PANASONIC FIRE ALARM SOLUTIONS

TECHNICAL DESCRIPTION
1598

WEB-SERVER II

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1. INTRODUCTION

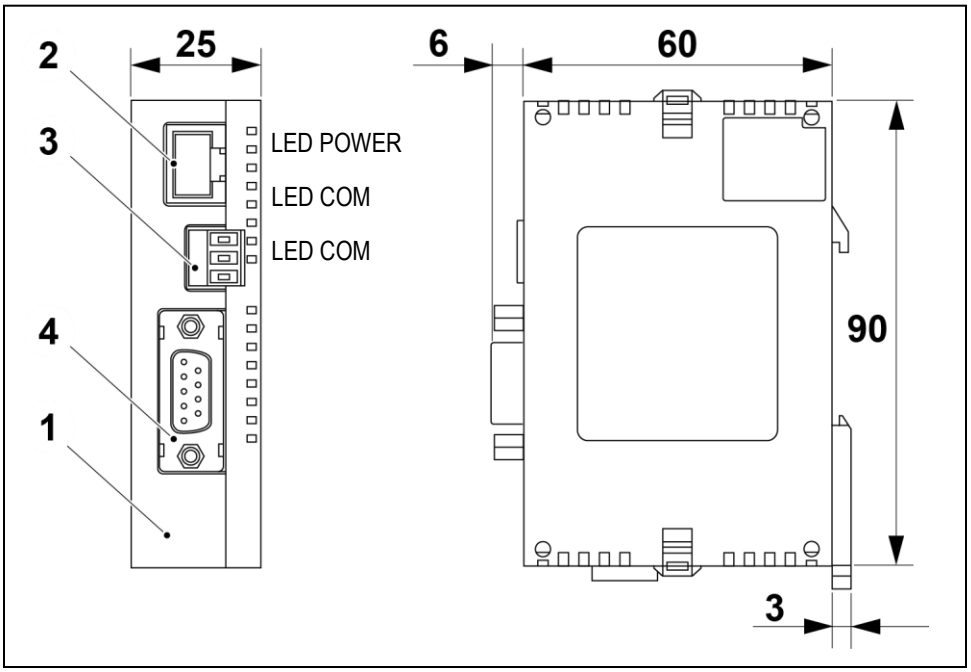
This document describes the Web-server II, type number 1598.
The document contains information about the product and instructions on how to mount and connect it. It also describes the EBLWeb functions.

2. ABBREVIATIONS

C.i.e	Control and indicating equipment
S/W	Software
H/W	Hardware
NTP	Network Time Server
System	Two or more control units connected to a TLON network
LAN	Local Area Network
SSD	Site Specific Data

3. GENERAL DESCRIPTION

The Web-server II is a hardware. The function of the Web-server II is depending on which software that is downloaded to the Web-server II, for example WebG3, Web128, or OPC512 G3 software. The function is also depending on which configuration that is downloaded to the Web-server II.
It is intended for indoor use and in dry premises.



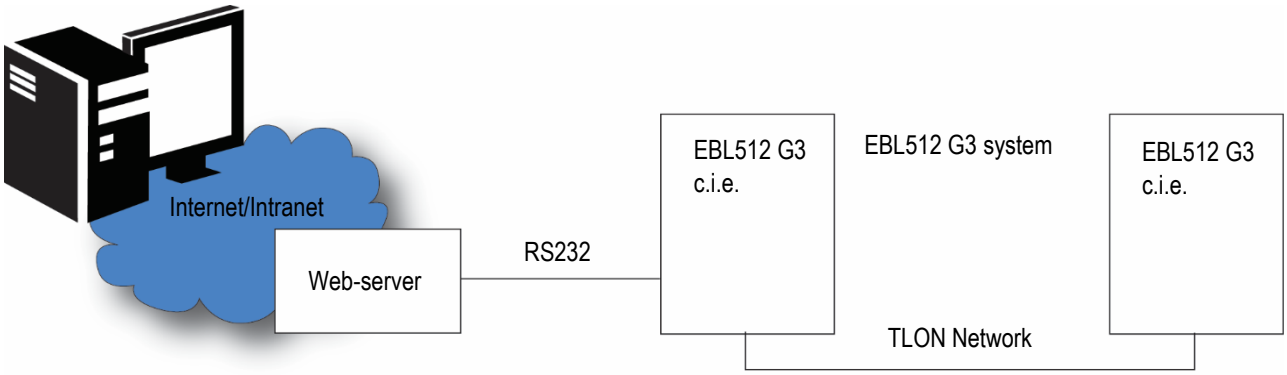
(Measures in mm)

