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

CEAG Notlichtsysteme GmbH

1 Introduction

<u>These Rev.H installation instructions with complete descriptions of functions apply to CGVision from version 5.10 !</u>
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

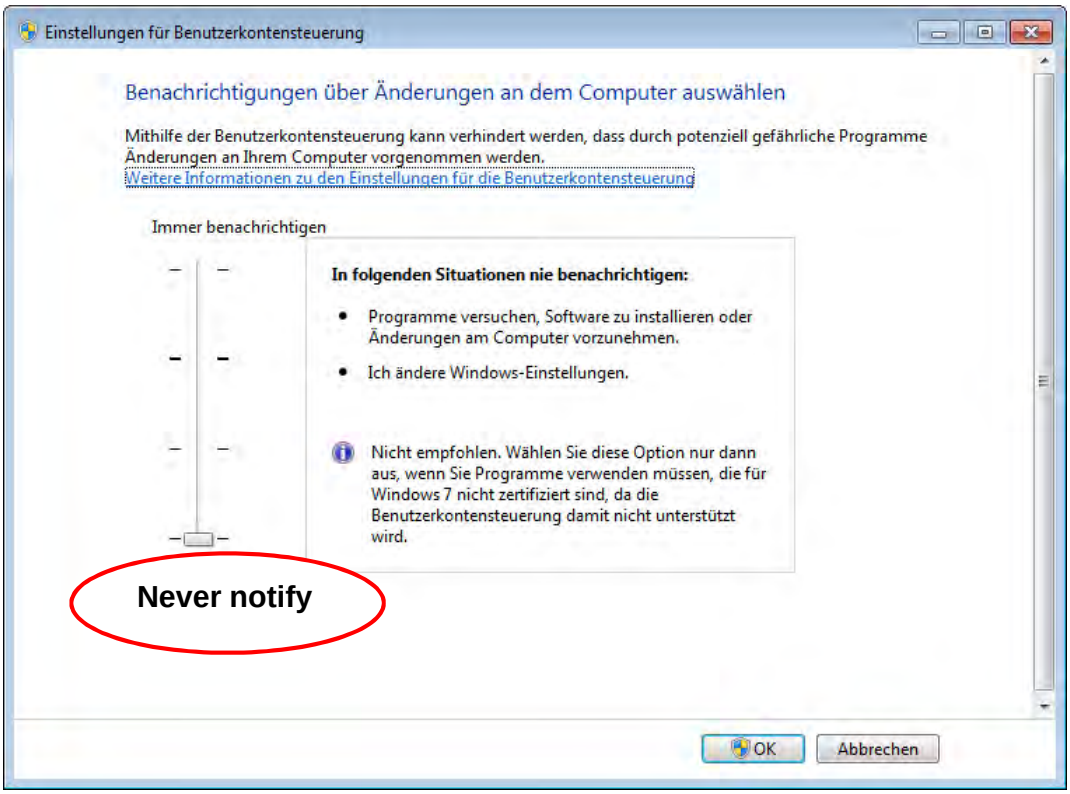
PC system requirements for CGVision software:

- **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 <u>before</u> installation of CGVision!

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

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



400 71 347 387(E) – Section 1 / 01.02.12/ CE
-Technical details subject to alteration-

CEAG Notlichtsysteme GmbH

Senator-Schwartz-Ring 26
D-59494 Soest
Telefon + 49 2921 / 69-870
Telefax + 49 2921 / 69-617
Internet http://www.ceag.de
E-Mail Info-n@ceag.de

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Section 2
Installation instructions

CEAG Notlichtsysteme GmbH

2 Installation instructions

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

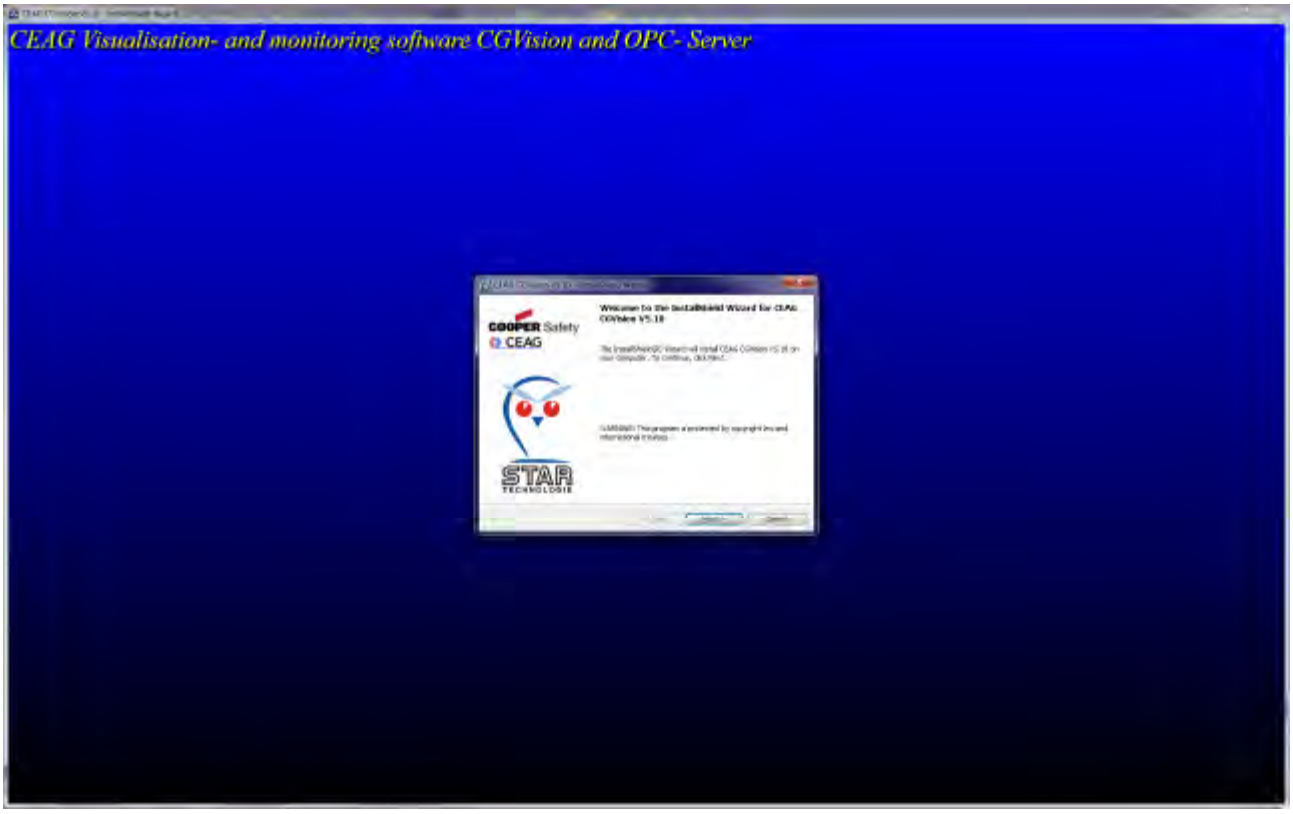
2.1 Complete installation

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:

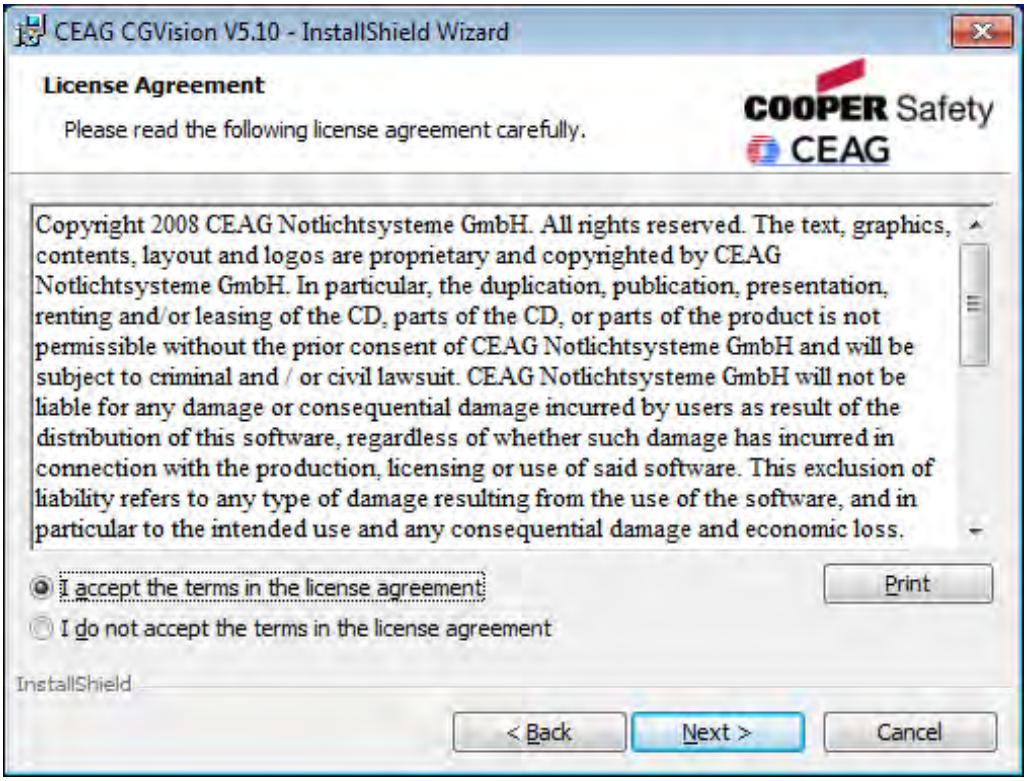
After inserting the installation CD, automatic setup begins and the following start screen appears:

(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.)

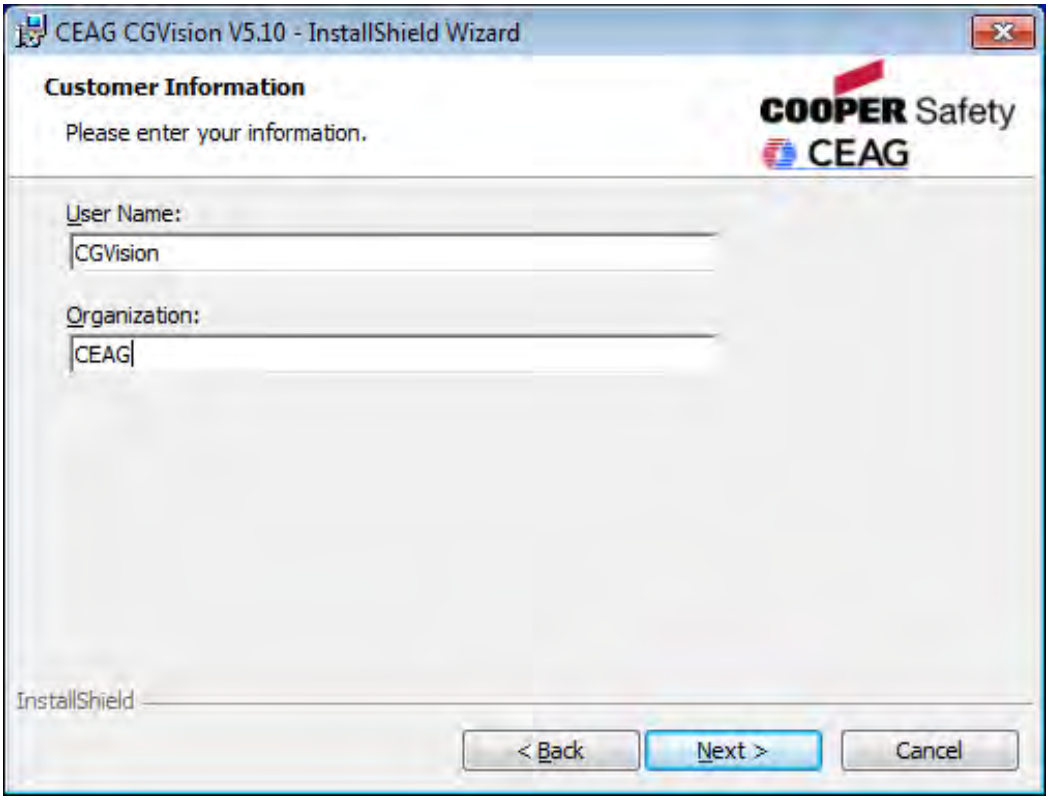


The installation assistant appears with specification of the current CGVision version (e.g. CGVision 5.10). Continue with 'Next'.

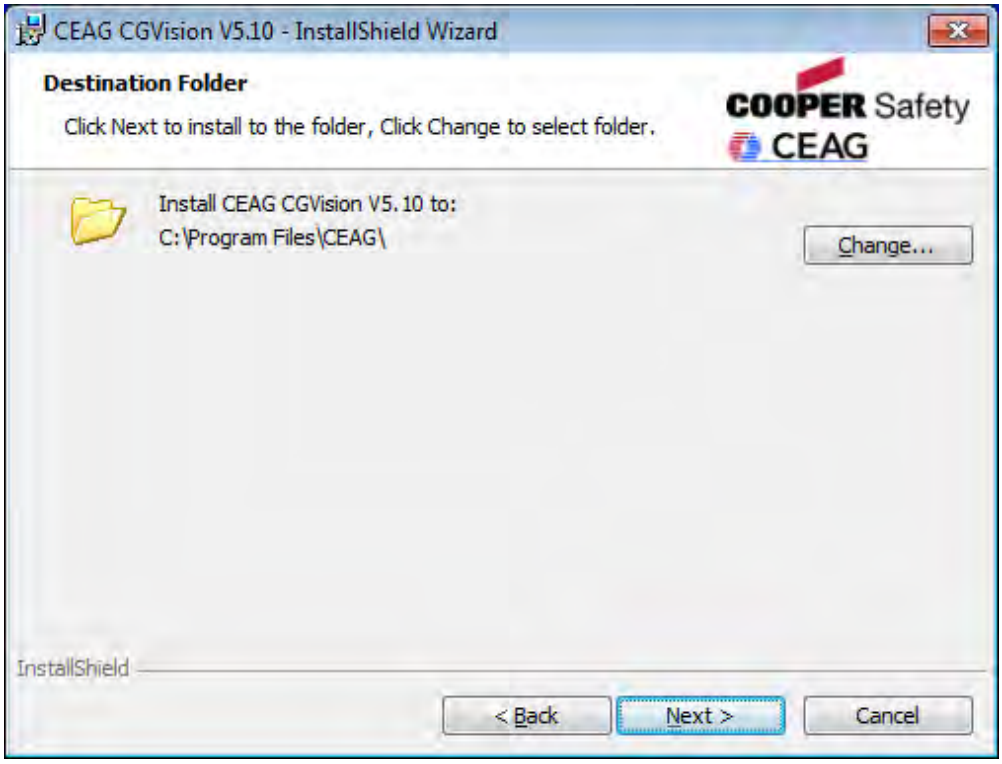
A licence agreement appears for use of the CGVision software in English and German. Please read the licence agreement carefully. If you accept the licence agreement, click on 'I accept the terms in the licence agreement' and then click on 'Next'.
Note: the 'Print' button enables the licence agreement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



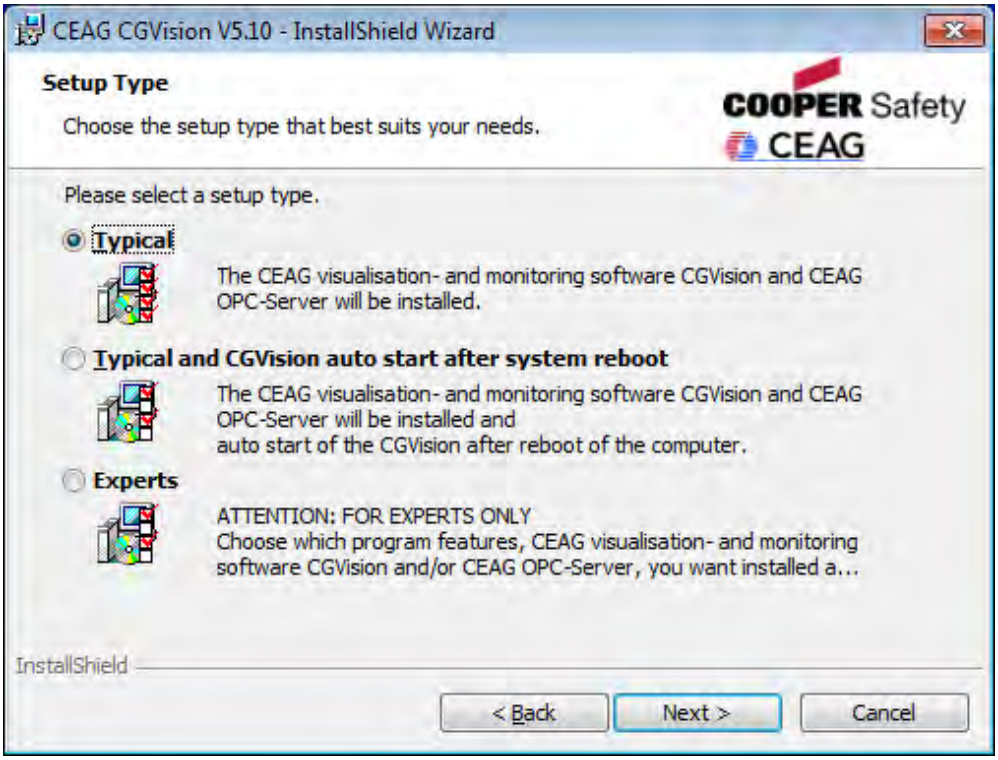
The following dialogue enables you to enter the user and organisation.
Continue with 'Next'.



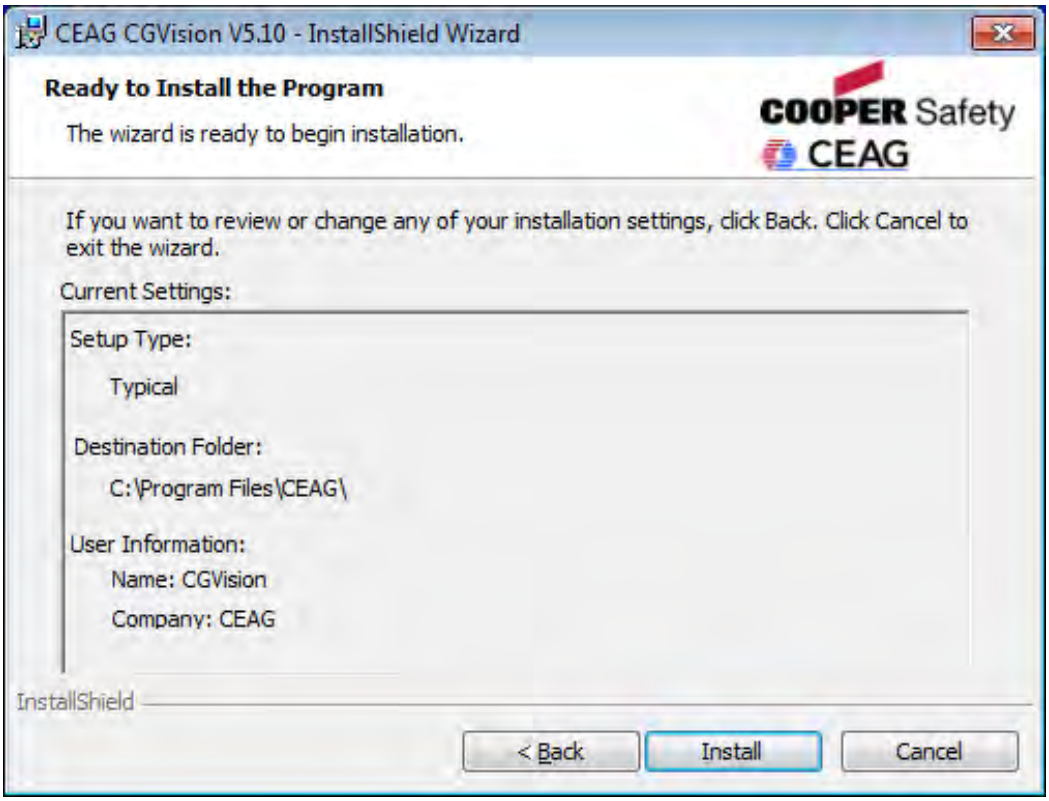
In the next screen the destination folder for installation can be specified. We recommend maintaining the default path. Continue with 'Next'.



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'.

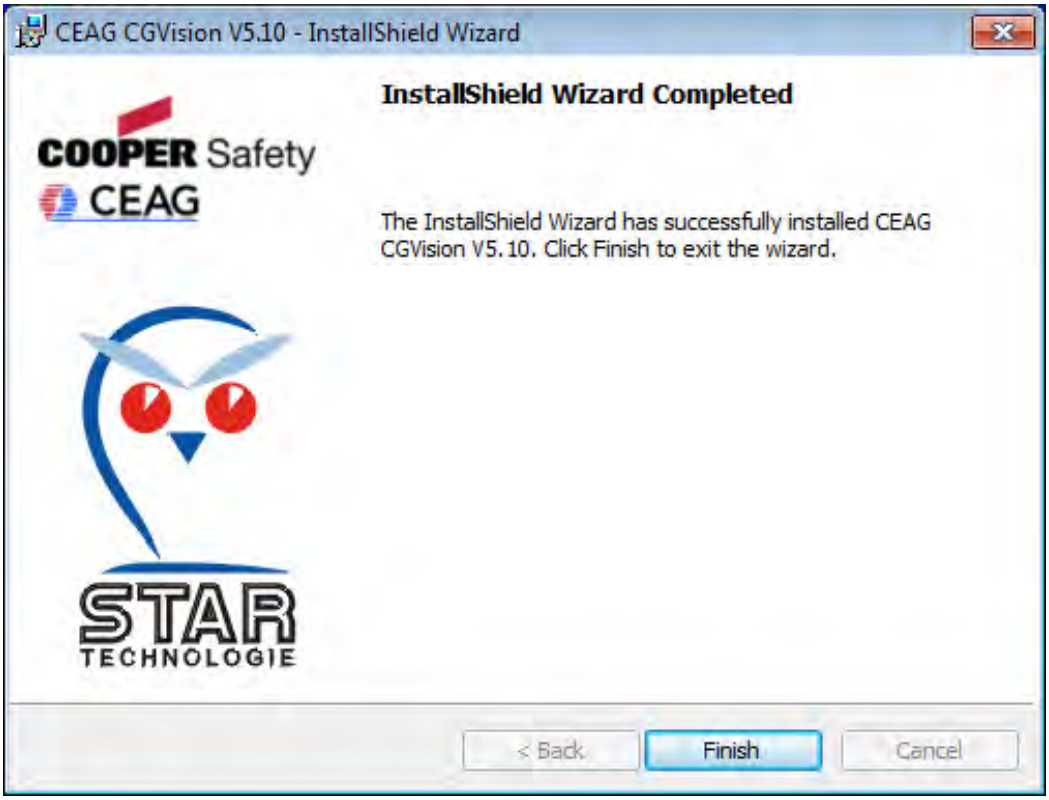


A summary of all specified data is then displayed:



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

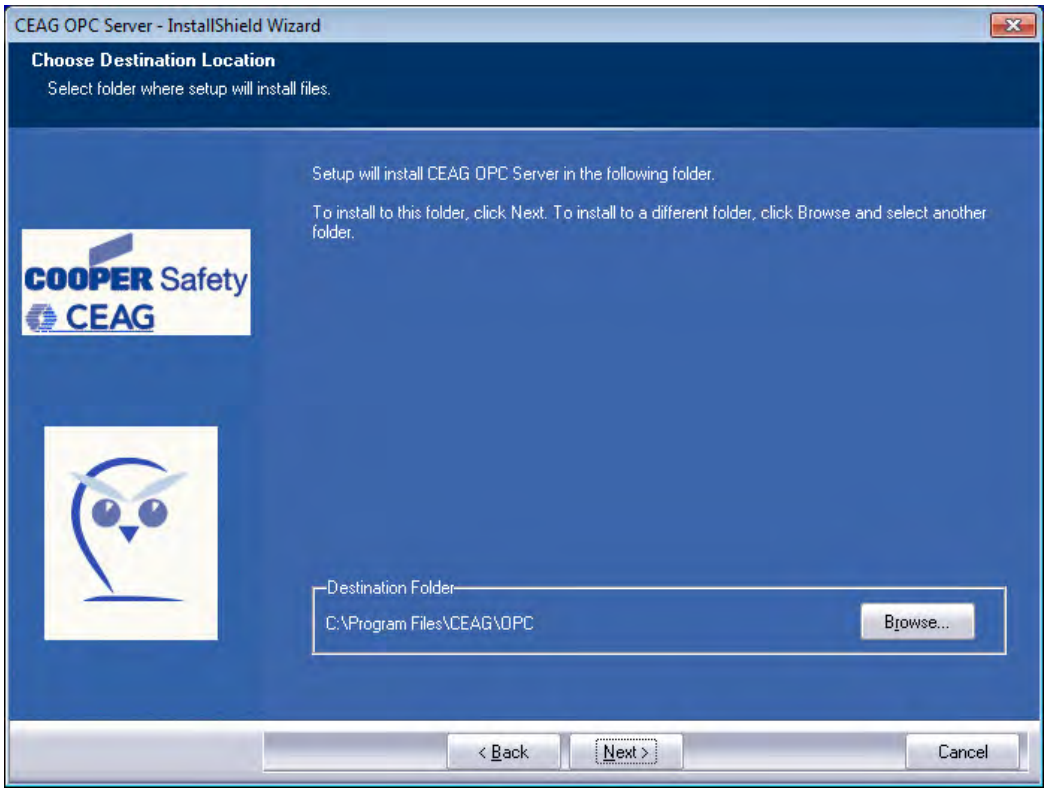
The language for the starting of CGVision is now queried:
Select your language and confirm with 'OK'.
Note: if this dialogue does not appear, then it must be brought to the foreground by selecting it in the taskbar.



Installation of CGVision is then finished. Exit with 'Finish'.
Installation of the CG-S OPC server then follows, starting automatically:

CG-S OPC server:

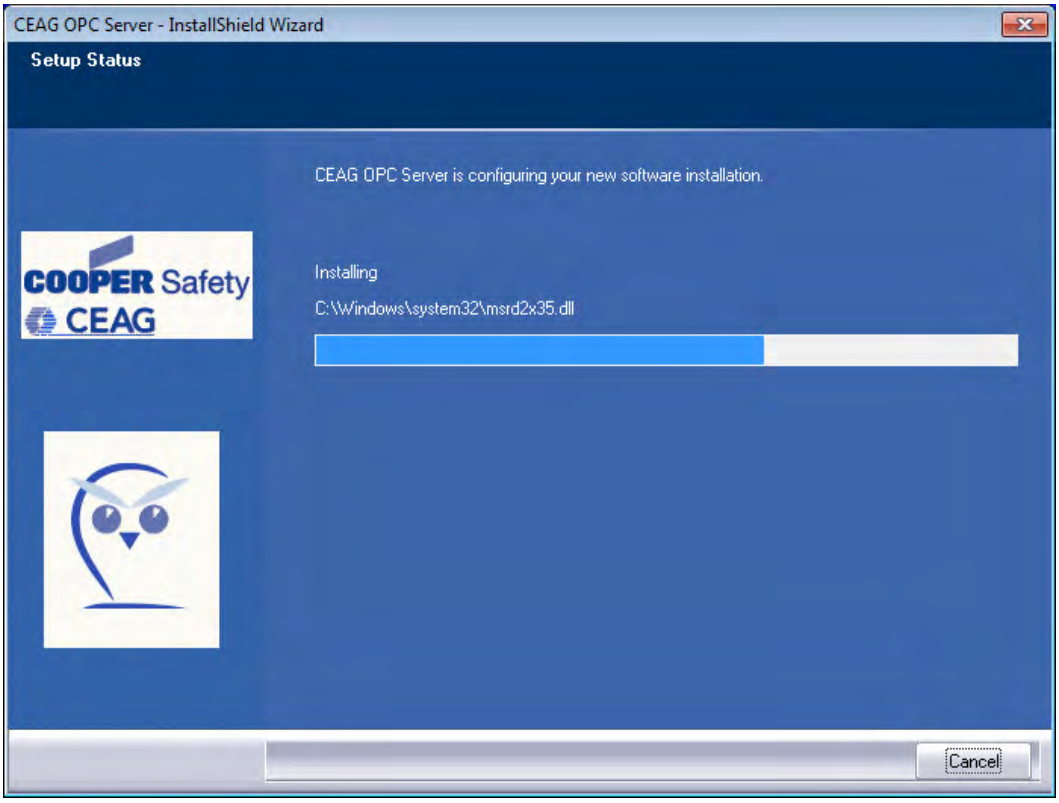
Selecting the destination folder for the CG-S OPC server:
We recommend maintaining the default path:



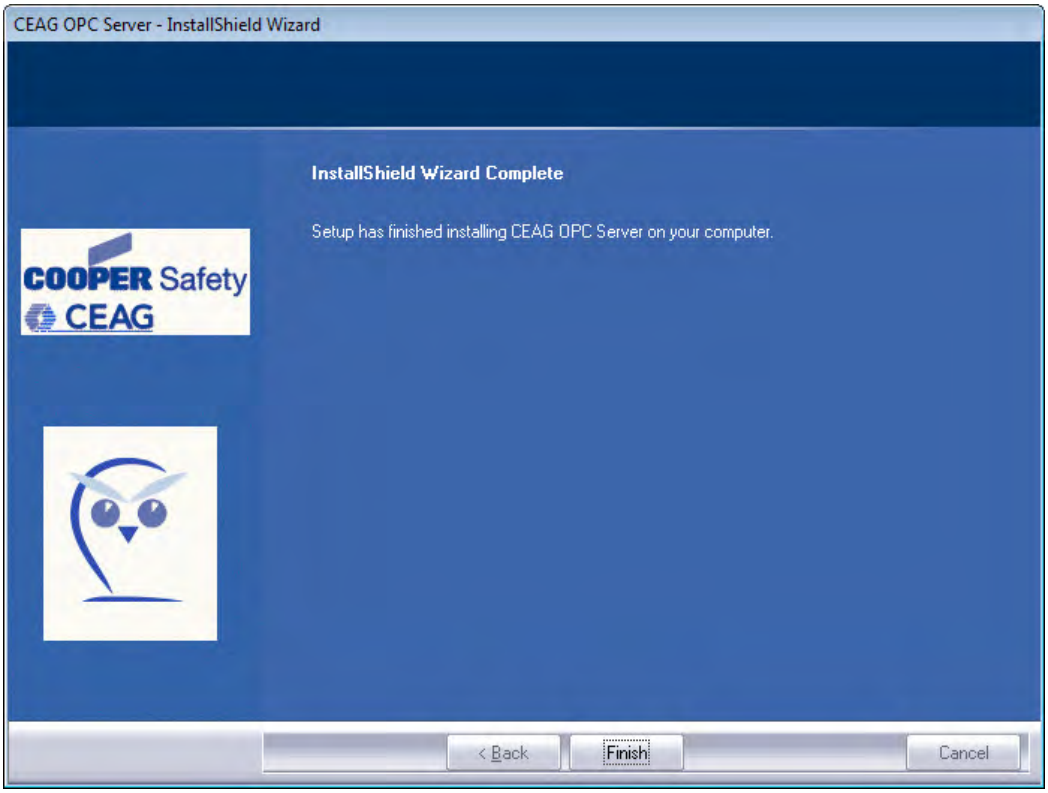
The installation program creates a program group that is shown on the start bar under programs. We recommend maintaining the specification.

Continue with 'Next'.

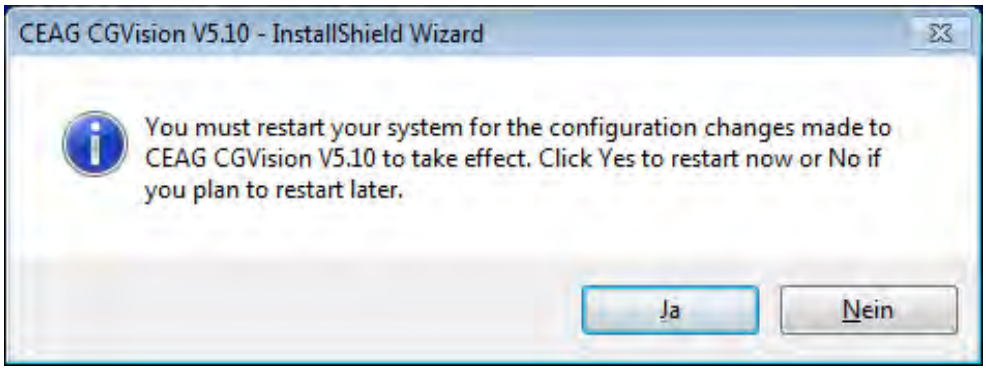
Installation of the OPC server now begins and a progress bar is displayed:



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.

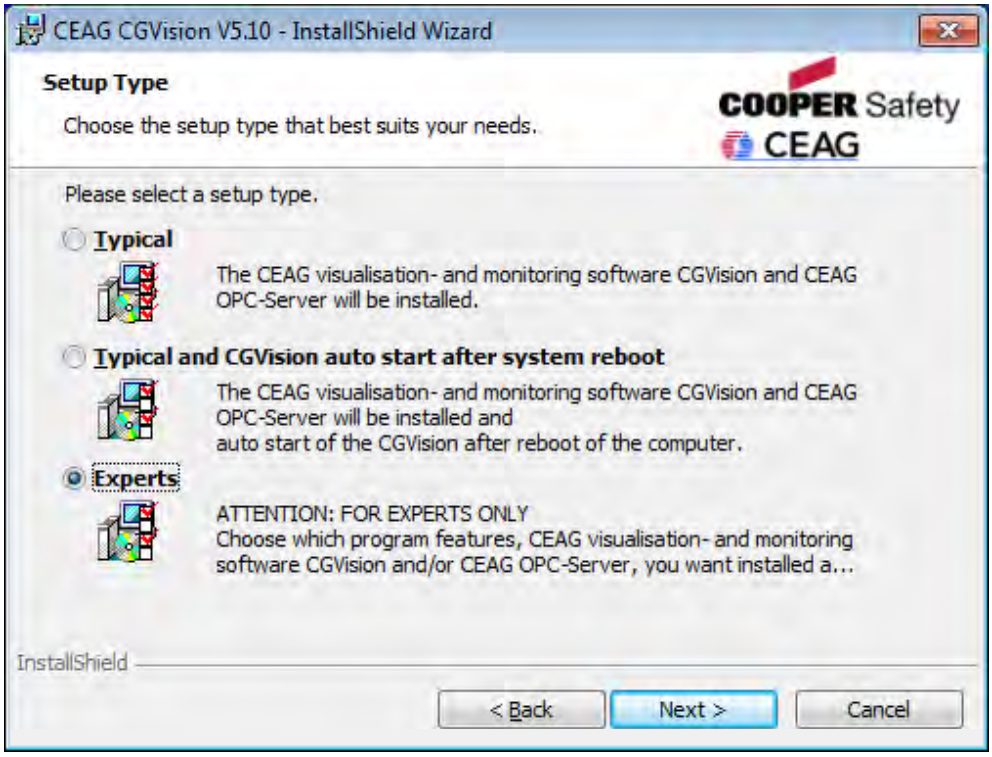


With a repeated installation, e.g. with updates, restarting is not required. Continue with 'No'.

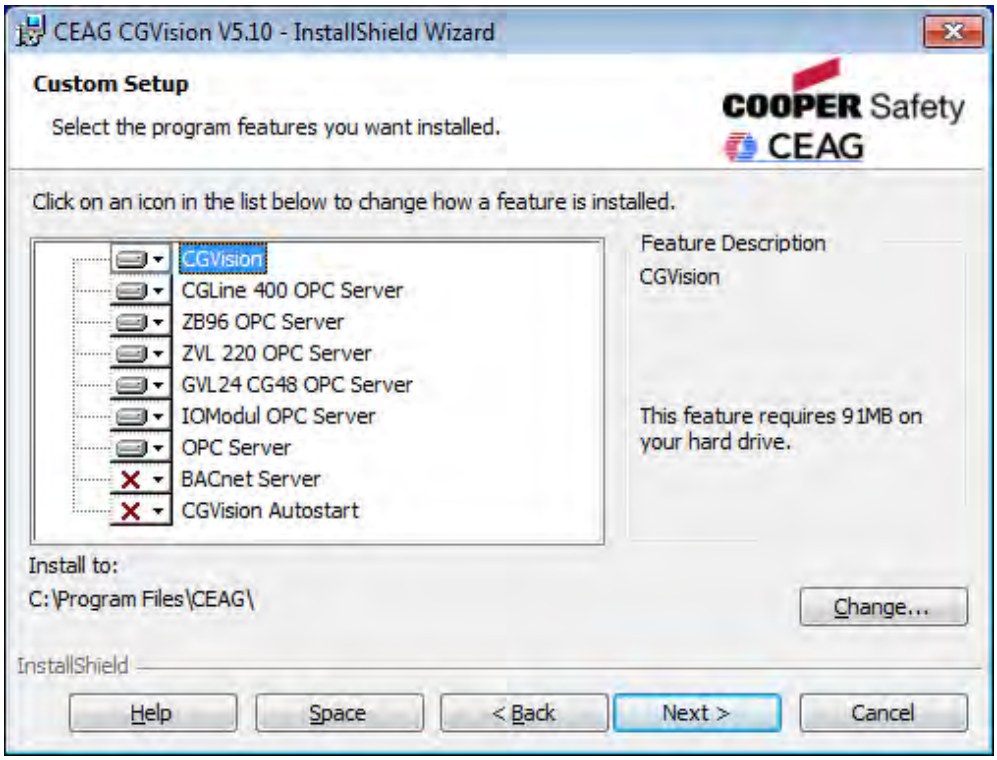
CGVision can now be started via the CEAG symbol on the desktop, or via Start → All programs → CEAG → CGVision → CGVision.

2.2 individual installation – CGVision/OPC server

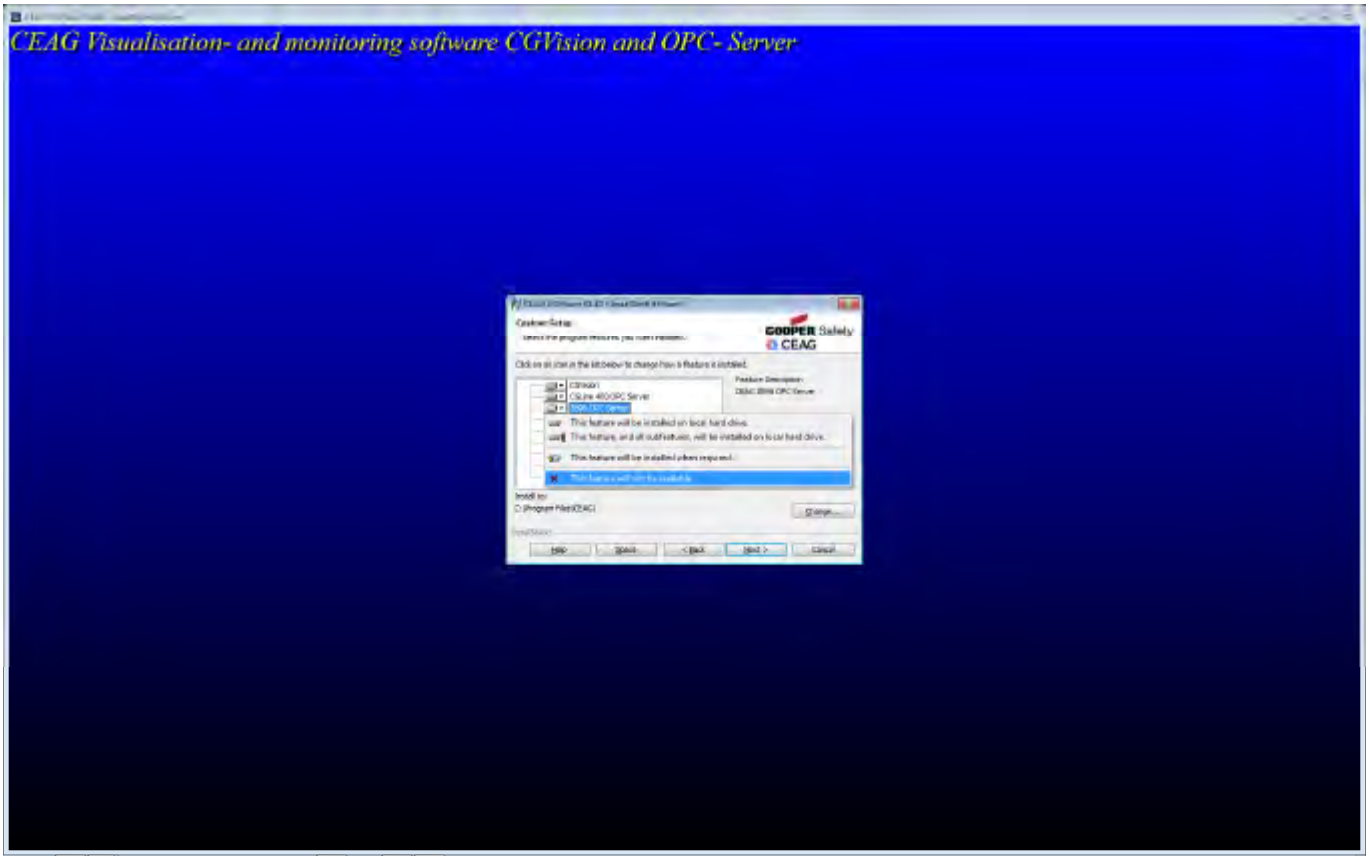
It is also possible to install CGVision or OPC servers individually, for example when an OPC server is desired for a building control technology connection without CGVision.
In this case install as described in Section 1.1. 'Complete installation' until the following screen appears:



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:

Notices:

Notices:

CEAG Notlichtsysteme GmbH

Senator-Schwartz-Ring 26
D-59494 Soest
Telefon + 49 2921 / 69-870
Telefax + 49 2921 / 69-617
Internet http://www.ceag.de
E-Mail Info-n@ceag.de

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For the monitoring and control of
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400 71 347 387 (E)

Section 3
Structure and basic operation

STAR TECHNOLOGIE

CEAG
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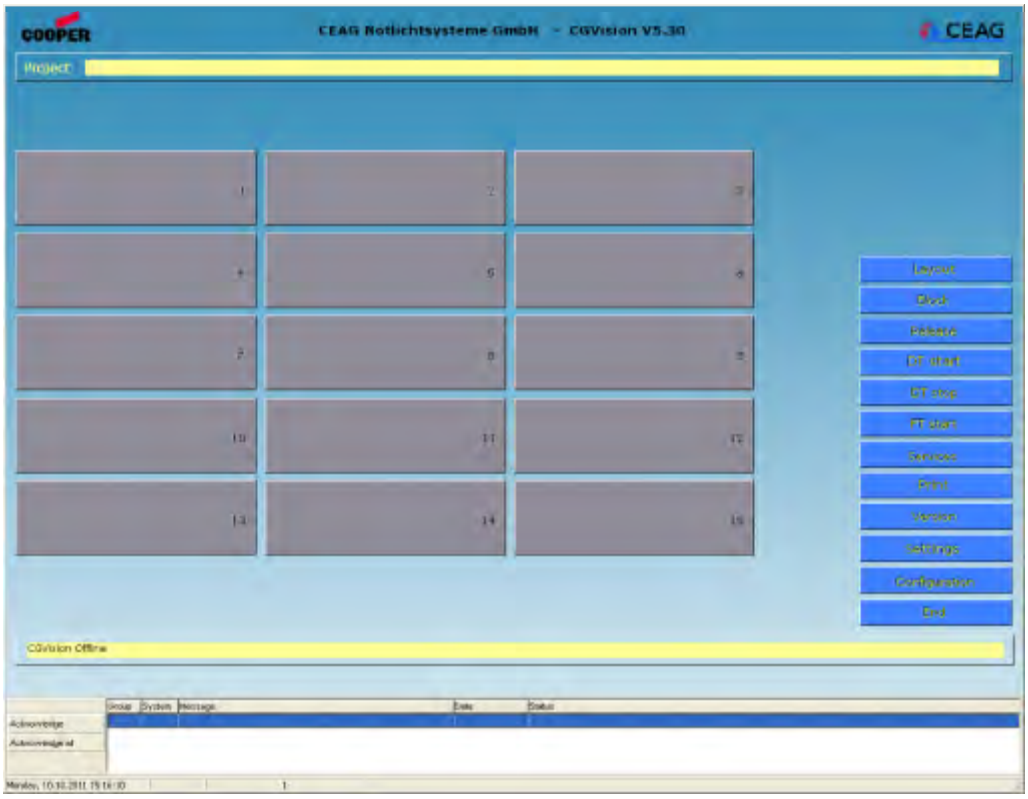
3 CGVision
Structure and basic operation

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.

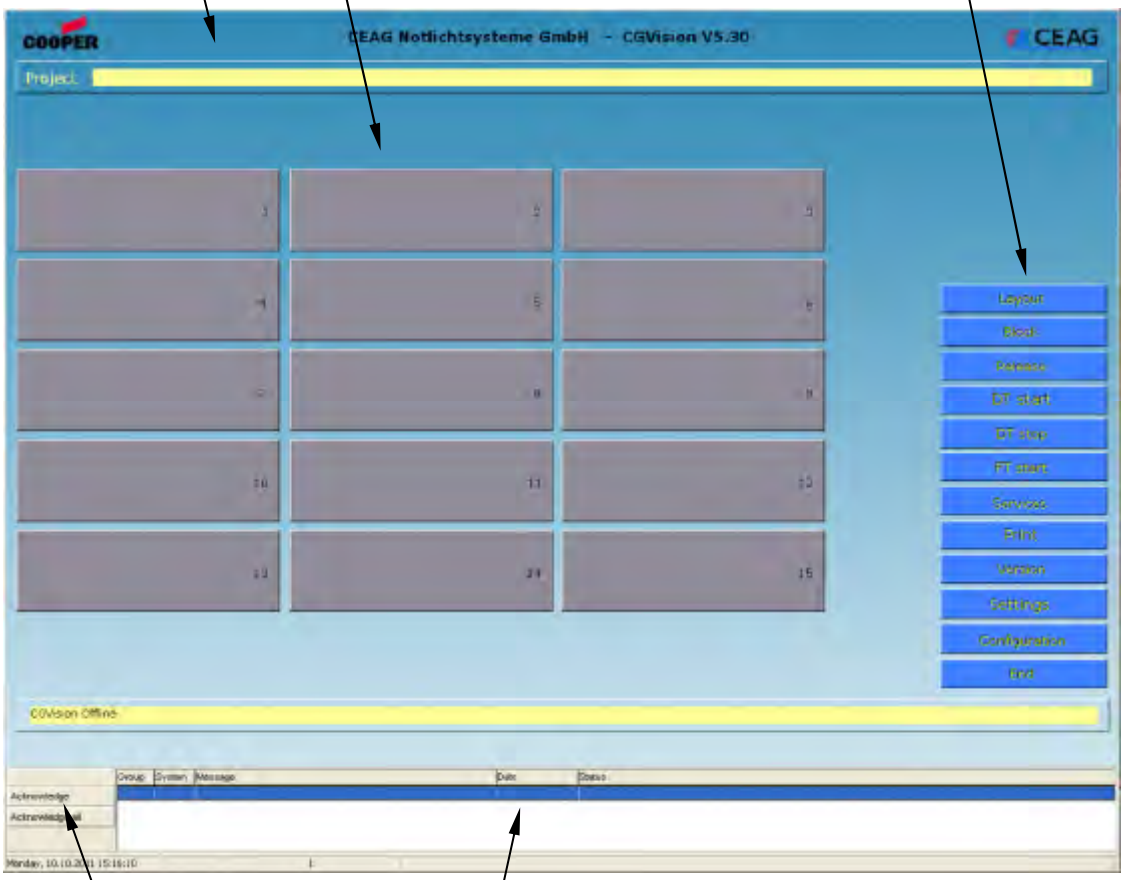
3.2 'Main group screen'

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

Freely definable project name (up to 100 characters)

15 buttons for system groups / device families

Buttons for commands or configuration settings

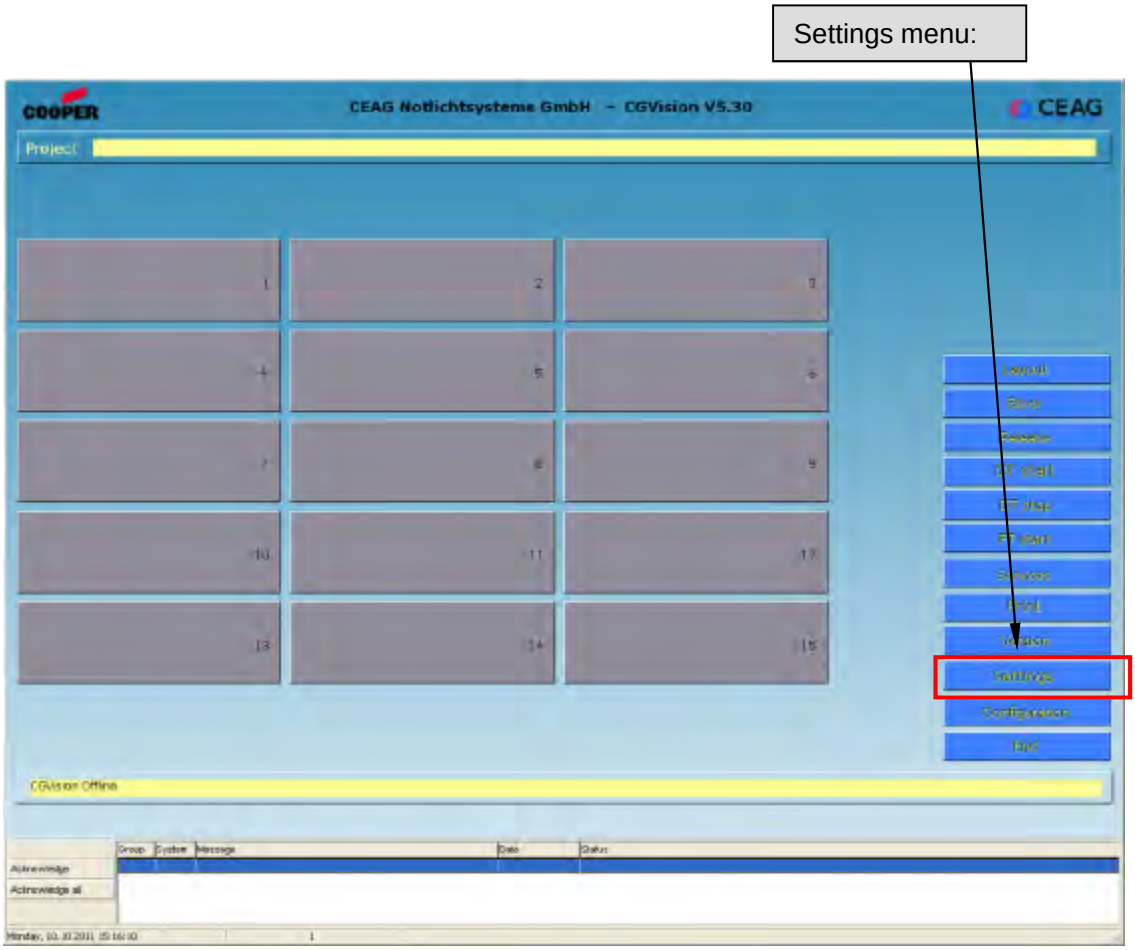


Alarm list with the last 5 status / fault messages
(with more than 5 messages: scrolling function for older messages)

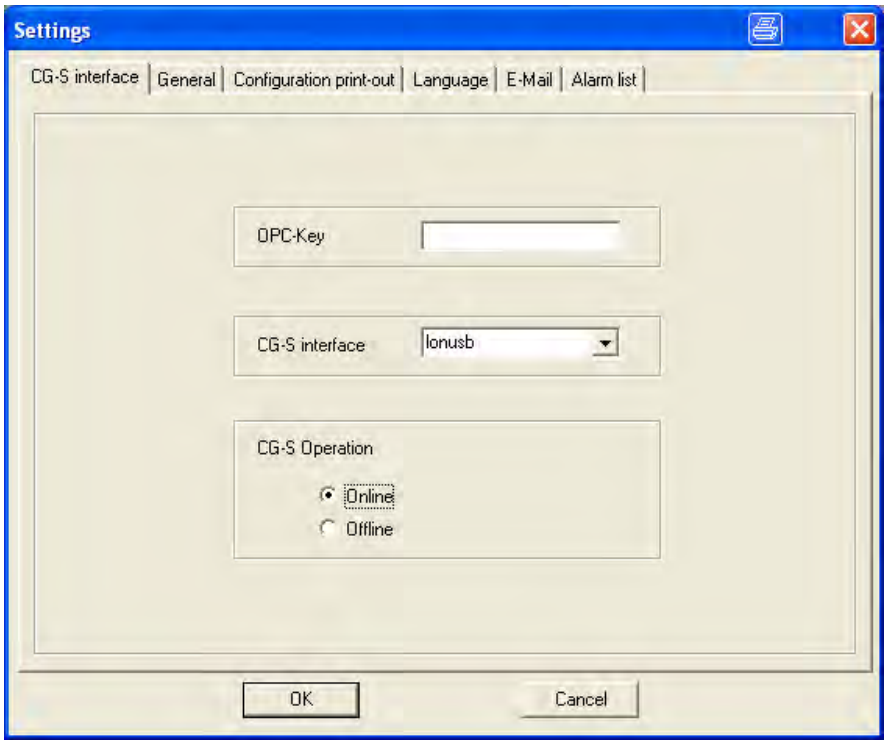
Confirmation buttons for messages from the alarm list.
(Note: confirmations do not influence entry into the inspection book.)

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:

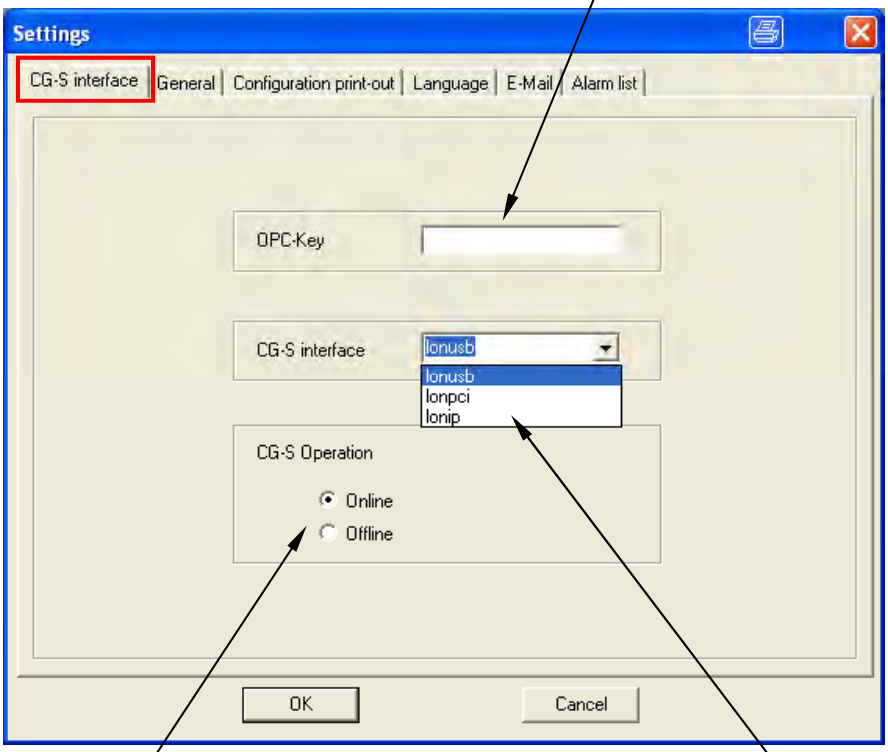


3.2.2 Basic pre-settings

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.



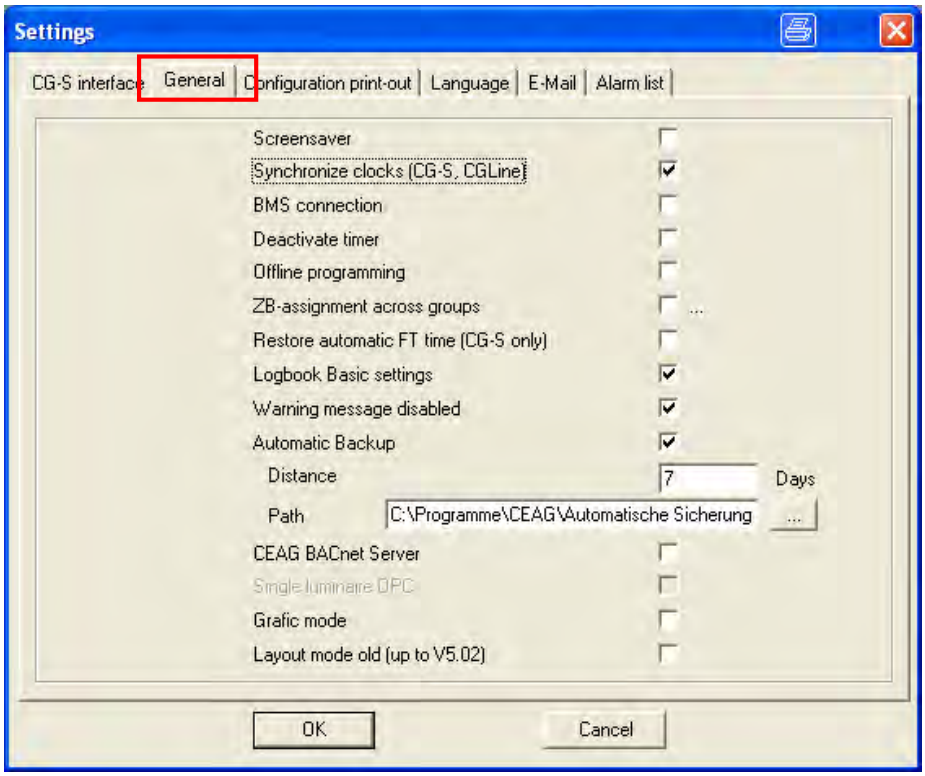
Selects whether CG-S operation is implemented online or offline. This deactivates the OPC server so that CGVision can be used for demonstration purposes without having CG-S systems connected.

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

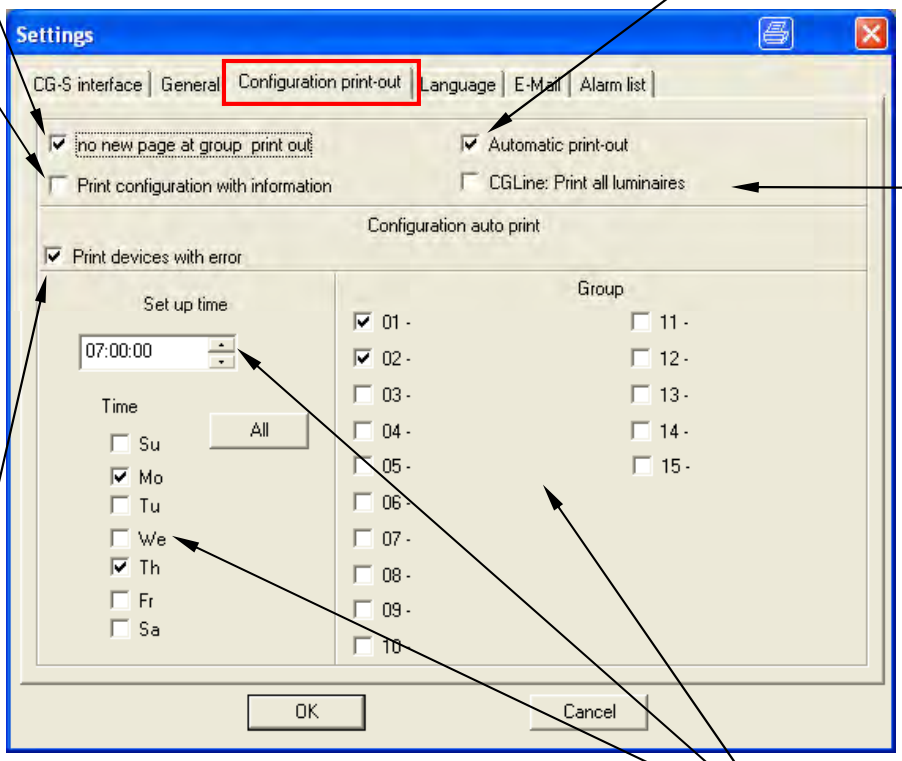
Print configuration

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'.



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

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

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

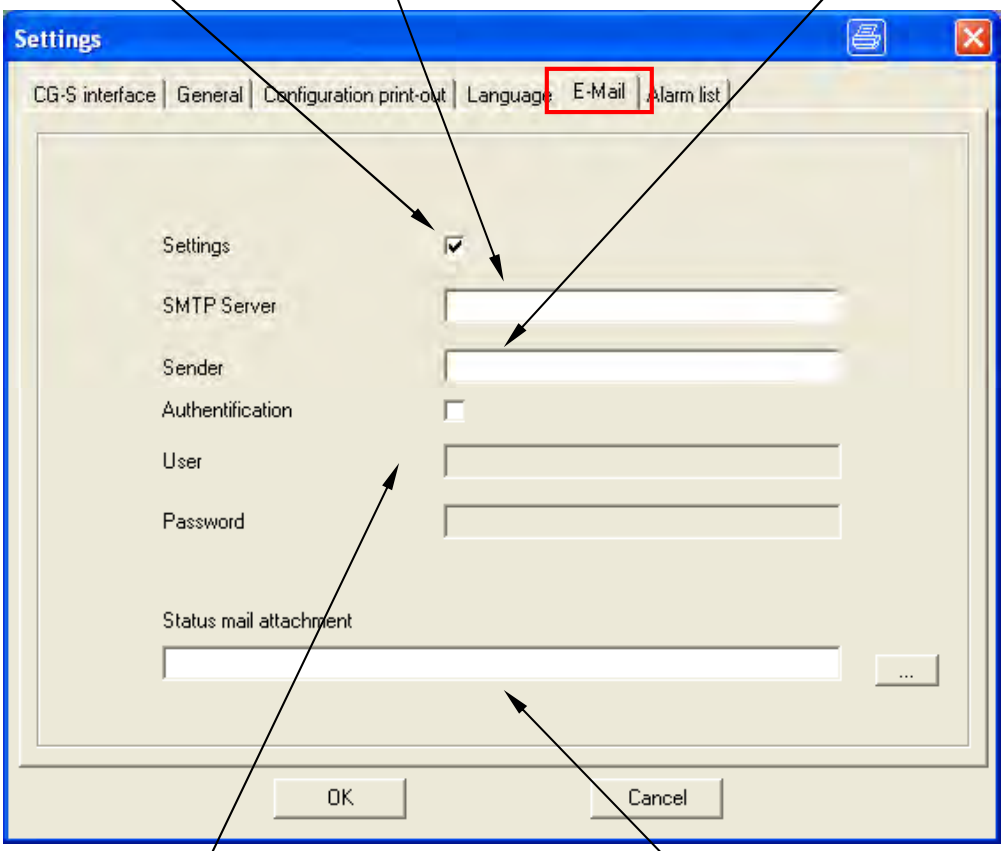
E-mail

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.

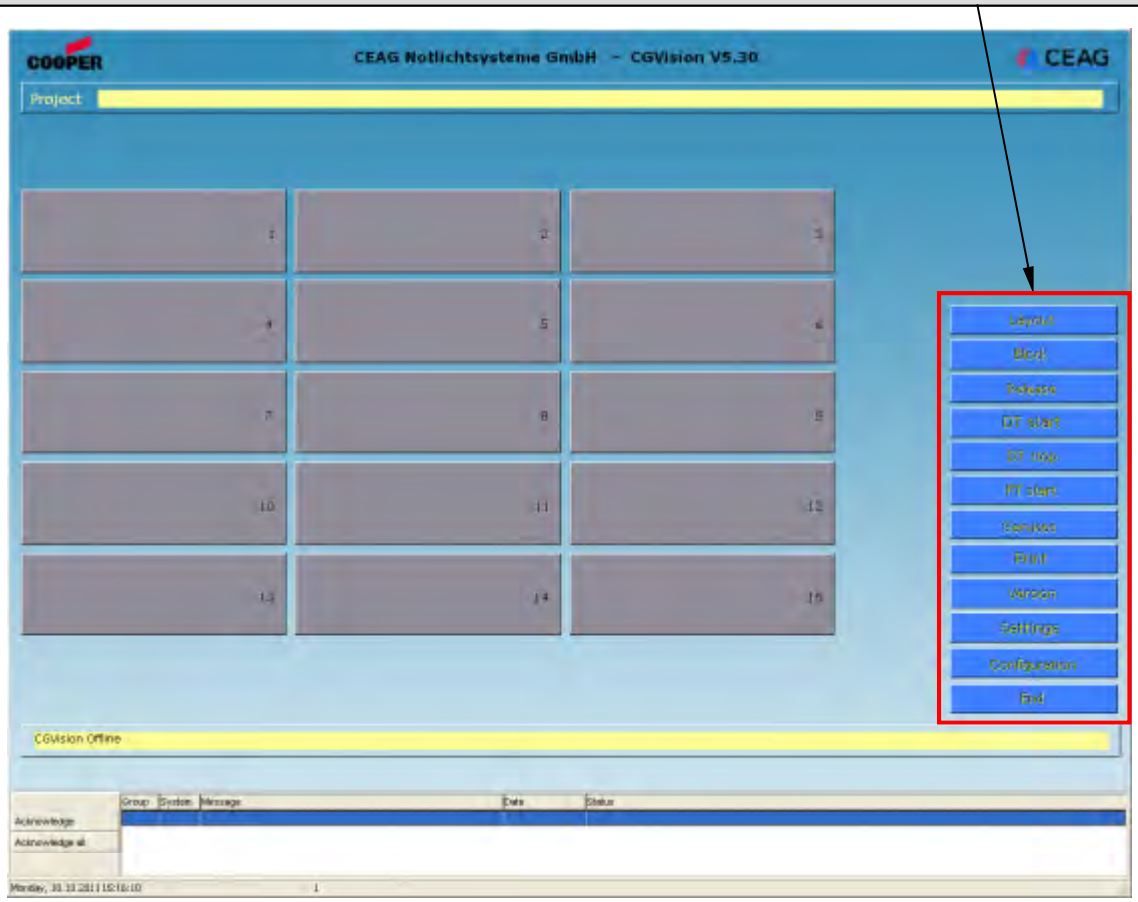


If an authentification in the mail server is required it must be activated here and the user name and password entered.

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.

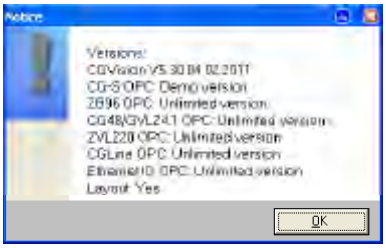
g). 'Services'
Compressing and saving of the inspection book, and saving or opening of the program-/layout configuration

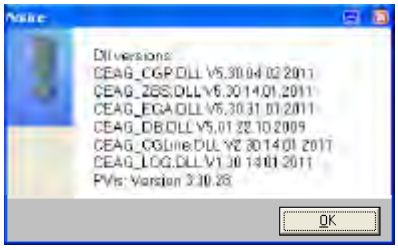
h). 'Print'
A screenshot of the current screen is printed

i). 'Version'
Screen 1) Display of existing licences
- Demo version = 2 hours demo running time
- Unlimited version = Licence released

Screen 2) Specification of current software versions

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





With technical queries please always specify the above software versions.

j). 'Settings'
Modification of program language, entry of licence key, activation of special functions. See 2.2.2: 'Basic pre-settings'.

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

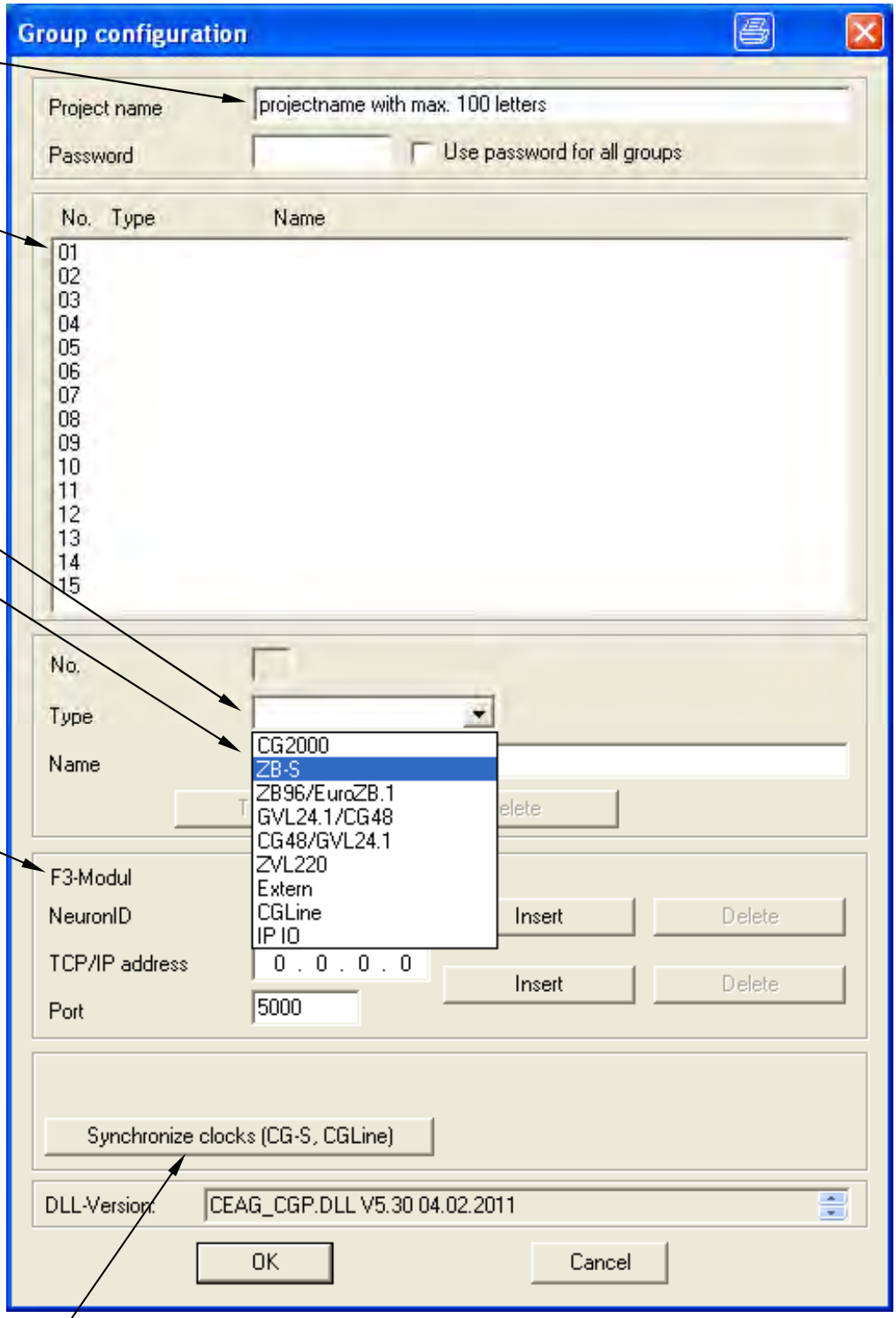
Entering of a project name (max. 100 characters) and possibility of setting password protection for configuration modifications. Password can be defined for all device groups via the checkbox.

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.

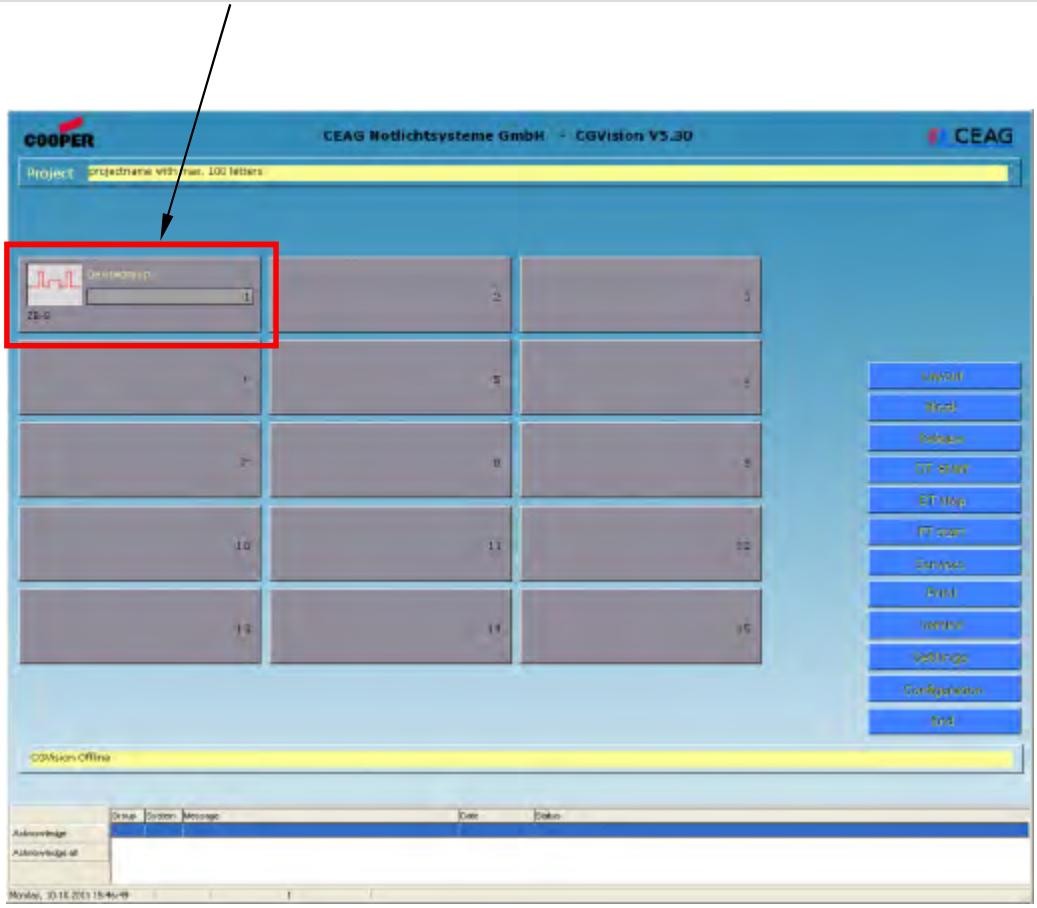
The 'Synchronise clocks' button enables all connected CG-S systems to be manually coordinated with the CGVision system clock.



l). 'Exit'
Exits CGVision.

3.2.4 Adding a system group

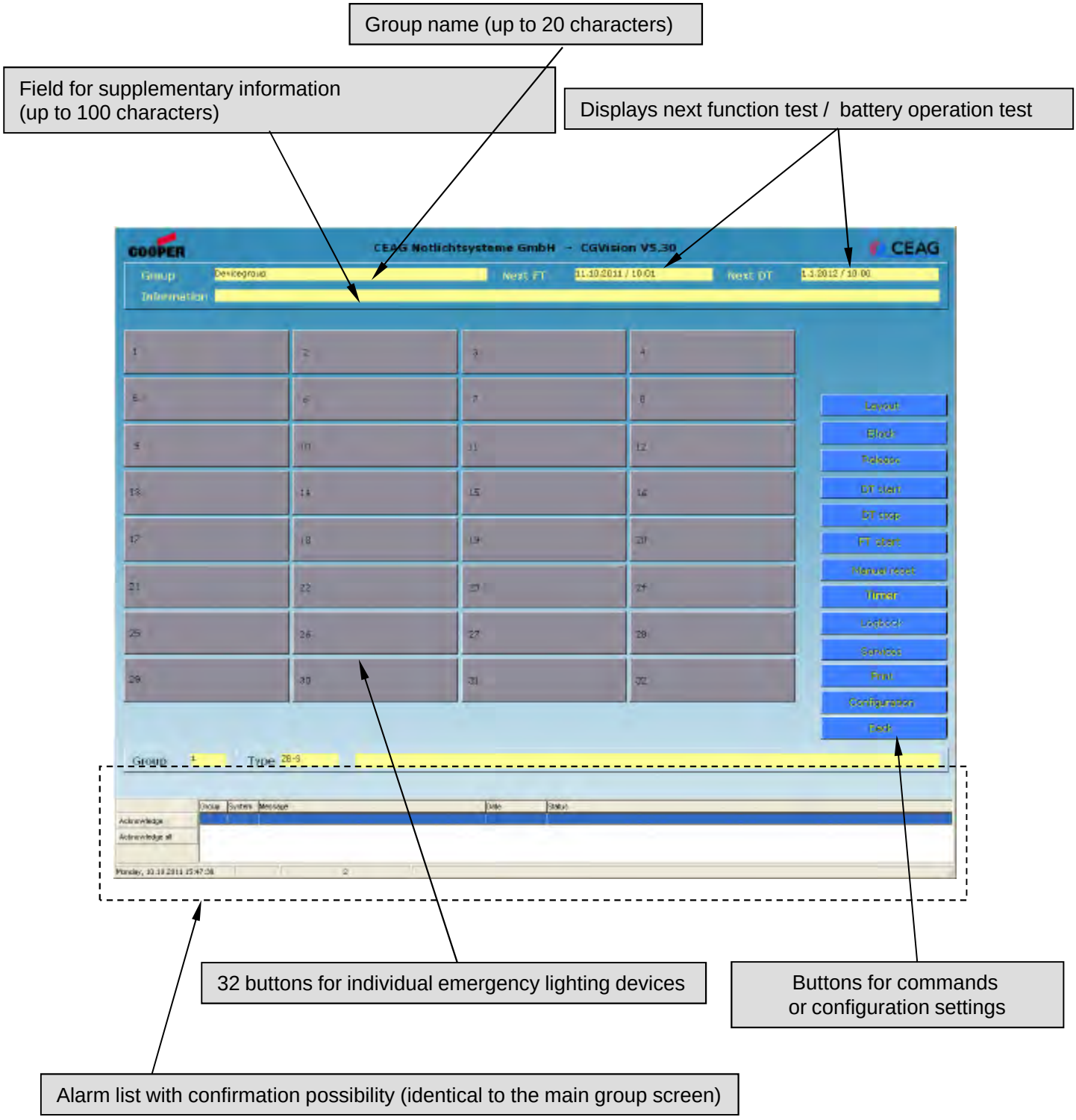
After a system group (device family) was added according to Point k) 'Configuration', e.g. ZB-S, this is displayed in the assigned button. This button is now active, and when it is clicked the next screen opens: **'System group screen'.**



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.

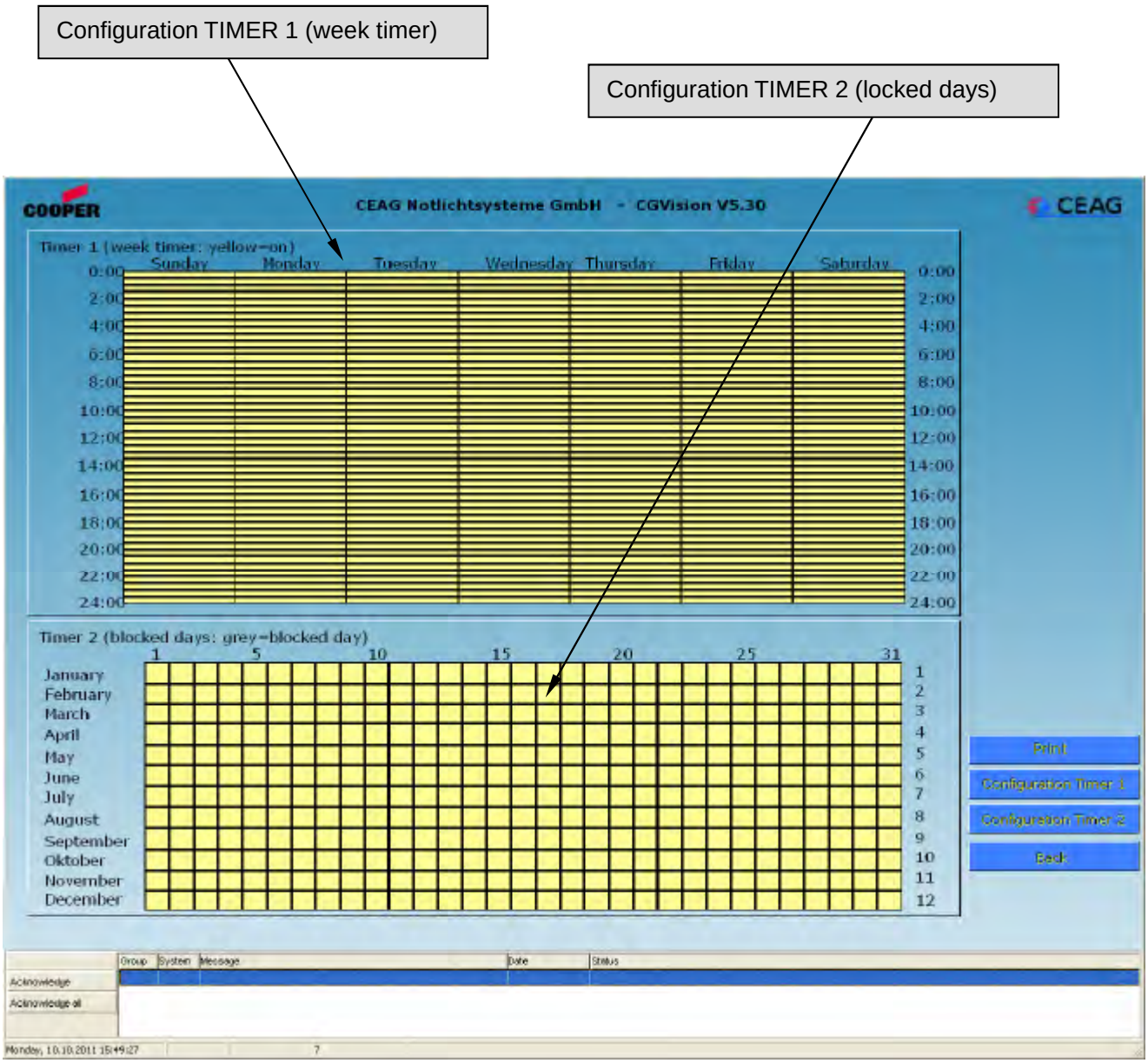
l). 'Configuration'
Configuration settings for all data in the system group screen.

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

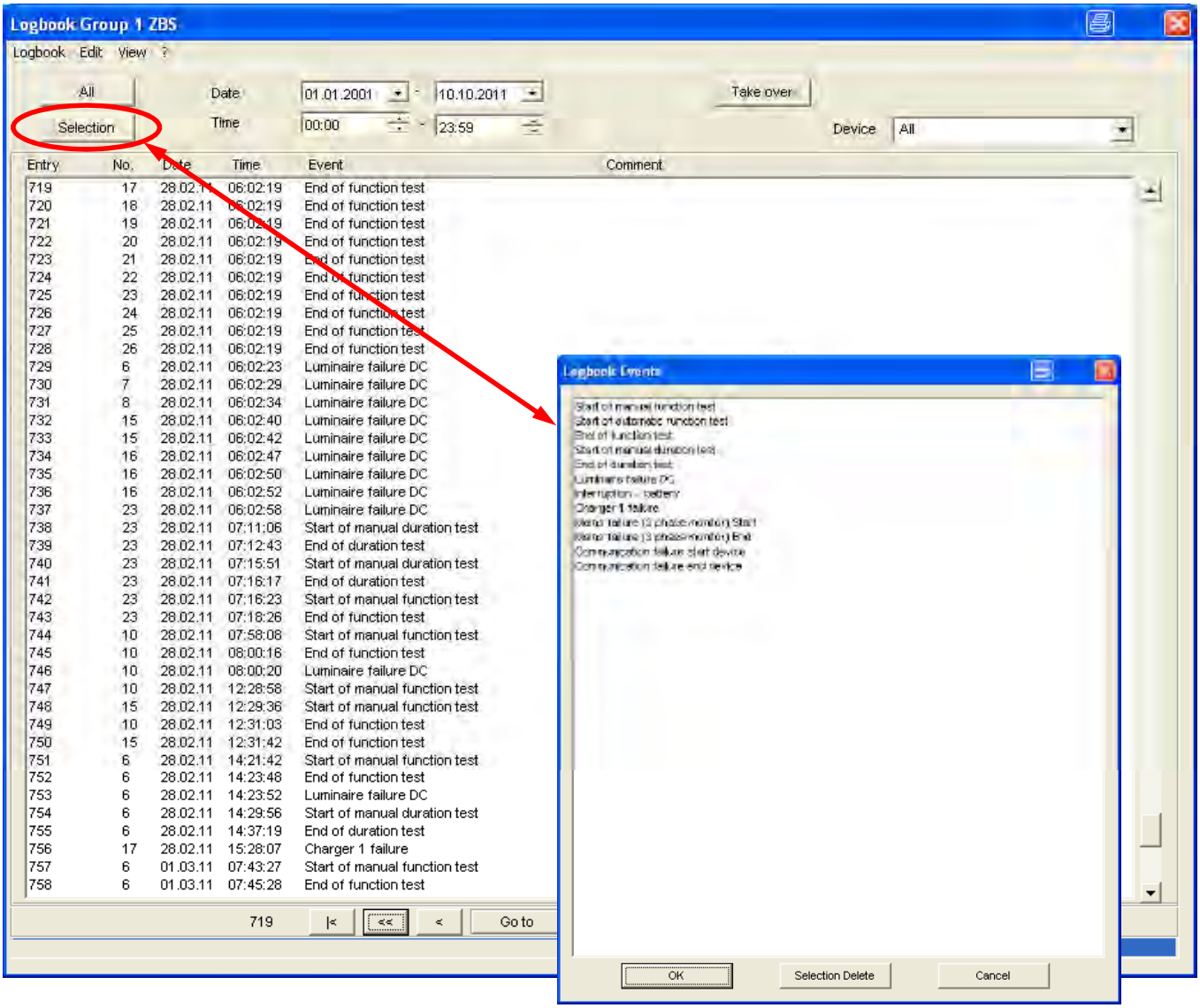
h). 'Timer'
Configuration menu for Timer 1 and Timer 2



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.

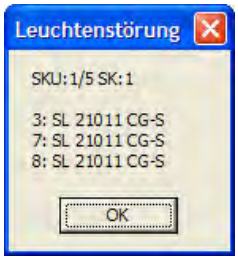
TIMER 2:
Timer 2 enables the circuits or luminaires with maintained light programmed
for this to be switched off for specific days, for example on weekends or bank holidays when the building is unoccupied or not in operation.
Configuration is carried out with the 'Configuration Timer 2' button.
(ON =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

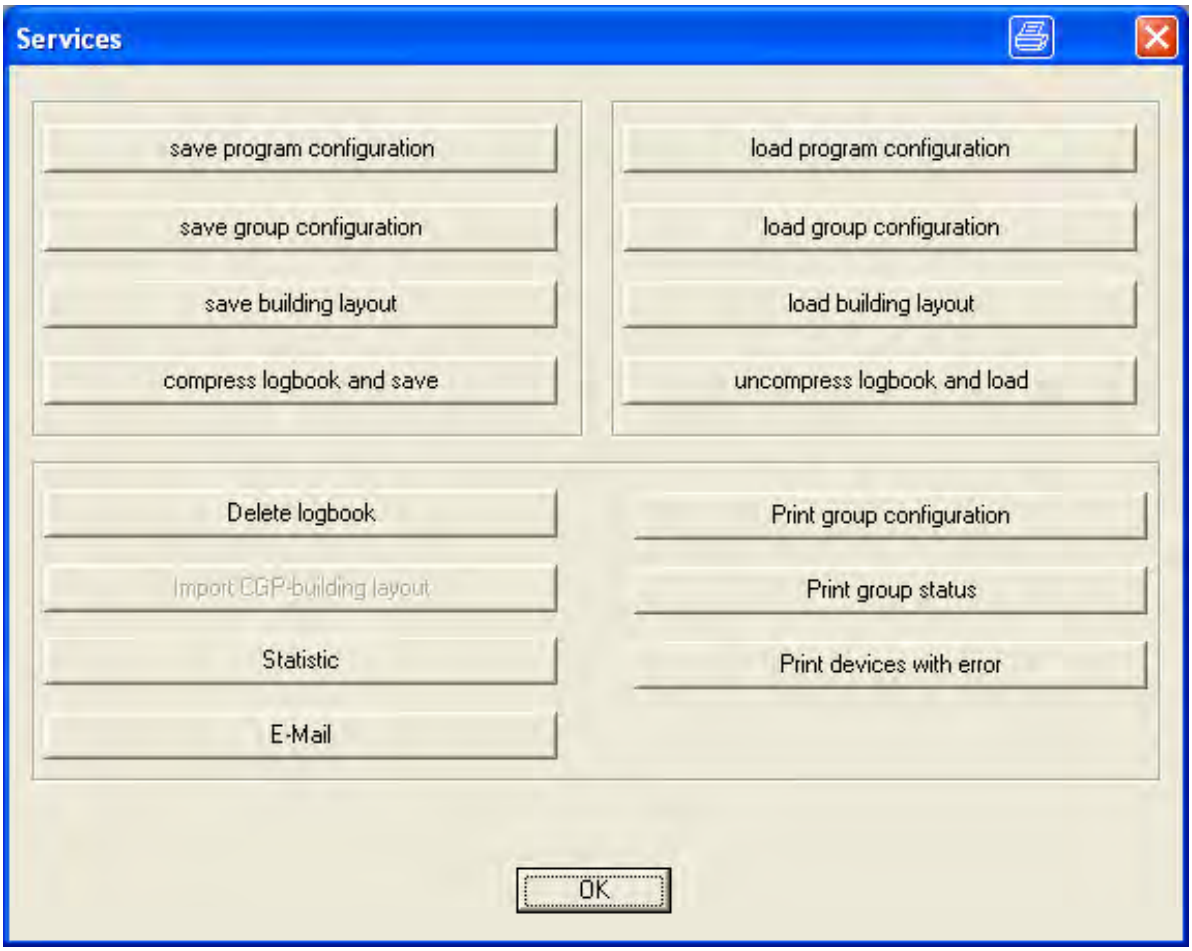


Furthermore, inspection book entries can also be selected according to date and time, for example to check what has occurred on a particular day.

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.

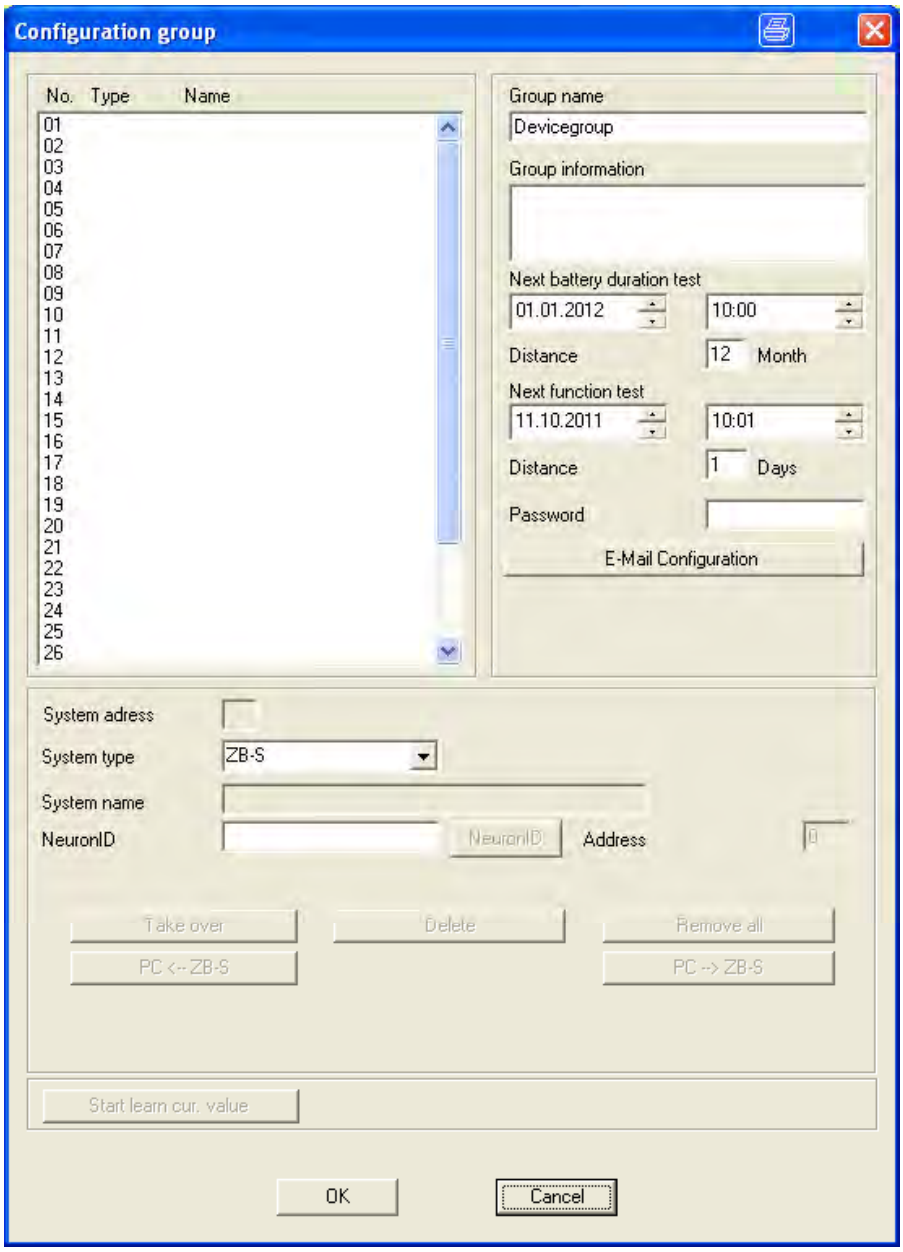
-With the optionally available layout programming (licence), it is possible here to save the layout programming to hard disk or to reopen if required.
-Various information can be printed via the 'Print' buttons:
- Print group configuration, e.g. for audit documents
- Print group status, with information 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:**

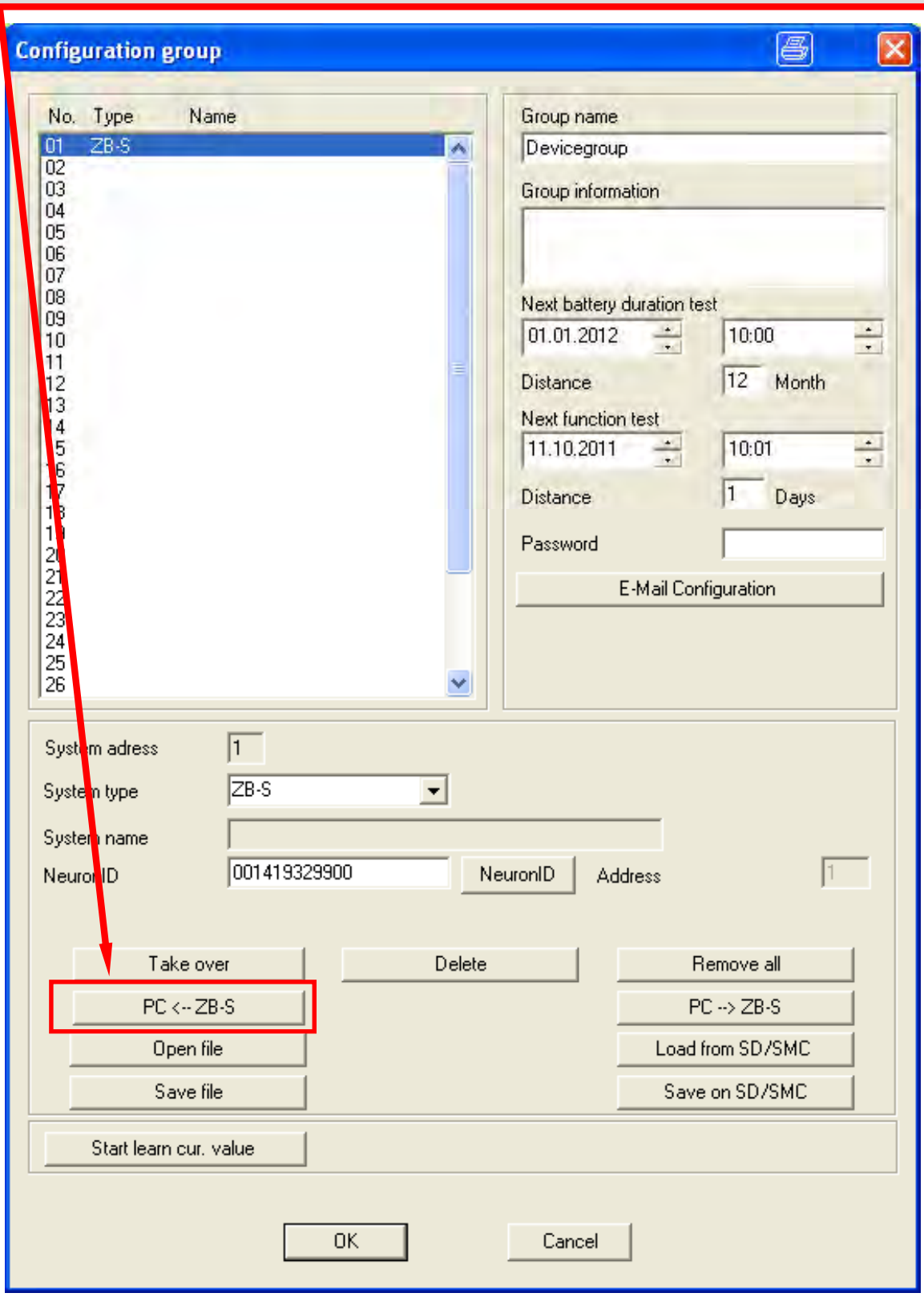
Here connection is via a serial COM port, and this must be preset with CGVision according to connection of the corresponding line at the COM port, e.g. COM 6.
The system number in CGVision and the device address at the device must correlate.
The device address can be set at the device at the control 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'

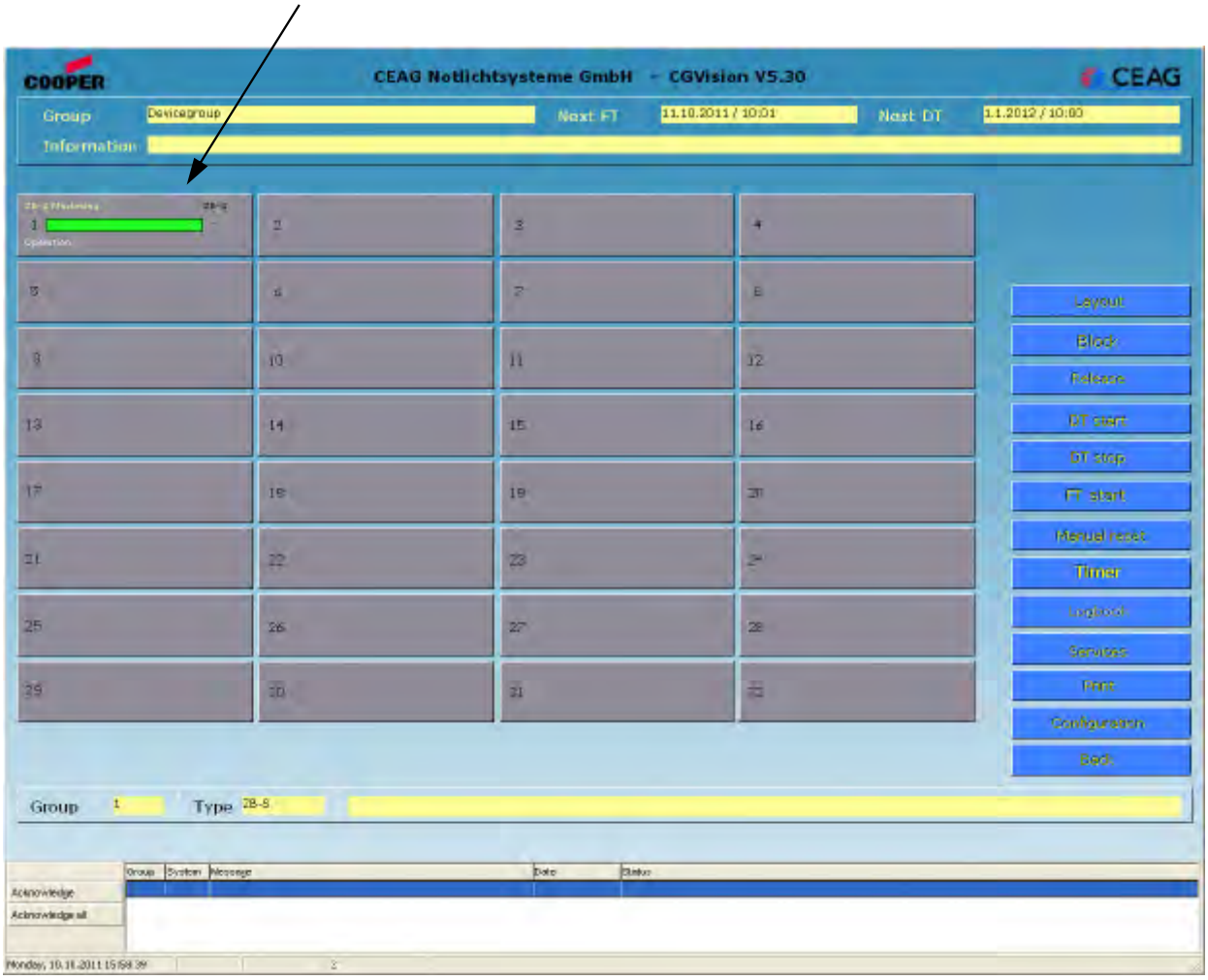
Opening the complete system configuration

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.



