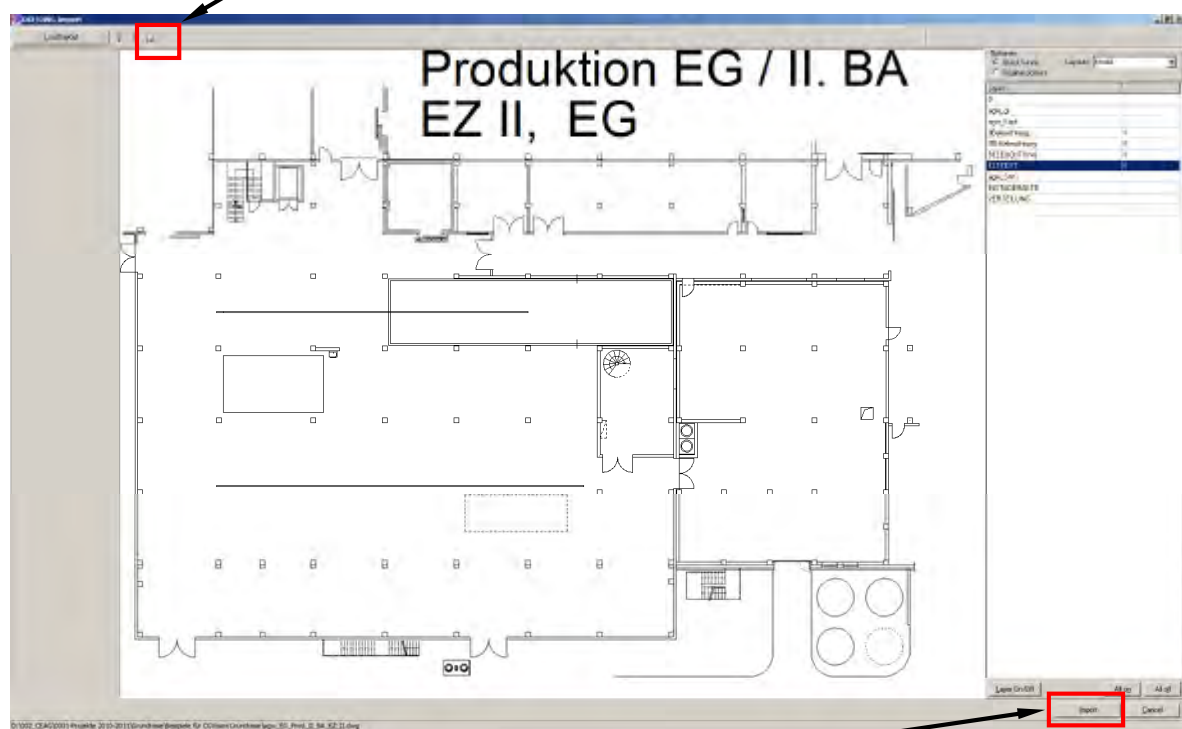


All available layers are listed in the area on the right, and these can be hidden or displayed via double clicking or via 'Layer On/Off'.
The hidden layers are designated with an X.

The drawing can be zoomed into or reduced in size with Image magnifier + or Image magnifier –.

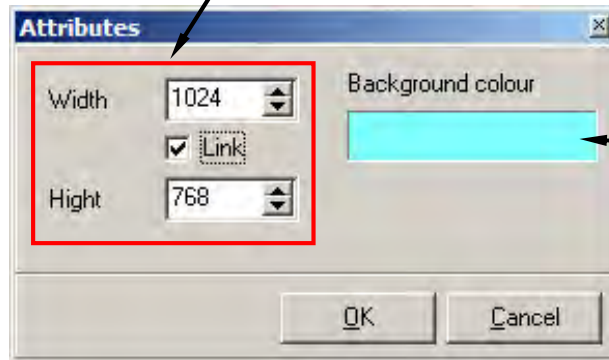


The complete drawing is displayed again with the right image magnifier symbol.



The suitable image is then loaded via 'Import'.

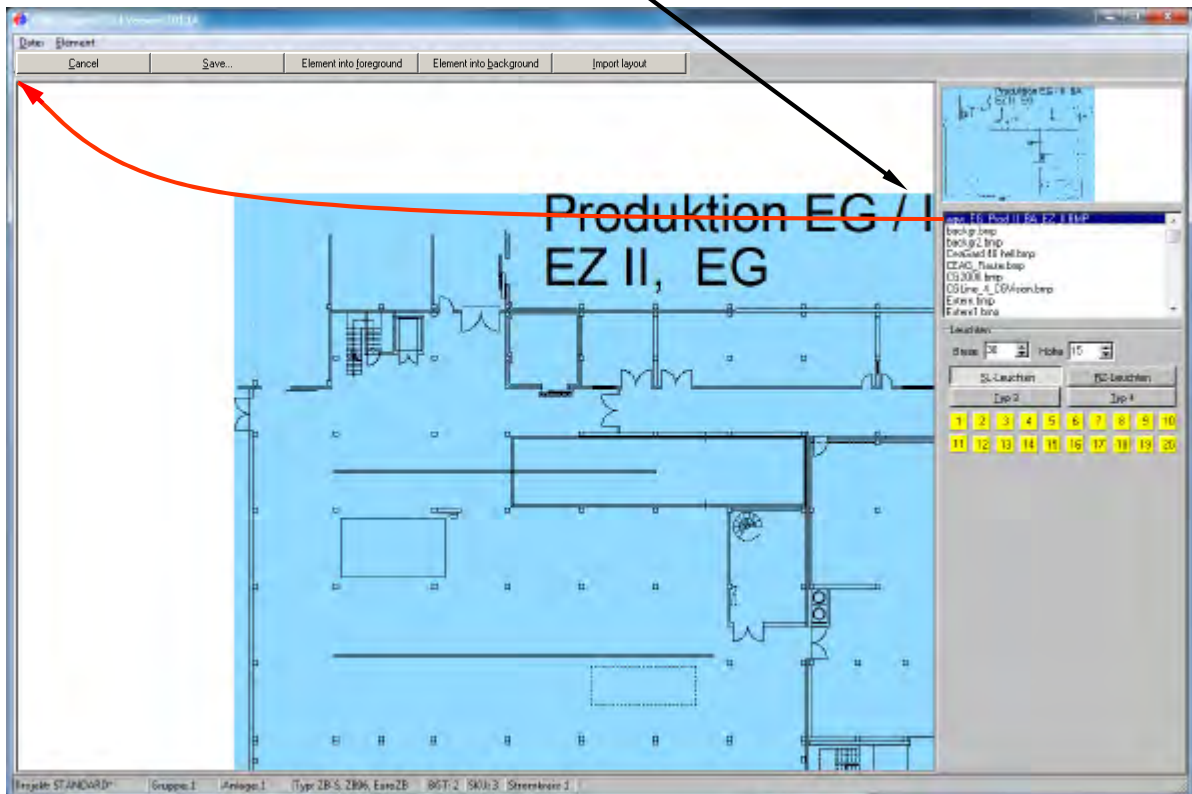
The size of the image is then queried. 1024 x 768 should be specified if possible because the layout programming is designed for this size. When the width is modified, the height is also modified if 'Link' is activated.