1) Cabinet
2) Ethernet
3) PLC
4) Modem

The software (EBLWeb) and configuration data are downloaded to the Web-server II via a commissioning tool, EBLWin. The EBLWin is depending on the EBL system and the EBL software version. EBLWeb is described in chapter 10. EBLWEB.

A Config tool (included in EBLWin) is used for configuration of the web-server. The configuration is downloaded to the web-server via TCP/IP. The web-server software is also downloaded via this tool.

NOTE! The EBLWin version has to be the same as the EBLWeb software version regarding the two first digits, for example version 2.5.x.



The web-server II is used when one c.i.e. or a system with two or more c.i.e. in a TLON Network shall be connected to Internet/Intranet (LAN), to a Security Management System and/or as a Gateway. The unit can be used:

- For presentation of actual c.i.e status in a computer using the web browser. It can also send e-mail in case of pre-warning, fire alarm, fault, disablement, test mode alarm, and/or service signal.
- For remote control and two-way communication. Ten different users and three access levels.
- As a gateway to other computer systems. The following alternatives are available today:
    - EBLTalk (RS232 or TCP/IP) is an open protocol, used to transmit and present fire alarm information in a separate computer / system.
    - ESPA 4.4.4 (RS232) used to transmit and present fire alarm information in a paging system.
    - SIA (RS232) used to transmit and present fire alarm information in a separate computer application.
    - MODBUS (RS232 or TCP/IP) used to transmit and present fire alarm information in a separate computer application.
- As a gateway to a security management system via EBLNet (TCP/IP). EBLNet license is required.

3.1. CABINET

The web-server II consists of a light grey plastic cabinet, which shall be vertically mounted on the symmetric 35 mm DIN rail inside the c.i.e.

3.2. ETHERNET COMMUNICATION (10 BASE-T)

10BaseT (RJ-45) connector for a standard Ethernet cable (Ethernet cable is not supplied). This interface is used to connect the Web-server II to the Internet / intranet (LAN); Ethernet.
It is also used for EBL Talk via TCP/IP (EBL512 G3 only), and MODBUS V2 via TCP/IP.

3.3. PLC COMMUNICATION (RS232C)

RS232C (without handshake) connector. Two RS232 cables are supplied. The cable shall be connected to the plug-in screw terminal block (Send – Receive – Ground). This interface is used to connect the Web-server II to an EBL512 G3 or EBL128 c.i.e.

3.4. MODEM COMMUNICATION (RS232C)

The Web-server has a 9 ways male “D” connector MODEM COM (cable, with a corresponding female connector, is not supplied). This interface is used to connect the Web-server II to a modem or a separate system (PC) when one of the gateway functions is used. The interface is also used to connect to an external Panasonic FP OPC Server.

1 –
2 RXD
3 TXD
4 –
5 GND
6 –
7 RTS
8 CTS
9 –

3.5. LED INDICATORS

There are three LED indicators on the Web-server II:

- **POWER:** Indicating that the power supply is connected and is working.
- **COM:** Indicating:
    - Ethernet connection (continuously)
    - Ethernet data exchange (blinking)
- **COM:** Not used.

4. POWER SUPPLY

24 V DC (Molex 3.5) connector. Two power cables are supplied.
The EBL512 cable (3 m) has a plug-in connector for the Web-server II and shall be connected to a 24 V power supply (to the EBL512 c.i.e. or an external power supply) as follows:
Brown: +24 V DC;
Black: 0 V (GND);
Blue: Function earth (must be connected to **F**rame **G**round).

The EBL512 G3 and EBL128 cable (0.65 m) has two plug-in connectors. One is for the Web-server II and the other can be directly connected to "J4" at the EBL128 c.i.e board. For system EBL512 G3, the following is valid: One is for the Web-server II and the other cable connector has to be removed. The wires shall then be connected to the following screw terminals on the main board:
Brown to "J3:1" (+24 V DC),
Blue to "J3:2" (0 V) and
Green to "J2:3" (Earth).