After a device was added according to Point l) '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:

400 71 347 386(E) – Section 3 / 09/10/11/ CE
-Technical alterations without notice!-

CEAG Notlichtsysteme GmbH

Senator-Schwartz-Ring 26
D-59494 Soest
Telefon + 49 2921 / 69-870
Telefax + 49 2921 / 69-617
Internet http://www.ceag.de
E-Mail Info-n@ceag.de

COOPER Safety

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

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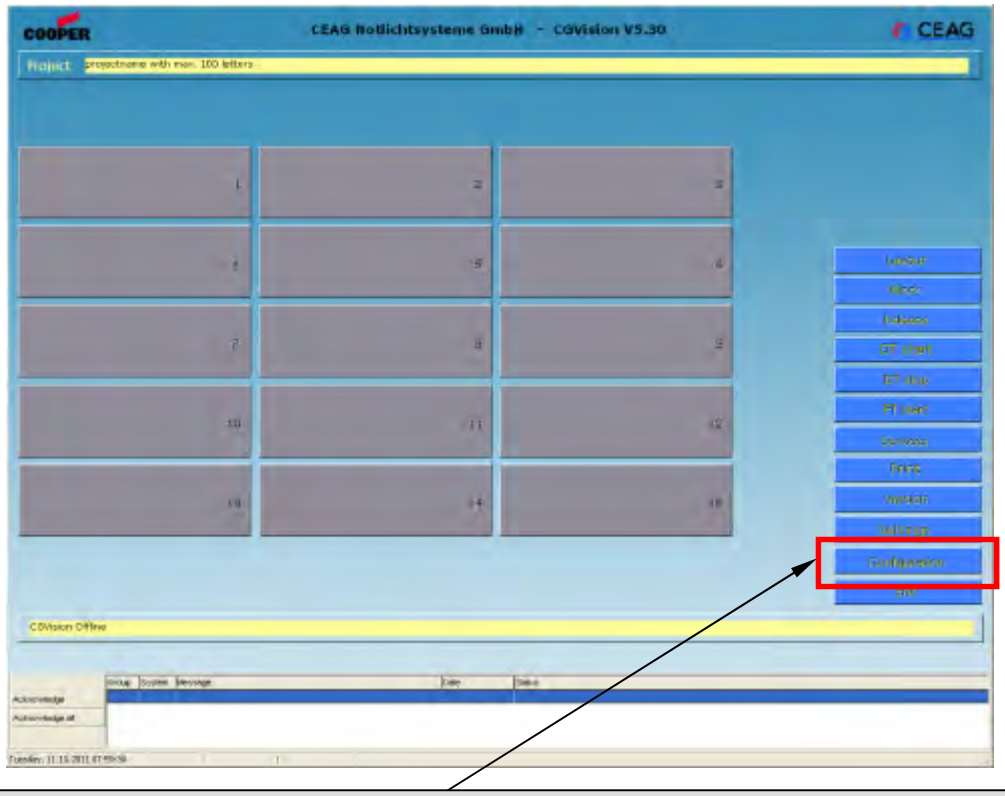
4 Device family CG2000

4.1 Configuring a CG2000 system group

4.1.1 Creating a CG2000 system group:



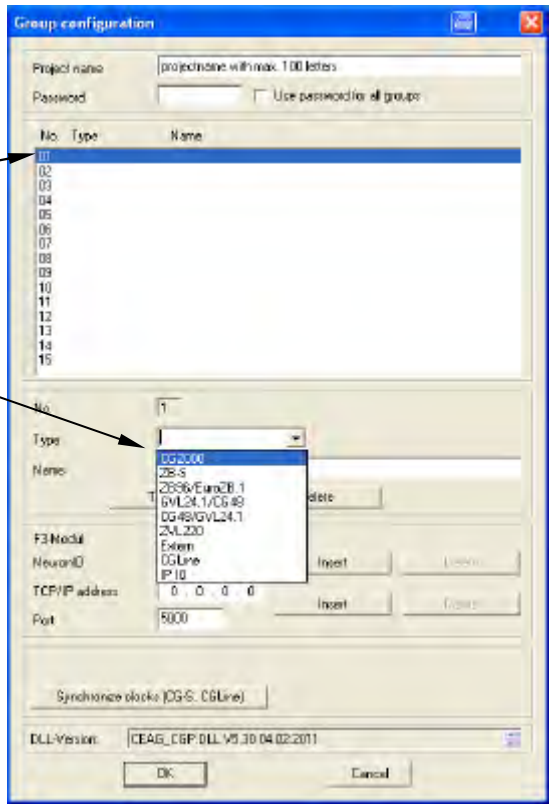
A new device family, e.g. CG2000, can be created via the 'Configuration' menu.

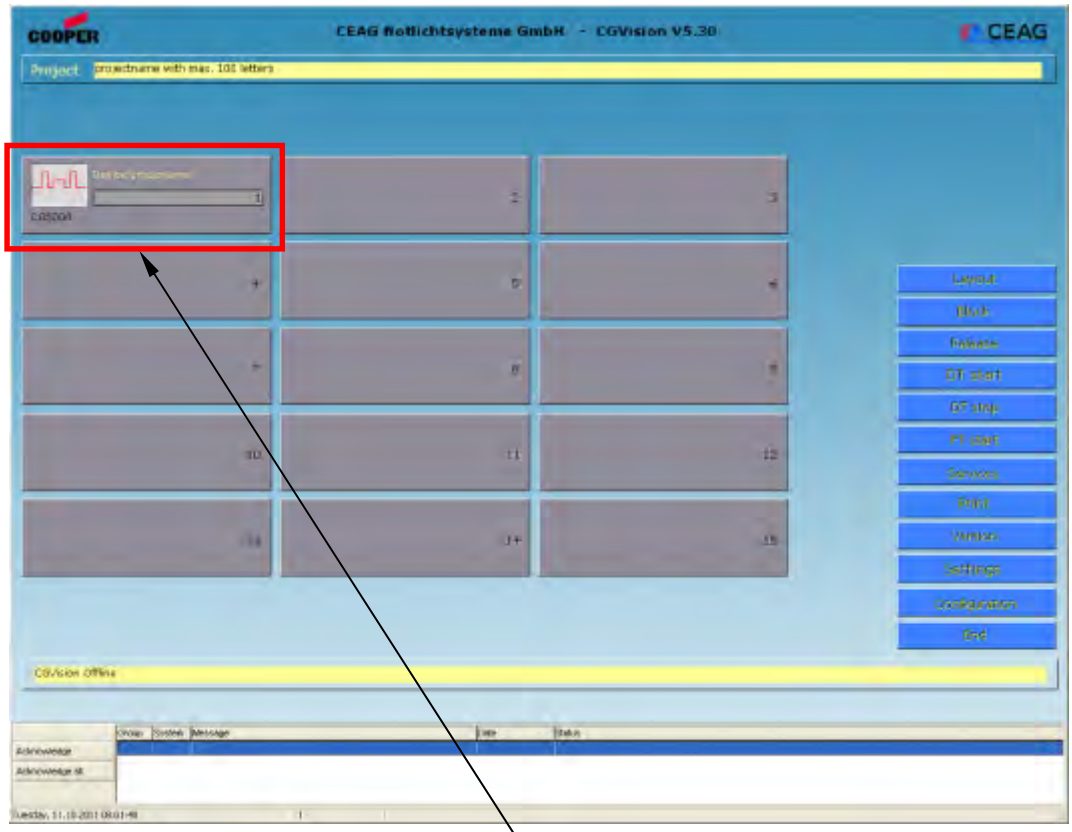
The group configuration menu is then displayed:

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

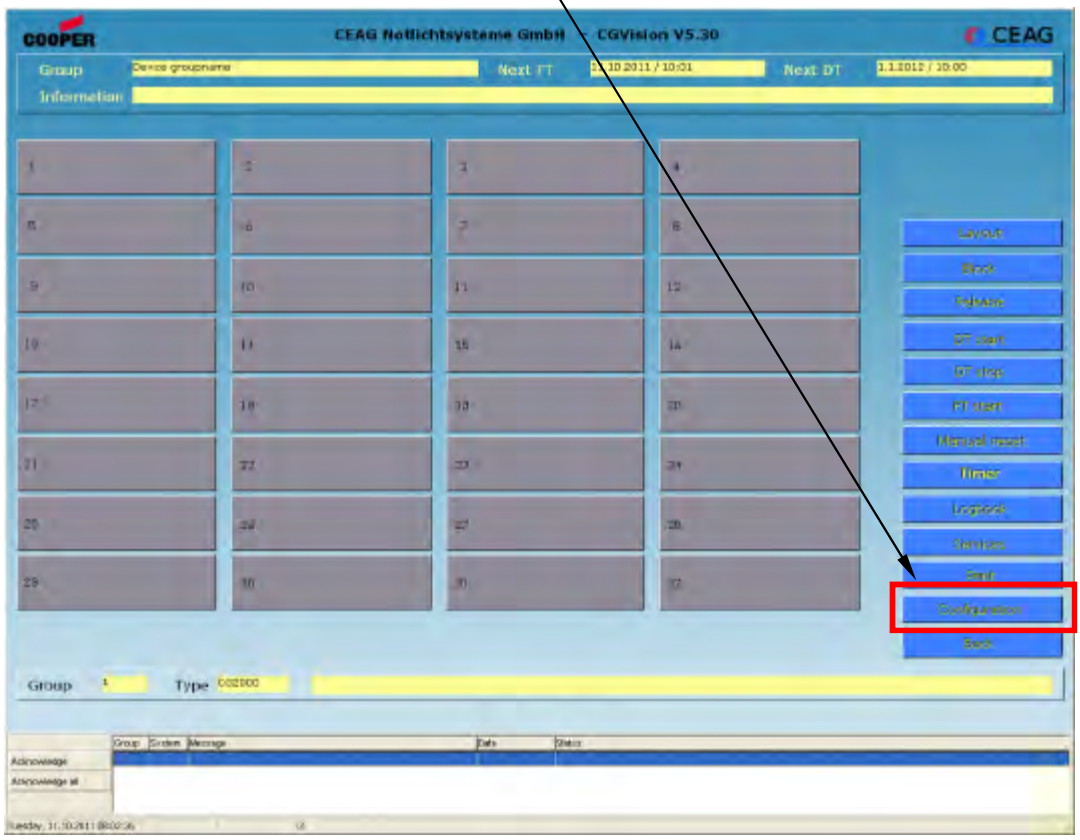
b) In the 'Type' drop-down menu the 'CG2000' system type can now be selected and a system group name can be assigned

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)

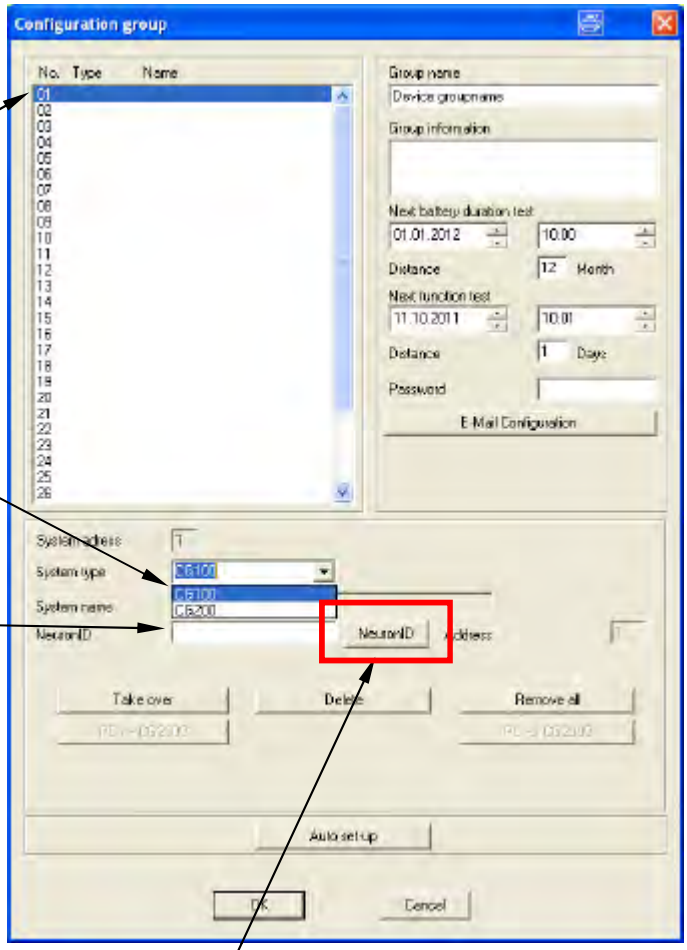
b) In the 'Type' drop-down menu the system type 'CG100' or 'CG200' can now be selected

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.

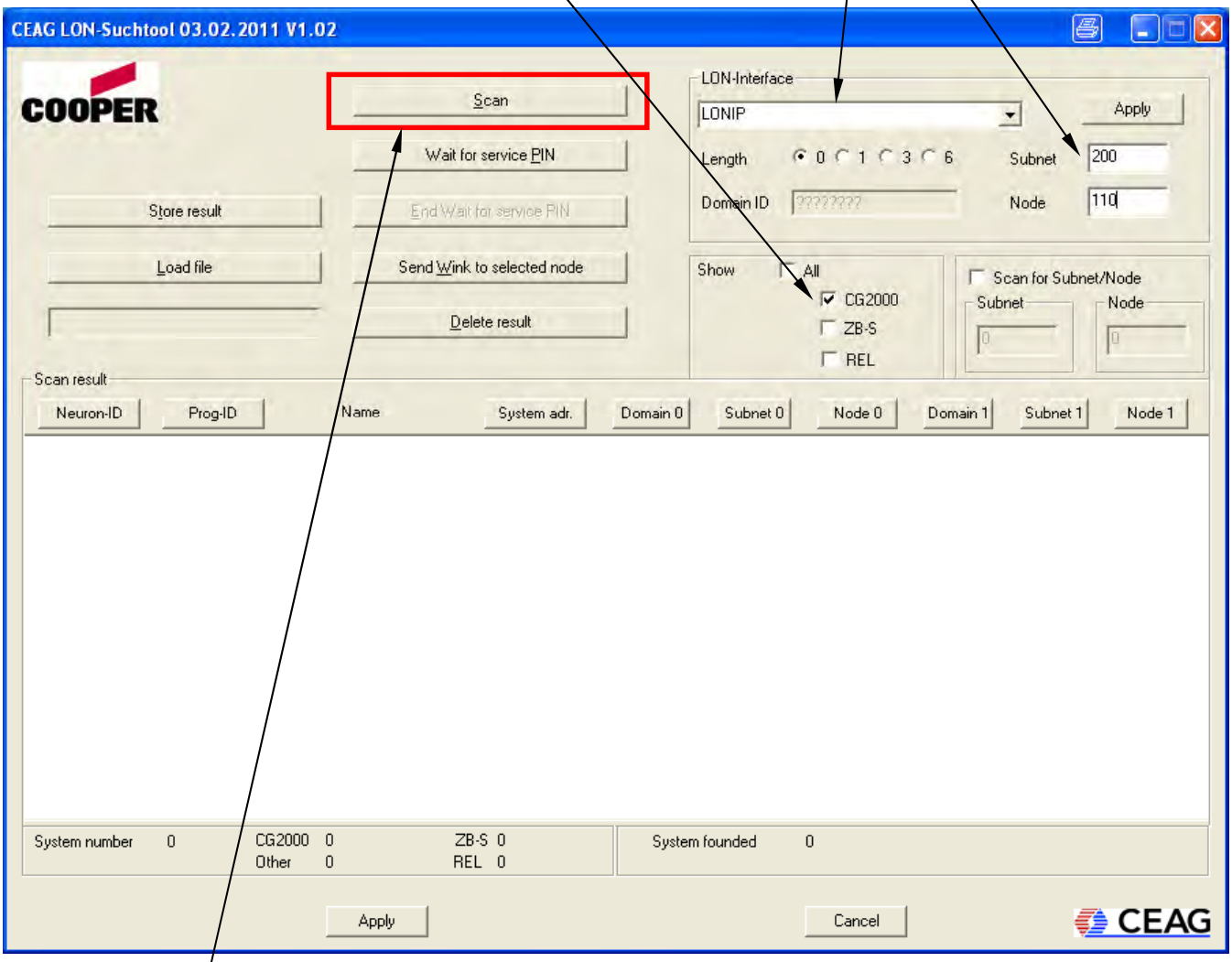


First entry of the Neuron ID via the new search tool:
The simplest method to add systems in CGVision is offered by a new search tool that carries out a network scan on the CG-S bus and lists all systems with a Neuron ID. To start the saerch tool, the desired device address (in the example address 01, 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'.

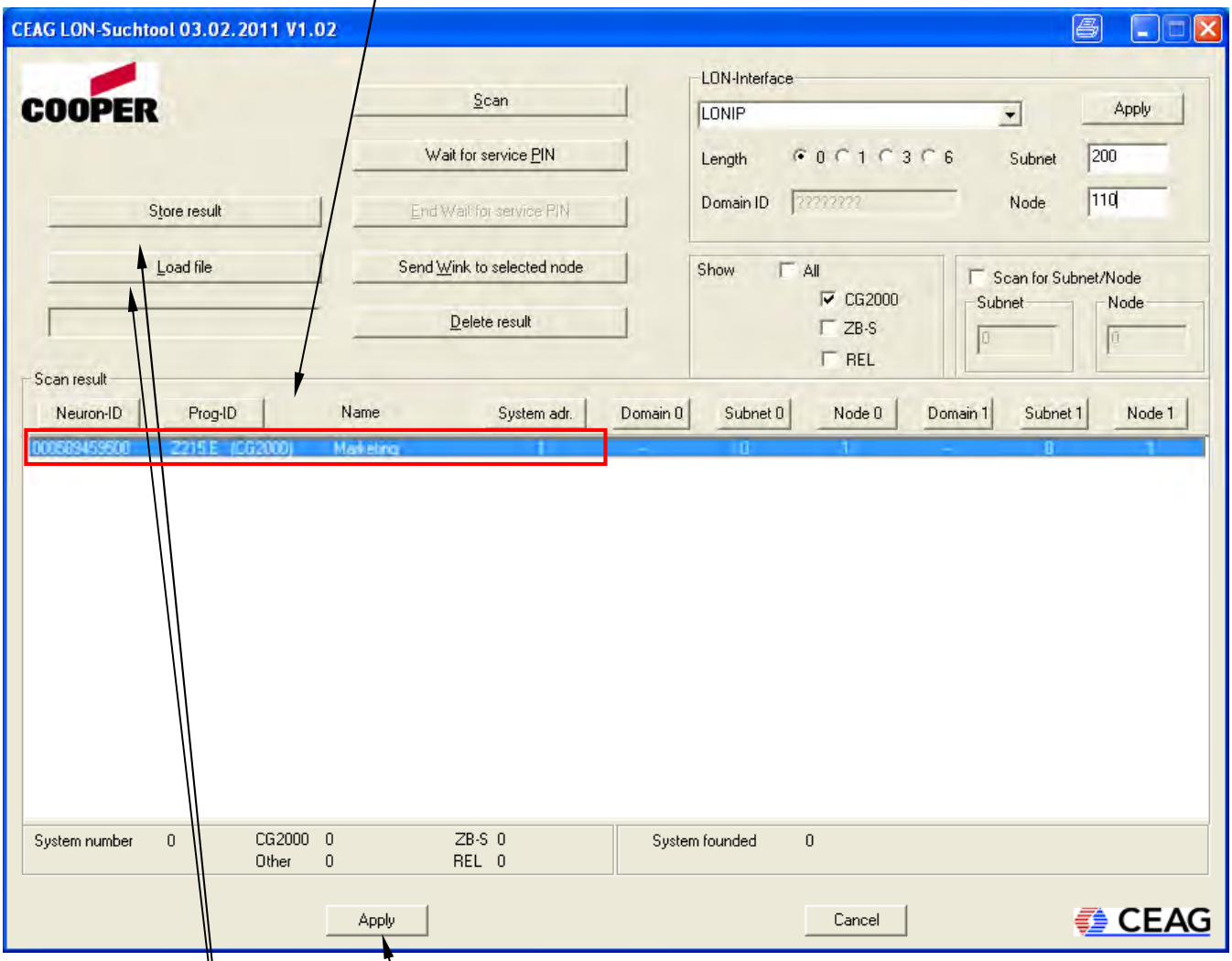
2. 'CG200' must be activated



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).

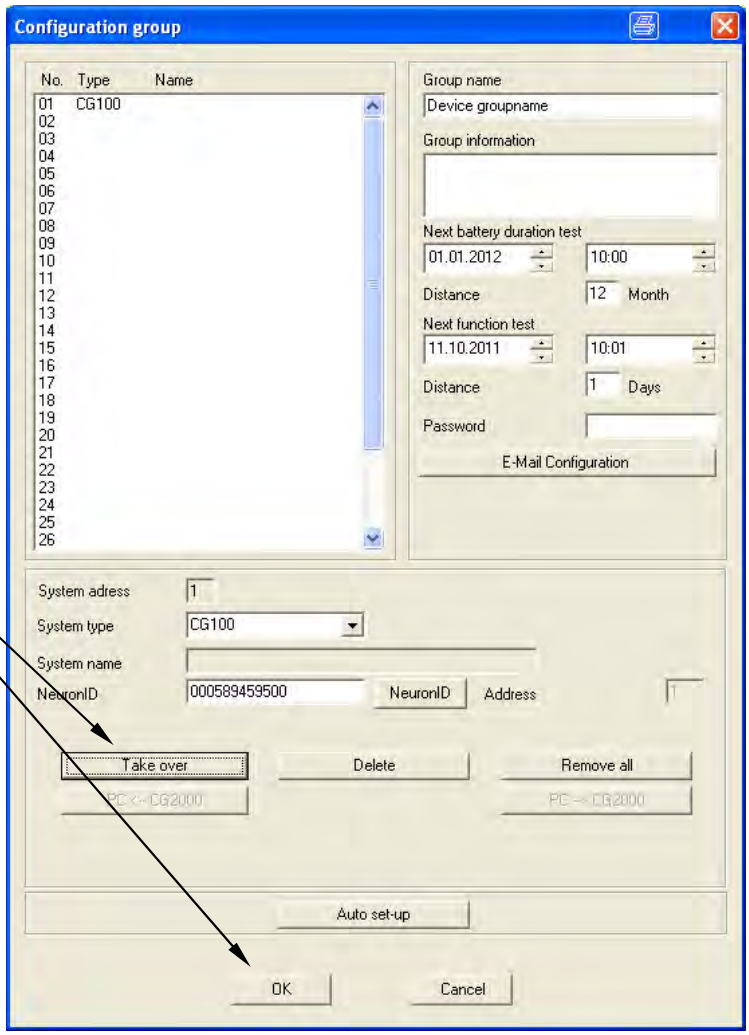
All CG2000 devices found are specified in the 'search results' list.
The Neuron ID, the software version with state (e.g. E), the system types CG2000, the device name (20 characters from the control unit) and the device address 1 to 32 are displayed as information.
The required CG2000 with the correct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



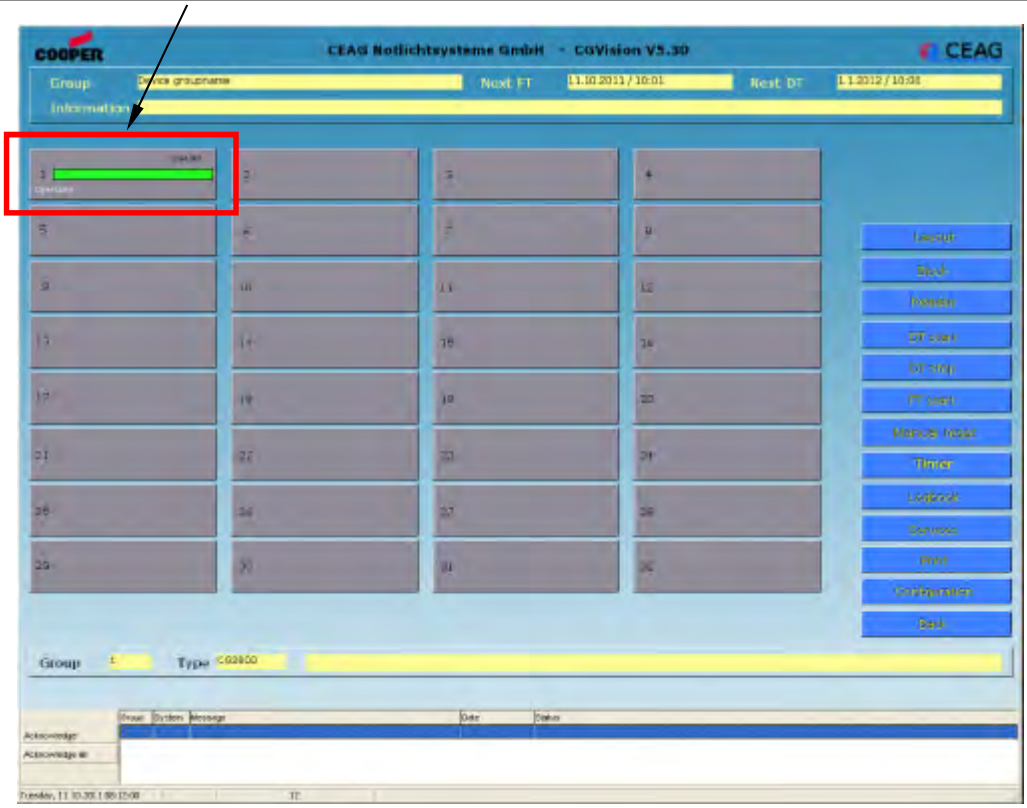
'Accept' automatically copies the NeuronID into the CG2000 configuration (next screen).

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.



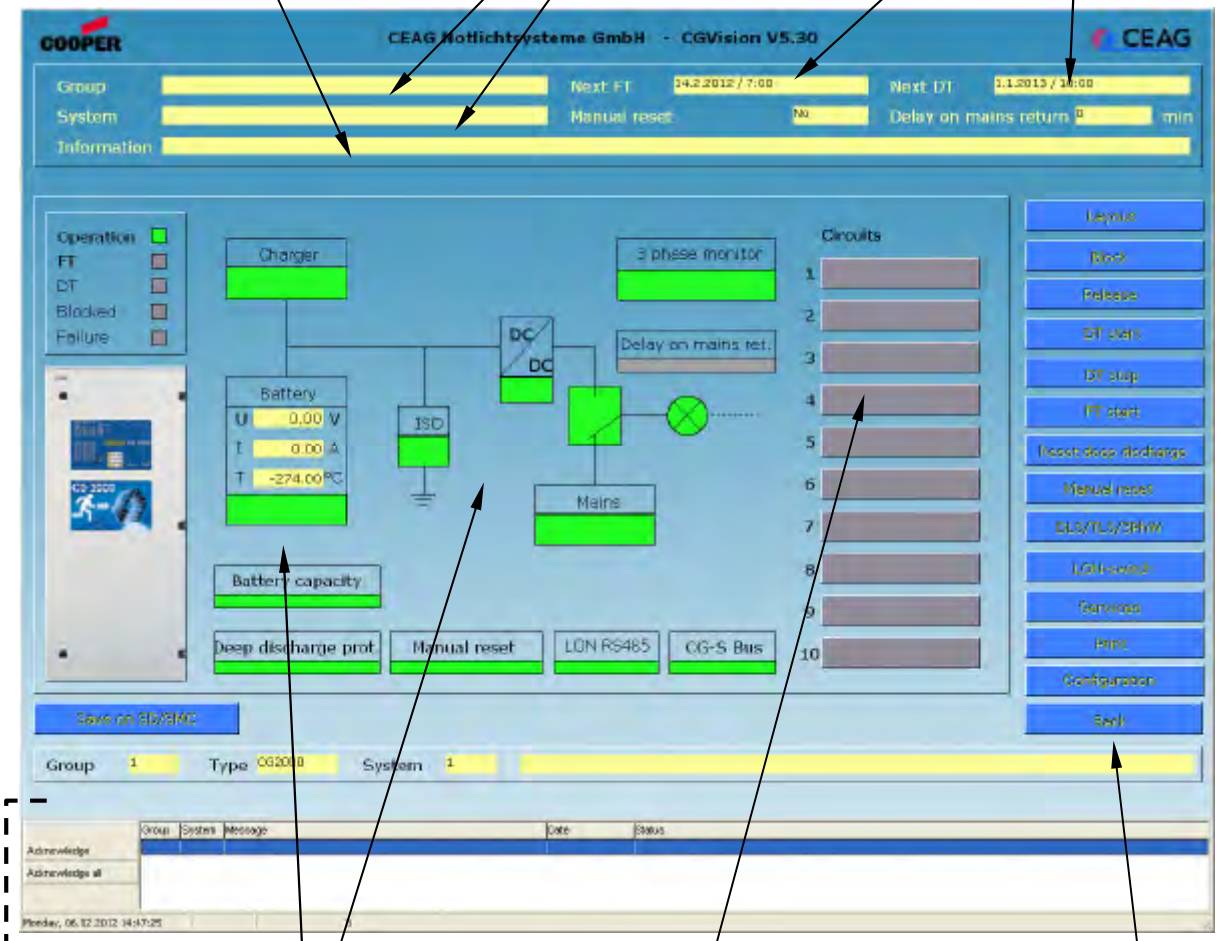
4.2 'Device screen – CG2000'

4.2.1 Structure of the device screen:

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



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

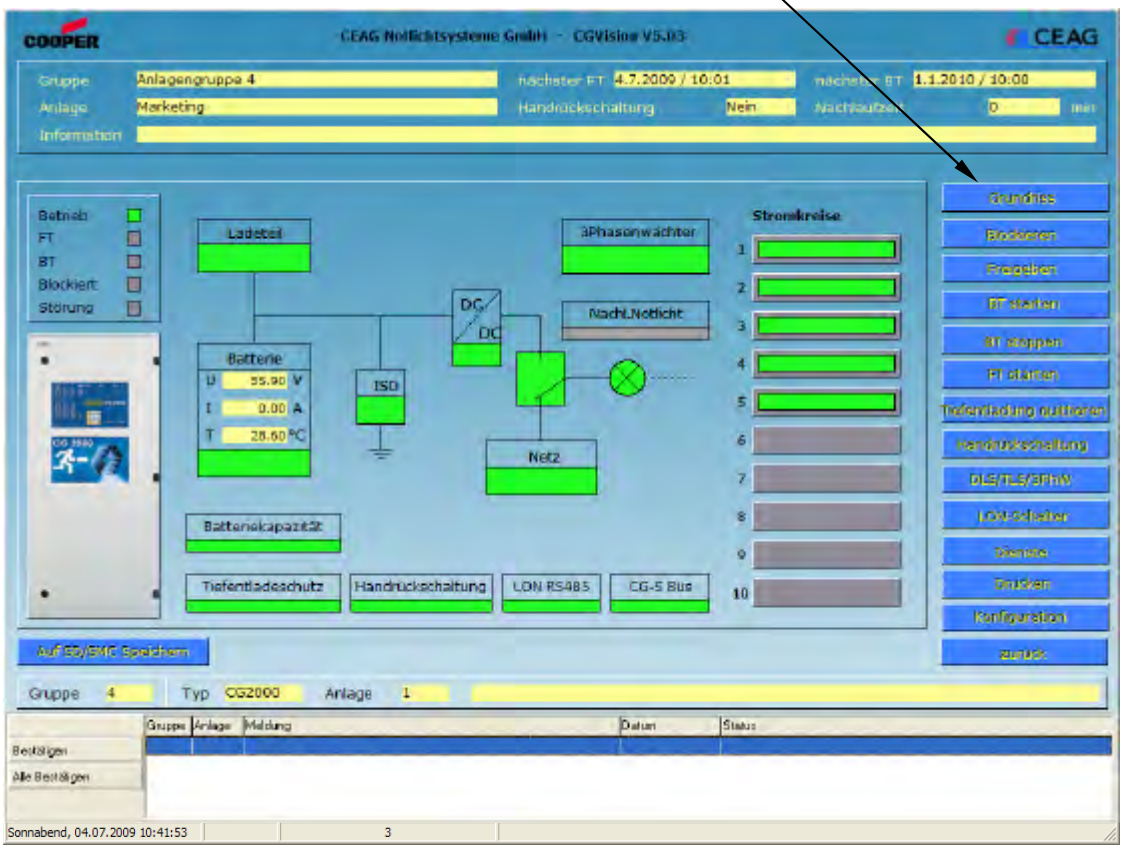
Buttons for commands or configuration settings

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

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

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

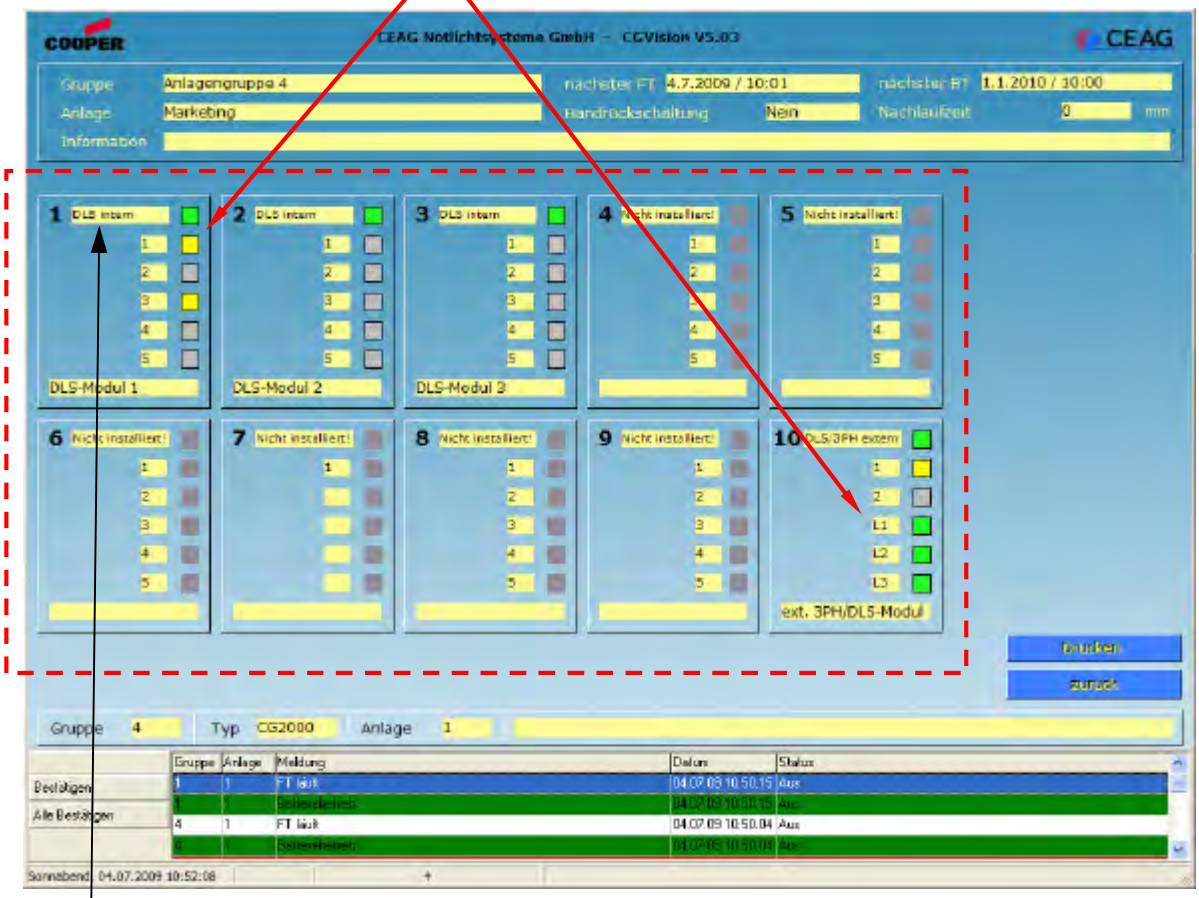
a). Calling up of the available layouts in this system group
(option must be released, see the 'layout programming' section)

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

i). 'DLS/TLS/3PhW'

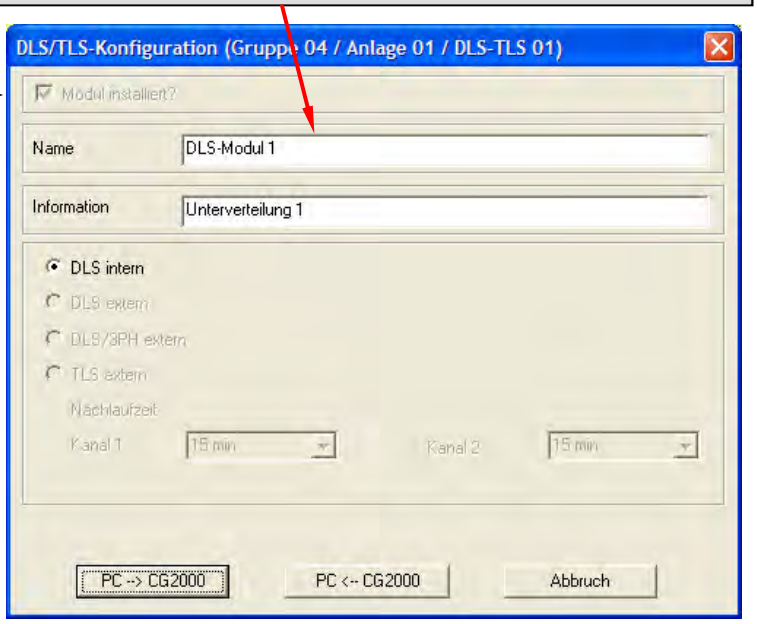
Menu for configuration of DLS / TLS / and 3-phase monitor functions

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)

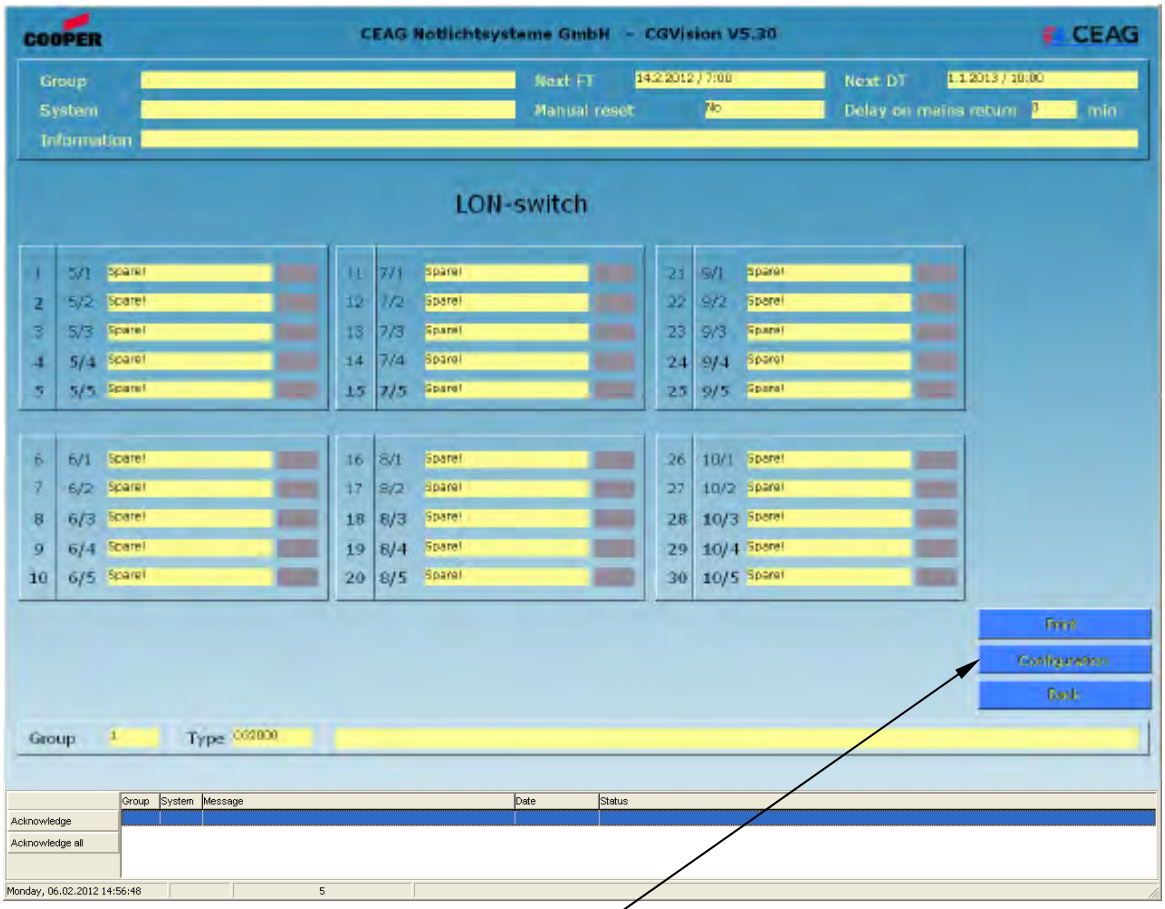
Open the configuration window by clicking the DLS name



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

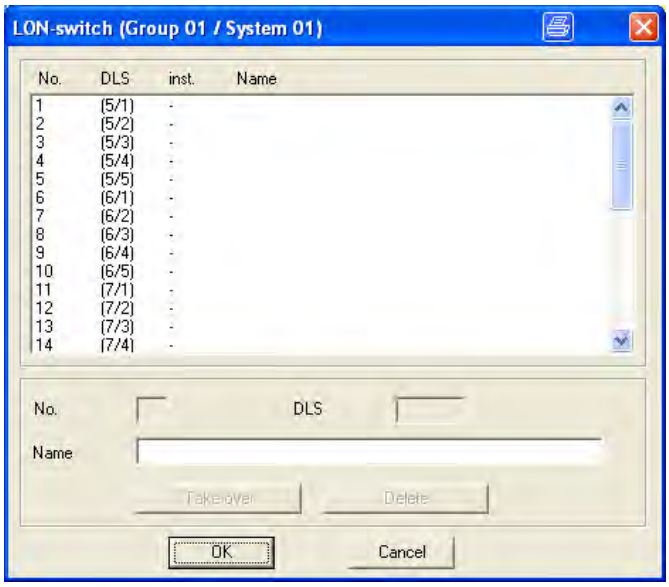


Configuration of external LON sensors:

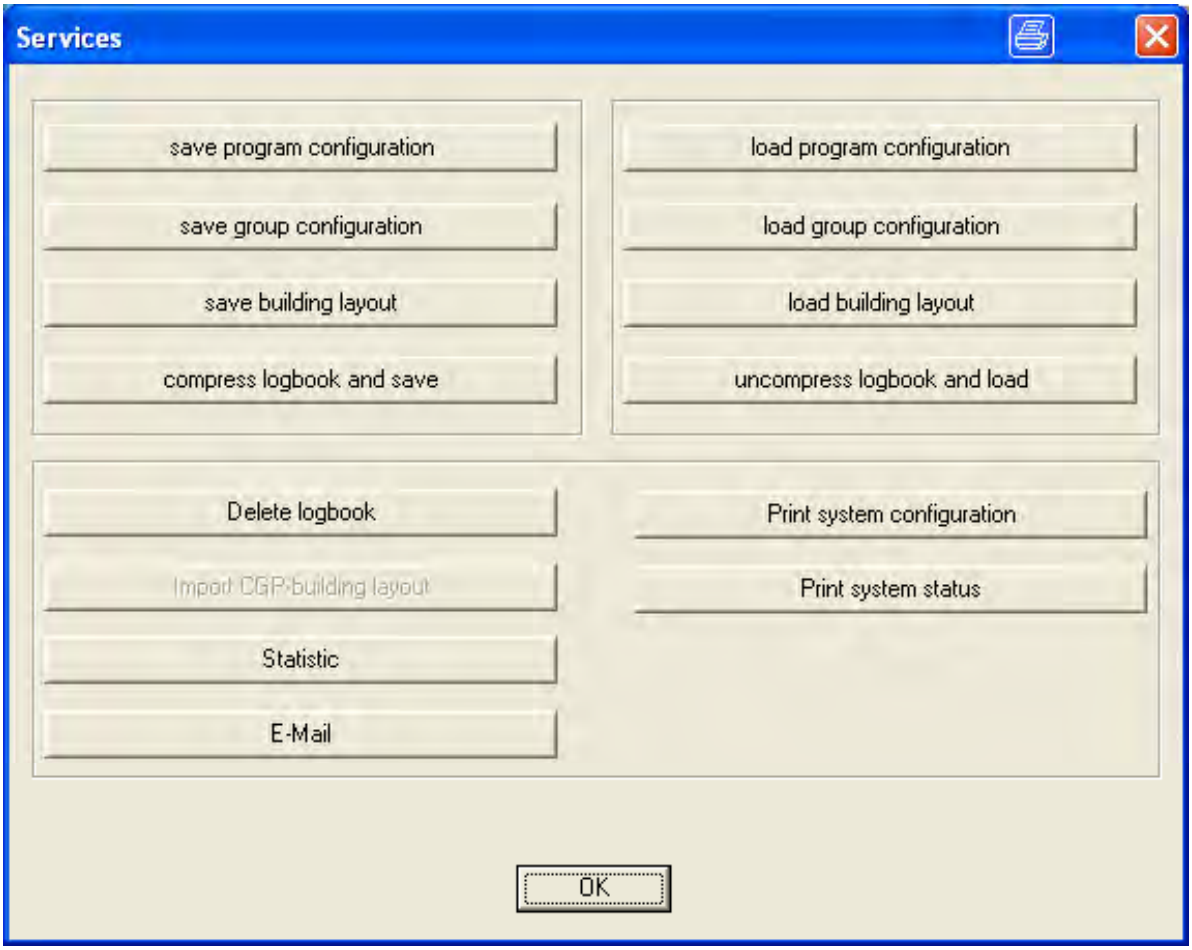
Up to 30 external LON sensors
(e.g. switches) can be assigned to the DLS addresses.
Here, due to software, the addresses
of DLS modules 5 - 10 are used, meaning
LON switch No. 1 uses the DLS address
module 5 - input 1 etc.
IMPORTANT!:
It is not possible to simultaneously
use a DLS address from the LON 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
l.) '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'.

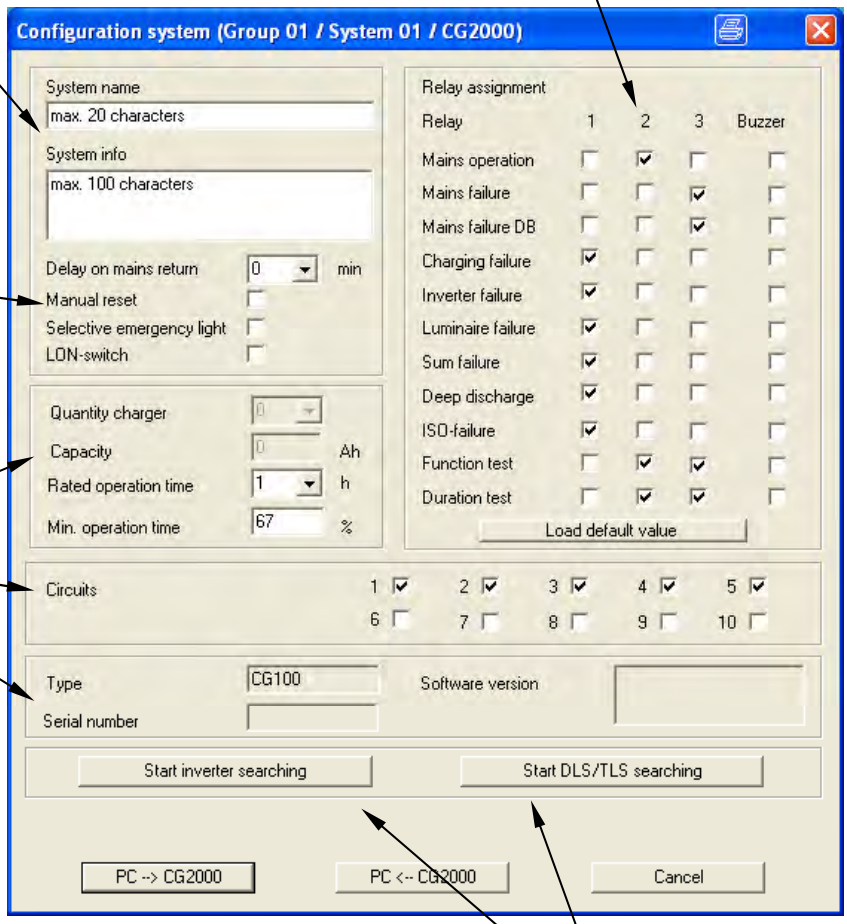
m). 'Configuration of system' (device)

Free configuration of the zero-potential relay contacts and buzzer

Entry of device name and supplementary information

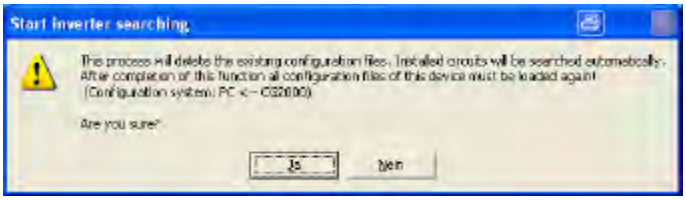
Activation of special functions e.g. activation of external LON sensors (switches etc.)

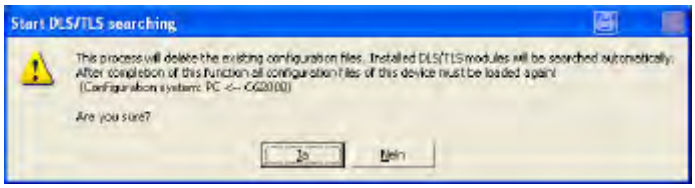
Supplementary information:



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.

<u>Option: converter search and DLS/TLS search</u>
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
<u>Converter search</u> <u>DLS search</u>

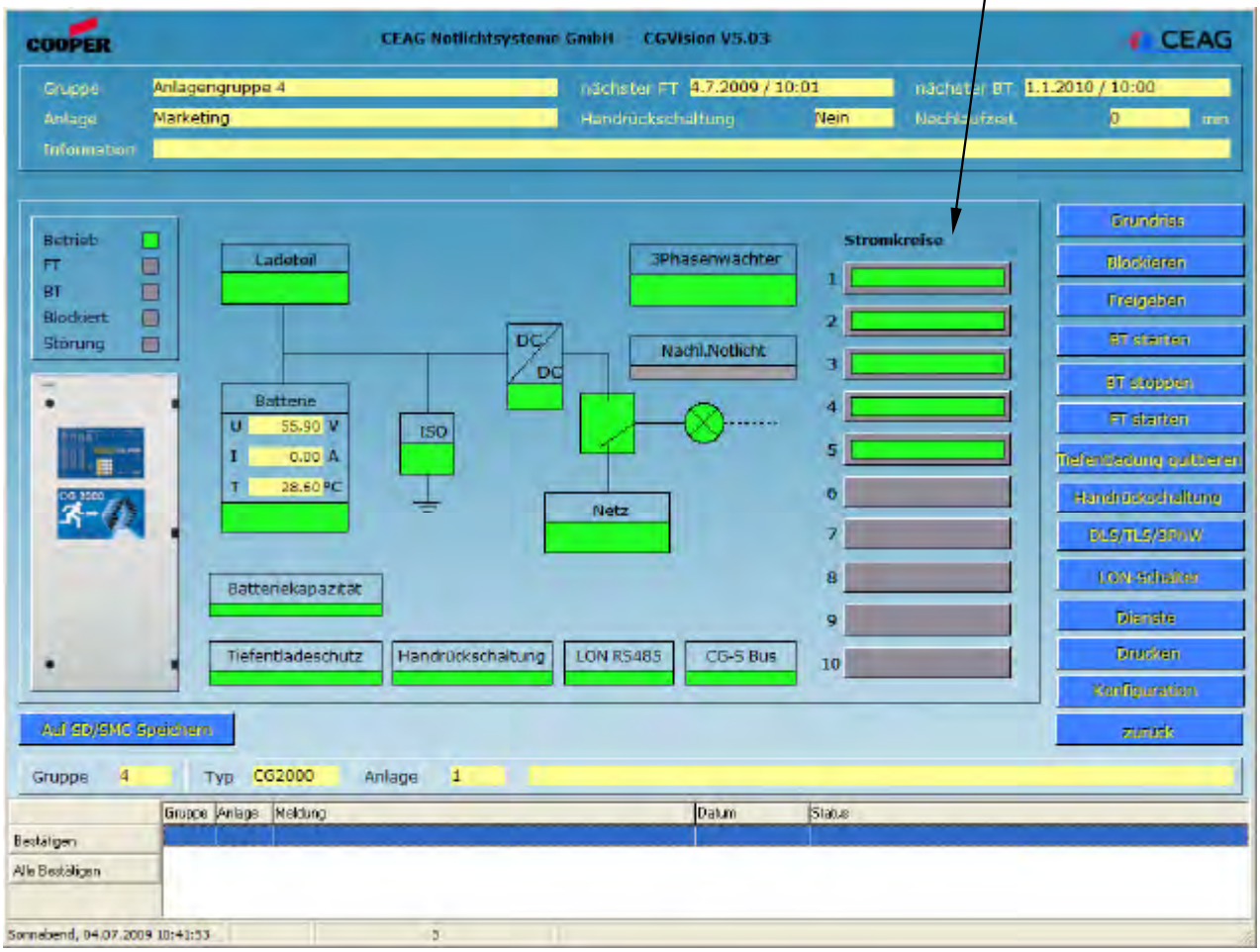




4.3 'Circuit screen'

4.3.1 Structure of the circuit screen:

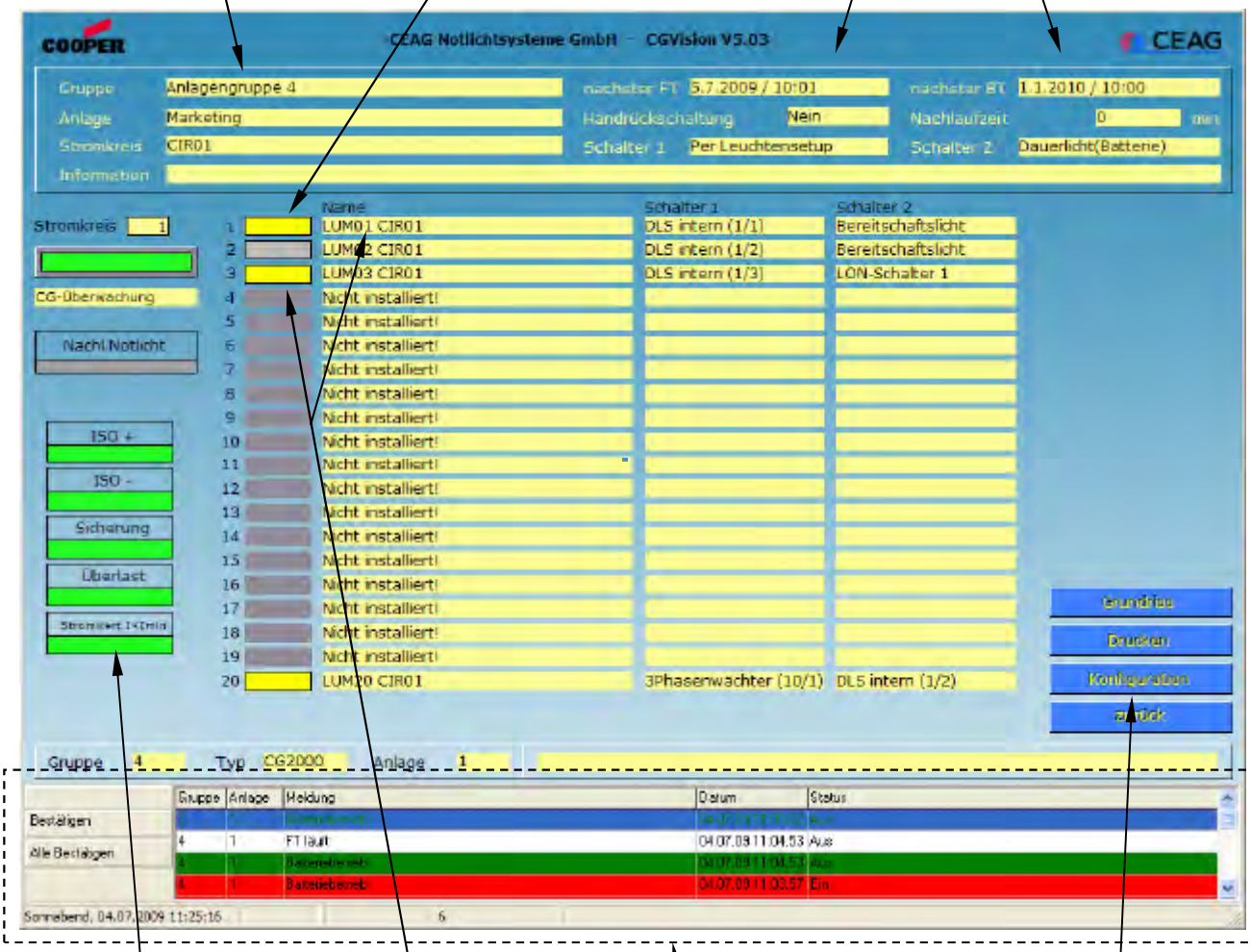
Installed circuits are displayed by colour-highlighted buttons.
By clicking a button the corresponding circuit level opens (circuit screen)



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

Displays next FT/BT and further circuit configurations

Buttons for luminaire configuration (per luminaire)



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:

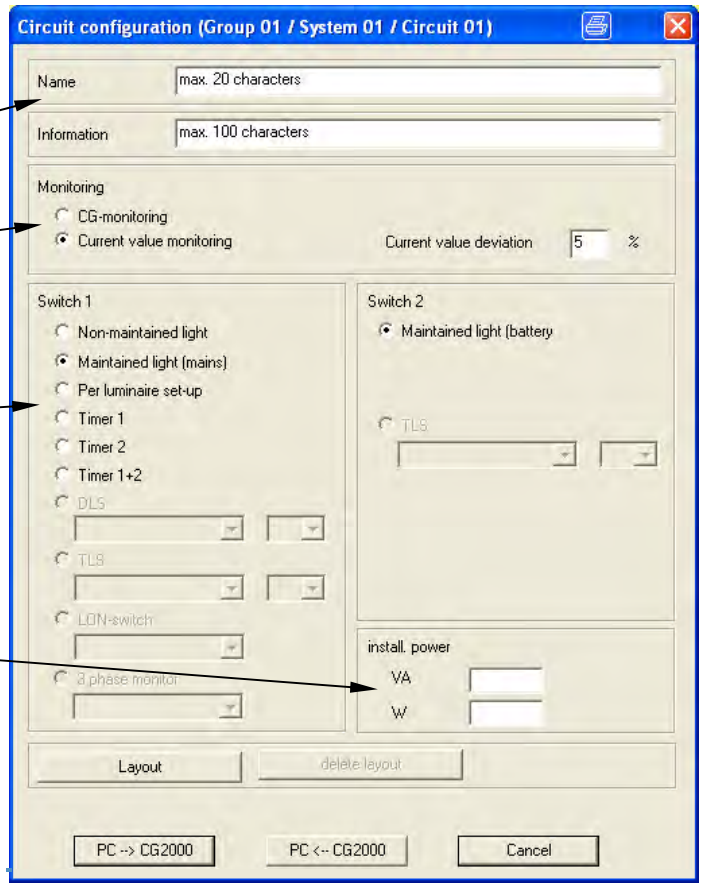
Entry of circuit name (max. 20 characters) and supplementary information (max. 100 characters)

Specification of monitoring type

Circuit programming

For explanation see device operating instructions

Entry of installed load in the circuit

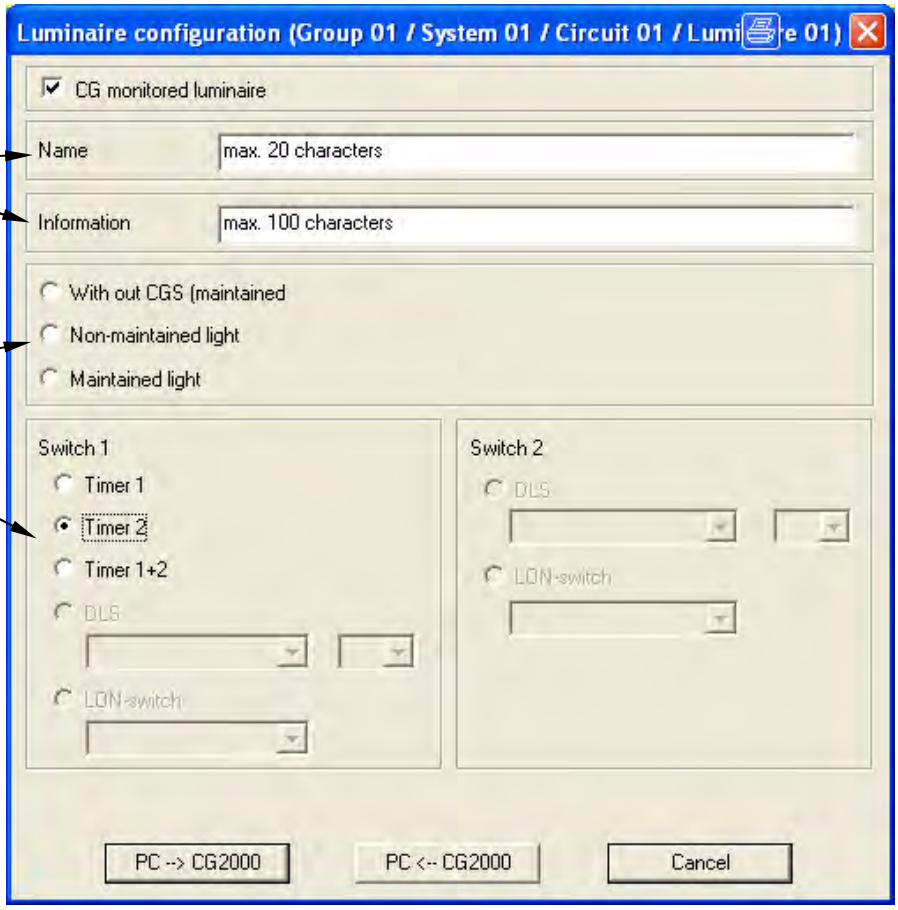


Luminaire configuration:

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

Switching type or switch assignments

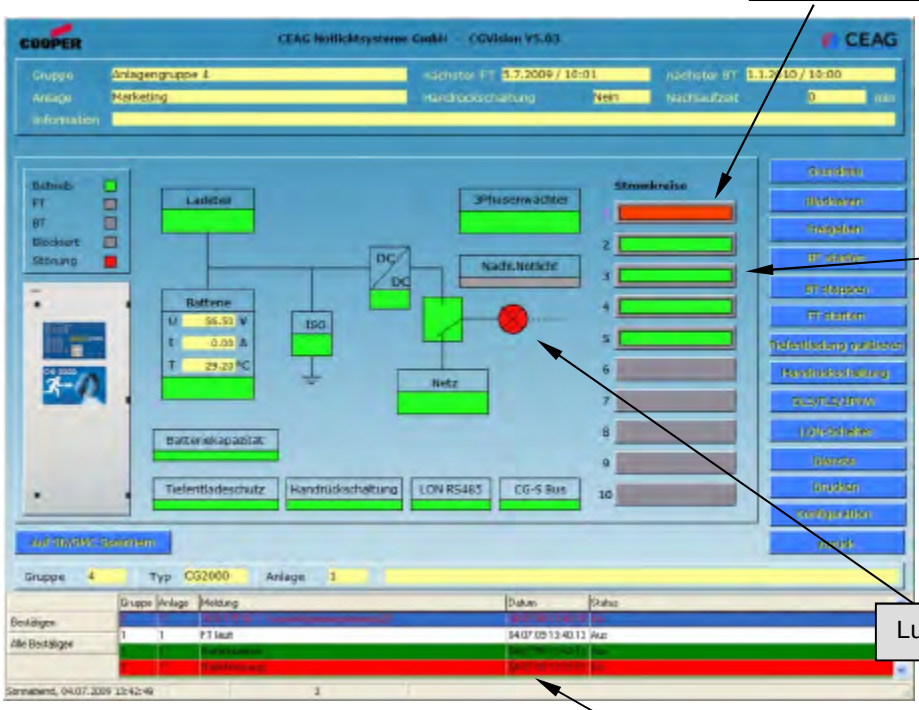
For explanation see device operating instructions

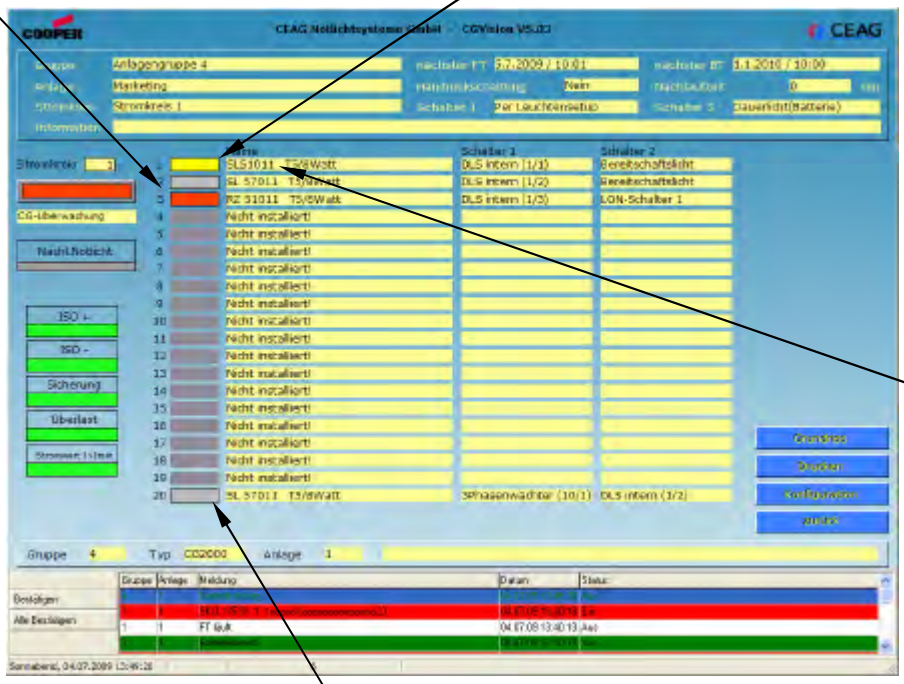


4.4 General display options

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:





Notices:

Notices:

400 71 347 387(E) – Section 4 / 01/02/12/ CE
-Technical alterations without notice!-

CEAG Notlichtsysteme GmbH

Senator-Schwartz-Ring 26
D-59494 Soest
Telefon + 49 2921 / 69-870
Telefax + 49 2921 / 69-617
Internet http://www.ceag.de
E-Mail Info-n@ceag.de

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)

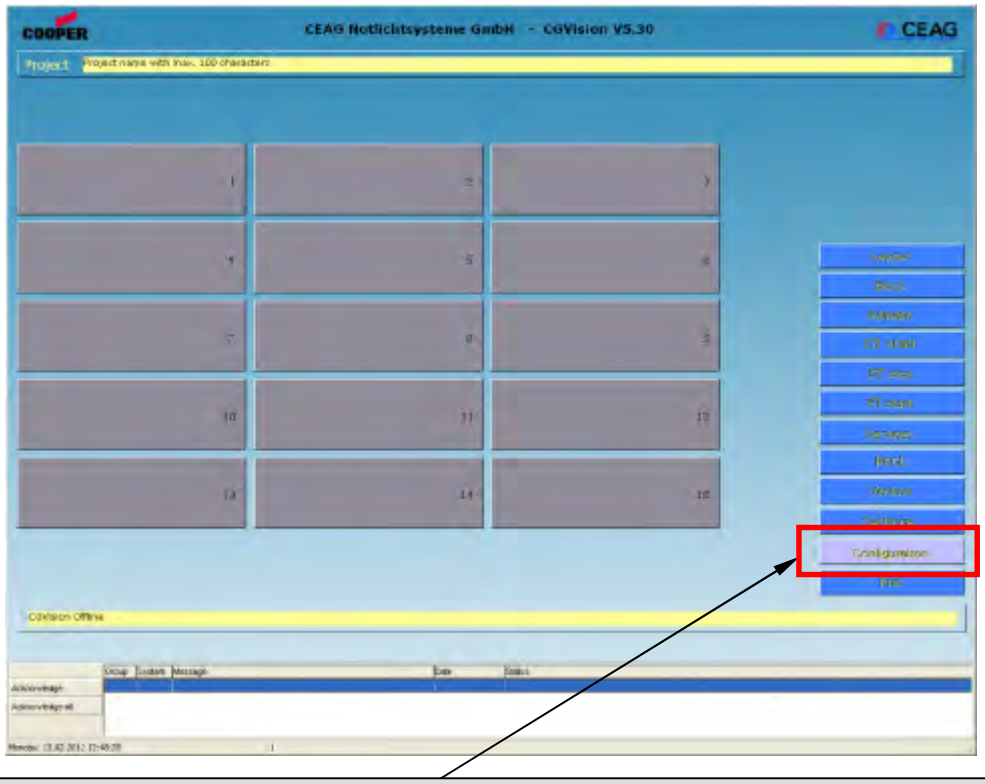
Section 5
ZB-S device family

CEAG Notlichtsysteme GmbH

5 ZB-S device family

5.1 Configuring a ZB-S system group

5.1.1 Configuring a ZB-S system group:



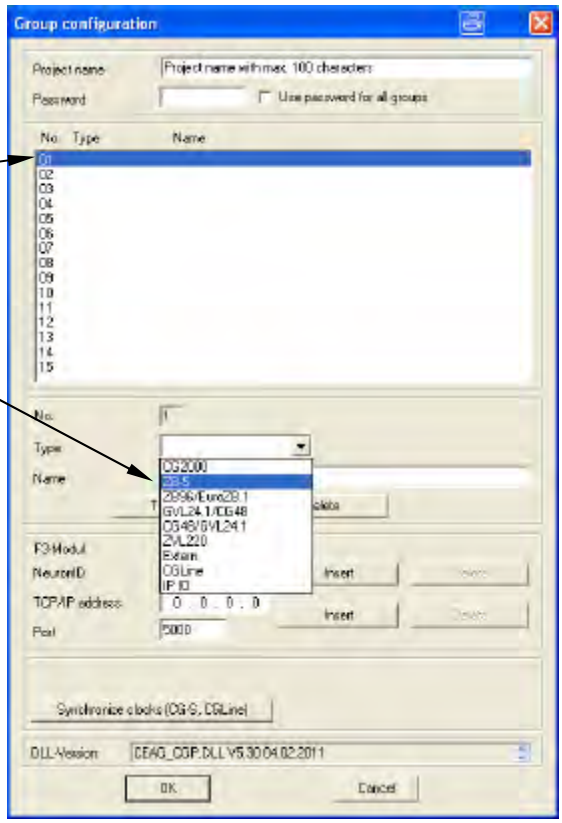
A new device family, e.g. ZB-S, can be created via the 'Configuration' menu.

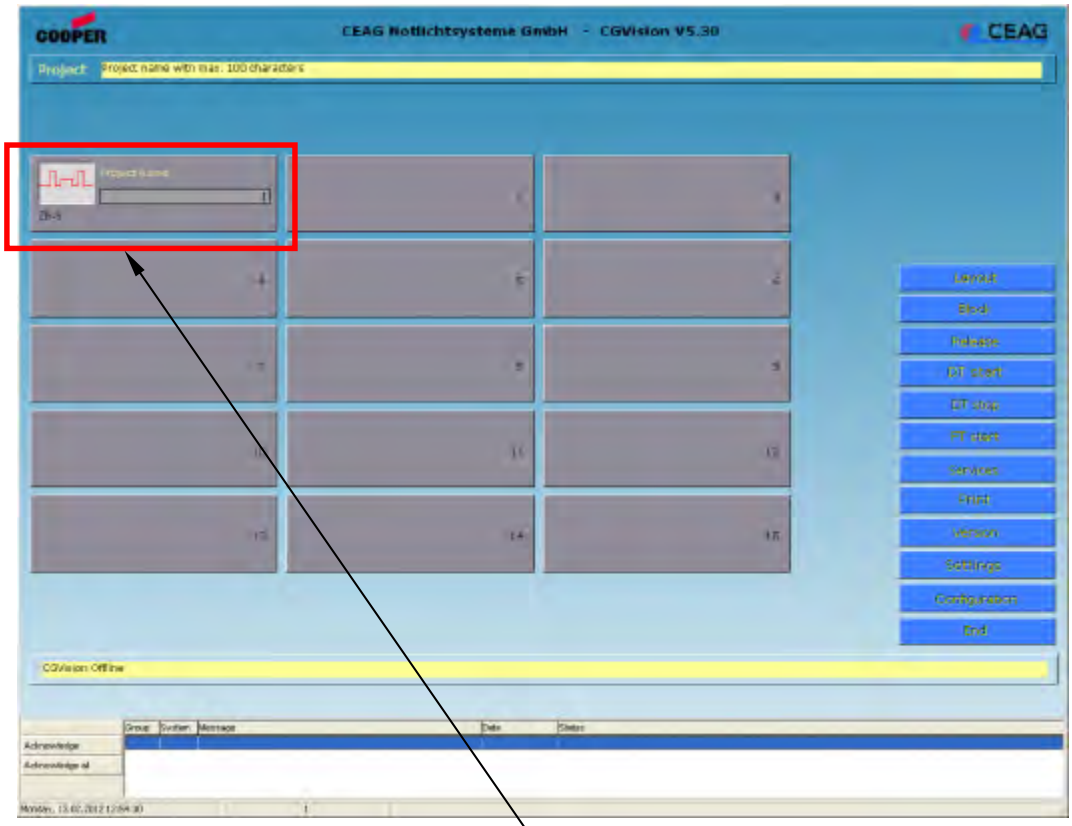
The group configuration menu then appears:

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

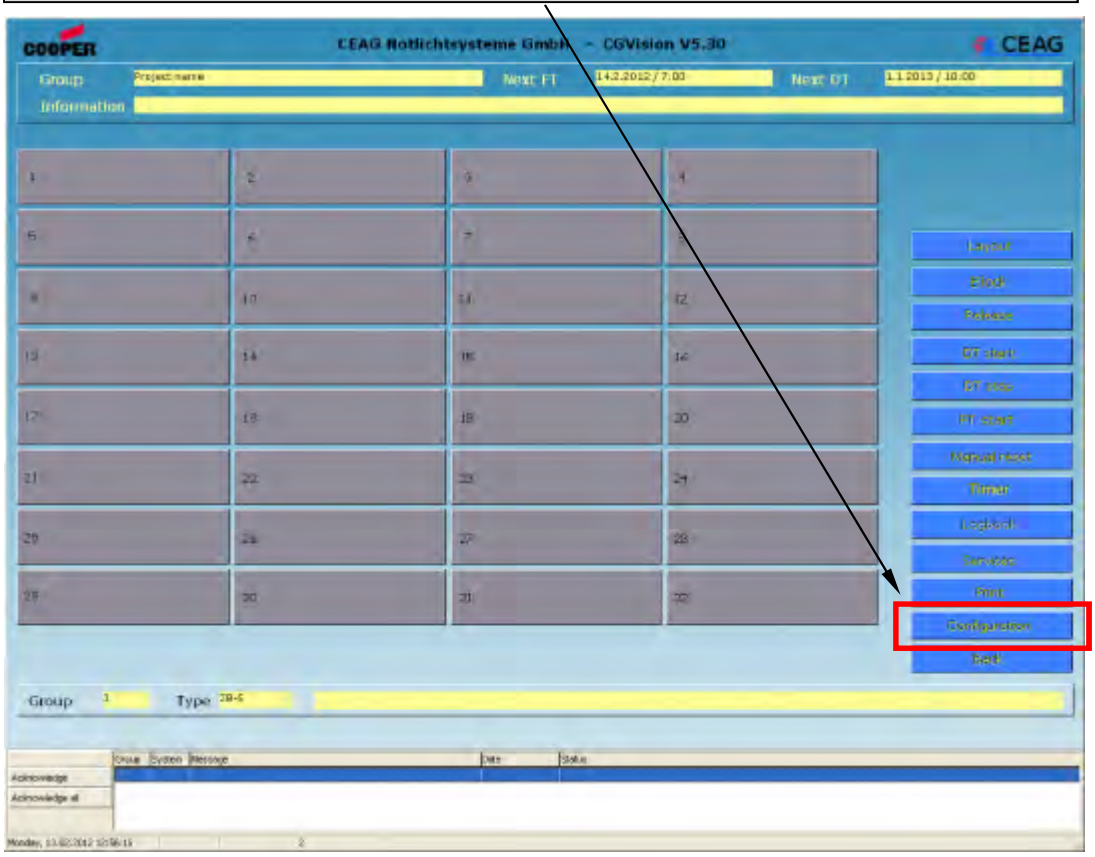
b) In the 'Type' drop-down menu the system type 'ZB-S' can be selected and a system group name can be assigned

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)

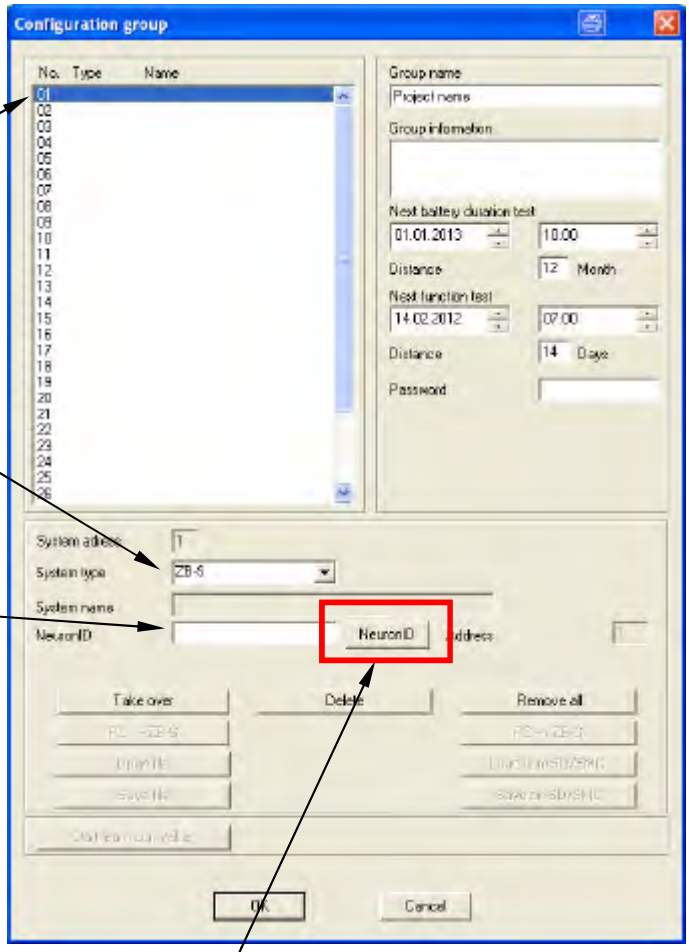
b) ZB-S system type

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.

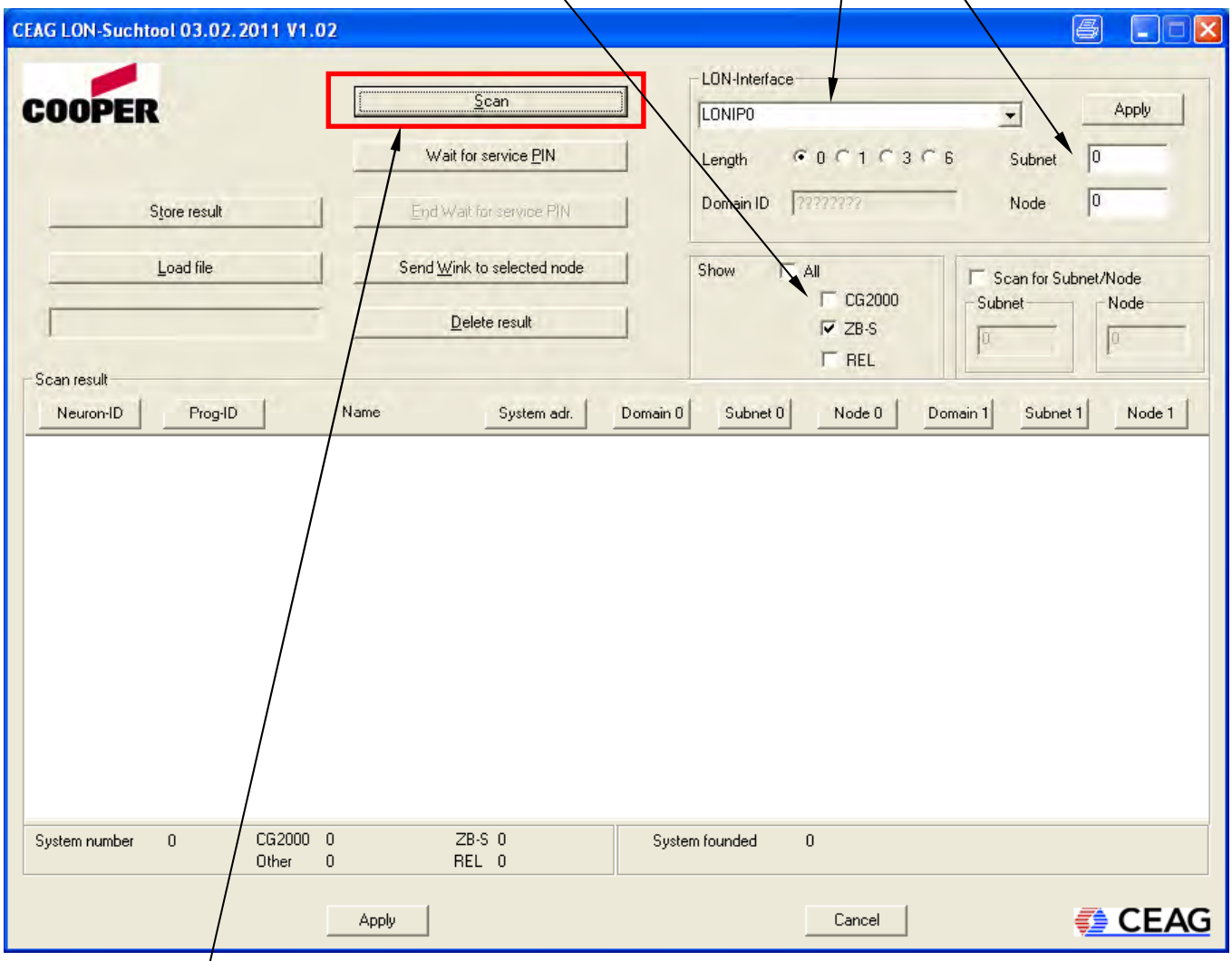


about the first entry of the Neuron ID via the new search tool:
The simplest method to add systems in CGVision is offered by a new search tool that carries out a network scan on the CG-S bus and lists all systems with a Neuron ID. To start the search tool, the desired device address (in the example address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

The CEAG search tool opens in a new window

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

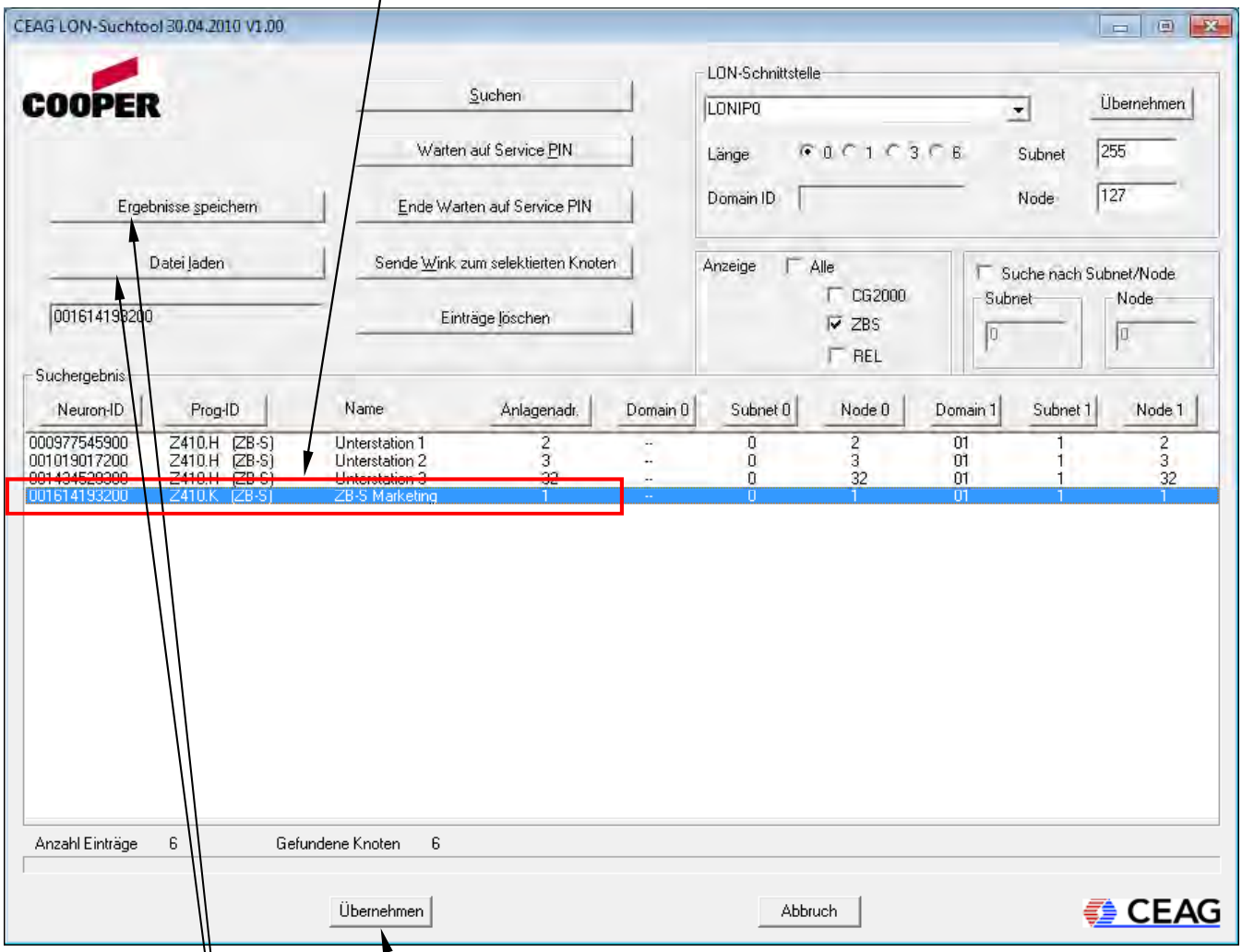
2. 'ZB-S' must be activated



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).

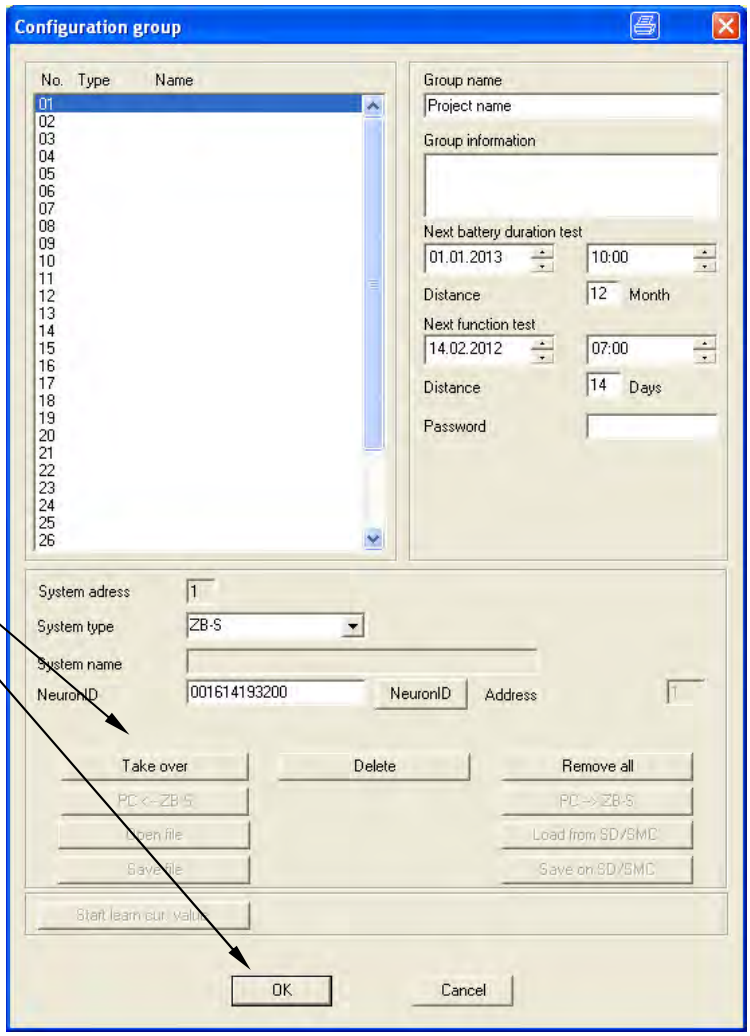
All ZB-S devices found are specified in the 'search results' list.
As information, the Neuron ID, the software version Z215 with state, the system types ZB-S, the device name (20 characters, from the control unit) and the device address 1 to 32 are displayed.
The required ZB-S with the correct Neuron ID and device address must now be selected, marked blue.



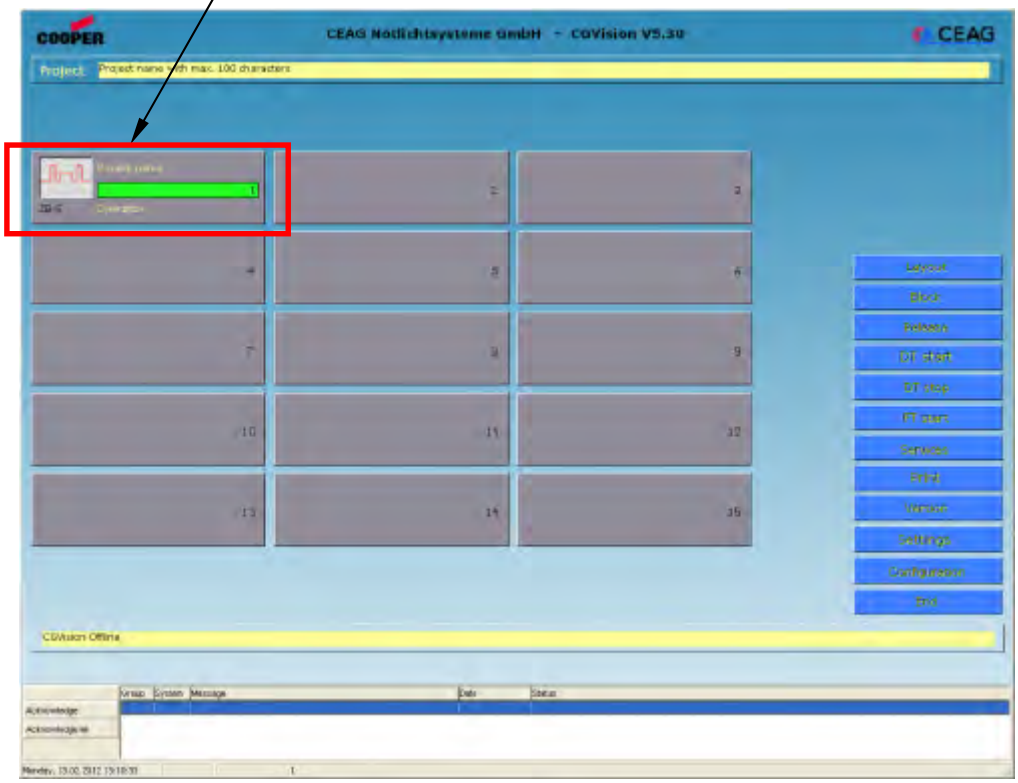
'Accept' automatically copies the NeuronID into the ZB-S configuration (next screen)

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.