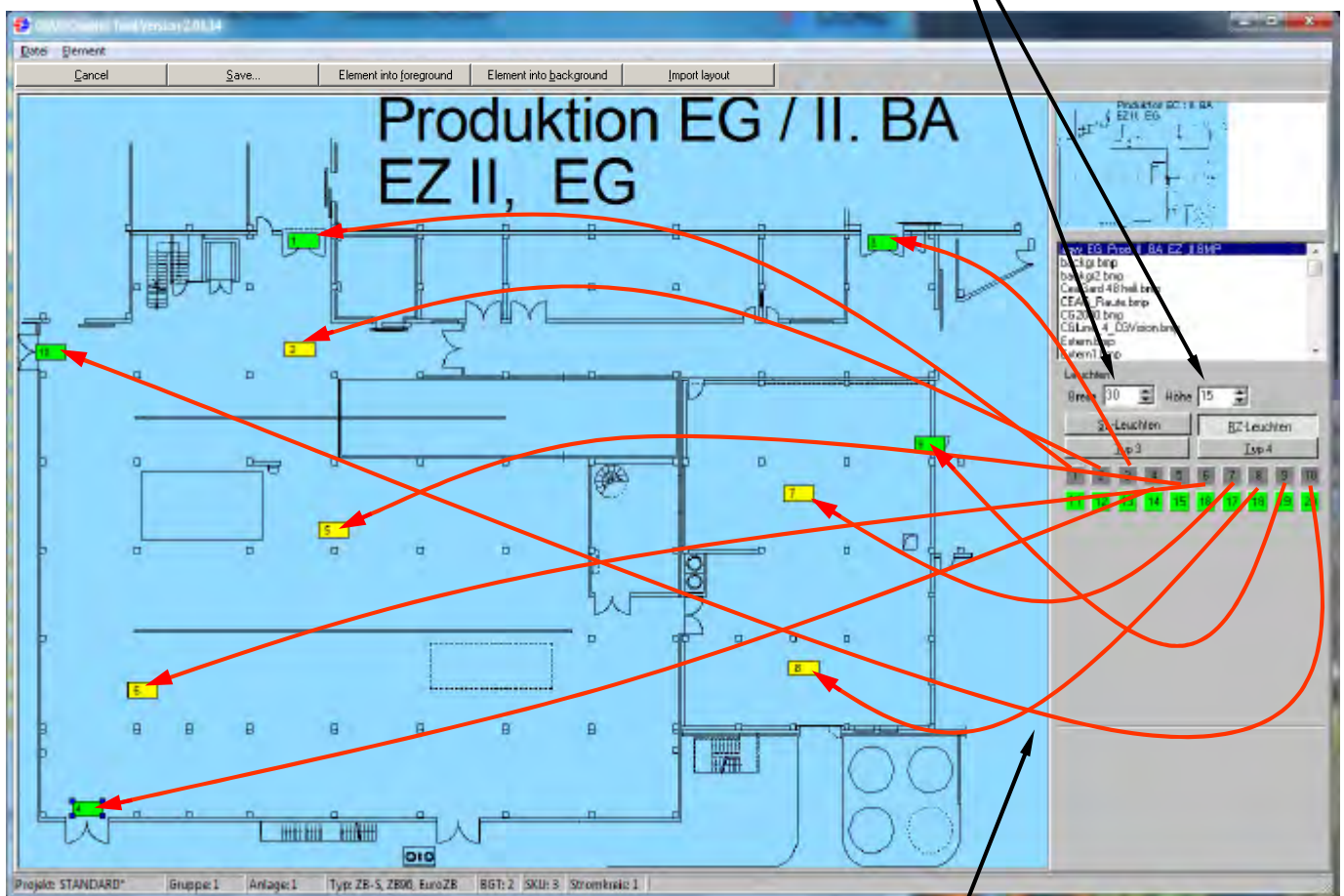
The image can be colour-highlighted for better contrast during import via 'Background colour'. (For this, the black/white option must have been specified previously).

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.

Group	System	Message	Date	Status
1	1	MSG: 114 OK 2 10000000000000000000	01.06.2012 14:10:36	On
1	1	MSG: 114 OK 1 10000000000000000000	01.06.2012 14:10:36	On
1	1	FT running	01.06.2012 14:10:36	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

Escape sign luminaire switched on (green)

Escape 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	Leistung	Datum	Status
Bestätigen	1	1	1000W/24V	2008-11-12 12:00:00	On
Able Bestätigen	1	1	1000W/24V	2008-11-12 12:00:00	On
	1	1	1000W/24V	2008-11-12 12:00:00	On
	1	1	1000W/24V	2008-11-12 12:00:00	On

Donnerstag, 05.05.2010 10:03:30 01_01_0_2_3_01

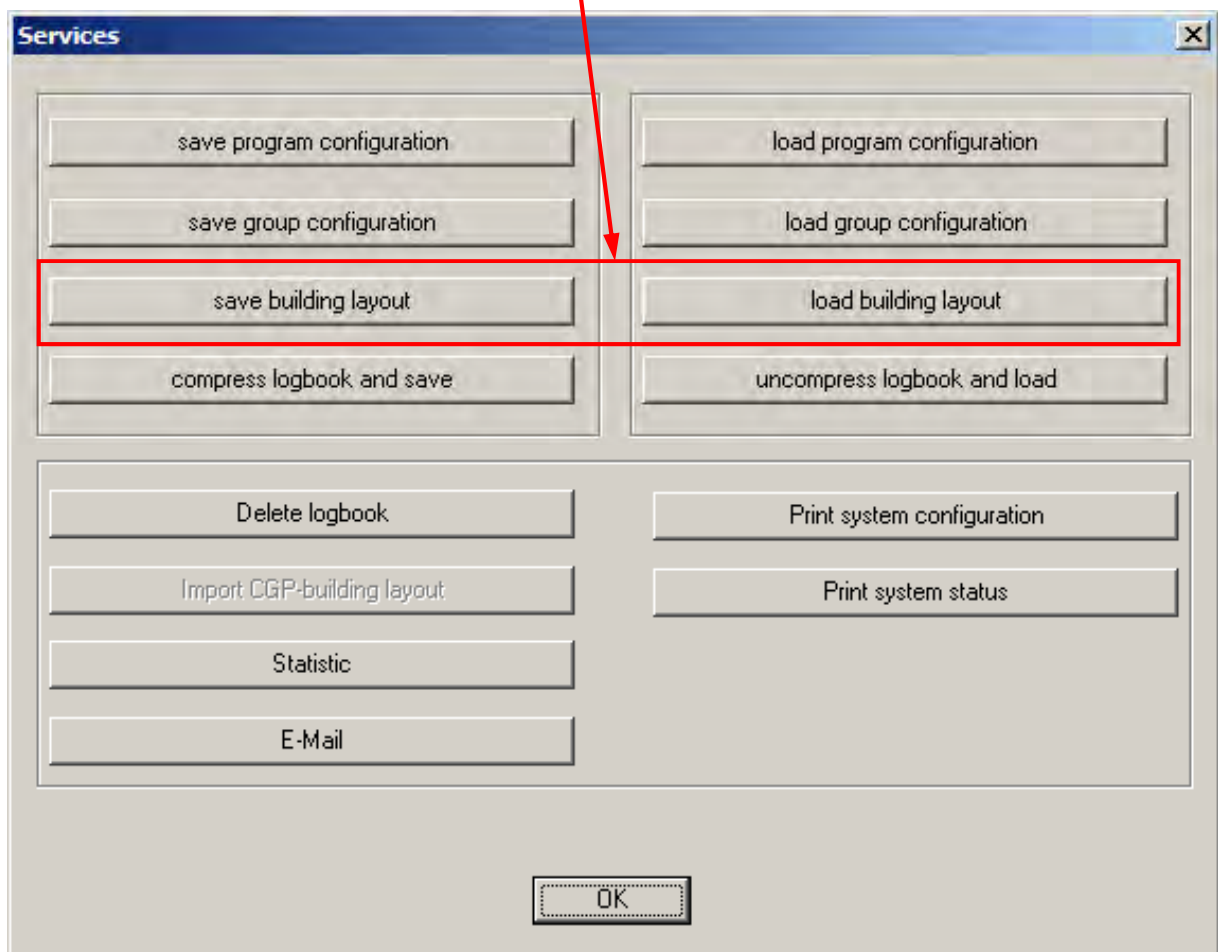
Safety luminaire switched on (yellow)