5. SOFTWARE

Depending on the downloaded software, the web-server II can be used for WebG3, Web128, EBLWeb, or OPC512 G3.

5.1. EBLWEB

This hardware and software combination is a web-server.
EBLWeb is the software for EBL512 G3 (version ≥ 2.0) or EBL128 (version ≥ 2.0)
The Web-server II with the EBLWeb software is used when one EBL512 G3 / c.i.e. or an EBL512 G3 system with two or more c.i.e. shall be connected to Internet / an intranet (LAN), to a Security Management system and/or as a Gateway as follows:

- For presentation of the actual EBL512 G3 status in a PC (web browser).
- For remote control of the EBL system (via encrypted and safe two-way communication).
- As an e-mail client.
- EBLnet (via TCP/IP), for connection of an EBL system to a Security Management system.
- As a Gateway.

5.2. WEBG3 / WEB128

This hardware and software combination is a **Web-server** for older systems (EBL512 G3/EBL128 ≤ 2.0.x).
The Web-server II with the WebG3 / Web128 software is used when one EBL512 G3 / c.i.e. or an EBL512 G3 system with two or more c.i.e. shall be connected to Internet / an intranet (LAN), to a Security Management system and/or as a Gateway, as follows:

- For presentation of the actual EBL512 G3 / EBL128 status in a PC (web browser).
- For remote control of the EBL system (via encrypted and safe two-way communication).
- As an e-mail client.
- EBLnet (via TCP/IP), for connection of an EBL system to a Security Management system. (EBL512 G3 only)
- As a Gateway.

5.3. OPC512 G3

This hardware and software combination is an "interface" to an **OPC-server**.
The Web-server II with the OPC512 G3 II software (=an OPC-server) connects an external Panasonic FP OPC Server to the EBL512 G3 system.
An external Panasonic FP OPC Server allows high-performance data transfer between applications supporting the universally accepted OPC DA Standard (v1-v3)

6. CONFIGURATION OF EBLWEB

The EBLWeb is configured via EBLWin. The EBLWeb software, the configuration data and the site specific data (SSD) will be downloaded to the web-server via TCP/IP, See EBLWin menu Tools.
All the EBLWeb related menu options and dialog boxes in EBLWin are described in the following chapters.

6.1. WEB-SERVER

To configure a web-server for the EBL-system, a web-server must be added to a c.i.e. (Control unit pop-up menu, Add web-server). Up to five web-servers may be added to the EBL-system, with a limit of one web-server per c.i.e.
Once added, a properties dialog box for the Web-server will be opened. More about each setting will be described below. The properties dialog box can always be accessed by right-clicking at a web-server in the EBLWin treeview, and select properties.

6.1.1. GENERAL INFORMATION

Since there is a limitation of the maximum numbers of web-servers for an EBL system, each web-server must have a unique **technical address (0-4).** A default web-server Name is shown. The web-server **name** is shown in the treeview of EBLWin.

6.1.2. UNIT INFORMATION

To be able to download a specific configuration to a specific web-server, the **hardware ID** (normally five characters) is required to identify the web server unit. This ID can be found in the label on the backside of Web-server II. (ID:12345)

6.1.3. UNIT SETTINGS

IP ADDRESS SETTING

Use DHCP: Select this option when a dynamic IP number shall be used (instead of a static, see below).
Device name: It is always recommended to have a device name, not only when a dynamic IP number is used.
If a static IP number shall be used the following data have to be specified:

- IP address (for web-server)
- Netmask
- Gateway

DNS SETTING

Use DNS: Select this option when Domain Name Server shall be used. DNS is used to translate hostnames into IP addresses.
Primary DNS: The IP address to the primary DNS
Secondary DNS: The IP address to the secondary DNS

NTP SETTINGS

Normally the c.i.e. no. 00 in an EBL512 G3 system will send out the date & time every day at midnight, to synchronize the clock in all c.i.e in the system as well as the clock in Web-server II.
For continuous correct time and synchronization of all the clocks an NTP server can be used. In this case, synchronization will be done one hour after midnight every day.
NTP server: The NTP server's IP address. If DNS is selected (see above) the server name is used instead.