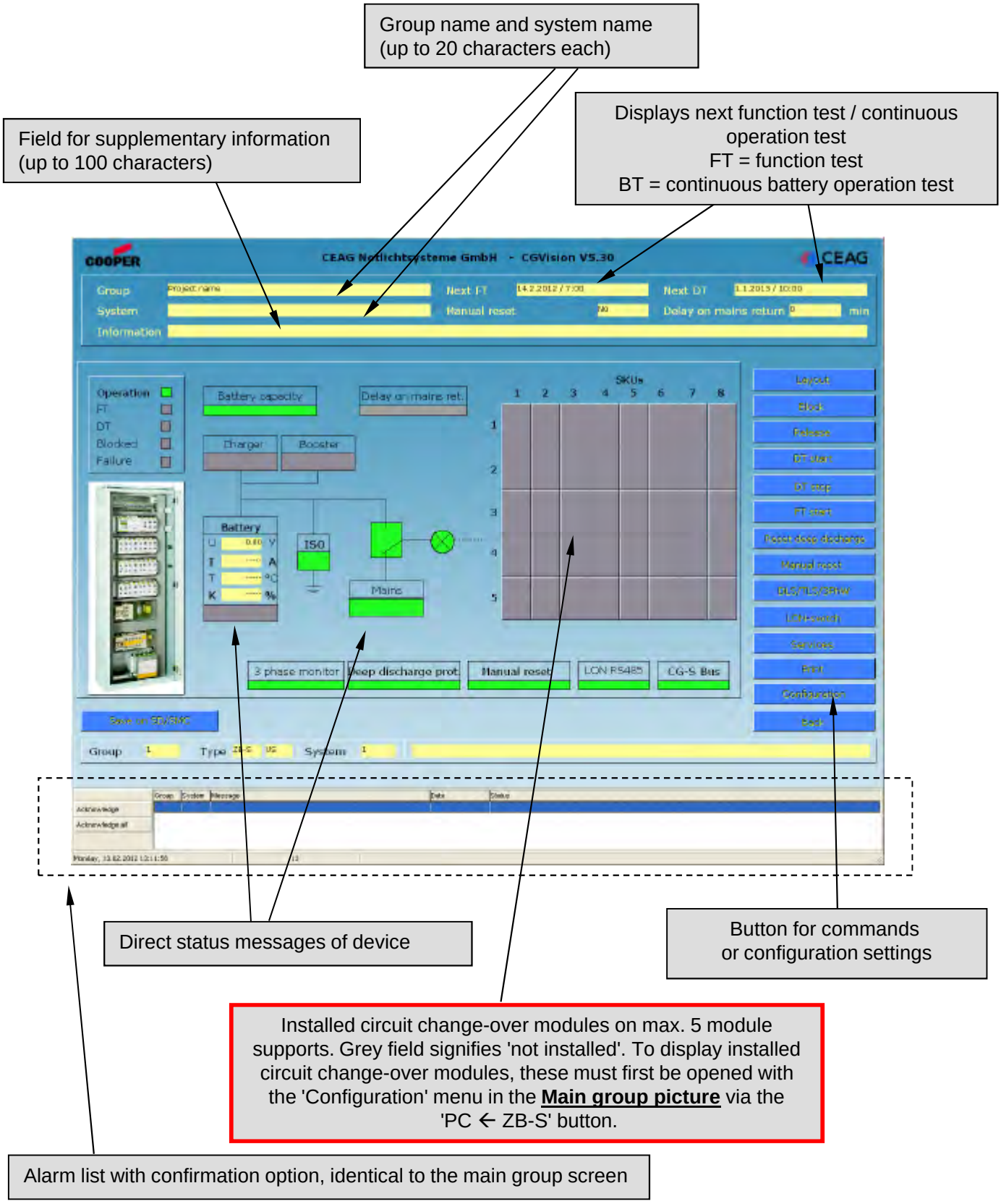


After the CGVision restart the added devices are displayed with type designation in the assigned button. This button is now active and displays the current status via colour designation according to operational state, e.g. green = operational, red = fault, yellow = function test or continuous operation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



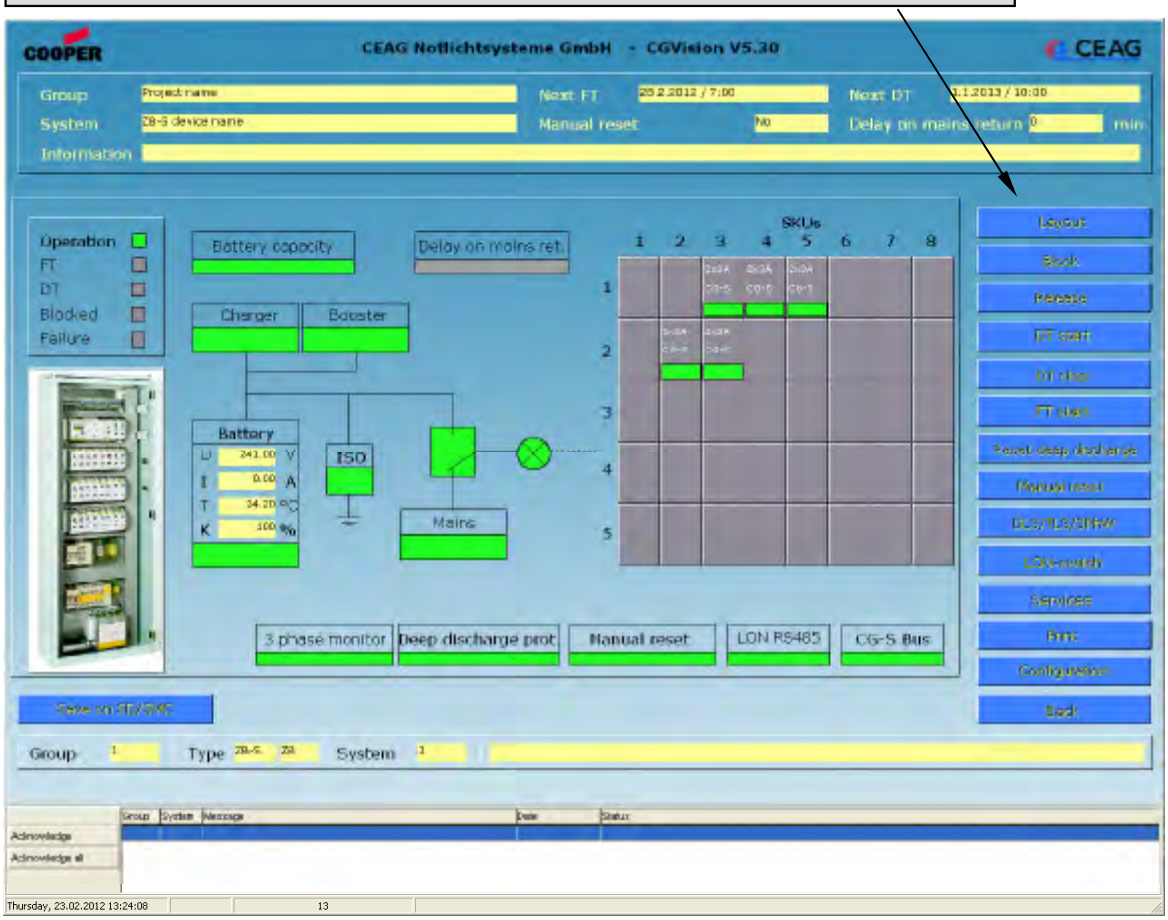
5.2 'ZB-S device screen'

5.2.1 Structure of the device screen:



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

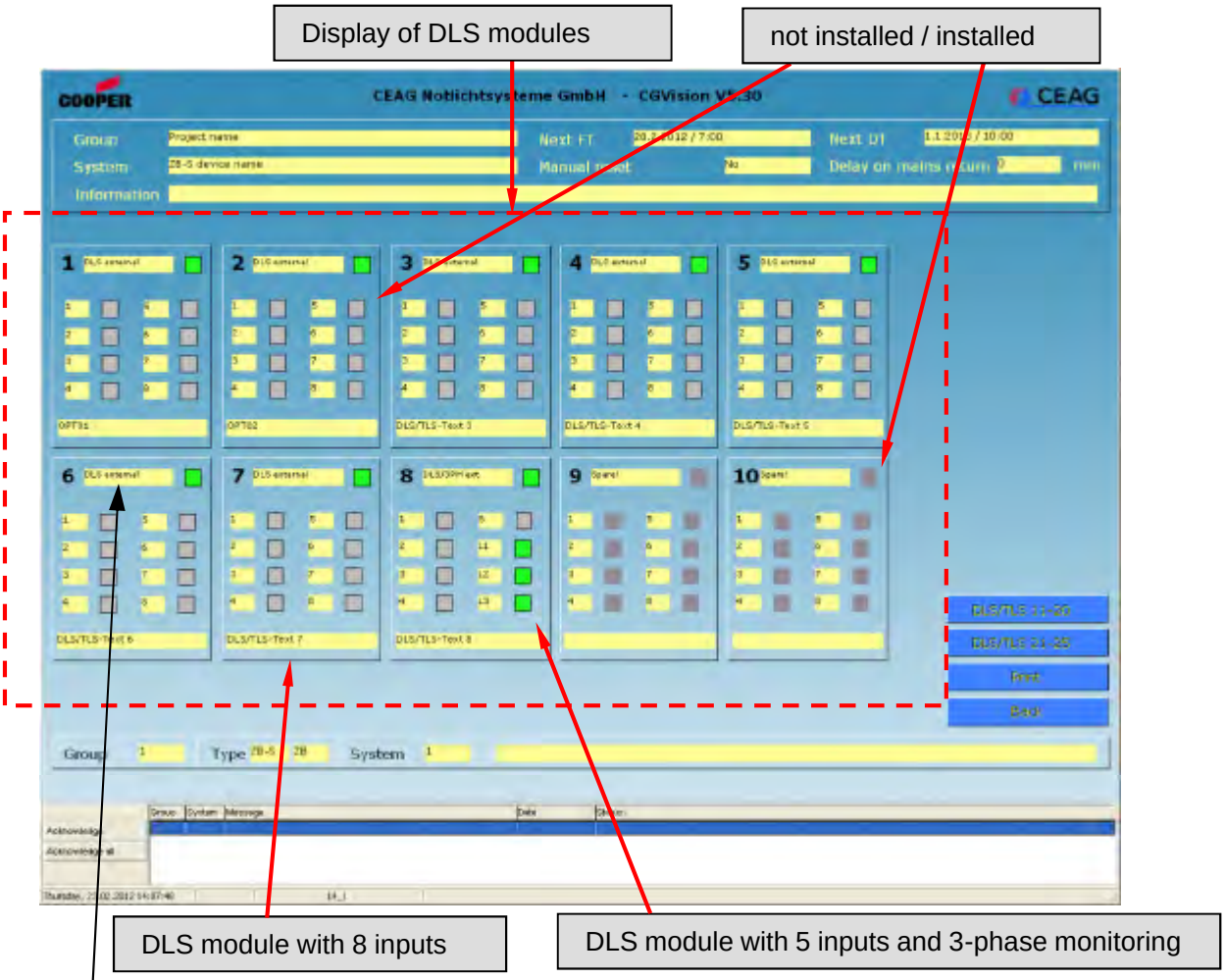
m). 'Configuration'
Configuration settings for all data on the device screen

n). 'Back'
Return to system group screen

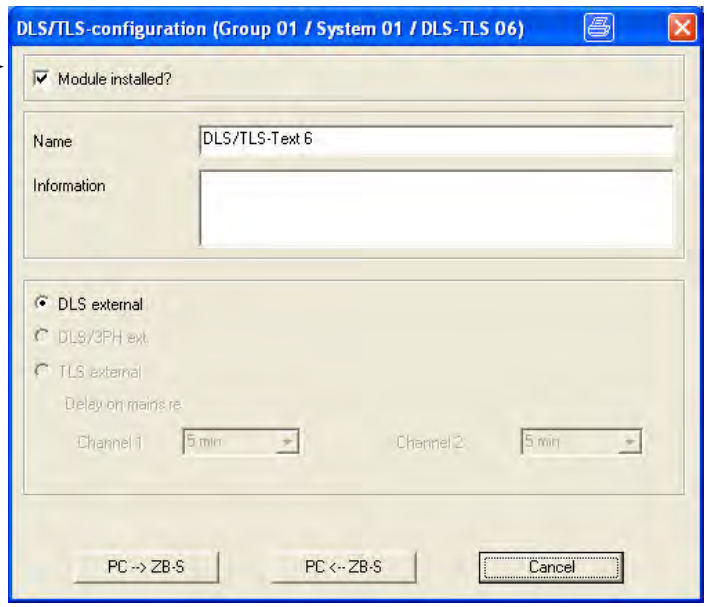
a). Calling up of the available layouts in this system group
(option must be released, see the 'layout programming' section)

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



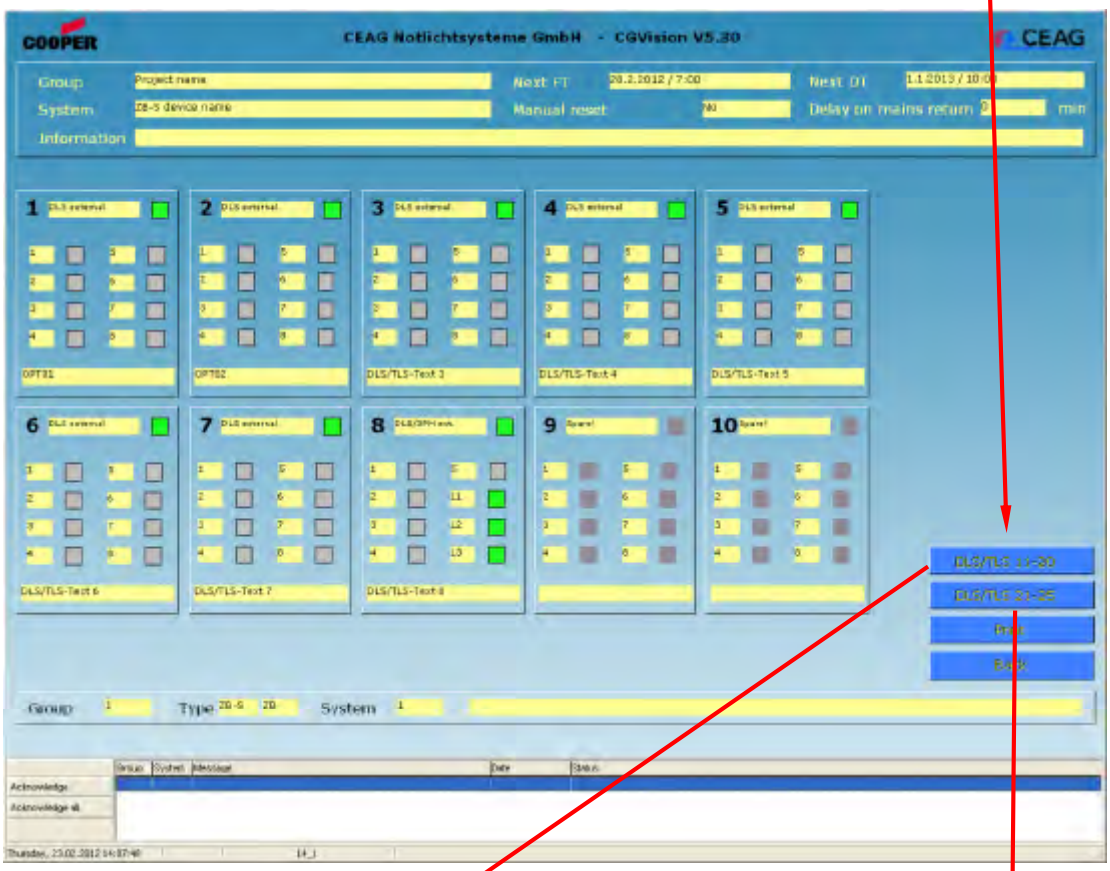
Open the configuration window by clicking on the DLS name



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

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

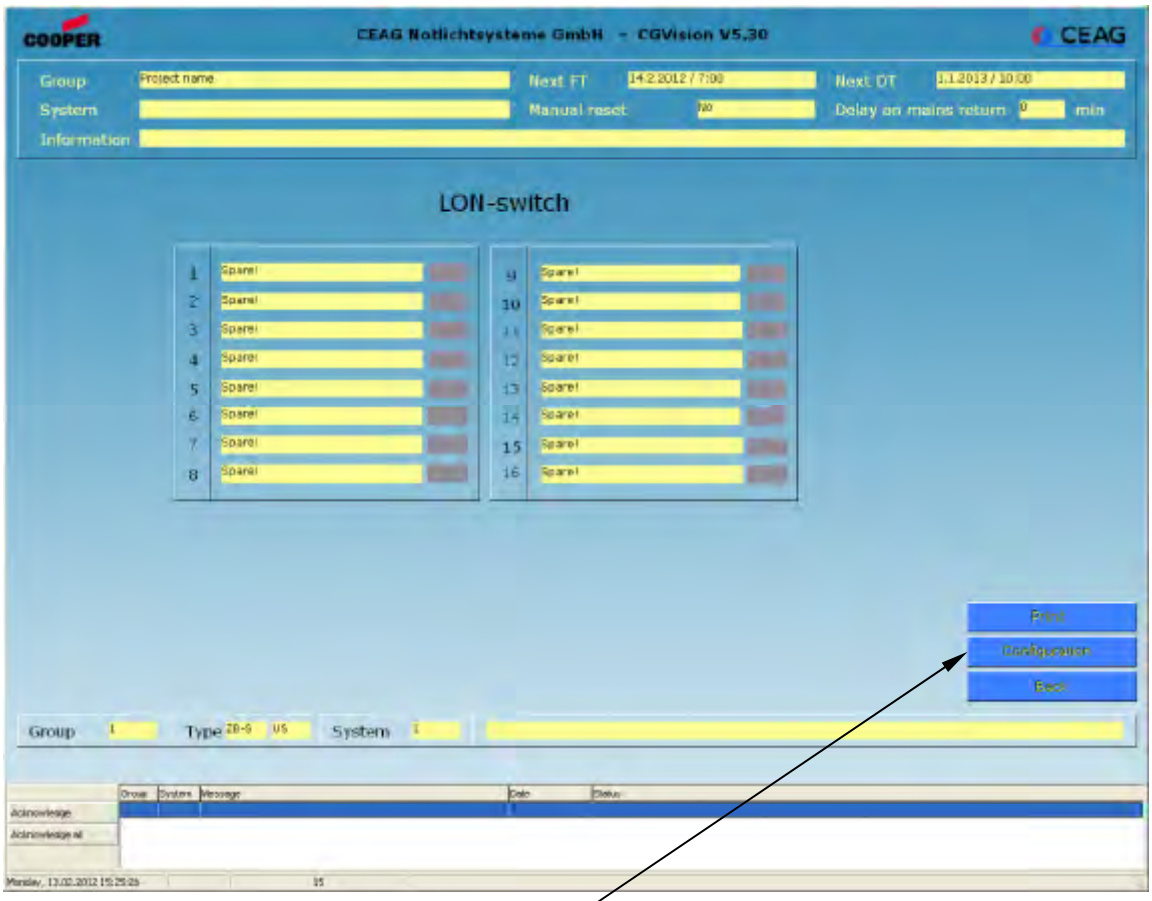
Selection of the DLS modules 11 - 25



DLS modules 11 - 20

DLS modules 21 - 25

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

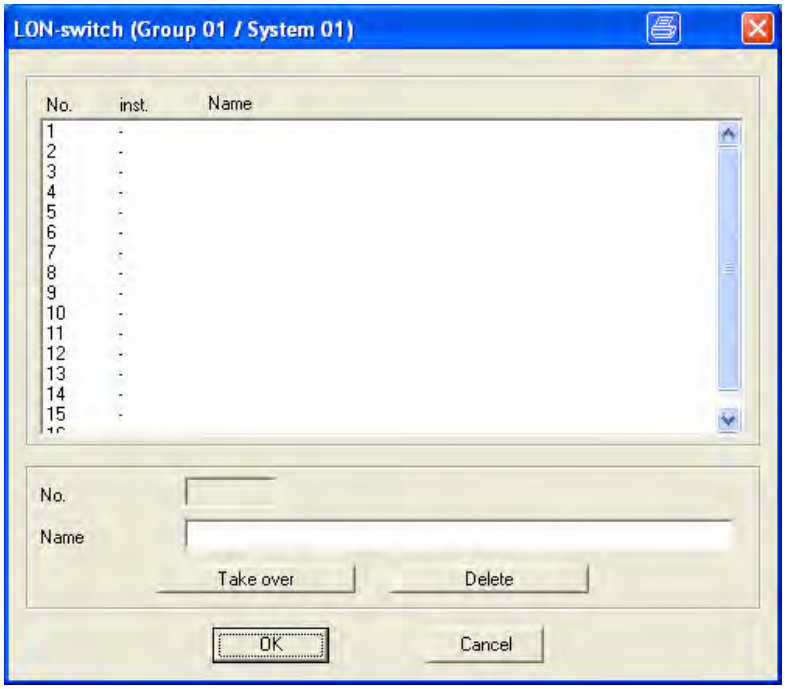


Configuration of external LON sensors:

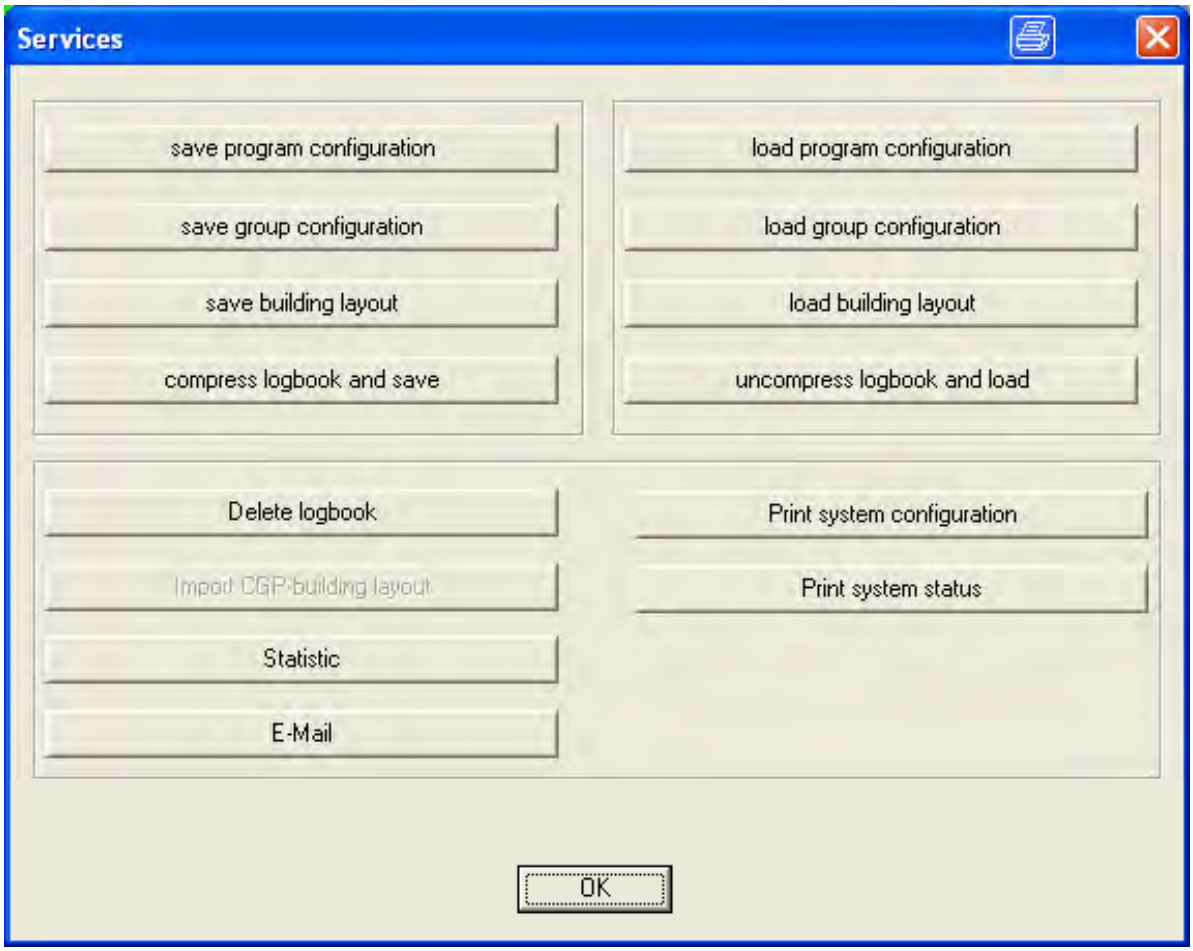
Up to 16 external LON sensors (e.g. switch) can be assigned. Assignment, contrary to CG2000, is <u>independent</u> of the assignment of the DLS addresses.

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



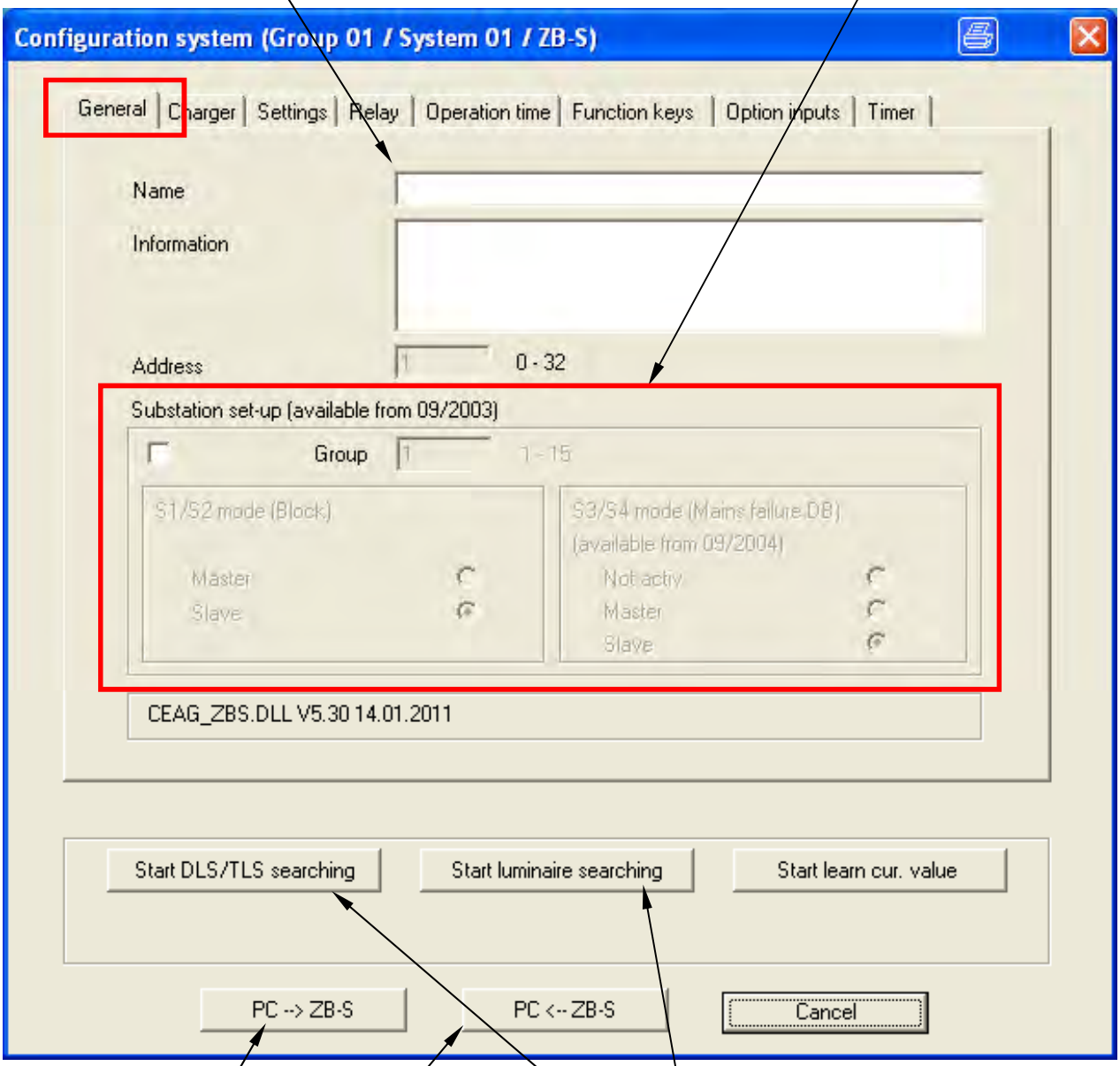
The 'Services' menu is identical with the 'Services' menu in the system group screen, apart from clicking on Status only relates to the individual system.

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

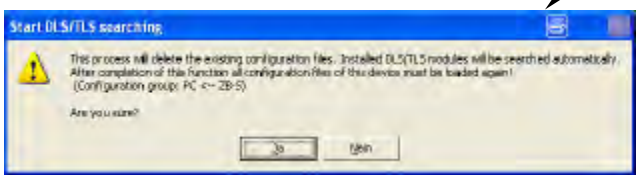
The substation setup has to be deactivated, if CGVision is used !
Mailfunctions could occur !

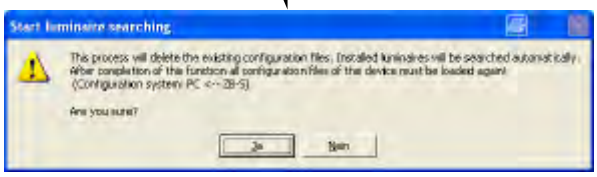
Entry of device name and supplementary information



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

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
<u>DLS search</u> <u>luminaire search</u>



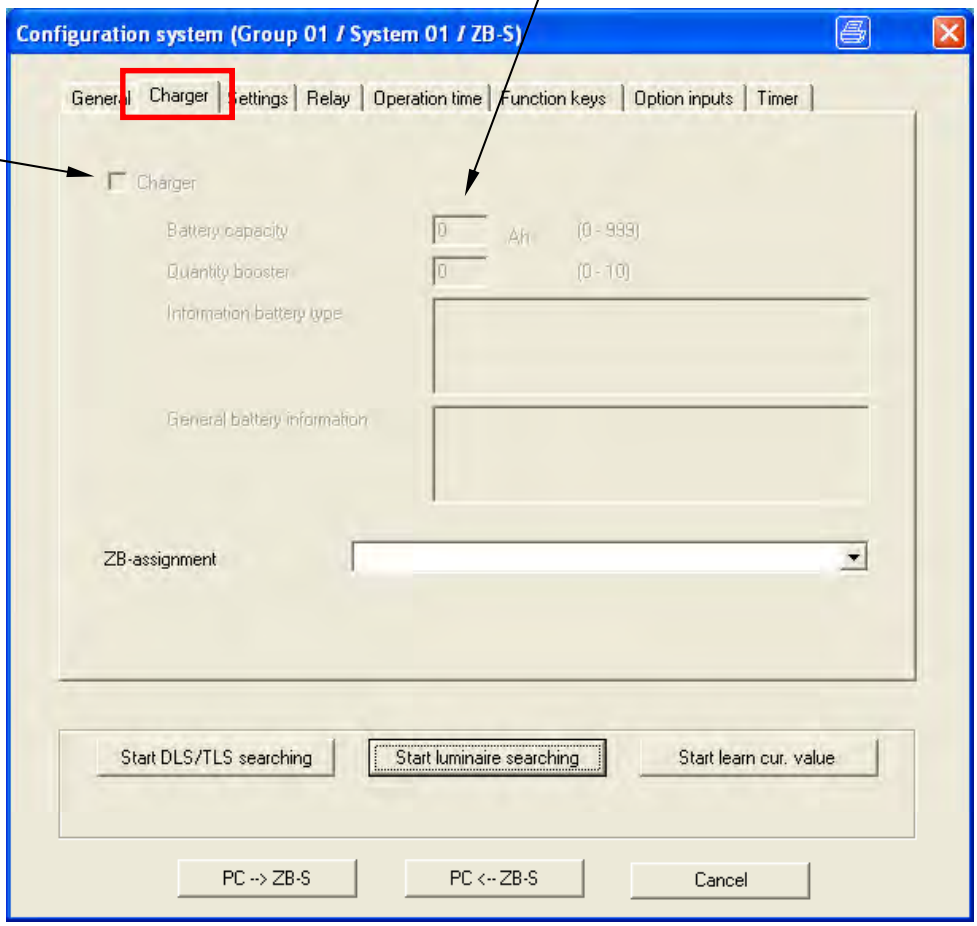


about m. 'Configuration of system' (device)
b). Charger

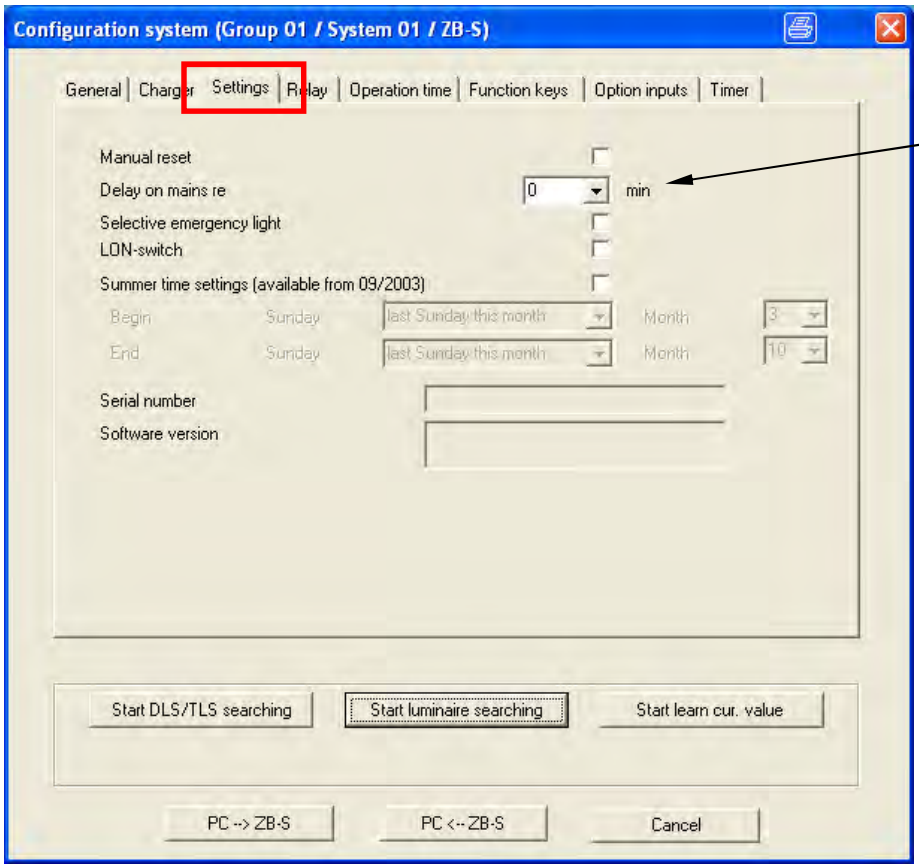
Specification of battery capacity in Ah and number of installed charging boosters (when a charger is installed)

Charger installed = central battery system

Charger not installed = substation



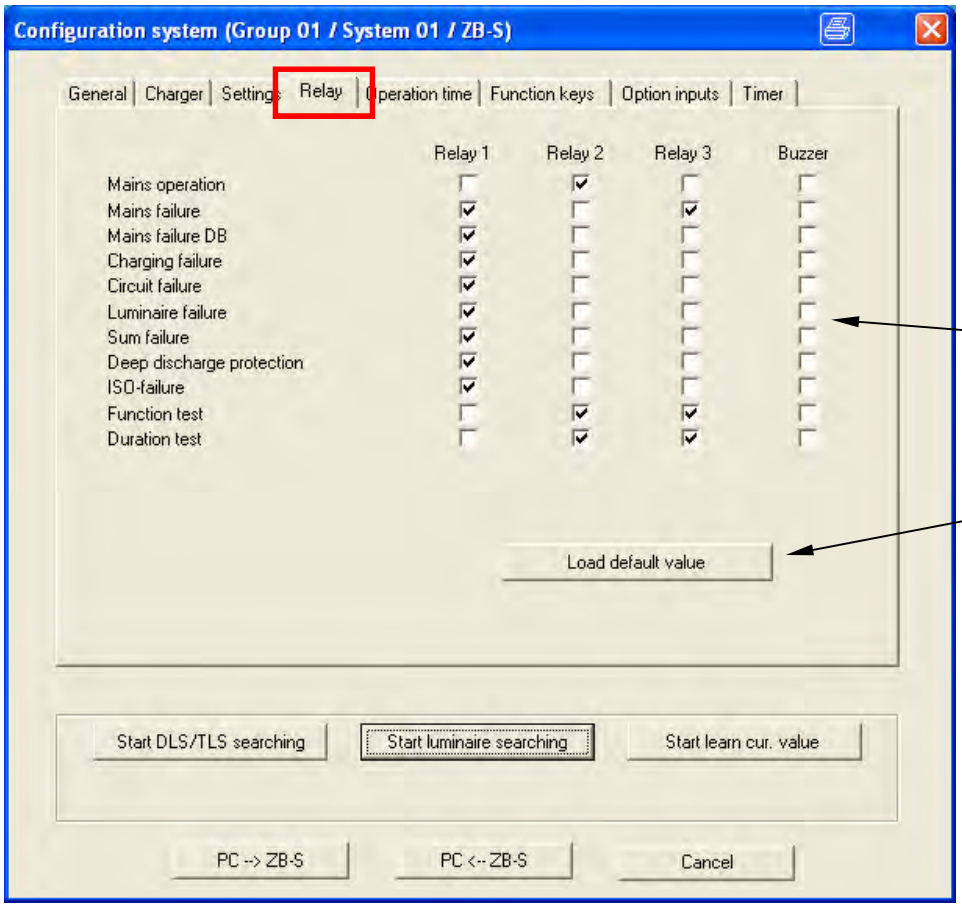
c). Settings



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



Randomly assignable relay contacts and summer function, randomly programmable

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

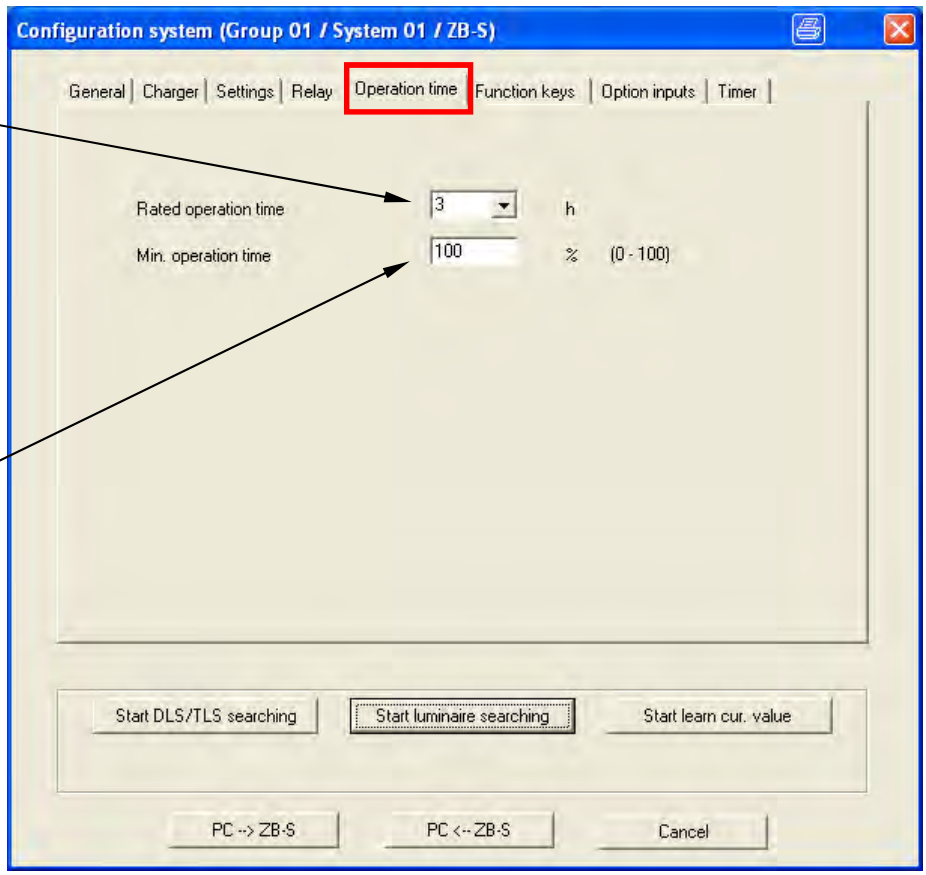
e). Operating duration

Specification of operating time (battery operation):

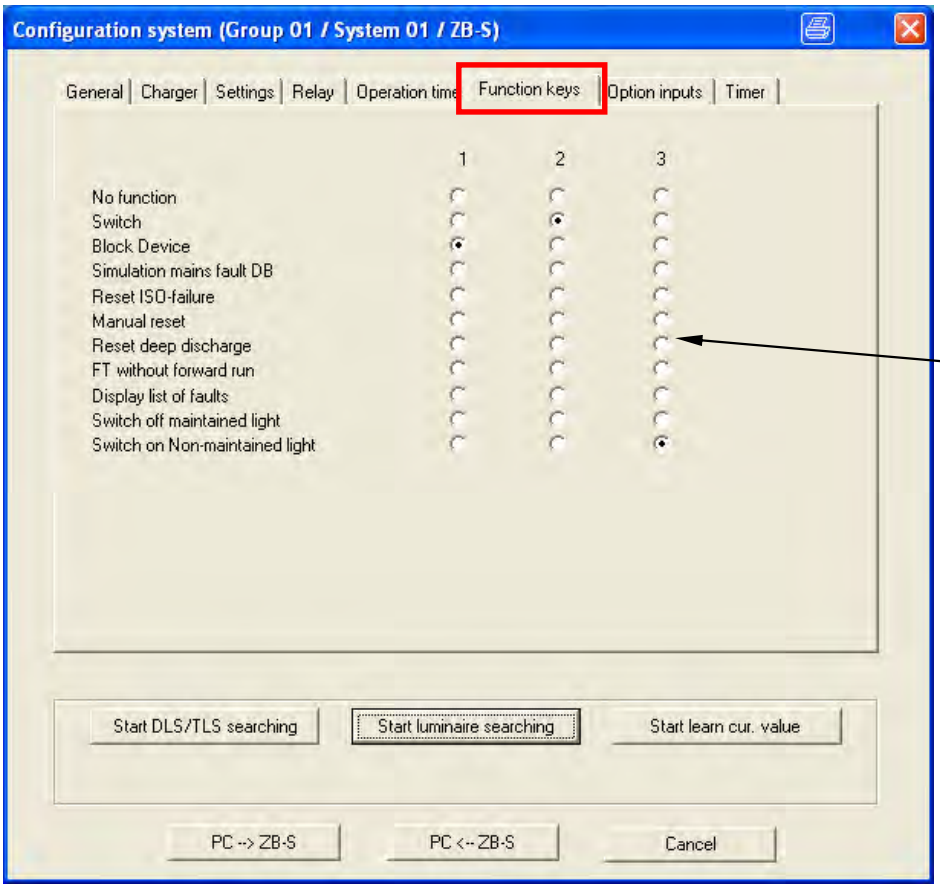
1 - hour
2 - hour
3 - hour
8 - hour

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

The standard is: continuous operation test = rated operating time

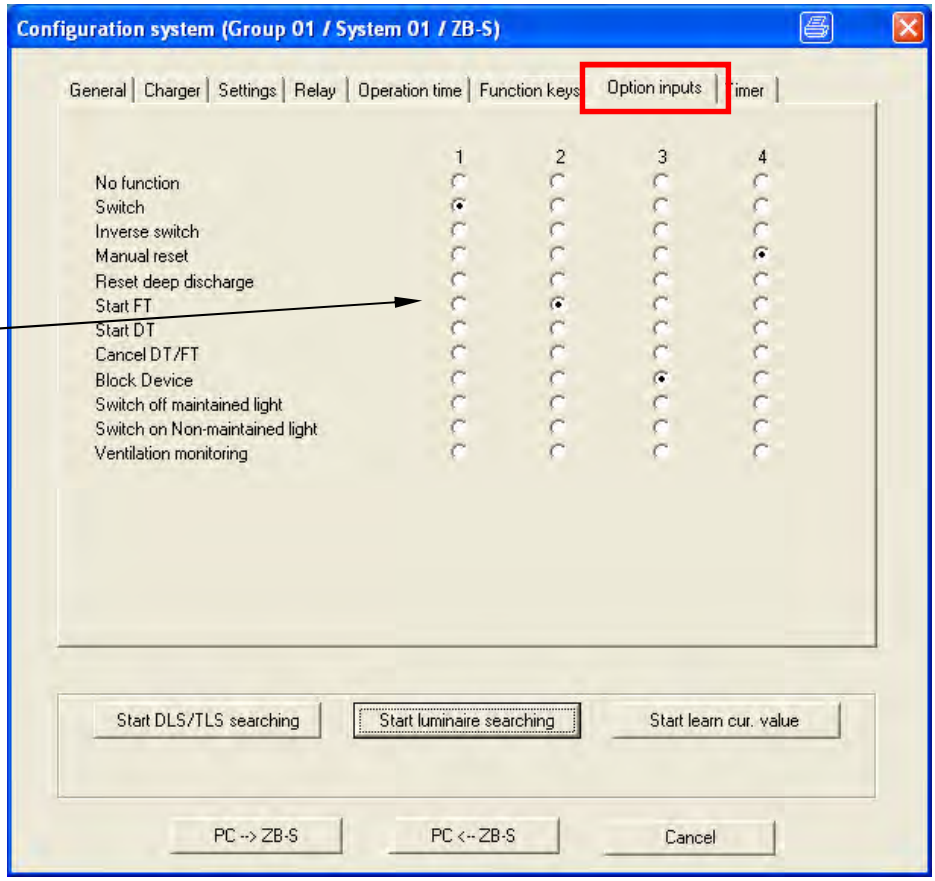


about m. 'Configuration of system' (device)
f). Function buttons



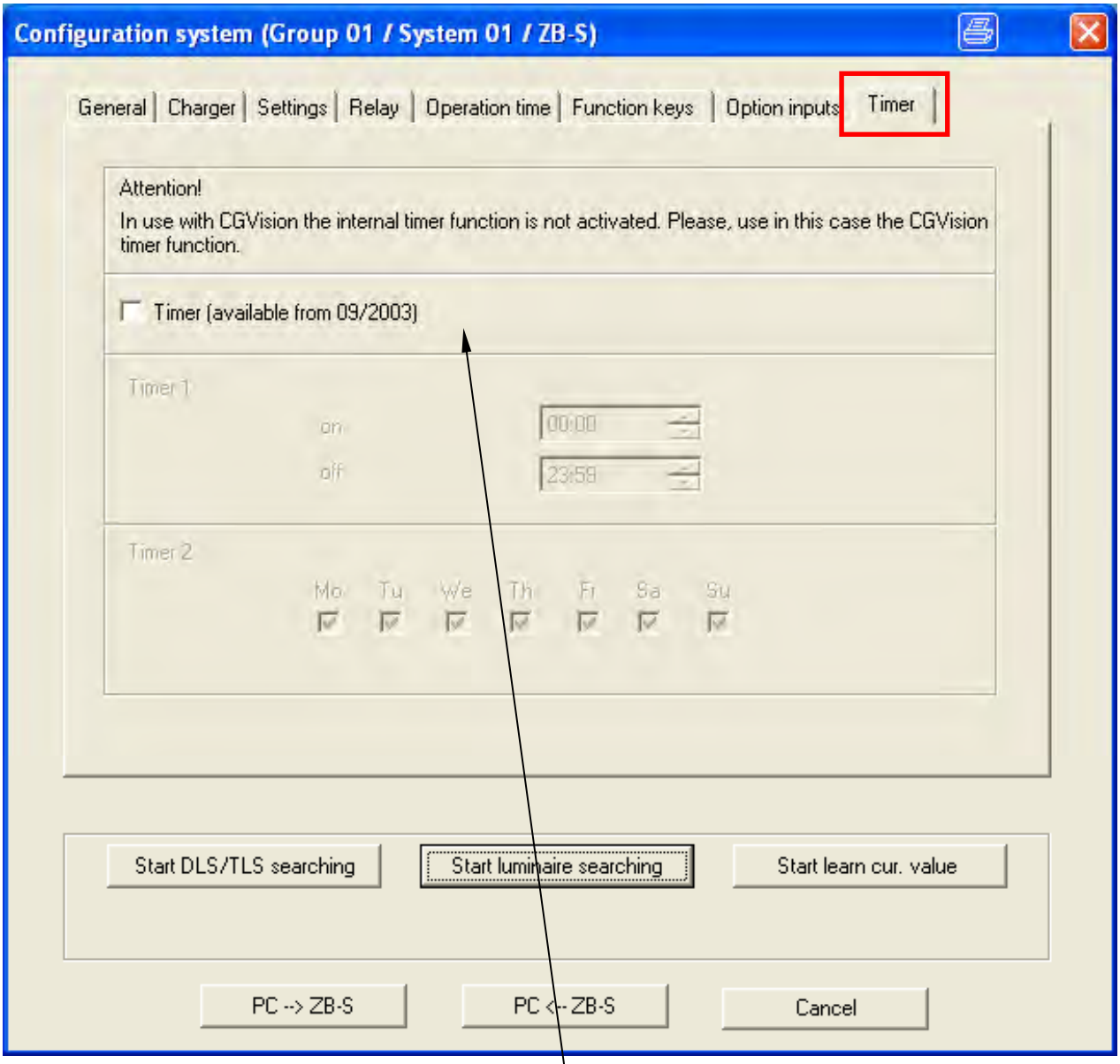
Settings for the randomly assignable function buttons on the control unit

g). Option inputs



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

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

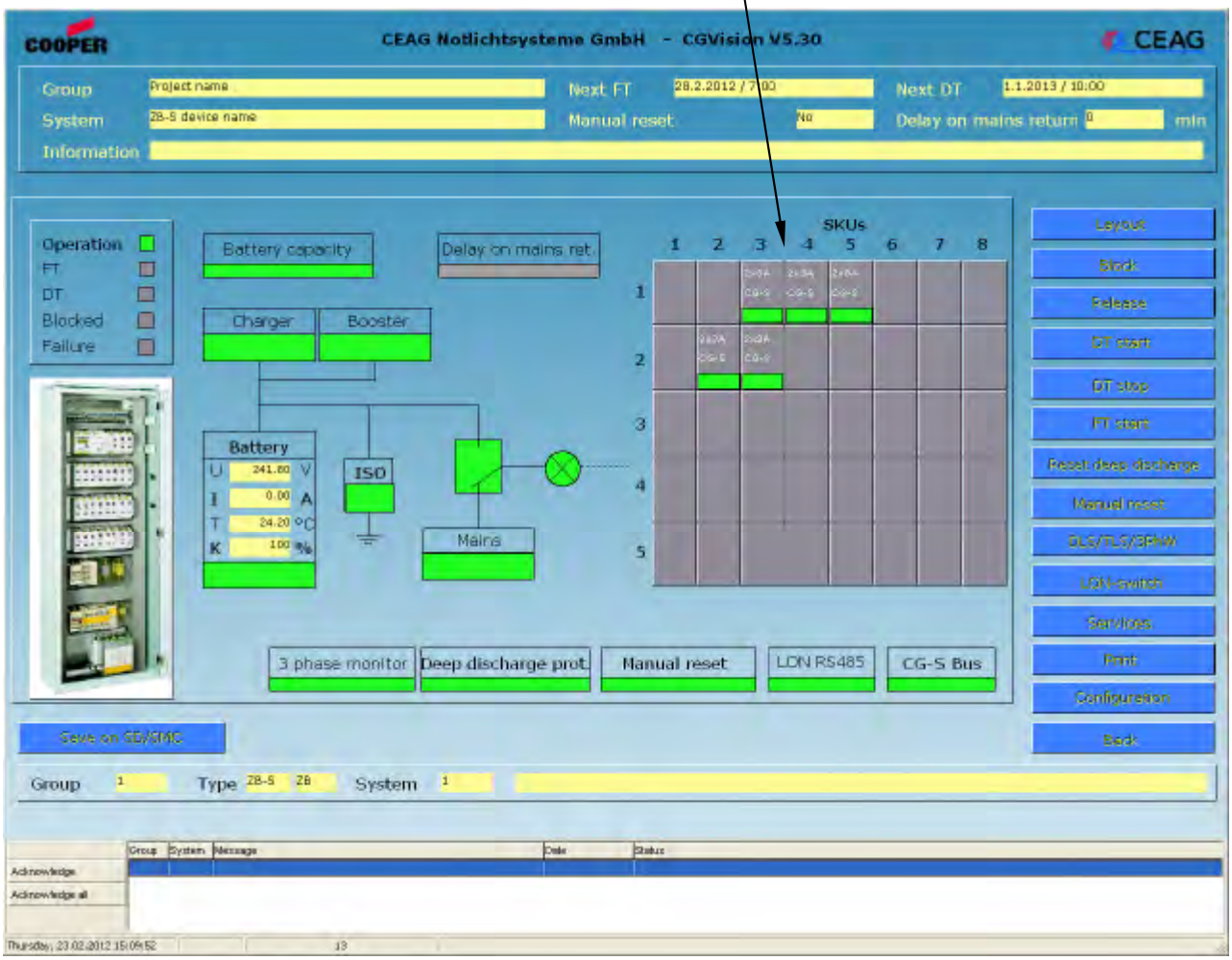


With operation with CGVision the internal timer function of the ST-S control unit is deactivated.
Timer control is implemented in CGVision according to Section
2.2 System group screen
h.) Timer

5.4 Circuit change-over module screen

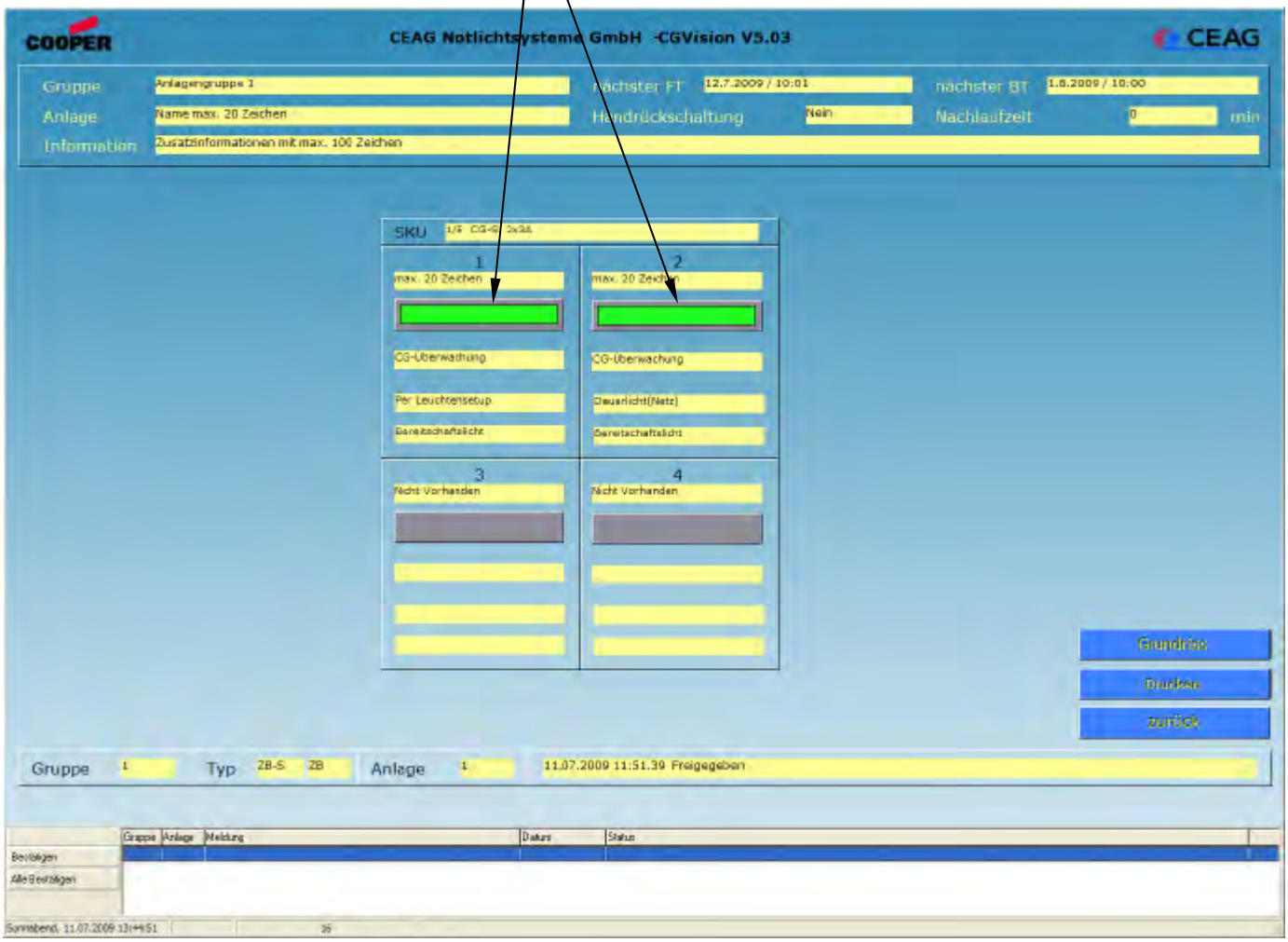
By clicking a button the corresponding circuit level opens (circuit screen)

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)



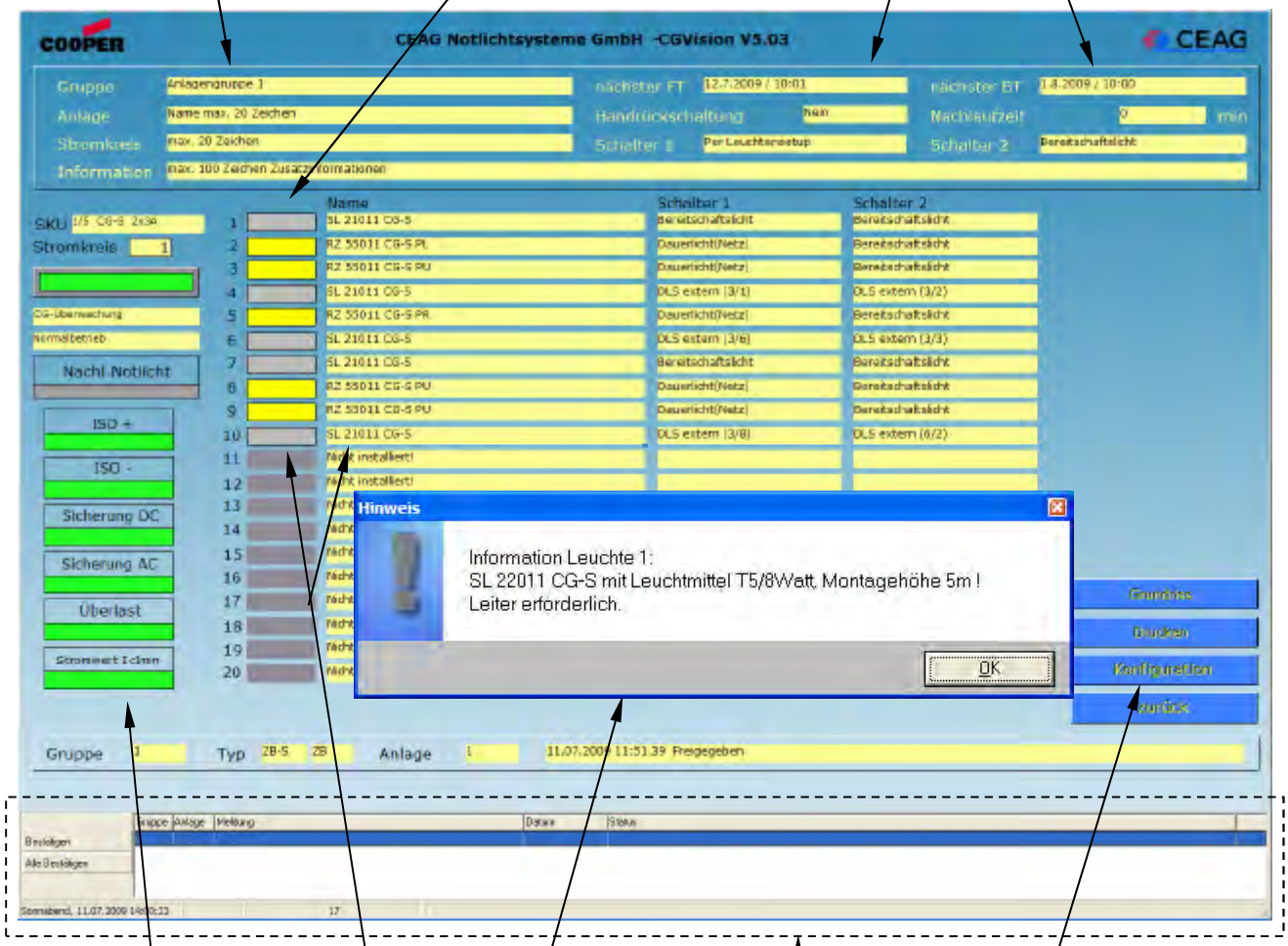
5.5 Circuit screen

5.5.1 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

Buttons for luminaire configuration (per luminaire) see Point 4.3.2 Luminaire configuration



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

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

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

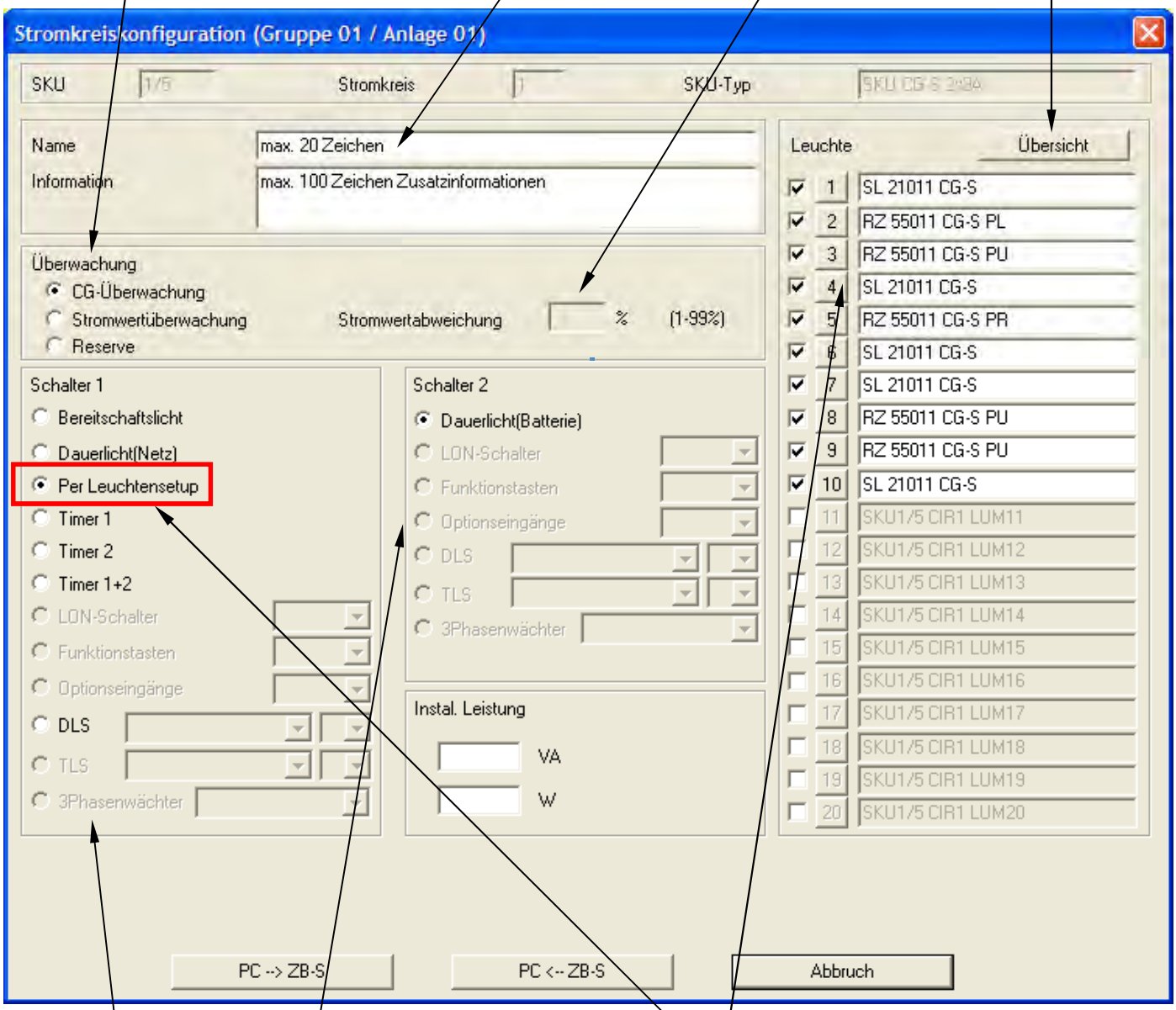
5.6 Circuit configuration

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



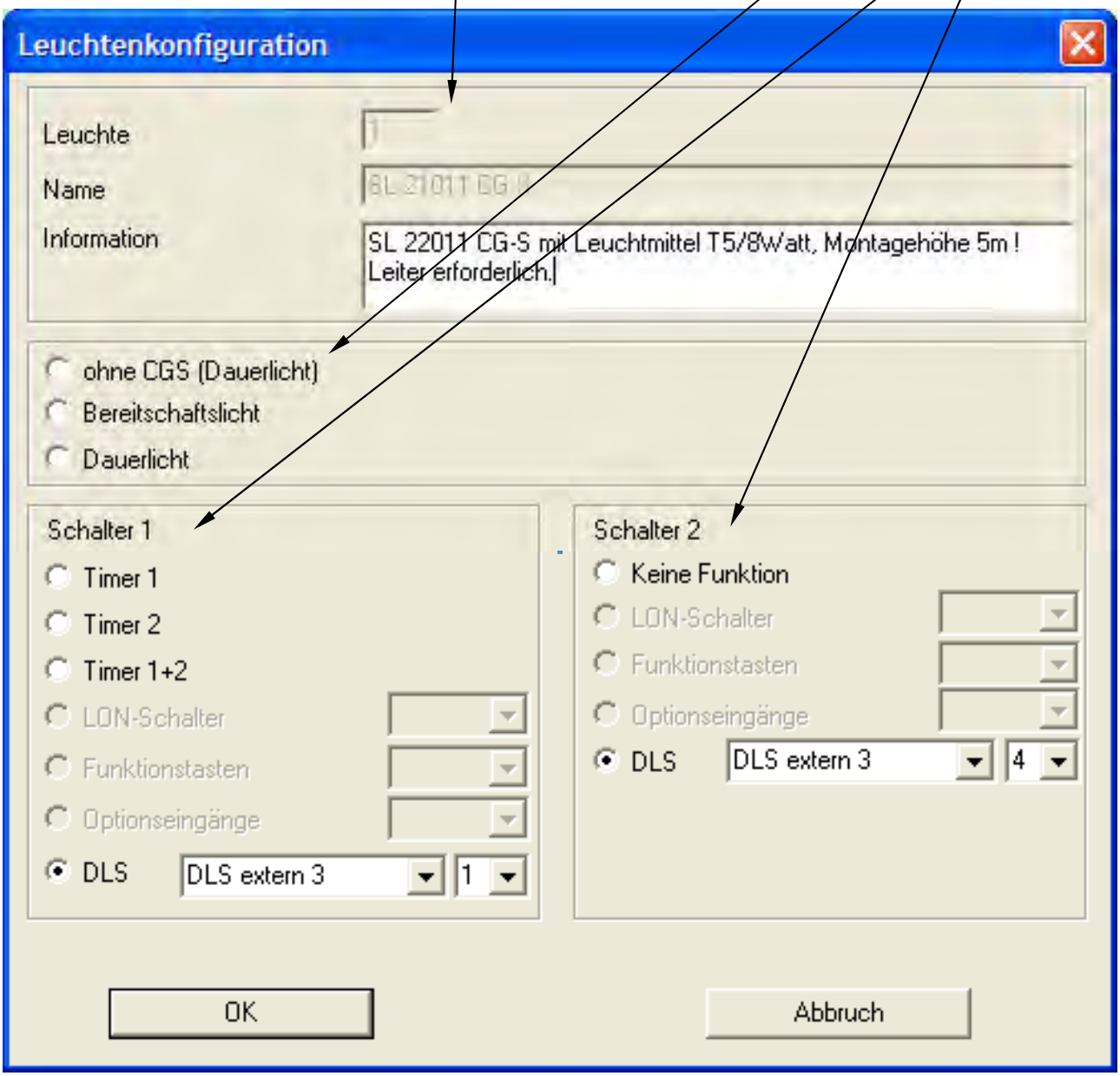
Circuit programming with switches 1 and 2

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

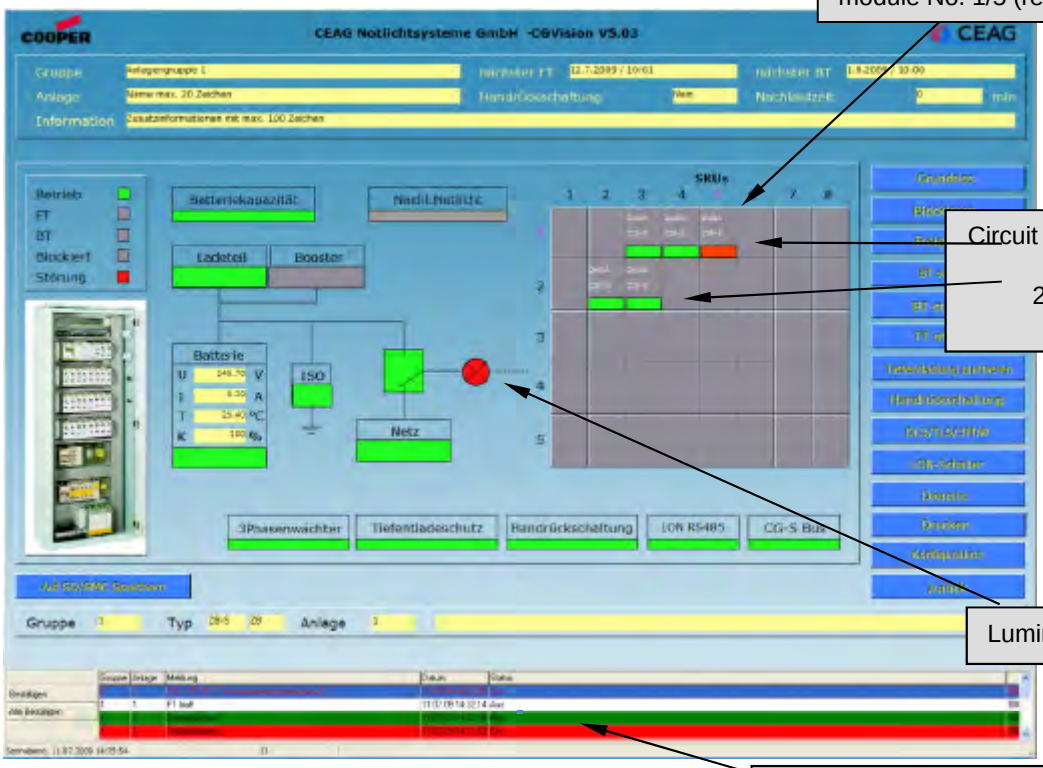


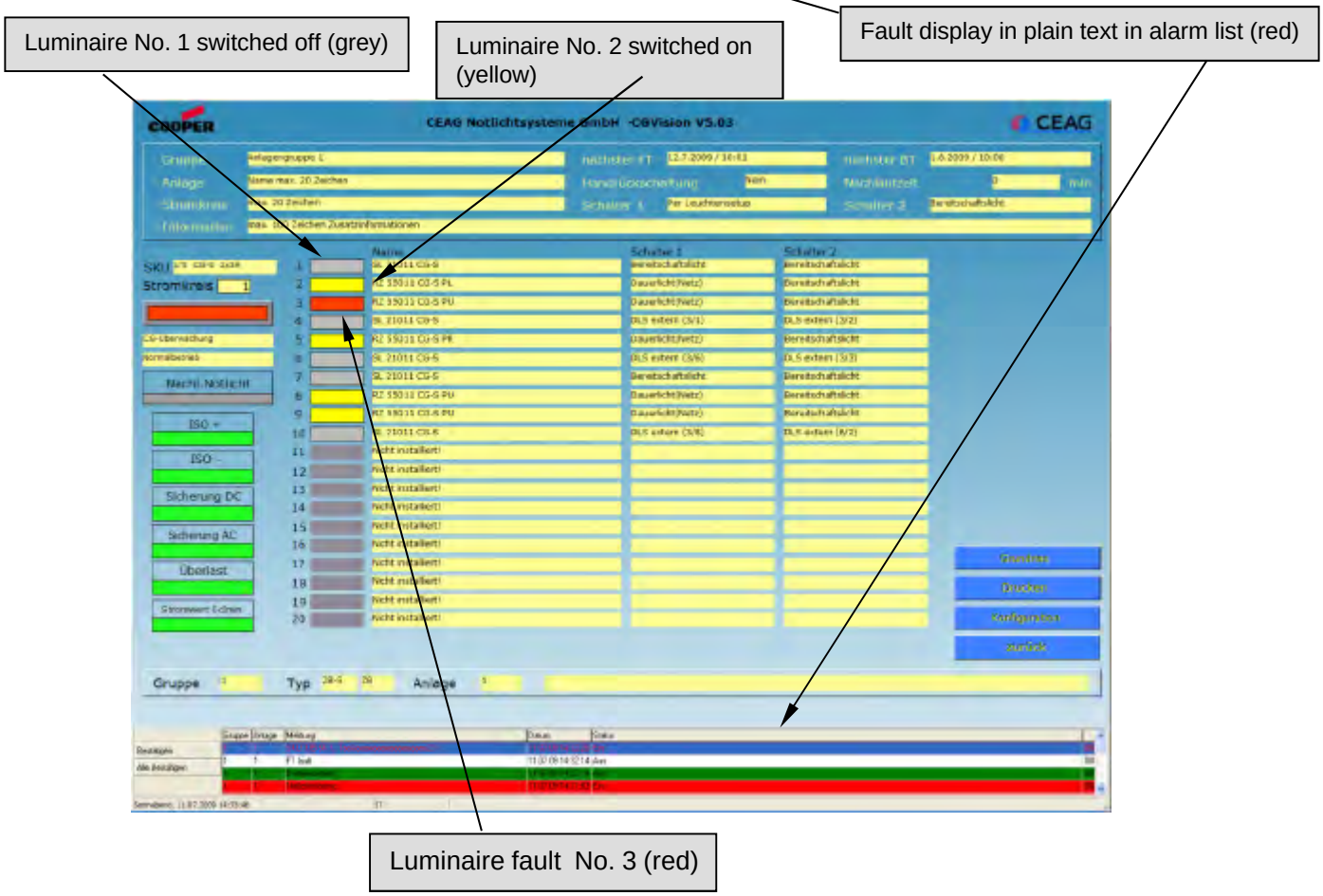
The above example shows programming of the luminaire to
Switch 1 = DLS module 3 – input 1
and Switch 2 = DLS module 3 – input 4.

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:

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CEAG Notlichtsysteme GmbH

Senator-Schwartz-Ring 26
D-59494 Soest
Telefon + 49 2921 / 69-870
Telefax + 49 2921 / 69-617
Internet http://www.ceag.de
E-Mail Info-n@ceag.de

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For the monitoring and control of
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Section 6
Device family ZB96/EuroZB.1

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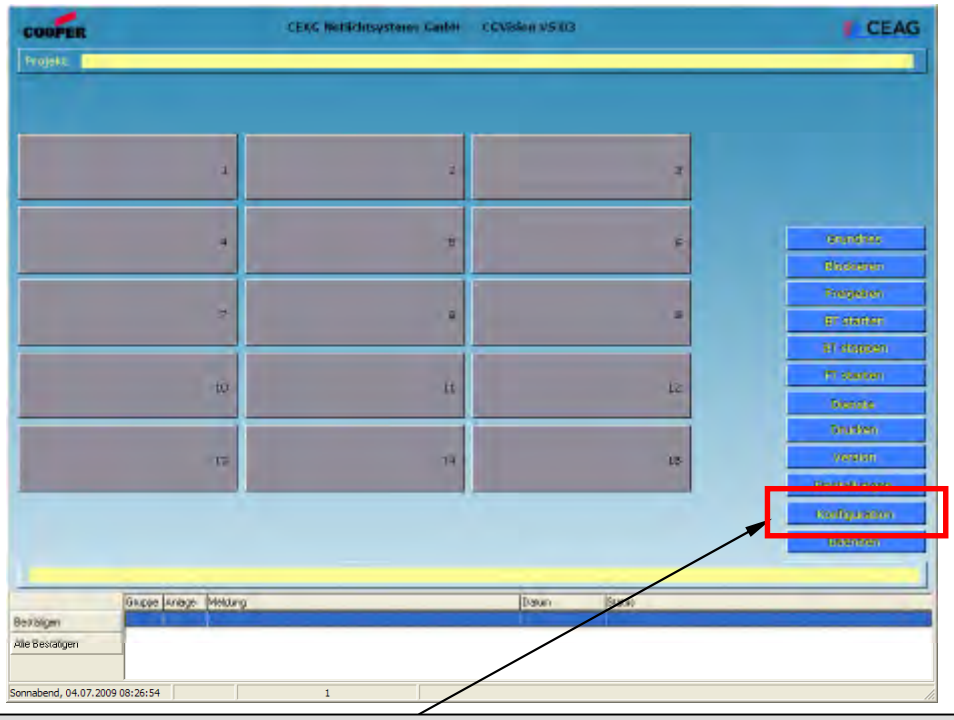
6 Device family ZB96 / EURO ZB.1

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.

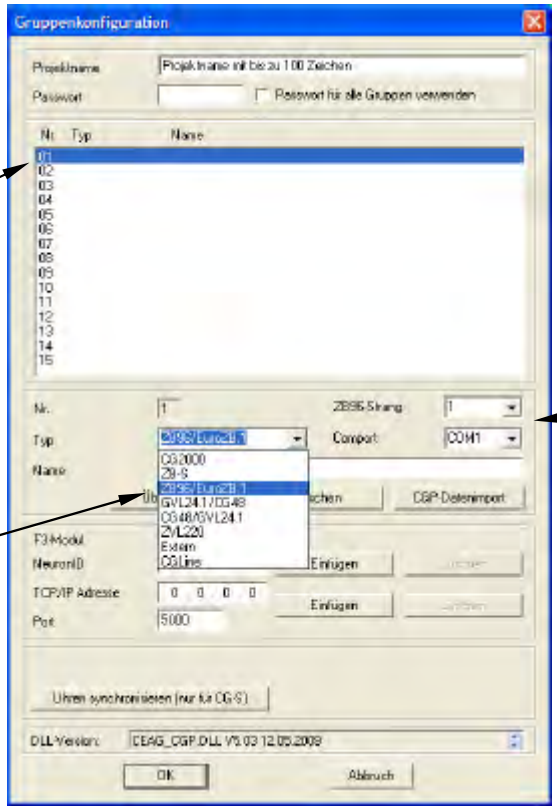


Via the 'Configuration' menu a new device family,
e.g. ZB96 or Euro ZB.1 can be created

The group configuration menu then appears:

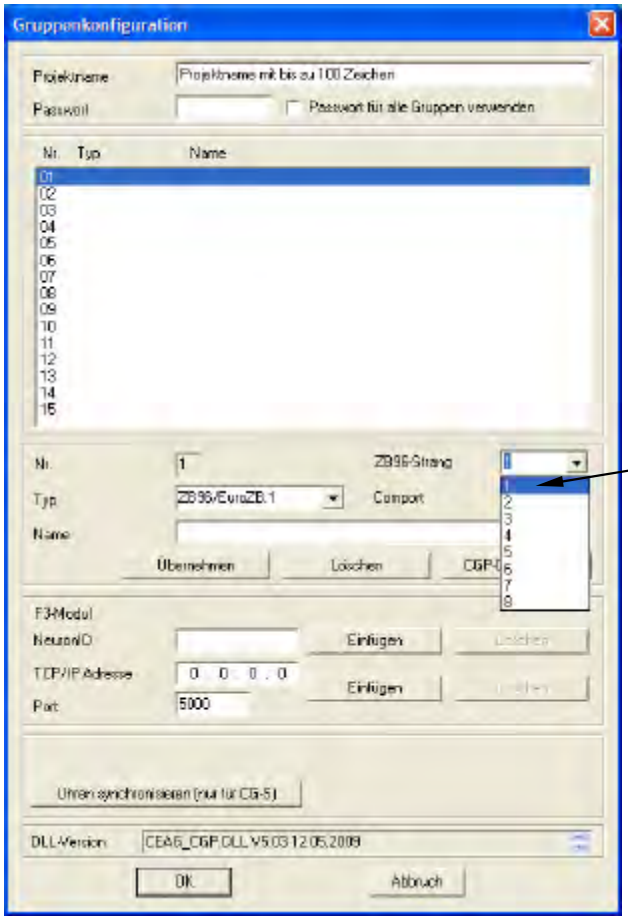
a) In the group selection window a system group can be defined by selecting the corresponding group number (marked blue)

b) In the 'Type' drop-down menu the system type 'ZB96/EuroZB.1' can be selected and a system group name can be assigned

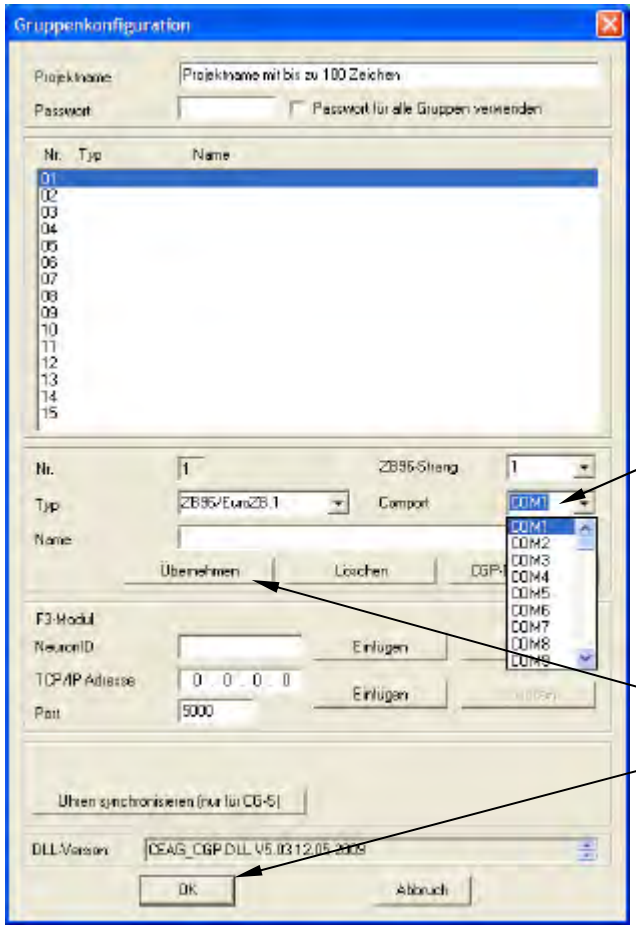


c) The assignment of an EGA line to a COM port is carried out via the drop-down menus 'ZB96 line' and 'COM port'.

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



Specification of the EGA line:
In the 'ZB-96 line' drop-down menu an EGA line 1 to 8 can be specified.

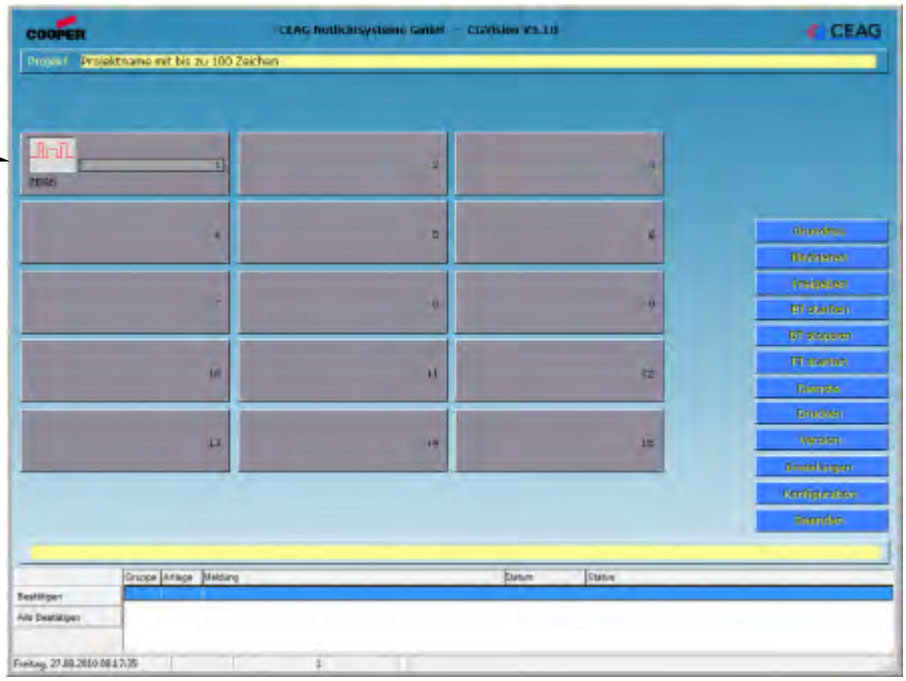


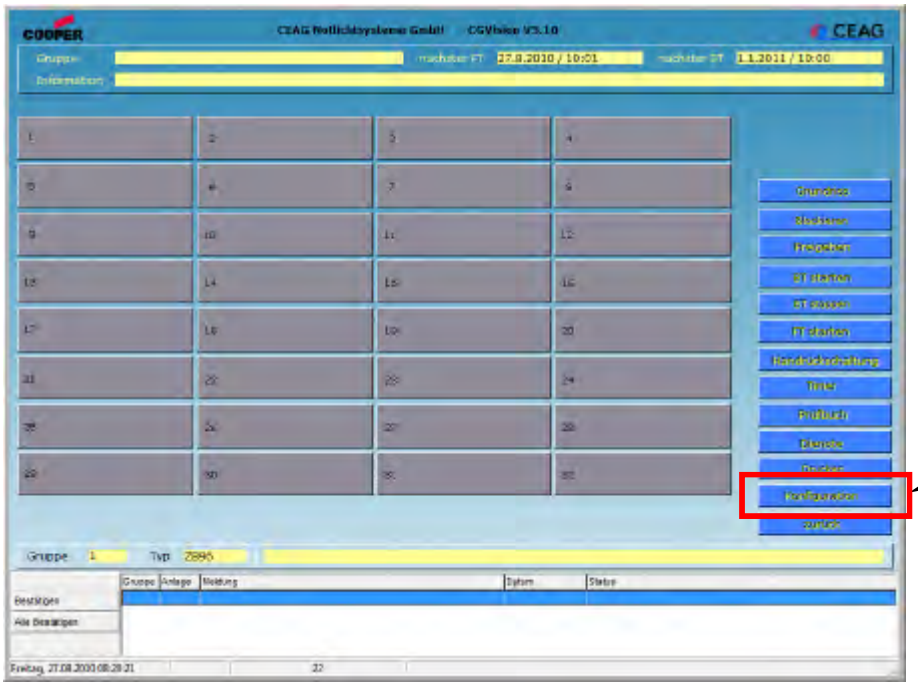
Assigning the COM port:
After entering the EGA line this can be assigned to a COM port (1 to 255) via the drop-down menu.

Accepting creates the device group, and in this way further device groups can be created.
All modifications are saved with OK, and if necessary the program must be restarted.

6.1.2 Creating a ZB96 device:

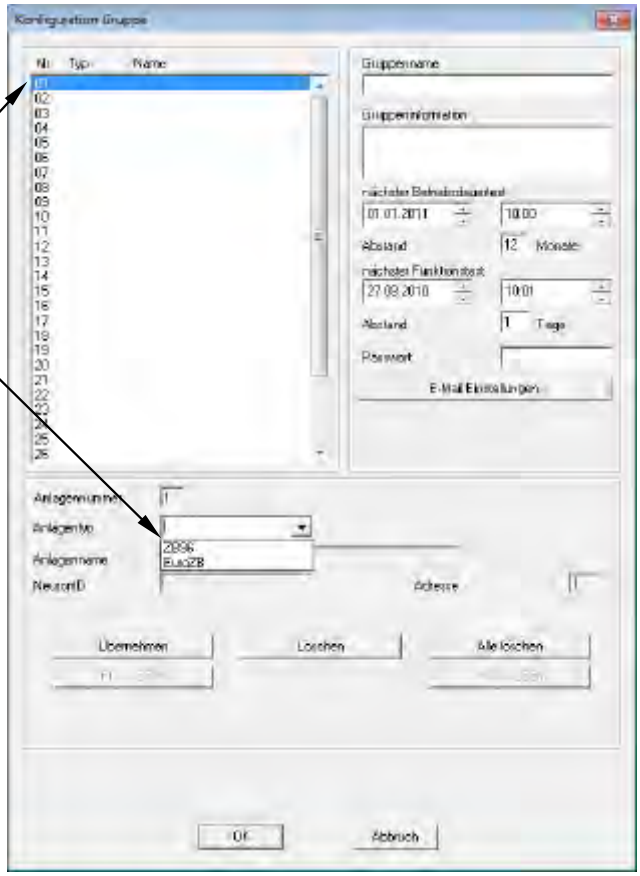
After restarting the ZB96 device group is displayed on the main group screen. Clicking on the ZB96 device group displays the system group screen.



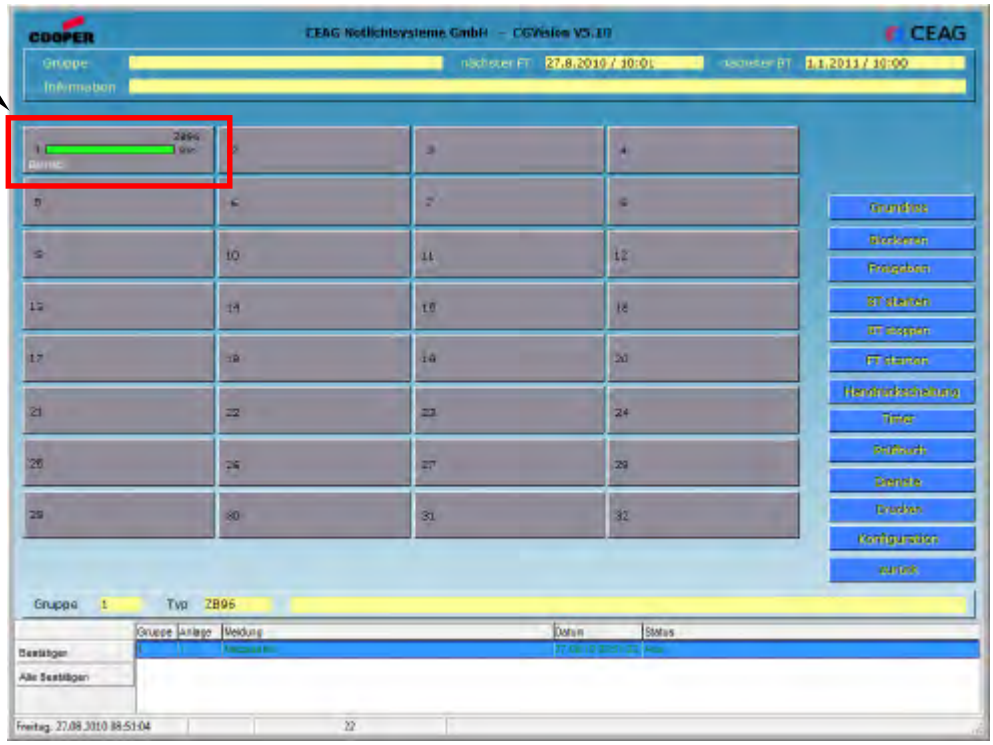


Now ZB96 devices can be added to this group via 'Configuration'.

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.

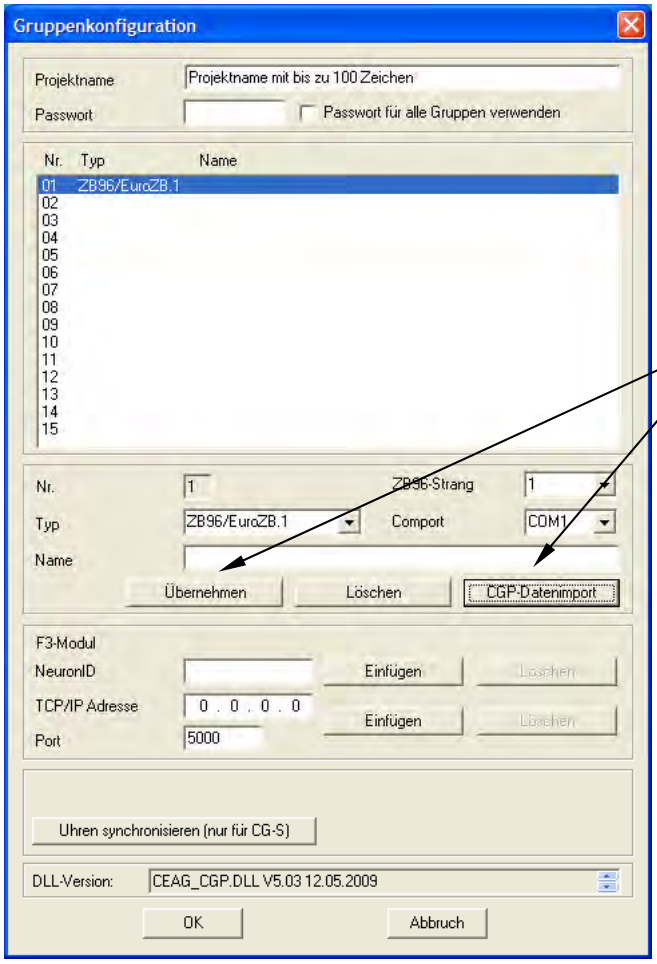


After restarting, all installed ZB96/EuroZB.1 are shown in the main group screen with their system status. Clicking on the button directly displays the device screen.

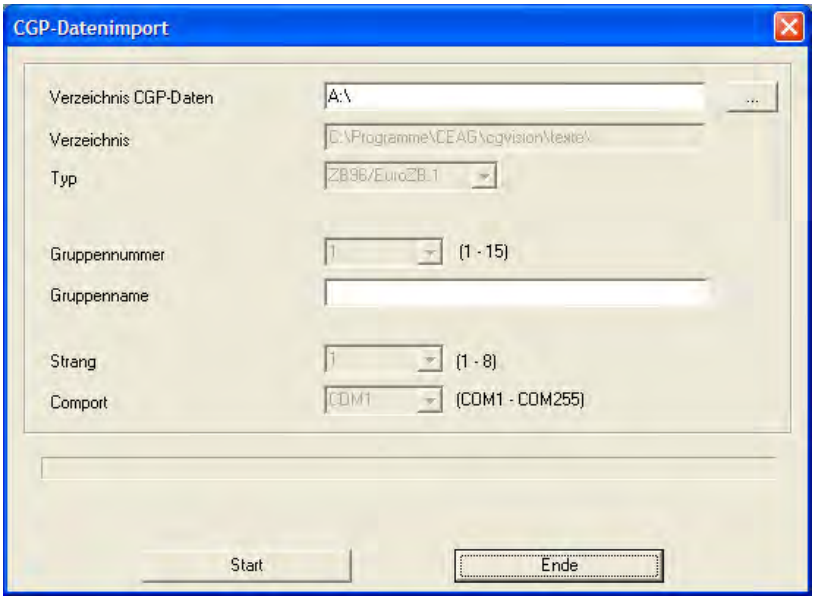


6.2 CGP data import – ZB96

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.



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.

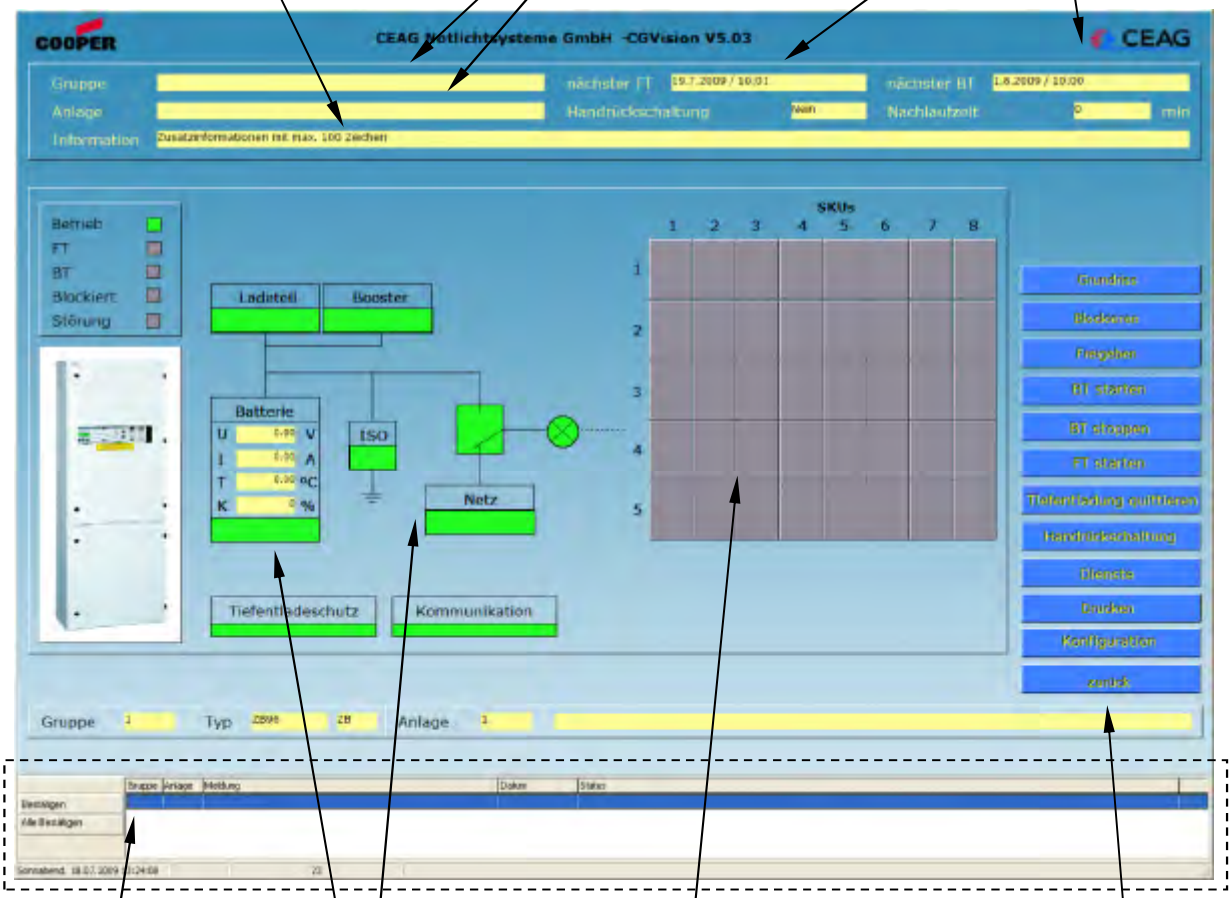
6.3 'Device screen – ZB96'

6.3.1 Structure of the device screen:

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

Displays next function test / continuous operation test

Field for supplementary information (up to 100 characters)



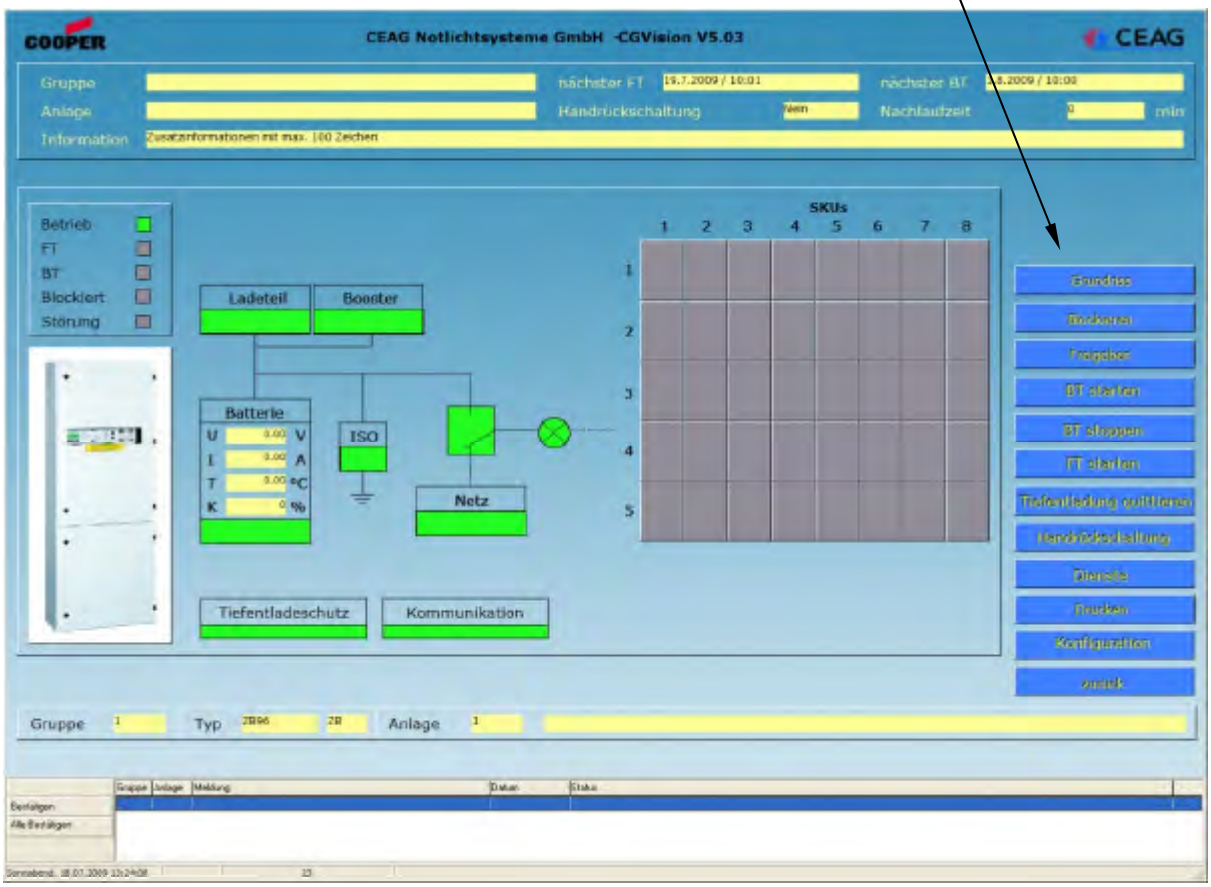
Direct status messages of device

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

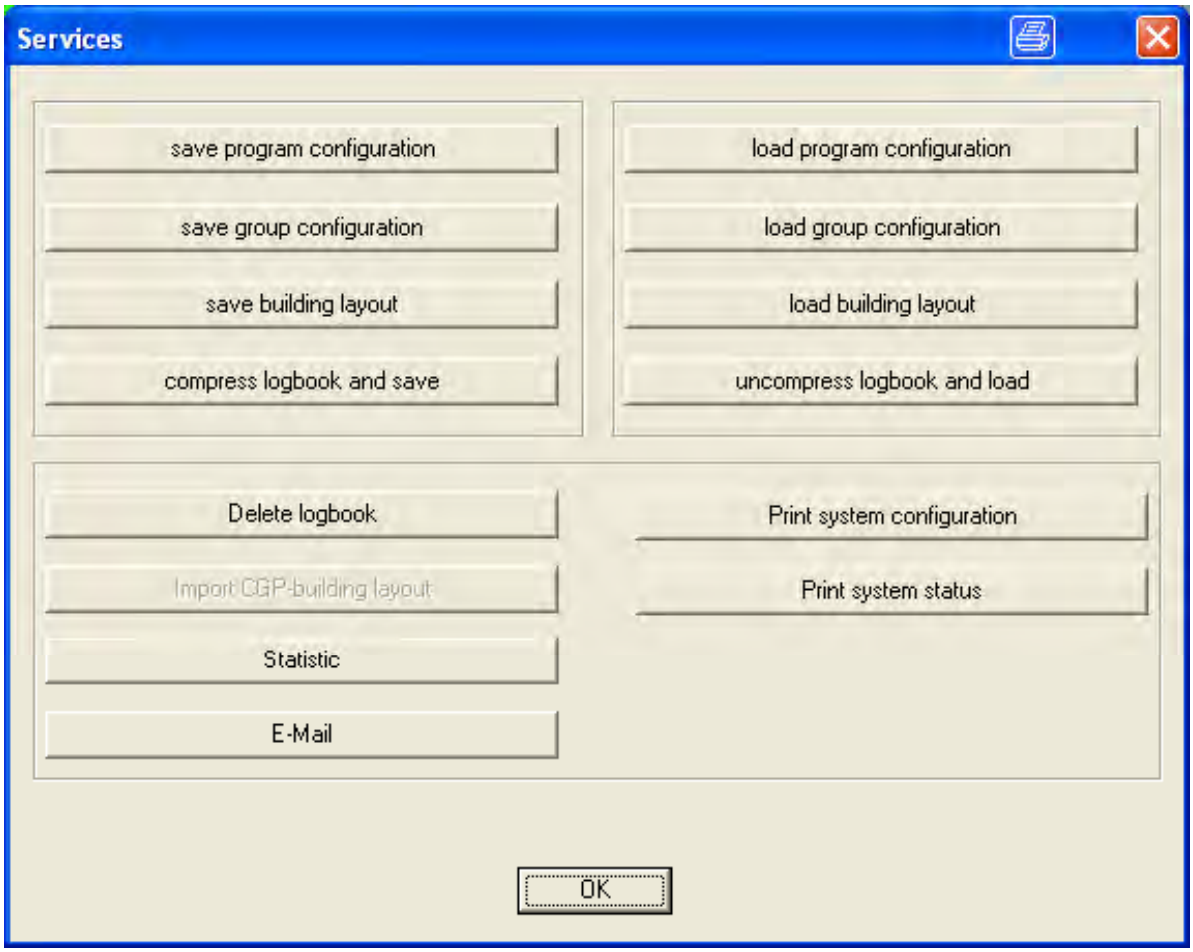
k). 'Configuration'
Configuration settings for all data on the device screen

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

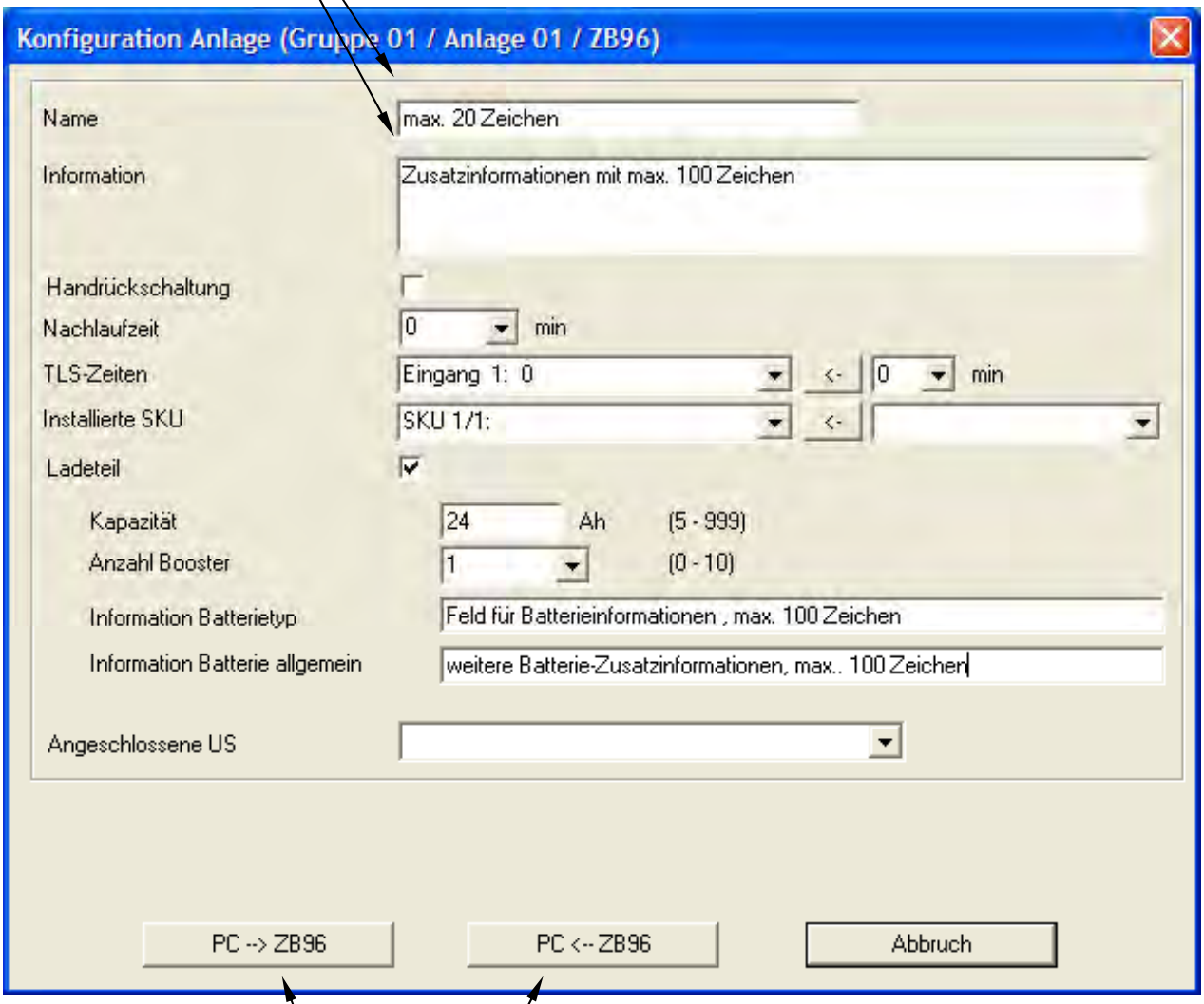
i). 'Services'
Various services for the inspection book and for configuration



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'.