Safety luminaire faulty (red)

Safety luminaire switched off (grey)

12.4 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.



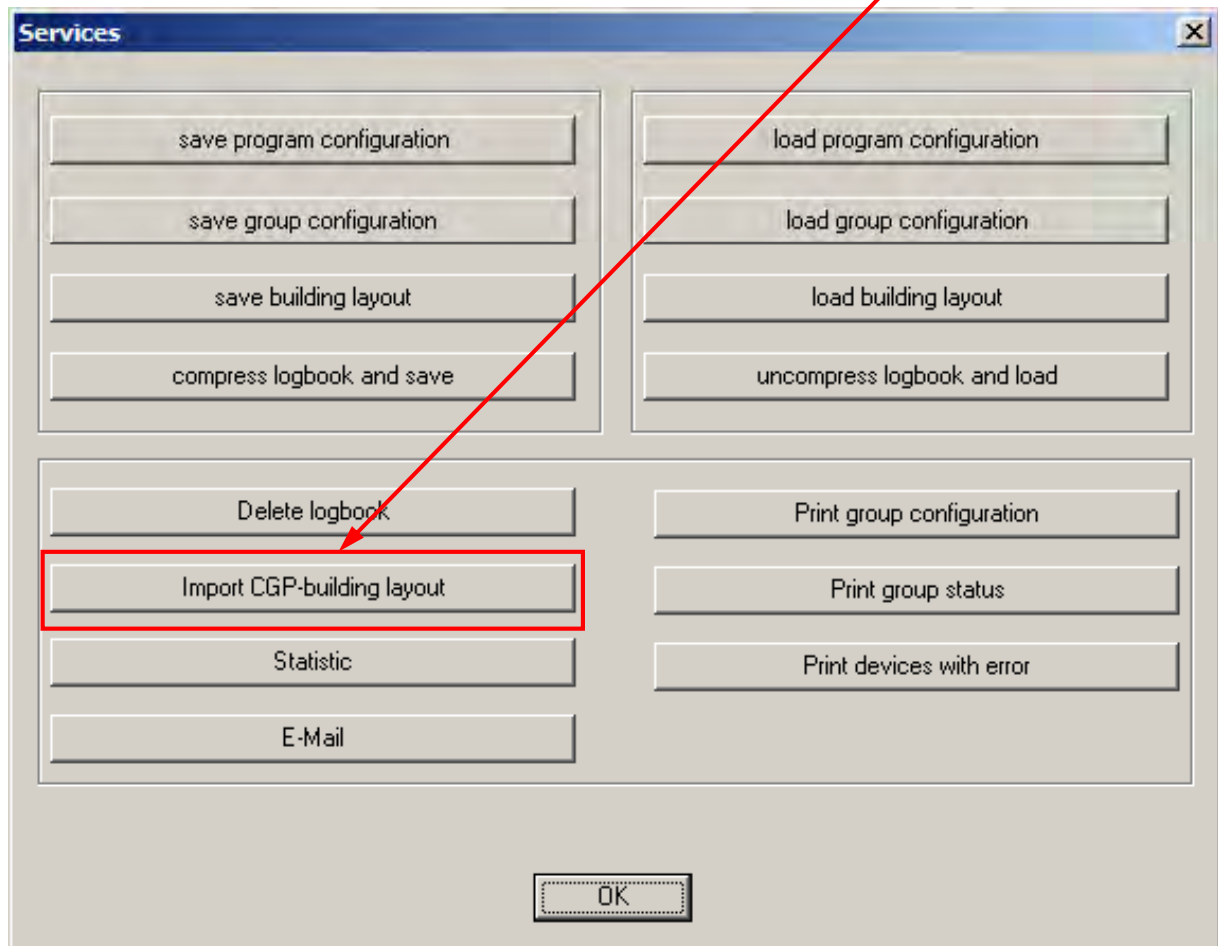
12.5 CGP data import of a layout programming

When replacing a CGP with an existing layout programming by CGVision, it is possible to import the existing CGP layout programming into CGVision.

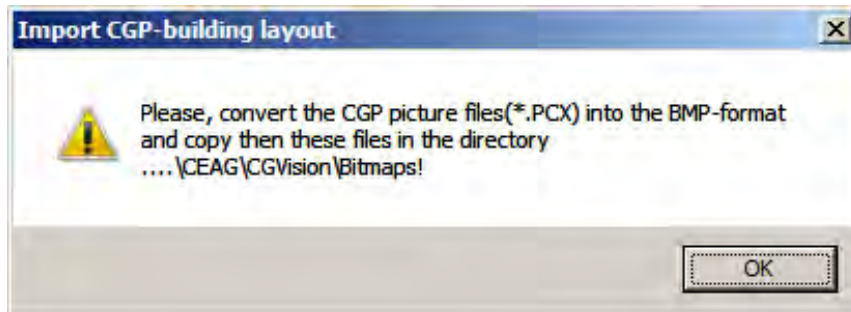
Setting up:

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.

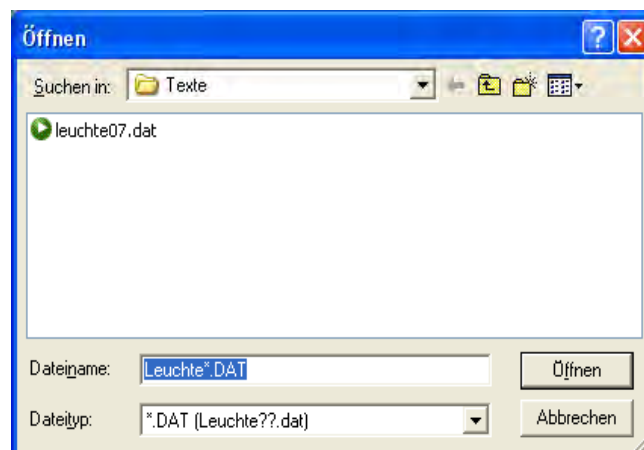


4. After clicking on the button the following message is displayed:



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.

Notes:



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- Subject to technical modifications -



Section 13

F3 interface for connecting an F3 remote indication

13 F3 interface

13.1 General information

Section 13 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.