EVENT LOG

All the events in the EBL-system will also be stored in the web-server internal RAM. In case of a power-loss (or unexpected reboot), the event log will be lost.
Daily log save: The event log will be automatically saved to flash memory once every day (one hour after midnight).

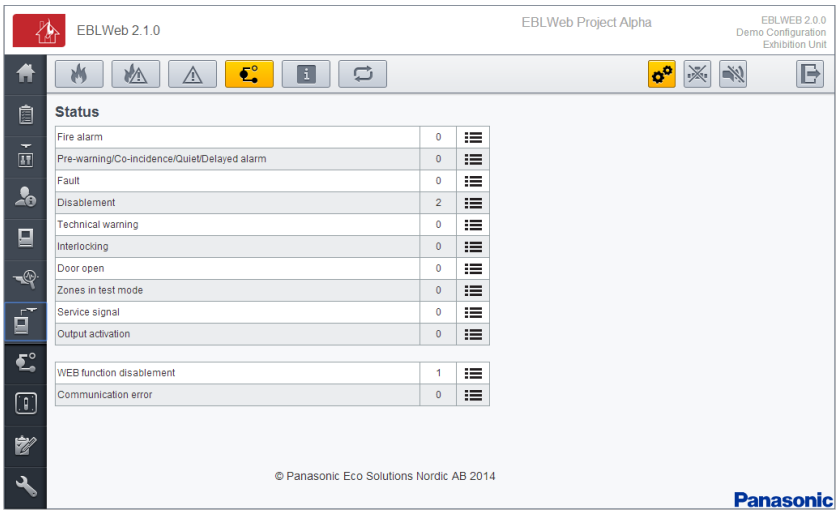
FTP/TELNET ACCESS

When the Web-server shall be configured (programmed) via the PC tool, this will be done via FTP/Telnet via a LAN network (or crossed Ethernet cable or a hub). For safety reasons, **username** and **password** are used for FTP/Telnet. The default username/password is **ftp/ftp**, but this can be changed.
New username: Type the new username.
New password: Type the new password. (Only dots will be displayed.)
Confirm password: Re-type the new password once more. (Only dots will be displayed.)

NOTE! The new username and password will not be valid until after download and restart of the Web-server.

6.1.4. BROWSER SETTINGS

Settings in this tab page are related to how the web browser access and displays the web pages.



PROJECT NAME / CUSTOM TEXT

Project name and custom text are shown in the upper-right corner of the web pages.
Project name: a row of text that can be used to identify which EBL system this web server belongs to.
Custom text: Three rows of text for some additional information that can be shown, for example contact information.

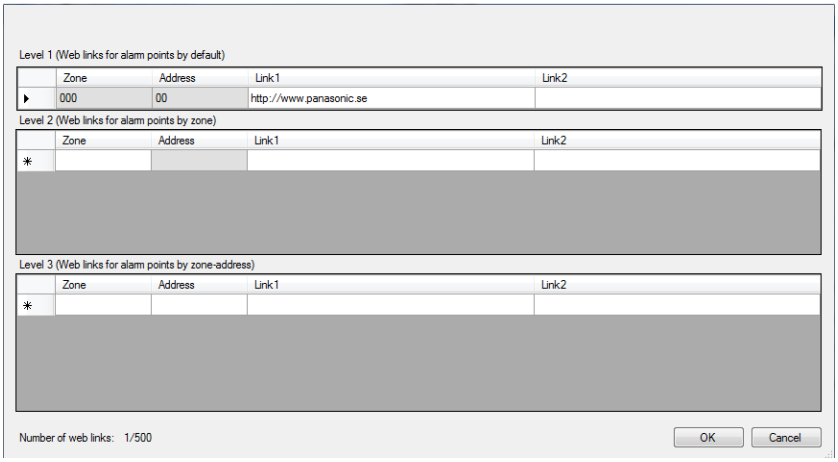
CUSTOM LOGO

The custom logo will be shown in the lower-right corner of the web pages.
Browse: Opens a dialog to select an appropriate image (jpg, gif, bmp) used for logo. Recommended format size of image is 210x56 pixels.
If no **custom logo** is selected, the Panasonic logo will be used.