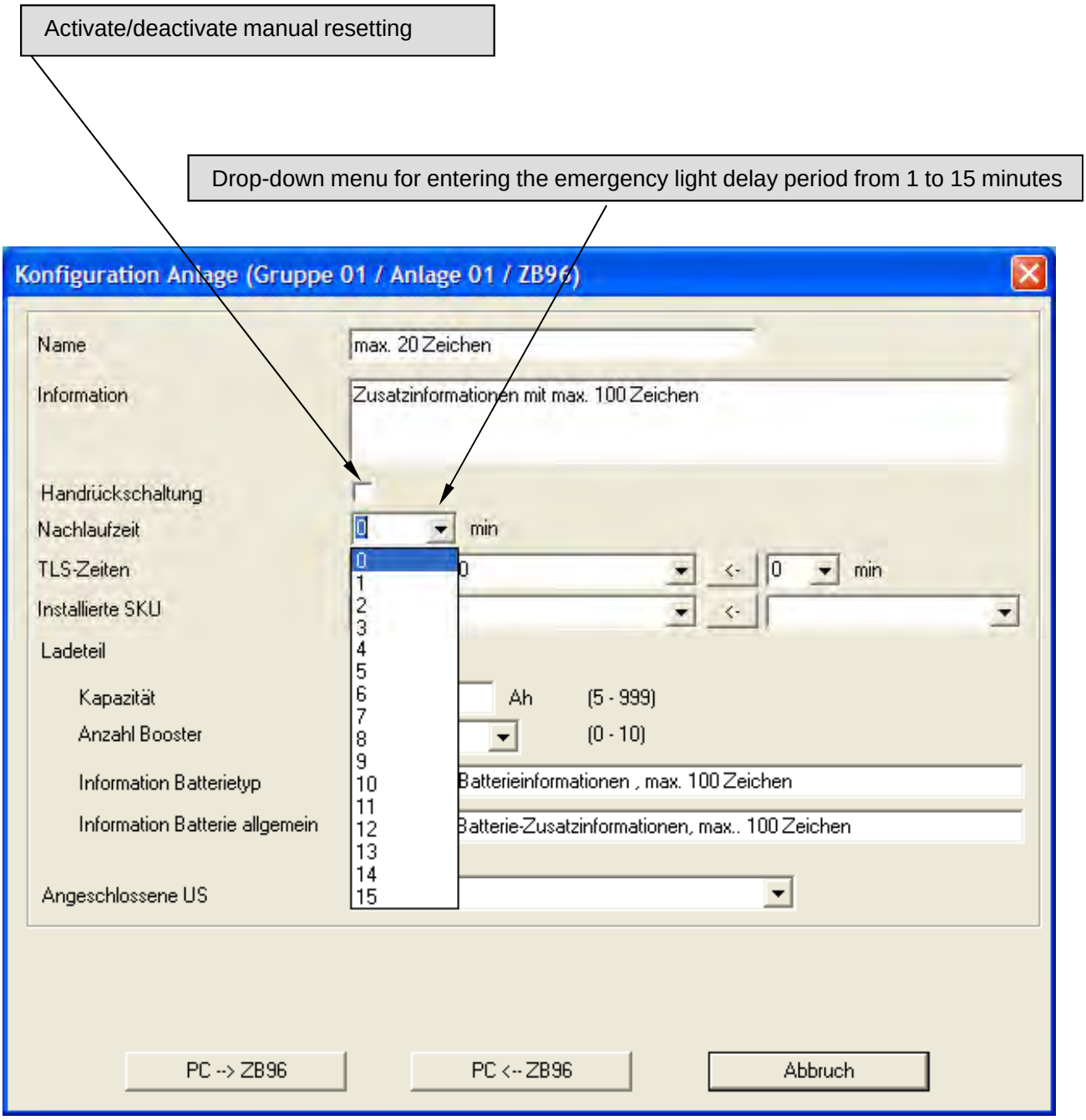
k. 'Configuration of system' (device)
a). General

Entry of device name and supplementary information

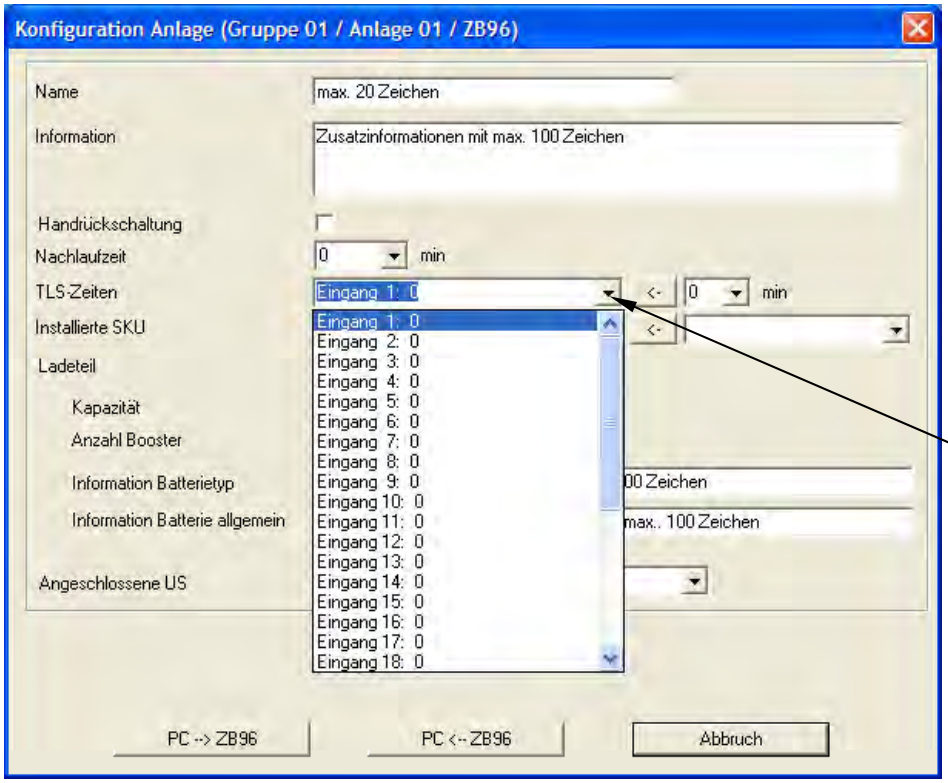


With the 'PC → ZB96' button, all modified settings can be sent to the device.
With the 'PC ← ZB96' button, the current configurations in the device
can be downloaded to the PC.

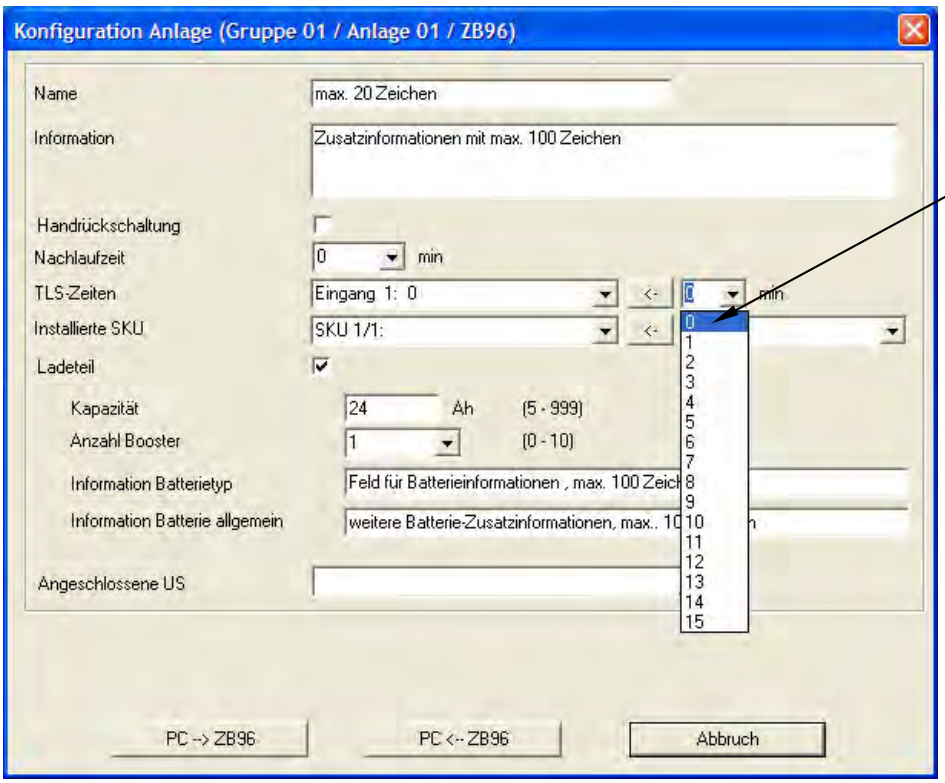
k. 'Configuration of system' (device)
b). Manual resetting and emergency light delay period



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



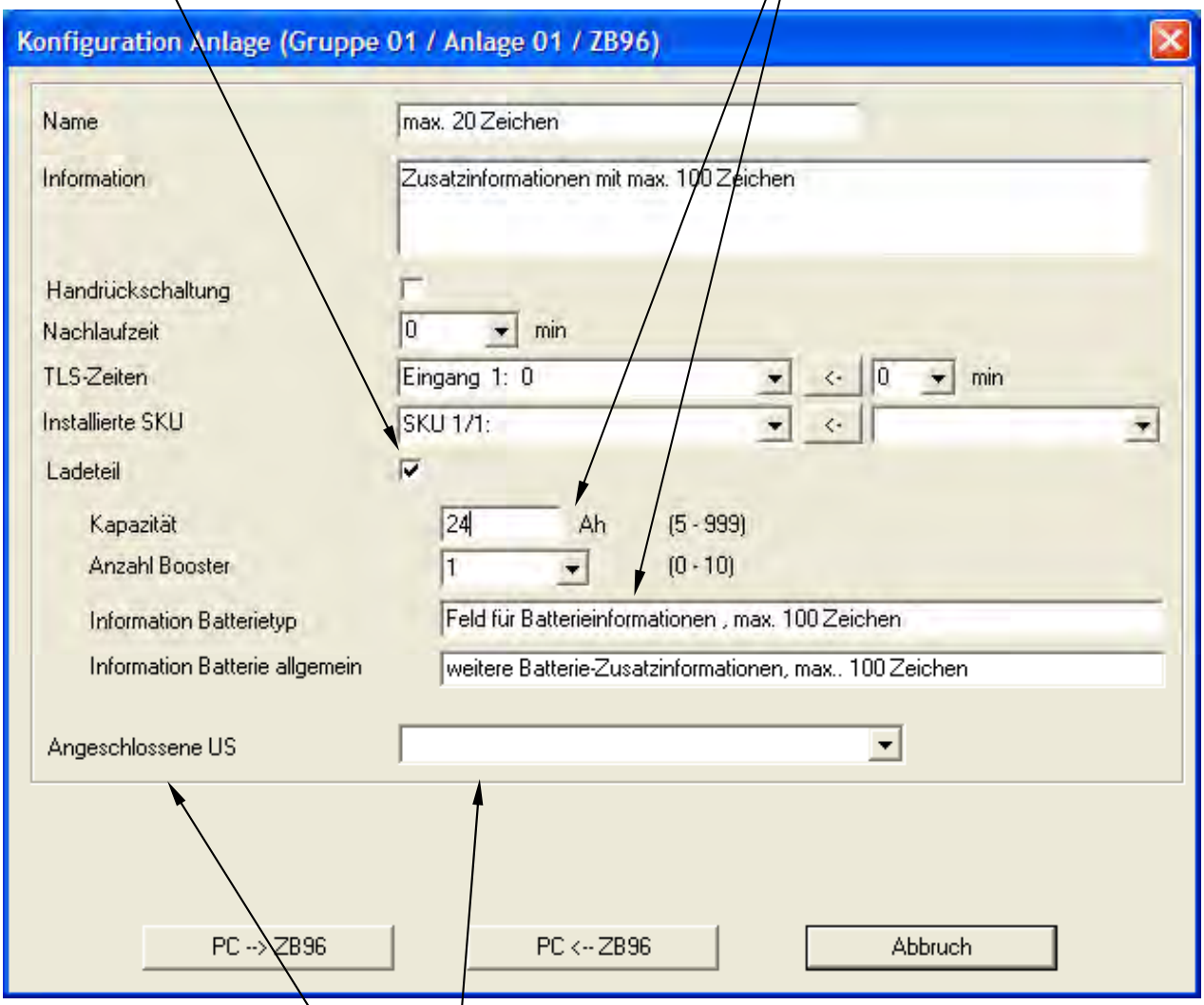
With installed TLS modules (max. 4), inputs from 1 to 32 can be selected via the 'TLS times' drop-down menu.



After selecting the TLS input, a time from 0 to 15 minutes can be set via the 'min' menu.
With the <- button the time is transferred to the TLS input.

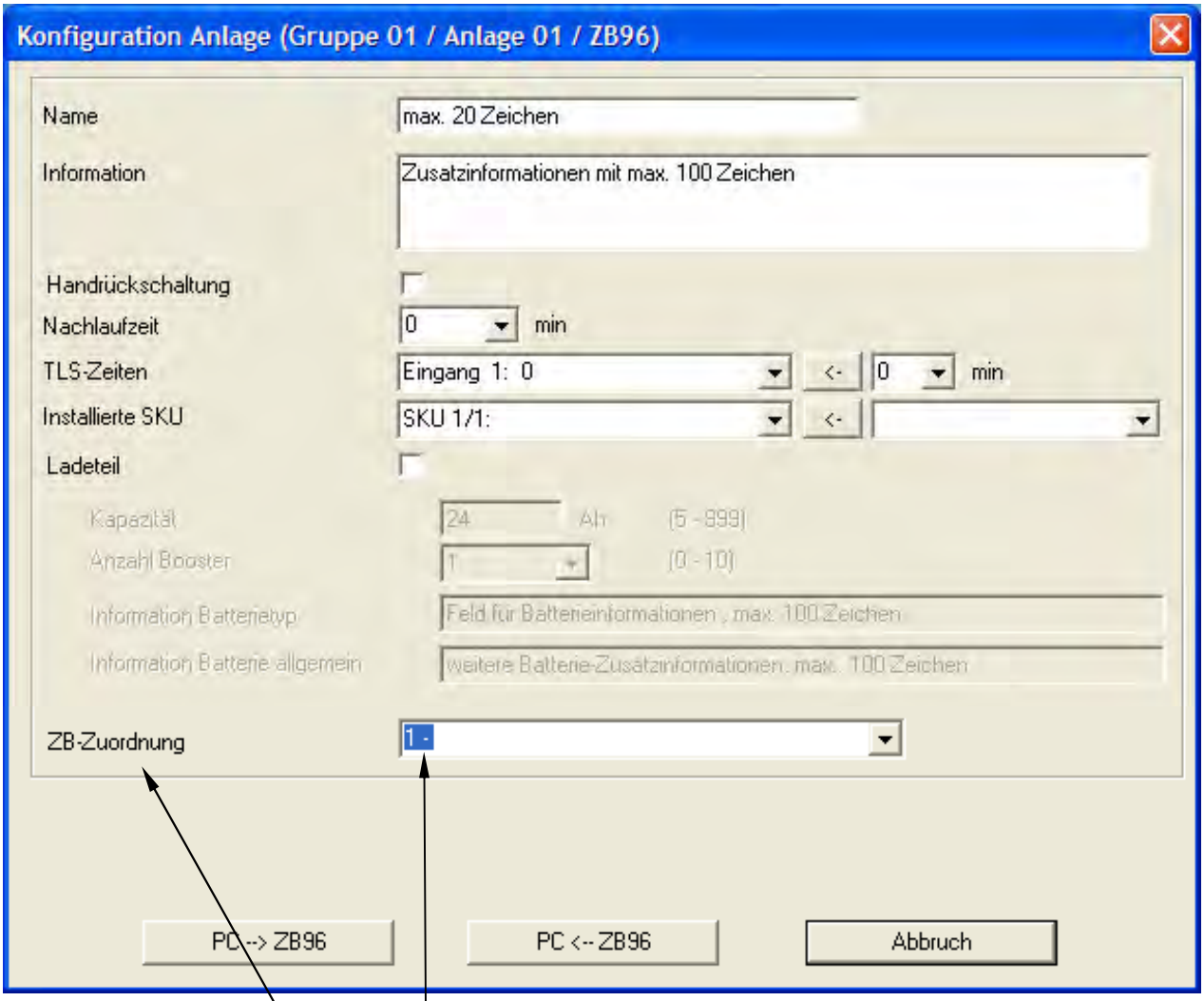
k. 'Configuration of system' (device)
d). Further settings

If a charger exists, battery capacity, number of charging boosters and further information (e.g. date) about the battery can be entered.



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.

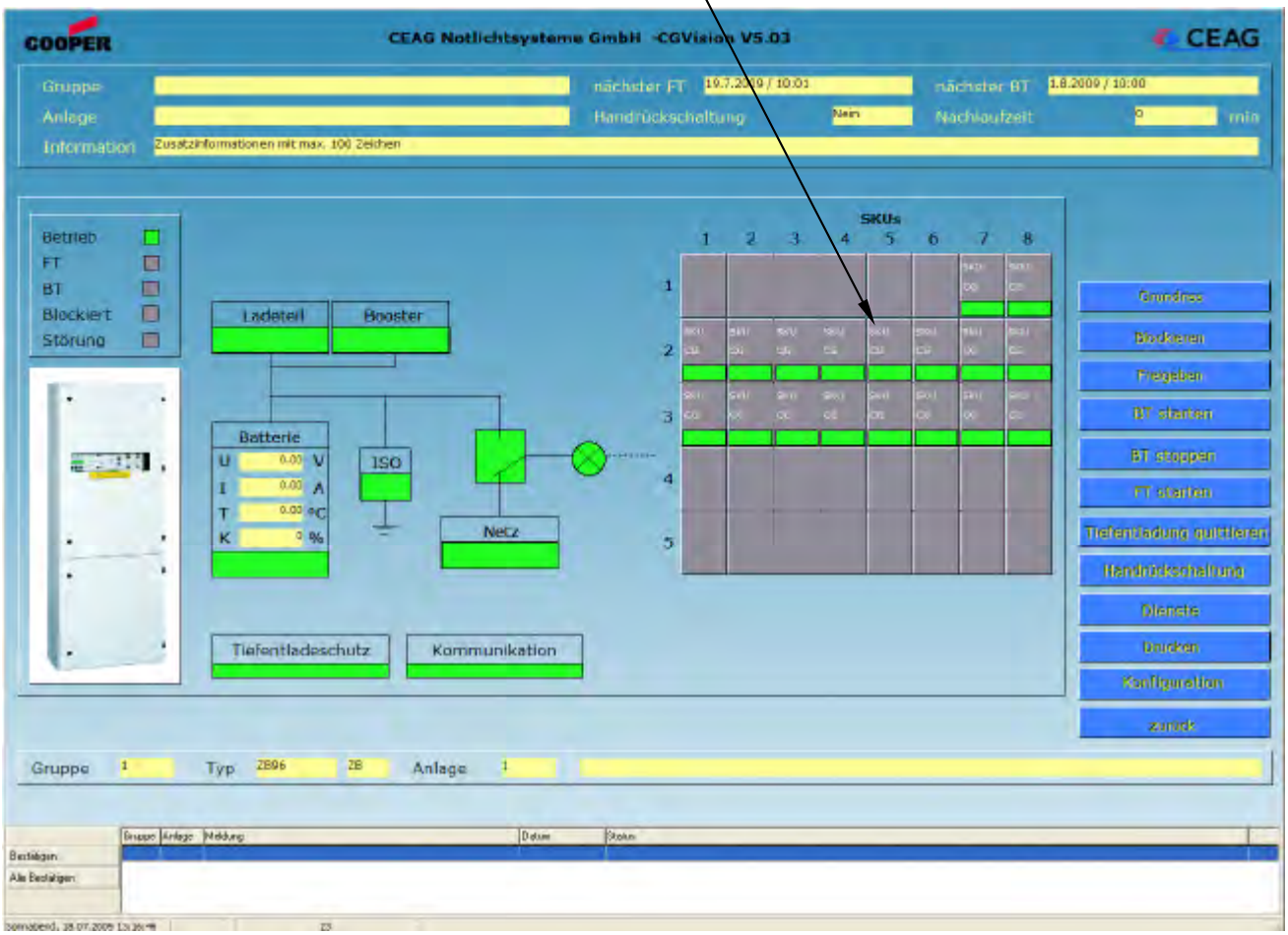
k. 'Configuration of system' (device)
e) Assigning a substation to a ZB96/Euro ZB.1



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



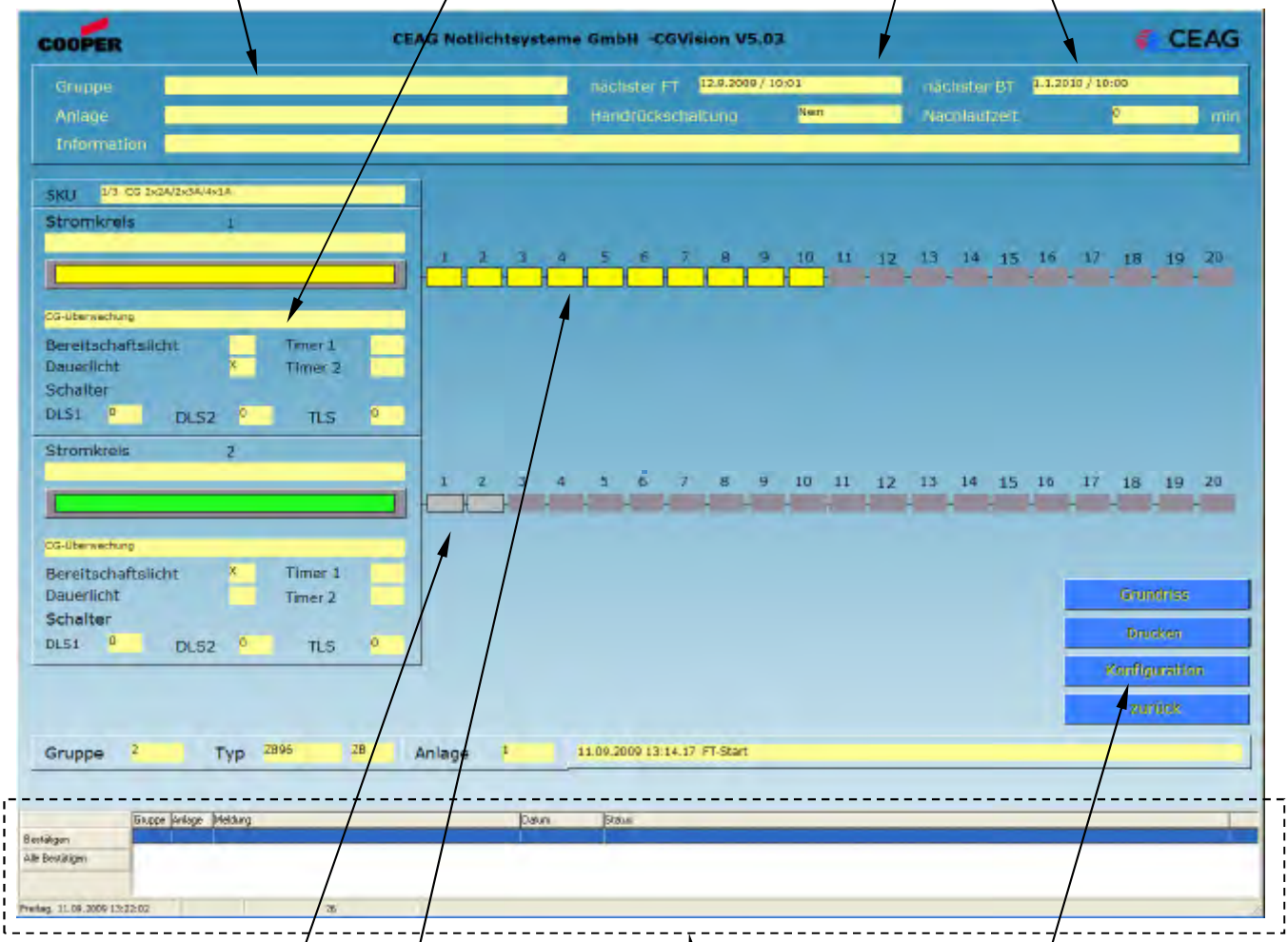
6.4 Circuit change-over module screen

6.4.1 Structure of the circuit change-over module screen

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

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

Circuit configurations,
such as switching type, DLS assignment etc.



Button for circuit configuration (see Point 6.4.2 circuit configuration)

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

Installed luminaires with status display in the first circuit (max. 40 characters)

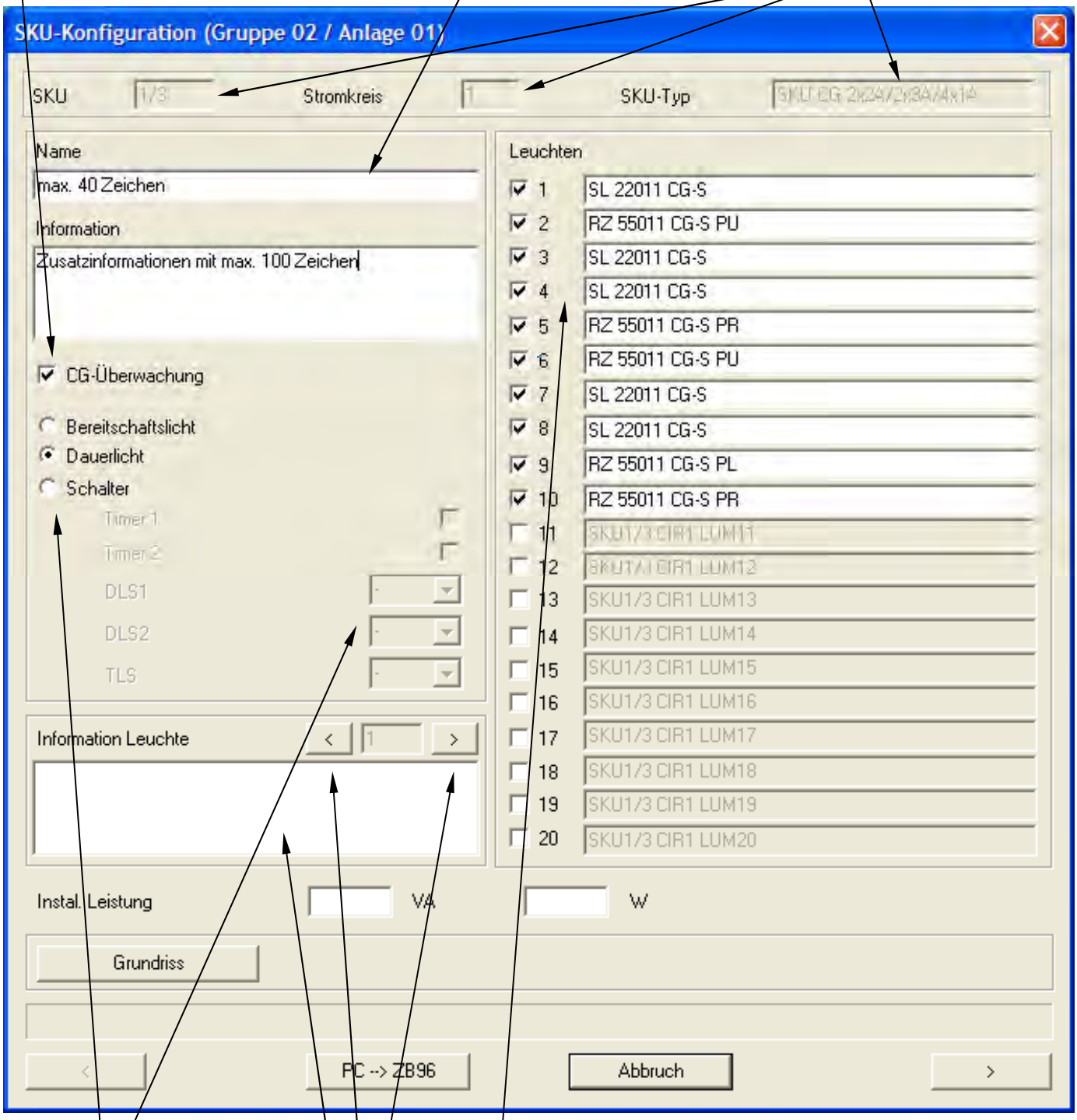
Installed luminaires with status display in the second circuit (max. 40 characters) with circuit change-over module 2x2A/2x3A

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

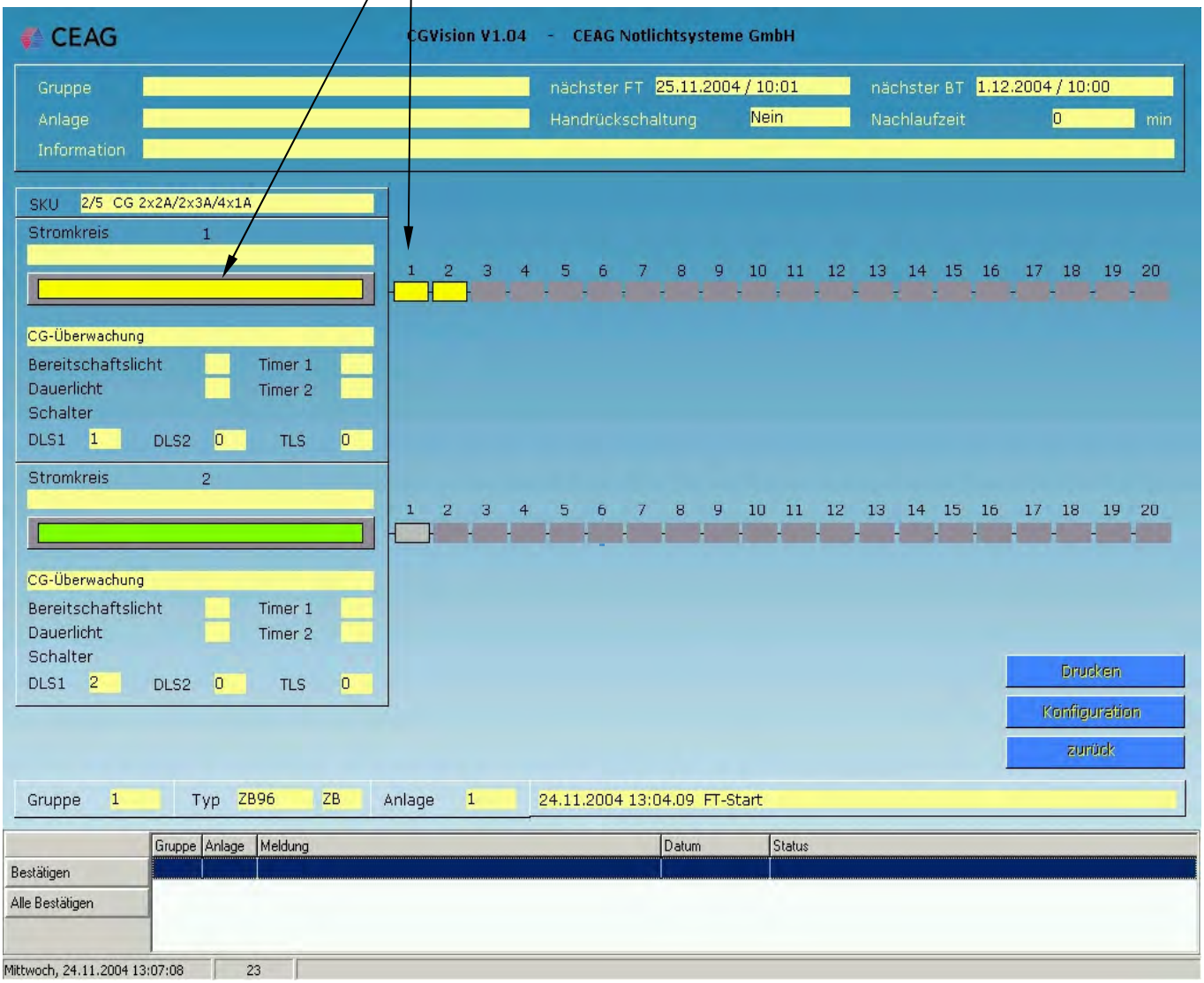


Circuit programming such as Switching type and DLS/TLS assignment

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.



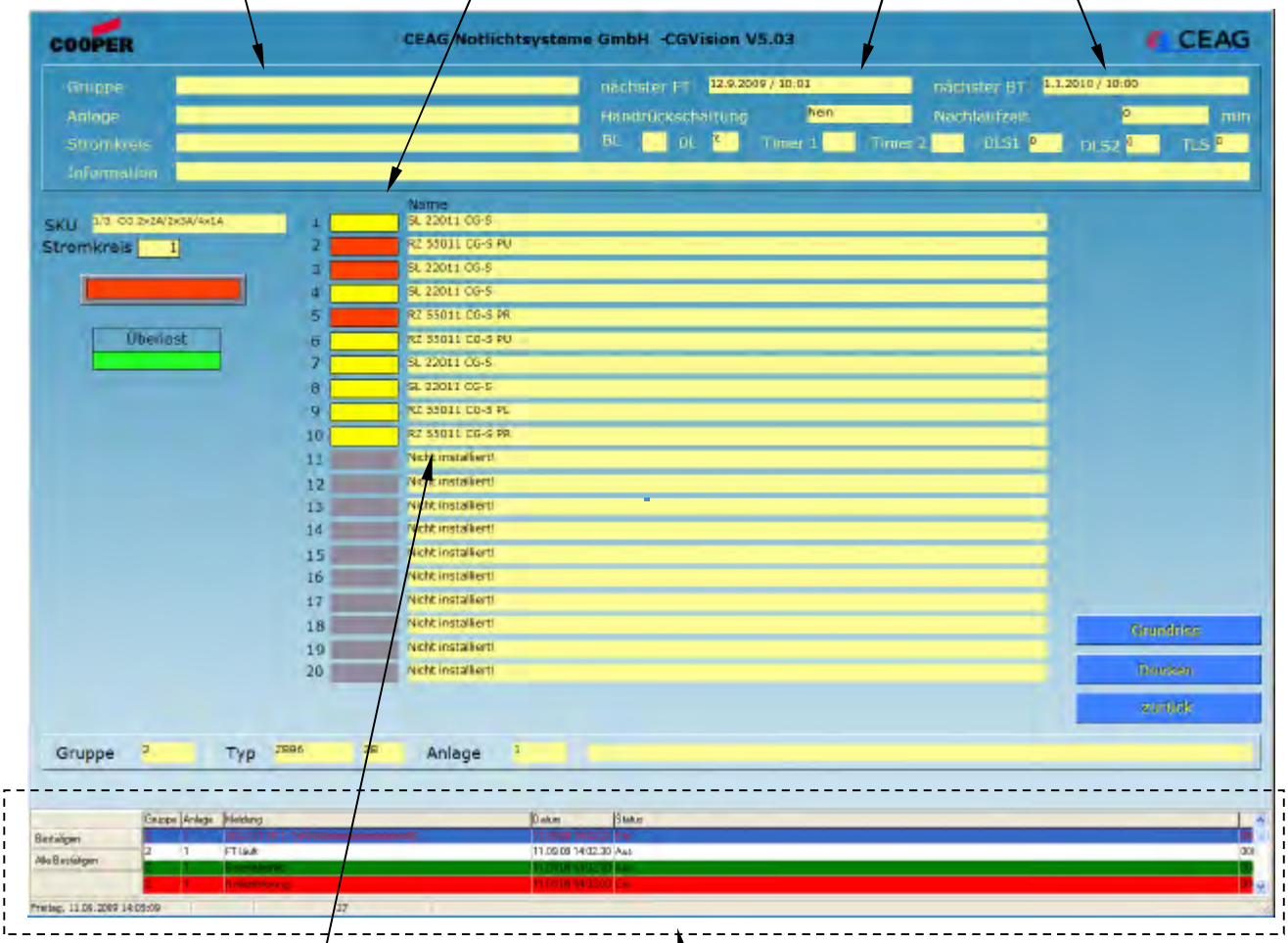
6.5 Circuit screen

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

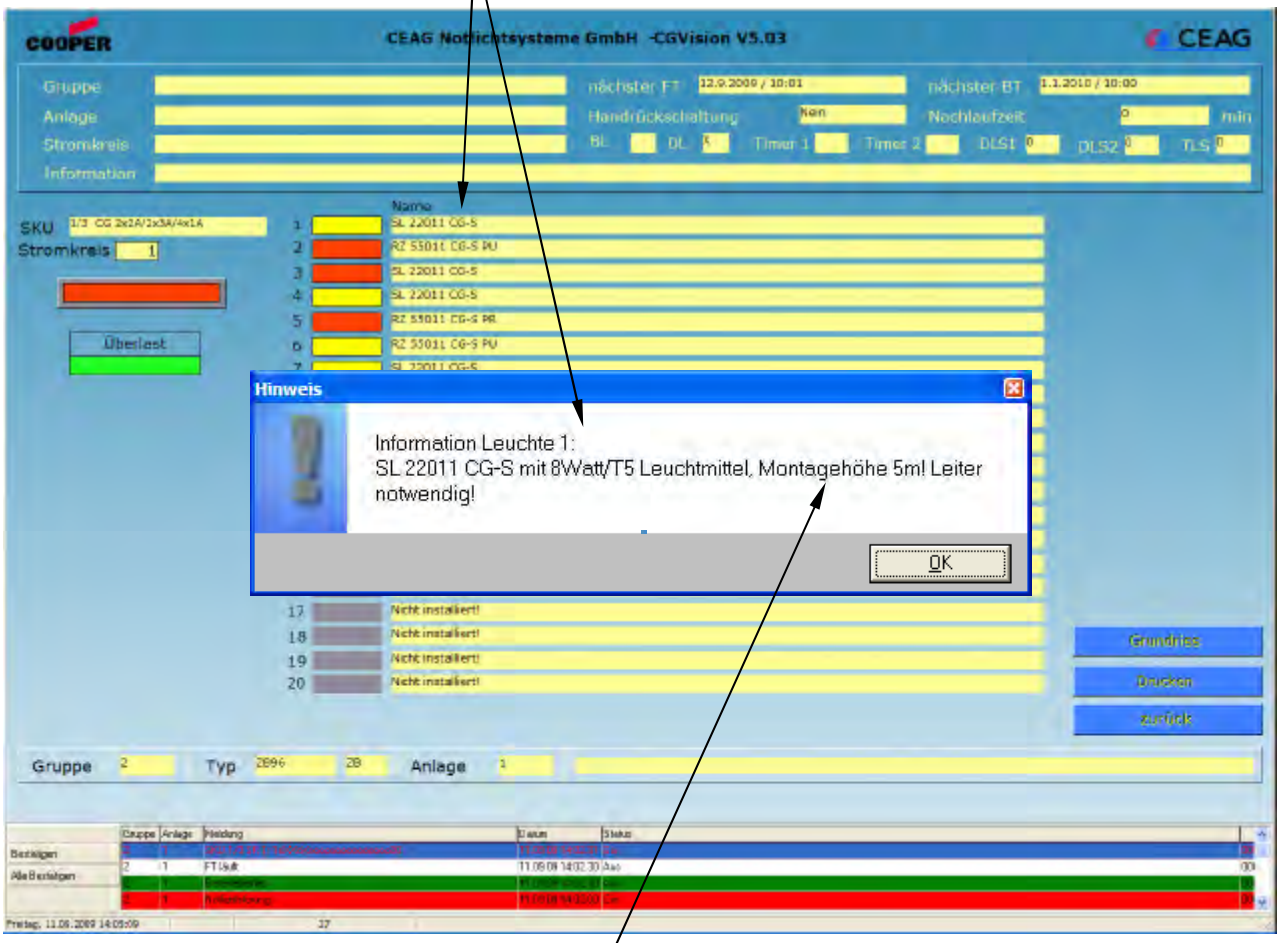


Alarm list with confirmation option, identical to the main group screen

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'.



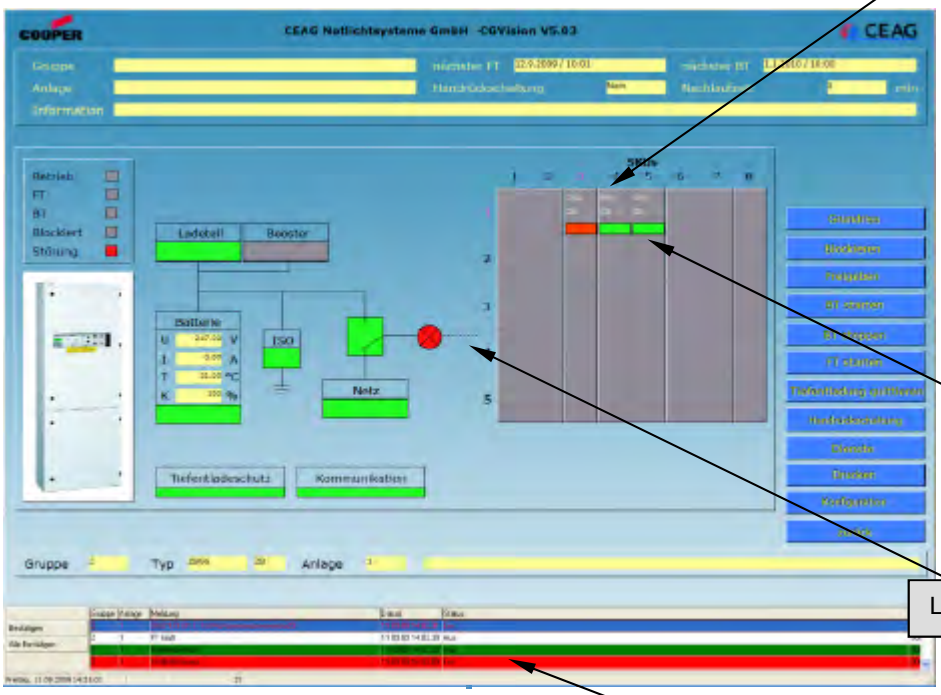
Expanded luminaire texts, e.g. with specification of mounting height. Luminaire type, order number etc.
Note: With a faulty luminaire this text is also printed out in the fault printout.

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)



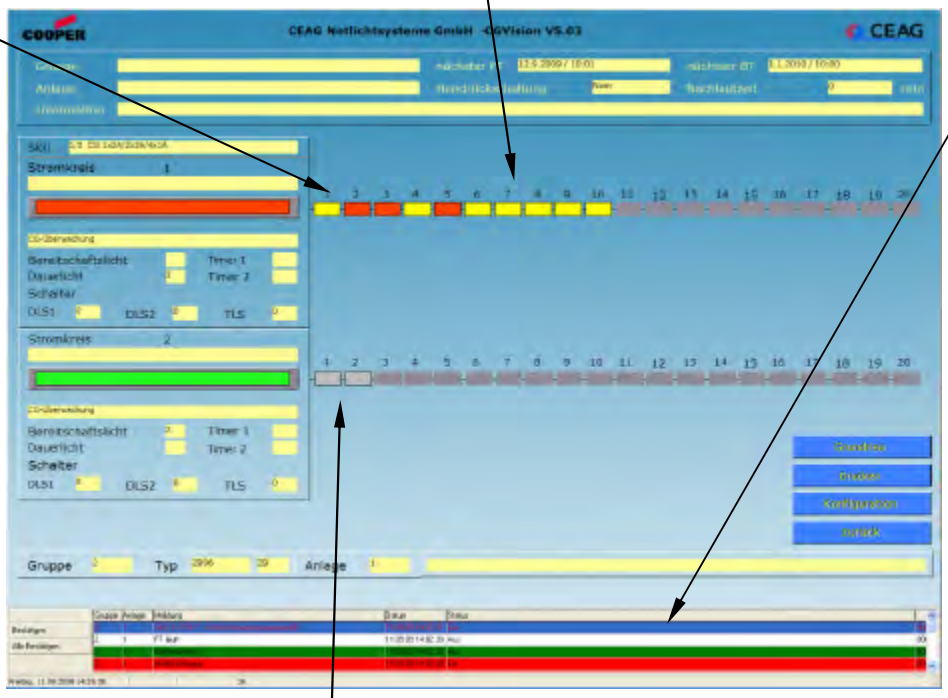
Circuit change-over module No. 1/5 and No. 1/6 O.K. (green)

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

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CEAG Notlichtsysteme GmbH

Senator-Schwartz-Ring 26
D-59494 Soest
Telefon + 49 2921 / 69-870
Telefax + 49 2921 / 69-617
Internet http://www.ceag.de
E-Mail Info-n@ceag.de

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Installation and operating instructions
Visualisation and monitoring software
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For the monitoring and control of
CEAG emergency lighting systems

CGVision from V5.10

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Section 7
Device family GVL 24.1

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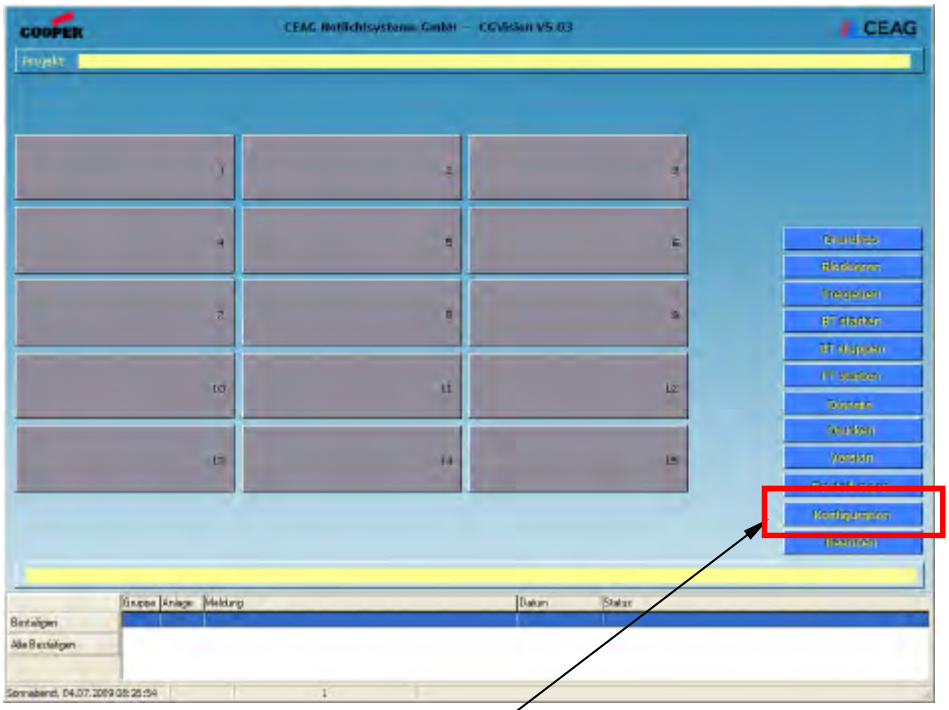
7 Device family GVL 24.1

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

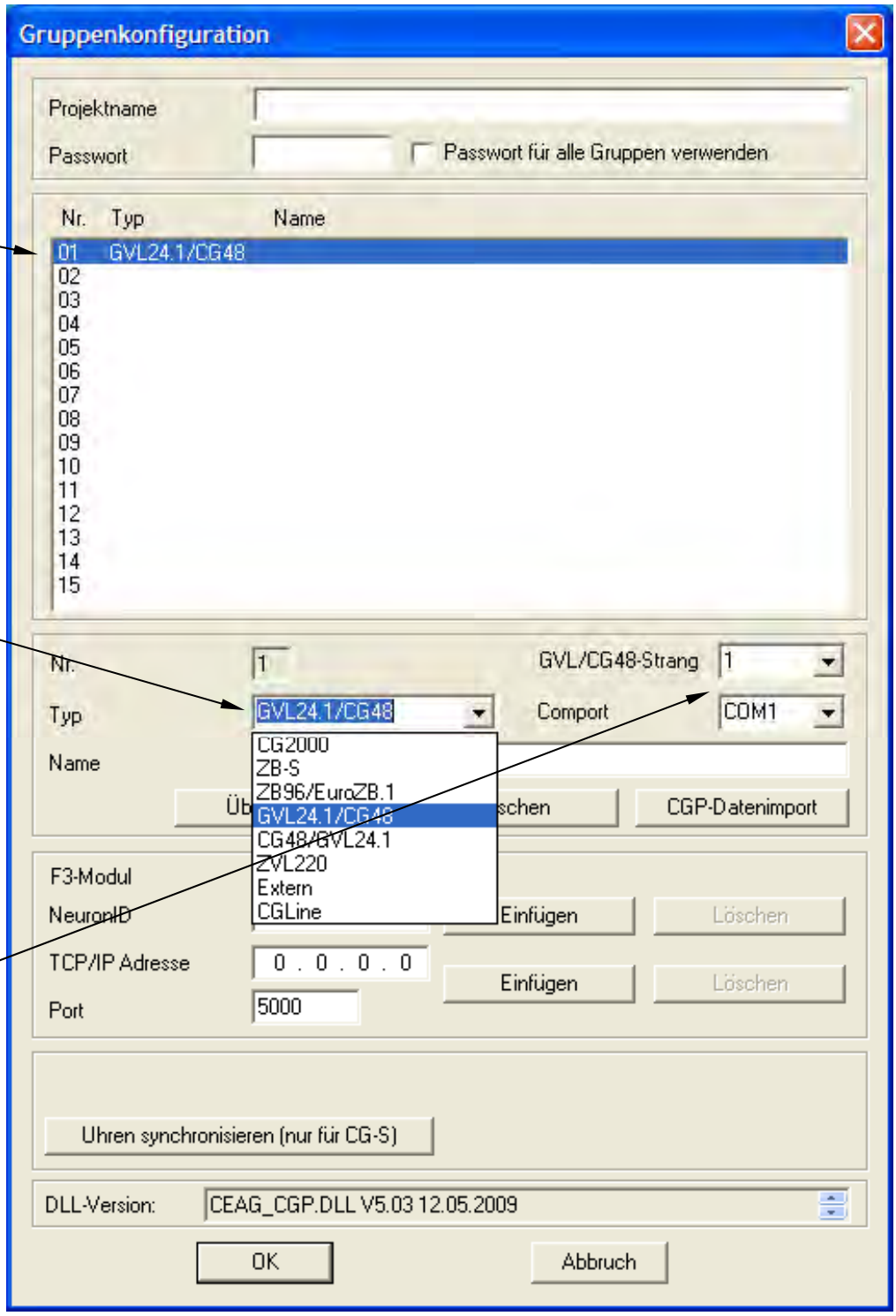
The group configuration menu then appears:

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

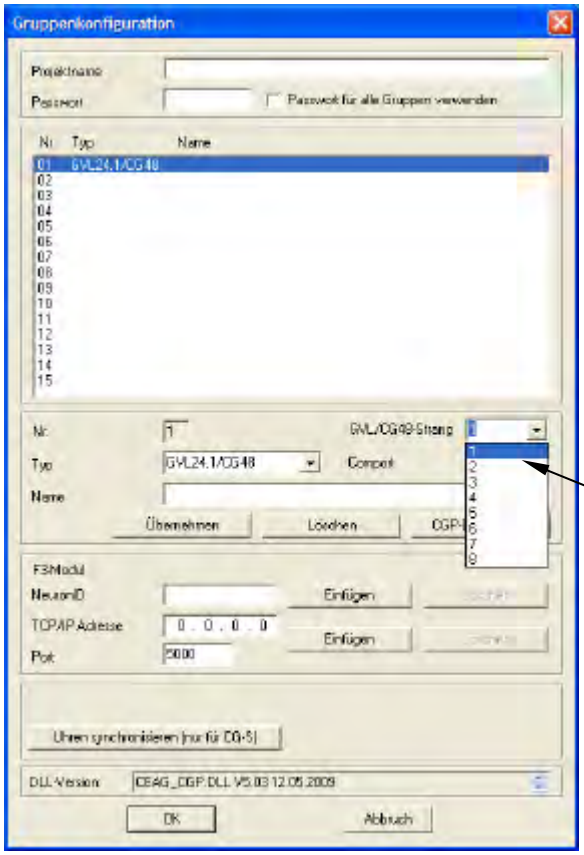
b) In the 'Type' drop-down menu the system type 'GVL24.1/CG48' can be selected and a system group name can be assigned

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'.

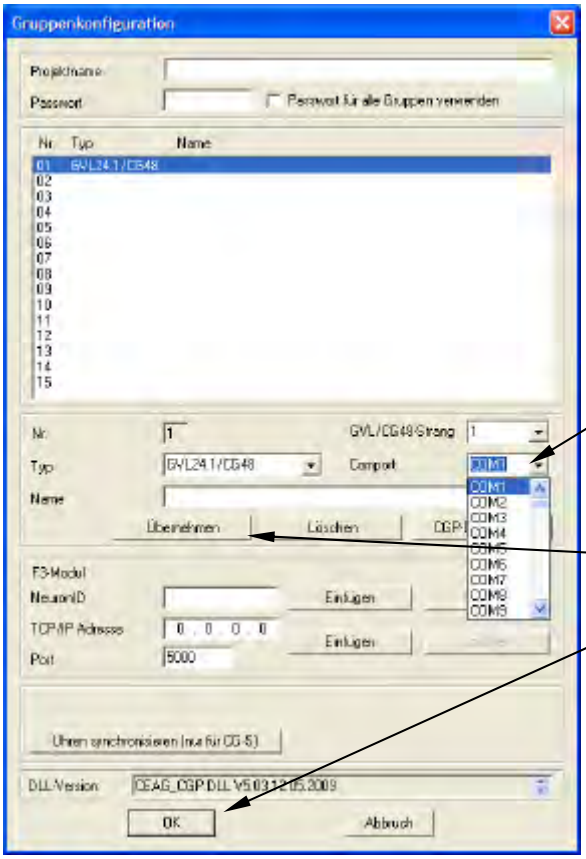
d) Confirm with 'Accept', define further groups or exit with 'OK'



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



Specification of the EGA line:
In the 'GVL/CG48 line' drop-down menu an EGA line 1 to 8 can be specified.

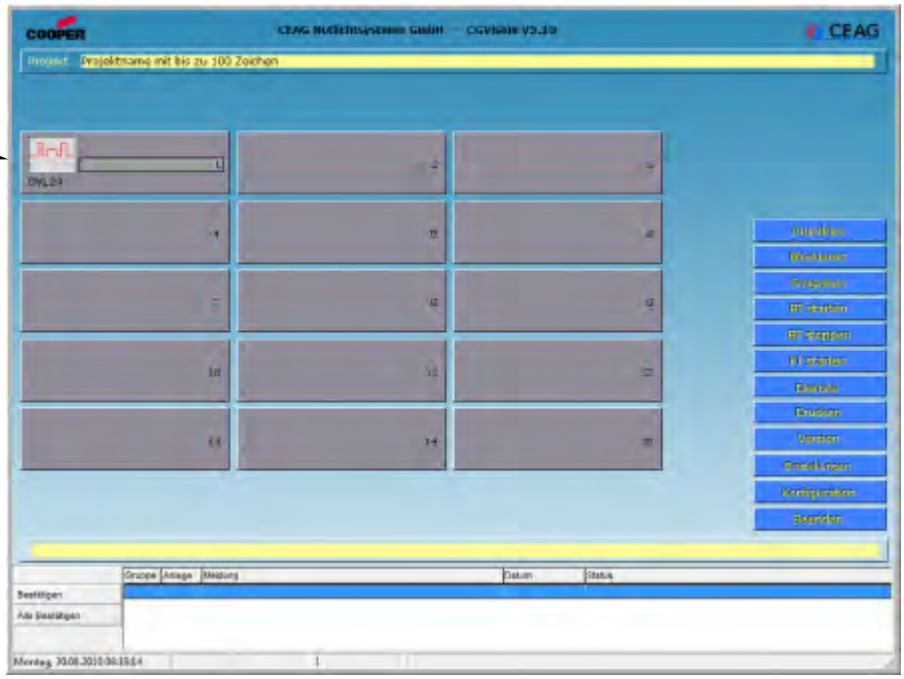


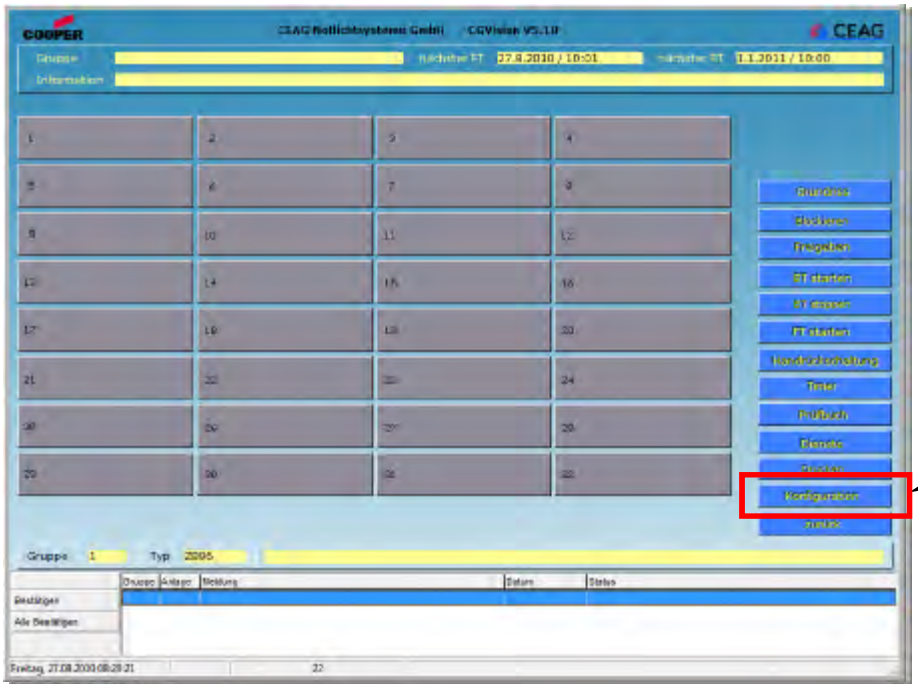
Assigning the COM port:
after entering the EGA line this can be assigned to a COM port (1 to 255) via the drop-down menu.

Accepting creates the device group, and in this way further device groups can be created.
All modifications are saved with OK, and if necessary the program must be restarted.

7.1.2 Creating a GVL 24.1 device:

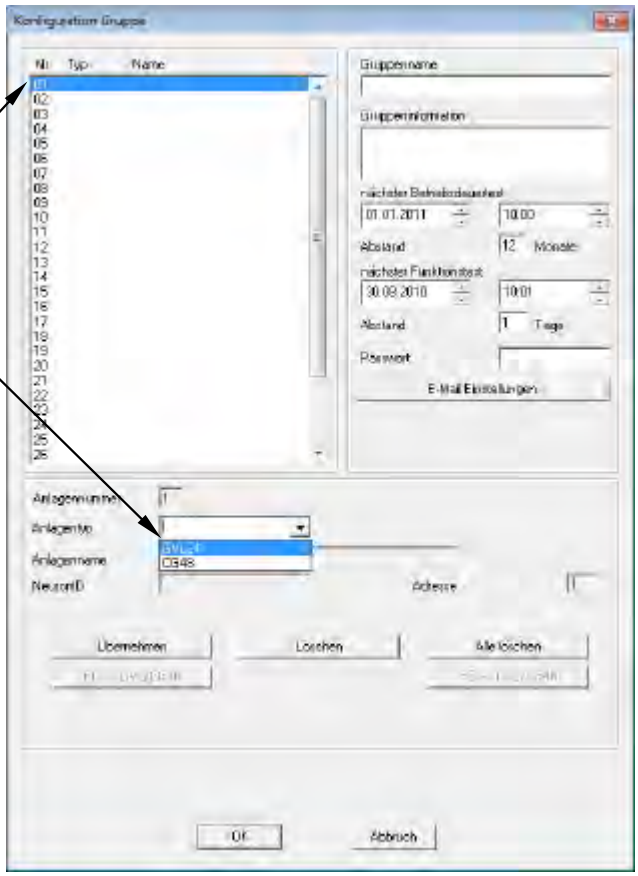
After restarting the GVL 24.1 device group is displayed in the main group screen. If the GVL 24.1 device group is clicked on the system group screen is then displayed.



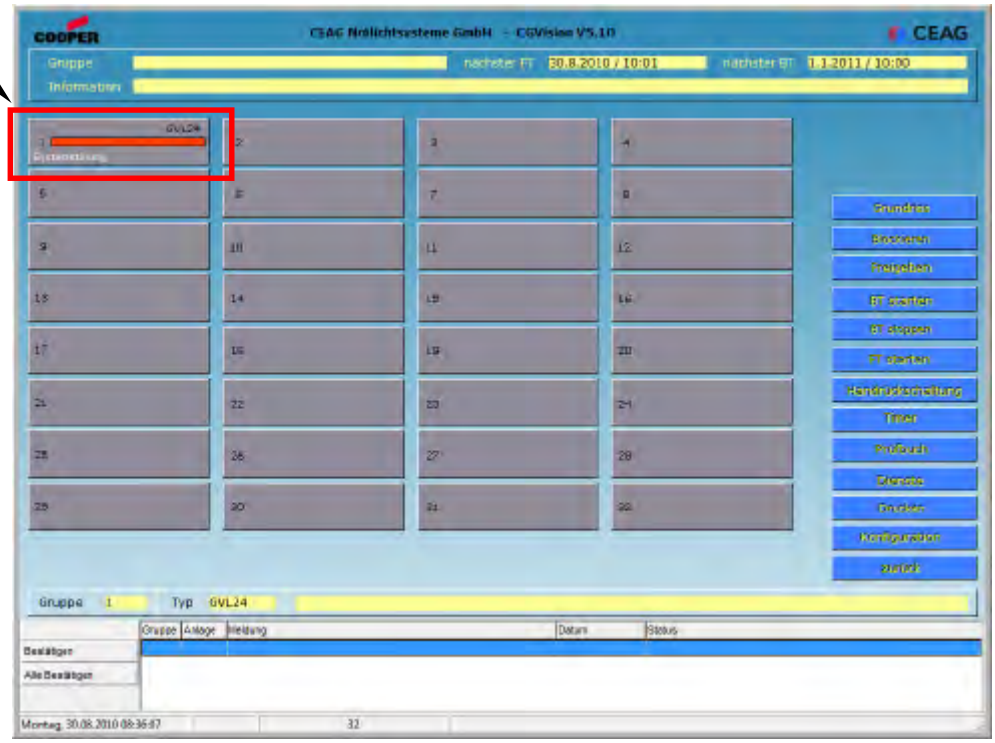


Now GVL 24.1 devices can be added to this group via 'Configuration'.

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.

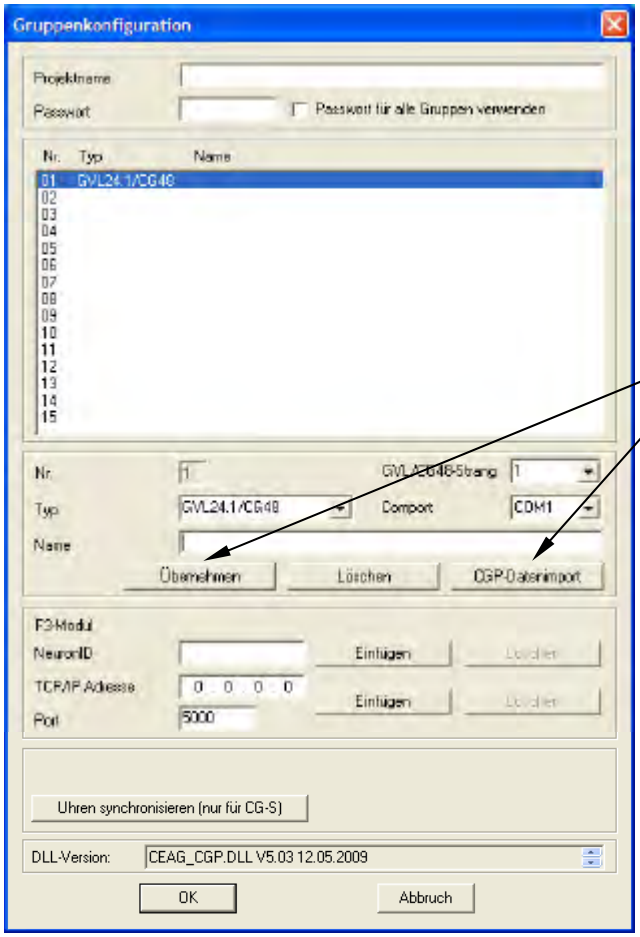


After restarting, all installed GVL 24.1 are shown in the system group screen with their system status. Clicking on the button directly displays the device screen.

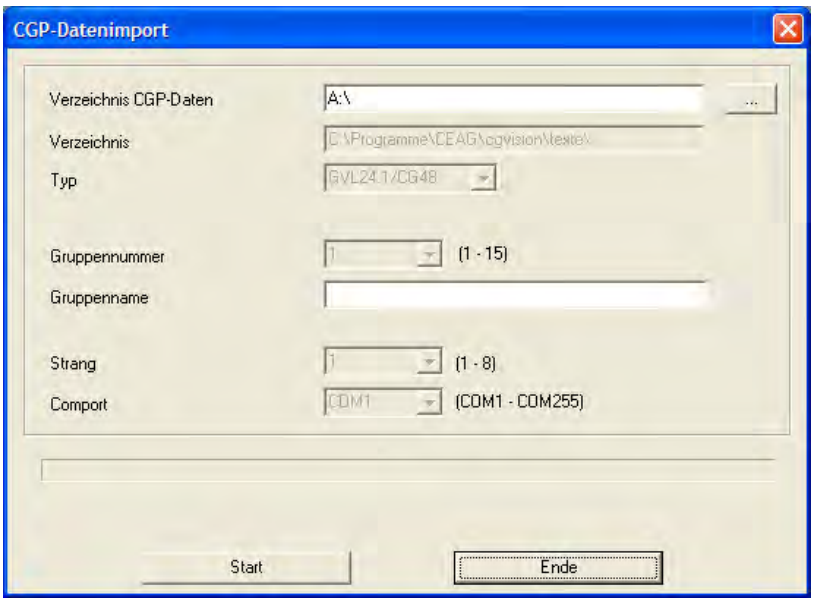


7.2 CGP data import – GVL24.1 / CG48

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.



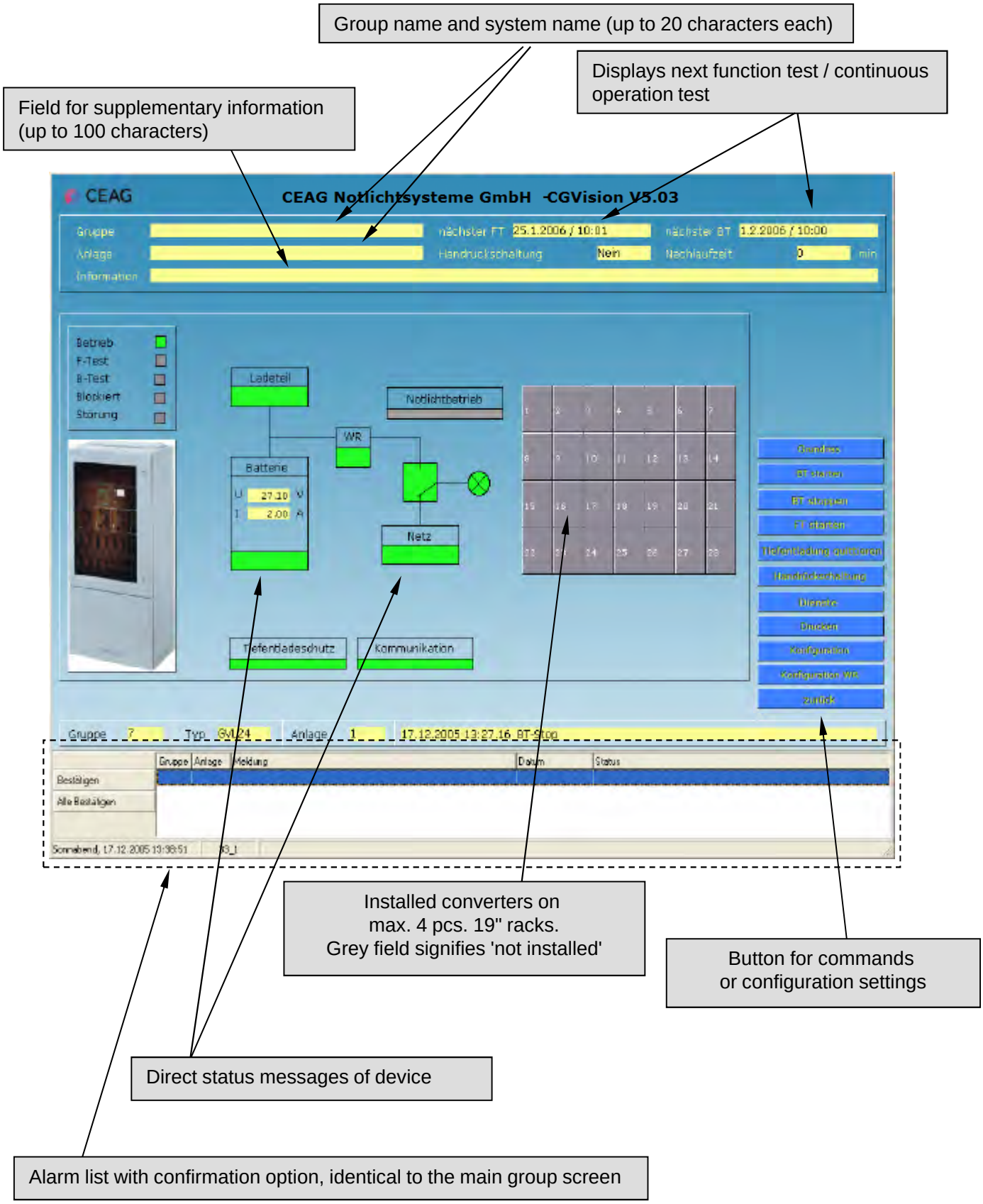
Before a CGP data import, the line and the COM port need to be specified. This must be confirmed with 'Accept'.
CGP data import is started via the 'CGP data import' button.



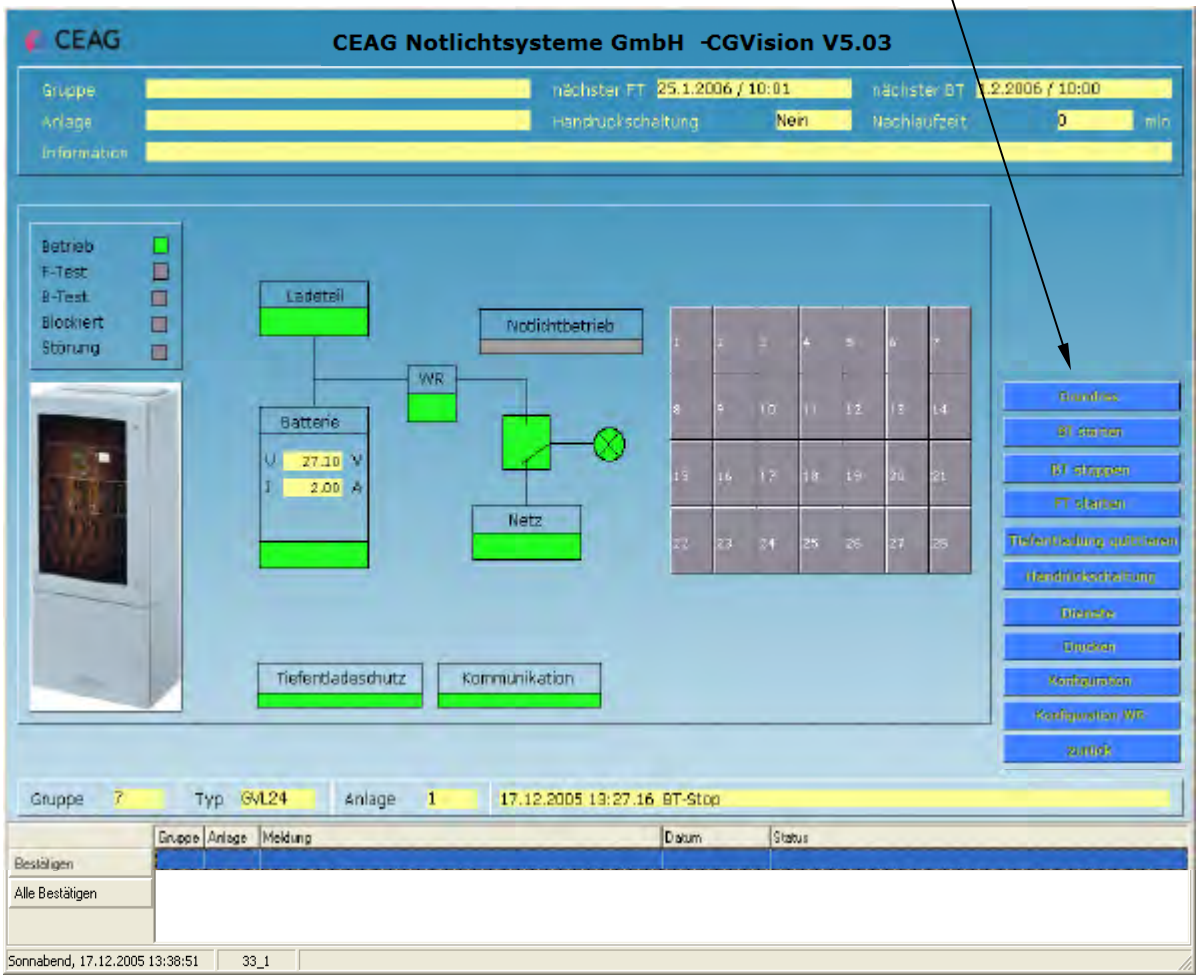
The following window opens. Here the folder for the CGP configuration data can be specified. Typically as the default source the disk drive A: is specified, used as standard with the CGP for data backups. The CGP data import is triggered with 'Start'. Please follow the following dialog boxes and information.

7.3 Device screen – GVL 24.1

7.3.1 Structure of the device screen:



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

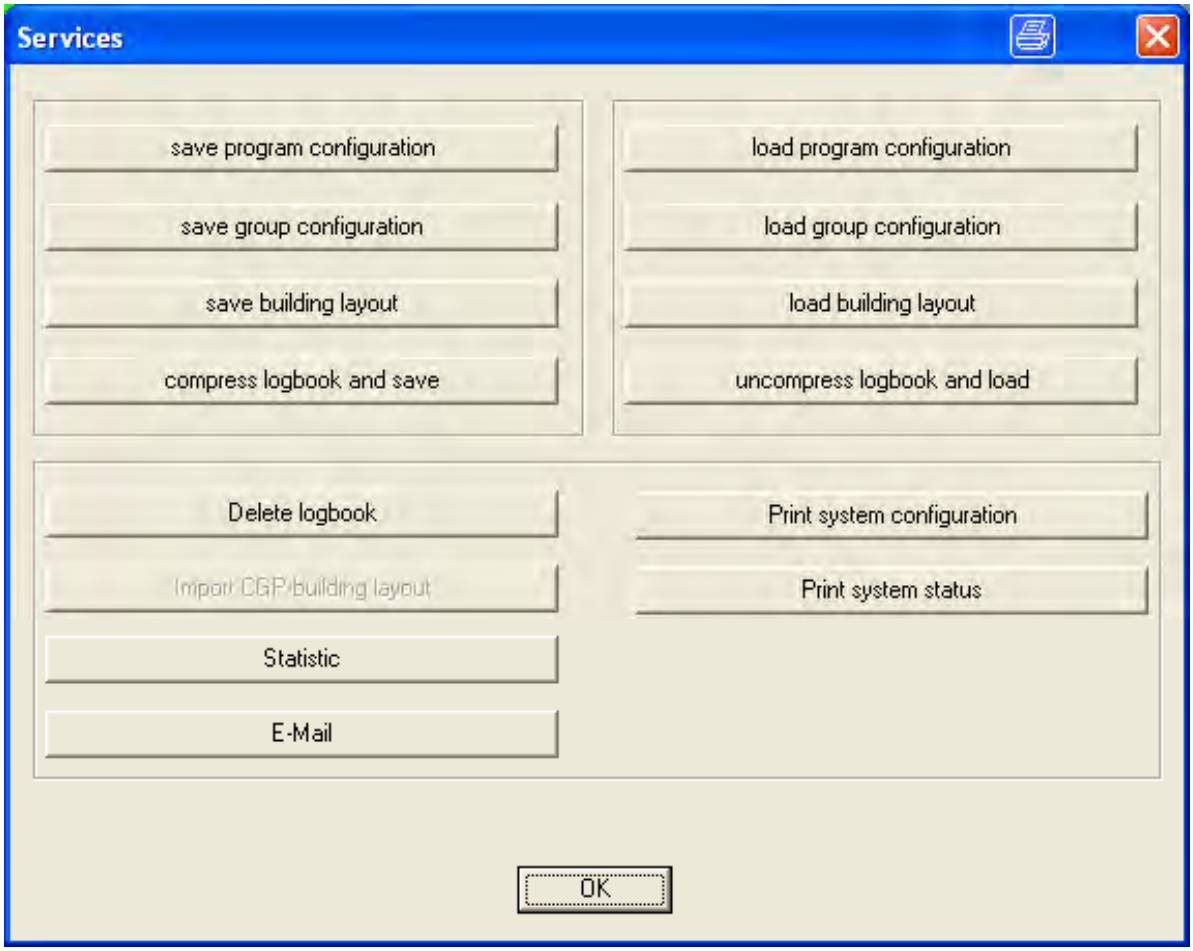
j). 'Configuration WR'
Configuration settings for converter modules

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

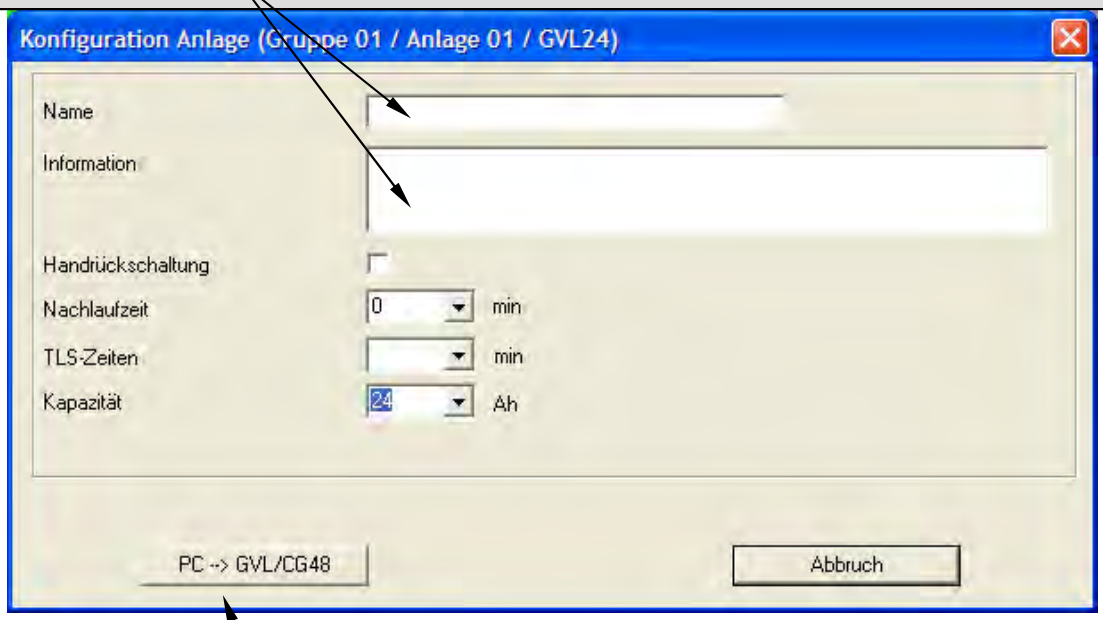
g). 'Services'
Various services for the inspection book and for configuration



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

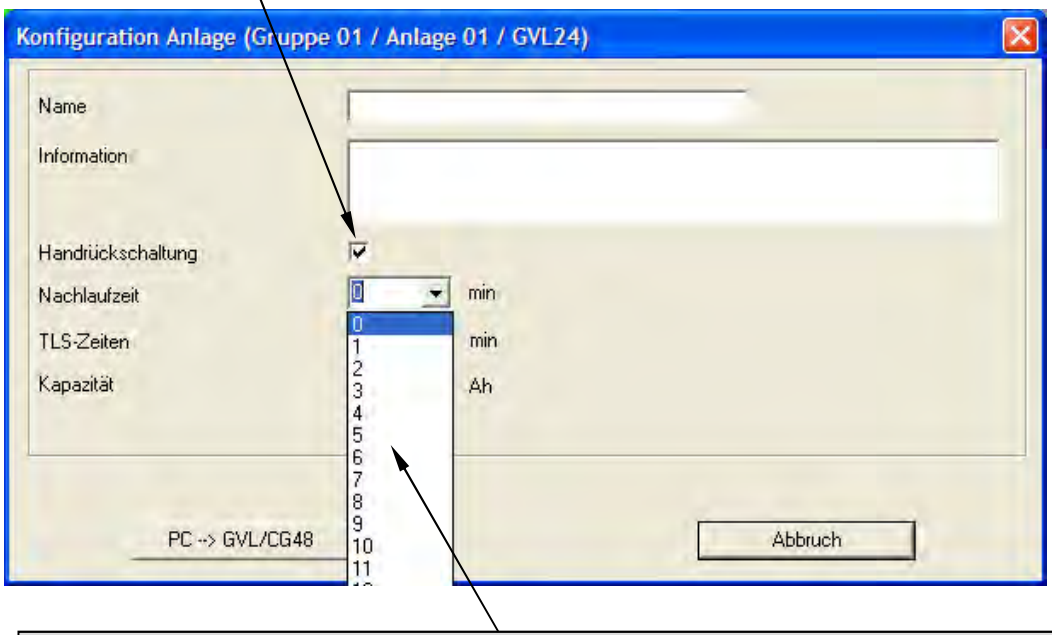
Entry of device name (max. 20 characters) and supplementary information (max. 100 characters)



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

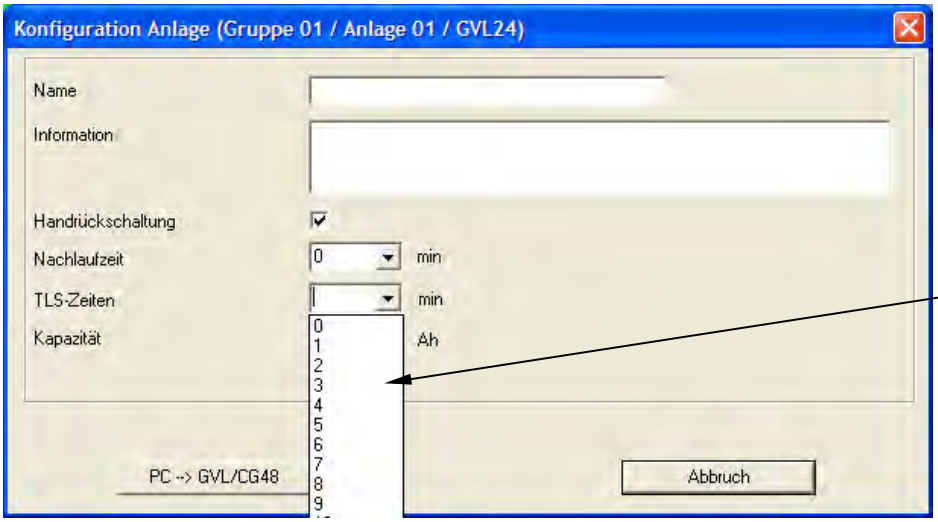
h. 'Configuration of system' (device)
b). Manual resetting and emergency light delay period

Activate/deactivate manual resetting

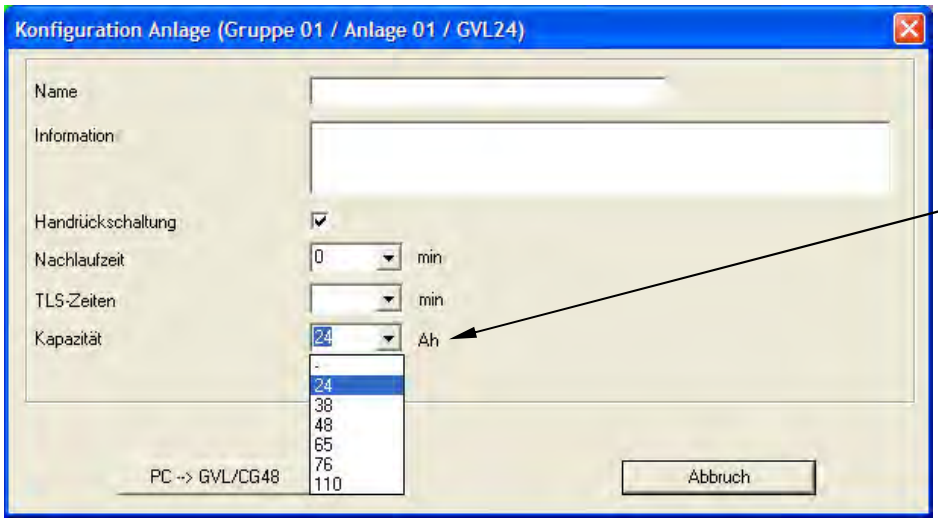


Drop-down menu for entering the emergency light delay period from 1 to 15 minutes

h. 'Configuration of system' (device)
c). TLS times and battery capacity



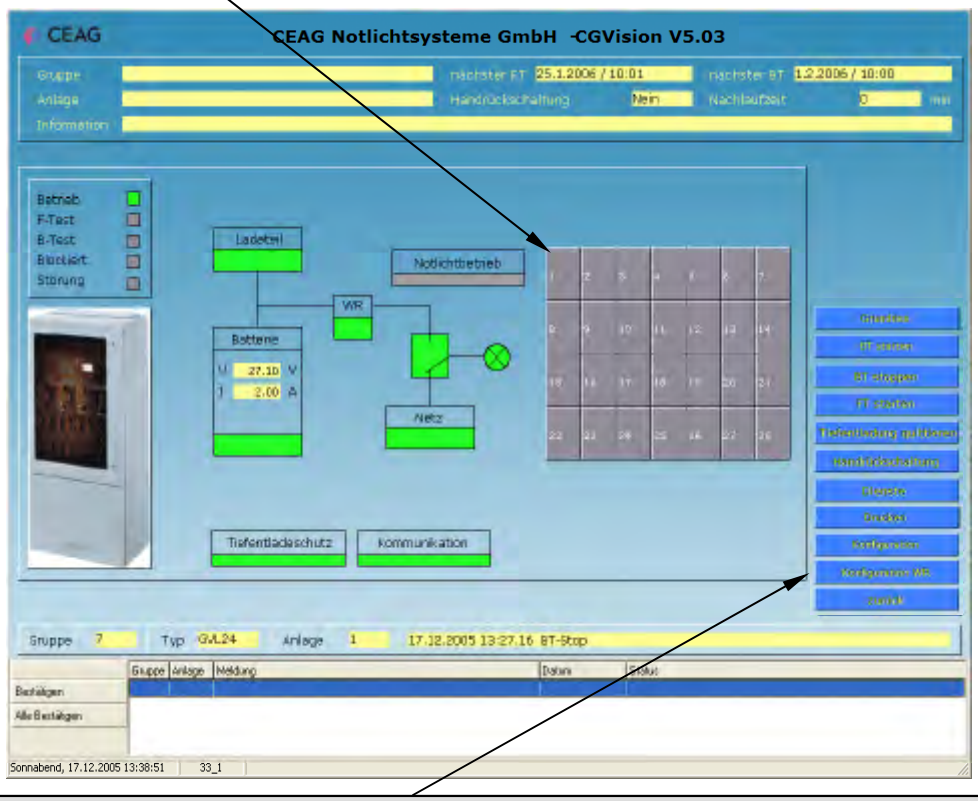
With installed TLS module, from 1 to 15 minutes can be selected via the 'TLS times' drop-down menu.



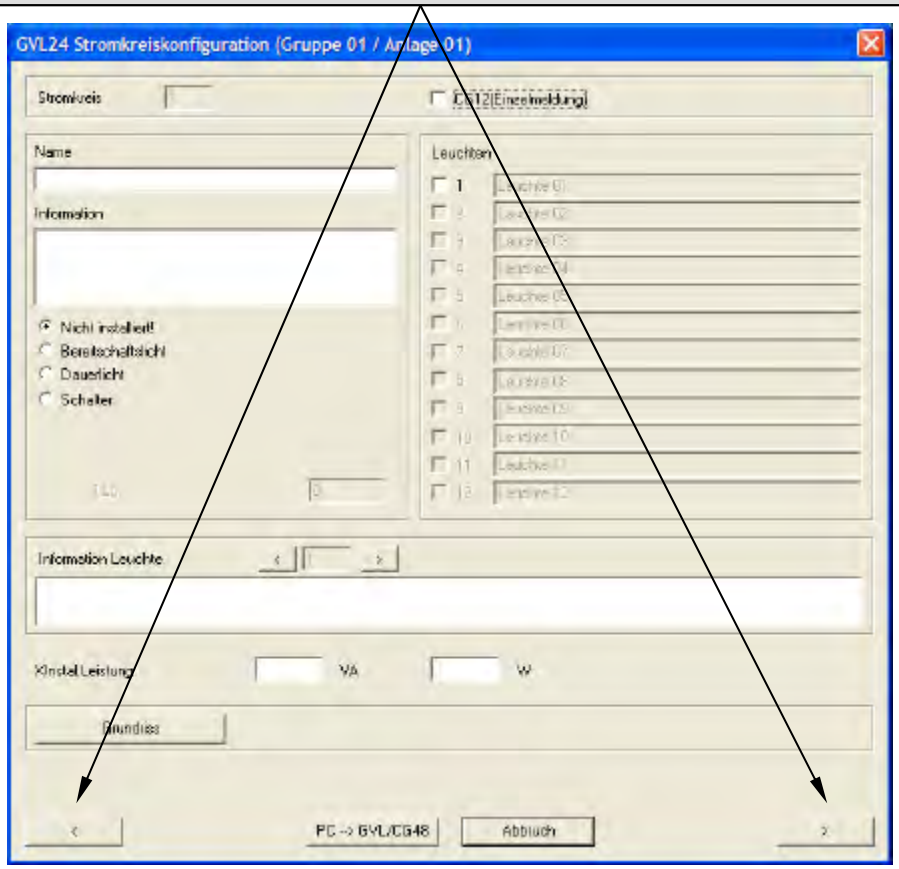
Battery capacity can be set from 24Ah to 110 Ah via the 'Capacity' menu.

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.