13.2 F3 interface (I/O interface connection box)

13.2.1 General information about the F3 interface (I/O interface connection box)

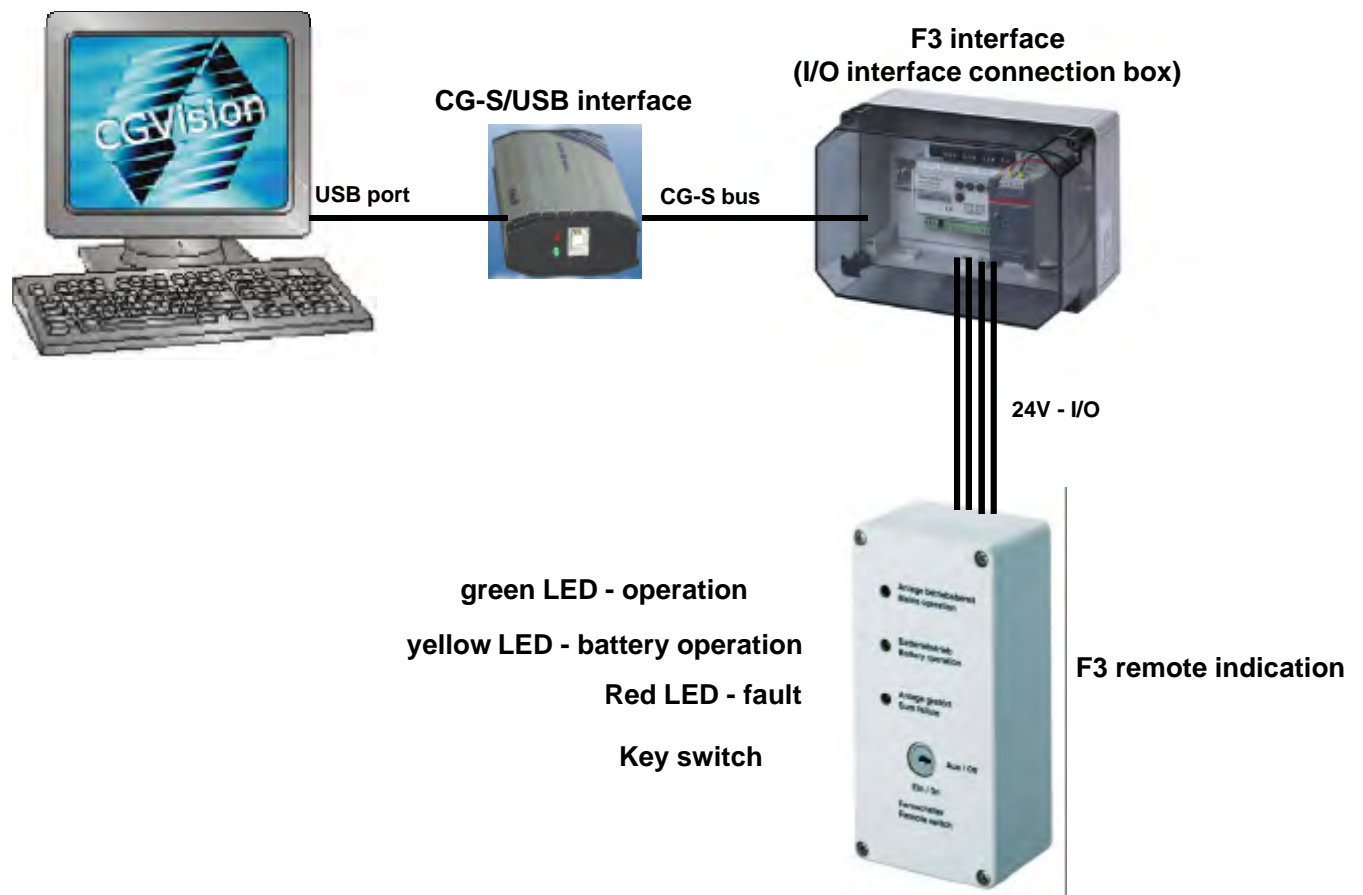
The F3 interface has 4 digital inputs (24V) and 5 relay outputs (max. 230V/ AC, 8A). Connection to CGVision is via the CG-S bus, meaning it can be connected to the CG-S bus parallel to the ZB-S or CG2000, or with autonomous operation requires the CG-S/USB interface. Routing via the ethernet with the 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.)

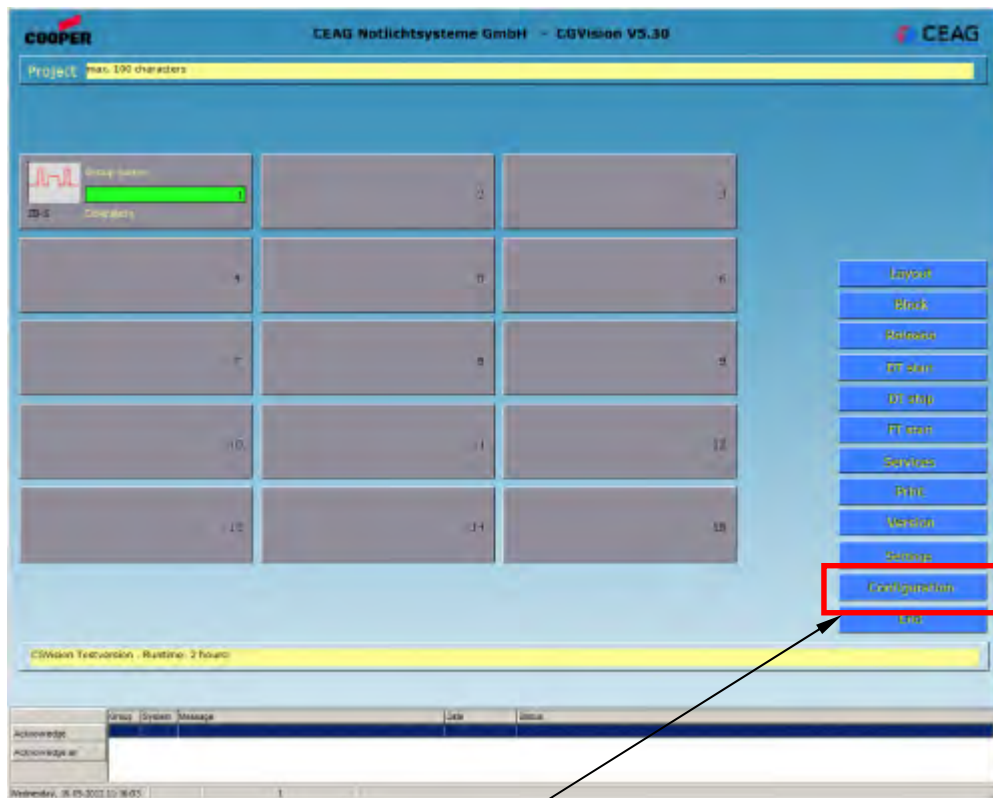
The I/O interface connection box consists of an the F3 interface and a 24V power supply unit, installed in a surface-mounted wall housing for simple wall mounting.