WEB LINK

If an alarm point is presented, it is possible to press the hyperlink for fore example a document or a camera to get more information about the alarm point. Up to 500 links can be used.

Web Links Settings



The web links are based on three levels:

- **Level 1** is used to configure two links for all alarm points in the system. The links configured here will fully cover zone-addresses from 001-01 to 999-99.
- **Level 2** is used to configure two links for specific zones in the system. One zone per row. The links configured here will cover a full zone from ZZZ-01 to ZZZ-99, where ZZZ can be any zone from 001-999.
- **Level 3** is used to configure two links for specific alarm points in the system. One alarm point per row. The links configured here will cover one zone-address. 001-01 to 999-99 can be used.

BROWSER ACCESS

The web pages are by default configured to be accessed without encryption with **http**, but if more safety for access is needed, **https** access with encrypted communication via **SSL** can be used.
Browser URL: Type the web-address (URL) for accessing this web-server. This will be used as Web-server URL in e-mails, if used.

- http://x
- https://x
- http/https://x

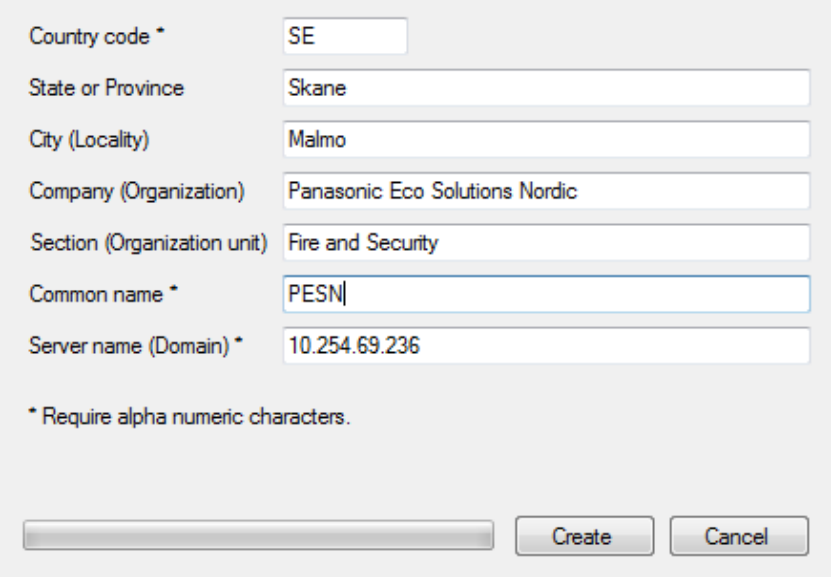
x = IP-address or the Device name.

SSL CERTIFICATE

If https is going to be used for webpage access, the SSL certificates needs to be defined.
There are two ways to define SSL certificates in the configuration. Either **self-issued certificate** or **vendor-issued certificate** can be used.

SELF-ISSUED

It is possible to create certificates in the configuration tool in EBLWin, but the certificate it creates using OpenSSL are not verified by any trusted certificate authority, thus a warning might be shown in the web browser.



Press the **Create** button to open dialog to create certificate.

Once created the **Create** button will change to **completed** to show that the certificate already has been created.
The **Retrieve** button is used to retrieve and save the current certificate (CACERT.crt) in some other place in the computer.

VENDOR ISSUED

If the certificates are **vendor-issued**, it can be configured to the EBLWeb with this option.
CA certificate: Type the path and file name (for example intermed.pem) or use the **Browse** button.
Private key: Type the path and file name (for example privkey.pem) or use the **Browse** button.
Server certificate: Type the path and file name (for example cert.pem) or use the **Browse** button.

6.1.5. GATEWAY/EBLNET SETTINGS

The EBLWeb is not only a web-server but can also be a gateway to another system.
One of the following gateway types can be selected:
None: No gateway function will be used.
ESPA 4.4.4: Used when fire alarm information shall be transmitted to and presented in a paging system.
EBLTalk: Used when fire alarm information shall be transmitted to and presented in a separate PC system, via RS232 or via TCP/IP. EBL Talk is an open protocol. For more information see "EBL Talk Protocol" Technical Description (MEW00532).
SIA: Used when fire alarm information shall be transmitted to and presented in a separate PC system, via the SIA protocol.
MODBUS: Used when fire information shall be transmitted via MODBUS protocol. Only occurrence of fire alarm per zone is registered.
MODBUS V2: Used when fire information shall be transmitted via MODBUS protocol via TCP/IP. Status information per alarm-point is registered.