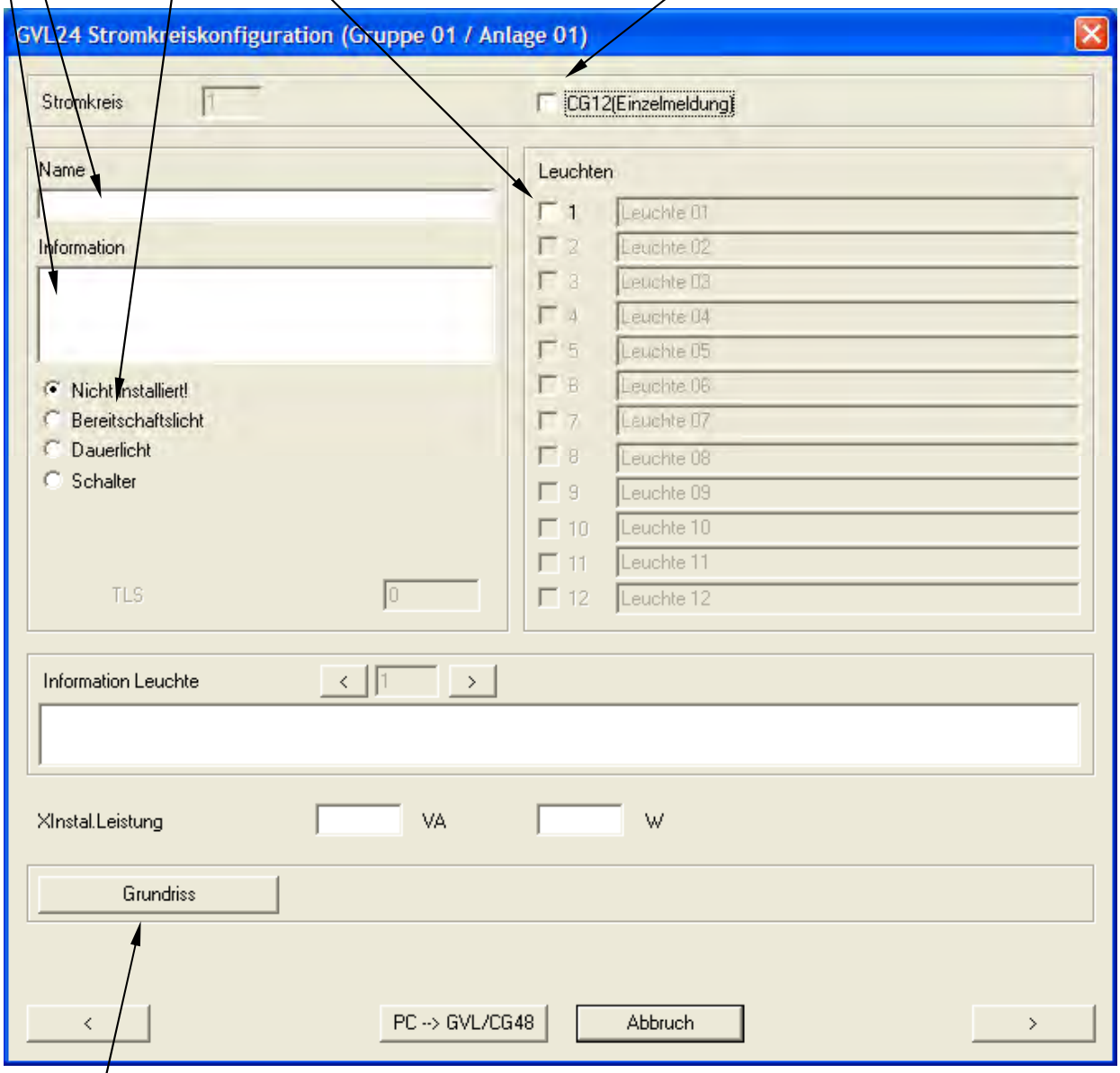
The circuit configuration is opened via the 'Configuration WR' button. Here converters or the CG12 monitoring can be installed.
The corresponding modules (circuits) can be selected via arrow left / right.



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)

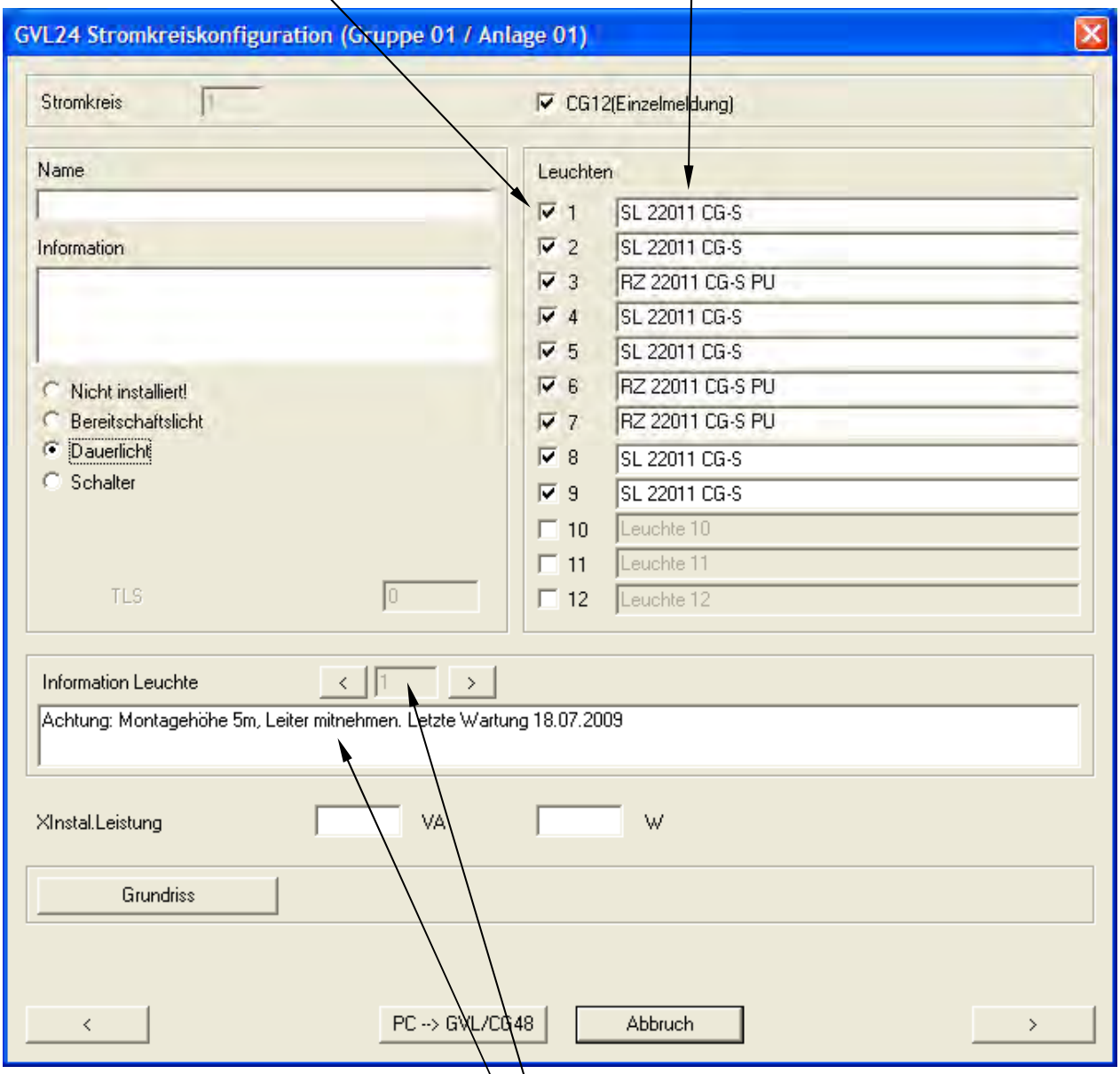


To the layout programming of the circuit (option must be released)

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.



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.

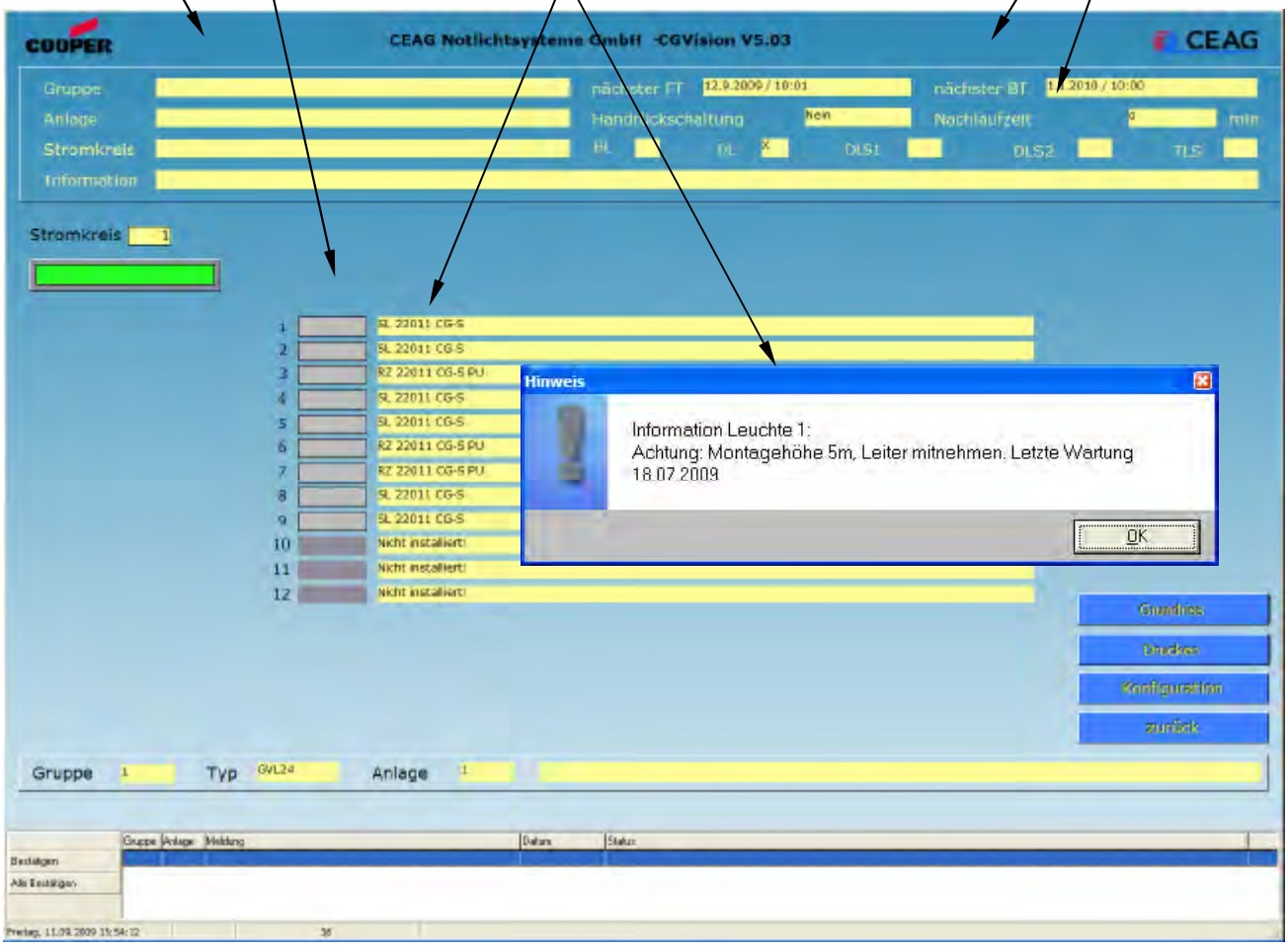
7.6 Circuit screen

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

Display of next FT/BT and extended circuit information, e.g. in BL (standby light), DL (maintained light), DLS (switch query) or TLS (stairway light query)

Installed luminaires on the CG12 module

Up to 20 characters per luminaire can be read directly
Clicking on the luminaire text opens a window with up to 100 characters of supplementary information

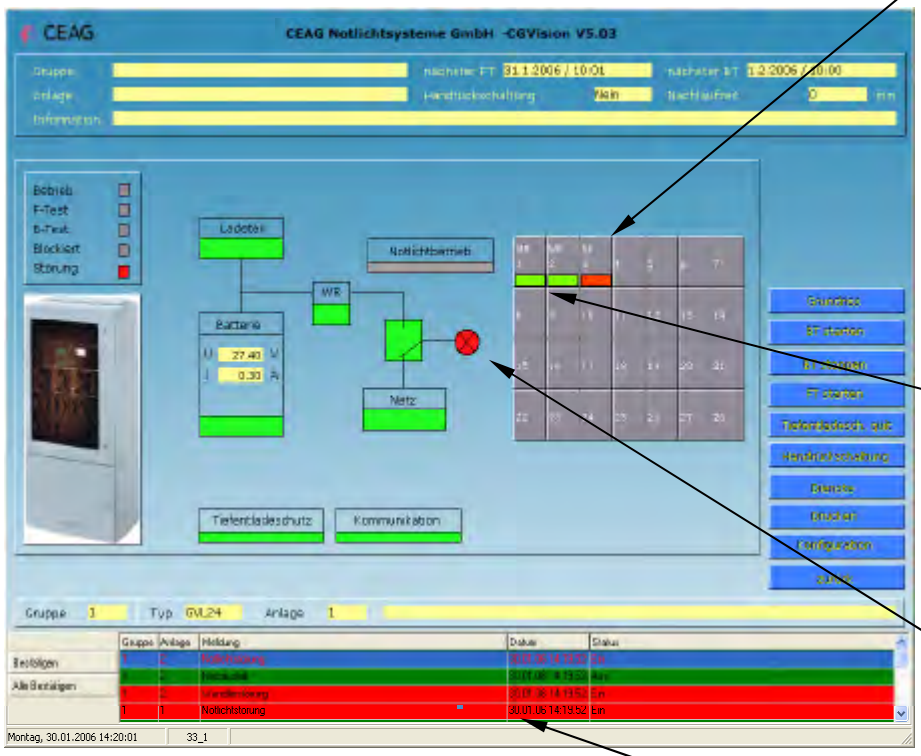


7.7 General display options

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 in circuit No. 3 (red)

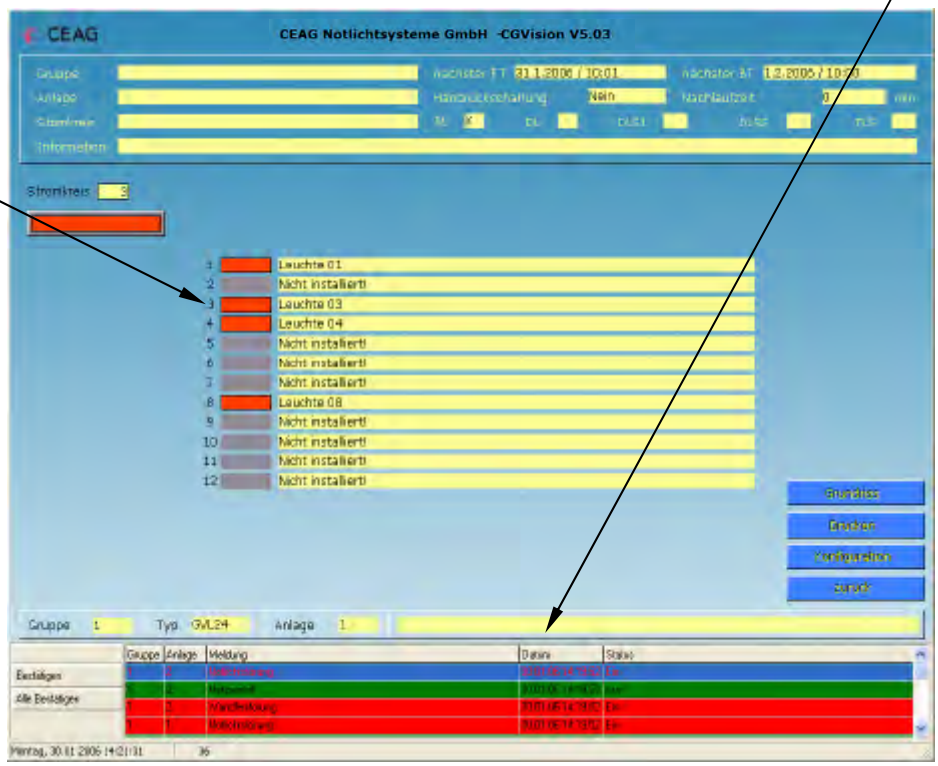


Circuits 1 and 2 OK (green)

Luminaire fault (red)

Fault display in plain text in alarm list (red)

Circuit No.1: faulty. Luminaires are **ALL** displayed as faulty (red). **The individual luminaire faults can only be read out at the CG12 module on the GVL device!**



Notices:

Notices:

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-Technical alterations without notice!-

CEAG Notlichtsysteme GmbH

Senator-Schwartz-Ring 26
D-59494 Soest
Telefon + 49 2921 / 69-870
Telefax + 49 2921 / 69-617
Internet http://www.ceag.de
E-Mail Info-n@ceag.de

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

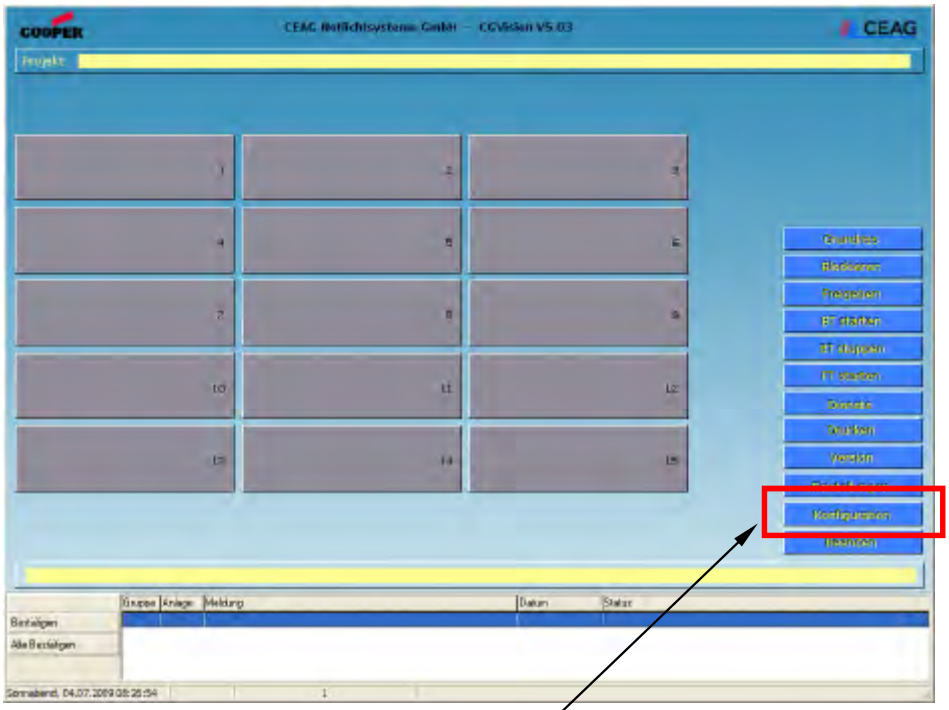
CEAG Notlichtsysteme GmbH

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

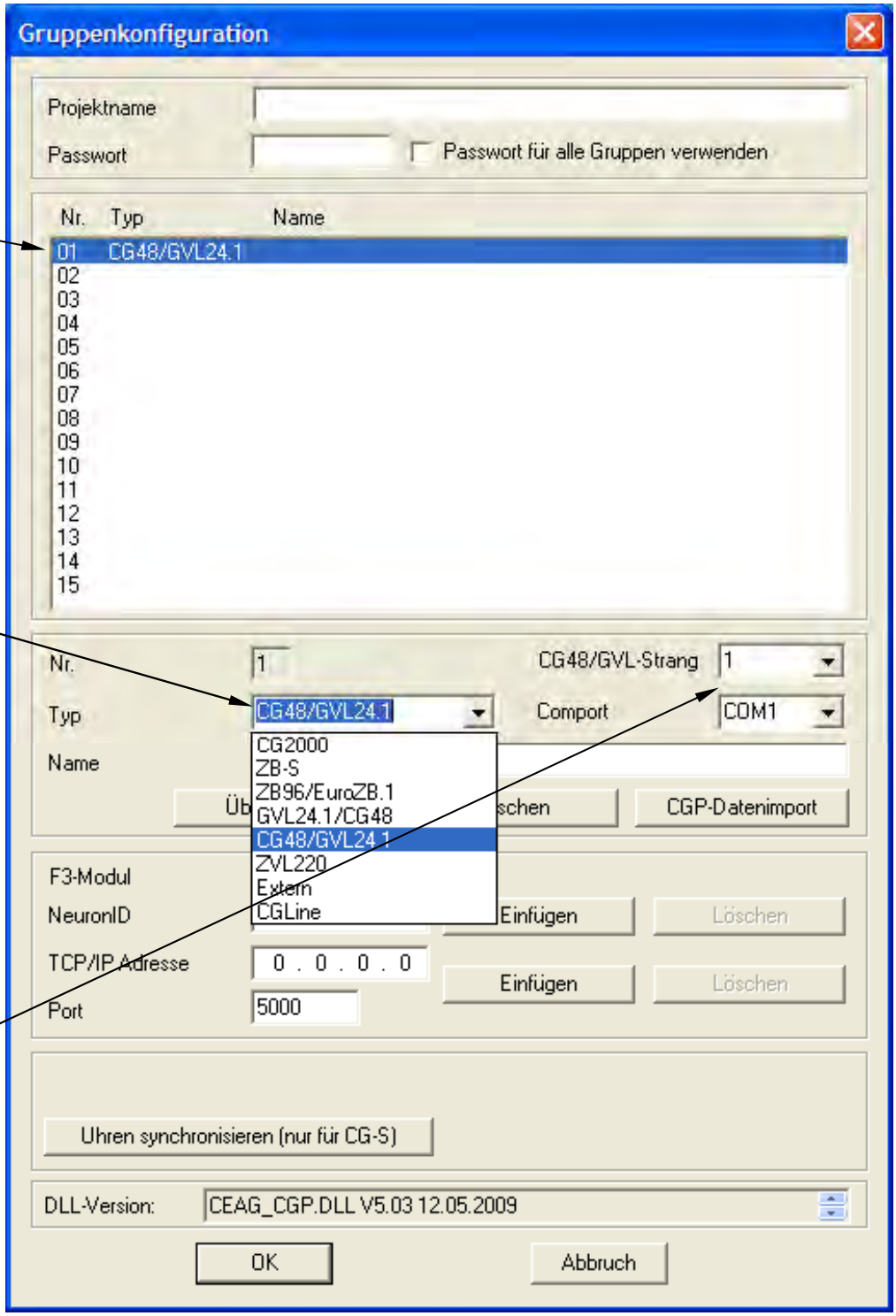
The group configuration menu then appears:

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

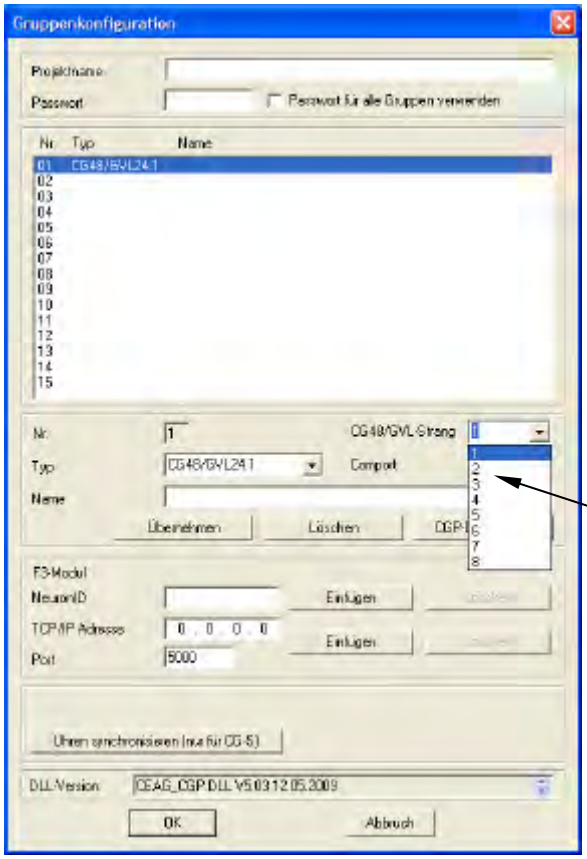
b) In the 'Type' drop-down menu the system type 'CG48/GVL24.1' can be selected and a system group name can be assigned

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'.

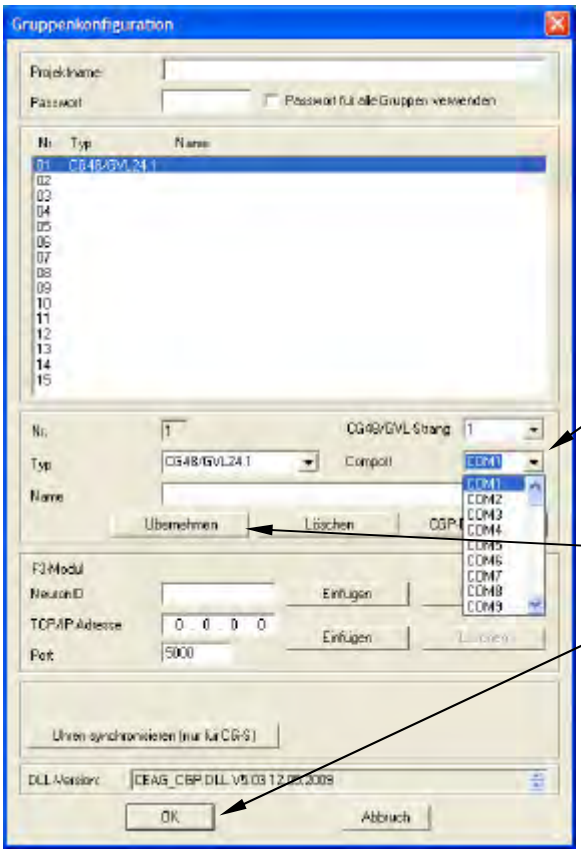
d) Confirm with 'Accept', define further groups or exit with 'OK'



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.

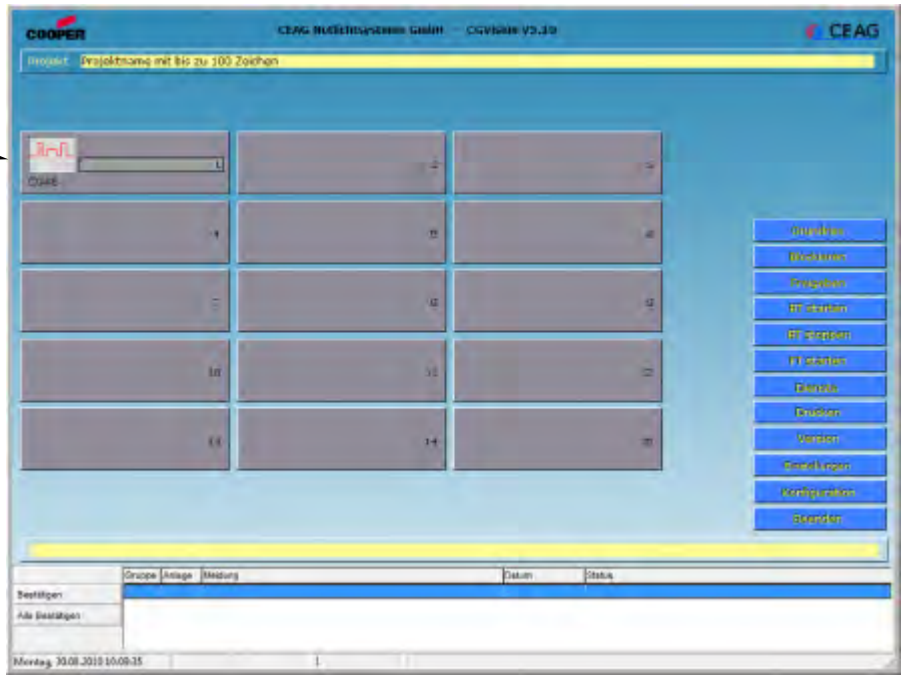


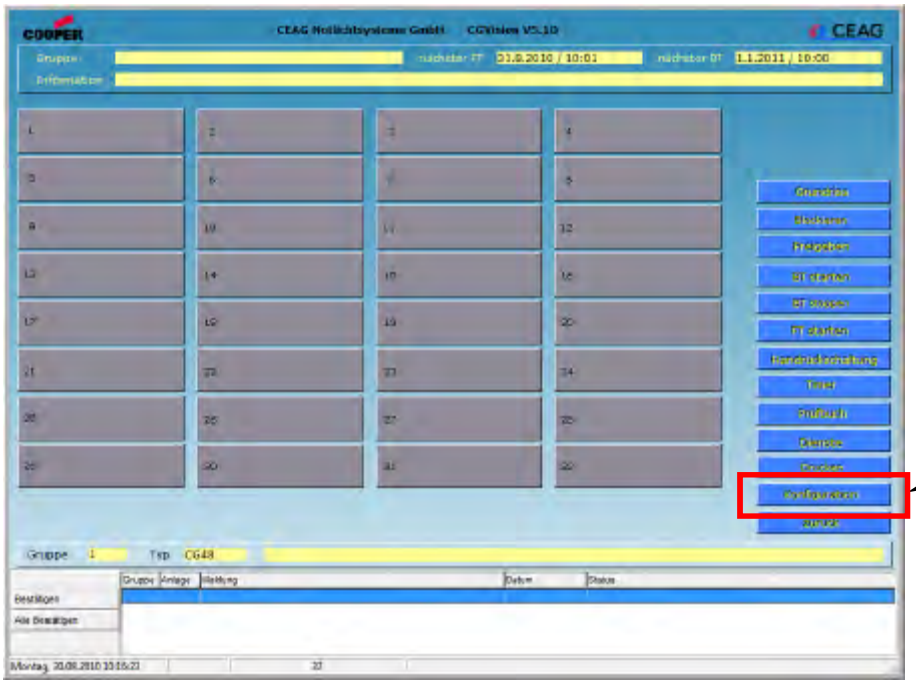
Assigning the COM port:
after entering the EGA line this can be assigned to a COM port (1 to 255) via the drop-down menu.

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:

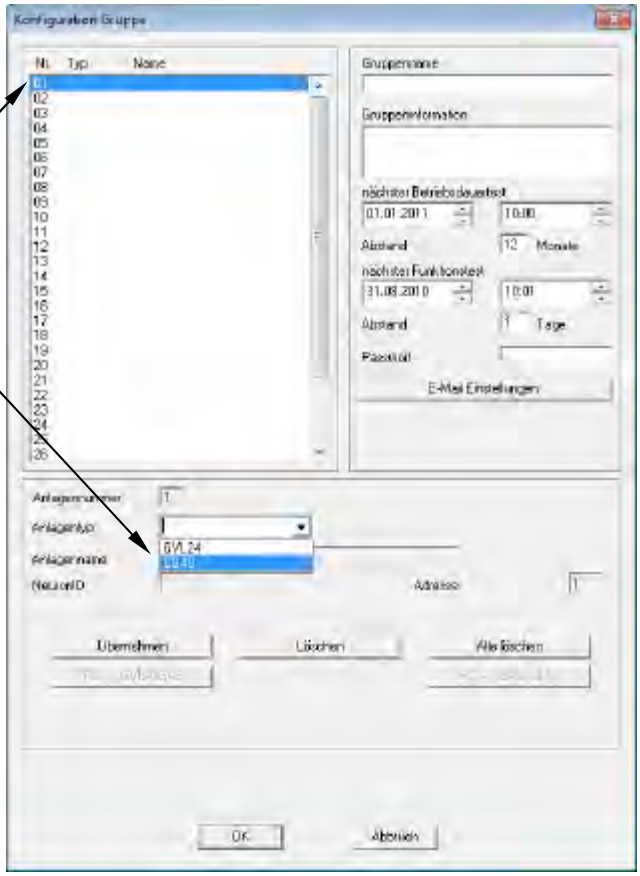
After restarting, the CG48 device group is displayed in the main group screen. If the CG48 device group is clicked on the system group screen is then displayed.



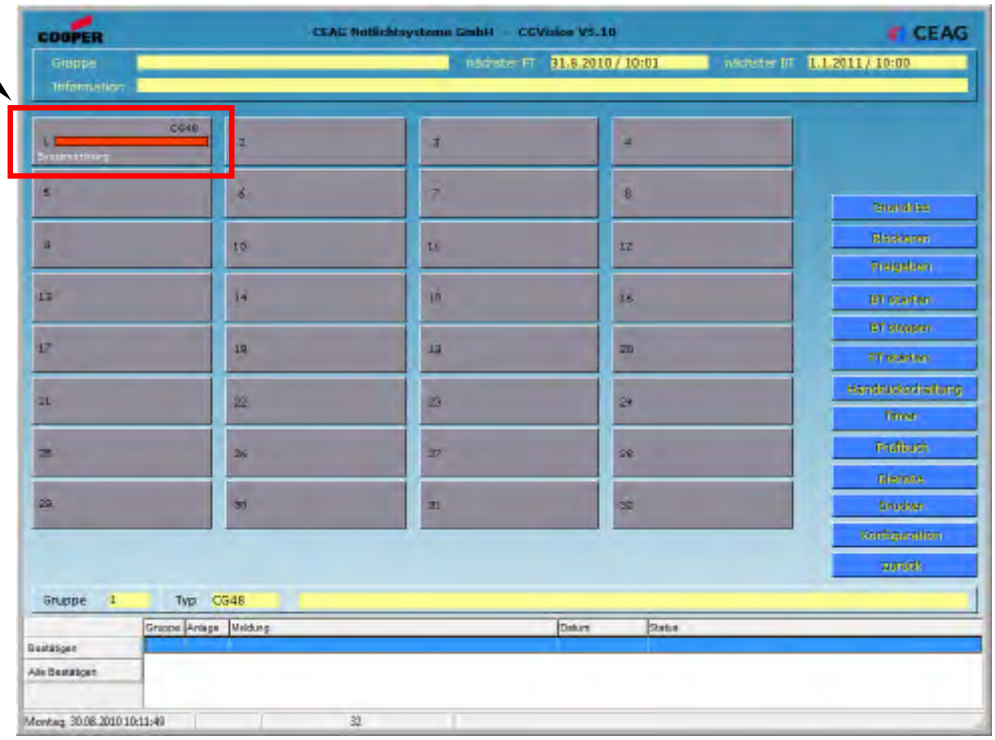


Now CG48 devices can be added to this group via 'Configuration'.

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.

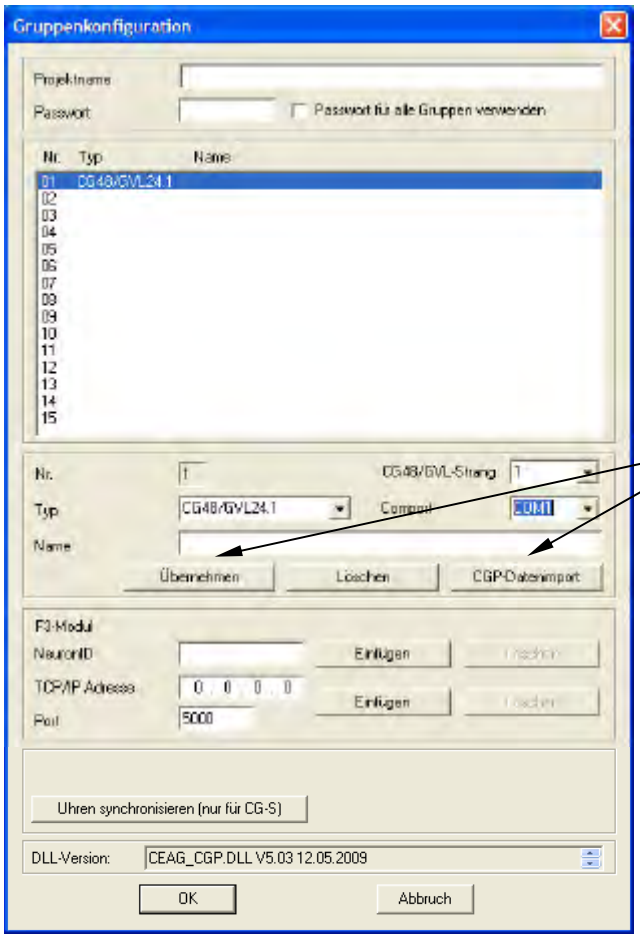


After restarting, all installed CG48 are shown in the main group screen with their system status. Clicking on the button directly displays the device screen.

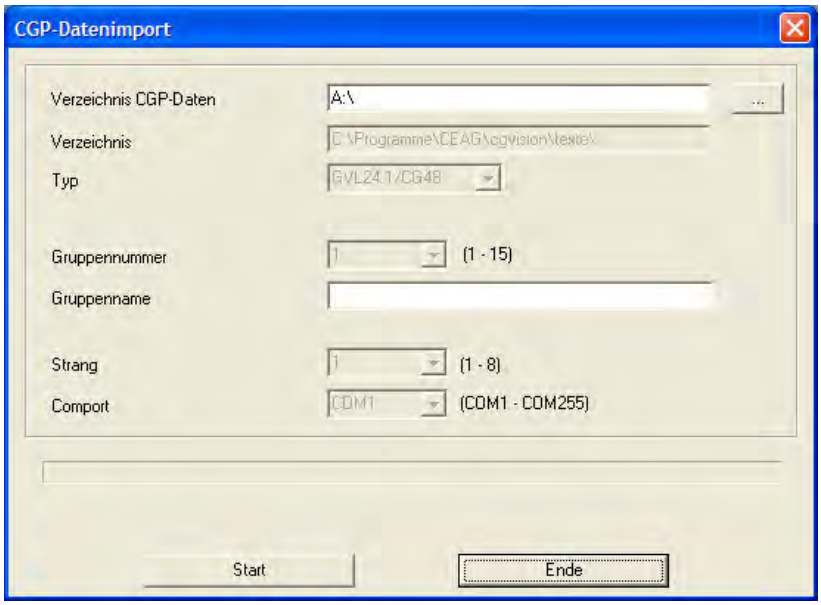


8.2 CGP data import – CG48 / GVL 24.1

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.



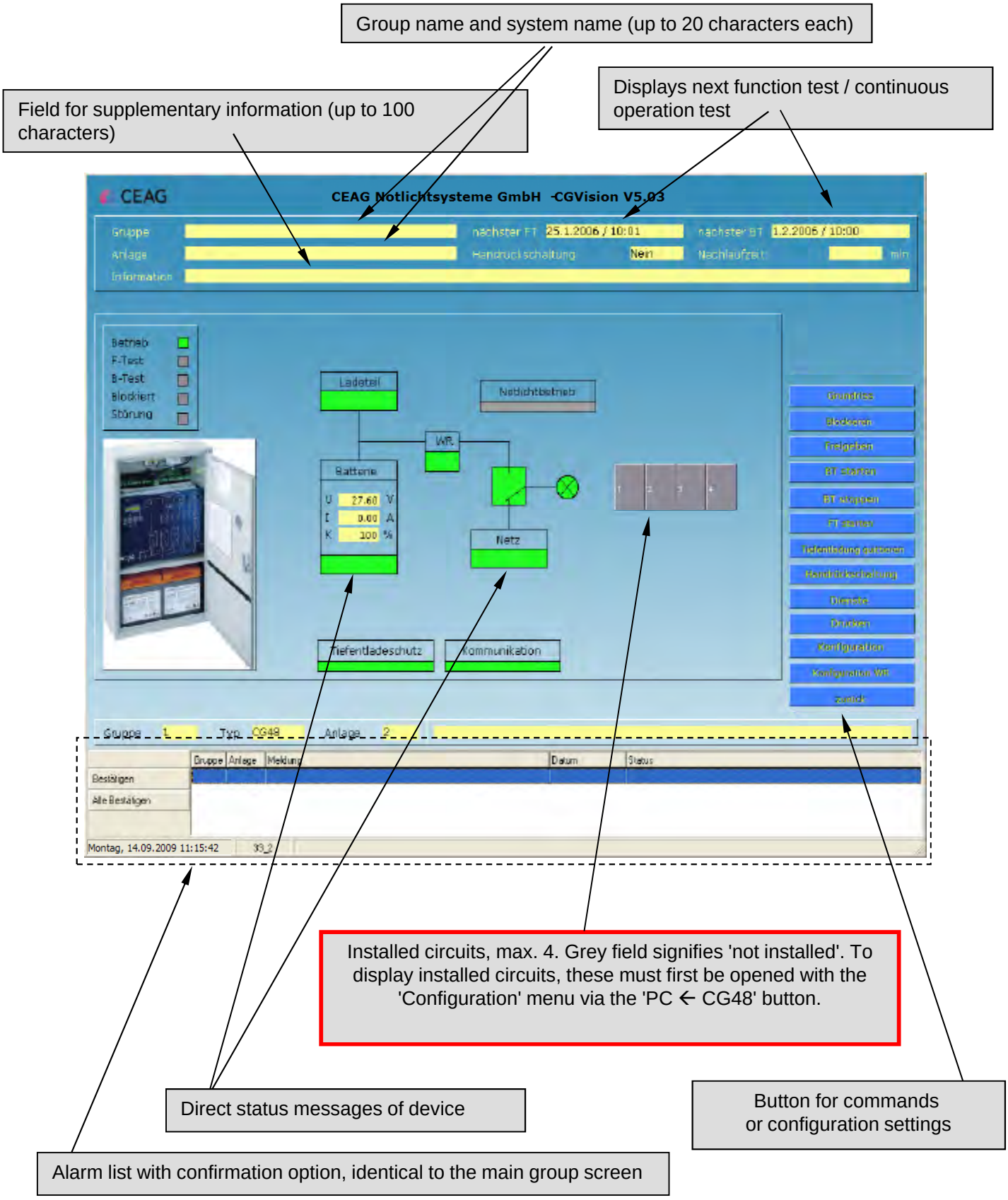
Before a CGP data import, the line and the COM port need to be specified. This must be confirmed with 'Accept'.
CGP data import is started via the 'CGP data import' button.



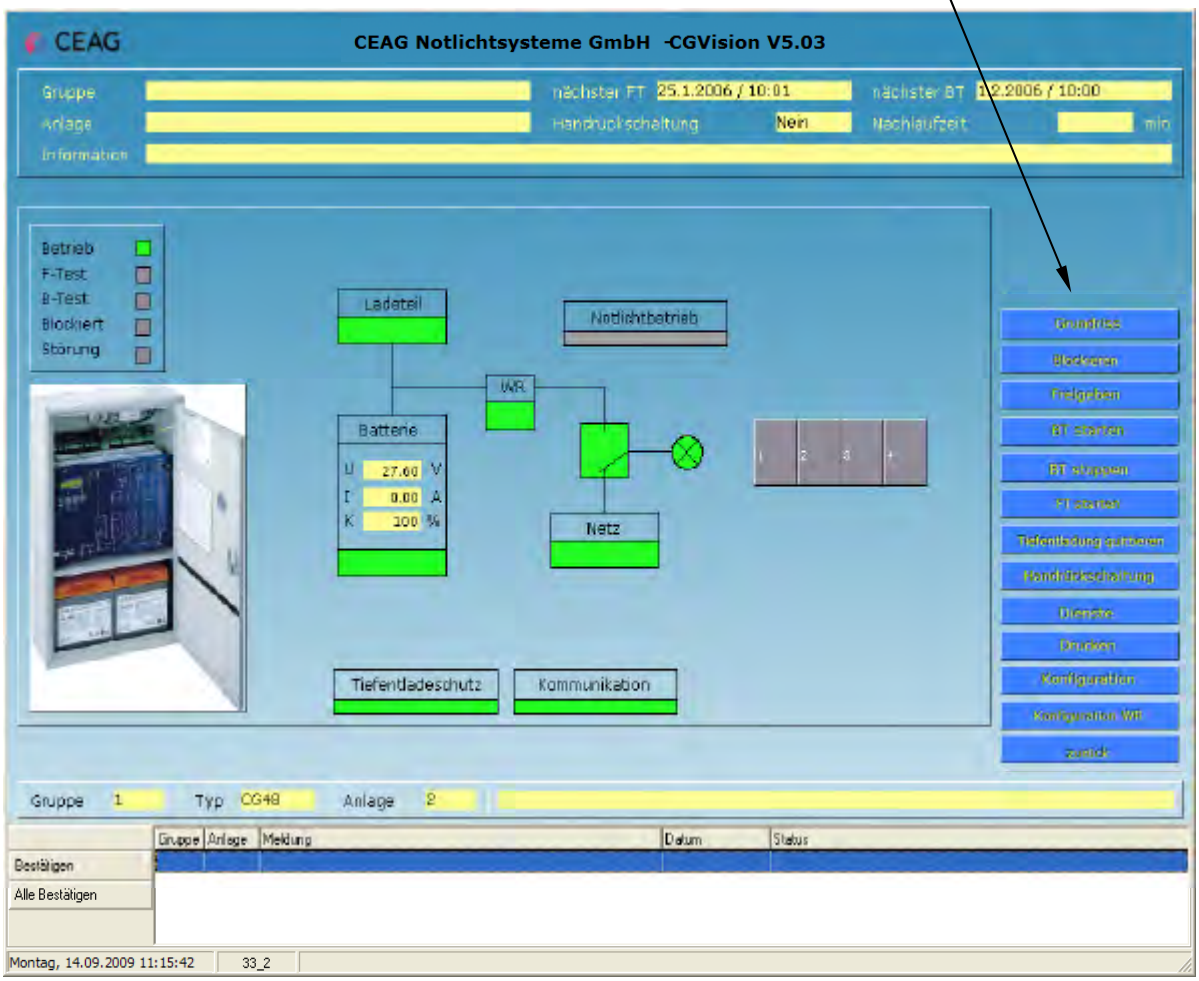
The following window opens. Here the folder for the CGP configuration data can be specified. Typically as the default source the disk drive A: is specified, used as standard with the CGP for data backups. The CGP data import is triggered with 'Start'. Please follow the following dialog boxes and information.

8.3 Device screen – CG48

8.3.1 Structure of the device screen:



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

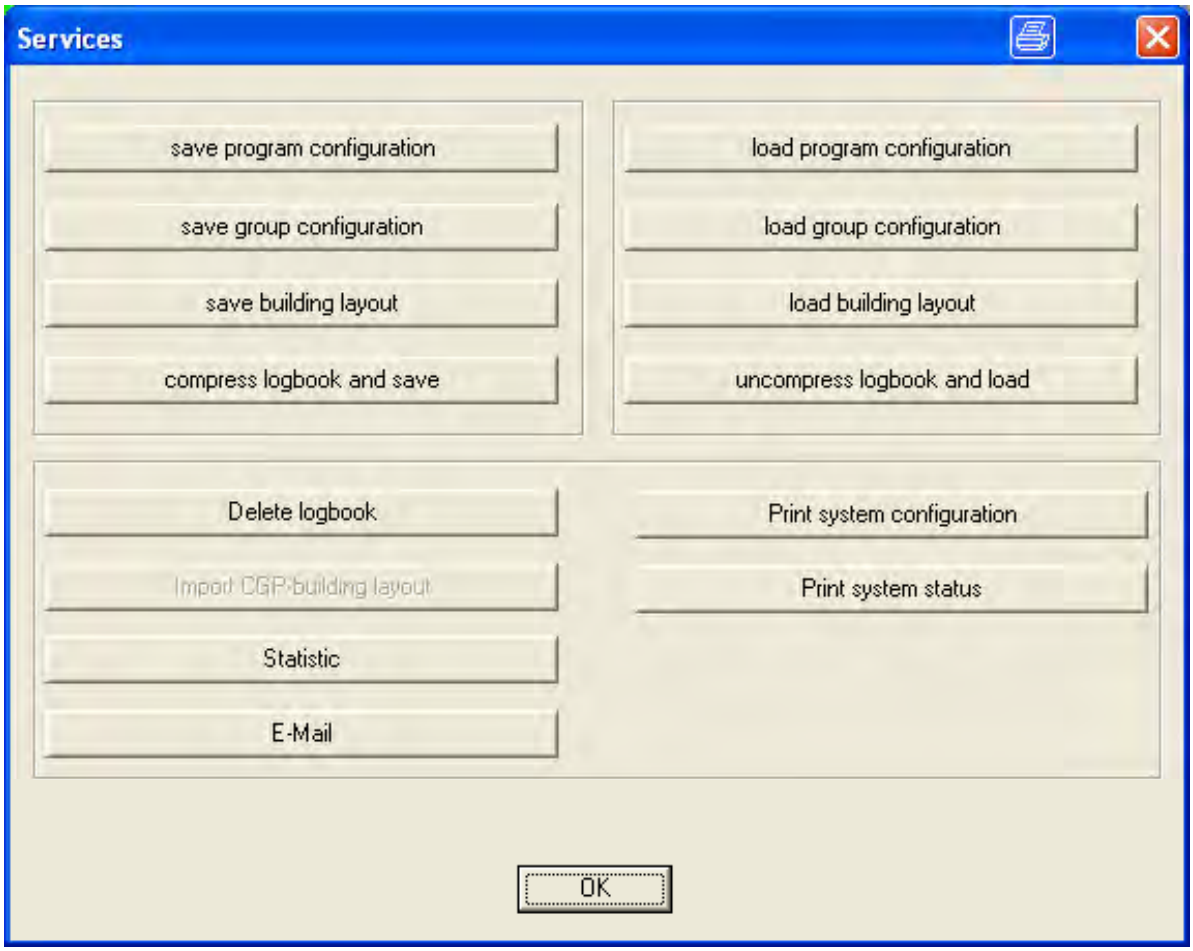
j). 'Configuration WR'
Configuration settings for converter modules

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

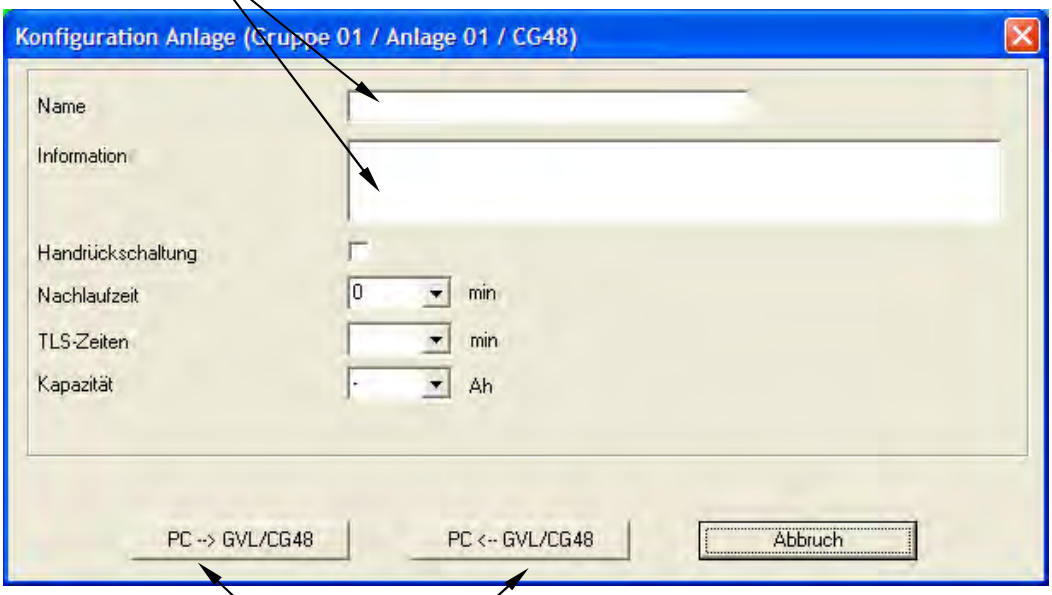
i). 'Services'
Various services for the inspection book and for configuration



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

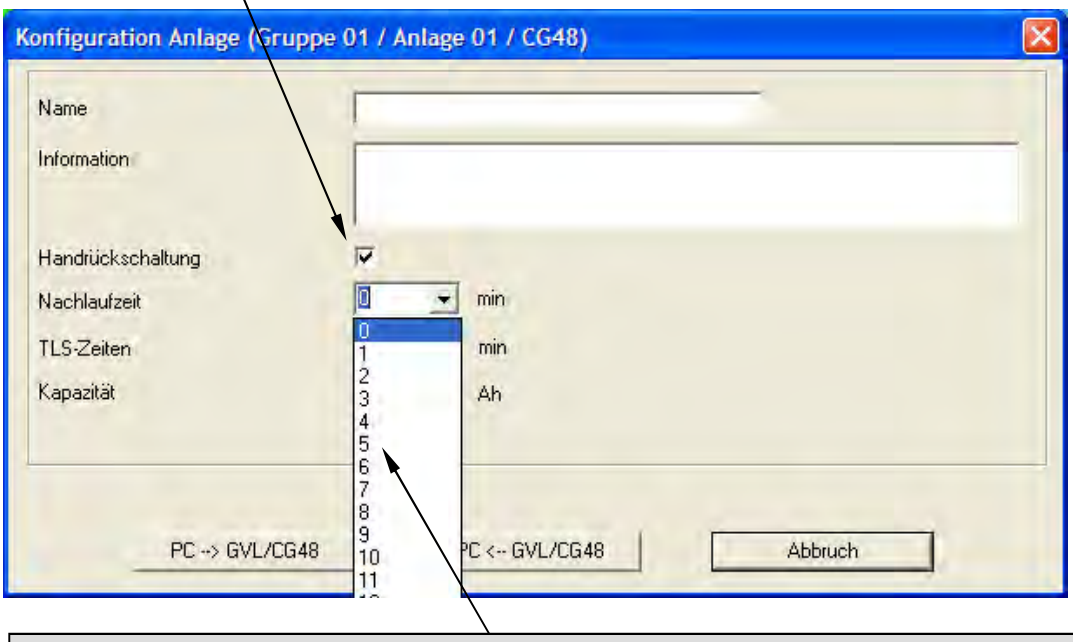
Entry of device name (max. 20 characters) and supplementary information (max. 100 characters)



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.

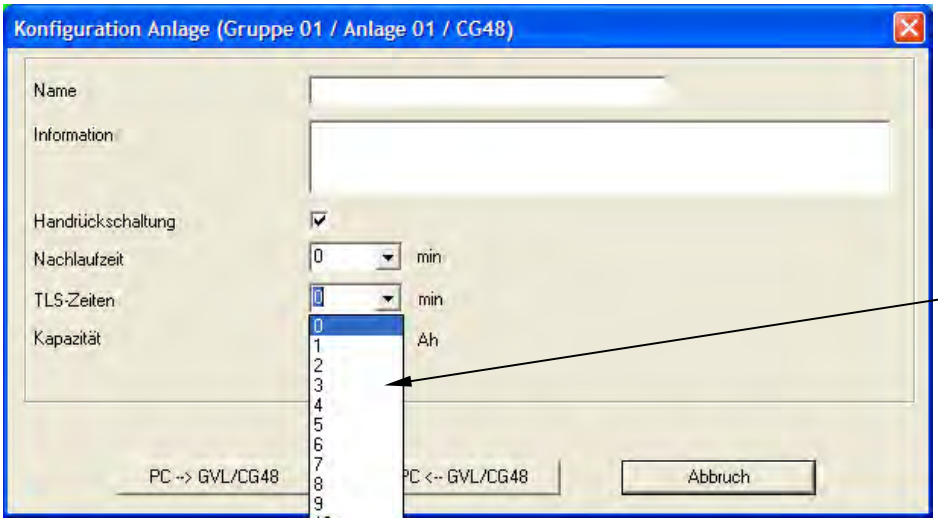
k. 'Configuration of system' (device)
b). Manual resetting and emergency light delay period

Activate/deactivate manual resetting

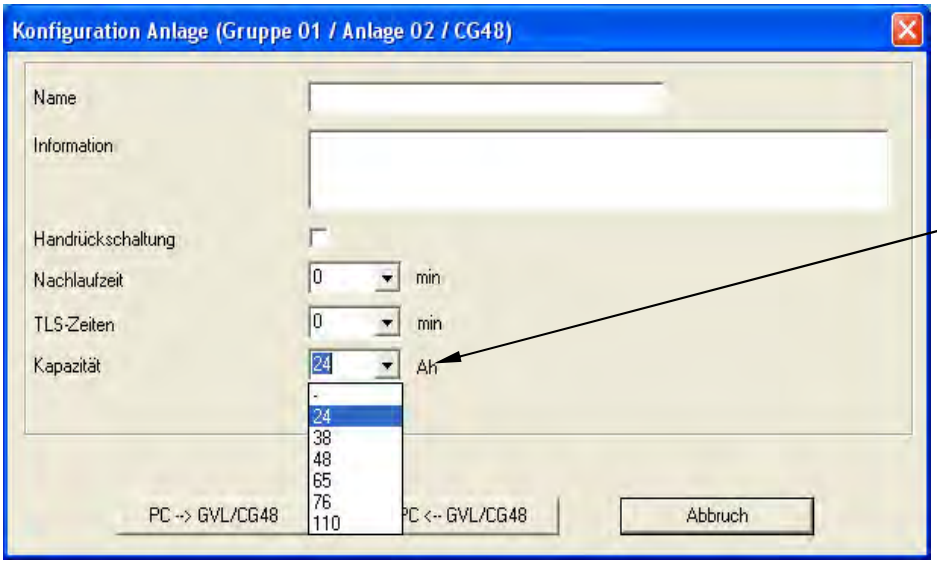


Drop-down menu for entering the emergency light delay period from 1 to 15 minutes

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



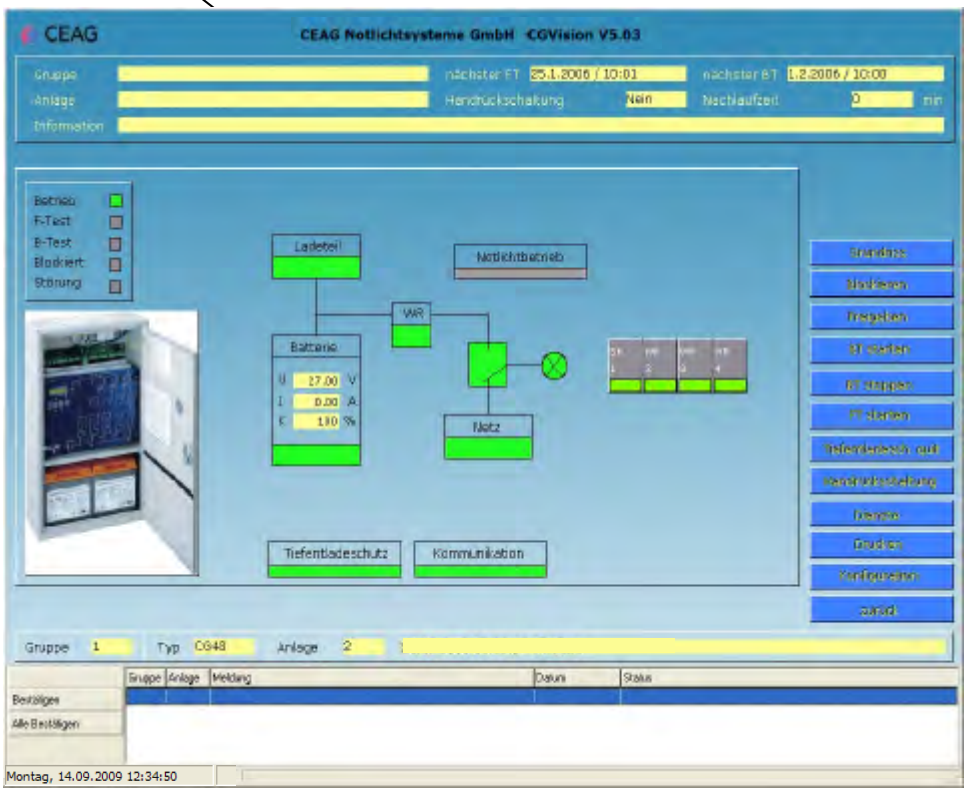
With installed TLS module, a time from 1 to 15 minutes can be selected via the 'TLS times' drop-down menu.



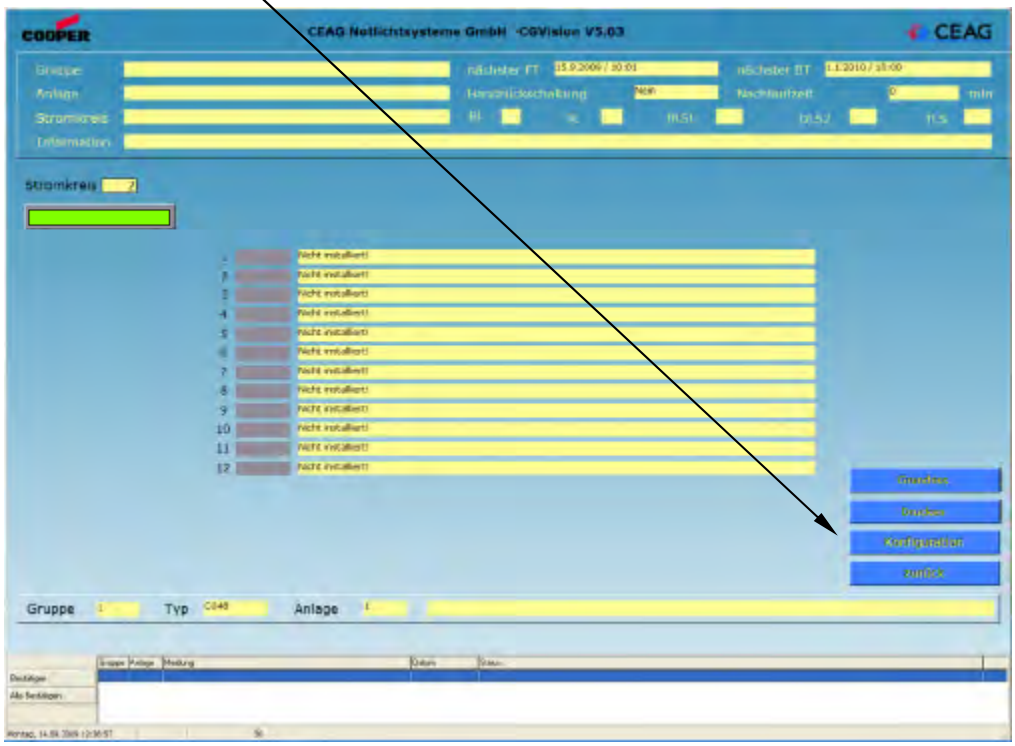
Battery capacity can be set from 24Ah to 110 Ah via the 'Capacity' menu.

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 corresonding circuits.



The circuit can now be configured and luminaires installed via the 'Configuration' button.

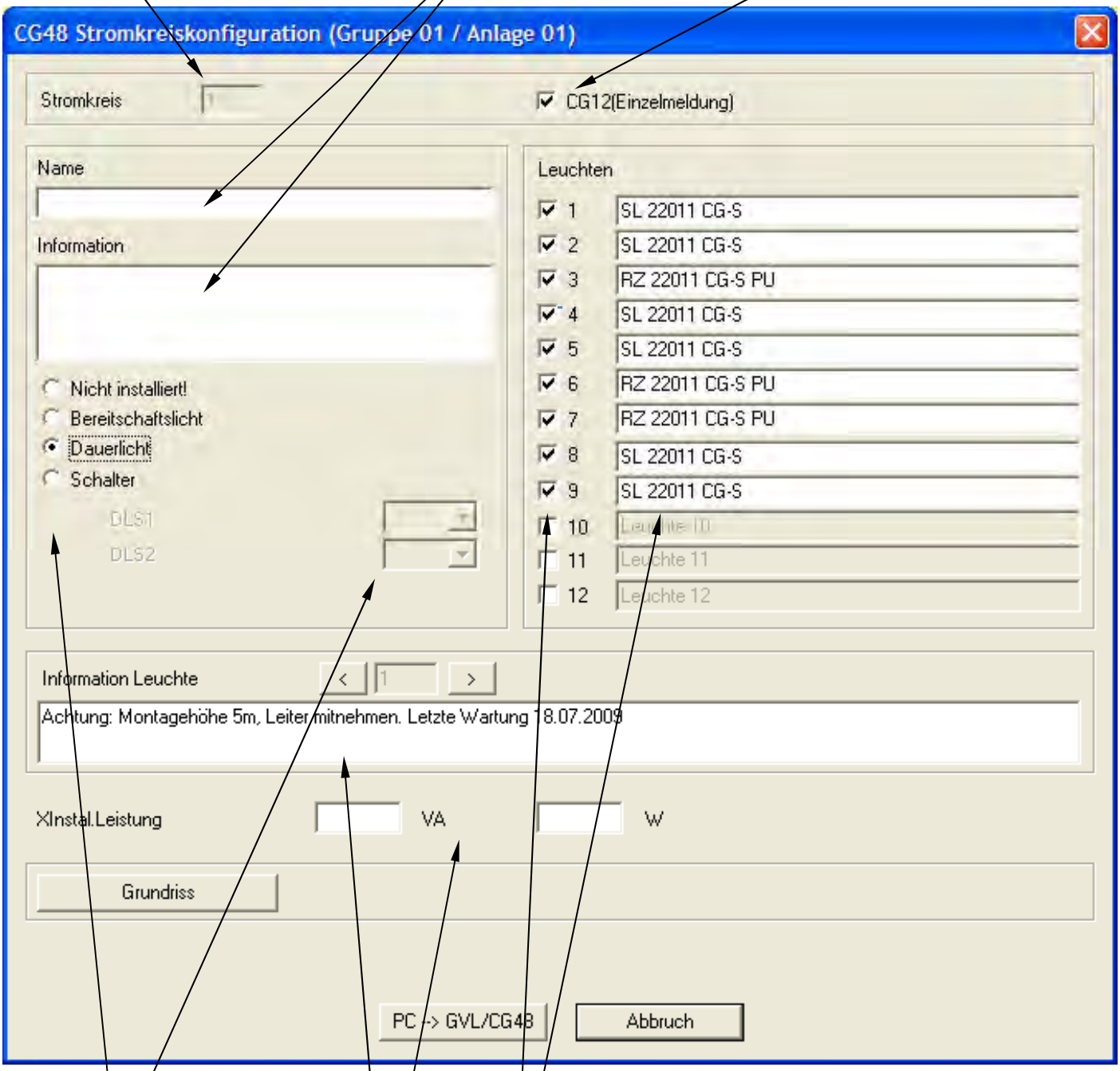


8.4.1 Circuit configuration

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

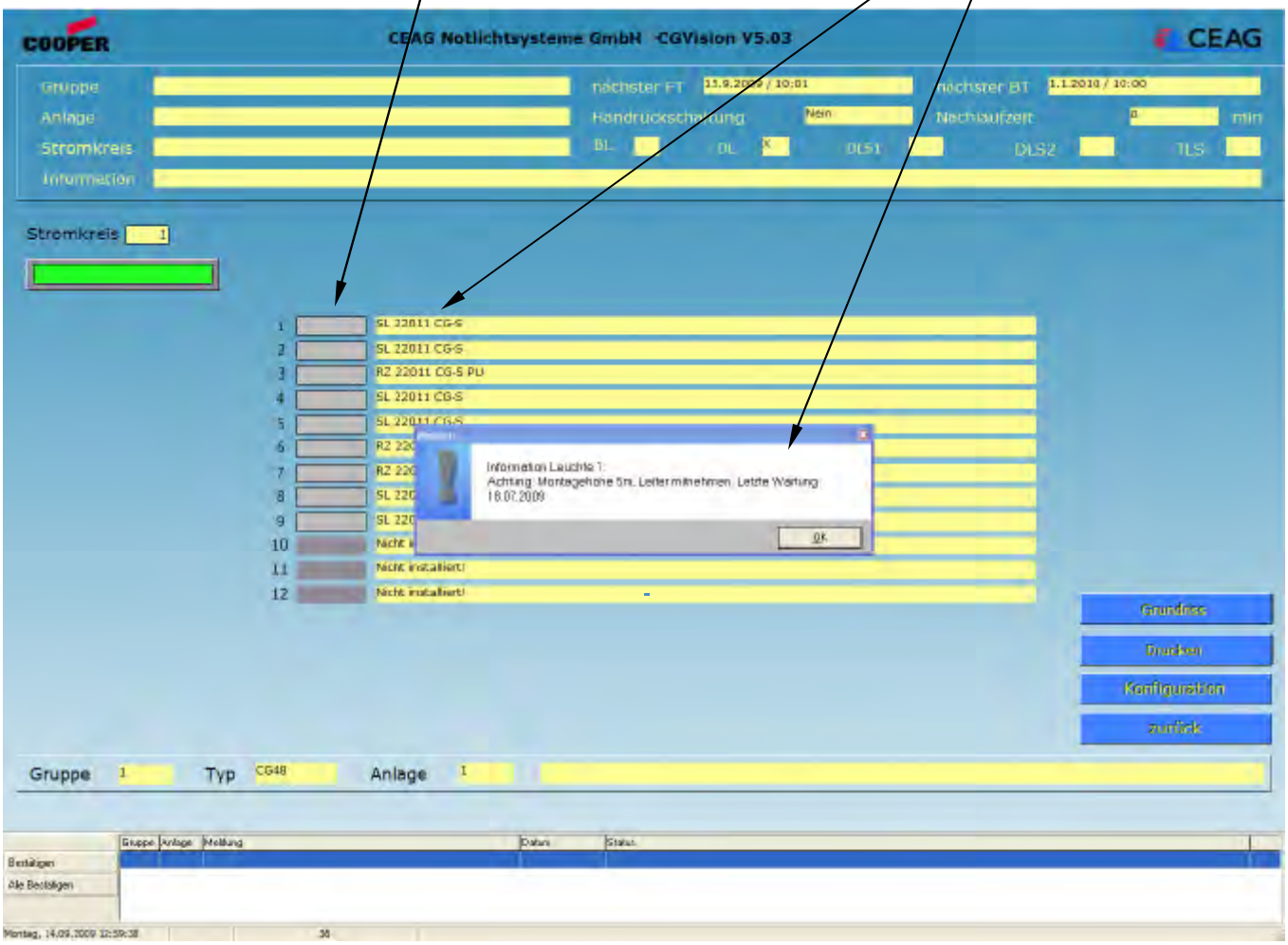
Adding/removing luminaires via checking of control boxes. After adding luminaires, luminaire texts in plain text, max. 40 characters can be entered

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).

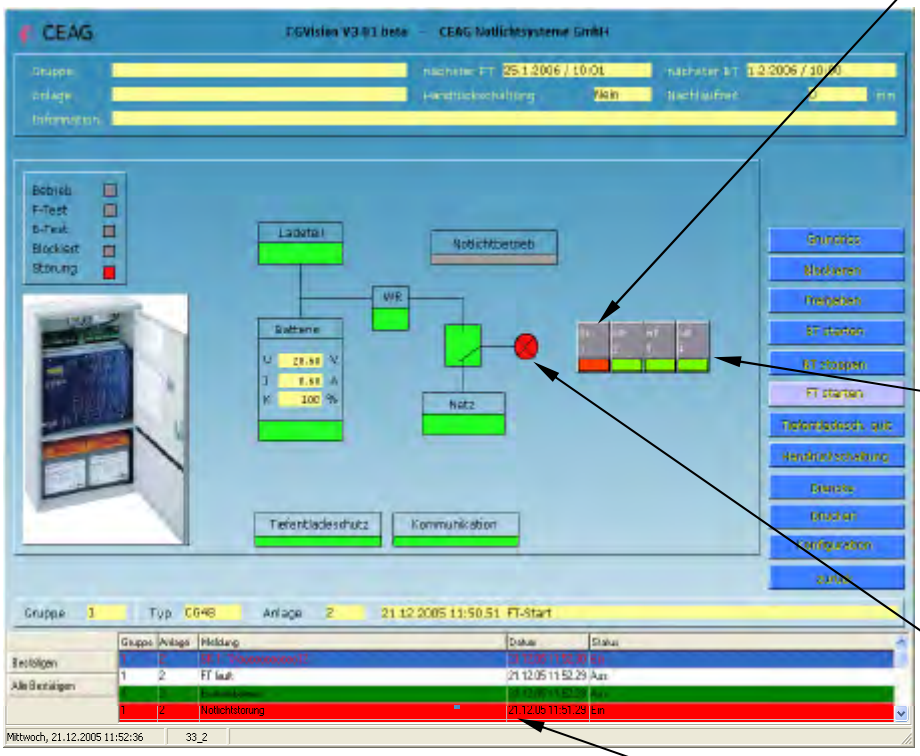


8.6 General display options

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:

Fault in circuit No. 1 (red)



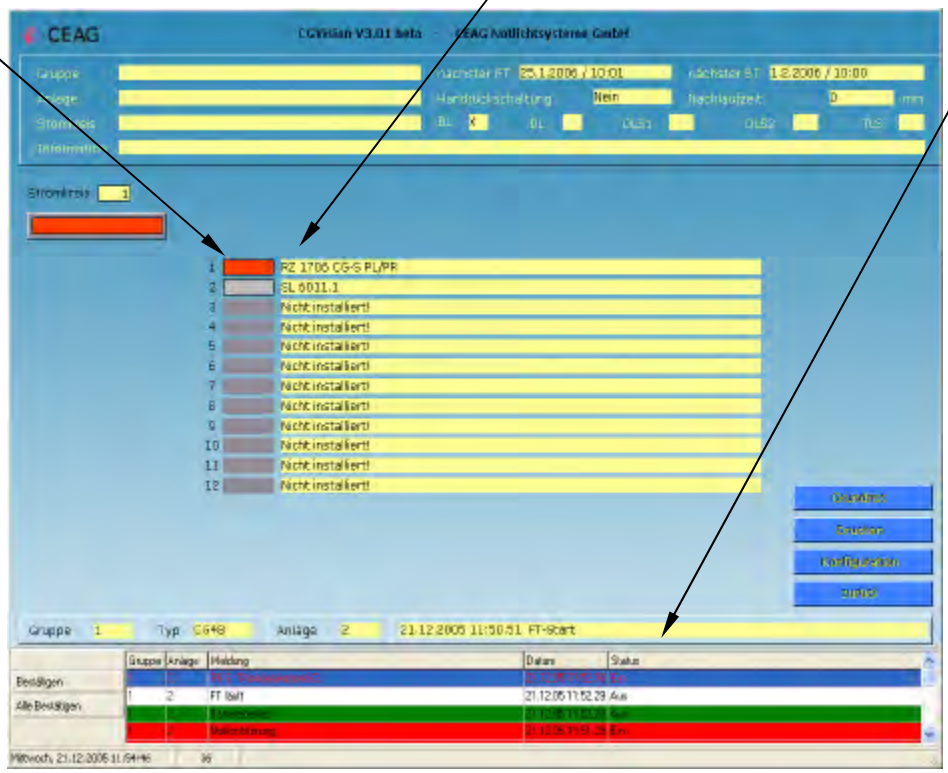
Circuits 2 to 4 OK (green)

Luminaire fault (red)

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:

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CEAG Notlichtsysteme GmbH

Senator-Schwartz-Ring 26
D-59494 Soest
Telefon + 49 2921 / 69-870
Telefax + 49 2921 / 69-617
Internet http://www.ceag.de
E-Mail Info-n@ceag.de

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

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Section 9
Device family CGLine

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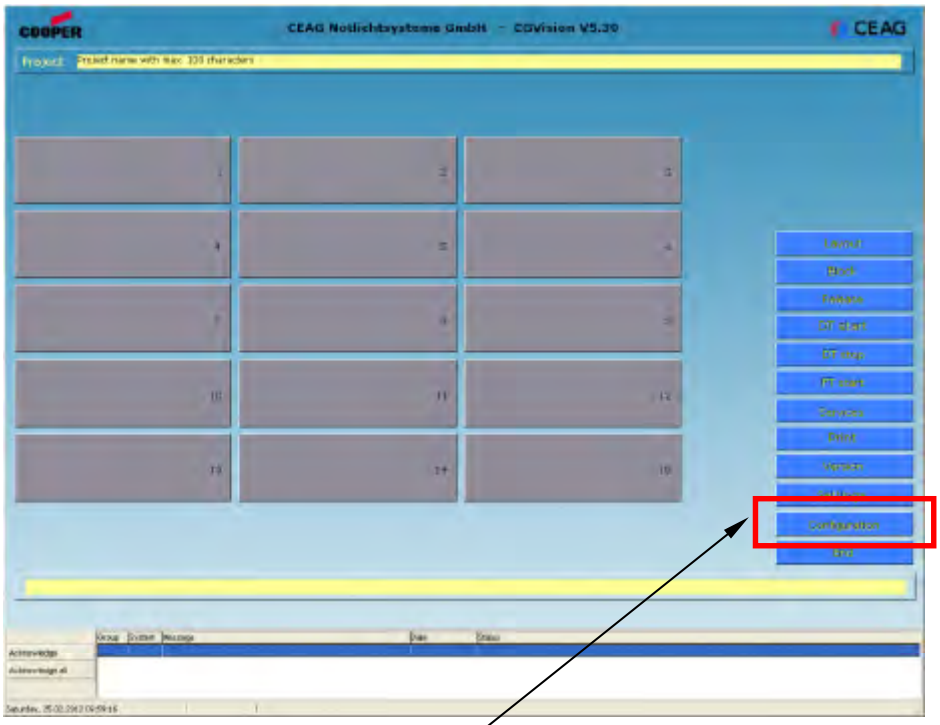
9 Device family CGLine

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.



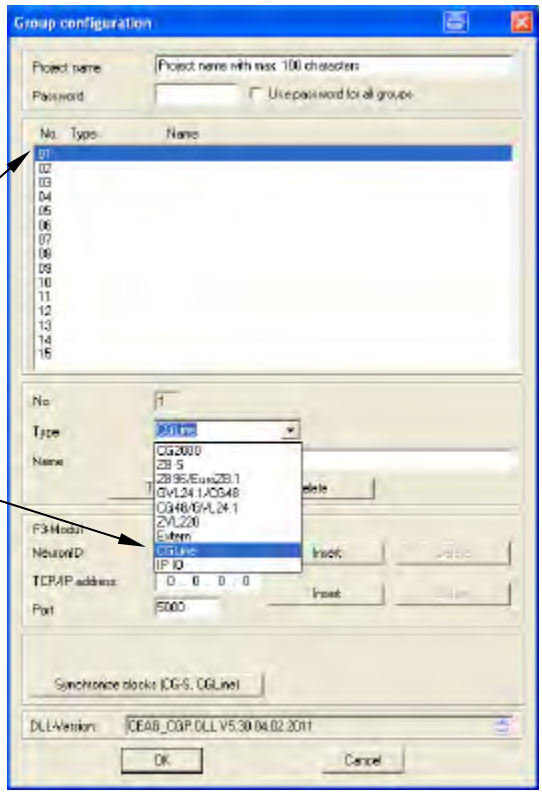
Via the 'Configuration' menu a new device family,
e.g. CGLine, can be created

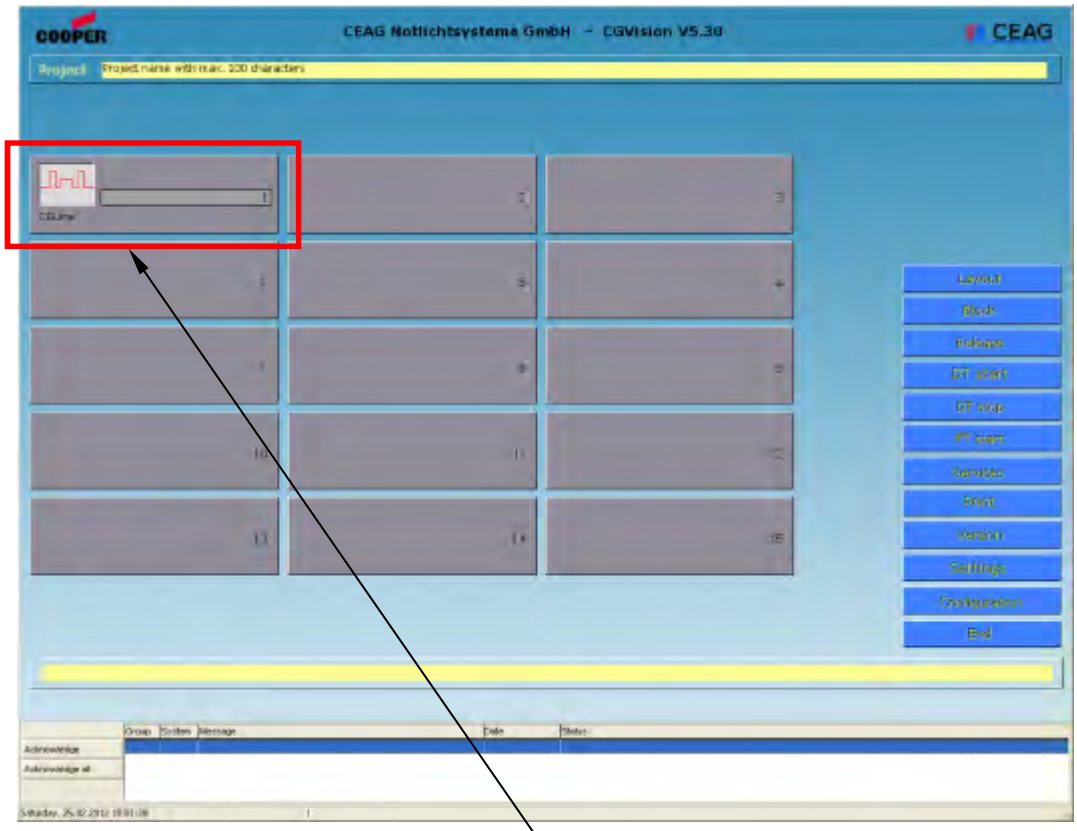
The group configuration menu then appears:

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

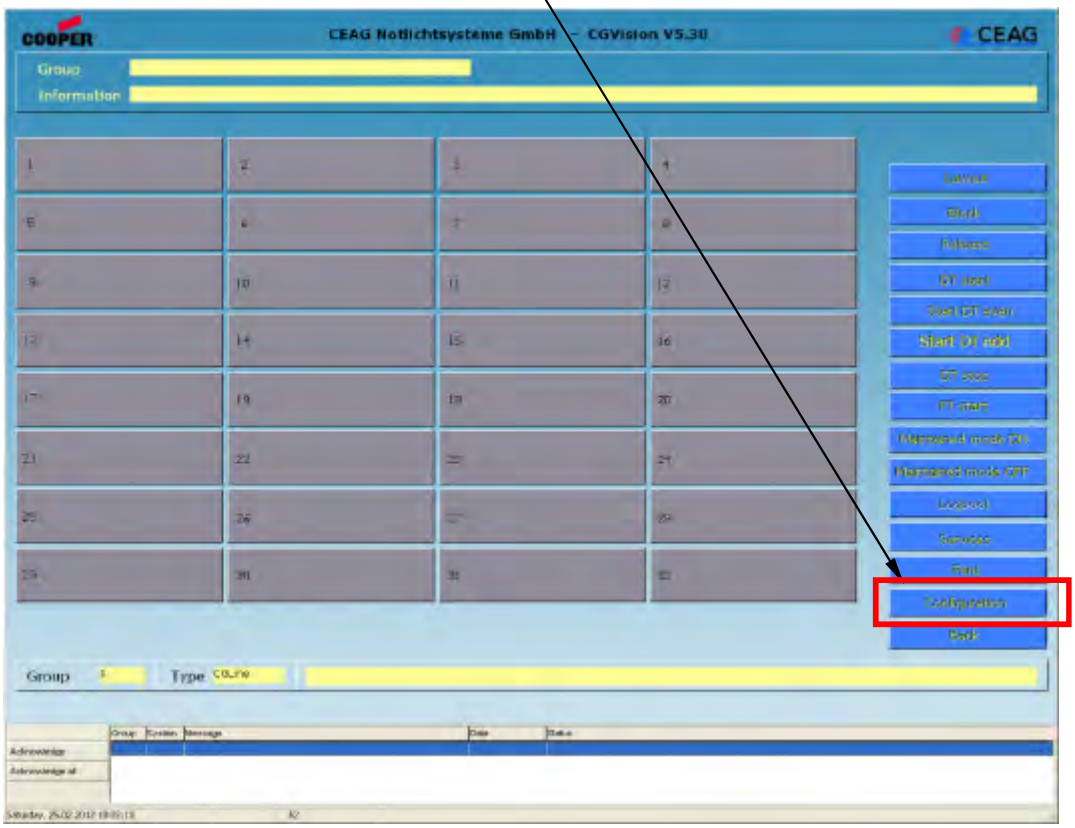
b) In the 'Type' drop-down menu
the system type 'CGLine'
can be selected and a system group name
can be assigned

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



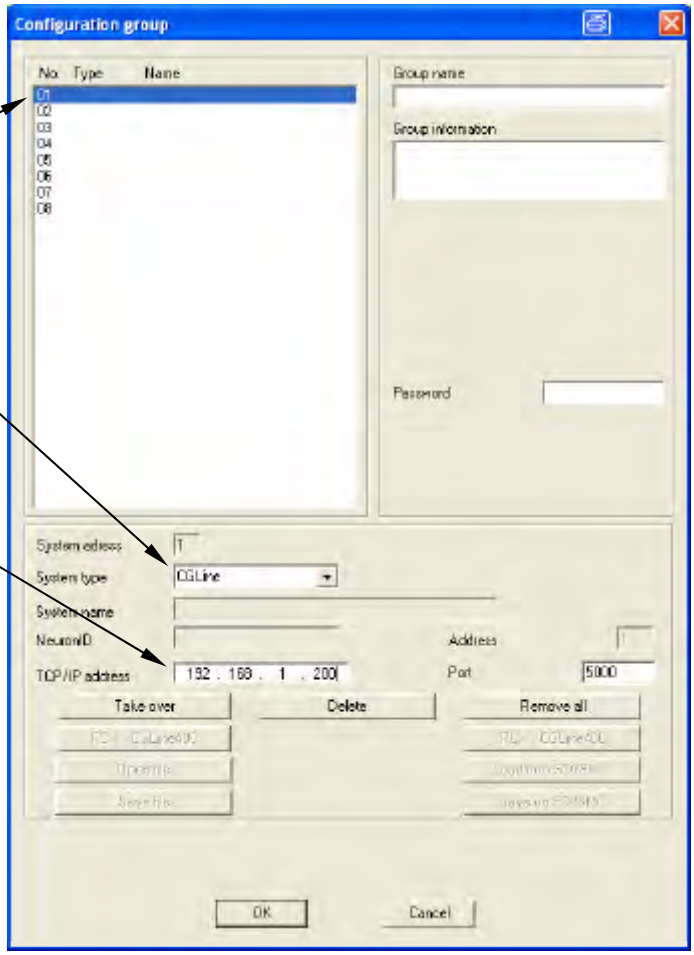
The system configuration menu then appears:

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

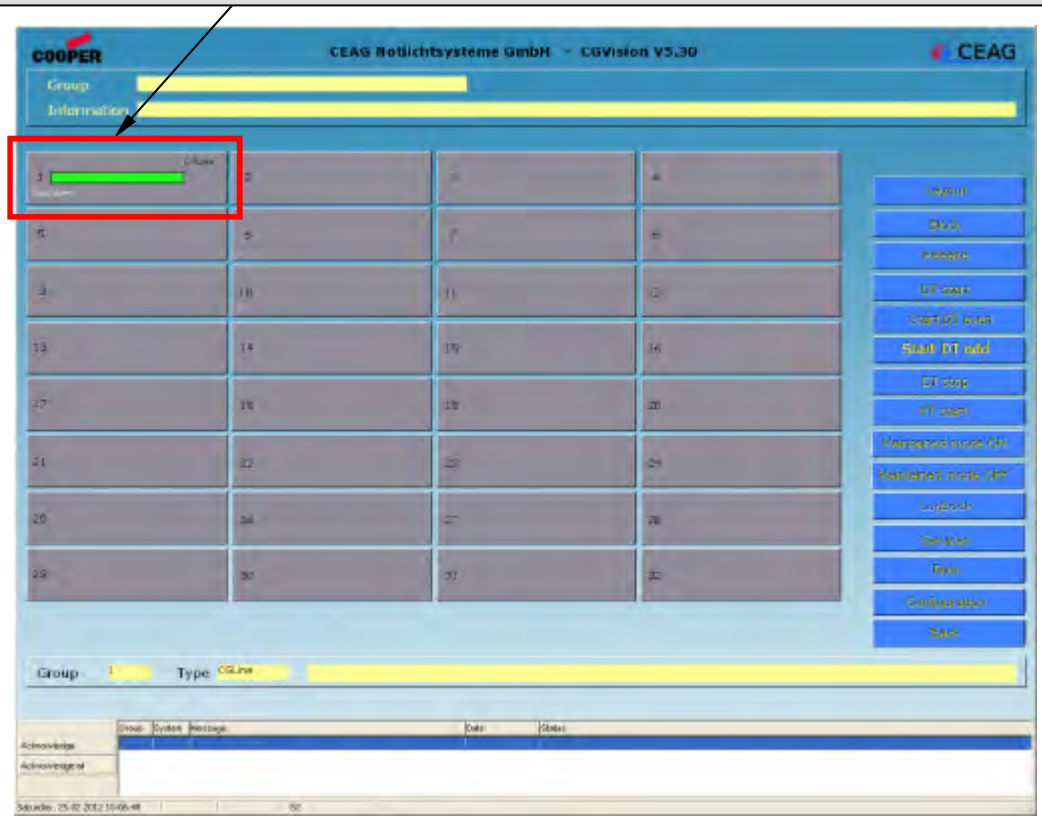
b) In the 'System type' drop-down menu 'CGLine' must be selected.

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

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



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'.



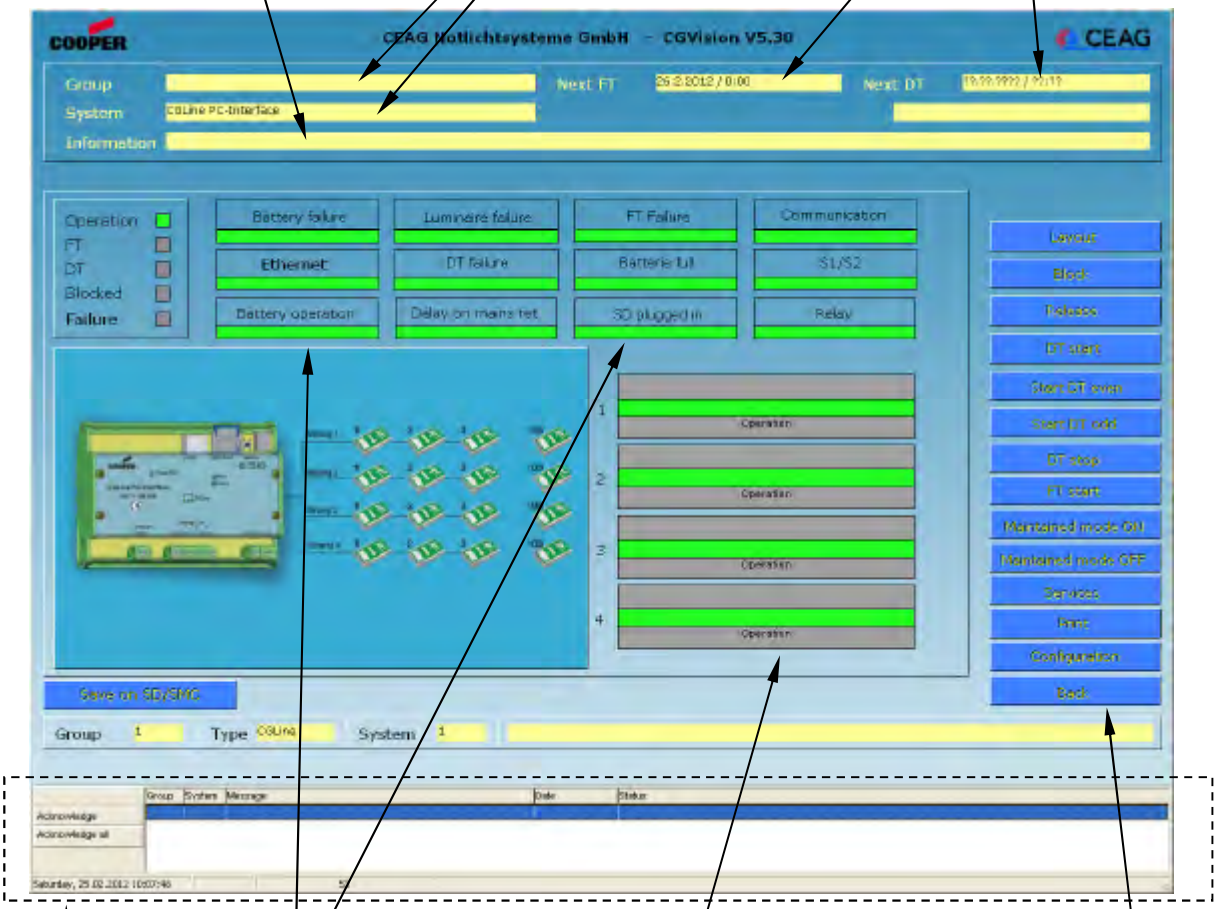
9.2 Device screen – CGLine PC interface

9.2.1 Structure of the device screen:

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



Direct status messages of device
With coloured status display
green= OK , red = fault

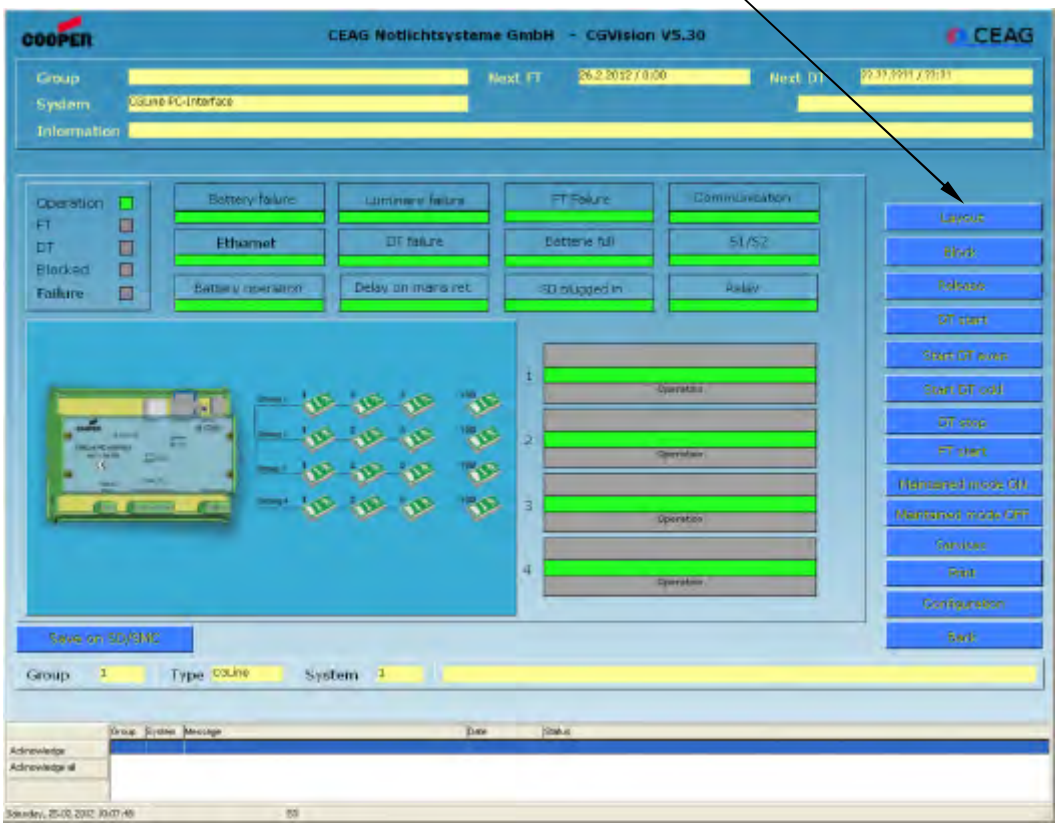
Buttons for commands
or configuration settings

Installed lines, max. 4 pcs. each with max. 100 CGLine luminaires, with display of current status:
Green = luminaires in line OK
Yellow = min. 1 luminaire in test
Red = min. 1 luminaire in the line is faulty
Grey field signifies 'line not installed'.

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

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

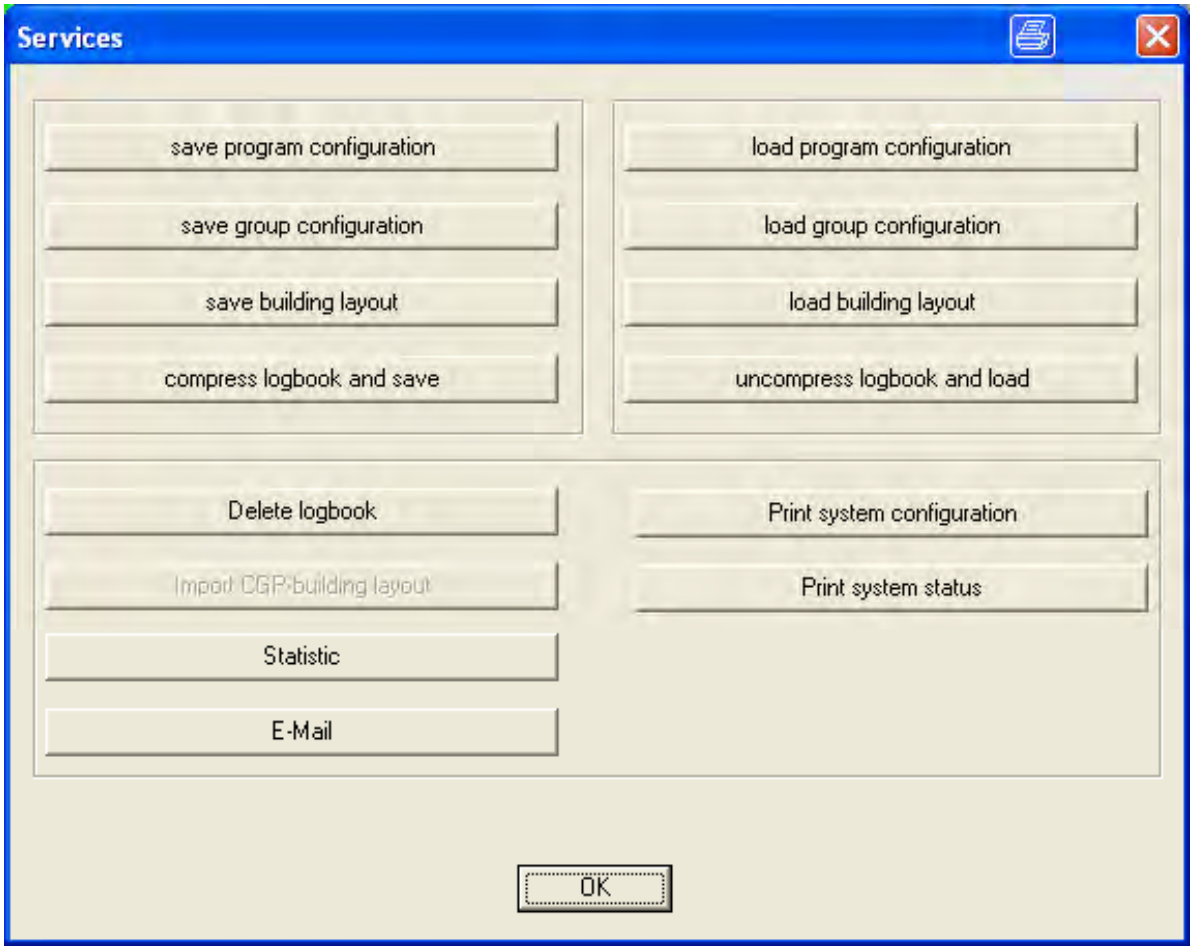
m). 'Configuration'
Configuration settings for all data on the device screen

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'.