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)



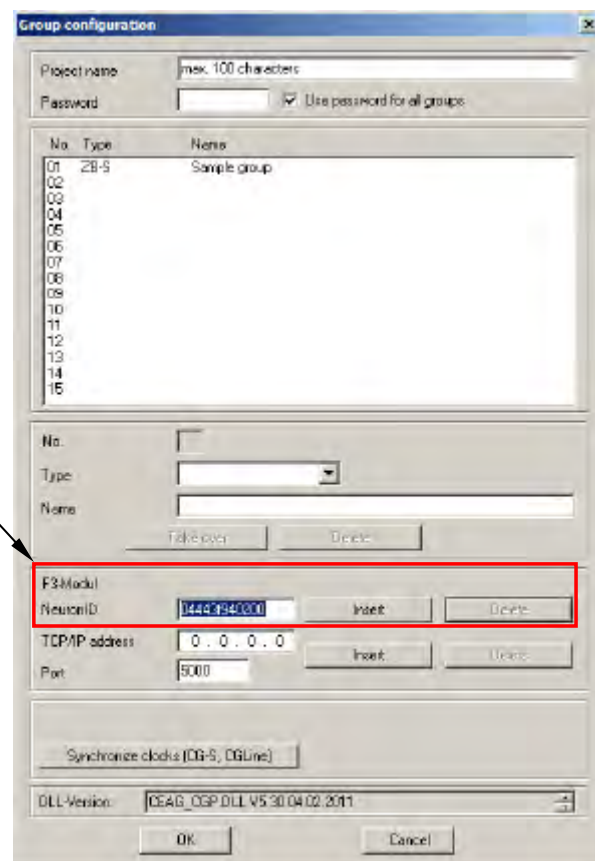
13.2.2 Activating the F3 interface in CGVision

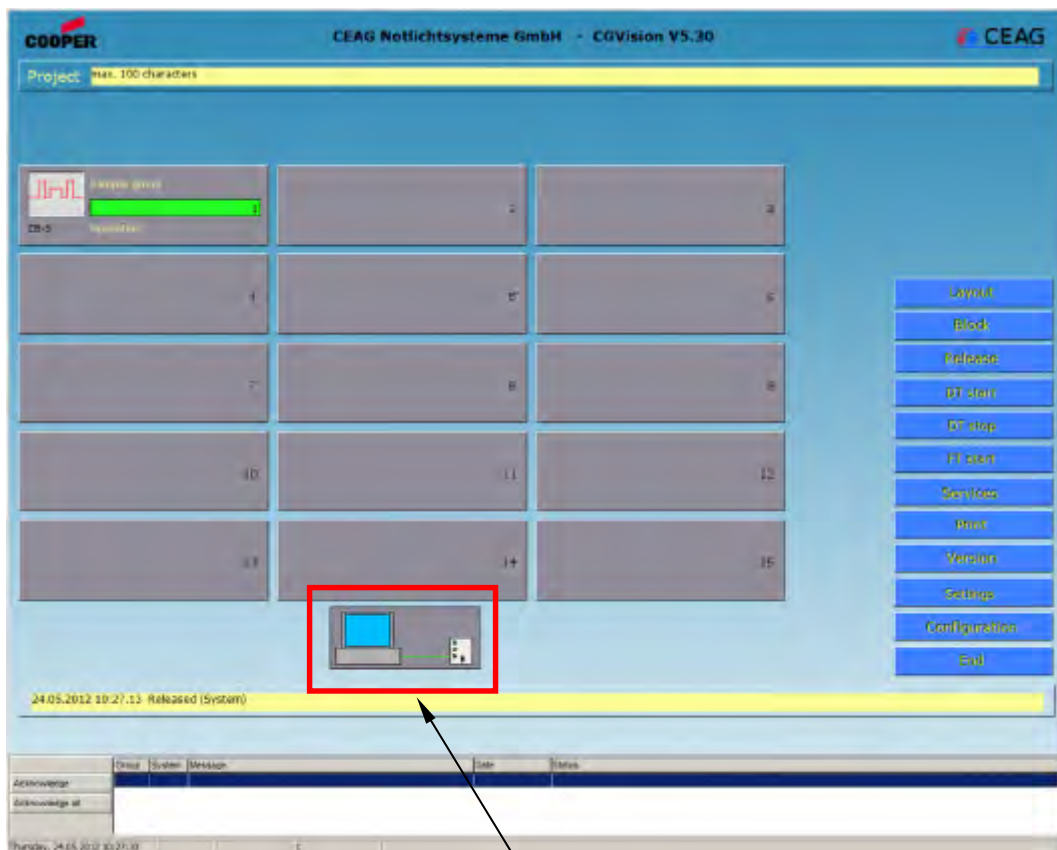


An F3 interface can be created via the 'Configuration' menu.

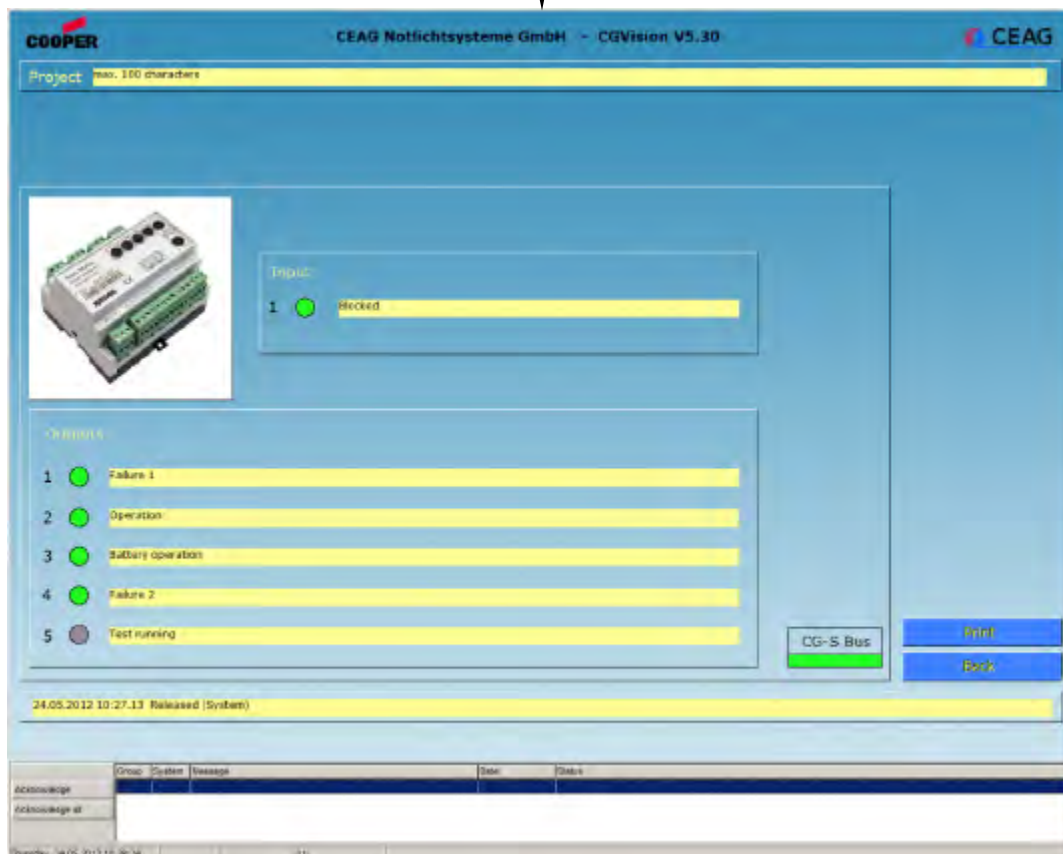
The 'group configuration' window is displayed. The 12-character Neuron ID must now be entered for creating an F3 interface. This is on the label on the F3 interface.