COM PORT SETTINGS

COM port settings are used for the serial communication (RS232) setup used with EBLTalk or ESPA 4.4.4 protocols.
Normally **defaults** settings are used for EBLTalk or ESPA 4.4.4, but it's possible to change to suitable settings depending on corresponding client communication settings.
Press the **Reset defaults** button to restore the defaults settings for COM port.

EBLTALK SETTINGS

EBLTalk can be used via COM-port (RS232) or via Ethernet TCP/IP port

SIA SETTINGS

Client IP (MAS) address and **Sender ID** are required. (Provided via the Local Area Network (LAN) administrator and/or SIA administrator.)

ESPA 4.4.4 SETTINGS

ESPA 4.4.4 uses a COM-port and need a ESPA file to be defined. A ESPA file has to either be created (**Create**) or an existing file has be selected (**Browse**).

MODBUS SETTINGS

MODBUS uses a COM-port and only 8 bits data with 1 stopbit is supported. A **slave ID** needs to be defined which is used by a Modbus software to retrieve data.

MODBUS V2 SETTINGS

MODBUS V2 uses default TCP/IP port 502. A **slave ID** needs to be defined which is used by a Modbus software to retrieve data.

EBLNET SETTINGS

EBLnet is used to connect the EBL system to a Security Management system.
EBLnet license 5097 is a kit containing:

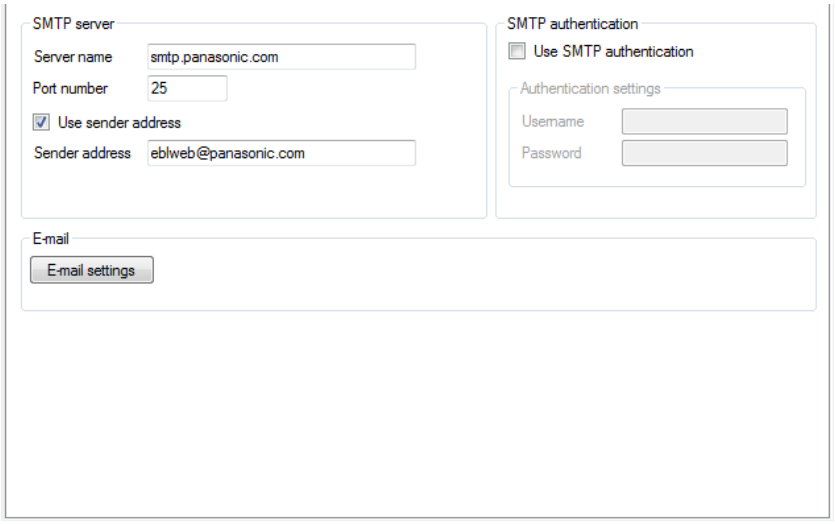
- **EBLnet** license number document

- **EBLnet** license number label
- User instructions (MEW01479)

Use EBLnet: Has to be selected to activate the EBLnet function.
This has to be done before the Web-server can be connected to the Security Management system.
NOTE! An EBLnet key is also required. How to receive it and use it is described in the User instructions (MEW01479).
Port number: A port shall be set. Provided via the Local Area Network (LAN) administrator.
NOTE! Port 80 is used for the Web-server and cannot be used here and if the Gateway function "EBLTalk (TCP/IP)" is used, its port cannot be used here.

6.1.6. NOTIFICATION SETTINGS

The web-server can be configured to send e-mails if some type of events occur. Six different types of e-mails, based on the type of events, can be sent.



SMTP SERVER

IP address / Server name: Type in the **IP address** for a SMTP server or type in the SMTP **server name** if DNS is used.

Port number: Type in the port number for smtp server, the default port is **25**.
Sender address: The address that will be shown as sender in e-mails sent from the web-server.

- Unchecked checkbox: default sender address “EBLWebMail” will be used.
- Checked checkbox: Write the wanted sender address.