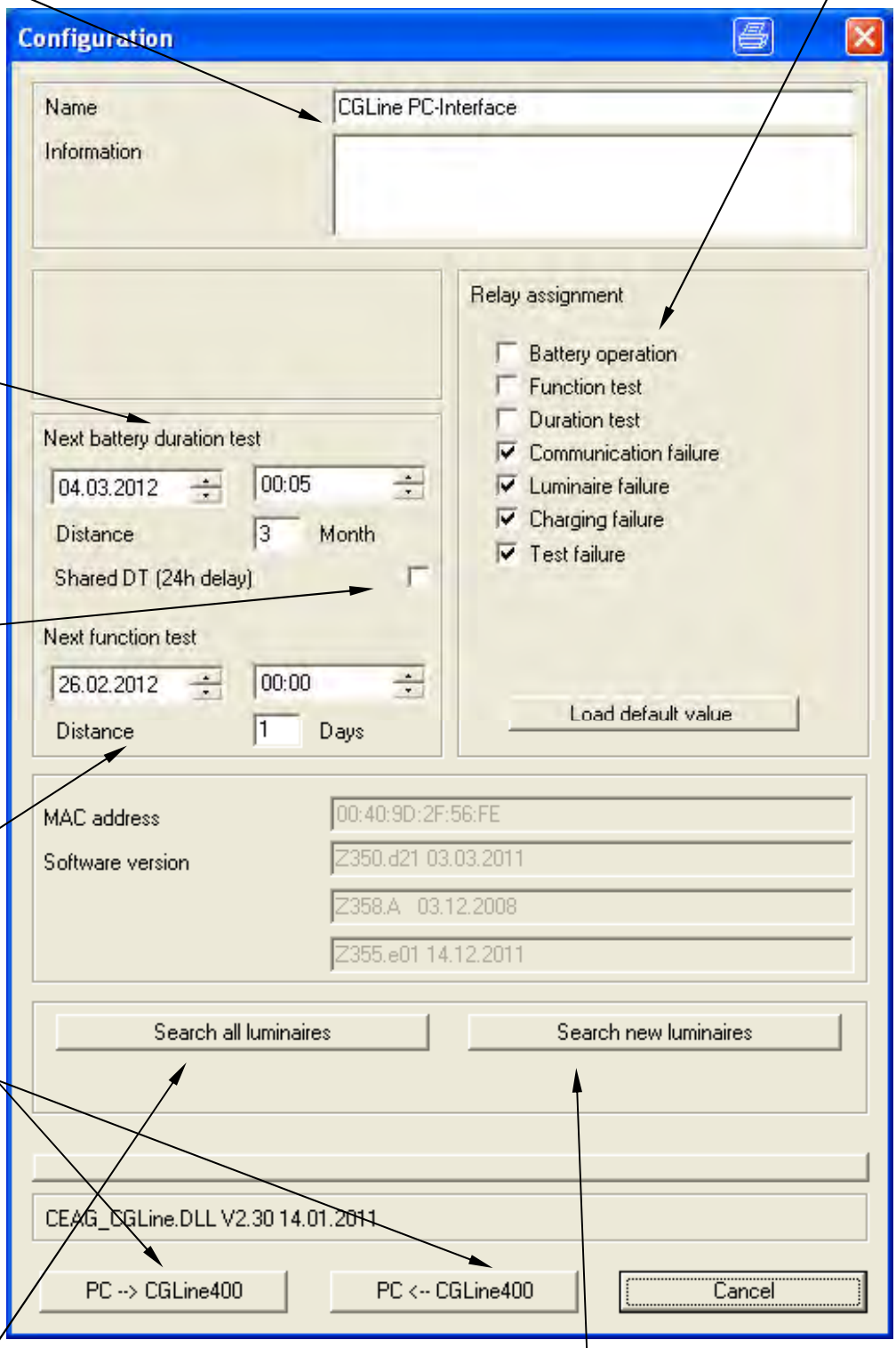
The 'Statistics' button creates a text file that lists the number of devices and the luminaires.

'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.

<u>With first commissioning:</u>
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.

<u>With expansions:</u>
If an existing configuration is to be expanded with new luminaires it is recommended to only search for new luminaires.
'Find new luminaires' can be implemented for this purpose. Existing logical address assignments are maintained.

9.3 Line screen

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

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

9.3 Line screen

9.3.1 Structure of the line screen

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

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

Functional buttons: Only affect luminaires in this line

Line display: current line

Buttons to the luminaire level (per luminaire) see Point 9.3.3 Luminaire screen

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

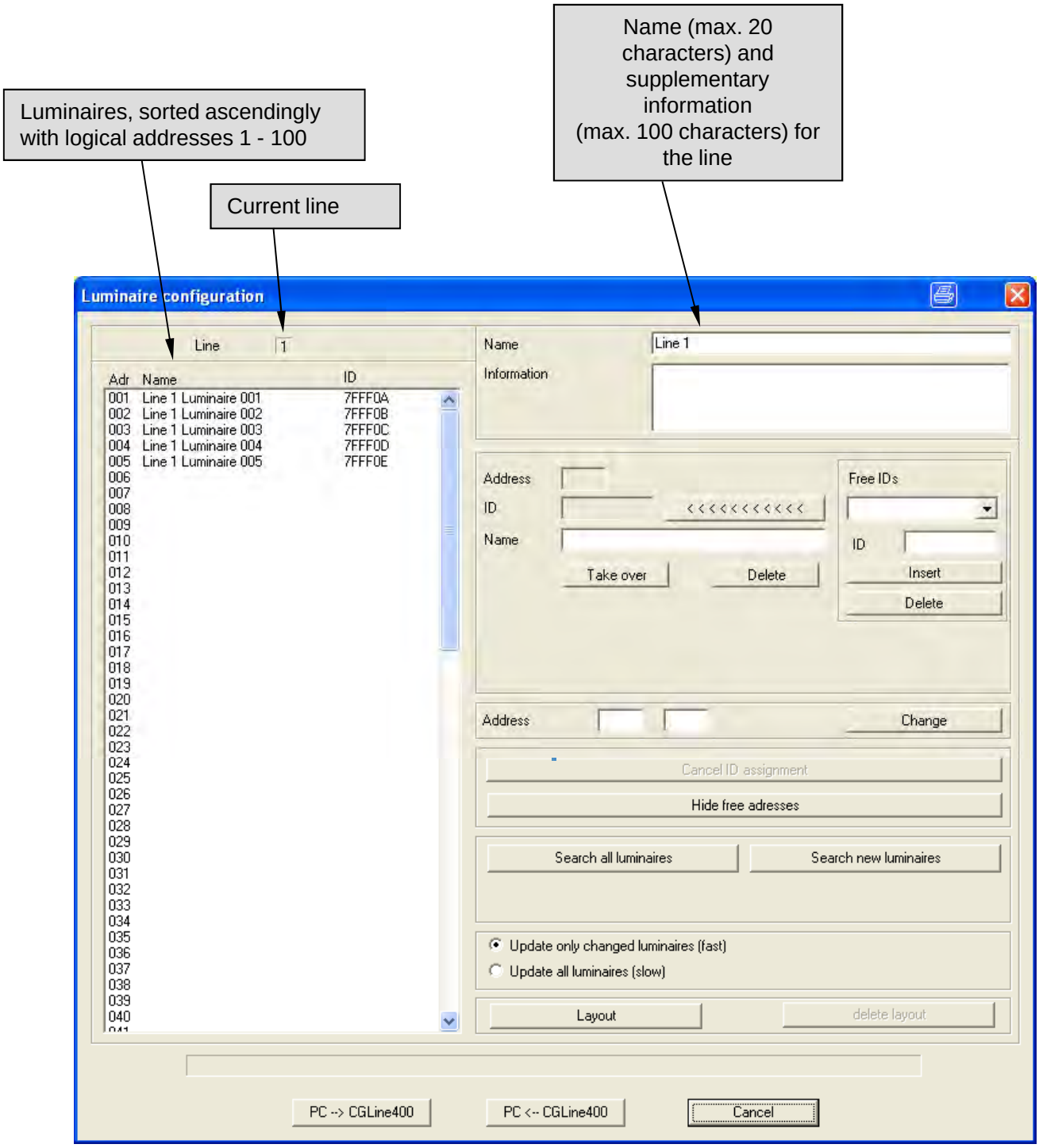
Status display of the line, meaning with min. fault for a luminaire the field is displayed red = fault
Clicking on the specific message shows a further display

Button for luminaire configuration (see Point 9.3.2 Luminaire configuration)

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

Installed luminaires with status display
Grey = OFF
Yellow = ON
Red = faulty

9.3.2 Luminaire configuration

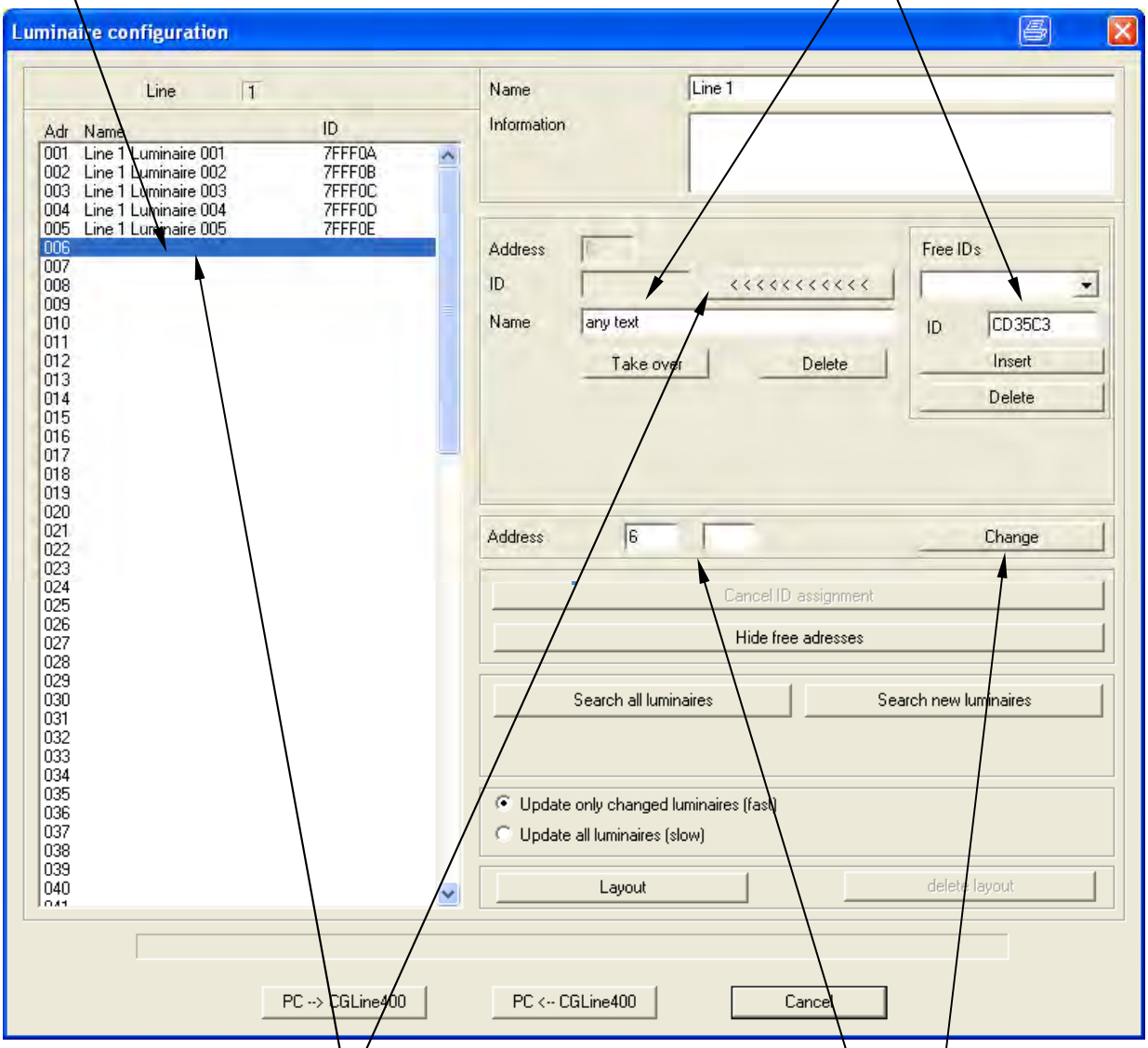


9.3.2 Luminaire configuration

9.3.2.1 Manually luminaire configuration

1. Selection of desired luminaire address, e.g. 6

2. Entry of the luminaire-ID (label) and luminiare name with max. 20 characters



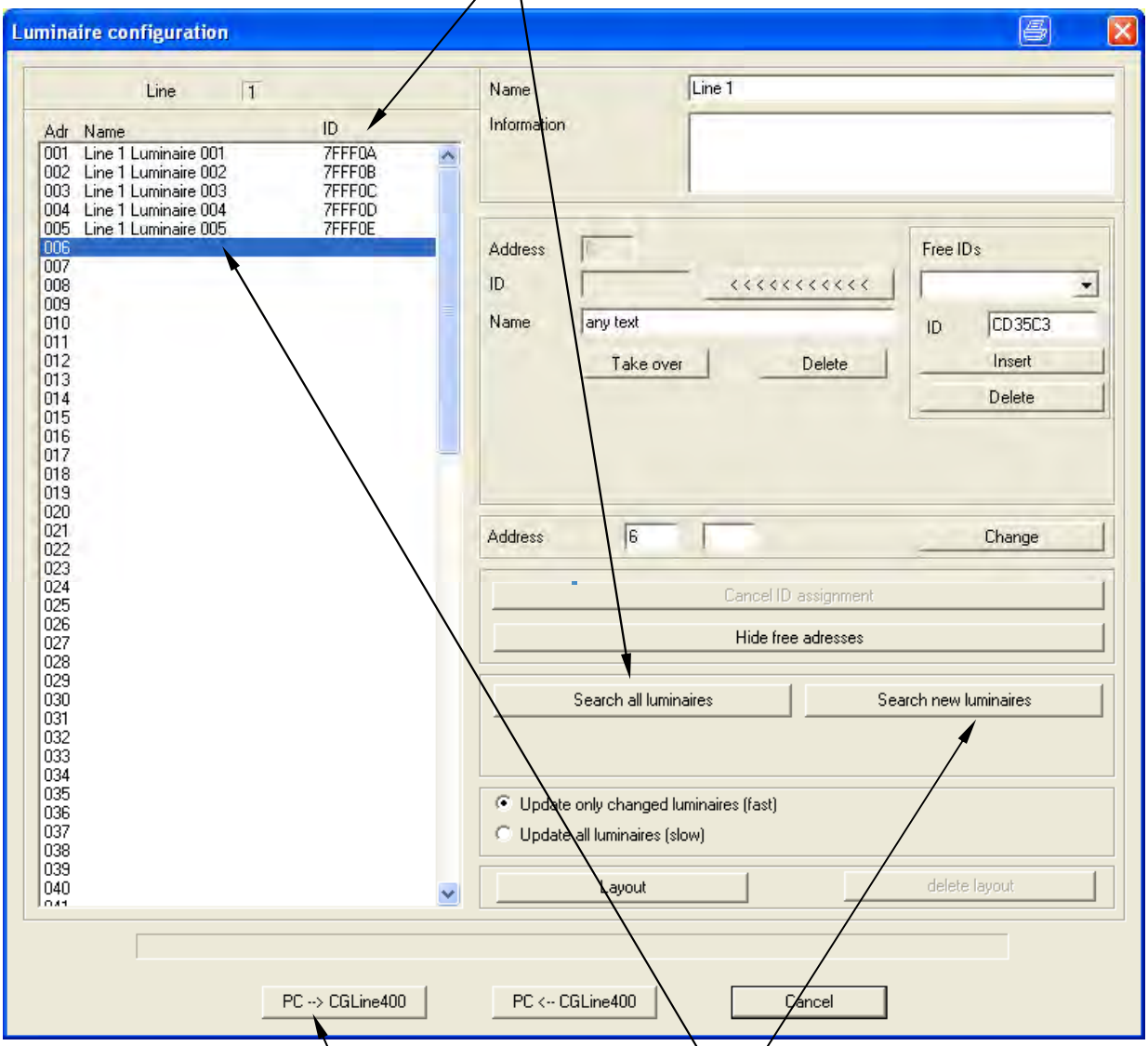
3. With <<<<<<<<<< , the new luminaire will be added in the left line list

With change two luminaire addresses can be swapped

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
Attetion: all old configurations will be overwrite !



Via „Search new luminaires“, only new luminiares will be added in the list. All stored confgurations will be kept.

to finish this menu, press „PC → CGLine400“
All changes will be transfered to the interface, which can last some minutes

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

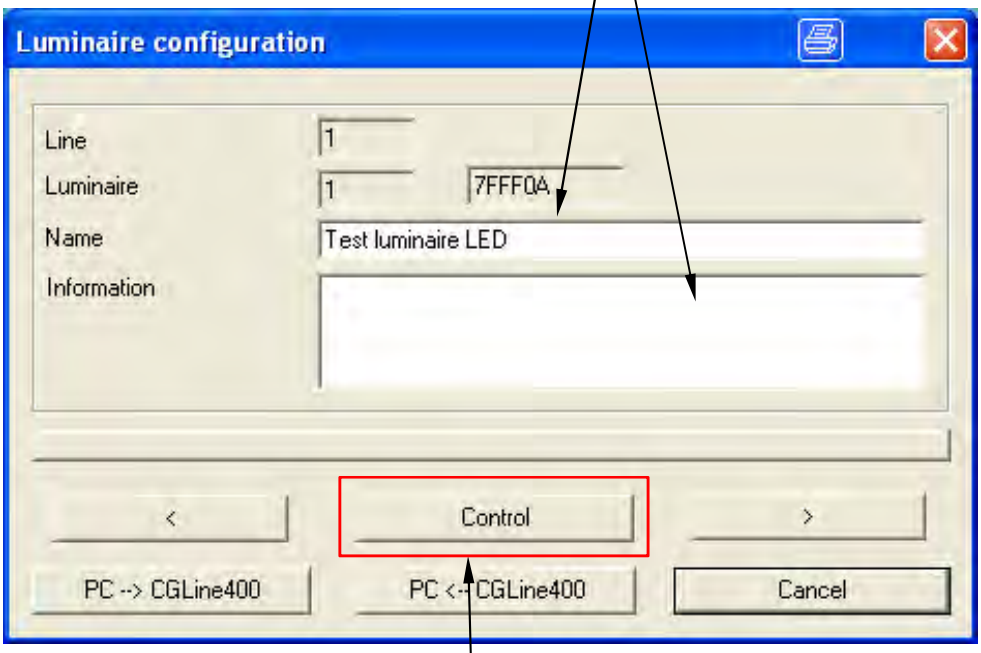
Extended status display of the luminaire
Green = OK
Red = Failure
with left mouseclick, a failure list of the luminaires appears

Alarmlist with all events, which are stored in the logbook

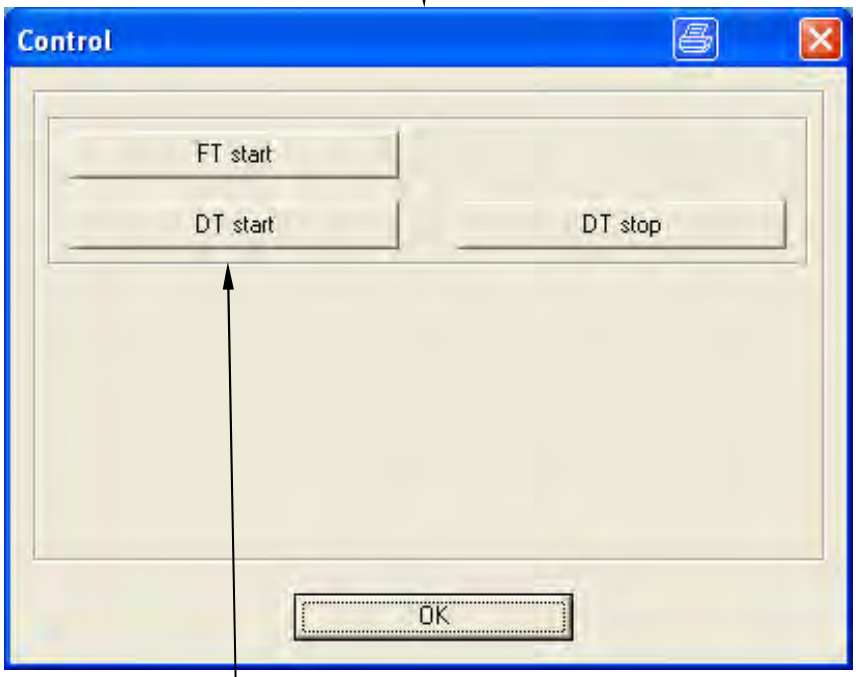
Via configuration the luminaires can be edit, and some tests can be started
(see next page)

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

Input of Luminaire name (max. 20 characters) and additional information (max.100 characters)



With Click on „Control“, a new window appears



A Function Test or a Duration Test of the luminiare can be started or interuppted

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CEAG Notlichtsysteme GmbH

Senator-Schwartz-Ring 26
D-59494 Soest
Telefon + 49 2921 / 69-870
Telefax + 49 2921 / 69-617
Internet http://www.ceag.de
E-Mail Info-n@ceag.de

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Installation and operating instructions
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Section 10
Monitoring of external devices

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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 conncted, 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

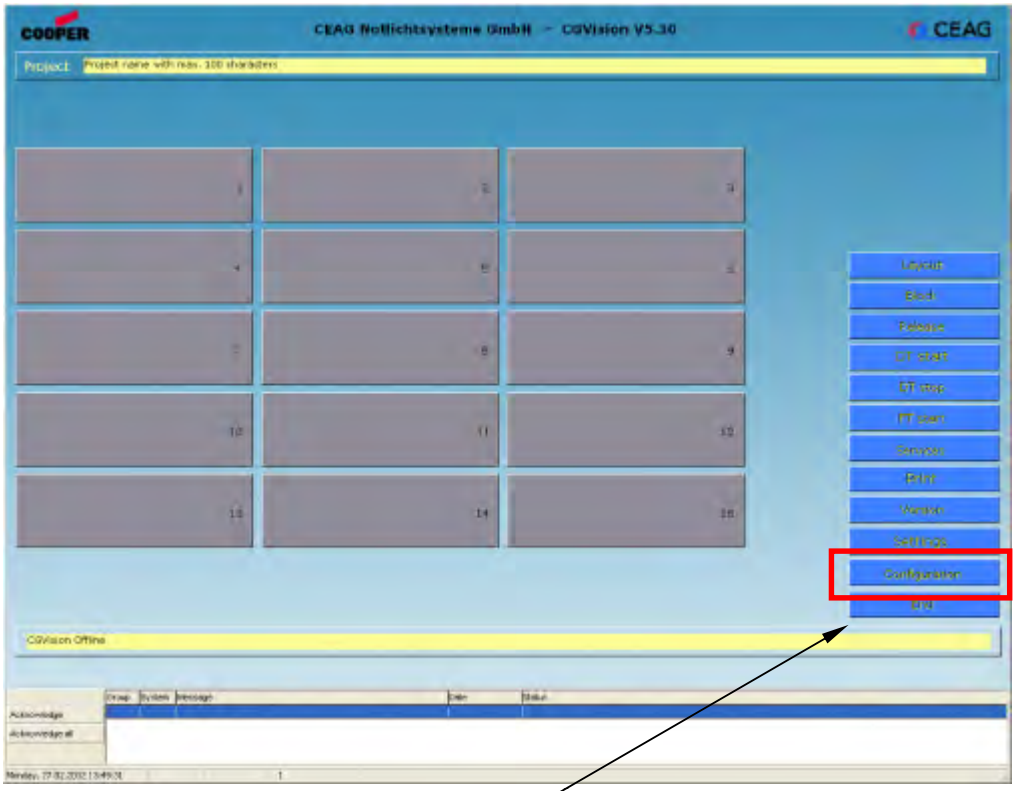
The I/O interface connection box consists of an I/O module (F3 interface) and a power supply unit, installed in a surface-mounted wall housing for simple wall mounting. The I/O module has 4 digital inputs (24V) and 5 relay outputs (max. 230V/ AC, 8A).
Connection to CGVision is via the CG-S bus, meaning 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



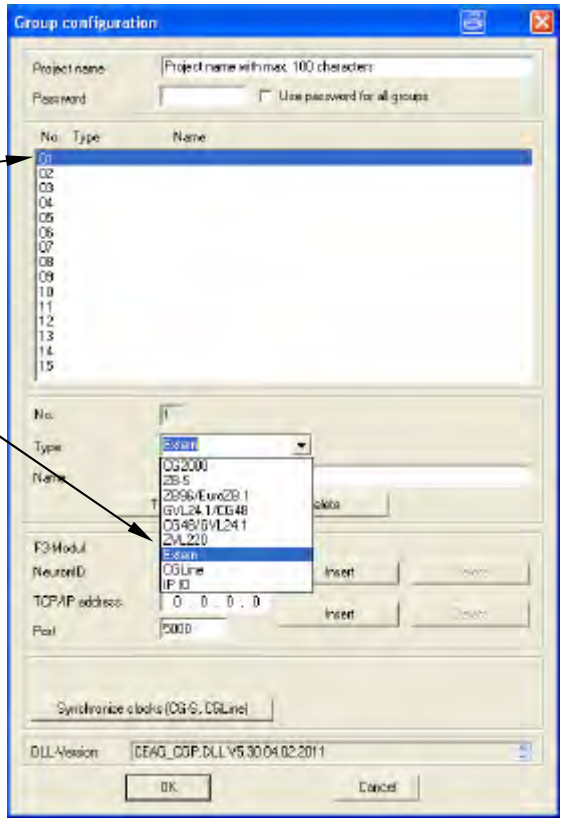
A new device family can be created via the Configuration menu, in this case 'externally'.

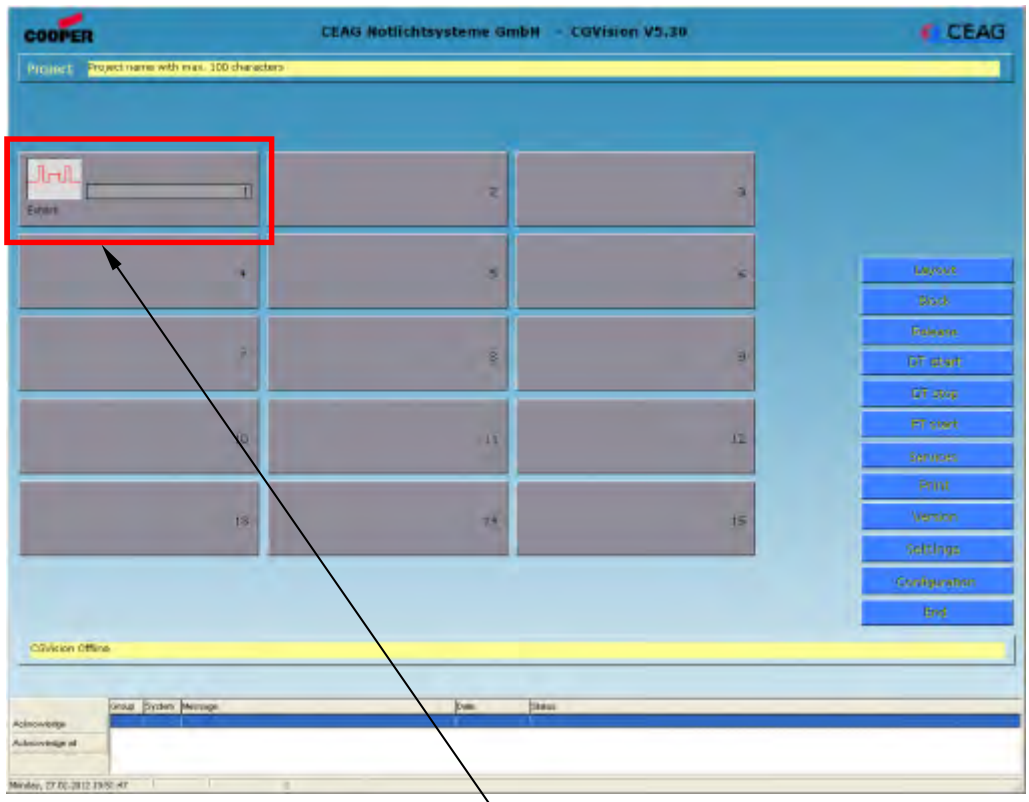
The group configuration menu then appears:

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

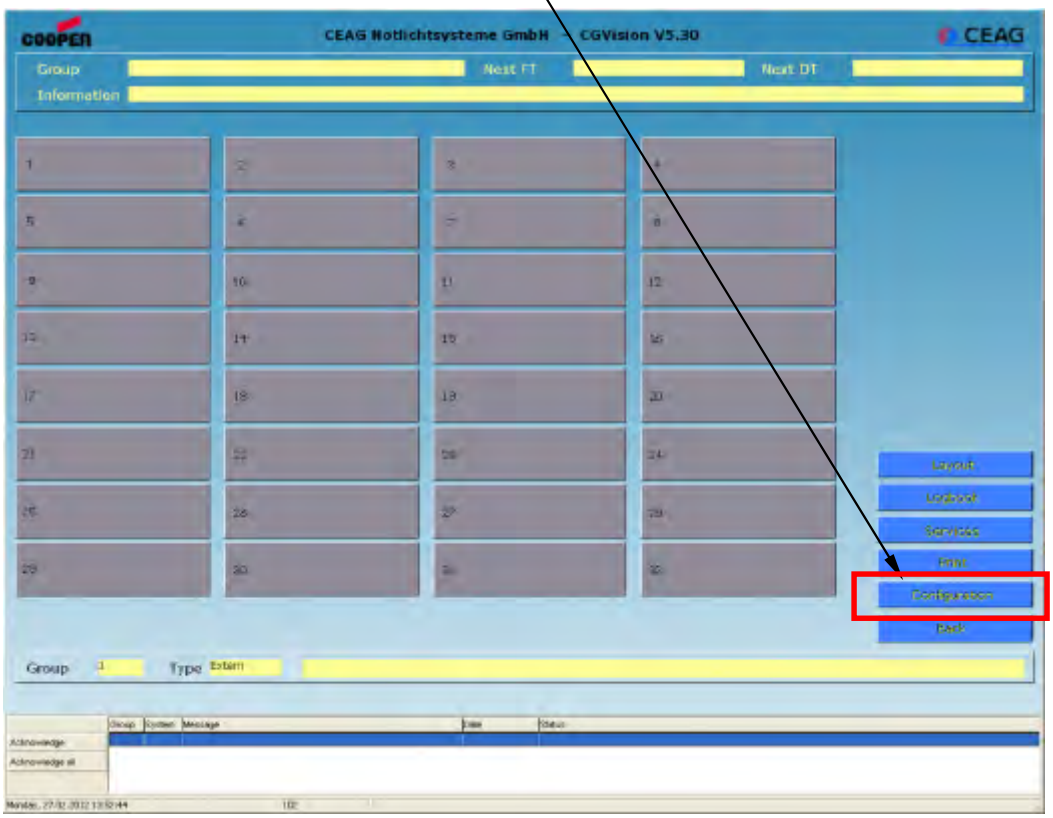
b) In the 'Type' drop-down menu the system type 'External' can be selected and a system group name can be assigned

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)

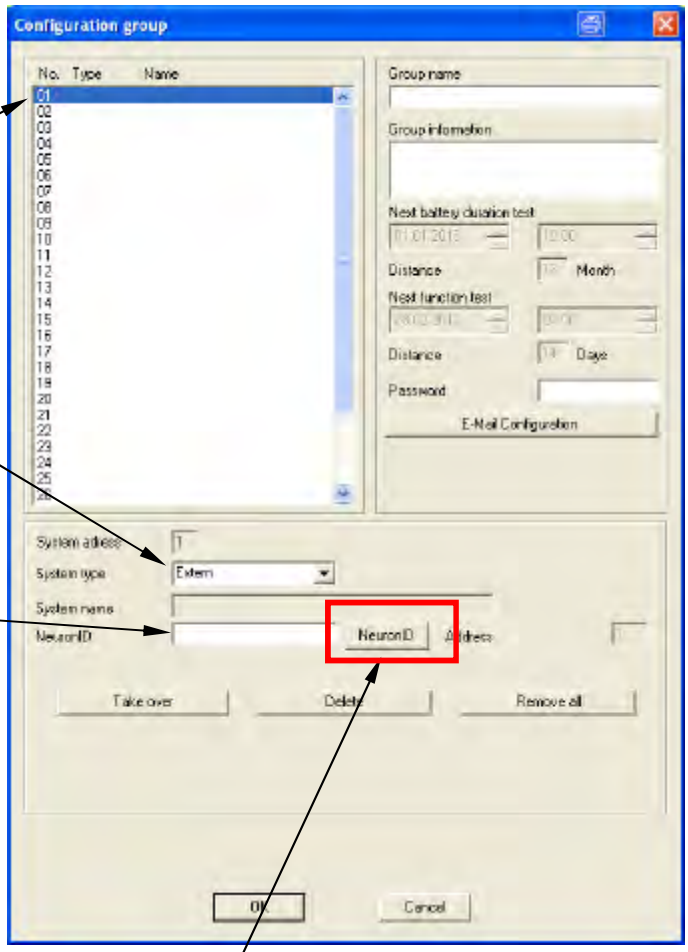
b) 'External' system type

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.

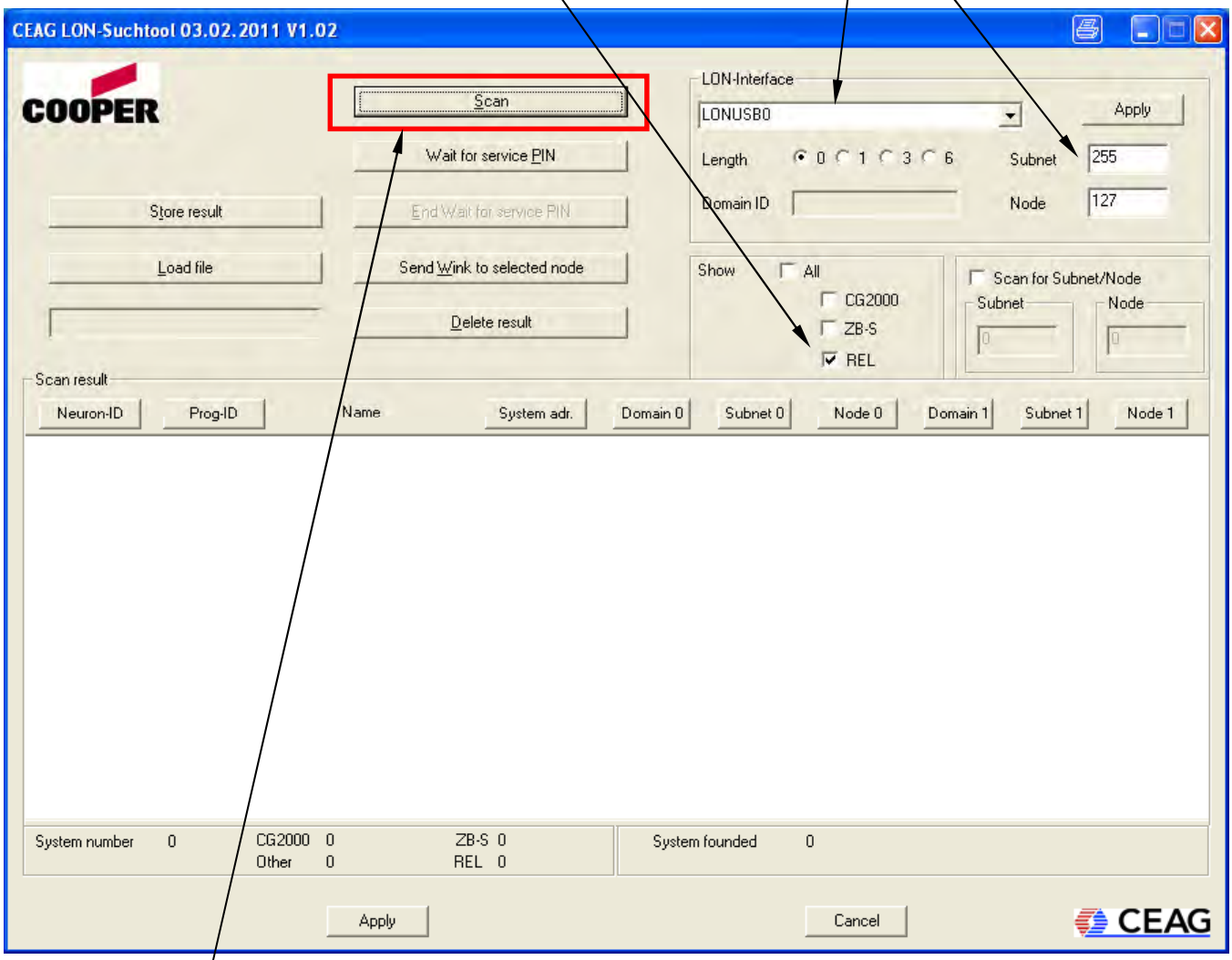


About the first entry of the Neuron ID via the new search tool:
The simplest method to add devices in CGVision is offered by a new search tool that carries out a network scan on the CG-S bus and lists all modules with a Neuron ID. To start the search tool, the desired device address
(in the example address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

The CEAG search tool opens in a new window

1. The LON interface must be set to 'LONxxx0', e.g. with LONUSB to LONUSB0, according to which interface is used. In the example below with LONIP, the interface must therefore be set to LONIP0.
The length must be set to 0, the subnet to a number between 1 and 255, the node to between 1 and 127
-Save these settings by clicking on 'Accept'.

2. 'REL' must be activated as display

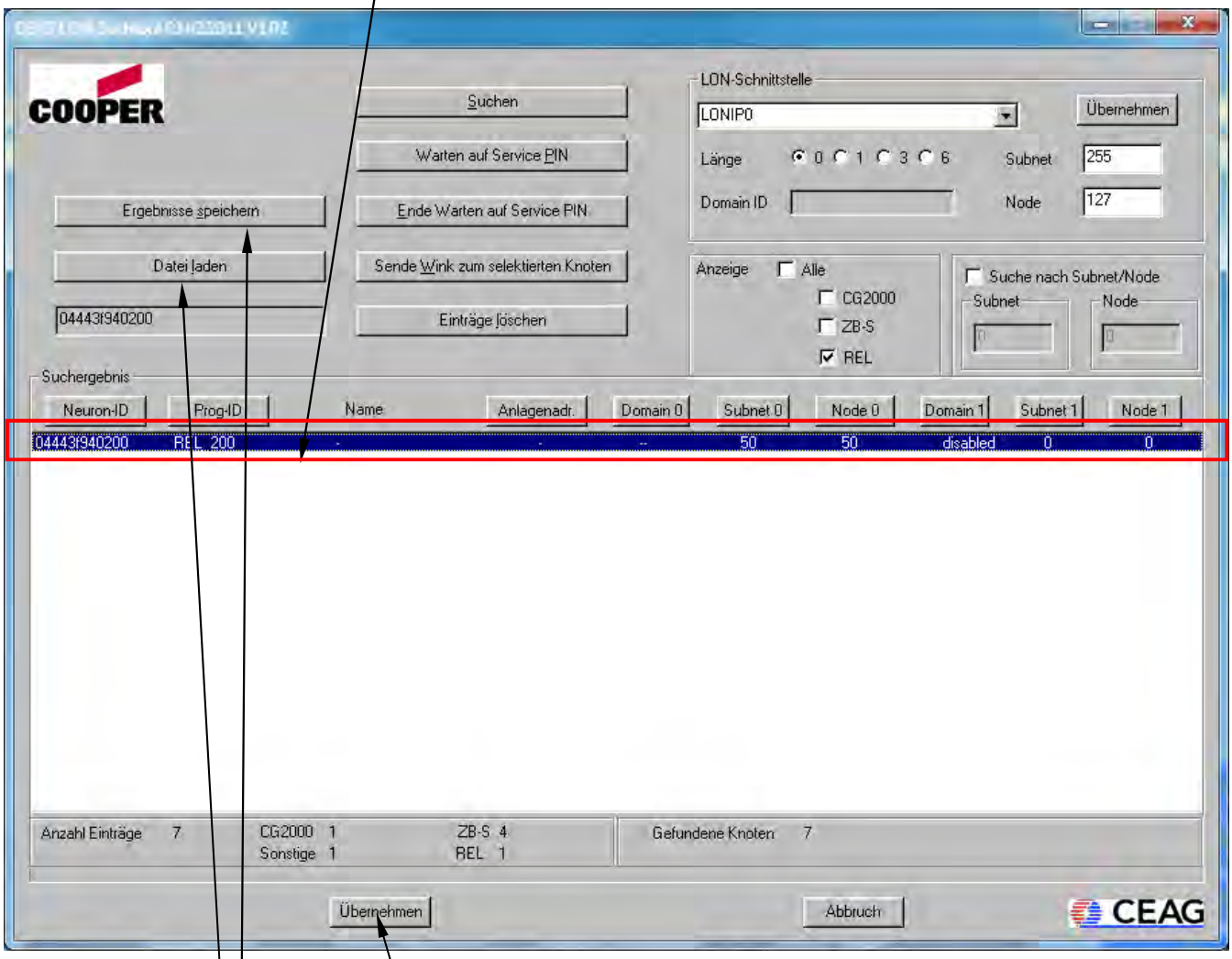


The network scan can now be started with 'Search'. With correct bus installation, all I/O modules found are now listed (next screen)

The network scan may take some minutes according to the quantity of installed modules.

All I/O modules found are specified with the Neuron ID in the 'search results' list.

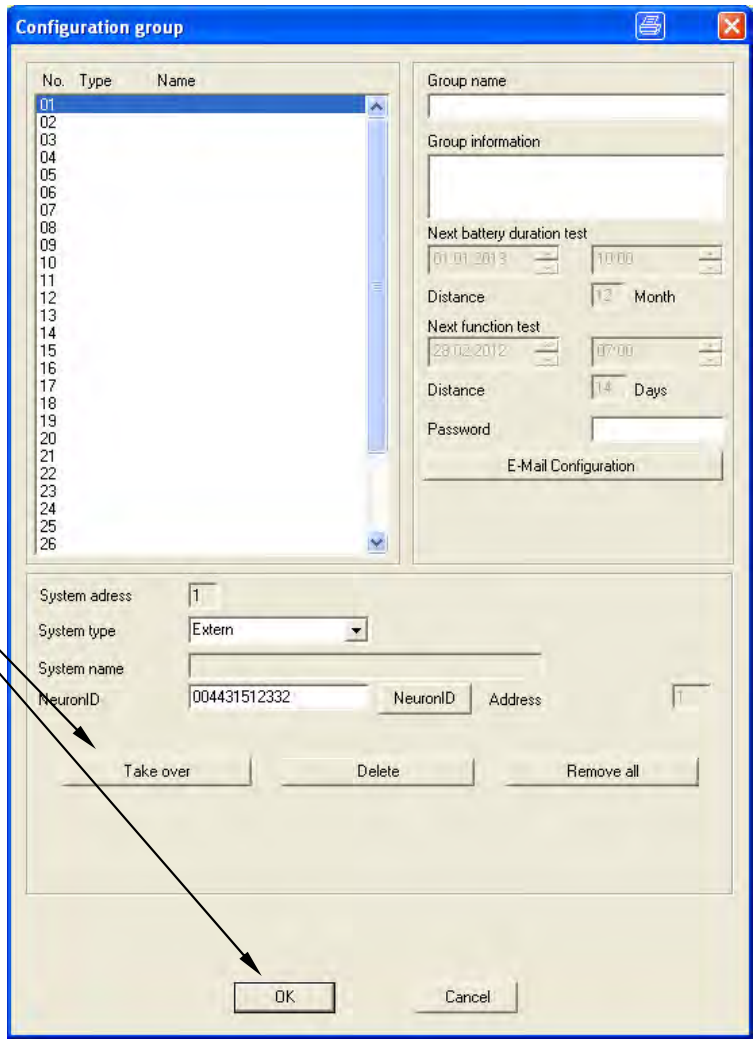
The required I/O module with the Neuron ID must now be selected; this is then displayed marked blue.



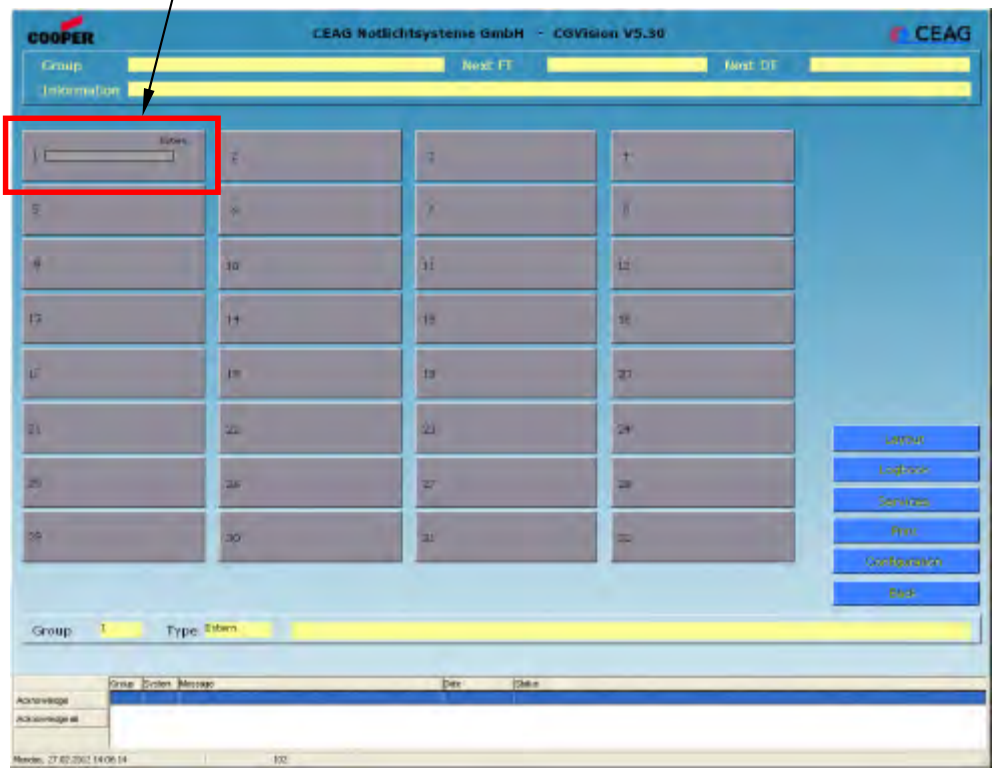
'Accept' automatically copies the NeuronID into the device configuration (next screen)

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

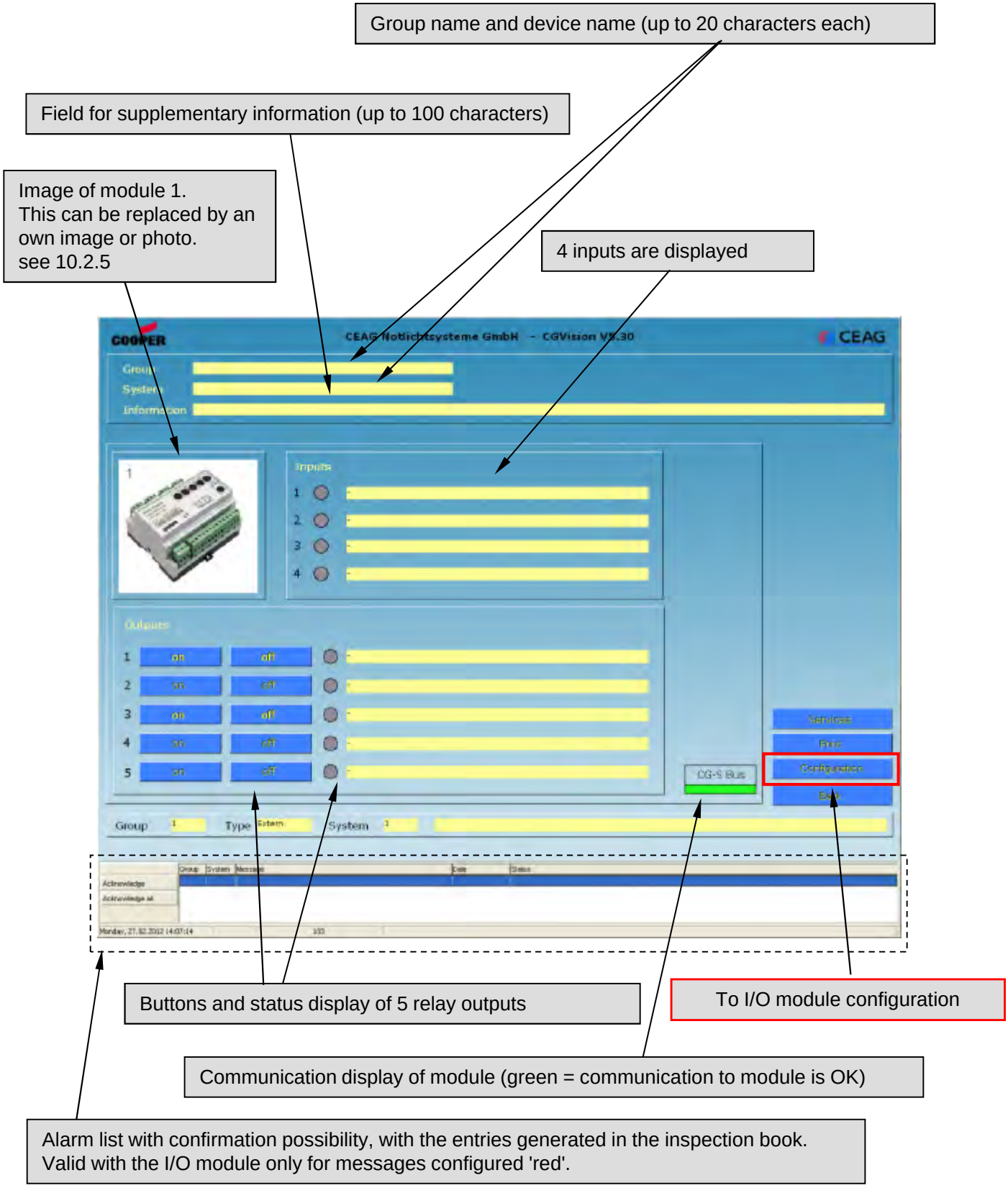
The Neuron-ID is now automatically transferred for the module.
By clicking on 'Accept' a new device can now be added in a similar way.
When all I/O modules are added to this group, clicking on 'OK' saves all changes. A CGVision restart then follows.



After the CGVision restart the added devices are displayed with type designation in the assigned button. This button is now active, and after the first start does not display a current status because the inputs/outputs have not yet been configured.
By clicking the group button the next screen opens: 'Device screen' .



10.2.3 Structure of the device screen:



10.2.4 I/O module configuration:

Device name (up to 20 characters)

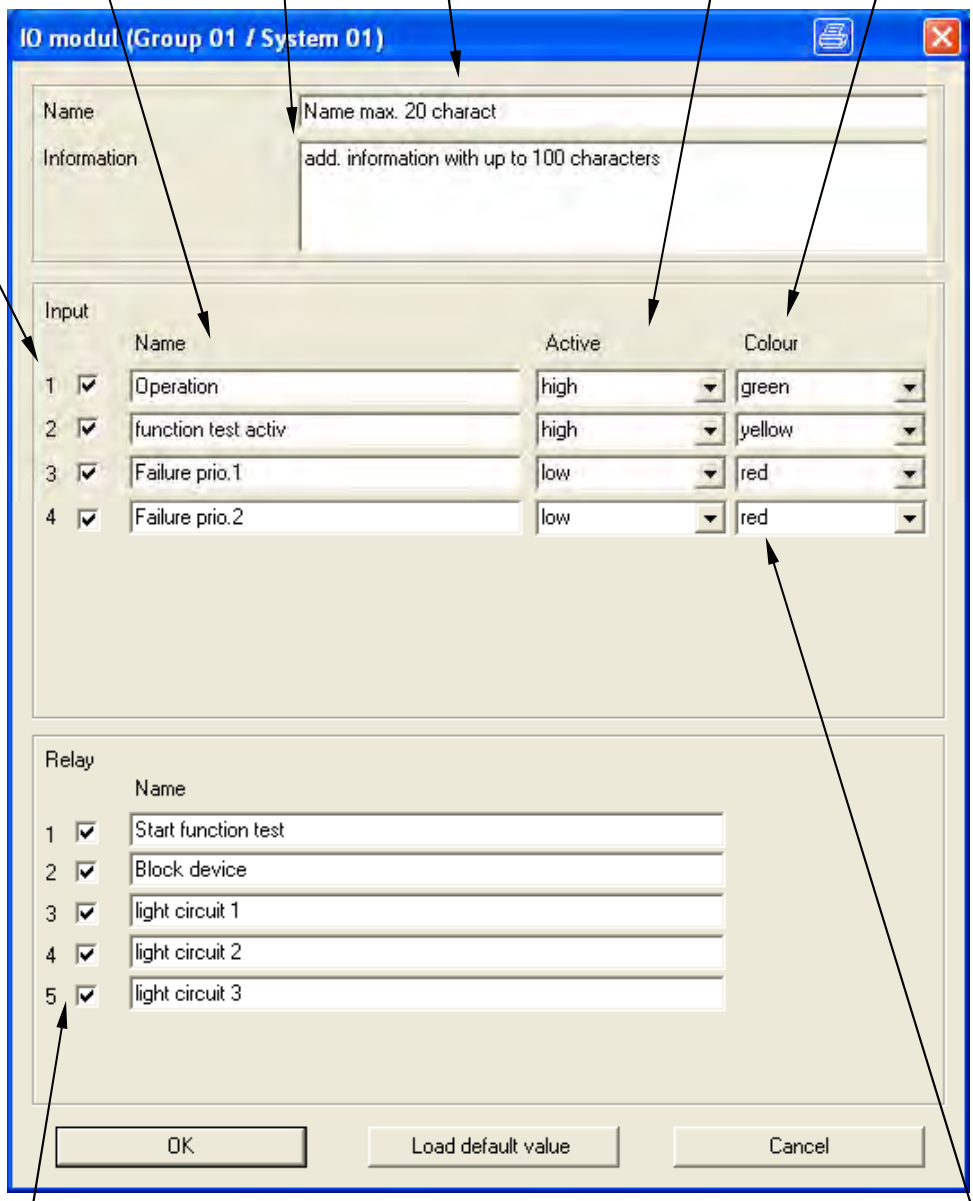
Field for supplementary information (up to 100 characters)

Activation of inputs 1 to 4

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

Name of inputs
(max. 20 characters each)



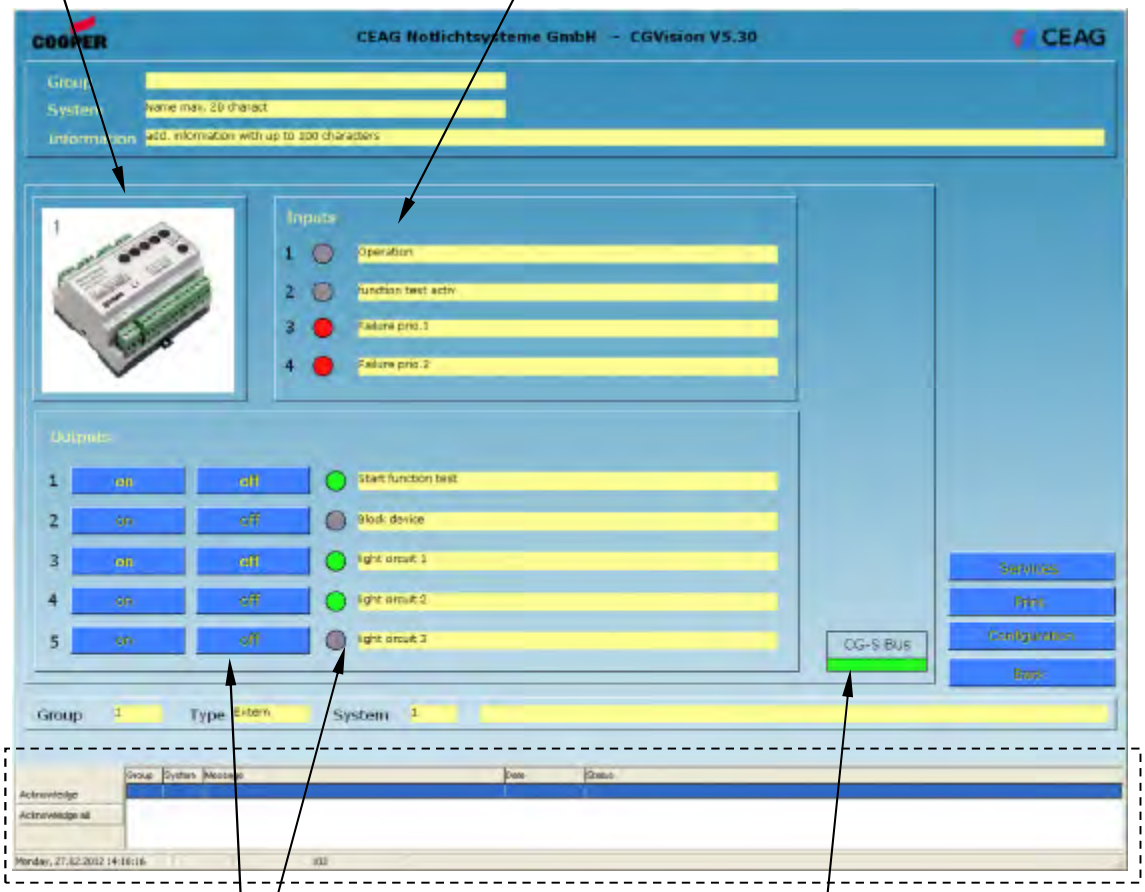
Configuration of 5 relay outputs with text assignment

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

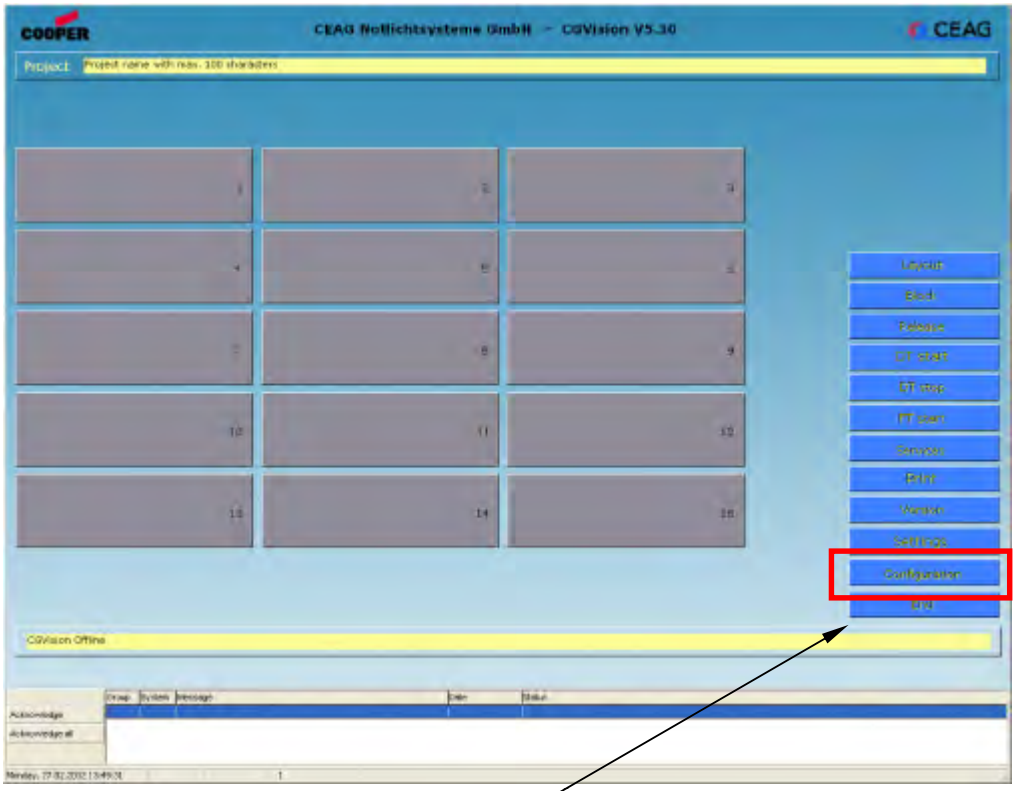
The I/O ethernet module has 8 digital inputs (24V) and 7 relay outputs (max. 24V/ AC, 1A). Connection to CGVision is via the LAN, meaning it can be connected in an existing ethernet.
Via the digital inputs or relay outputs it is possible in CGVision to set off up to 8 control commands (e.g. start test) 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



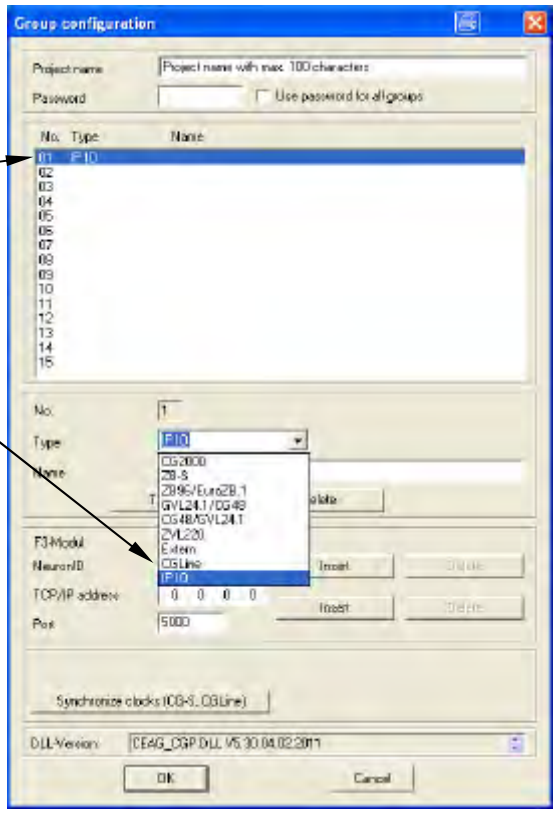
A new device family can be created via the Configuration menu, in this case 'IP IO'.

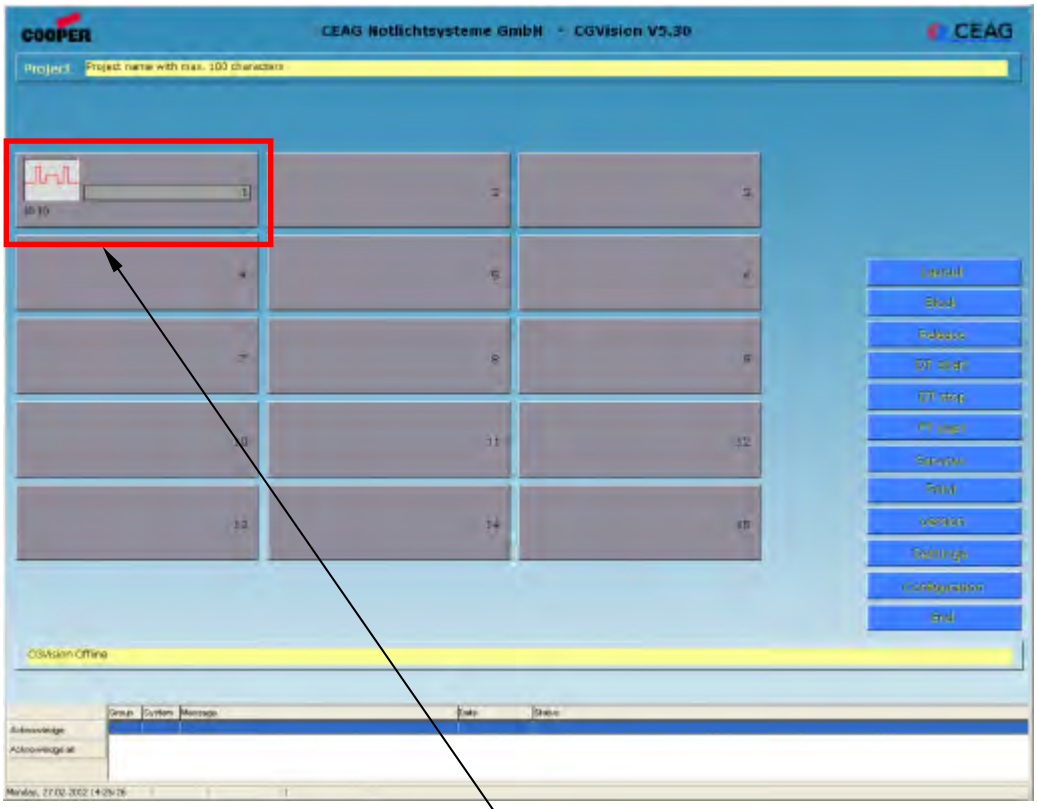
The group configuration menu then appears:

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

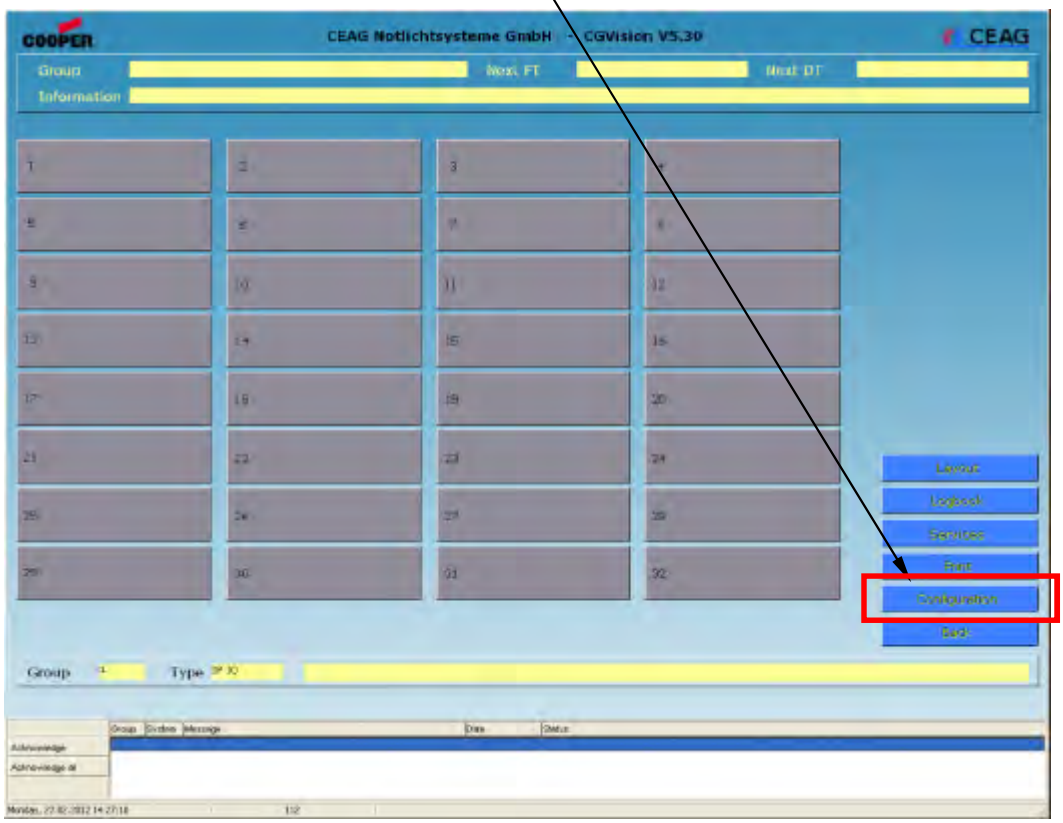
b) In the 'Type' drop-down menu the system type 'IP IO' can be selected and a system group name can be assigned

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



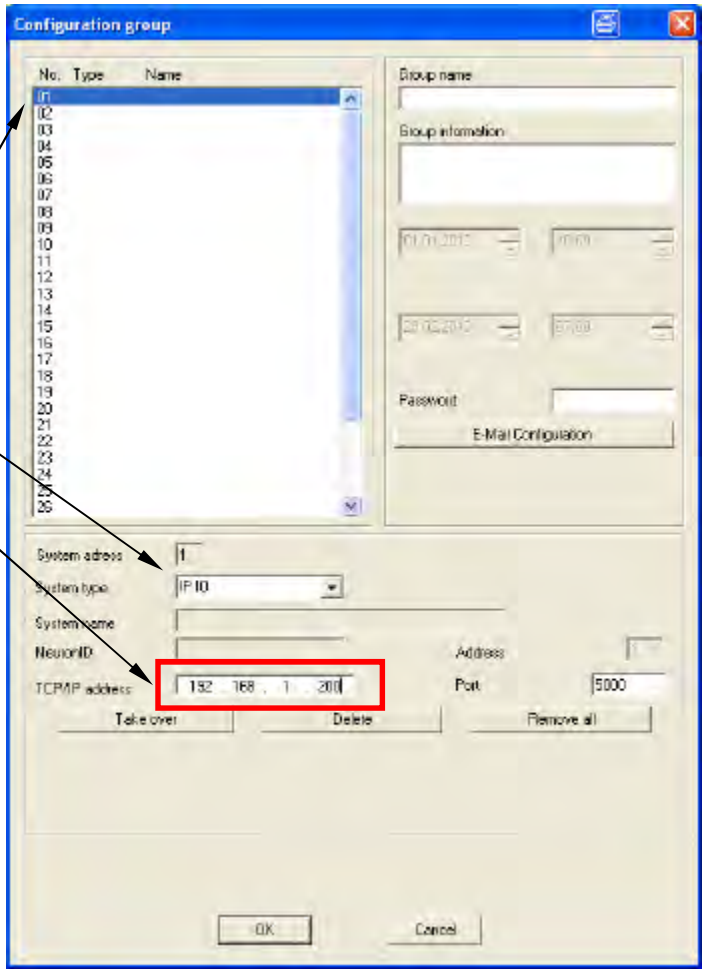
The system configuration menu then appears:

a) In the device selection window the I/O module can now be assigned any logical address (marked blue)

b) 'IP IO' system type

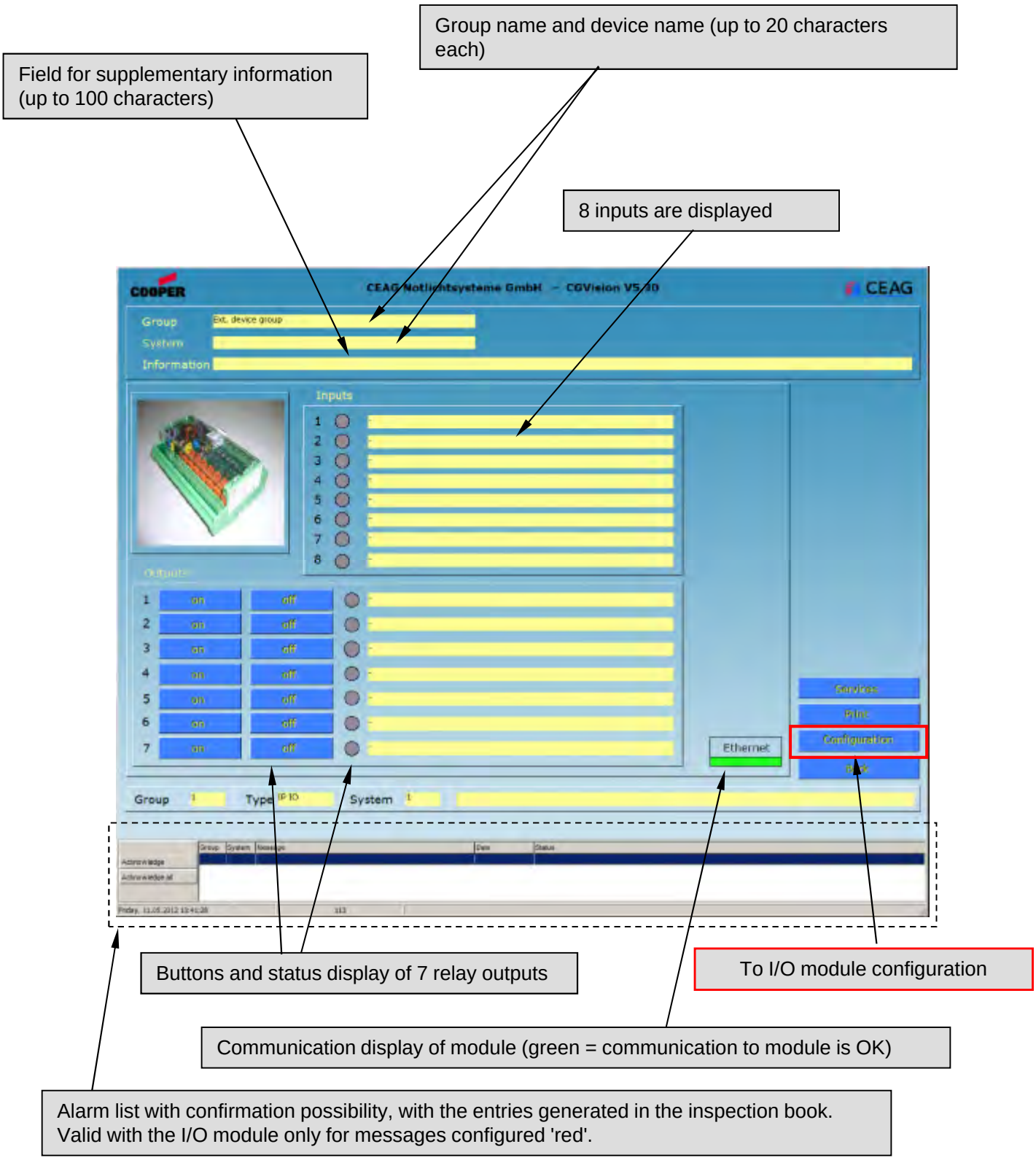
c) The IP address of the module must now be entered

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)

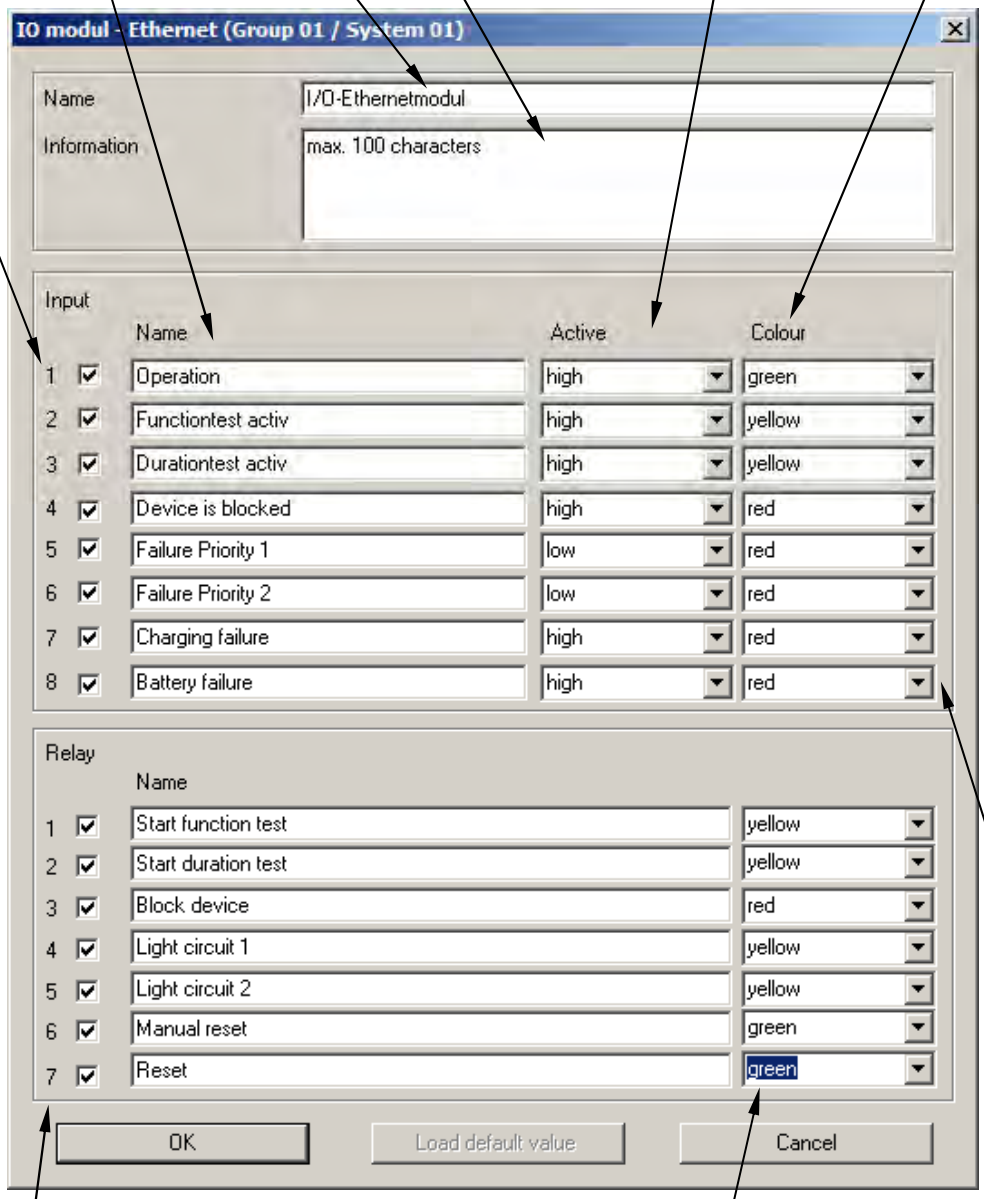
Field for supplementary information (up to 100 characters)

Activation of inputs 1 to 8

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

Name of inputs (max. 20 characters each)



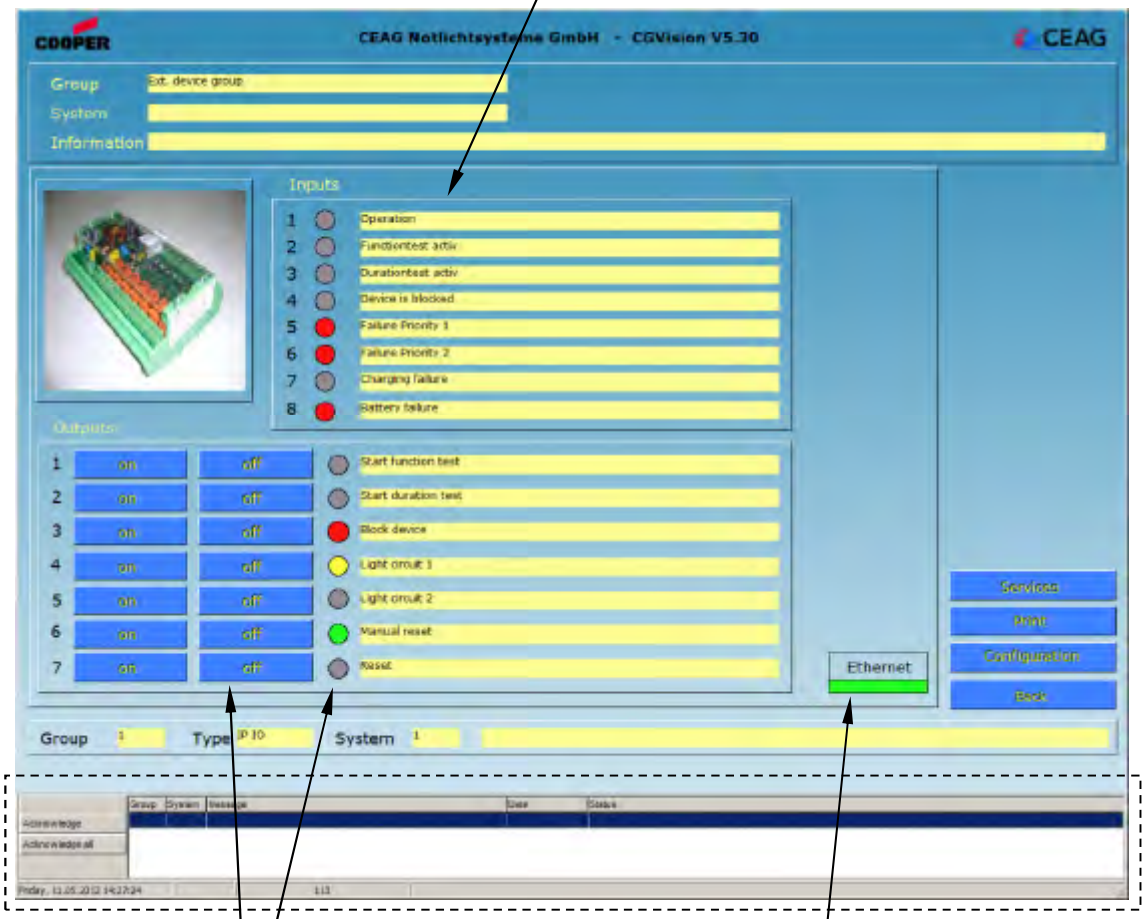
Configuration of 7 relay outputs with text assignment

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 -

CEAG Notlichtsysteme GmbH

Senator-Schwartz-Ring 26
59494 Soest, Germany
Telephone + 49 2921 / 69-870
Fax + 49 2921 / 69-617
Internet http://www.ceag.de
E-Mail Info-n@ceag.de

COOPER Safety

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

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Section 11
CGVision e-mail function

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11 CGVision e-mail function

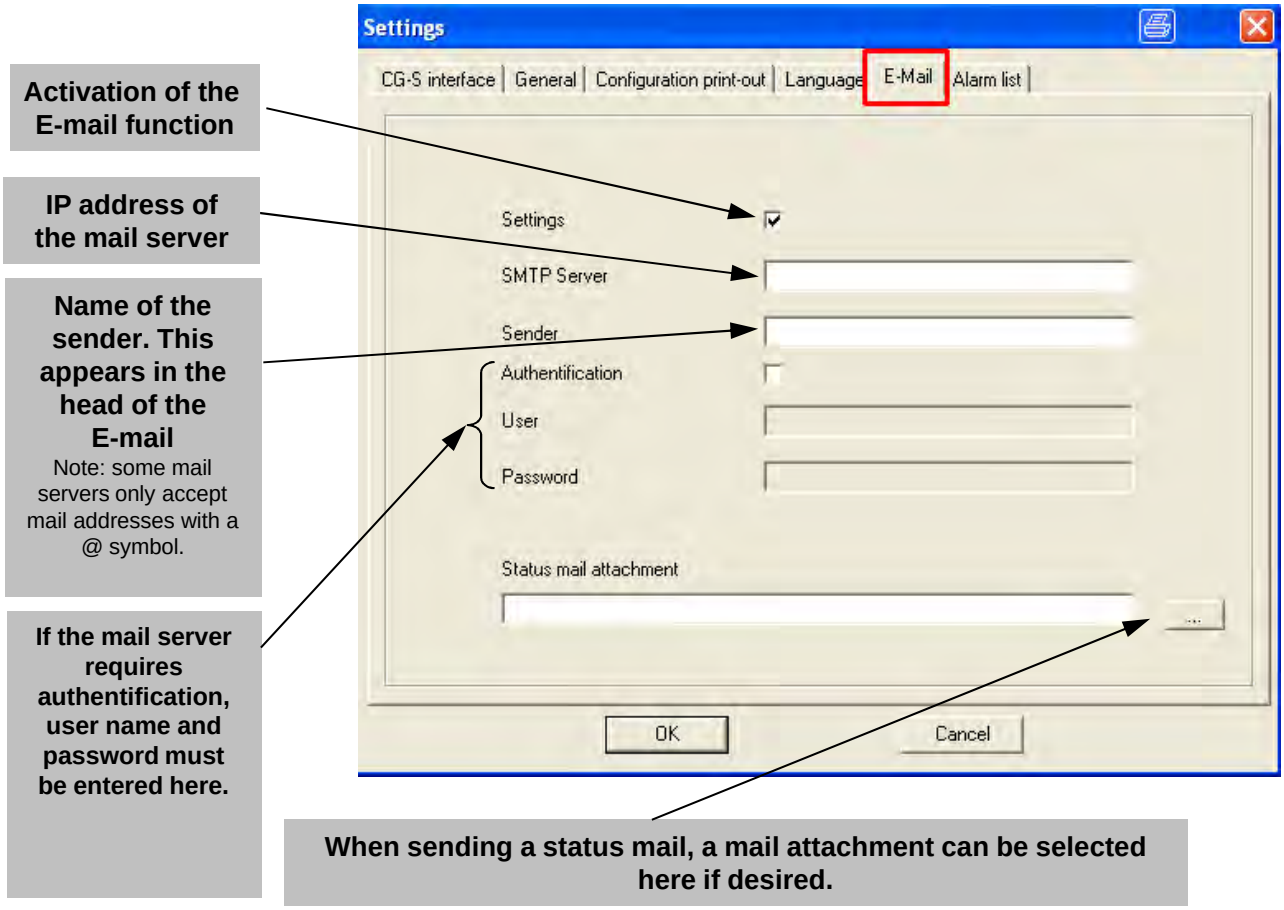
11.1 CGVision e-mail function information

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.

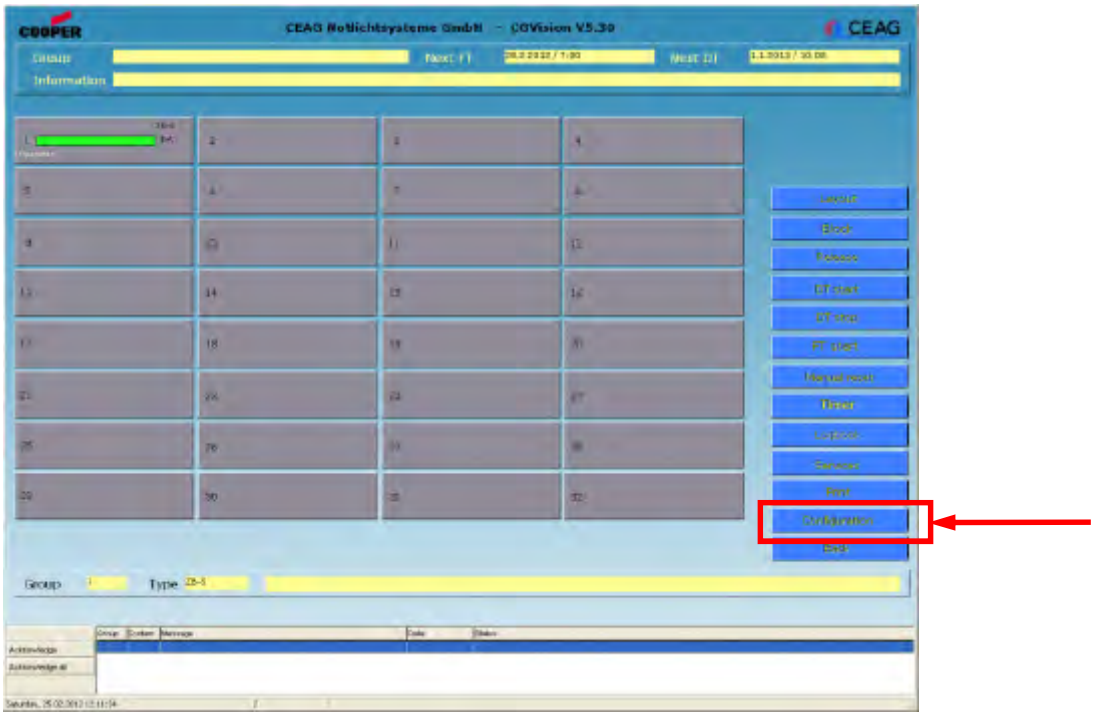
11.2 Activating the e-mail function

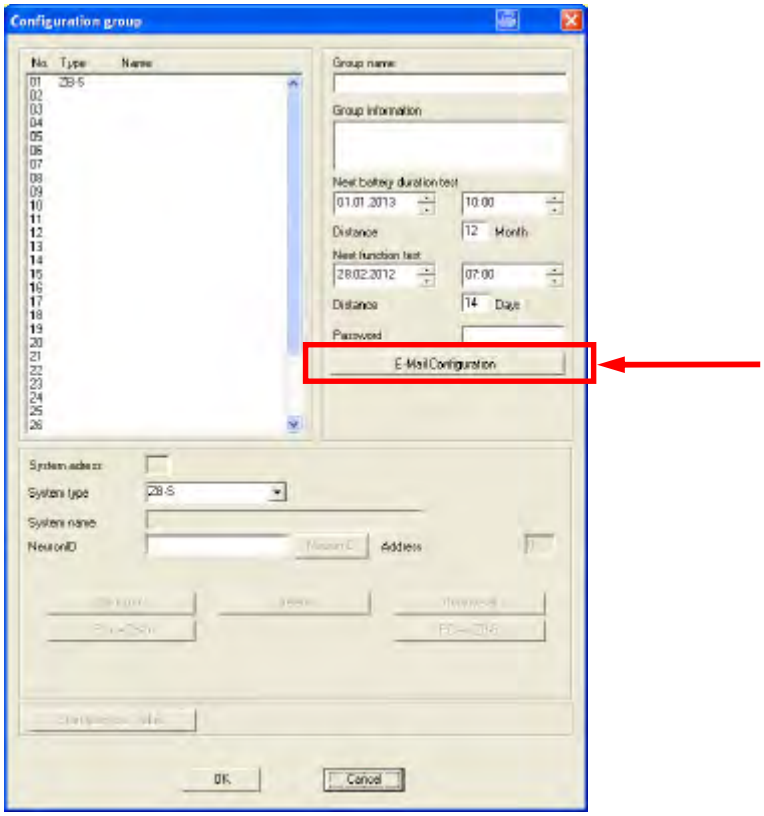
To use the e-mail function this must be first be activated in the Settings menu. In addition, the basic settings for e-mail functionality are defined in this menu. The settings are applied in the Settings menu in the 'E-Mail' tab:



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:

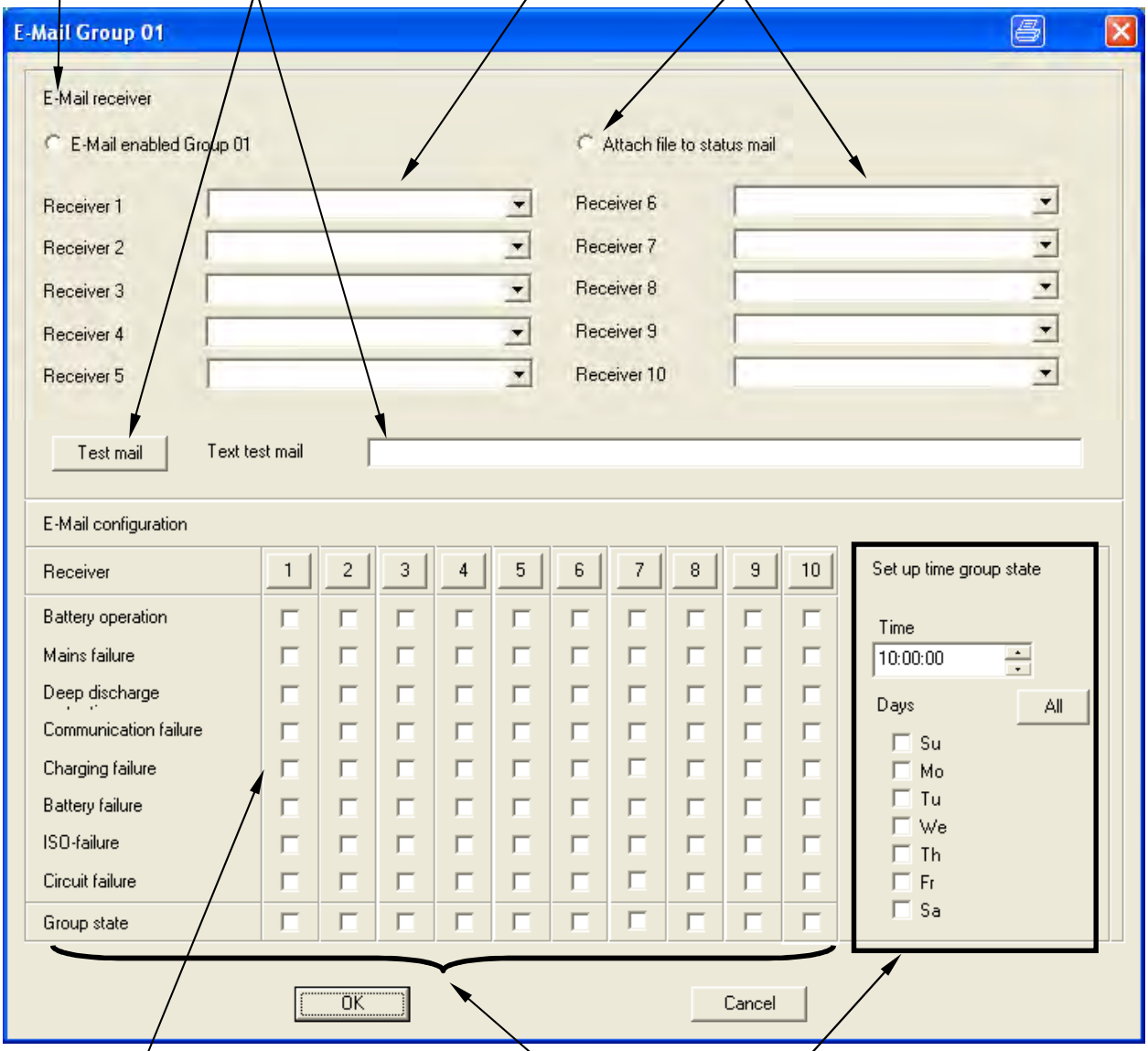
In the e-mail configuration menu of a device group it is possible to assign various events for e-mail sending to up to 10 e-mail recipients.

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



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.