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.



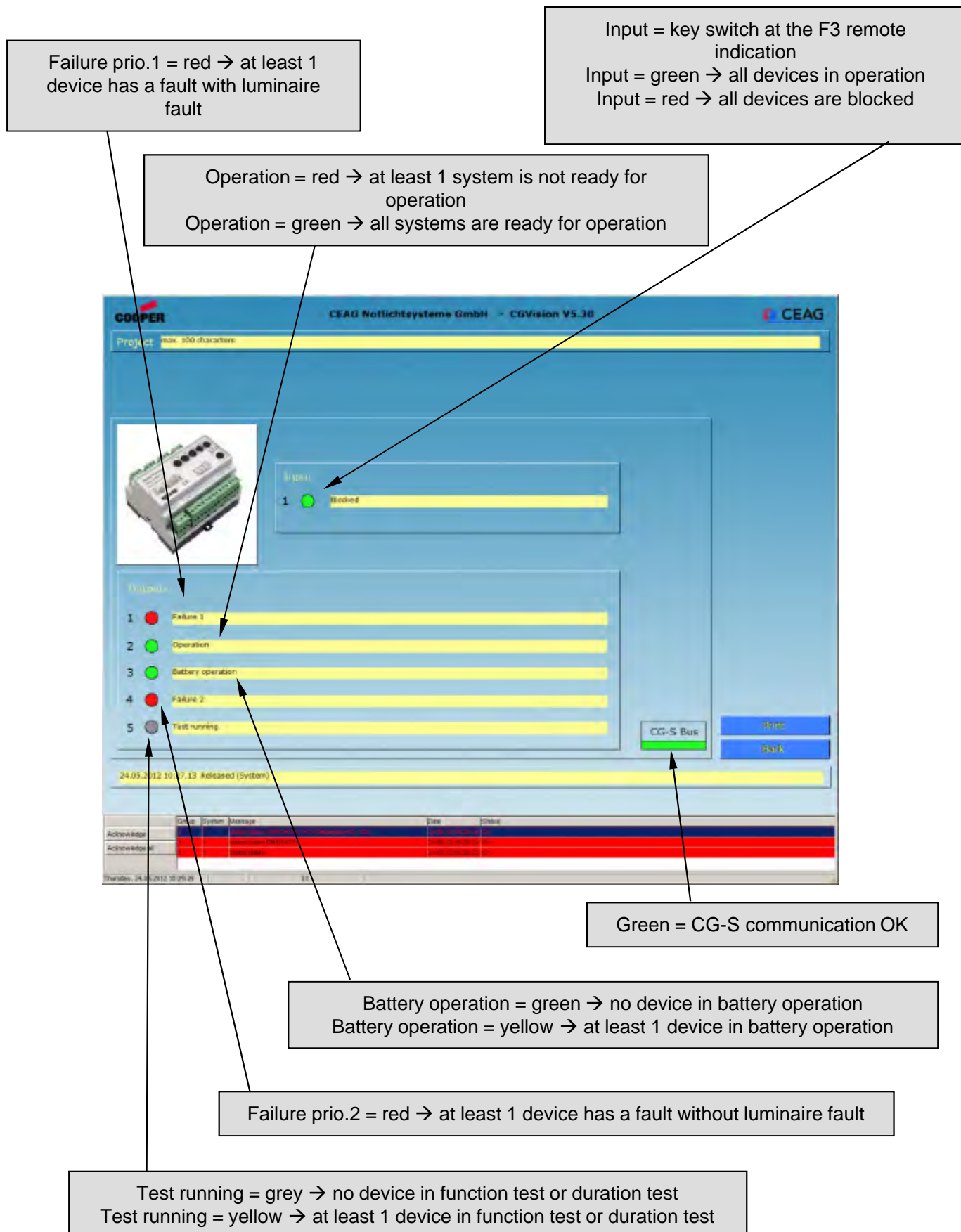


After restarting CGVision, the F3 interface is displayed on the main group screen. The green line displays functional communication between CGVision and the F3 interface. If the symbol is clicked on the F3 interface screen is displayed.



13.2.3 Structure of the F3 interface device screen:

Example:



13.3 I/O ethernet module

13.3.1 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.

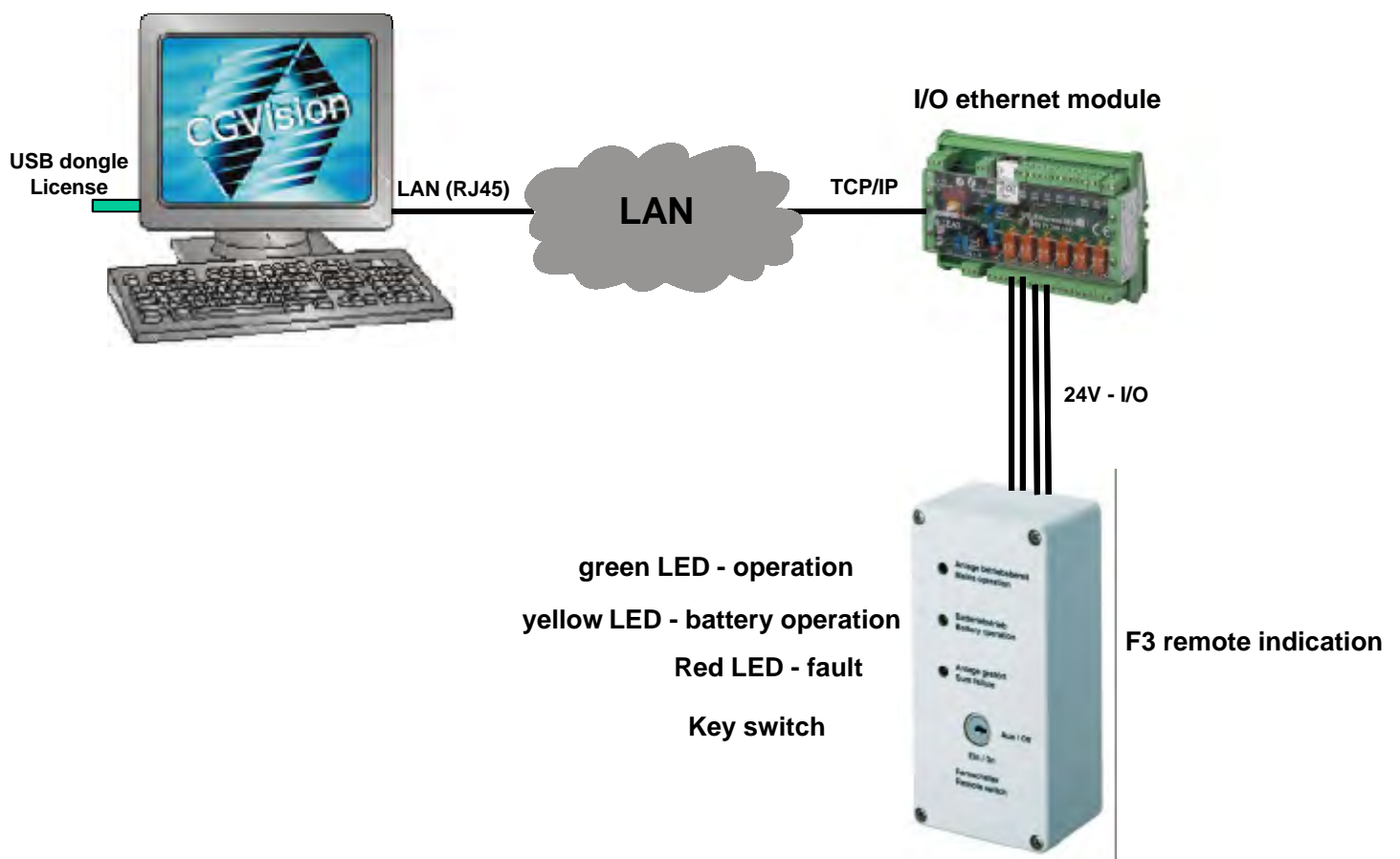
The I/O ethernet module is a digital I/O module with 8 digital inputs (24V) and 5 relay outputs. (max. 24V/ AC, 1A).