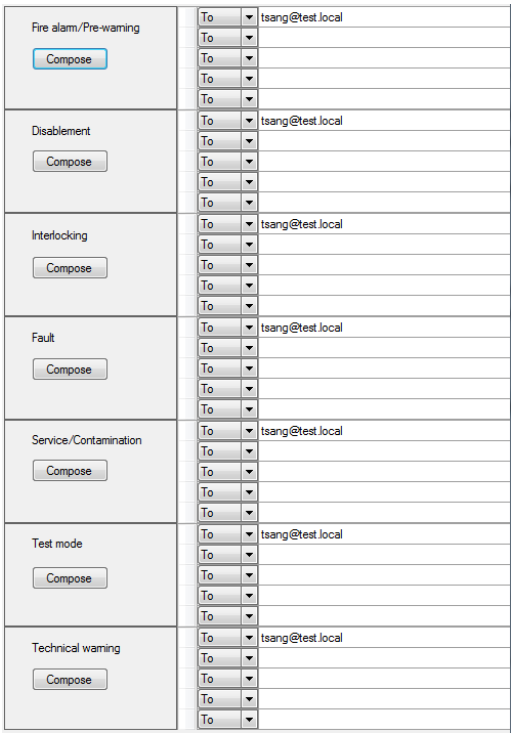
NOTE! The default sender address might not work for some SMTP servers that require a valid sender address.

SMTP AUTHENTICATION

Used if SMTP server requires authentication before sending e-mail.
Username: Username for the SMTP server.
Password: Password for SMTP server.
NOTE! EBLWeb only supports authentication using PLAIN, LOGIN or CRAM_MD5.

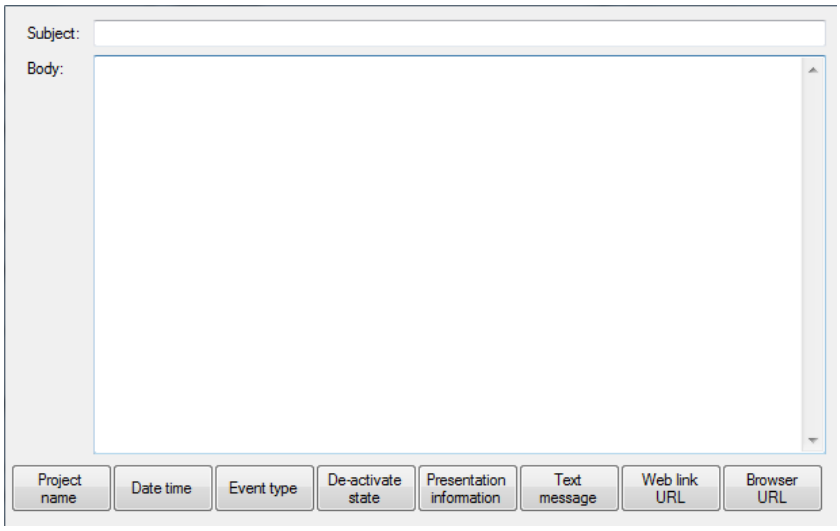
E-MAIL

Press on the **E-mail settings** button to open a dialog for configuration of each e-mail type. Up to five e-mail addresses can be configured for each type of e-mail and each e-mail address can be send as **To**, **CC**, or **BCC** address.
Press the **Compose** button for respective e-mail type to open a compose dialog box.



Subject: An e-mail "Subject" text shall be written, for example "Fire alarm". The "Subject" text will be shown in the receivers e-mail Inbox list view, together with the name of the e-mail sender, date and size.

Body: An e-mail "Body" text shall be written. Up to 500 characters can be used, including some parameters (see below).
The parameters will in the receiver's e-mail be replaced with the information they represent.



FIRE ALARM / PRE-WARNING E-MAIL

The following parameters can be used together with any other text in the **subject** and **body** text.

{Project name}: The custom name of the project which is configured in Browser settings, see section 6.1.4. BROWSER SETTINGS.

{Date time}: Date and time for occurrence of an event.

{Event type}: Type of alarm, i.e. pre-warning, heavy smoke etc.

{De-activate state}: Show if the alarm goes back to normal state for pre-prewarning, or the alarm point is reset.

{Presentation information}: The presentation number i.e. Zone-address.

{Text message}: The user definable **alarm text** showed in the fire alarm system c.i.e. displays, for the alarm point respectively.