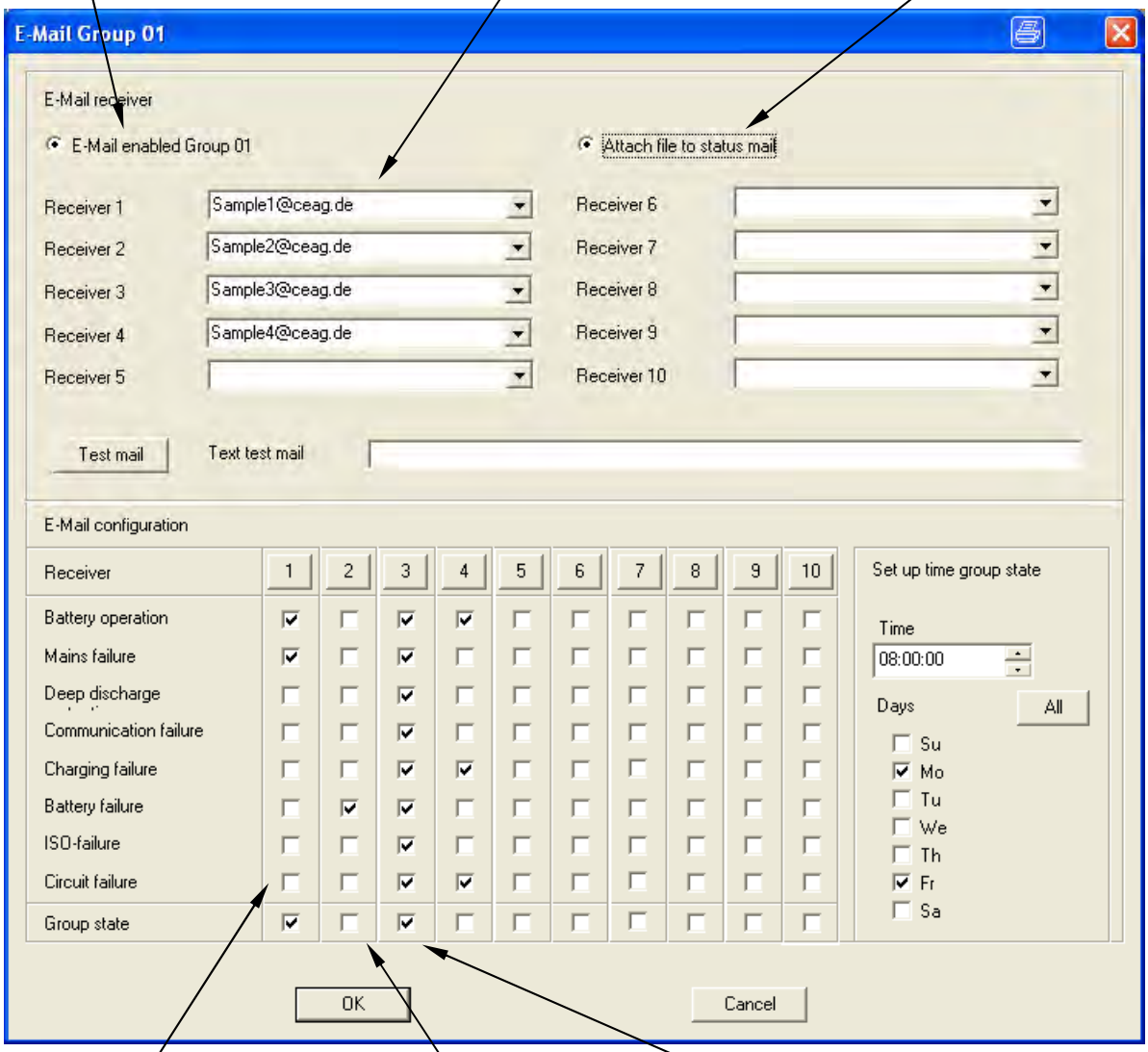
11.4 Example of an e-mail configuration

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



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!-

CEAG Notlichtsysteme GmbH

Senator-Schwartz-Ring 26
D-59494 Soest
Telefon + 49 2921 / 69-870
Telefax + 49 2921 / 69-617
Internet http://www.ceag.de
E-Mail Info-n@ceag.de

COOPER Safety

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Section 12
Layout programming

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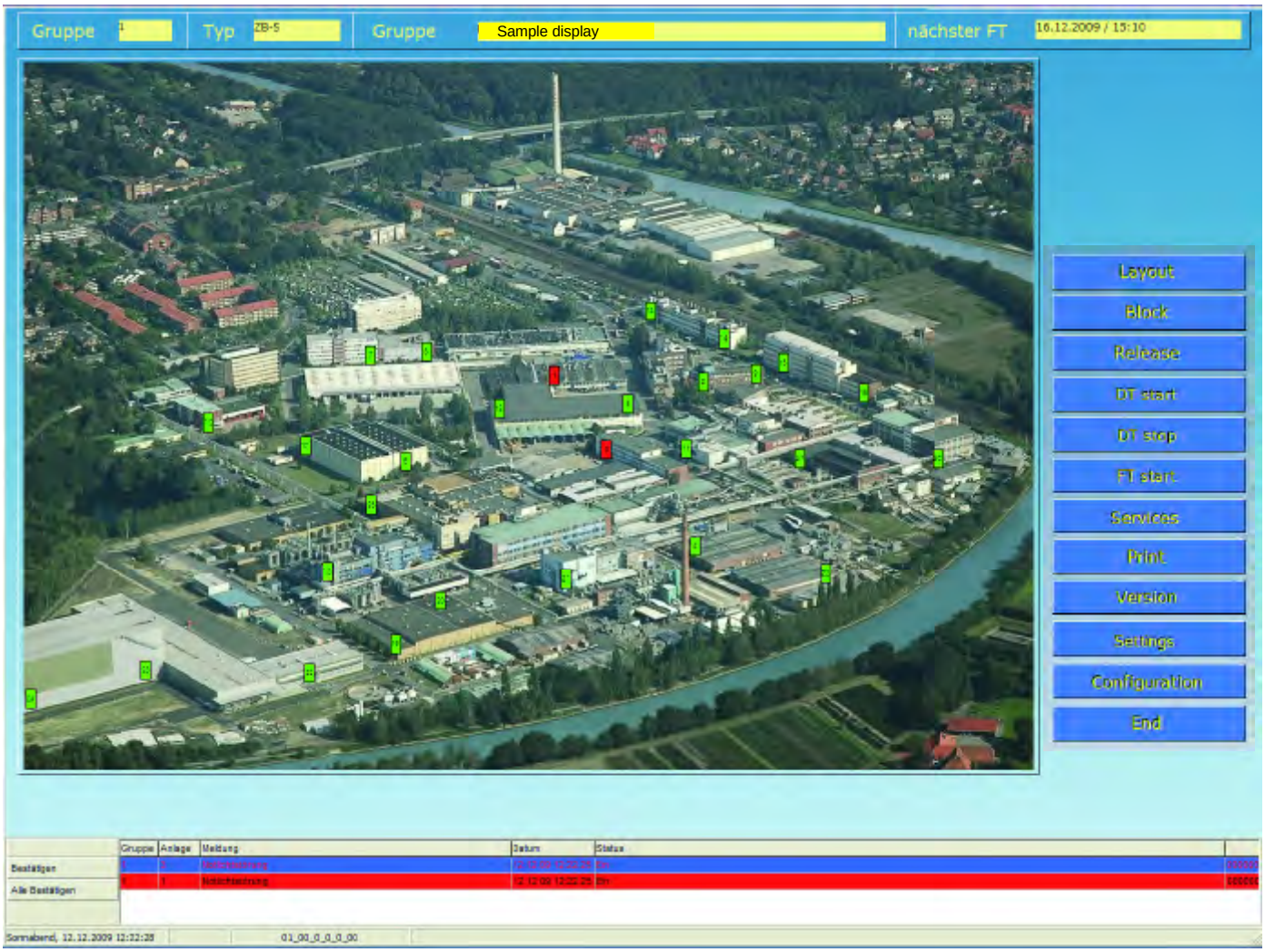
12 Layout programming

12.1 Layout programming of devices

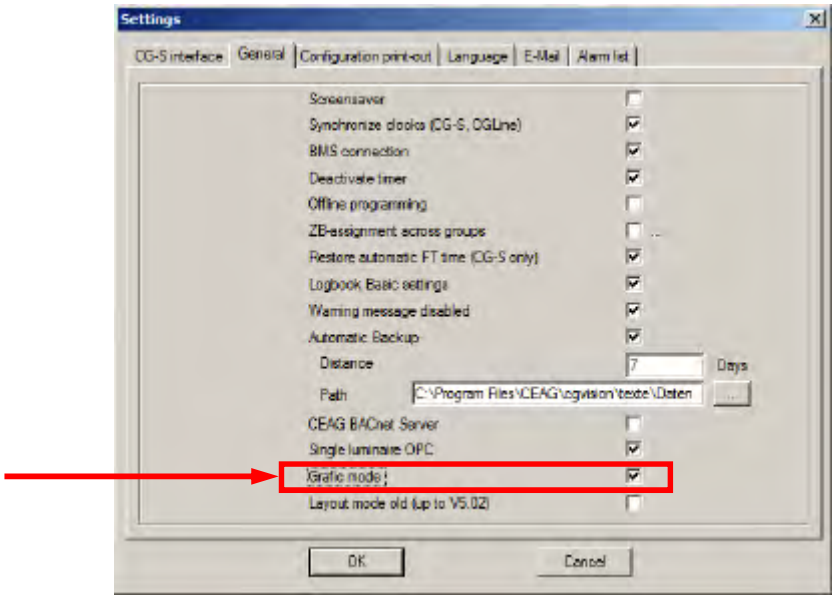
12.1.1 General information on layout programming of devices

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:



12.1.2 Activating the layout programming for devices

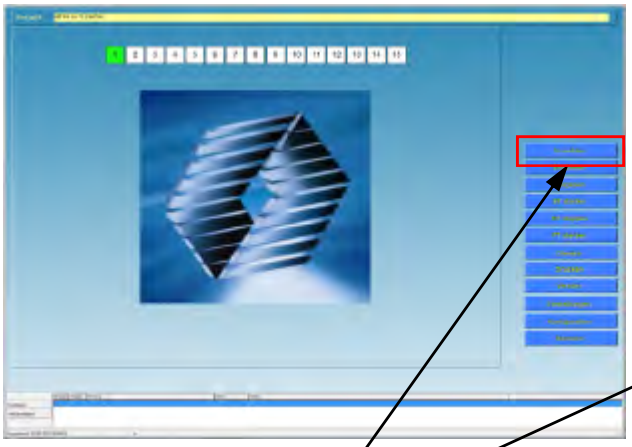
The function for layout programming for devices must firstly be activated in CGVision. This is implemented via the 'settings' menu in the main group screen, in the 'General' tab:

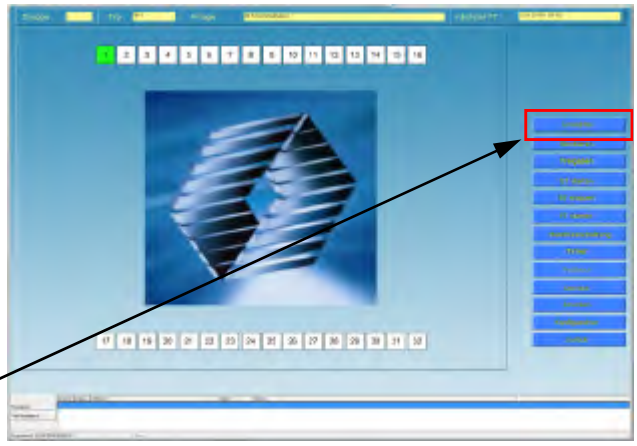


Graphic mode is now activated for the main group screen and the system group screens.
The main group screen or system group screens are now displayed as graphics. You can alternate between graphic mode and classic display via the 'layout' button with the right mouse button:

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

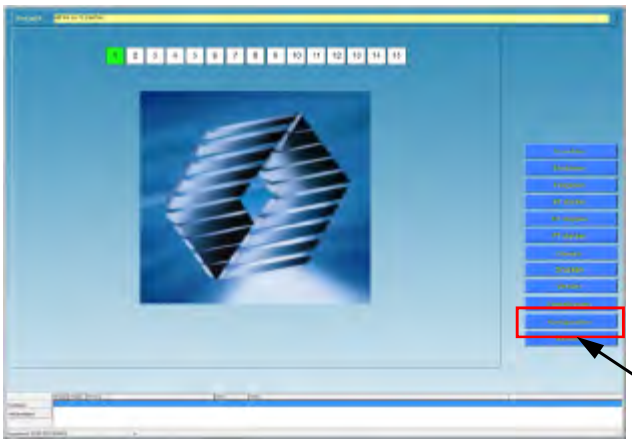
Graphic mode (start screen) of the **system group screen:**



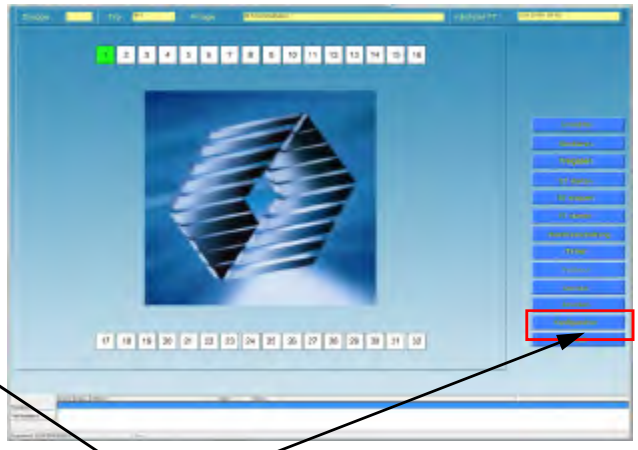


The right mouse button is used to alternate between graphic mode and normal display

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

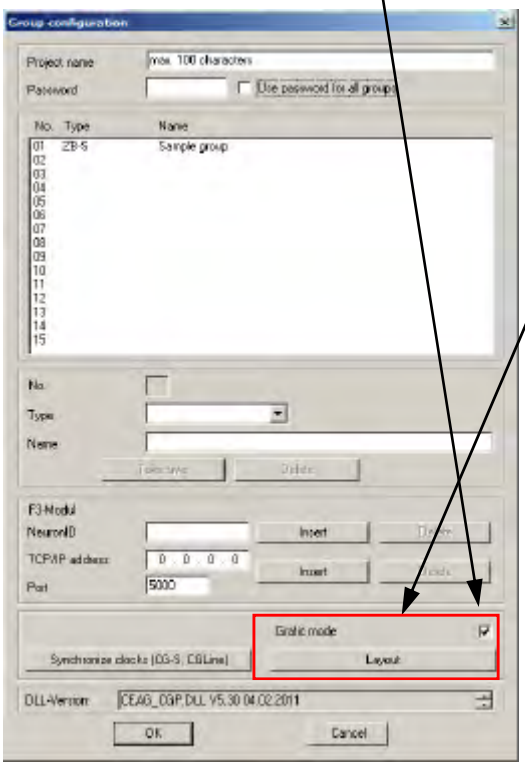


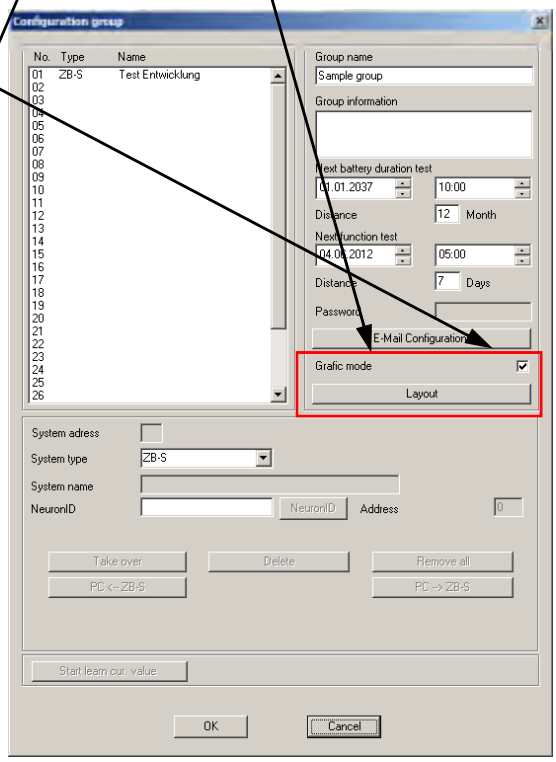
Graphic mode (start screen) of the **system group screen:**



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 <u>main group screen:</u> (see 12.1.3)

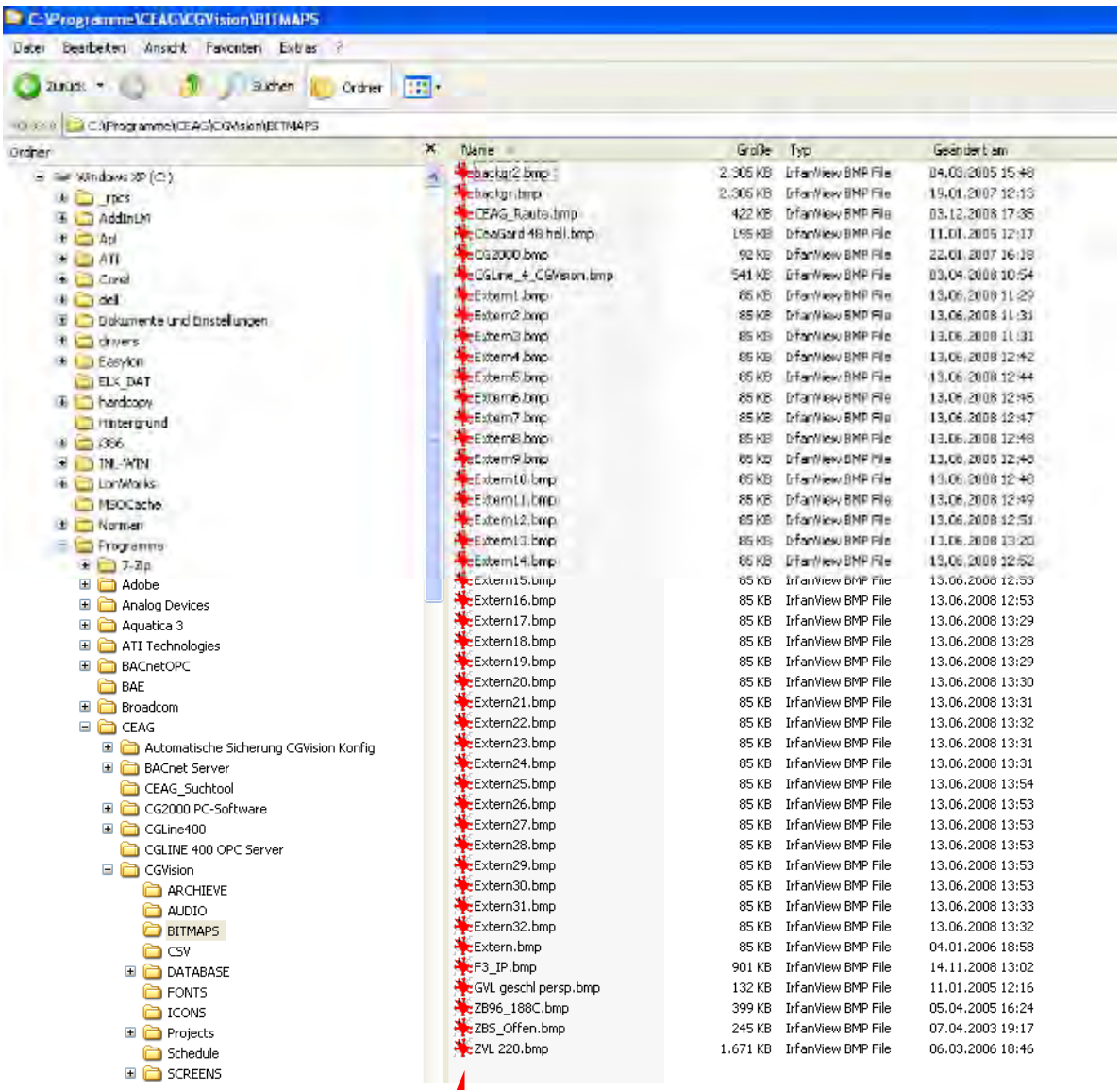
To layout programming (graphics tool) of the <u>system group screen</u>: (Example system group 1) (see 12.1.4)

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:

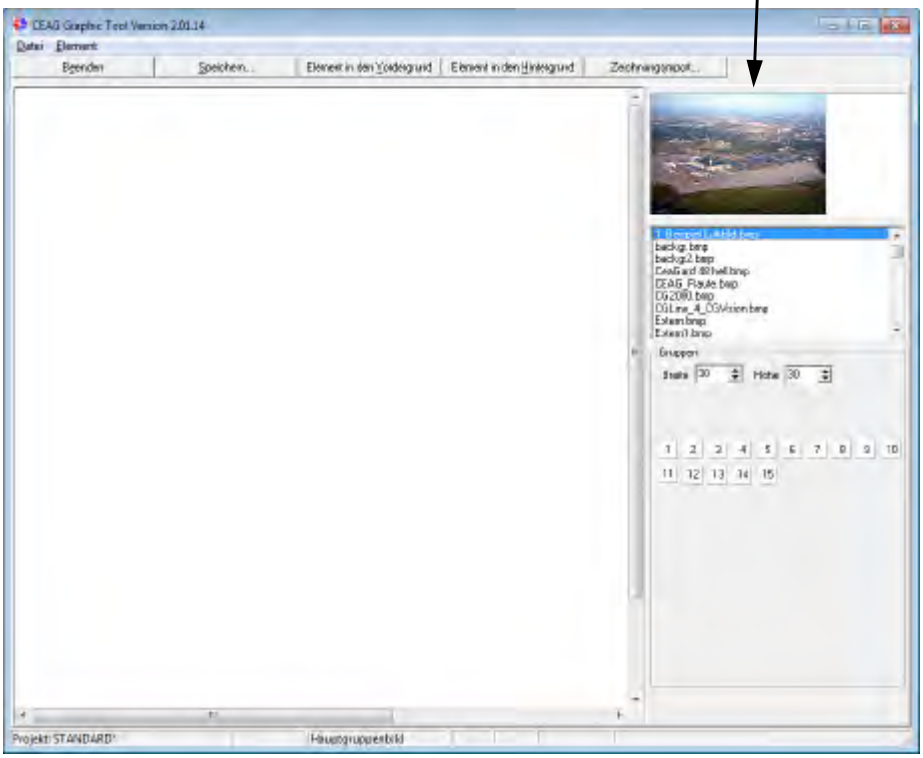
C:/Programs/CEAG/CGVsion/BITMAPS



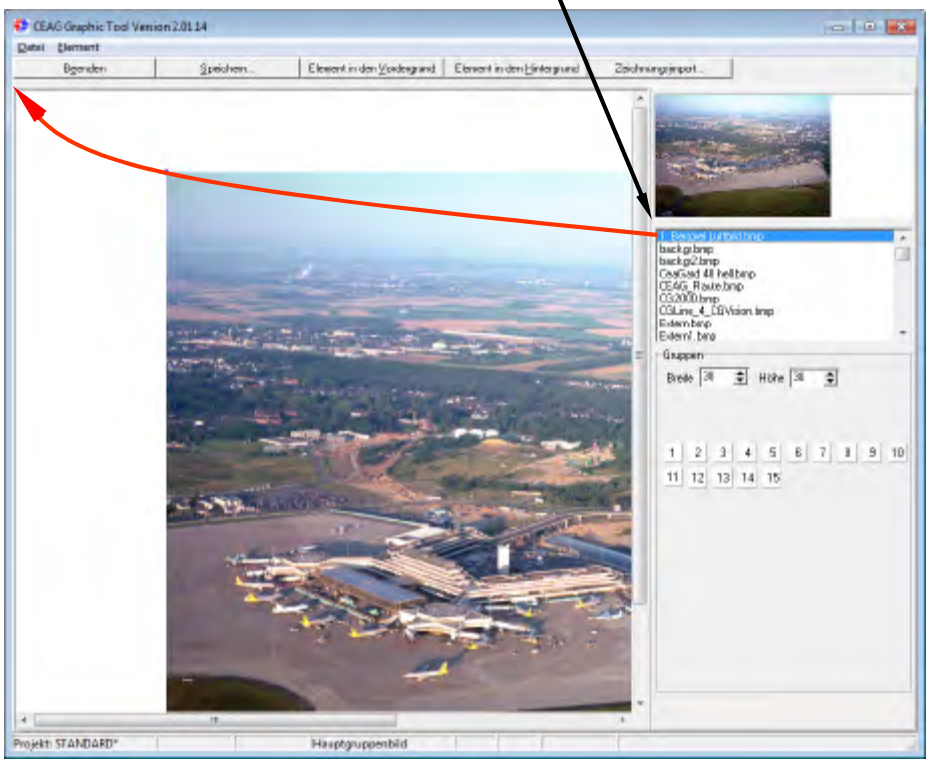
The existing images in this folder are the CGVision system files. These should not be deleted or moved.

Layout programming can begin after all images have been copied to the target folder. Supplements or modifications can be subsequently carried out at any time.

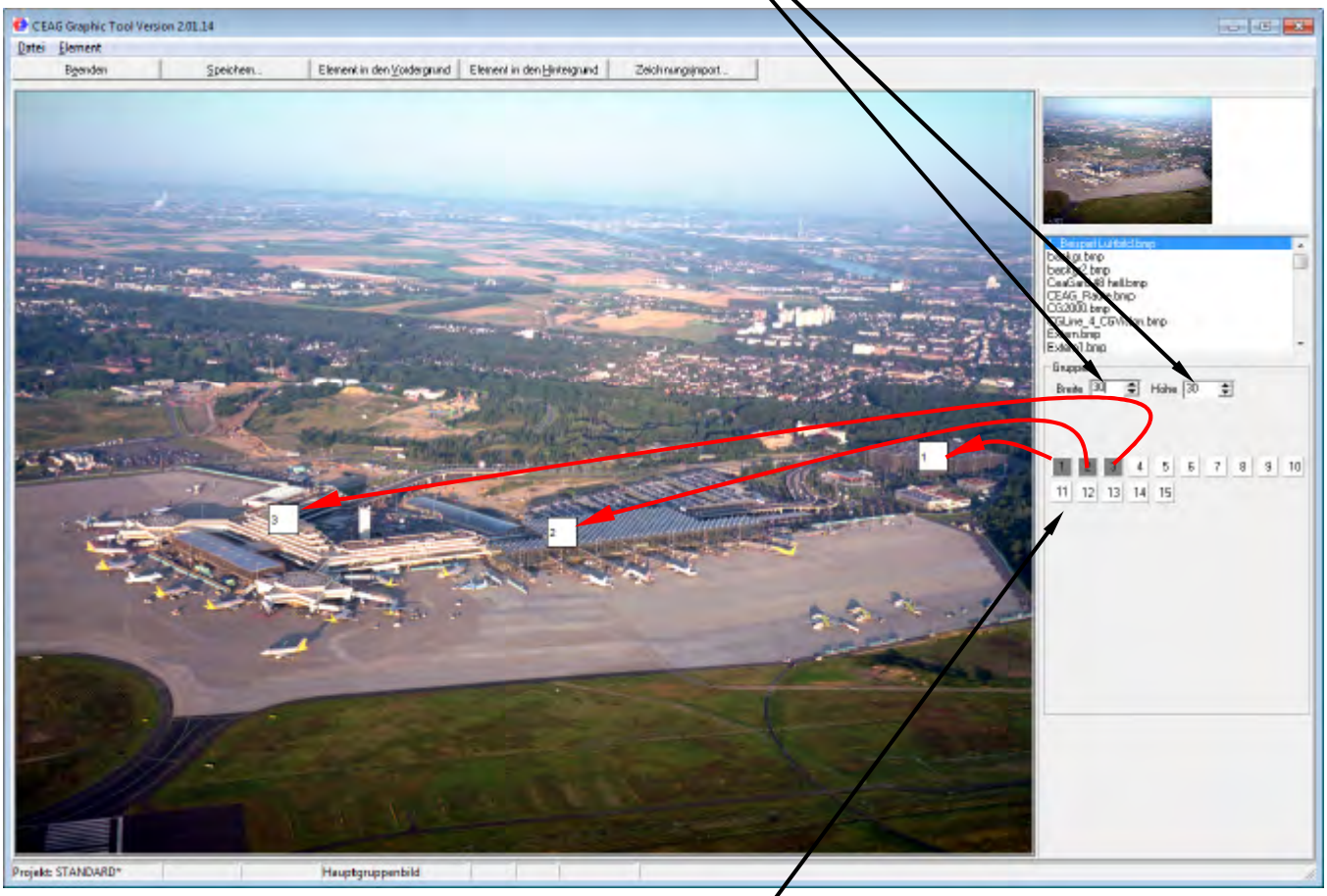
By clicking on 'Layout' in the configuration menu, the CEAG graphics programme opens for layout programming. The copied images appear in the selection list with preview:



After selecting the correct layout image, the image can be dragged into the top left corner of the formatted area by pressing the left mouse button (red line).
Corrections can be carried out at any time by clicking anywhere on the layout (press and hold) and dragging the layout to the desired position.



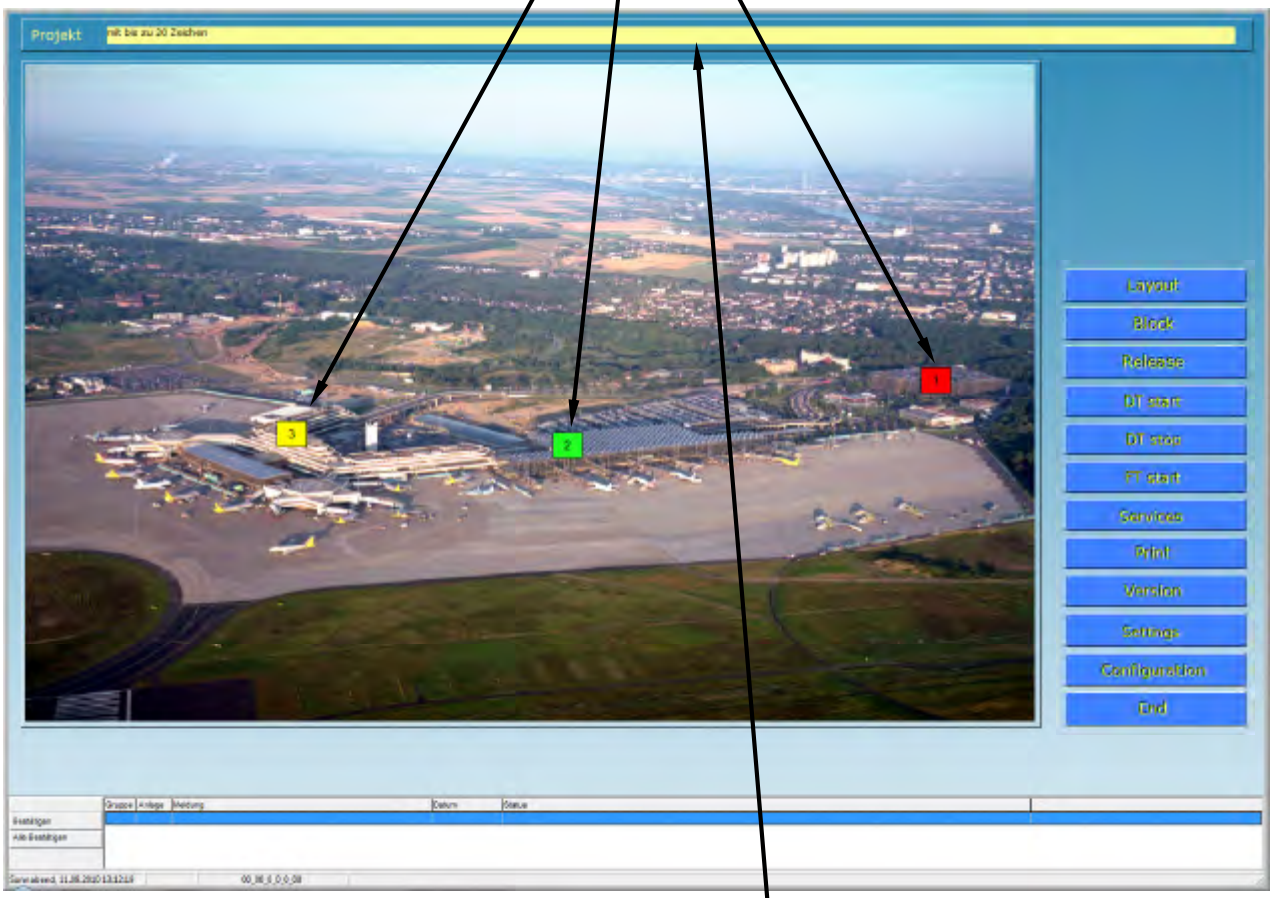
Using the selection fields, the 'width' and 'height' of the groups can be set <u>before</u> positioning the system group in the aerial view to achieve optimal size for the corresponding layout template. This should be tested initially.



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.

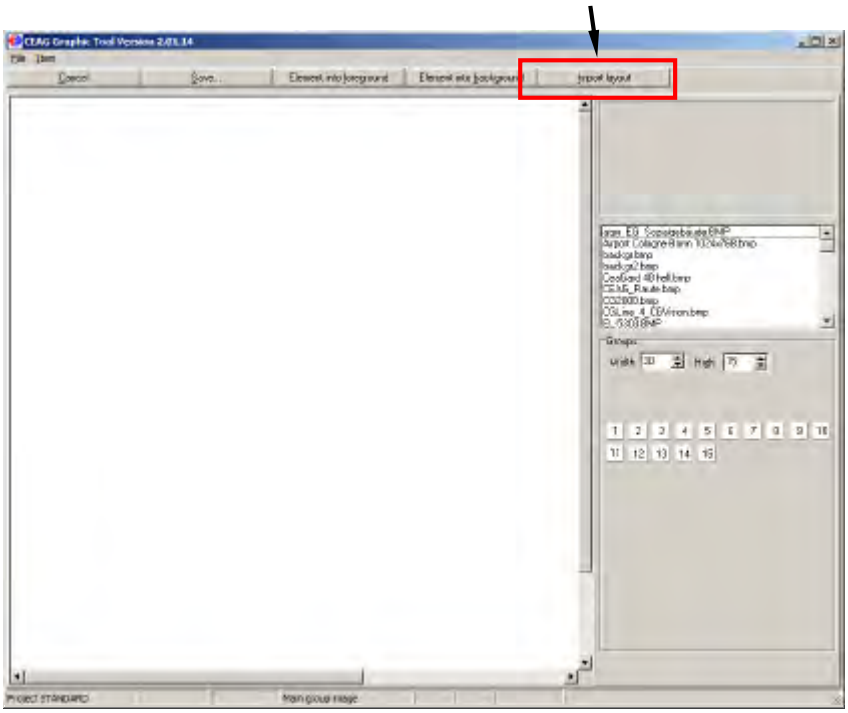
Green = all devices in this group in normal operation
Yellow = at least one system in the group is undergoing function test or duration test
Red = at least one device in the group has a fault
If the system group is clicked on, the corresponding system group screen is displayed.



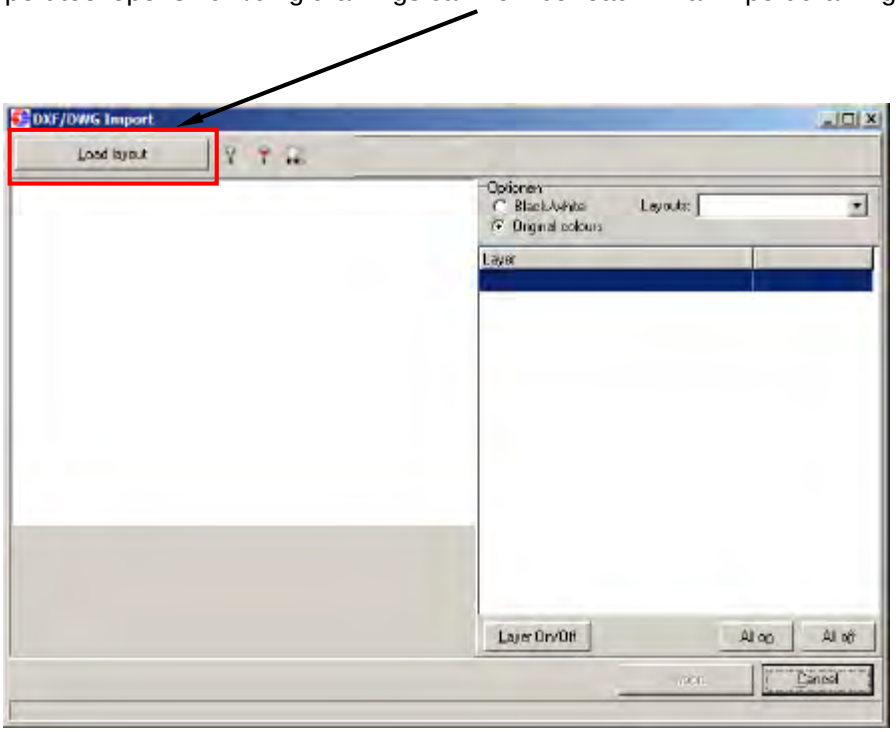
A better overview is achieved by using the explorer view (recommended) that can be started by clicking with the right mouse button on the yellow address bar.
See also Section 3 – Structure and basic operation.

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:



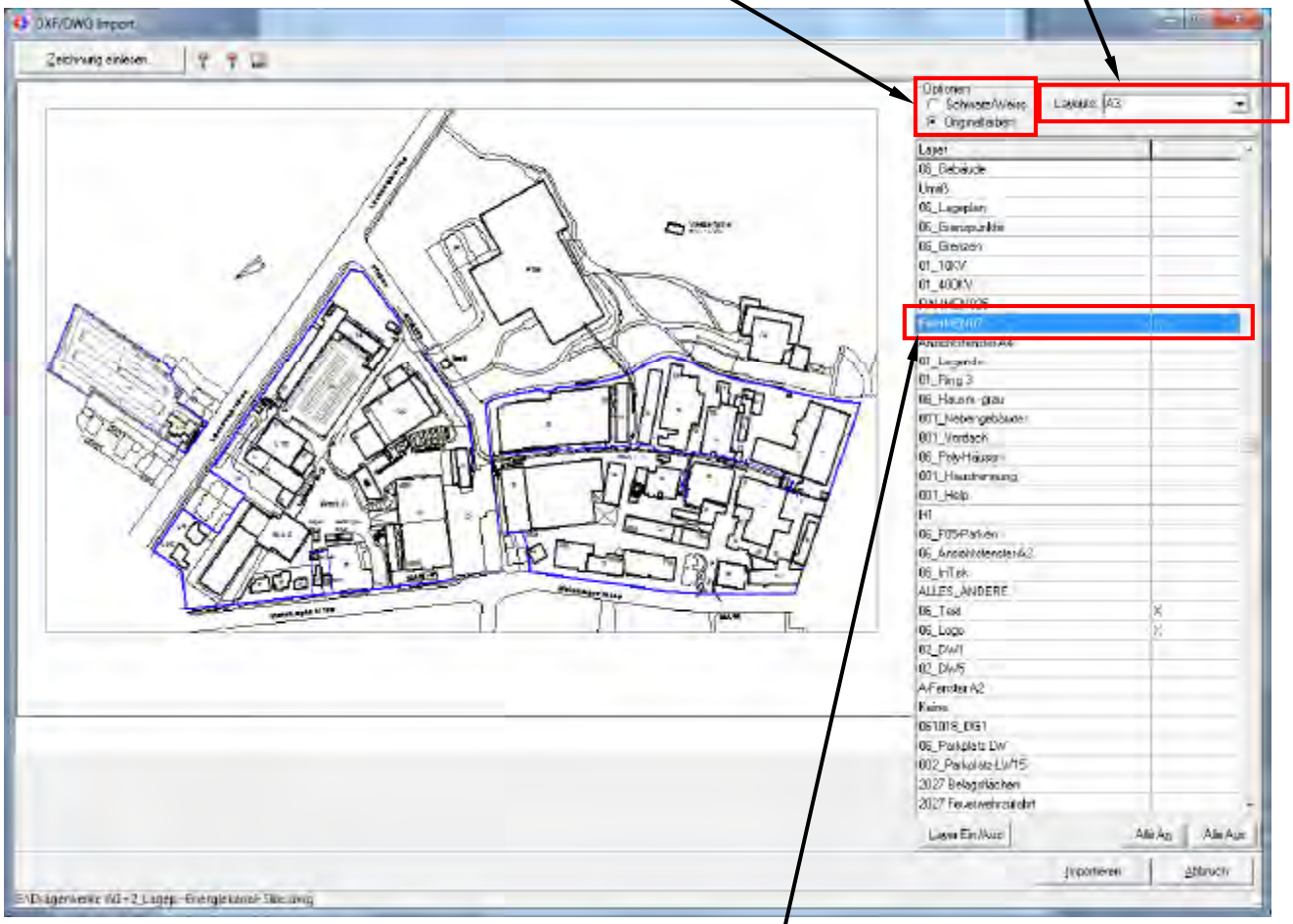
The DXF/DWG import tool opens. .dxf/dwg drawings can now be read in via 'Import drawing':



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

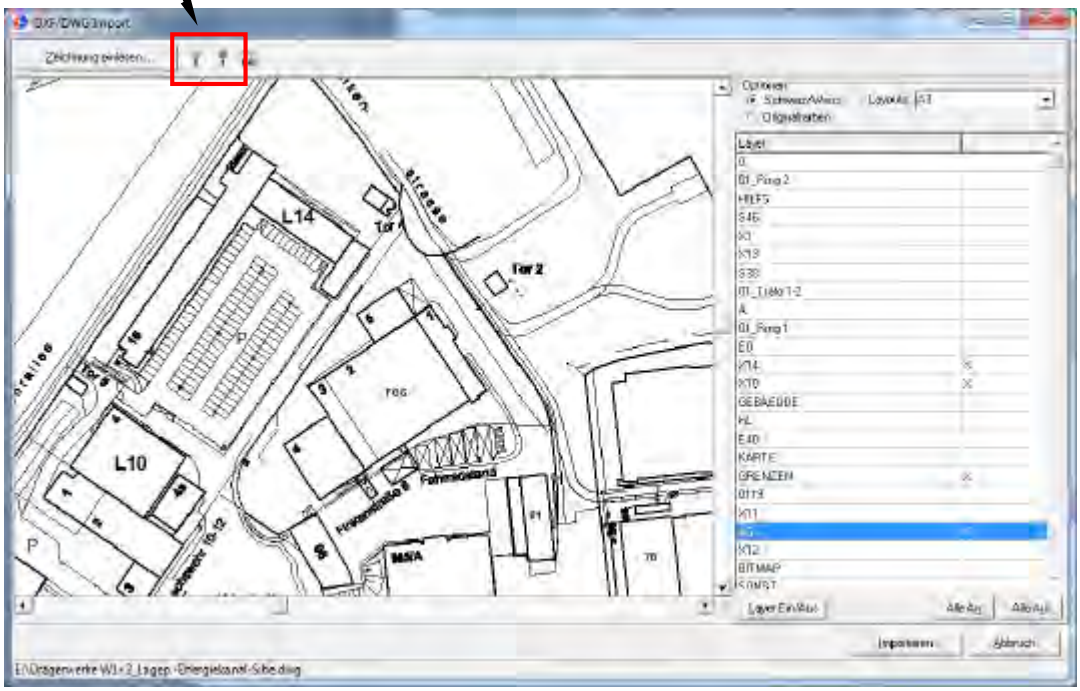
In the 'Layouts' selection field, a specific layout (if this exists) can be selected from the .dwg files.

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

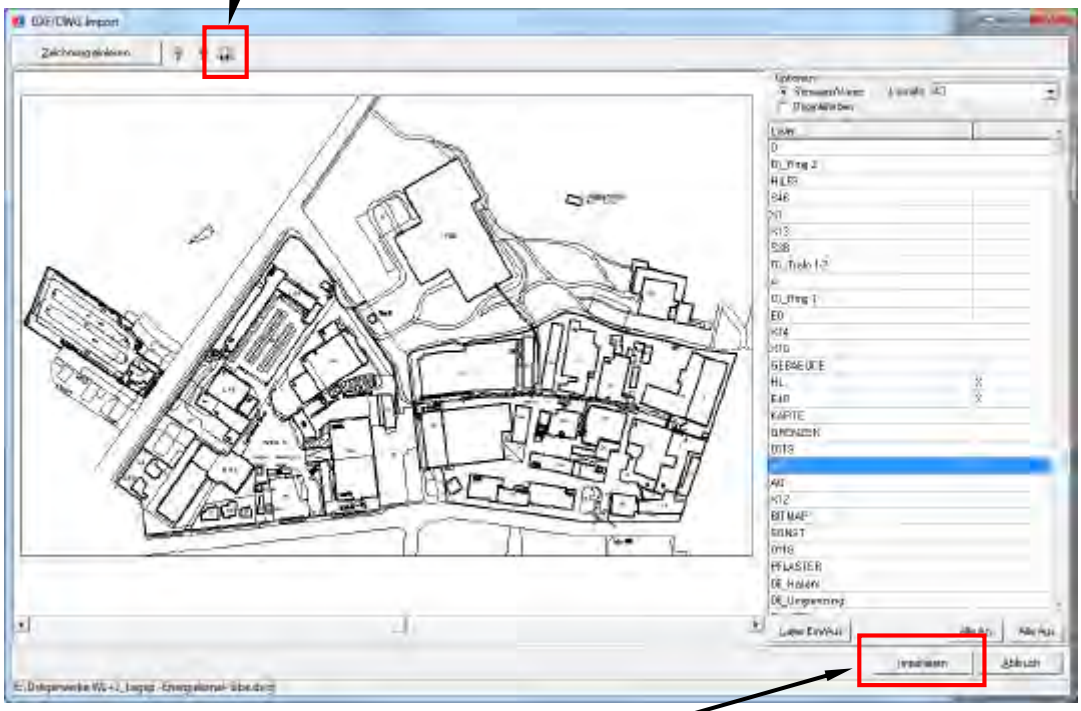


All available layers are listed in the area on the right, and these can be hidden or displayed via double clicking or via 'Layer On/Off'.
The hidden layers are designated with an X.

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

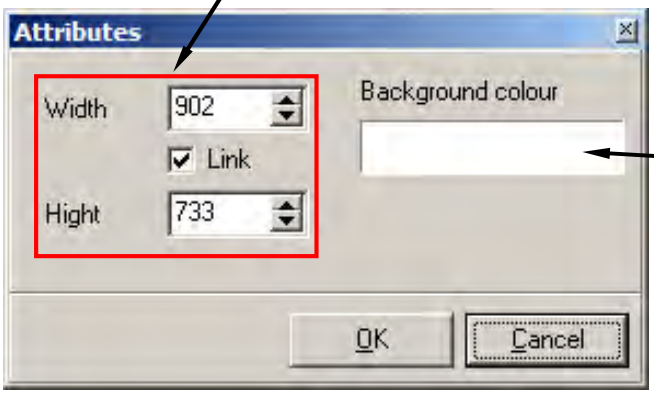


The complete drawing is displayed again with the right image magnifier symbol.



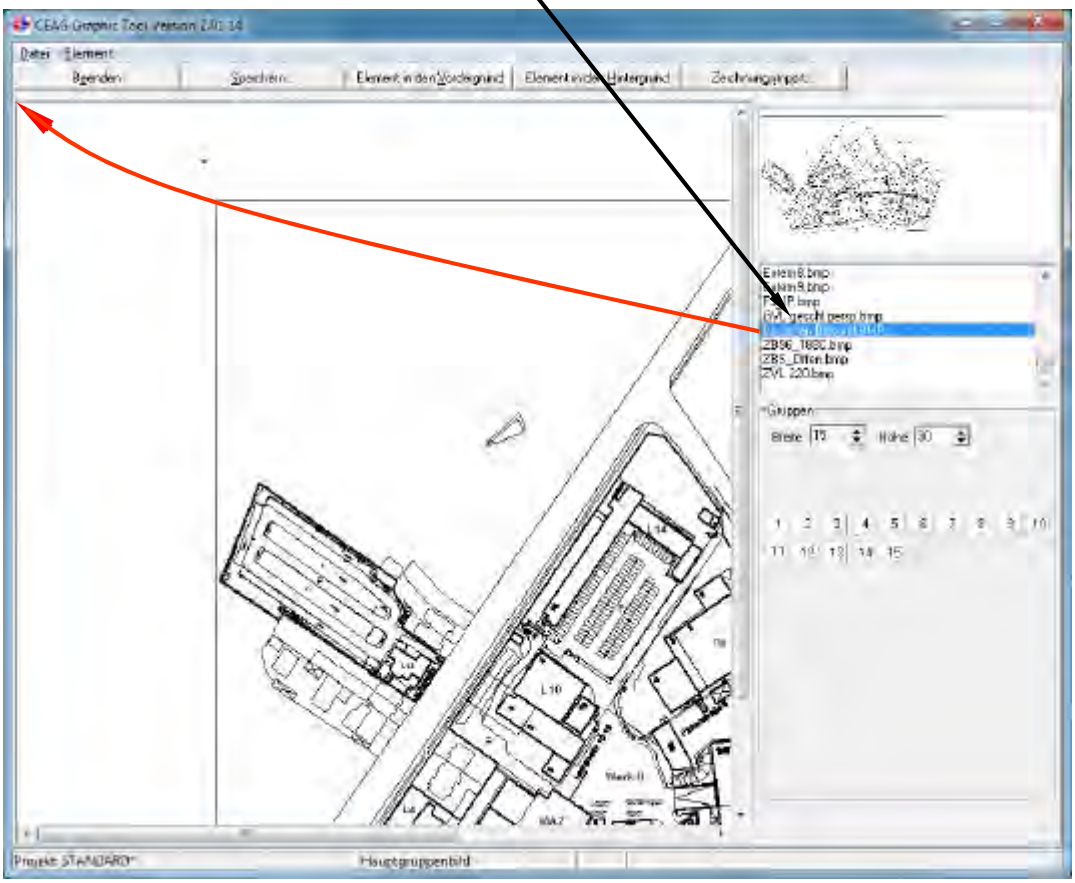
The suitable image is then loaded via 'Import'.

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.

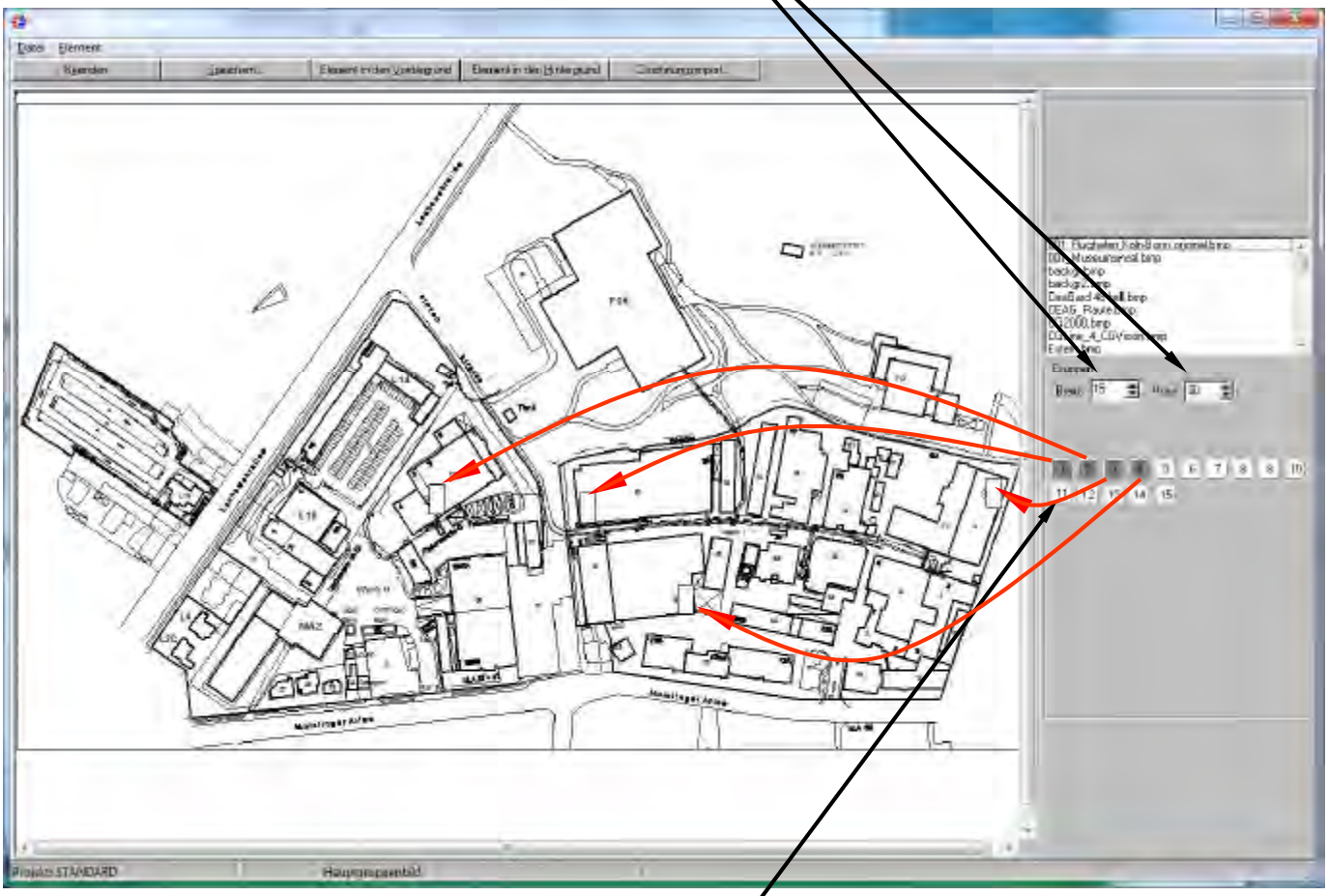


The image can be colour-highlighted for better contrast during import via 'Background colour'. (For this, the black/white option must have been specified previously).

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.



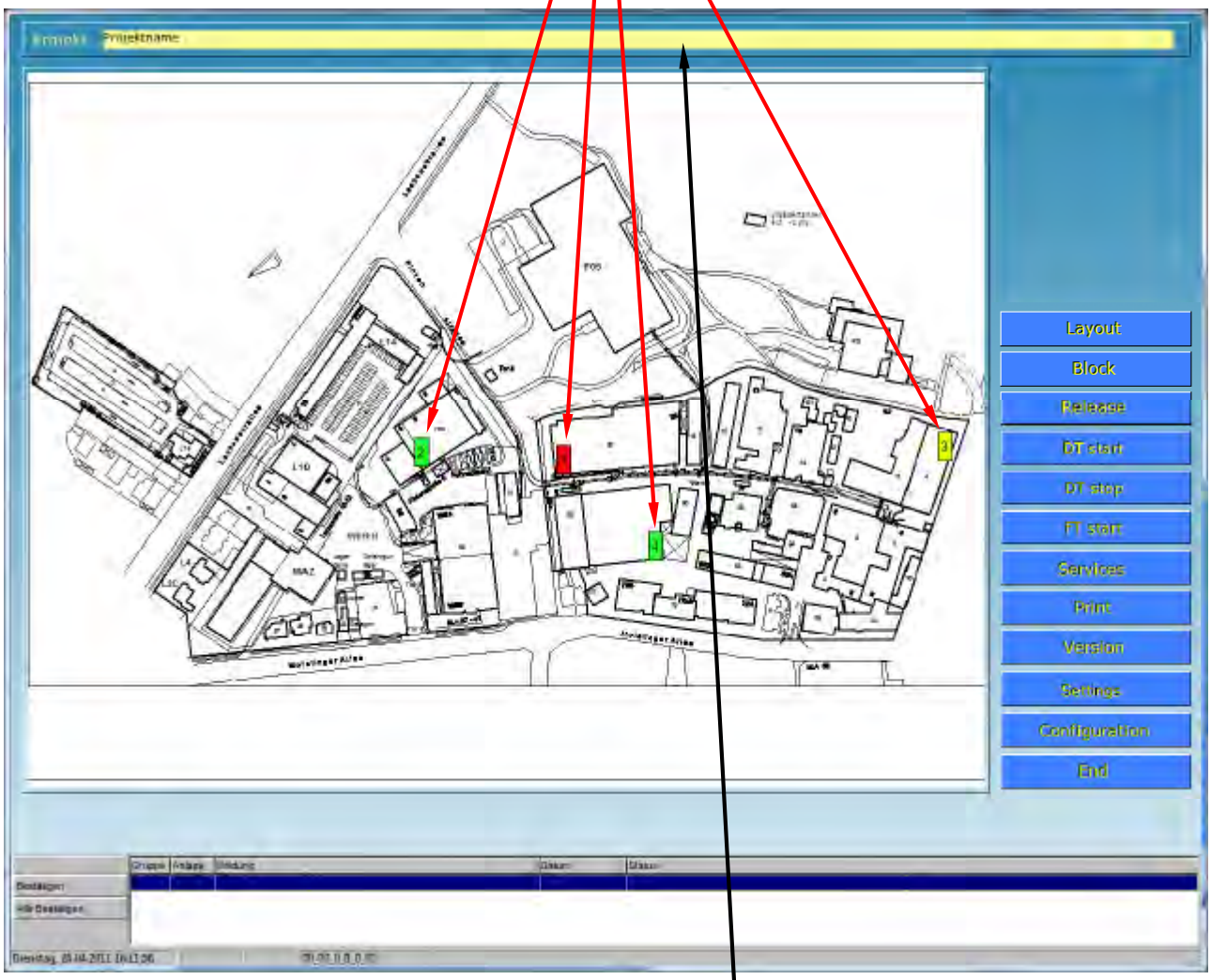
Using the selection fields, the 'width' and 'height' of the groups can be set <u>before</u> positioning the system group in the site plan to achieve optimal size for the corresponding layout template. This should be tested initially.



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.



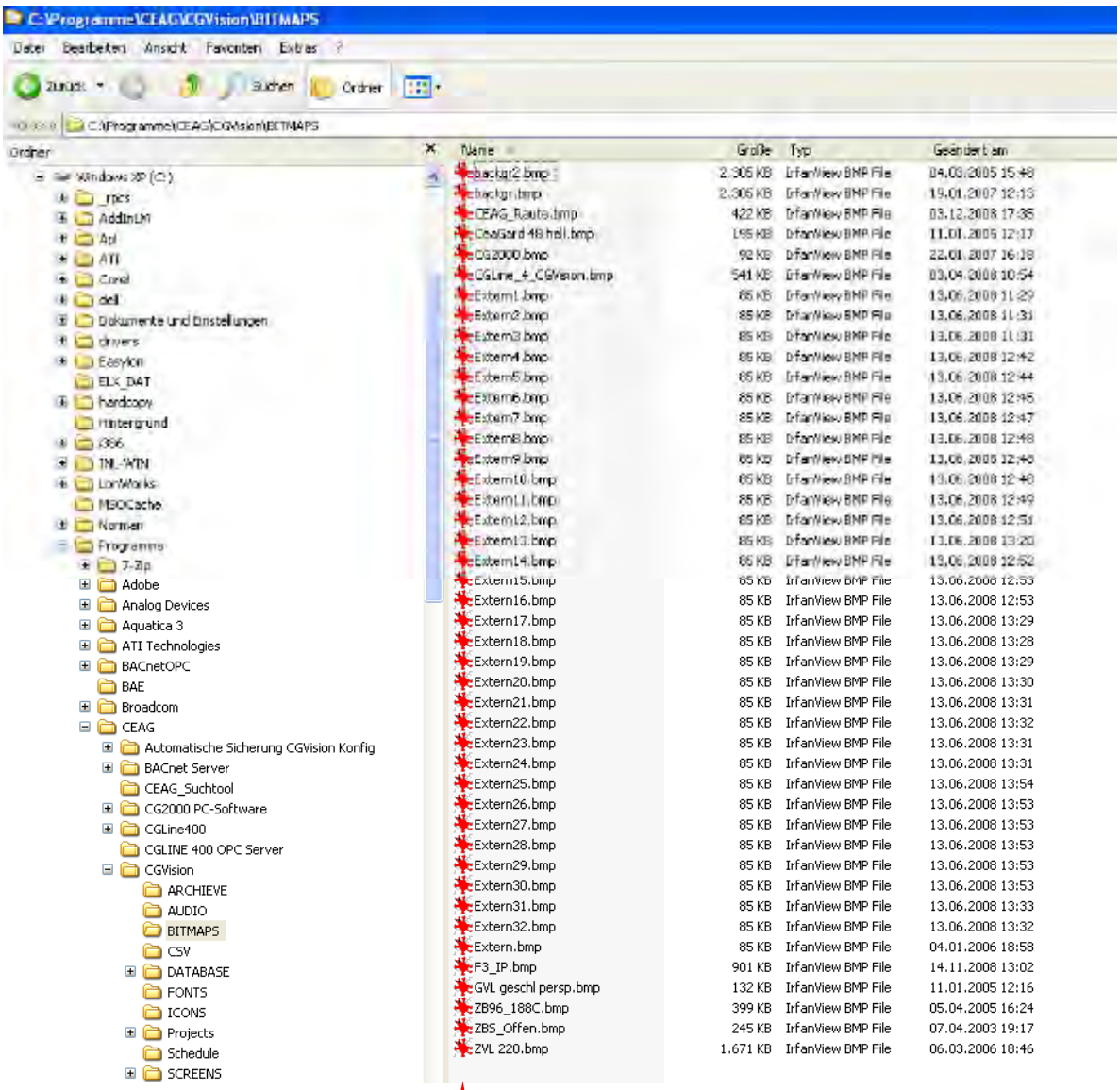
A better overview is achieved by using the explorer view (recommended) that can be started by clicking with the right mouse button on the yellow address bar.
See also Section 3 – Structure and basic operation.

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:

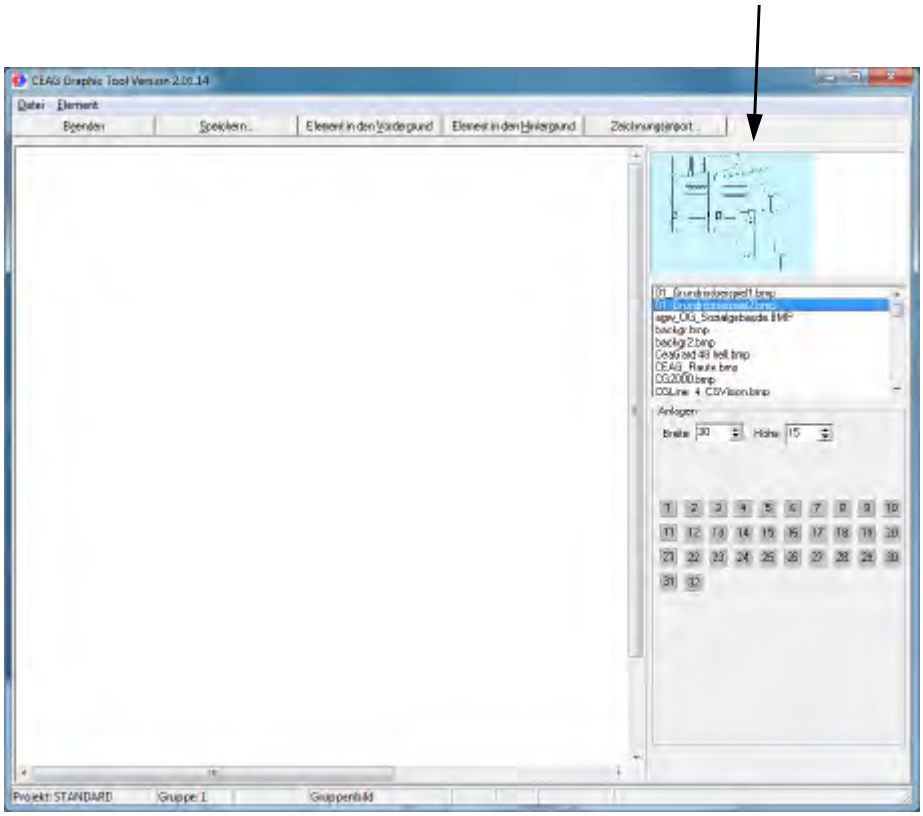
C:/Programs/CEAG/CGVision/BITMAPS



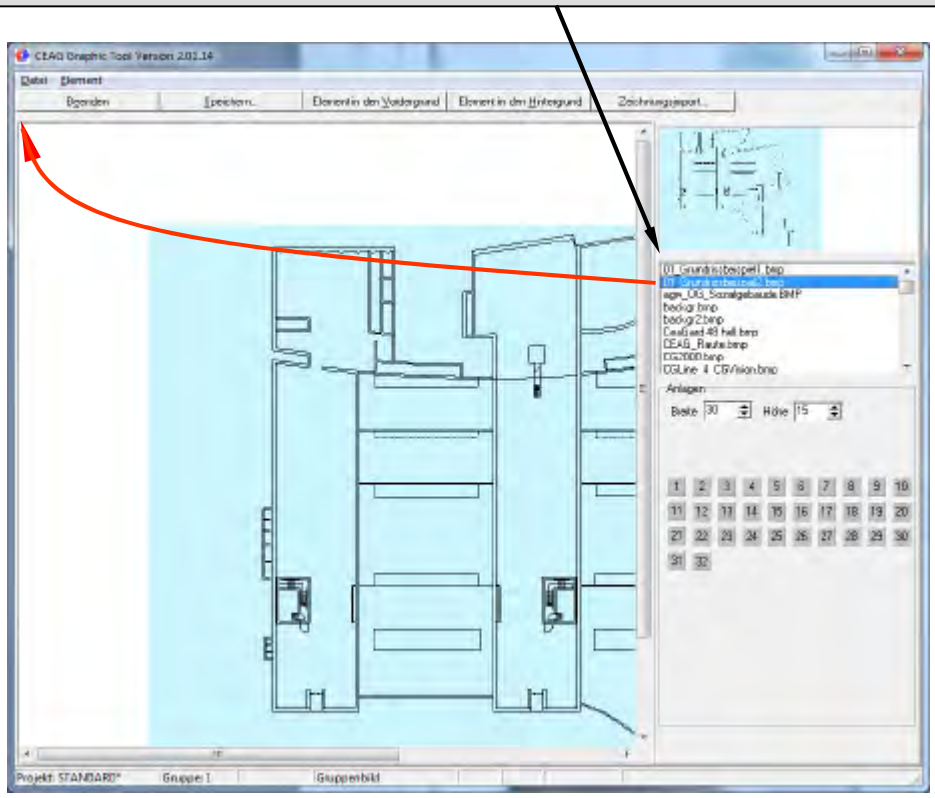
The existing images in this folder are the CGVision system files. These should not be deleted or moved.

Layout programming can begin after all images have been copied to the target folder. Supplements or modifications can be subsequently carried out at any time.

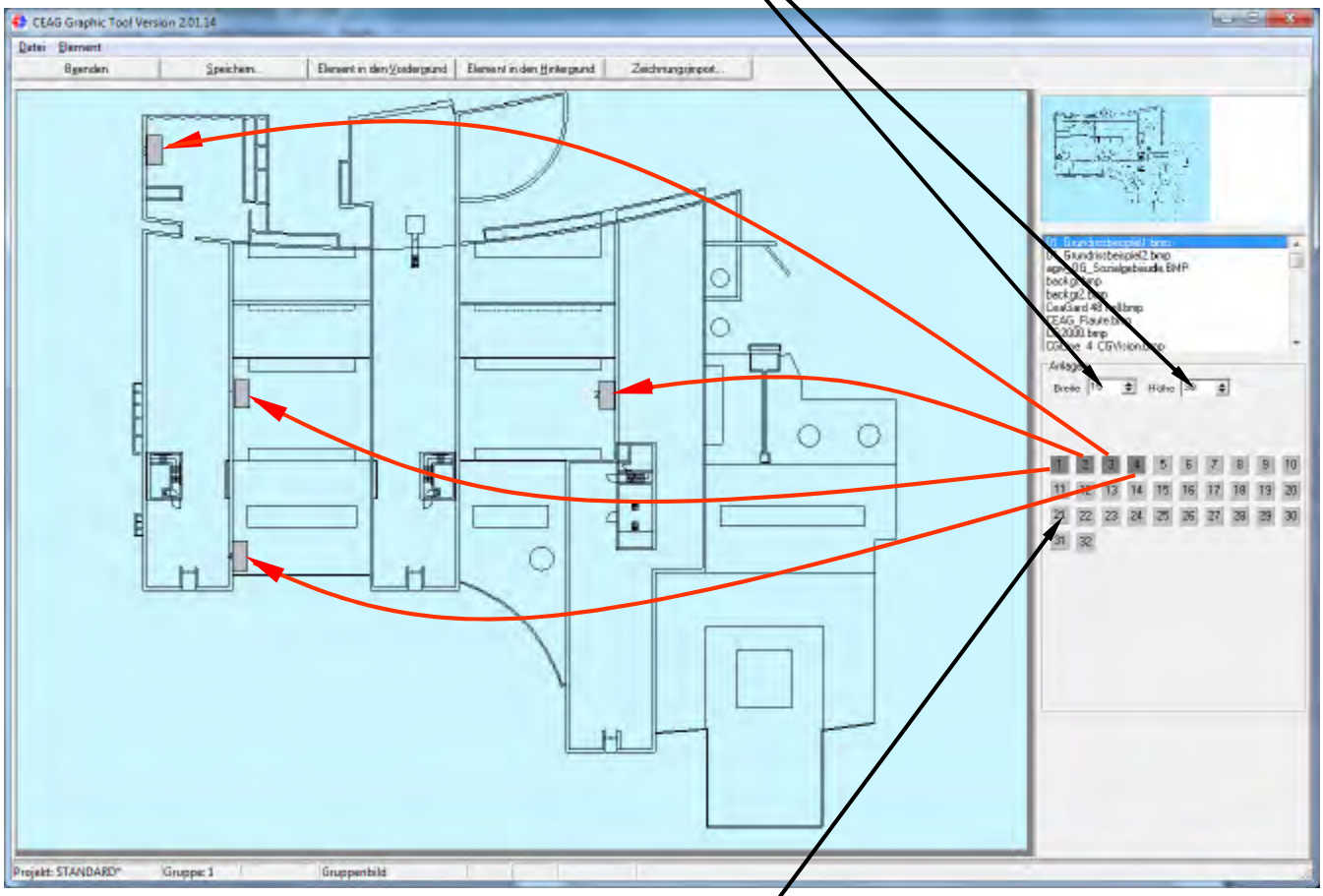
By clicking on 'Layout' in the configuration menu, the CEAG graphics programme opens for layout programming. The copied images appear in the selection list with previews:



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.



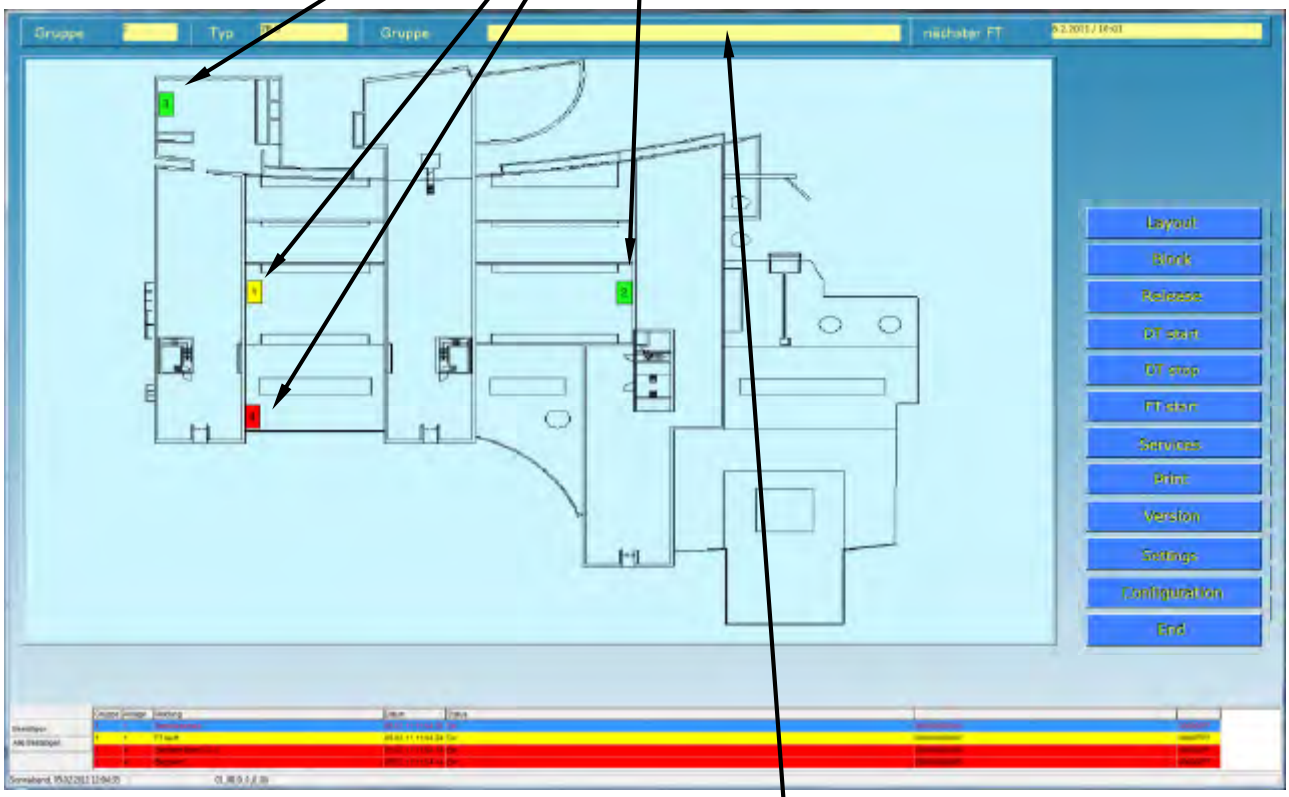
Using the selection fields, the 'width' and 'height' of the systems can be set <u>before</u> positioning the devices in the layout to achieve optimal size for the corresponding layout template. This should be tested initially.



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.

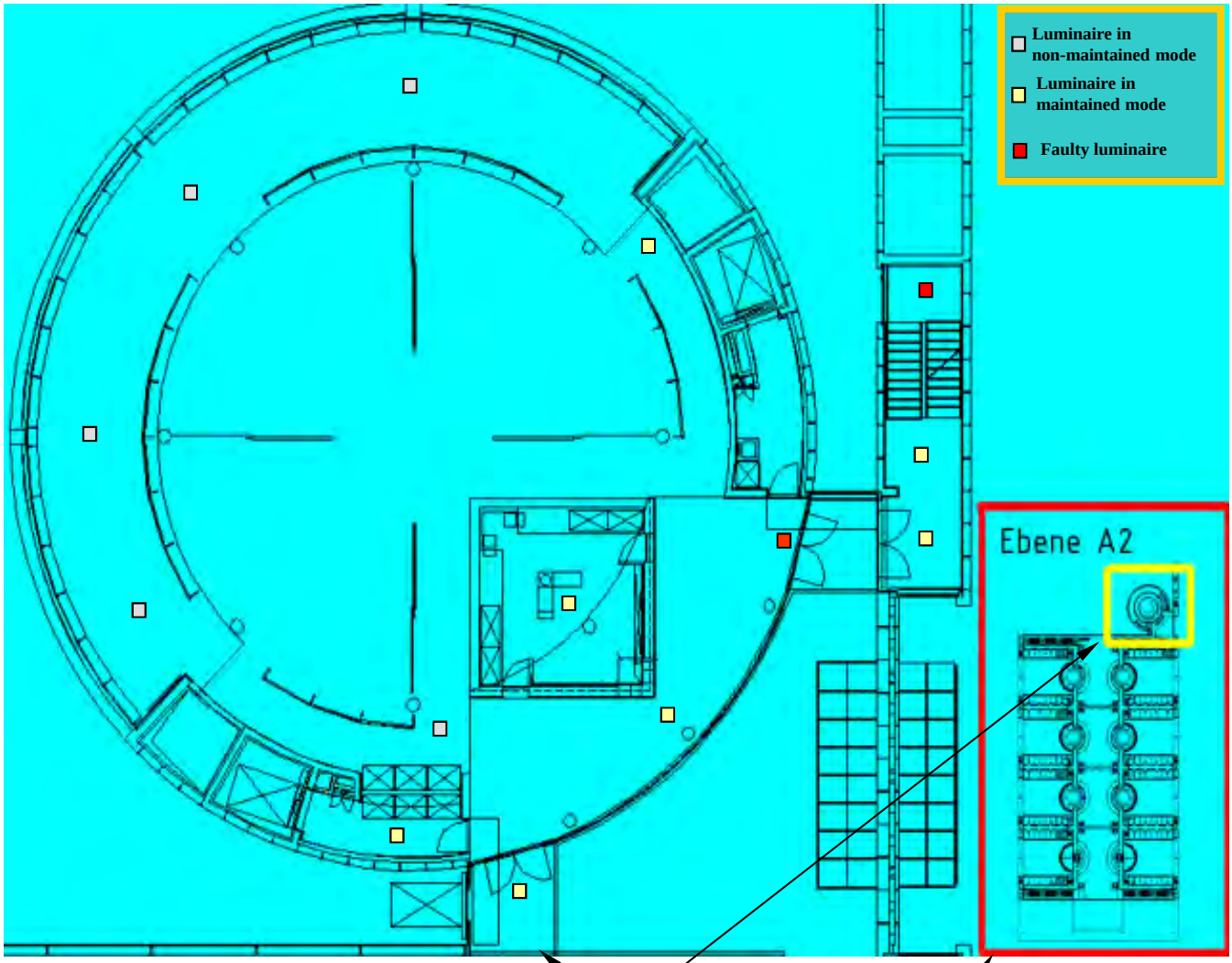
12.1.4.1 Layout programming of devices via .dwg/.dxf import

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:

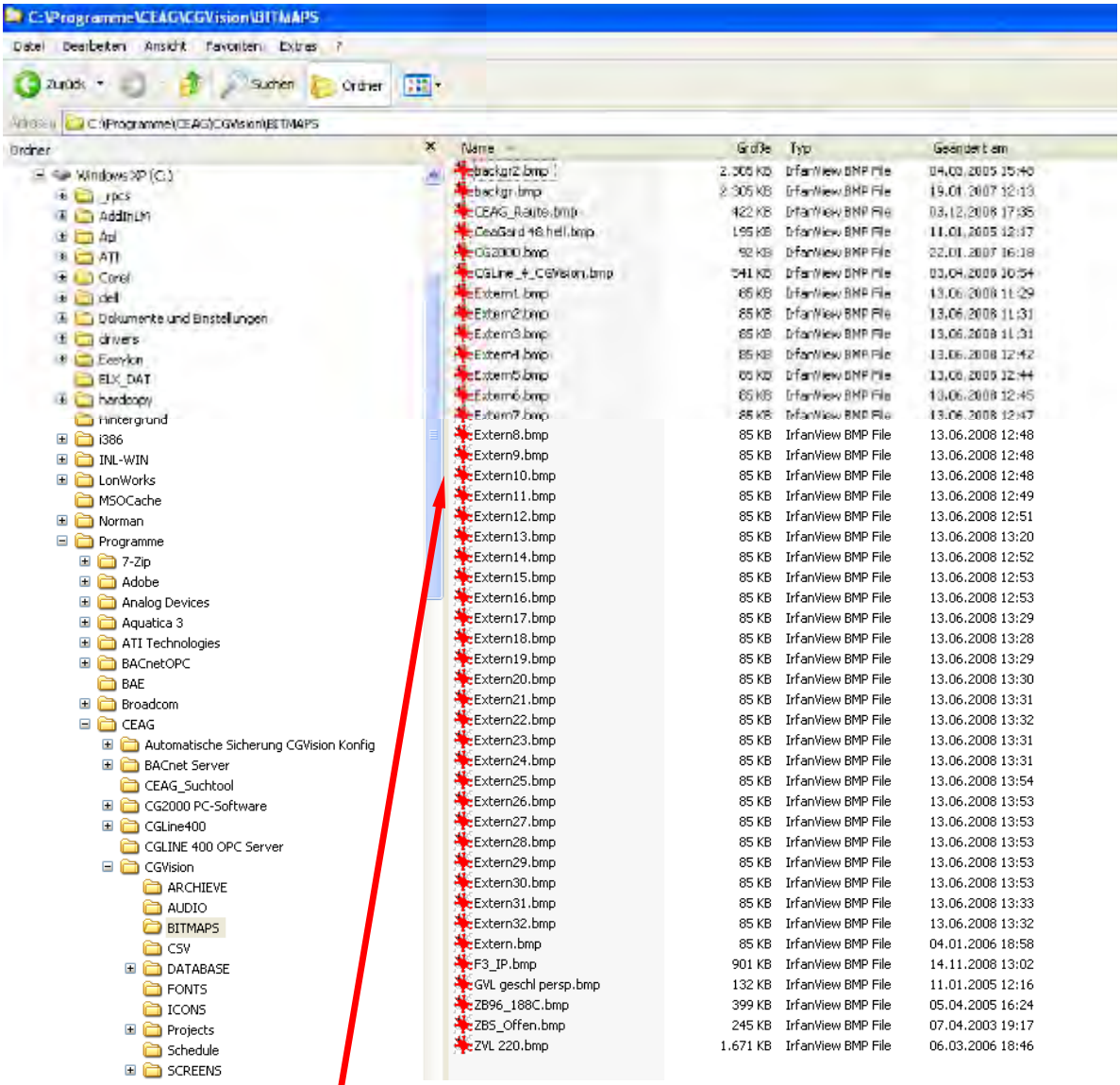


The section (framed yellow) corresponds to a sub-layout within a complete layout (framed red).

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:

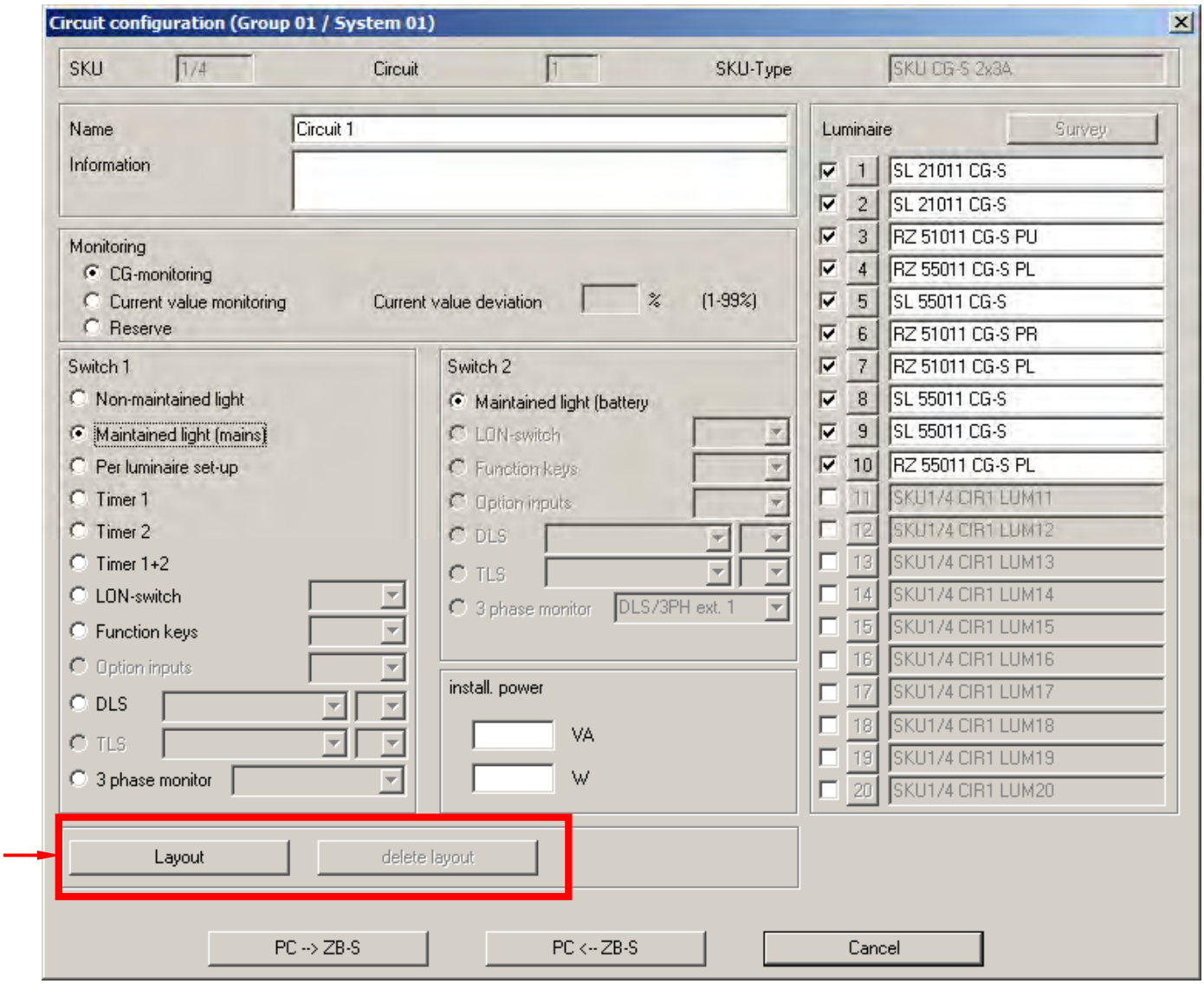
C:/Programs/CEAG/cgvision/BITMAPS



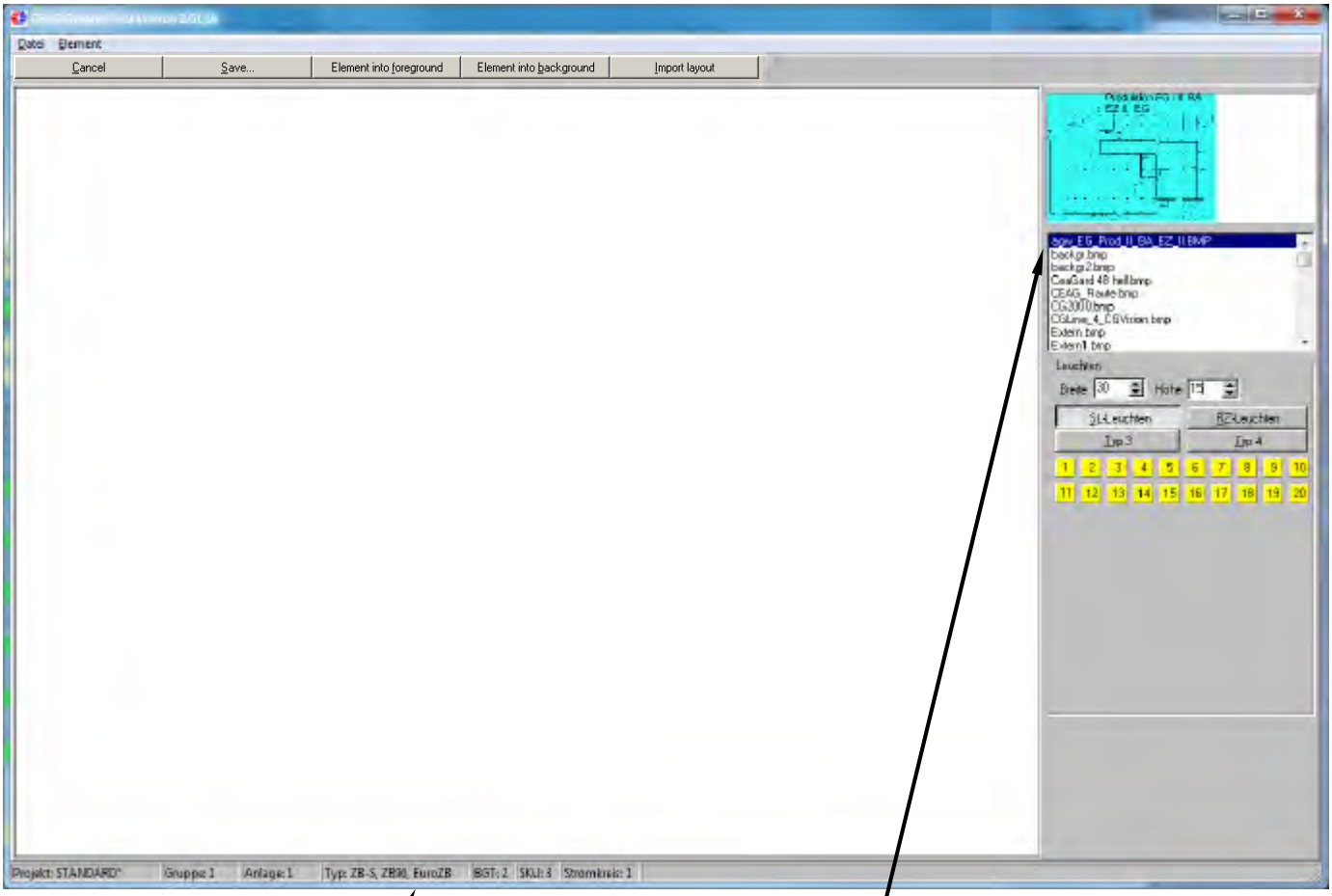
The existing images in this folder are the CGVision system files. These should not be deleted or moved.

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:

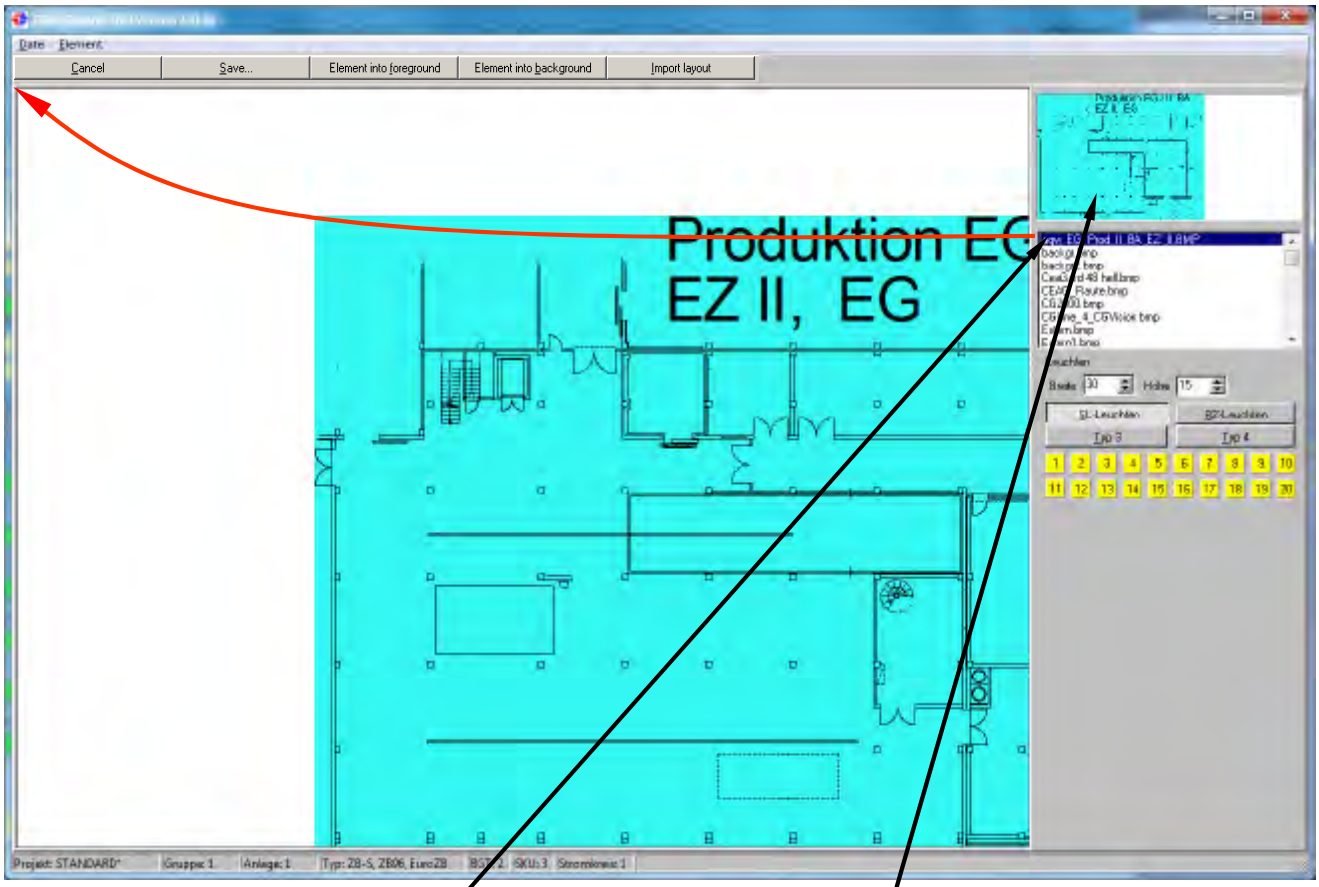


The following window opens:



The assignment of the circuit is shown at the bottom; here for example: system 1 in group 1, circuit 1 on rack 1 in circuit change-over module 7.

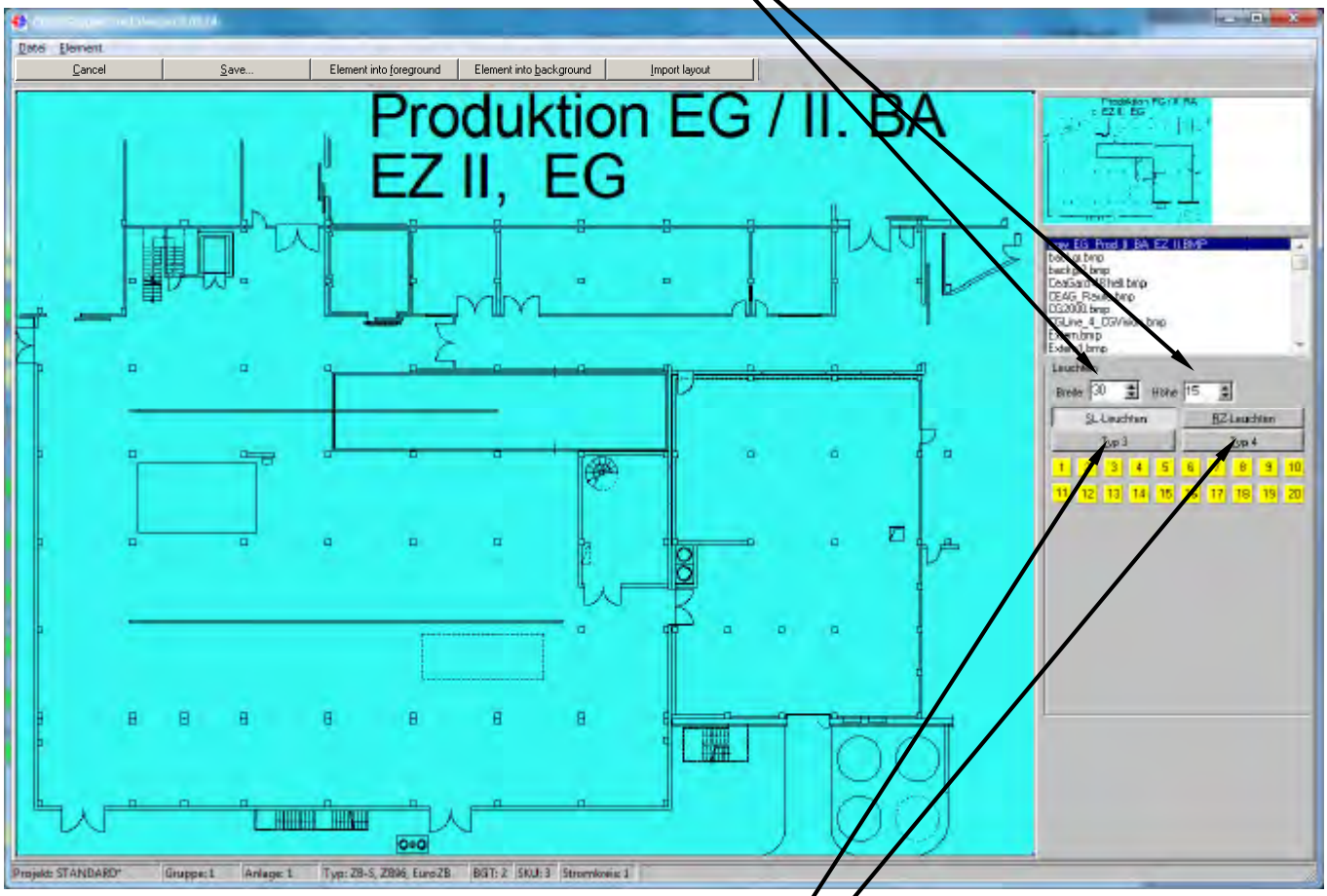
In this list all images are shown that were previously copied into 'Bitmaps. The corresponding image can be now dragged into the left layout graphic via the left mouse button.



After selecting the correct layout image, the image can be moved with the left mouse button in the free area into the upper left corner. (red line) Corrections can be made at any time by clicking the layout with the mouse at any position (keep mouse button pressed) and moving the layout to the desired position.

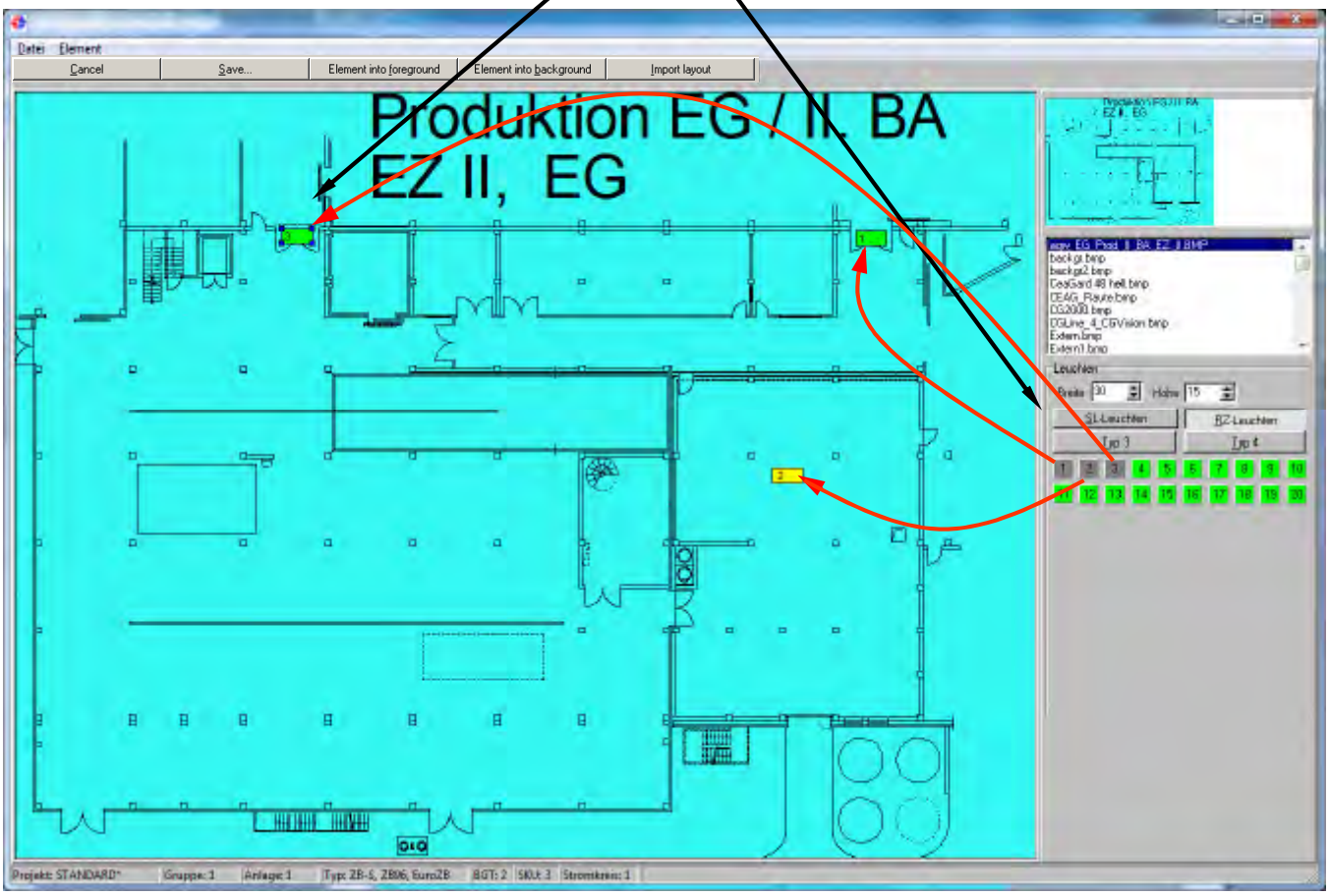
For selection and control of the correct image, the bitmap file appears after marking. The top window displays a miniature view of the layout.

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

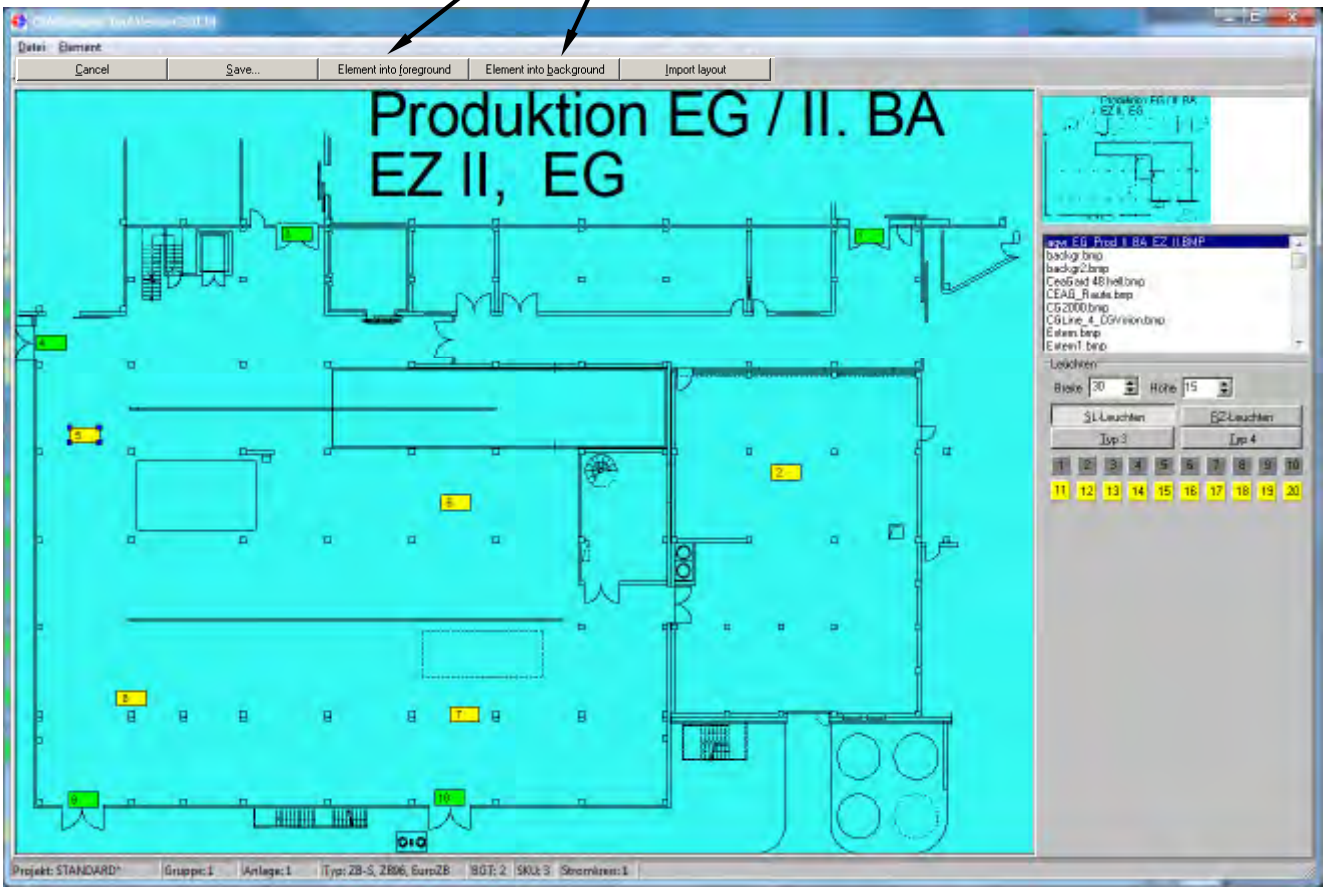


You can select between safety luminaires and escape sign luminaires via the 'SL luminaires' and ES luminaires' buttons. The safety luminaires are displayed normally in the layout later, and the escape sign luminaires as green pictograms.
After implementing the above pre-settings the luminaires can then be positioned.