Connection to CGVision is via the LAN port (RJ45), meaning typically via an ethernet.

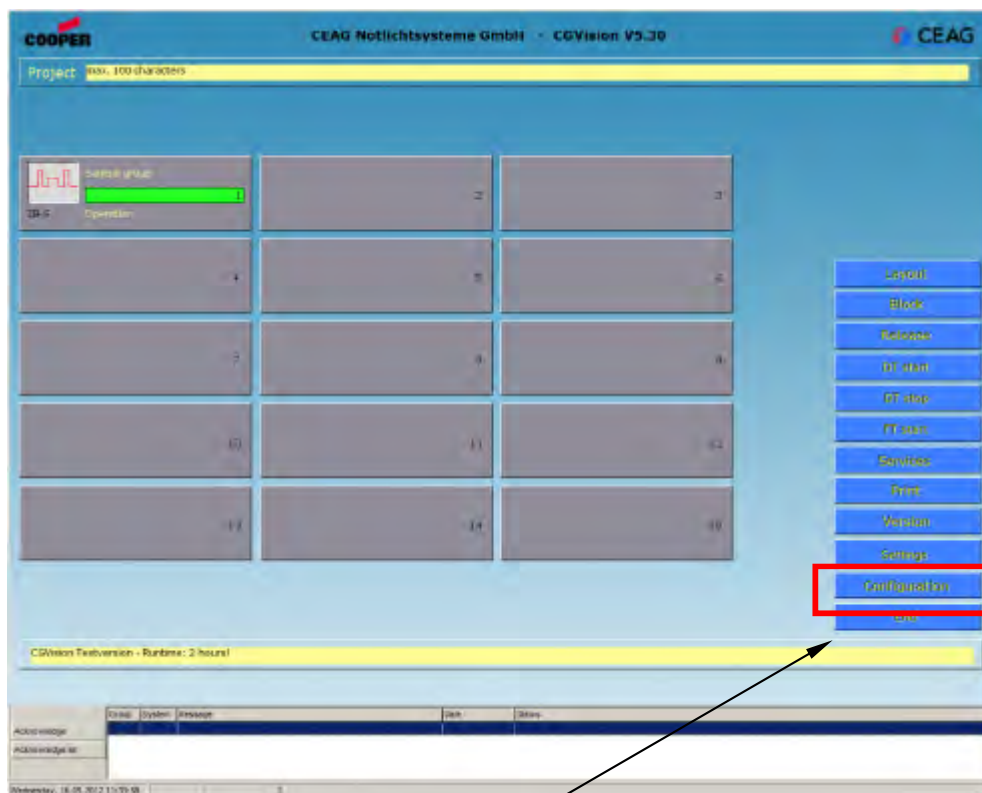
The module is designed for mounting to a DIN rail with installation in the distributor. Supply is via 24V/DC, e.g. via the DC-DC converter. (Observe maximum load with use of further DLS bus modules.)

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



13.3.2 Activating the I/O ethernet module in CGVision

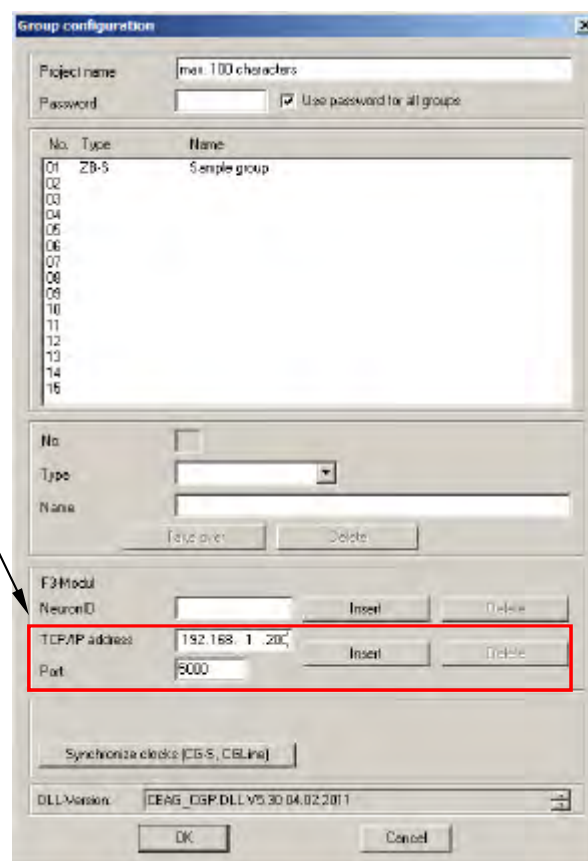


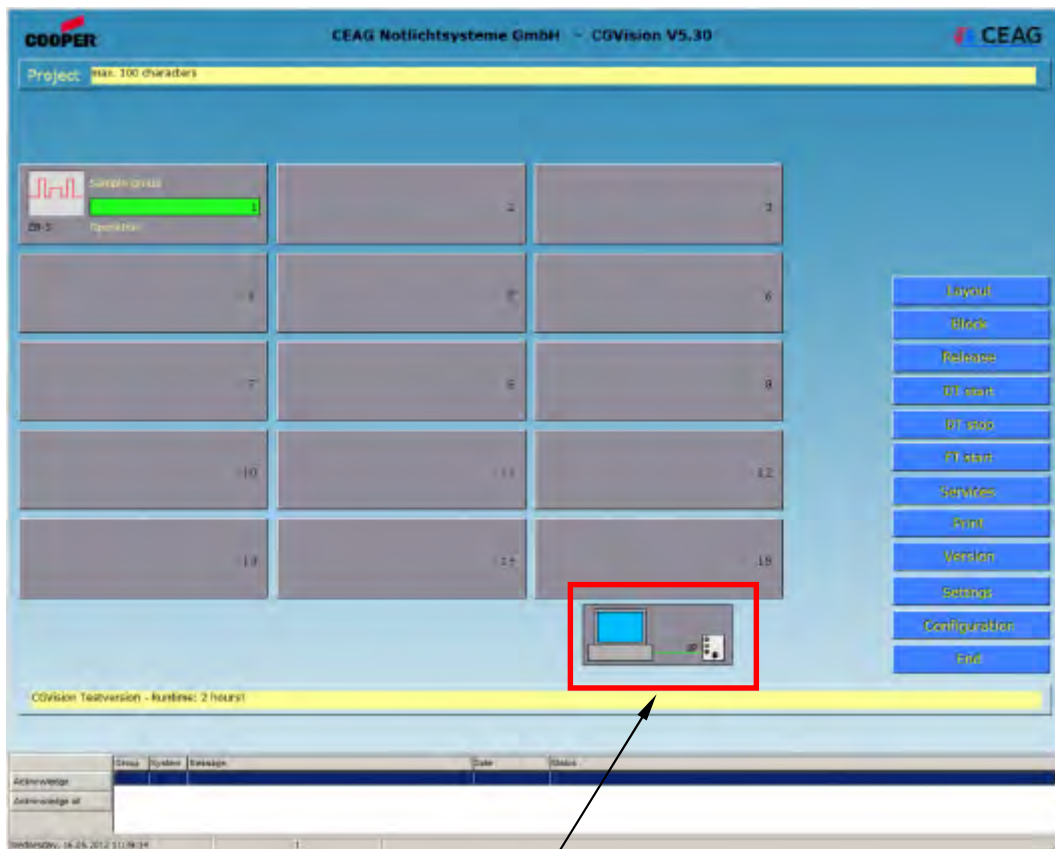
An I/O ethernet module can be created via the 'Configuration' menu.