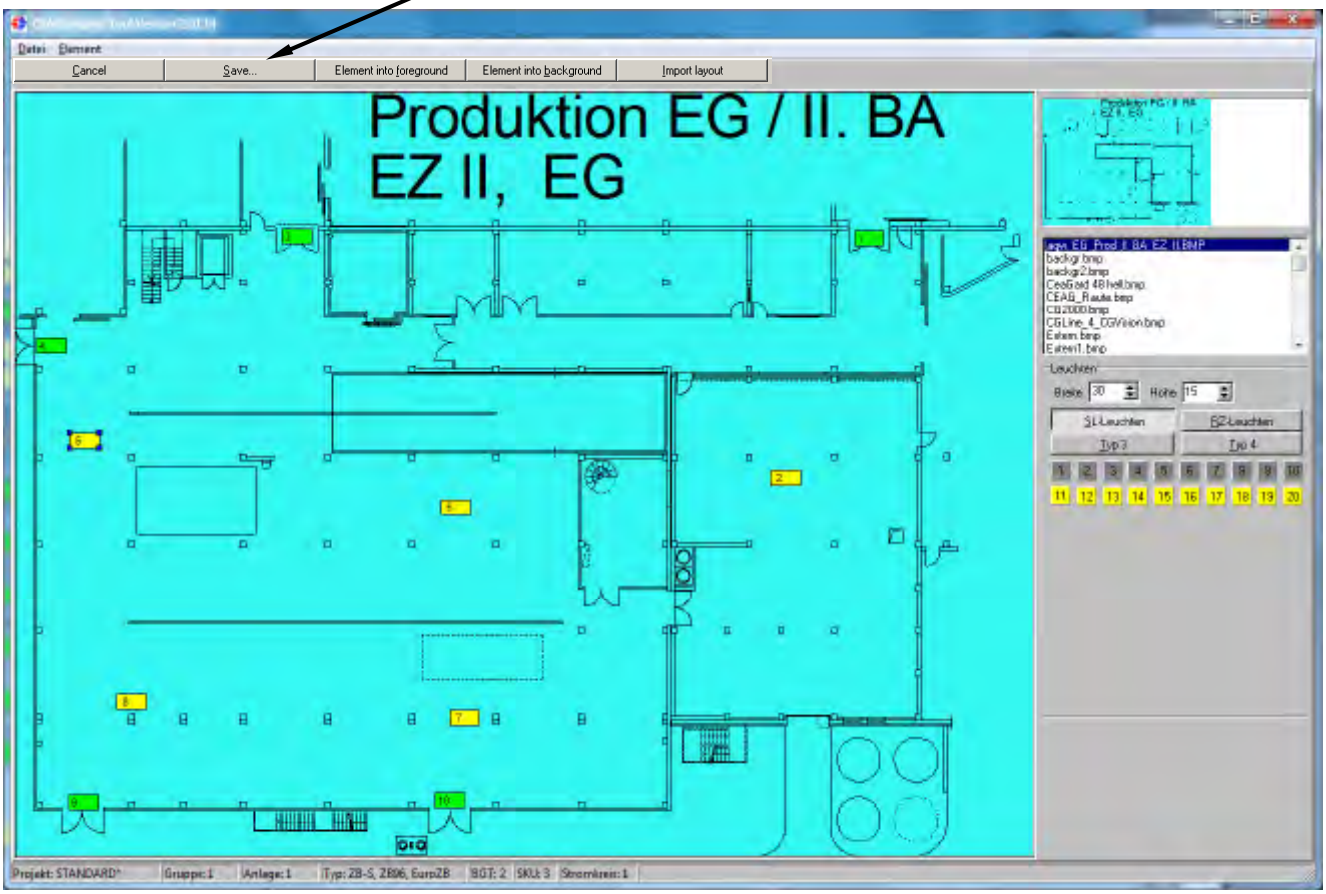
The luminaires can now be placed into their positions in the layout sequentially with pressed mouse button. Corrections can be made at any time by marking the luminaire (four blue corners) and moving with pressed mouse button. Luminaires can be deleted by pressing the 'Del' button; deleted luminaires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



The luminaires can be positioned in any sequence. It is also possible to import several small layout images. Image files can be placed in the foreground or background via the 'Element in the foreground' or 'Element in the background' buttons.

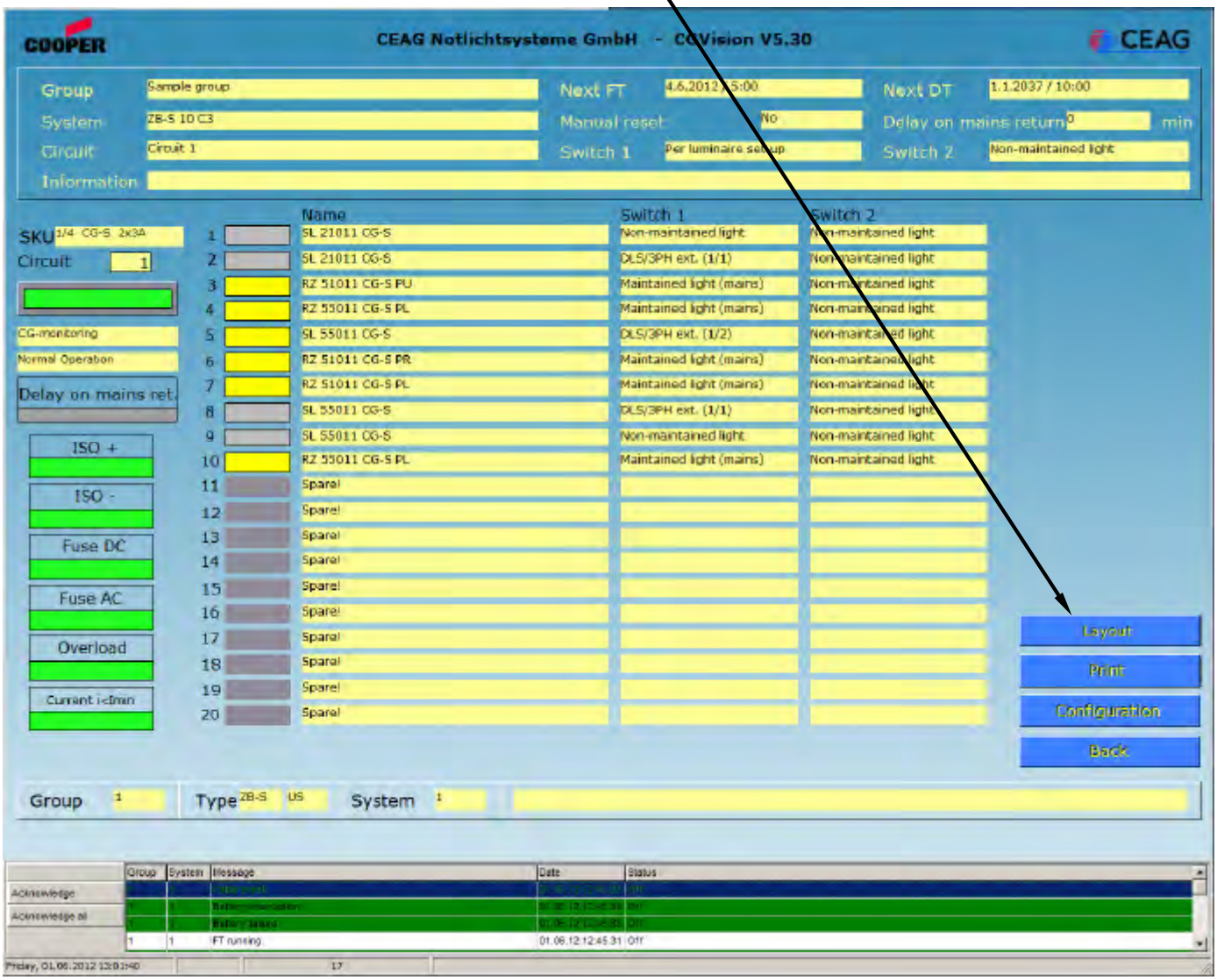


After positioning all luminaires, the programming must be saved via the 'Save' button. Subsequent modifications can be carried out at any time by calling up again and saving.

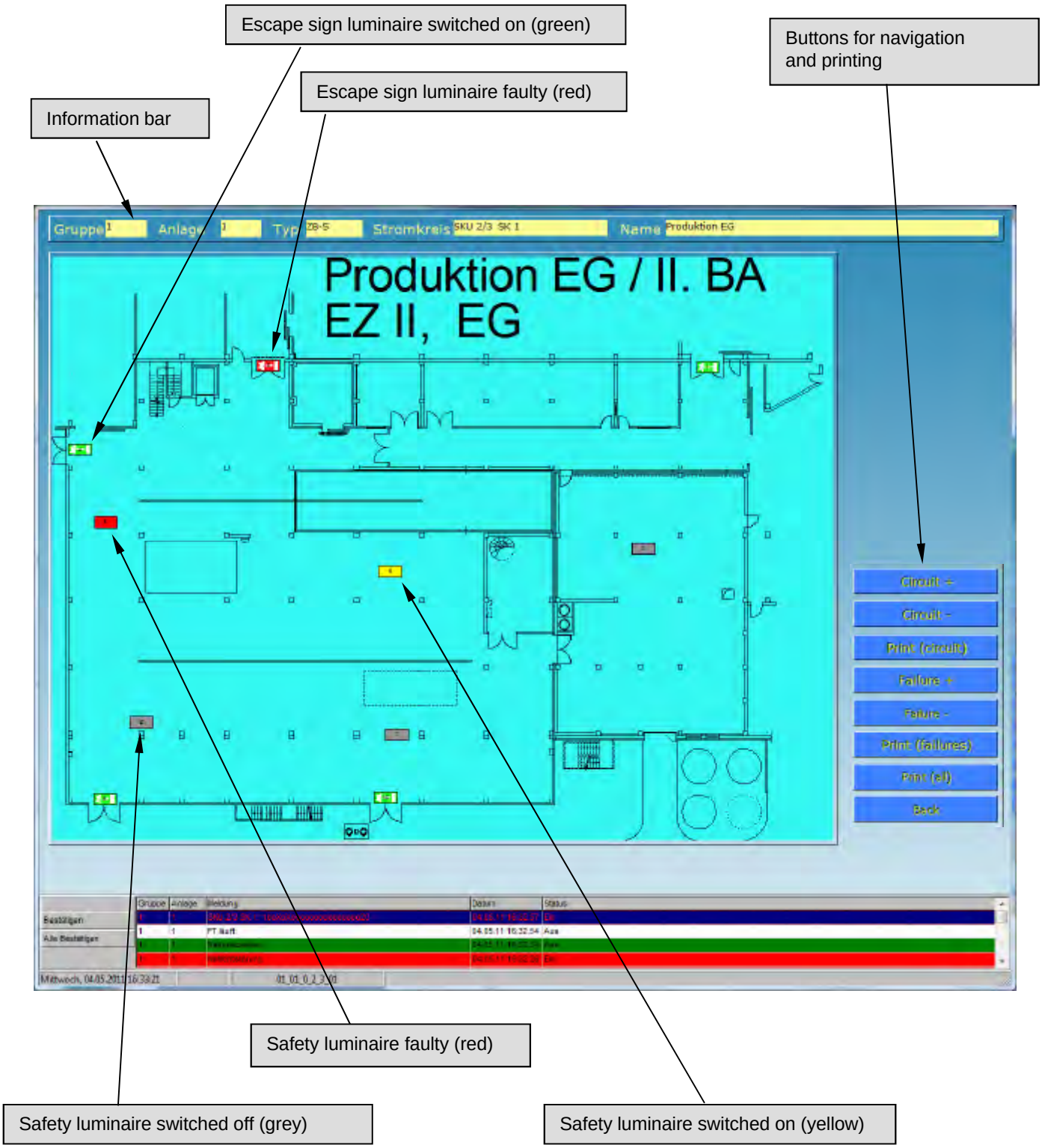


The following message is displayed; confirm with yes and exit the layout programme via the 'Exit' button.

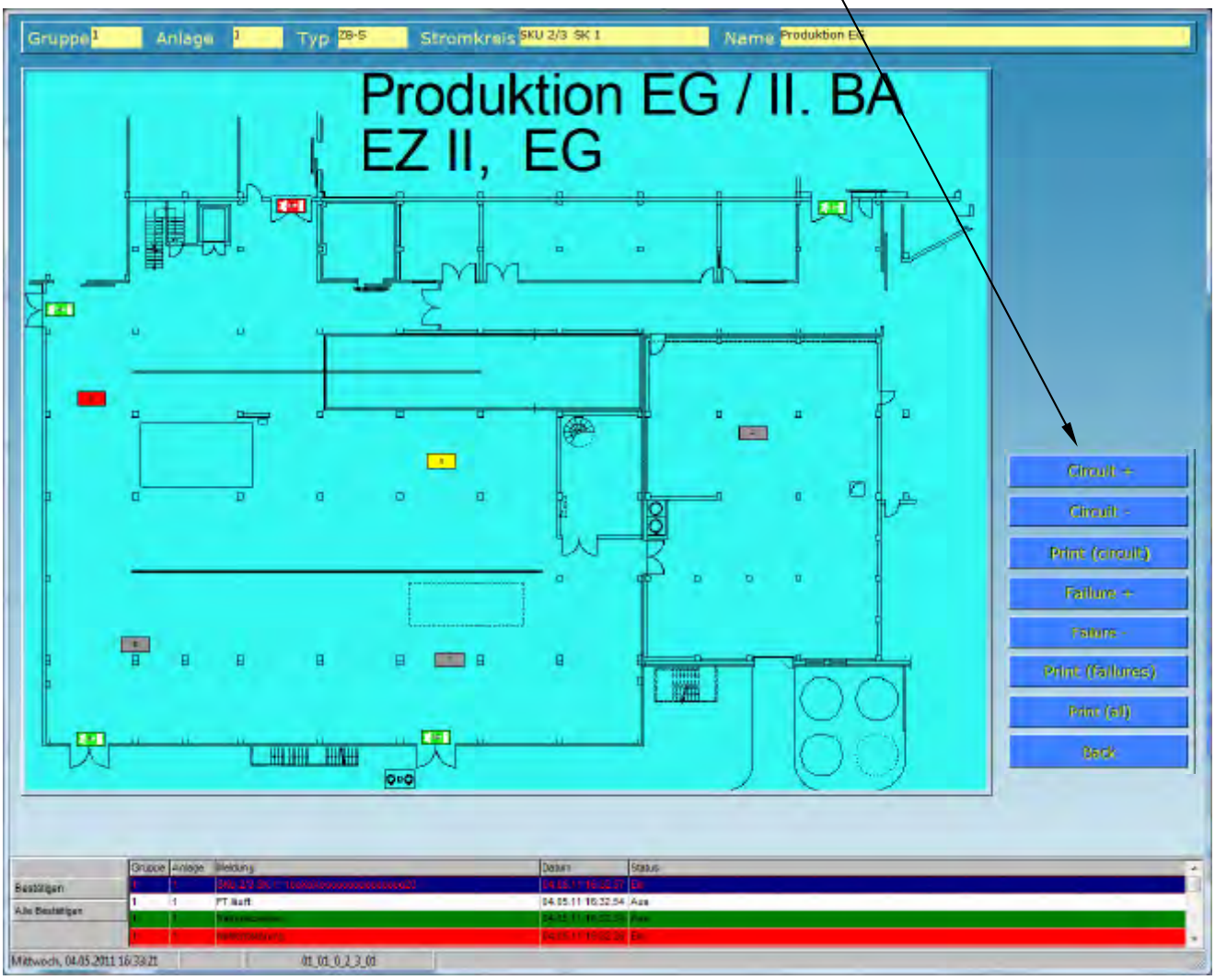
This process can now be implemented for all further circuits. After completing the complete layout programming or part of this, the corresponding layouts can be called up from the specific circuit in the circuit screen via the 'layout' button.



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

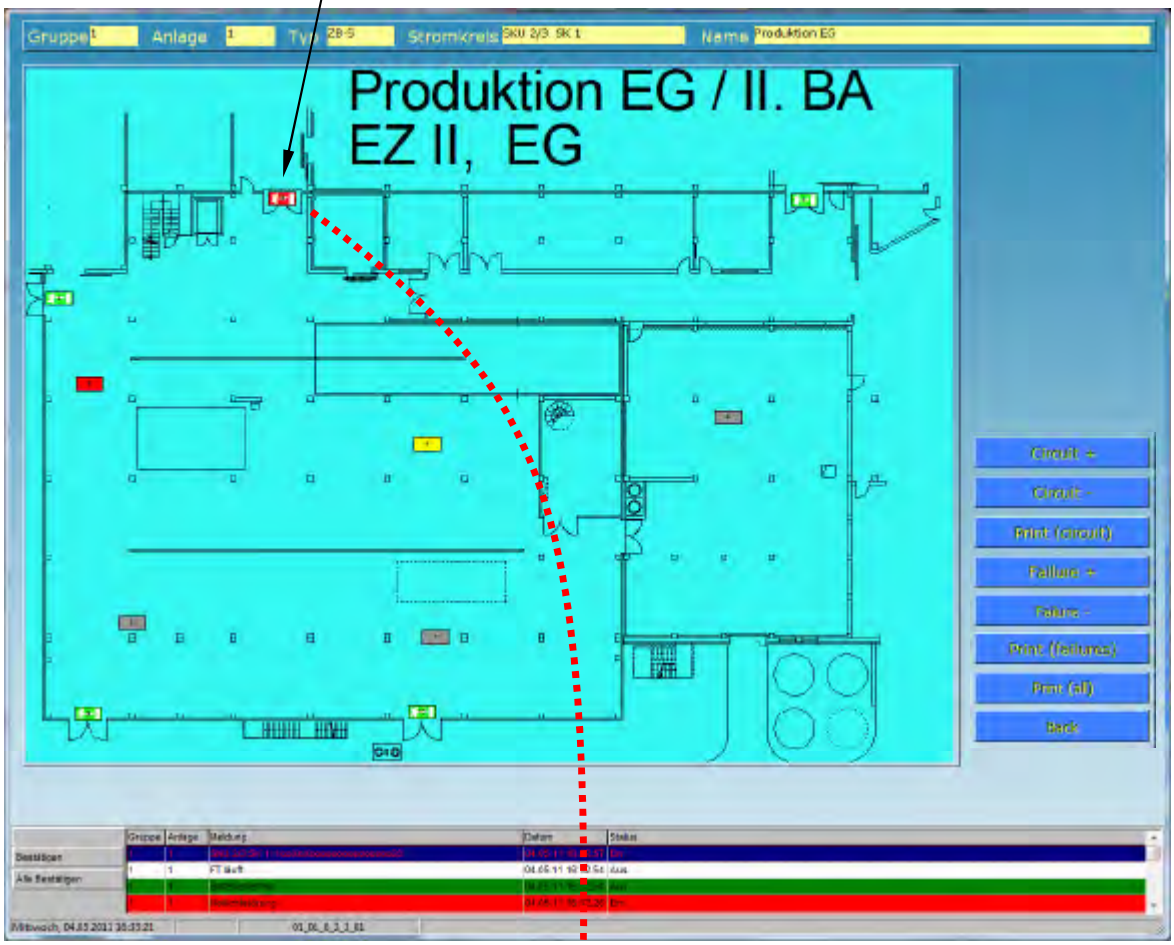
e). 'Fault - '
Calls up the previous circuit screen with an existing luminaire fault

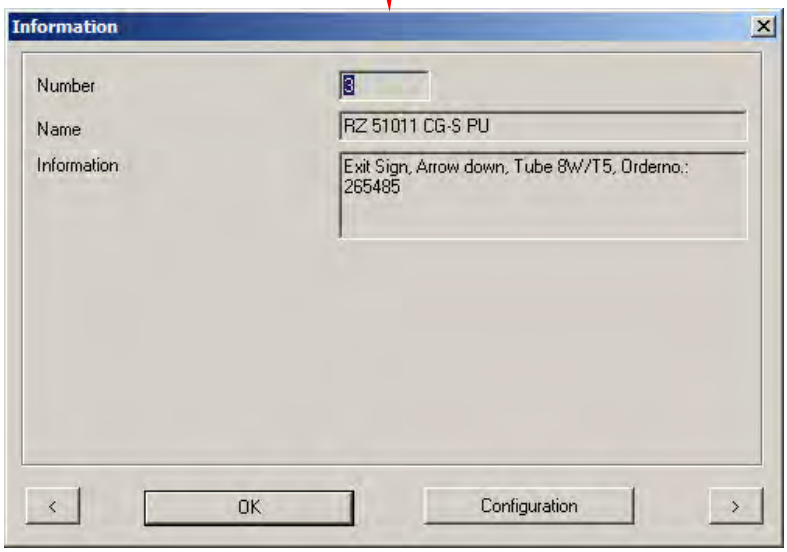
f). 'Print (faults)'
Prints the luminaire status and layout images of the faulty circuits

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

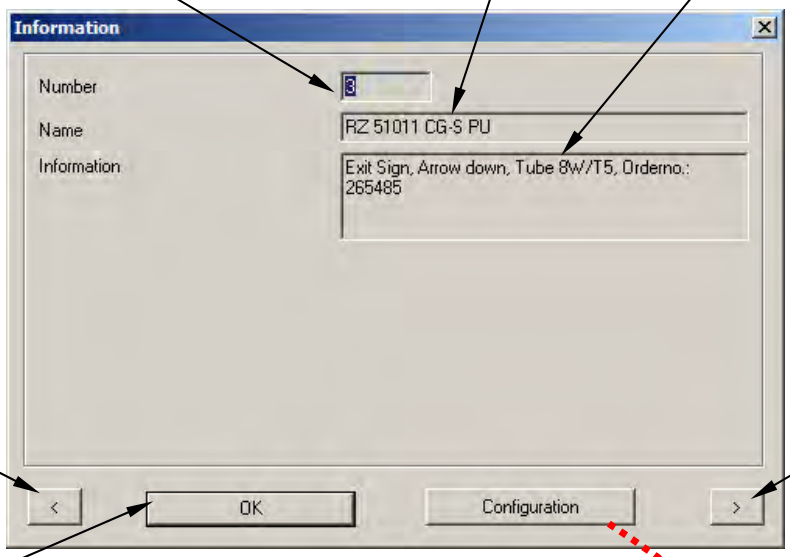




Luminaire name
(from the luminaire configuration)

Luminaire number in the circuit

Supplementary information with
up to 100 characters

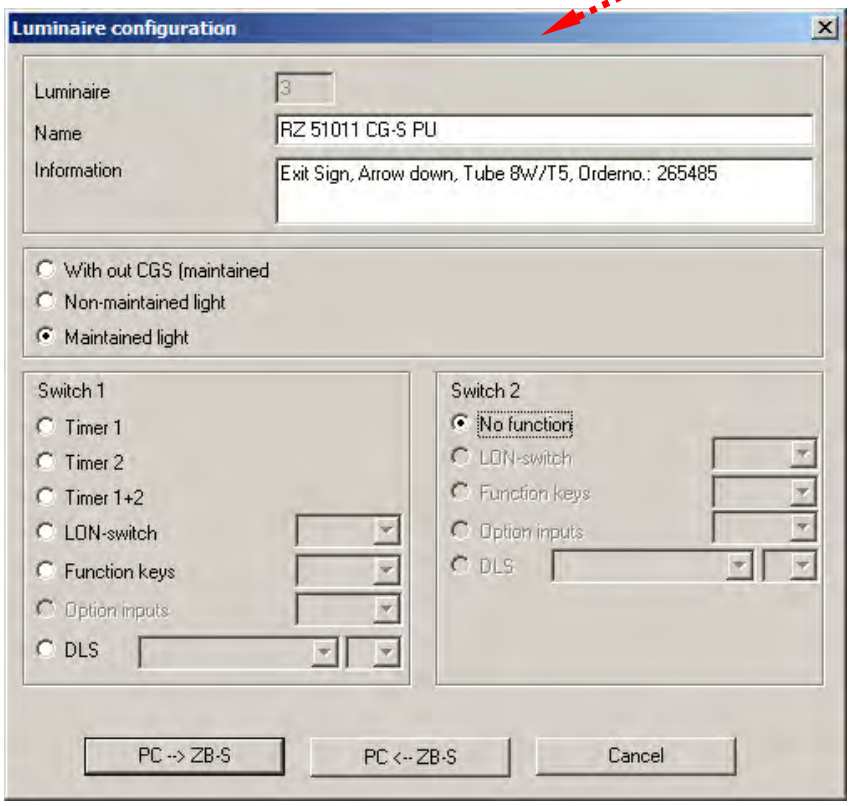


Luminaire number
back

Luminaire number
forwards

With OK back to layout image

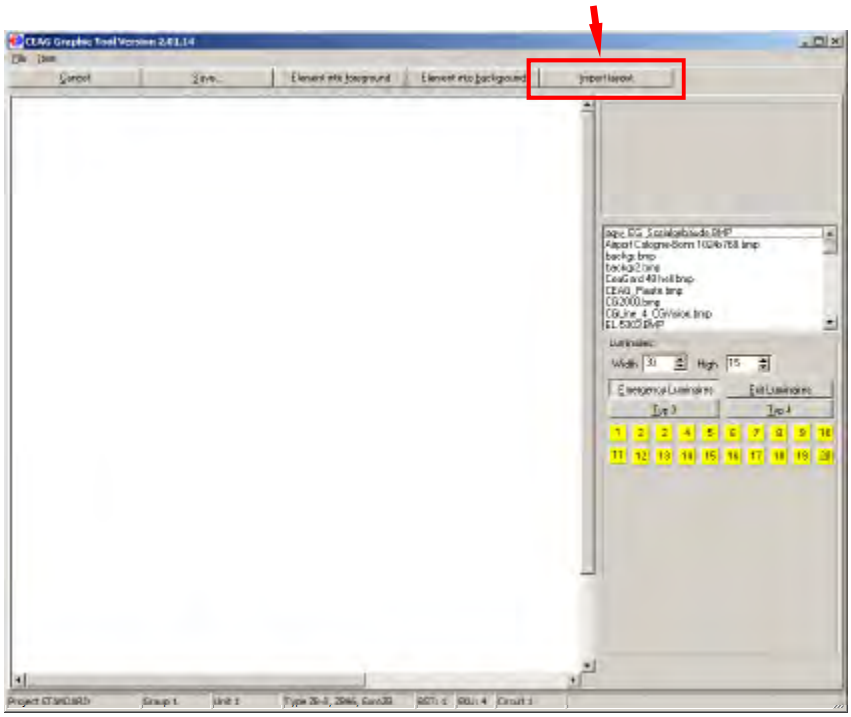
to luminaire configuration



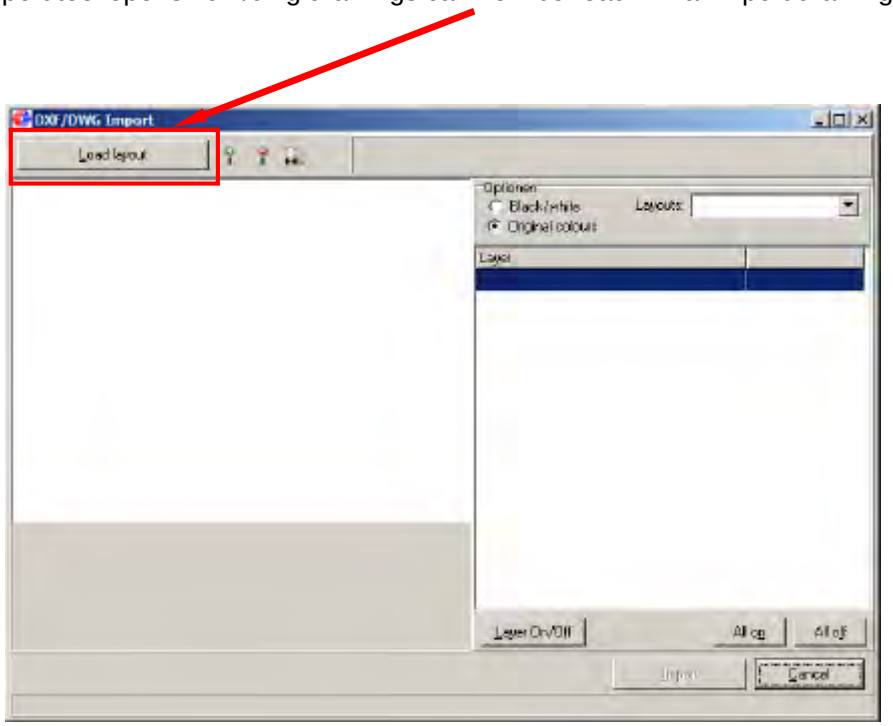
Information about the luminaire or the switching assignment can be simply edited here.
After modification, by clicking on the PC → ZB-S button
the modification is implemented immediately and the layout is returned to.

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:



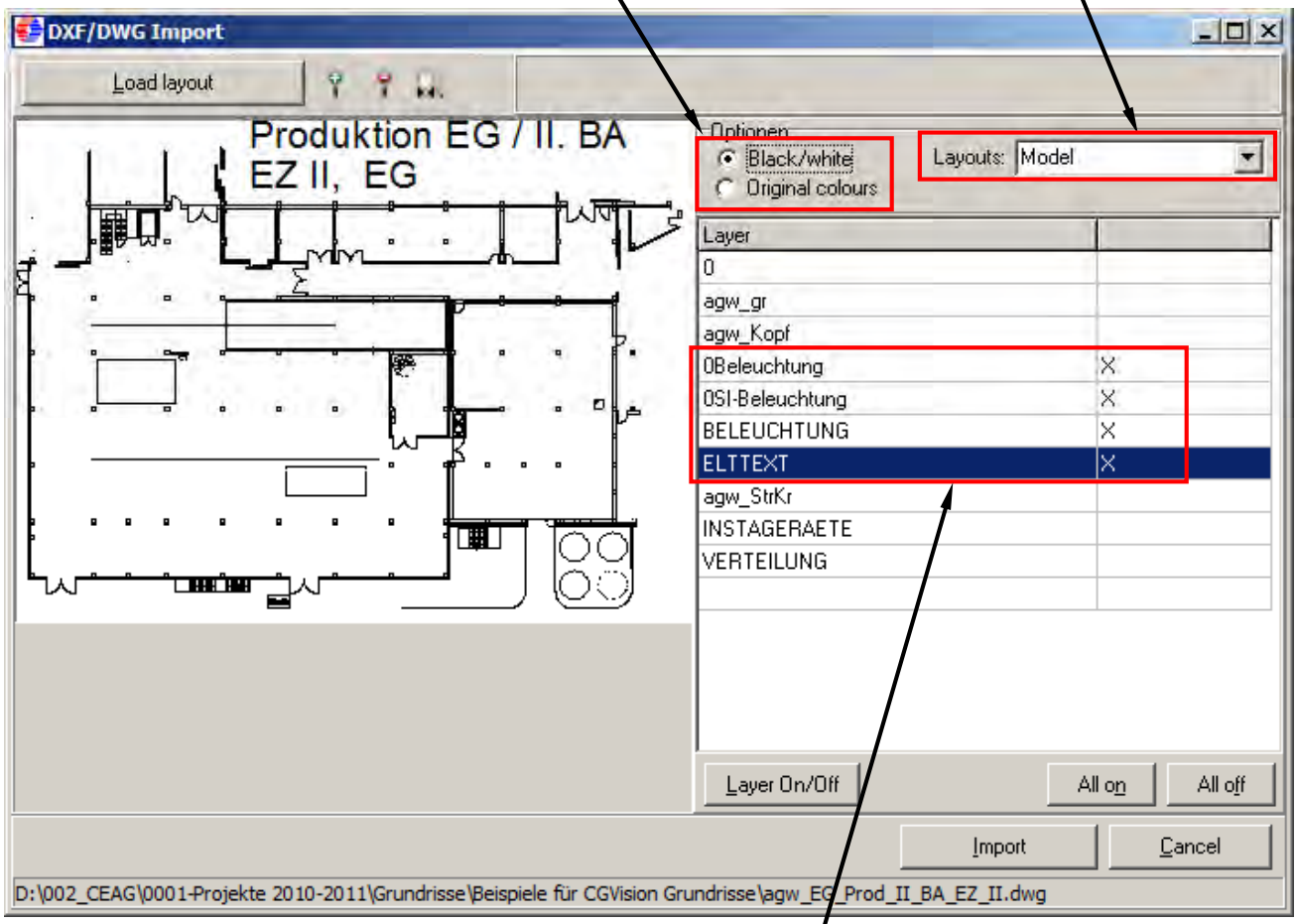
The DXF/DWG import tool opens. .dxf/dwg drawings can now be read in via 'Import drawing':



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

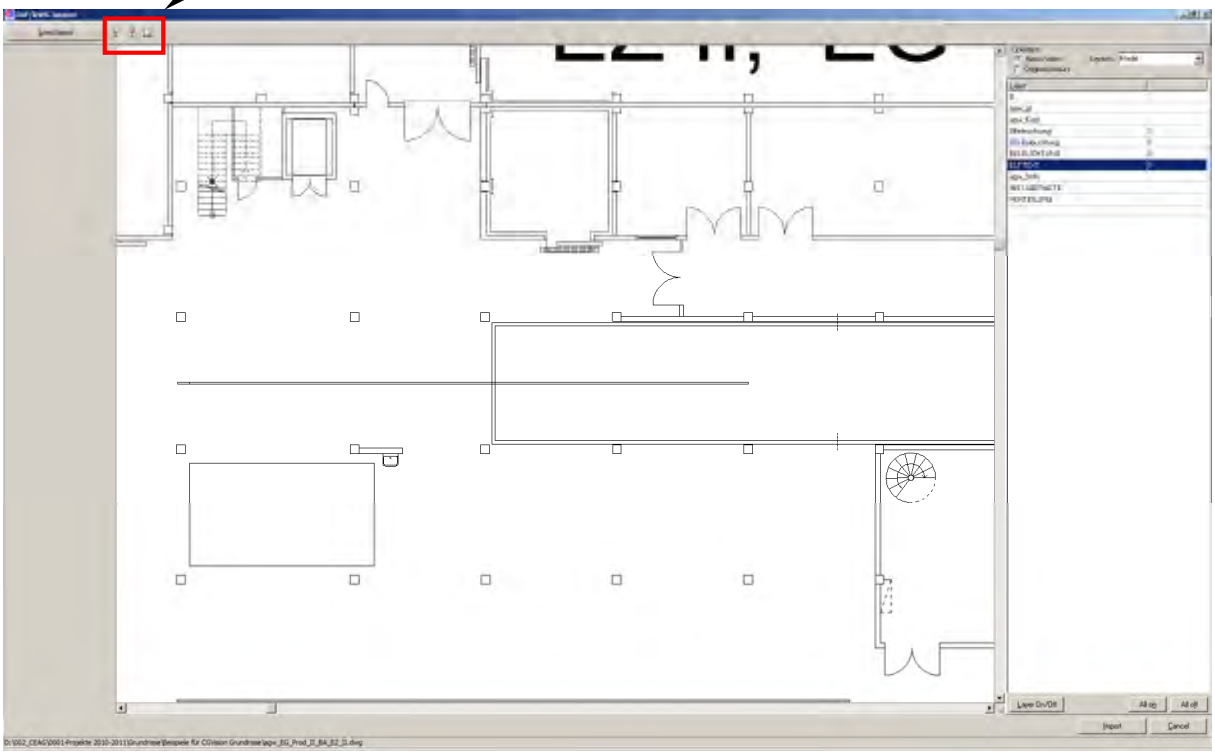
In the 'Layouts' selection field, a specific layout (if this exists) can be selected from the .dwg files.

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

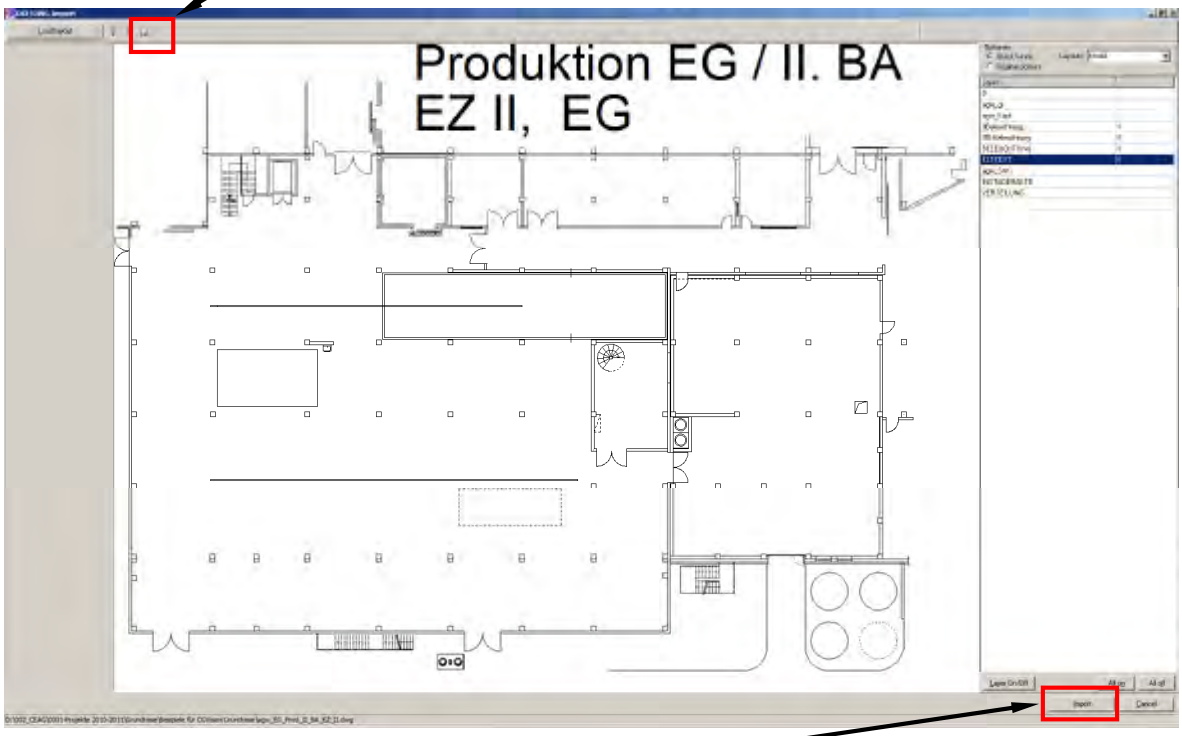


All available layers are listed in the area on the right, and these can be hidden or displayed via double clicking or via 'Layer On/Off'.
The hidden layers are designated with an X.

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

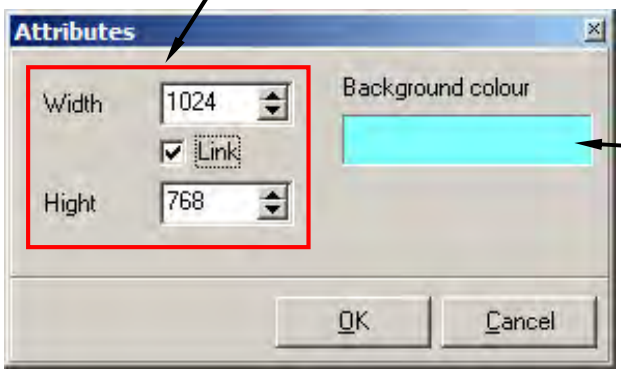


The complete drawing is displayed again with the right image magnifier symbol.



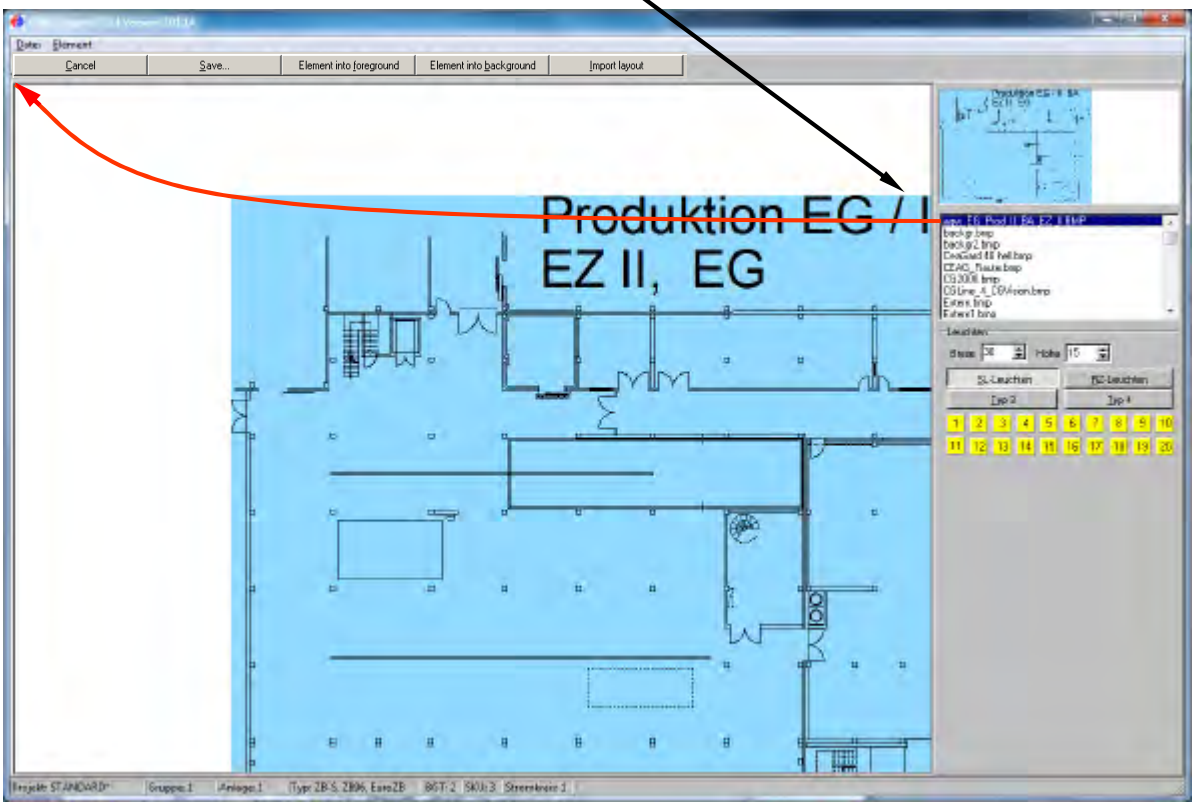
The suitable image is then loaded via 'Import'.

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

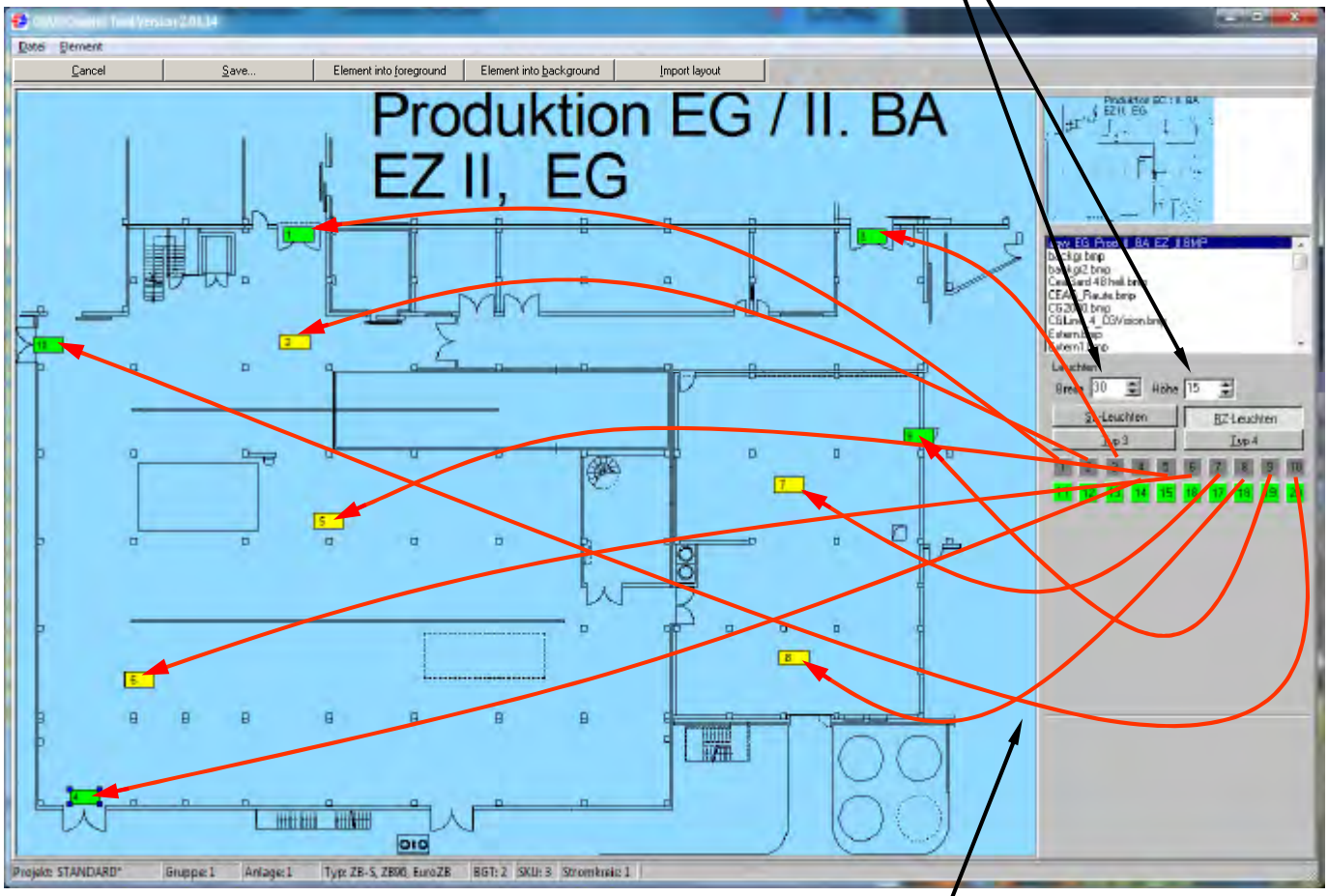


The image can be colour-highlighted for better contrast during import via 'Background colour'. (For this, the black/white option must have been specified previously).

The image is automatically imported into the folder as a bitmap. After selecting the image, it can be dragged into the top left corner of the formatted area by pressing the left mouse button. (red line)
Corrections can be carried out at any time by clicking anywhere on the layout (press and hold) and dragging the layout to the desired position.

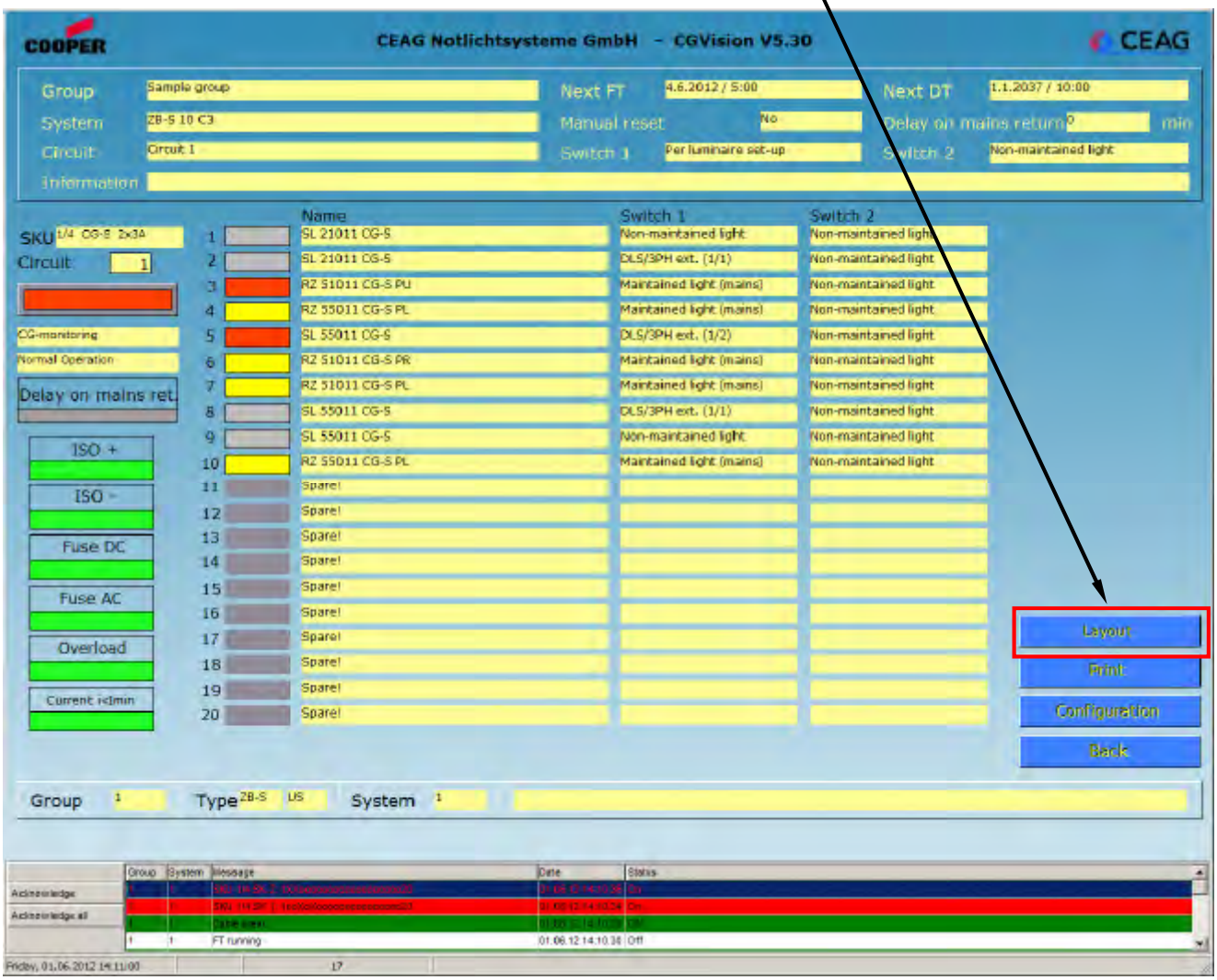


Using the selection fields, the 'width' and 'height' of the luminaires can be set <u>before</u> positioning the luminaires in the layout to achieve optimal size for the corresponding layout template. This should be tested initially.



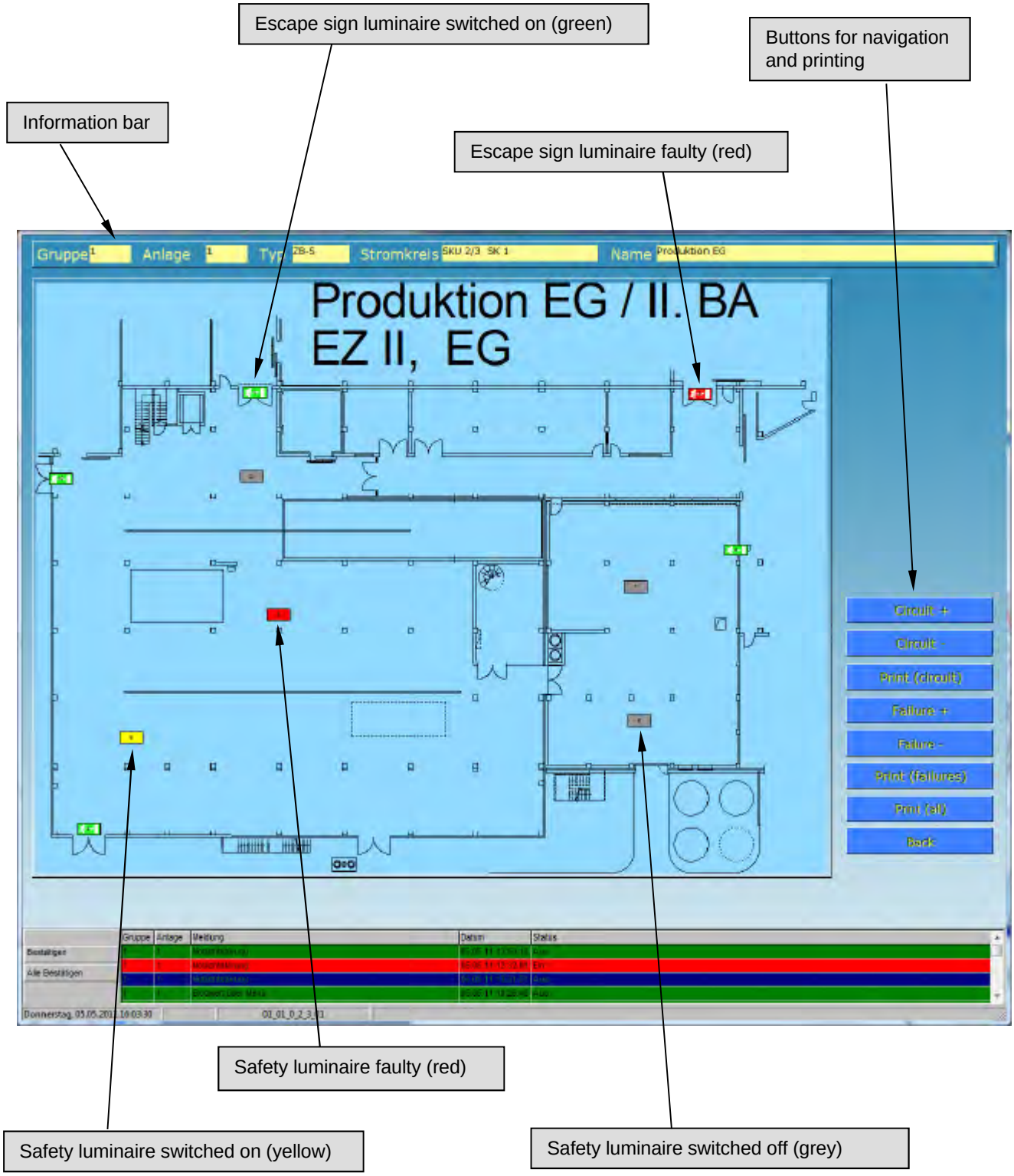
The luminaires 1 to 20 can be moved to the suitable positions in the layout with the left mouse button

After positioning all luminaires in the circuit, programming can be exited with 'Save' and 'Exit'. The created layout can now be called up in the circuit screen via the 'layout' button.



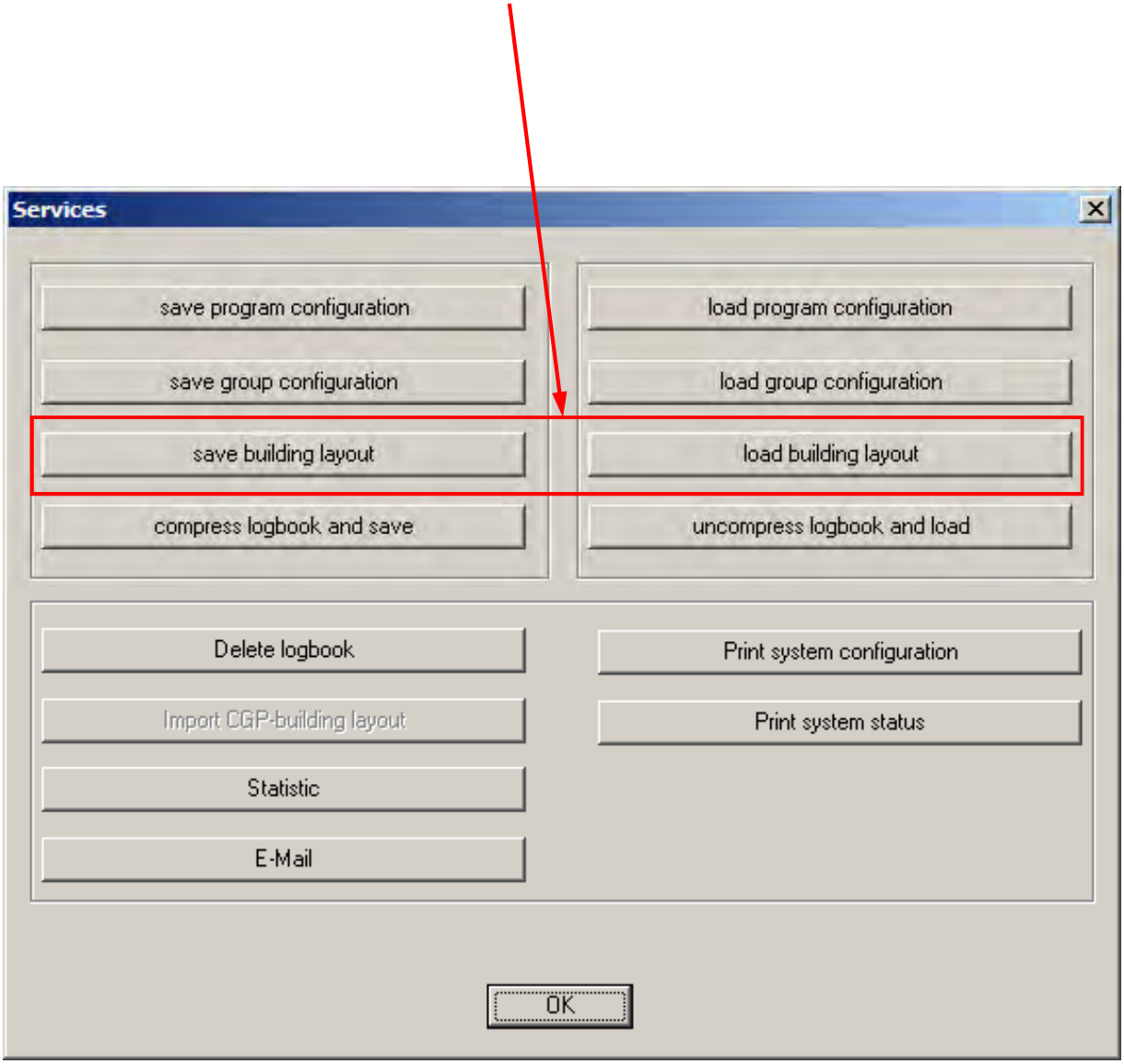
The layouts for luminaire programming can be opened from any screen.
The first available layout image is always opened in the current view.
For example in the device group screen for the first device group, the first available layout image of this group is opened.

Variable display of luminaires in the layout



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.



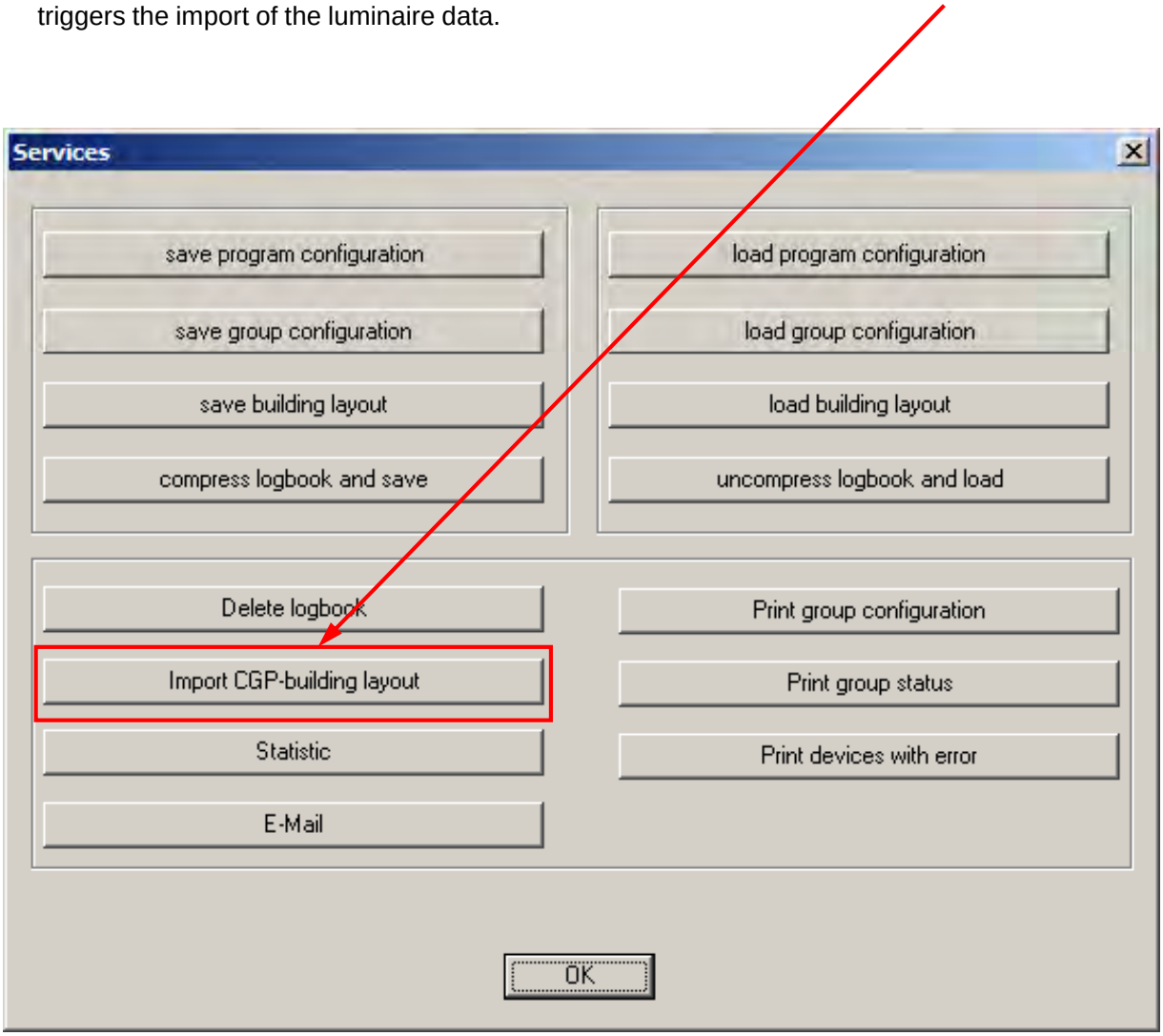
12.5 CGP data import of a layout programming

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

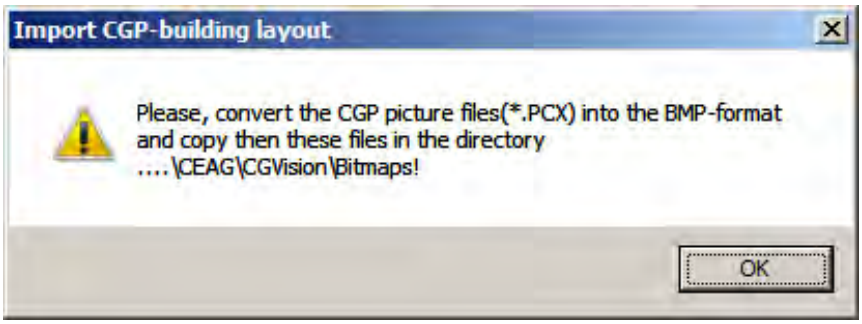
Setting up:

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.

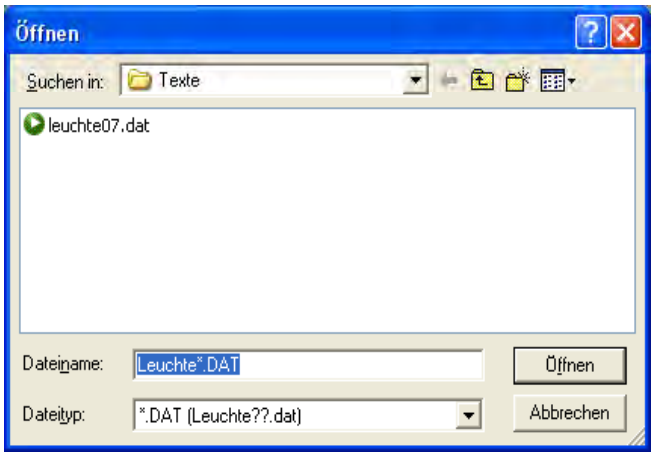


4. After clicking on the button the following message is displayed:



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 -

CEAG Notlichtsysteme GmbH

Senator-Schwartz-Ring 26
59494 Soest, Germany
Telephone + 49 2921 / 69-870
Fax + 49 2921 / 69-617
Internet http://www.ceag.de
E-Mail Info-n@ceag.de

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 13

F3 interface for connecting an F3 remote indication

CEAG Notlichtsysteme GmbH

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.
<u>F3 interface (or I/O interface connection box):</u>
output 4 = common system fault prio.2
output 5 = test is running (function test or duration test)

<u>I/O ethernet module:</u>
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“ functionility of described sections.

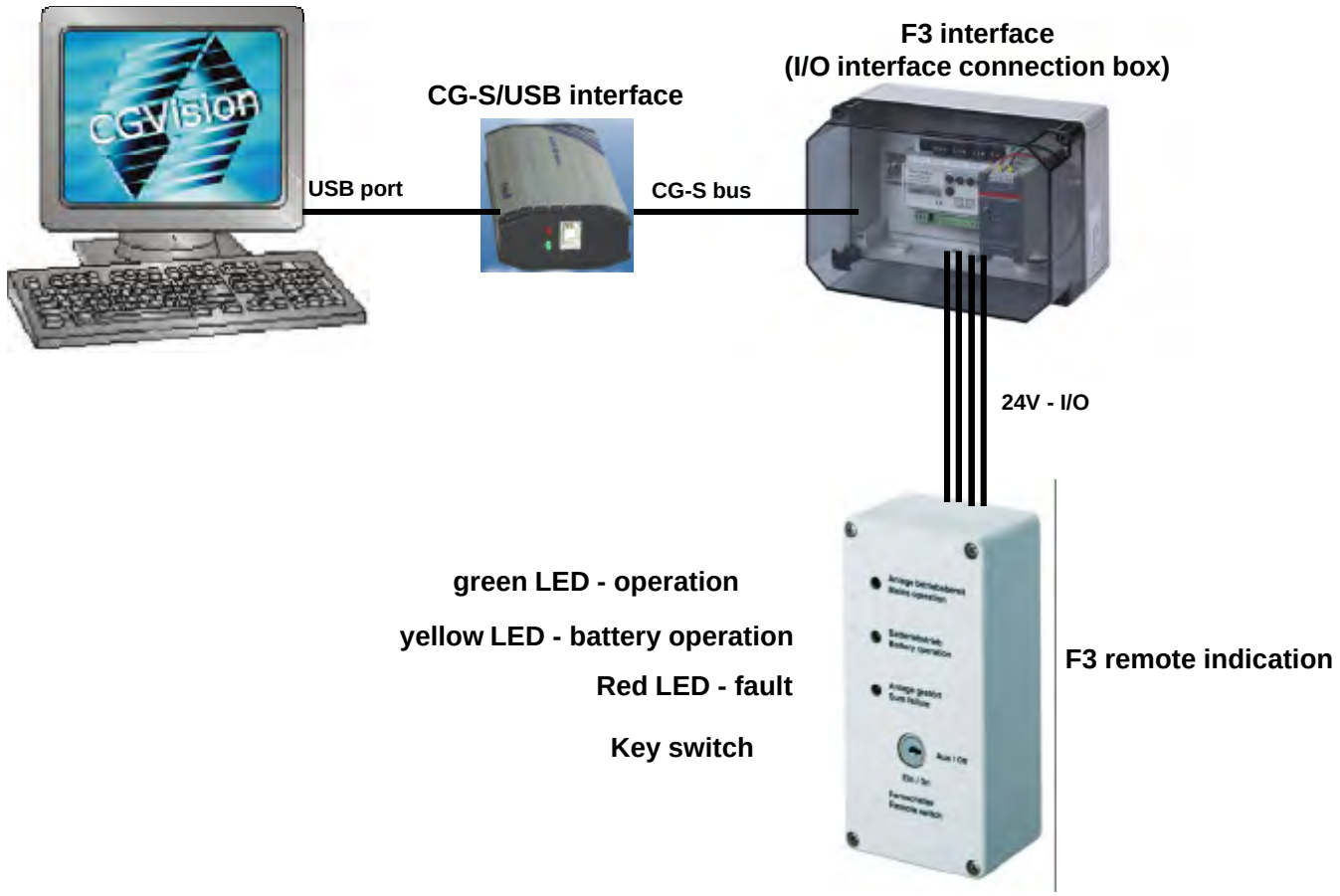
13.2 F3 interface (I/O interface connection box)

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

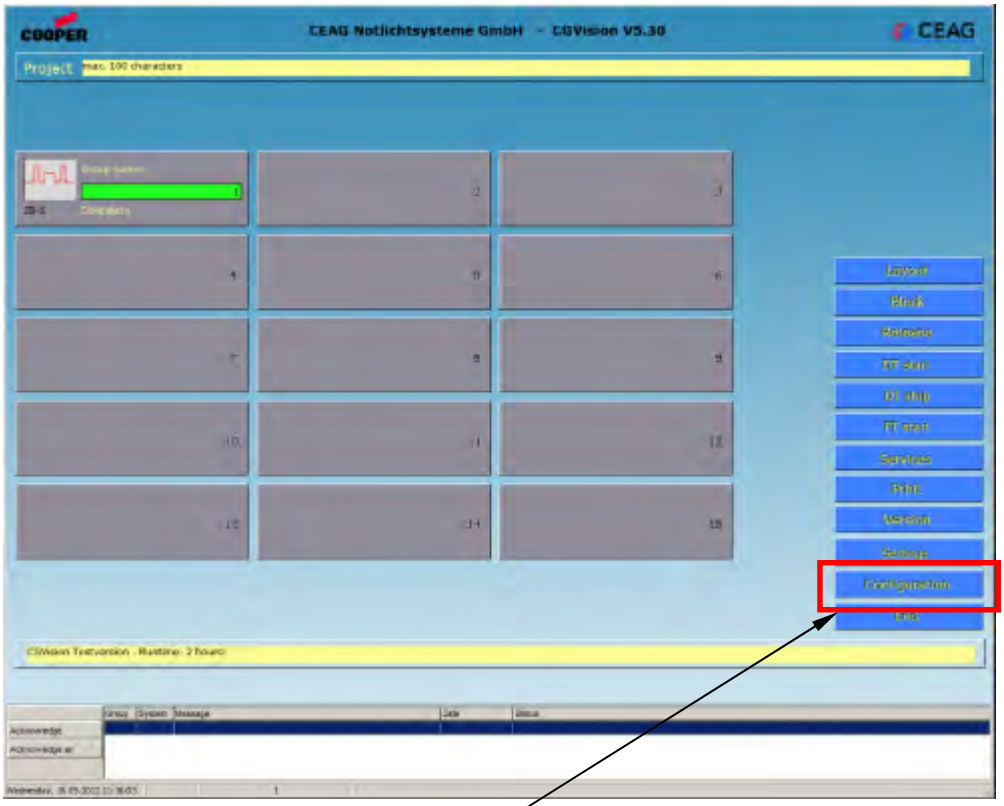
The F3 interface has 4 digital inputs (24V) and 5 relay outputs (max. 230V/ AC, 8A). Connection to CGVision is via the CG-S bus, meaning it can be connected to the CG-S bus parallel to the ZB-S or CG2000, or with autonomous operation requires the CG-S/USB interface. Routing via the ethernet with the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

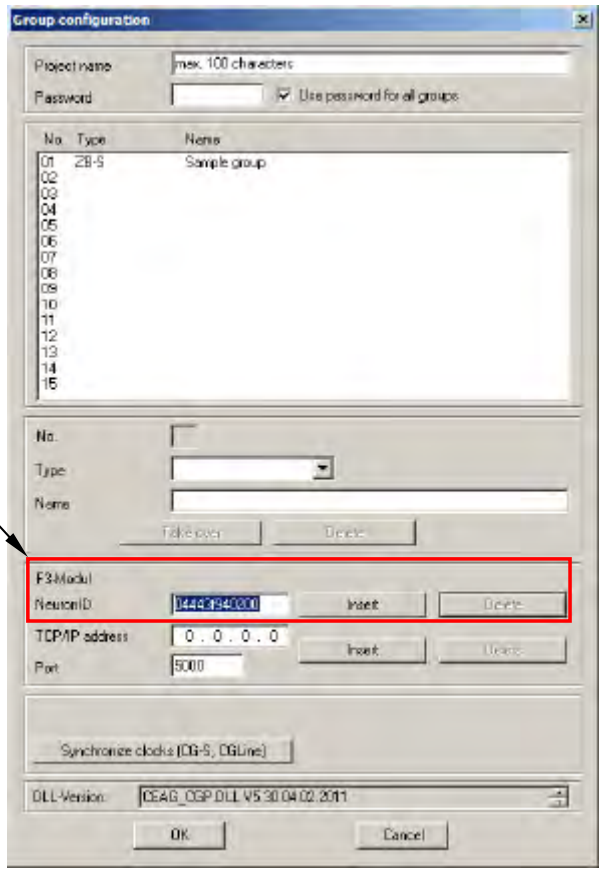


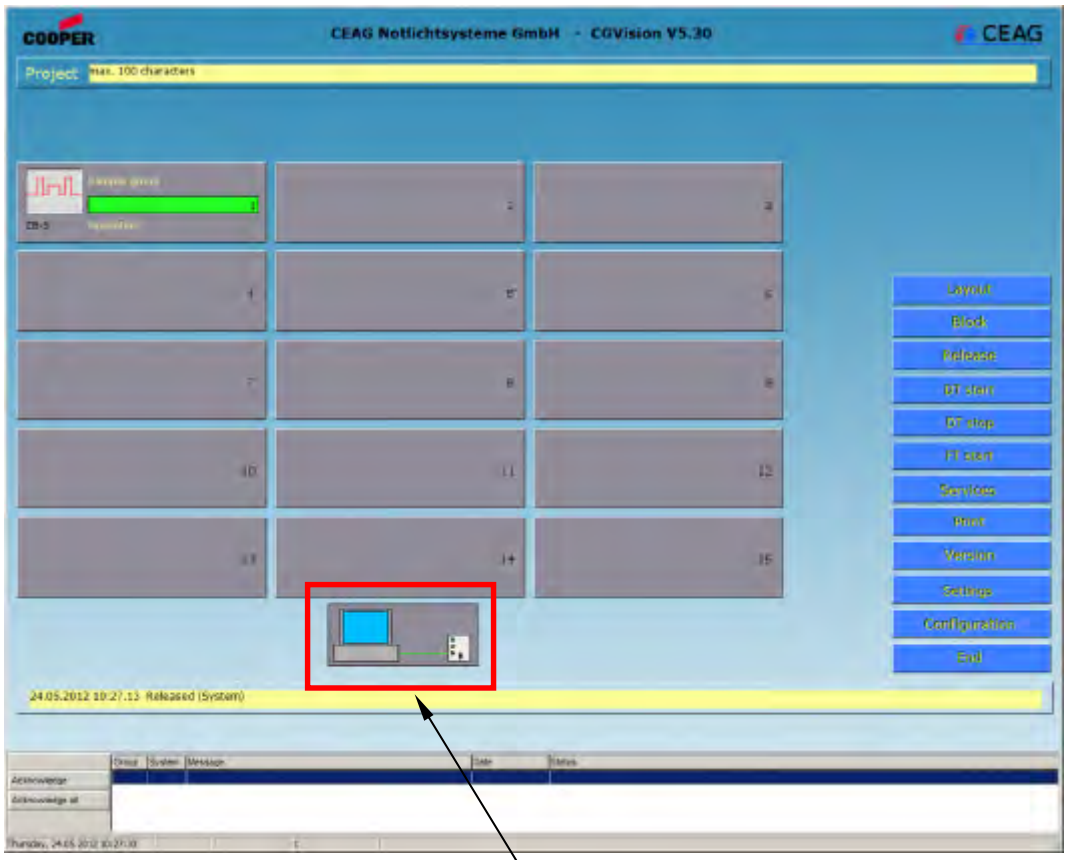
13.2.2 Activating the F3 interface in CGVision



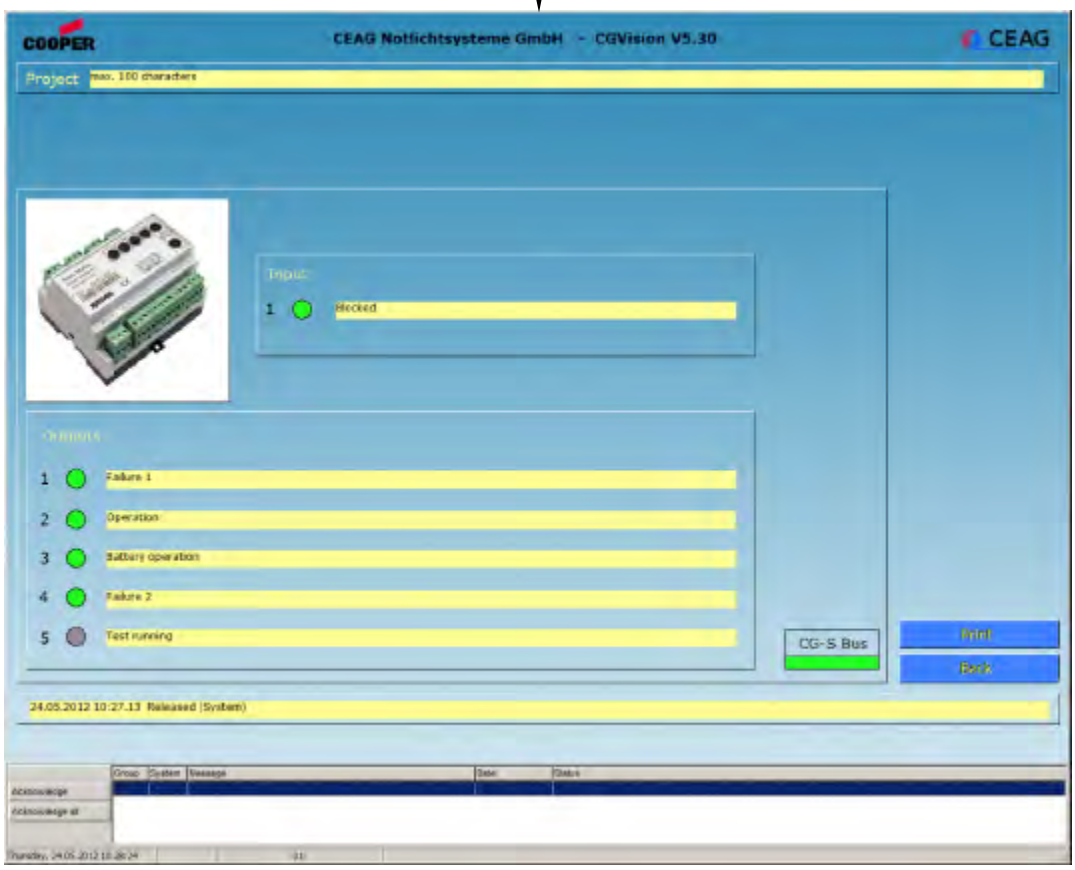
An F3 interface can be created via the 'Configuration' menu.

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.



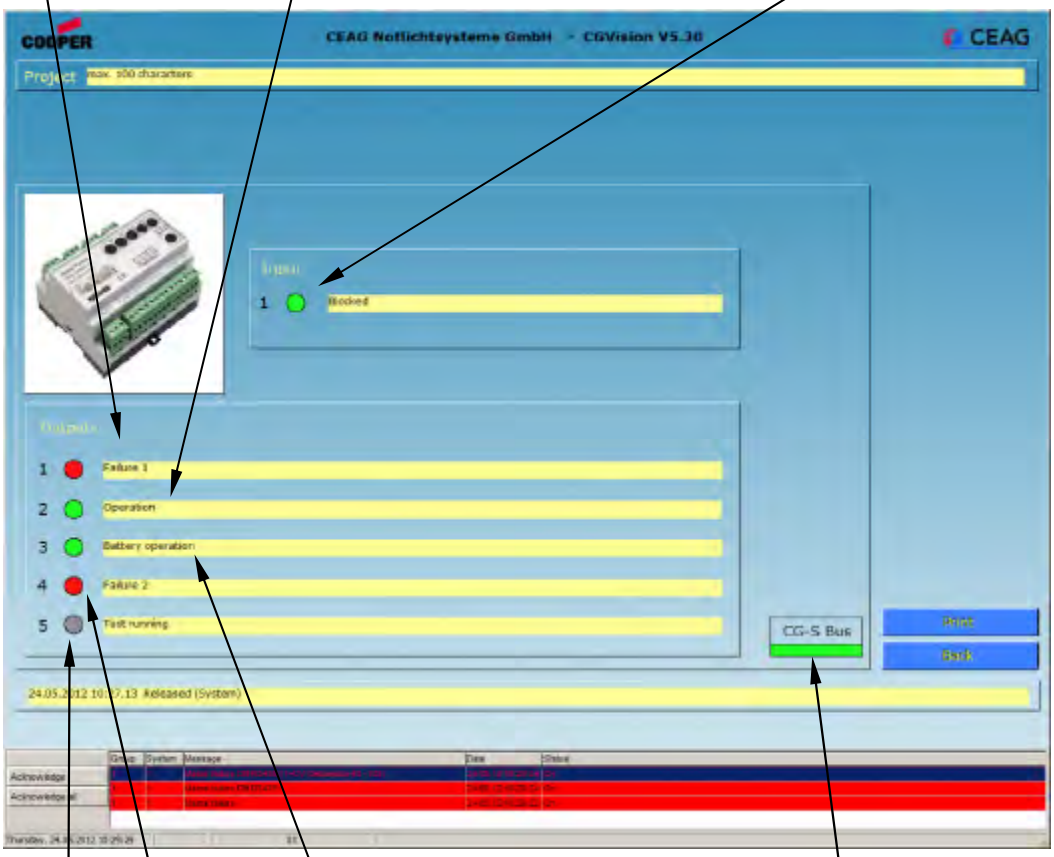
13.2.3 Structure of the F3 interface device screen:

Example:

Failure 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 = CG-S communication OK

Battery operation = green → no device in battery operation
Battery operation = yellow → at least 1 device in battery operation

Failure prio.2 = red → at least 1 device has a fault without luminaire fault

Test running = grey → no device in function test or duration test
Test running = yellow → at least 1 device in function test or duration test

13.3 I/O ethernet module

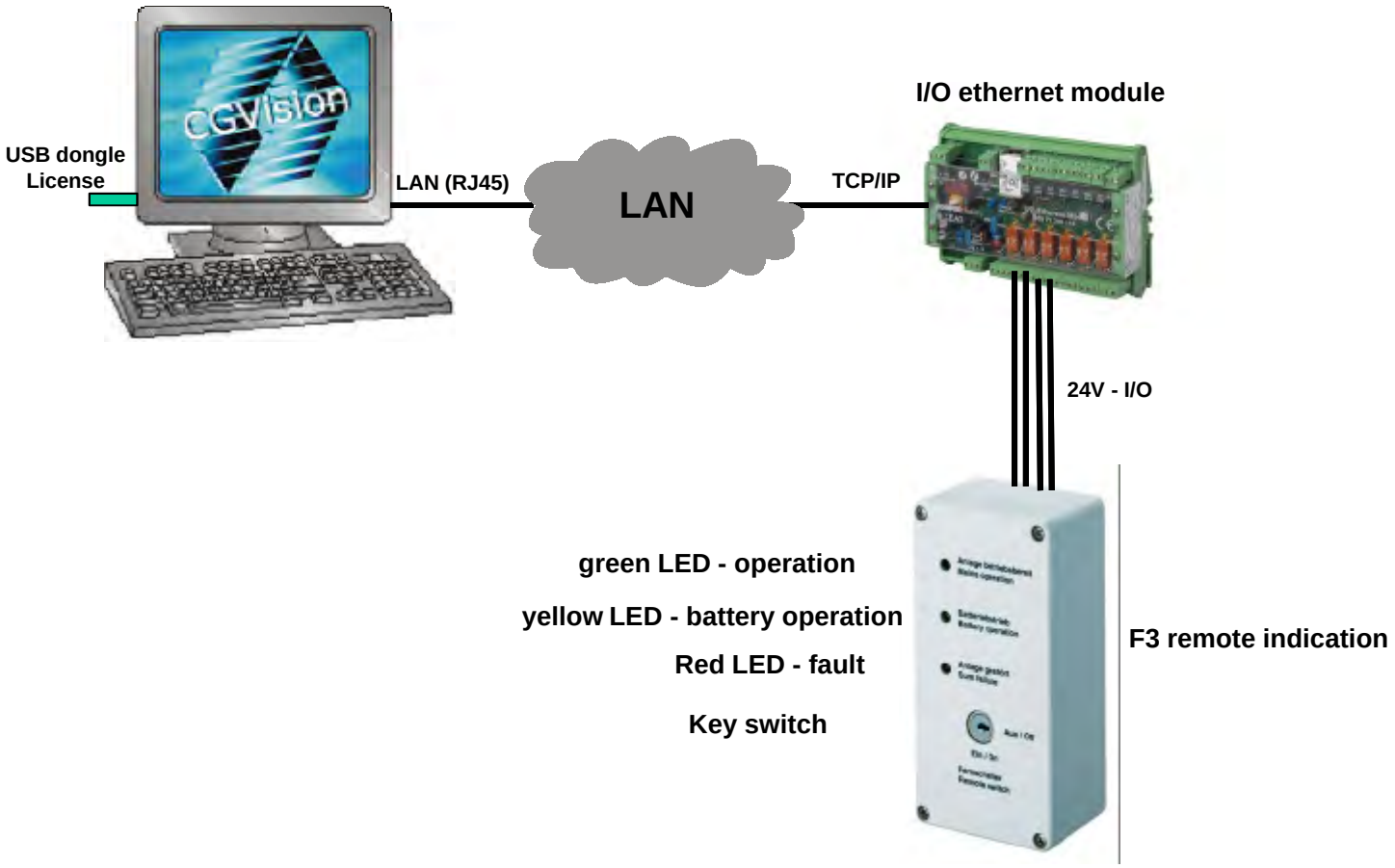
13.3.1 General information about the I/O ethernet module

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.

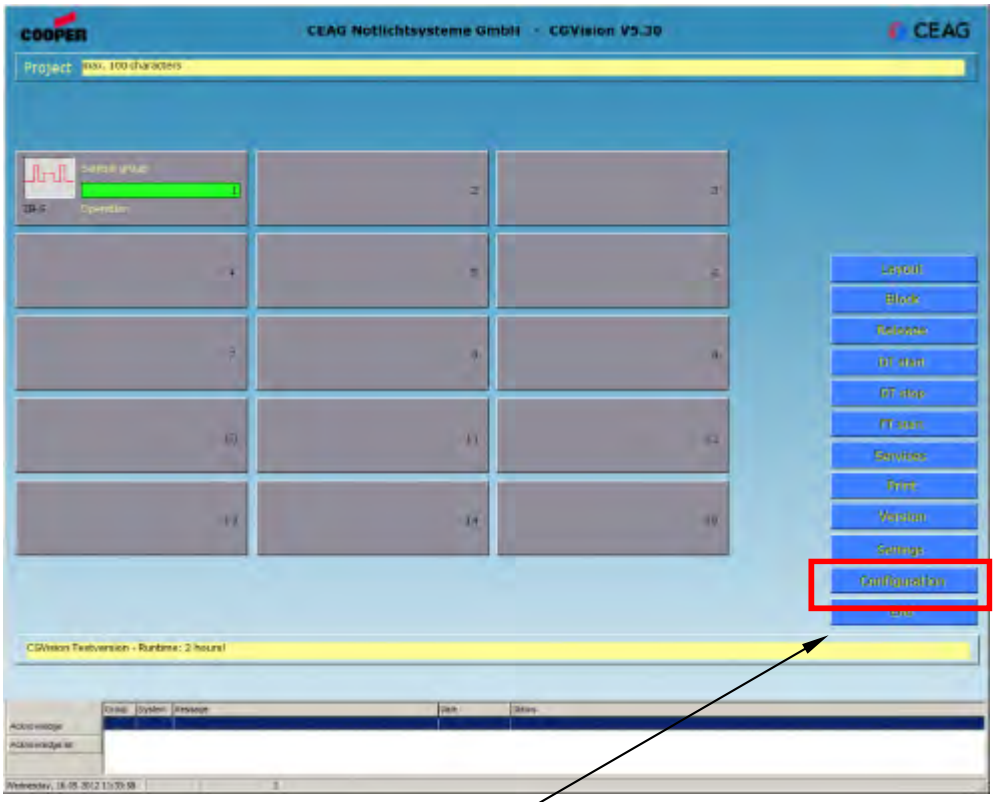
The I/O ethernet module is a digital I/O module with 8 digital inputs (24V) and 5 relay outputs. (max. 24V/ AC, 1A).
Connection to CGVision is via the LAN port (RJ45), meaning typically via an ethernet.
The module is designed for mounting to a DIN rail with installation in the distributor. Supply is 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

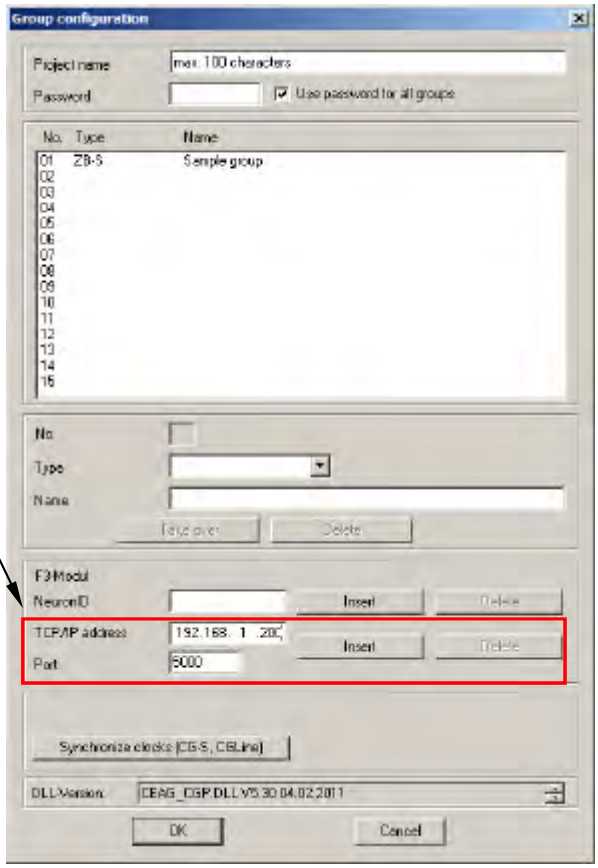


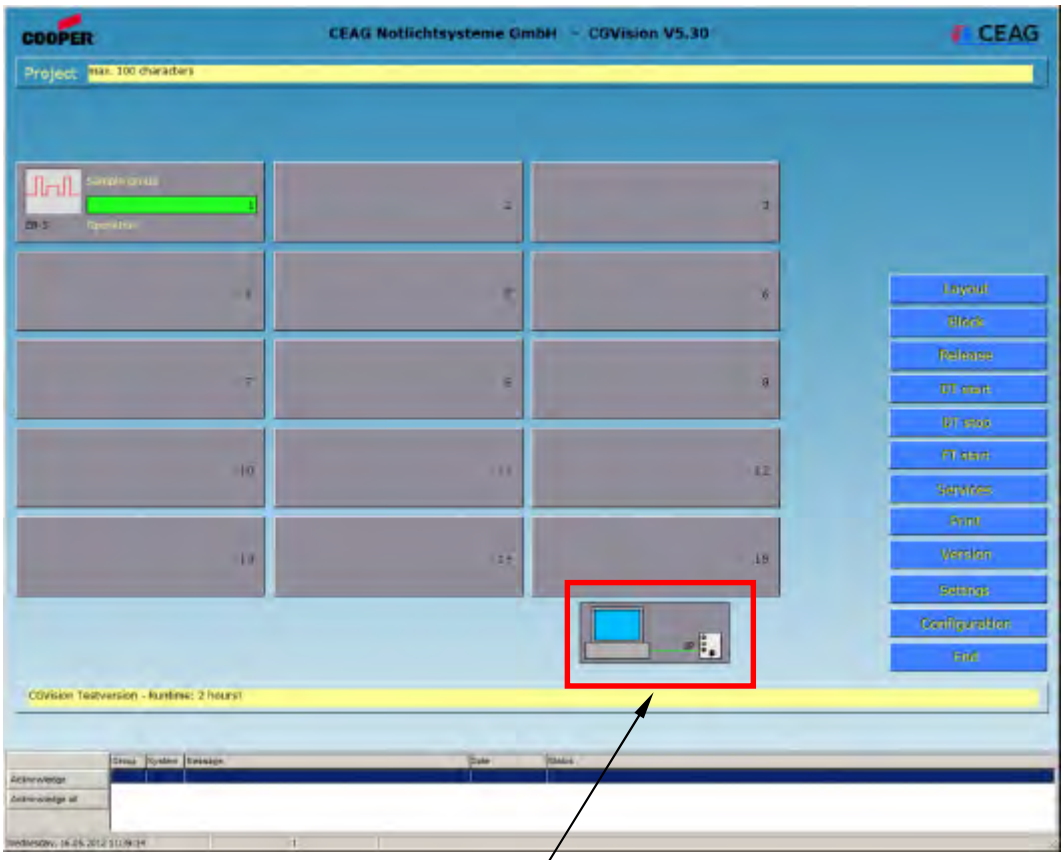
13.3.2 Activating the I/O ethernet module in CGVision



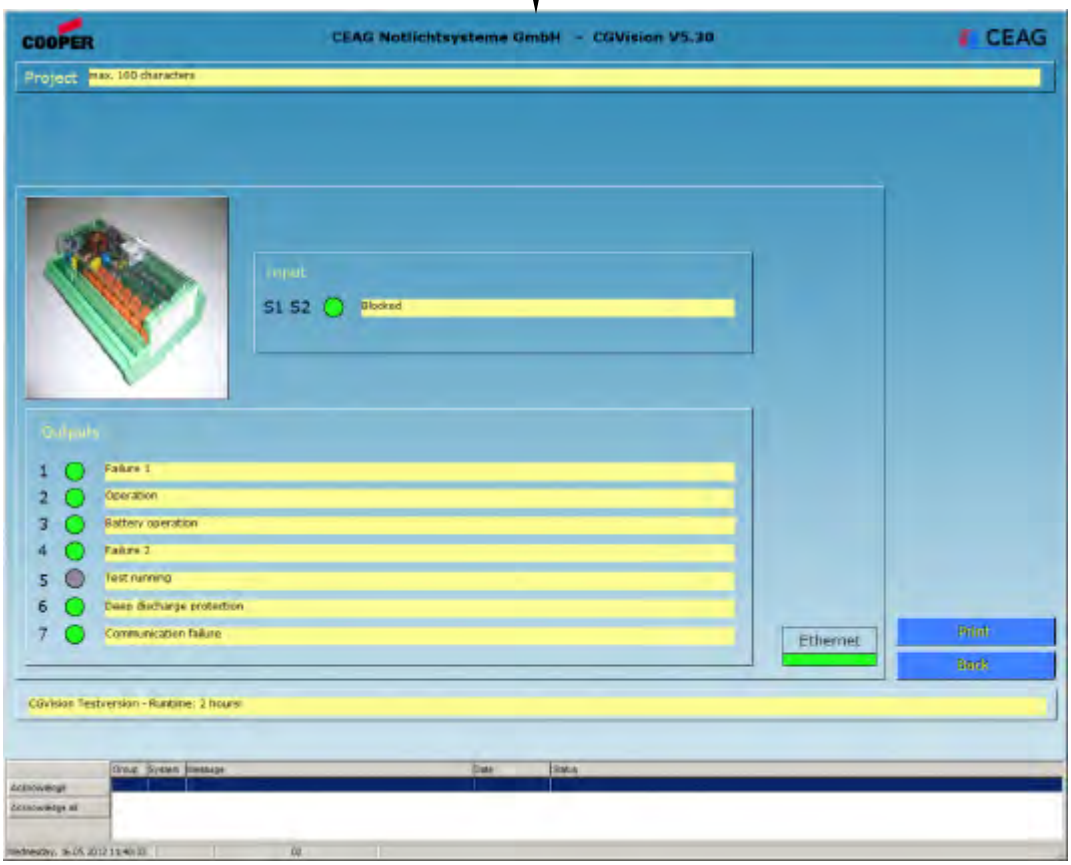
An I/O ethernet module can be created via the 'Configuration' menu.

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.



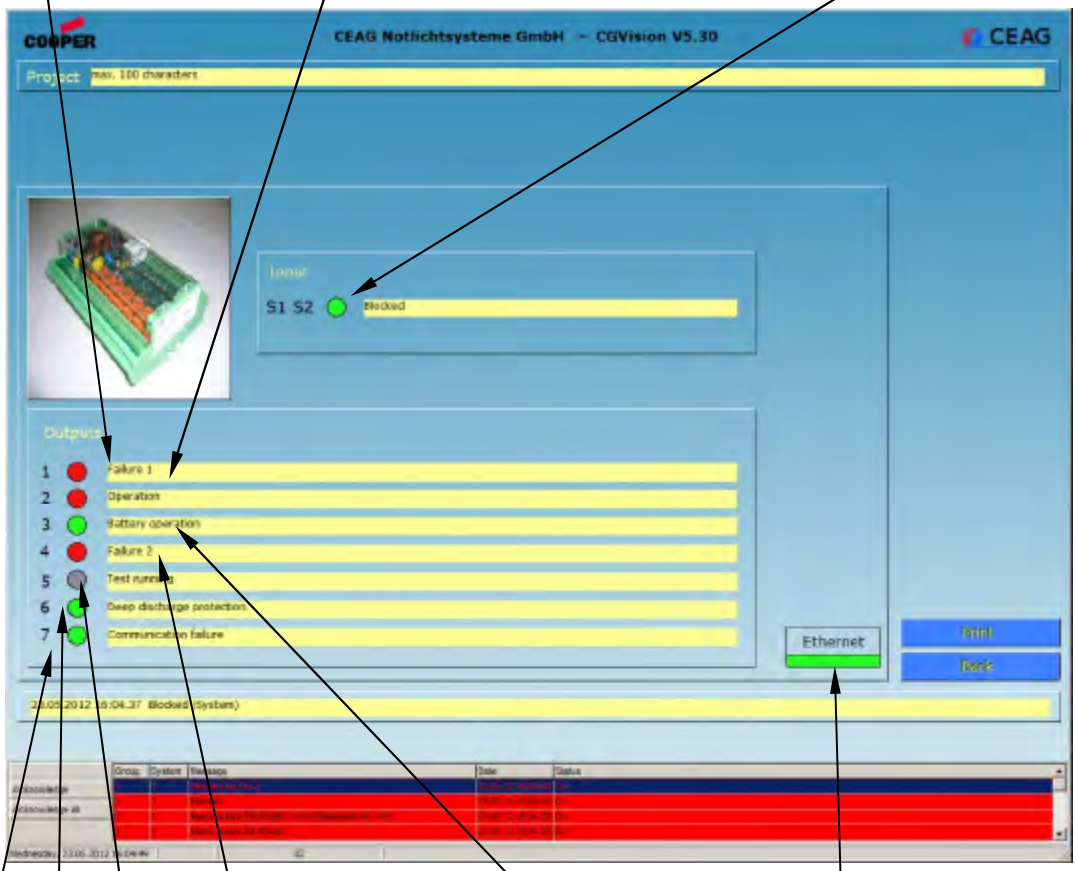
13.2.3 Structure of the F3 interface (I/O ethernet module) device screen:

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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CEAG Notlichtsysteme GmbH

Senator-Schwartz-Ring 26
59494 Soest, Germany
Telephone + 49 2921 / 69-870
Fax + 49 2921 / 69-617
Internet http://www.ceag.de
E-Mail Info-n@ceag.de