The 'group configuration' window is displayed. The IP address must now be entered to create the I/O ethernet module.

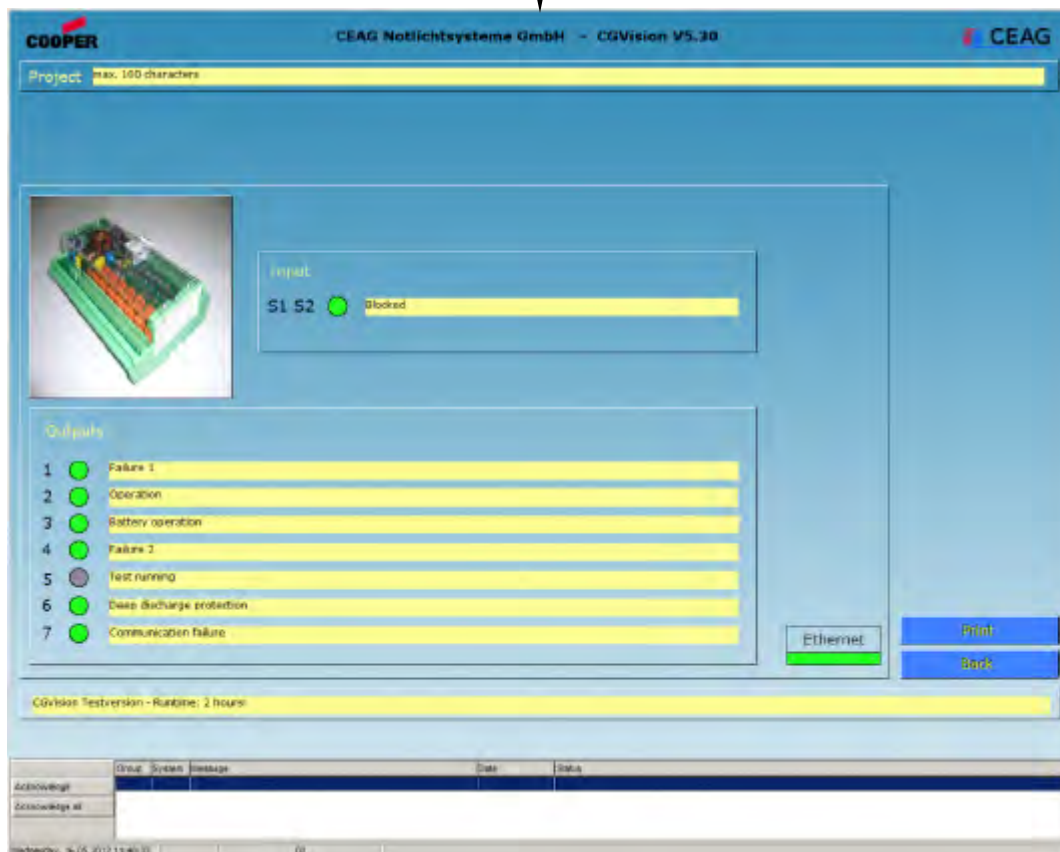
As the standard address the IP: 192.168.1.200 is assigned. Please consult the module manual for modifying the address.

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.





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.



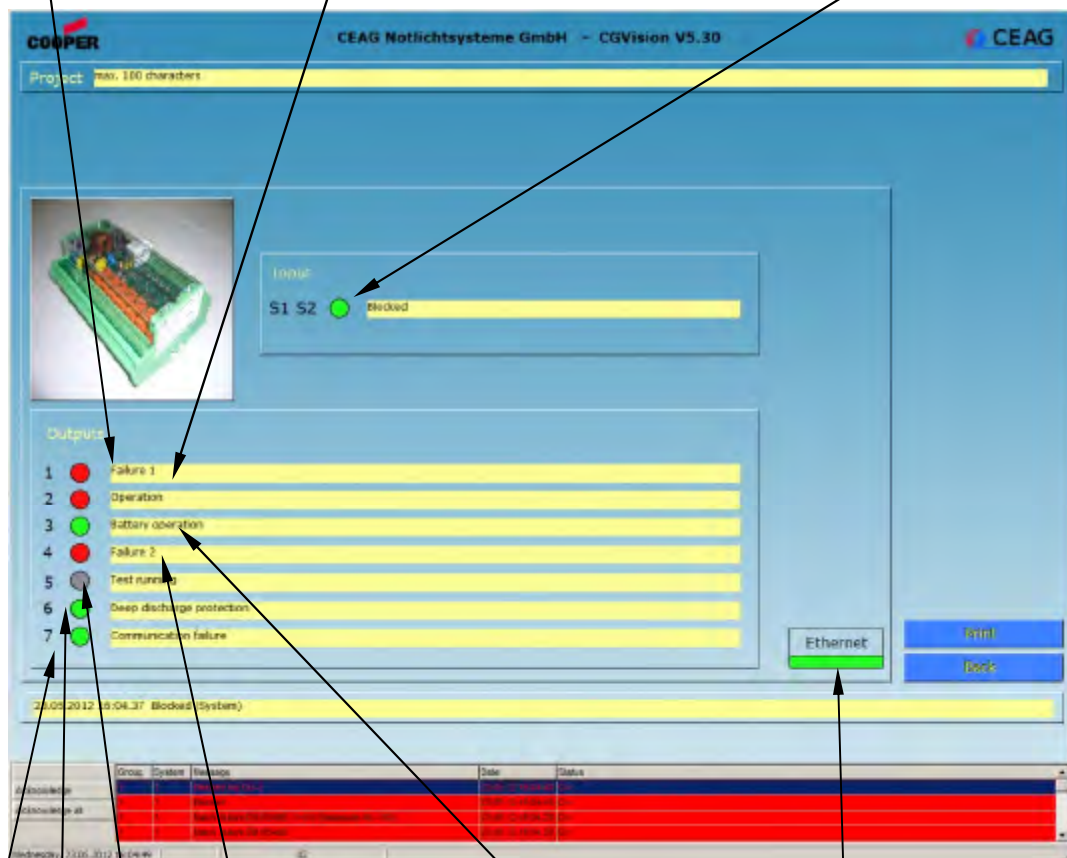
13.2.3 Structure of the F3 interface (I/O ethernet module) device screen:

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



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

Notes:



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