{Web link URL}: The links associated with an alarm-point, see section 6.1.4. BROWSER SETTINGS.

{Browser URL}: The URL to access the web-server.

DISABLEMENT E-MAIL

The following parameters can be used in the **subject** and **body** text.

{Project name}: The custom name of the project which is configured in Browser settings, see section 6.1.4. BROWSER SETTINGS.

{Date time}: Date and time for occurrence of an event.

{De-activate state}: Show if the disablement is re-enabled.

{Text message}: The **disablement text** shown in the fire alarm system c.i.e. displays.

{Web link URL}: The links associated with an alarm-point. See section WEB LINK.

{Browser URL}: The URL to access the web-server.

INTERLOCKING E-MAIL
{Project name}: The custom name of the project which is configured in Browser settings, see section 6.1.4. BROWSER SETTINGS.
{Date time}: Date and time for occurrence of an event.
{Event type}: Type of activation, i.e. INPUT, OUTPUT, or INPUT/OUTPUT activation.
{De-activate state}: De-activation of interlocking.
{Presentation information}: The presentation number i.e. Area-Point.
{Text message}: The user definable **interlocking text** shown in the fire alarm system c.i.e. displays.
{Browser URL}: The URL to access the web-server.

FAULT E-MAIL
{Project name}: The custom name of the project which is configured in Browser settings, see section 6.1.4. BROWSER SETTINGS.
{Date time}: Date and time for occurrence of an event.
{De-activate state}: Show if fault is serviced.
{Presentation information}: The presentation number i.e. Technical number or/and Zone-address.
{Text message}: The **fault text** shown in the fire alarm system c.i.e. displays, for the fault respectively.
{Web link URL}: The links associated with an alarm-point, see section 6.1.4. BROWSER SETTINGS.
{Browser URL}: The URL to access the web-server.

SERVICE / CONTAMINATION E-MAIL
{Project name}: The custom name of the project which is configured in Browser settings, see section 6.1.4. BROWSER SETTINGS.
{Date time}: Date and time for occurrence an event.
{De-activate state}: Show if service signal is acknowledged.
{Presentation information}: The presentation number i.e. Zone-address.
{Web link URL}: The links associated with an alarm-point, see section 6.1.4. BROWSER SETTINGS.
{Browser URL}: The URL to access the web-server.

TEST MODE E-MAIL
{Project name}: The custom name of the project which is configured in Browser settings, see section 6.1.4. BROWSER SETTINGS.
{Browser URL}: The URL to access the web-server.
NOTE! The **body** text will automatically also show a list of the tested alarm points.

TECHNICAL WARNING E-MAIL
{Project name}: The custom name of the project which is configured in Browser settings, see section 6.1.4. BROWSER SETTINGS.
{Date time}: Date and time for occurrence of an event.
{De-activate state}: Show if technical warning is serviced.
{Text message}: The **technical warning text** shown in the fire alarm system c.i.e. displays, for the technical warning respectively.
{Browser URL}: The URL to access the web-server.

7. SOFTWARE AND CONFIGURATION

The EBLWeb is mainly consisting of two parts that need to be downloaded into Web-server II, to be fully functional.

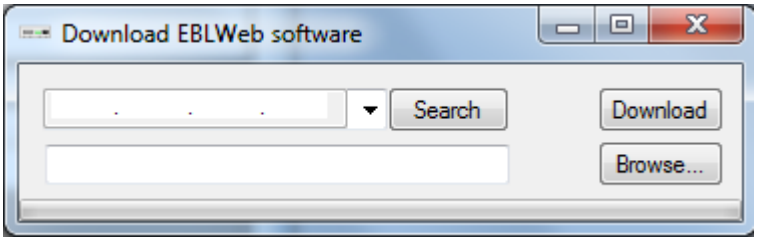
- The software package (EBLWeb220_ENGLISH.BIN)
- The web-server configuration data and the EBL-system SSD.

7.1. EBLWEB SOFTWARE PACKAGE

The software package consists of all necessary files and configurations to make EBLWeb function as default, without any specific configuration. The specific language of preference is included in this package.

7.1.1. DOWNLOAD EBLWEB SOFTWARE

Press **Download EBLWeb software** in the **Tools** menu of EBLWin.



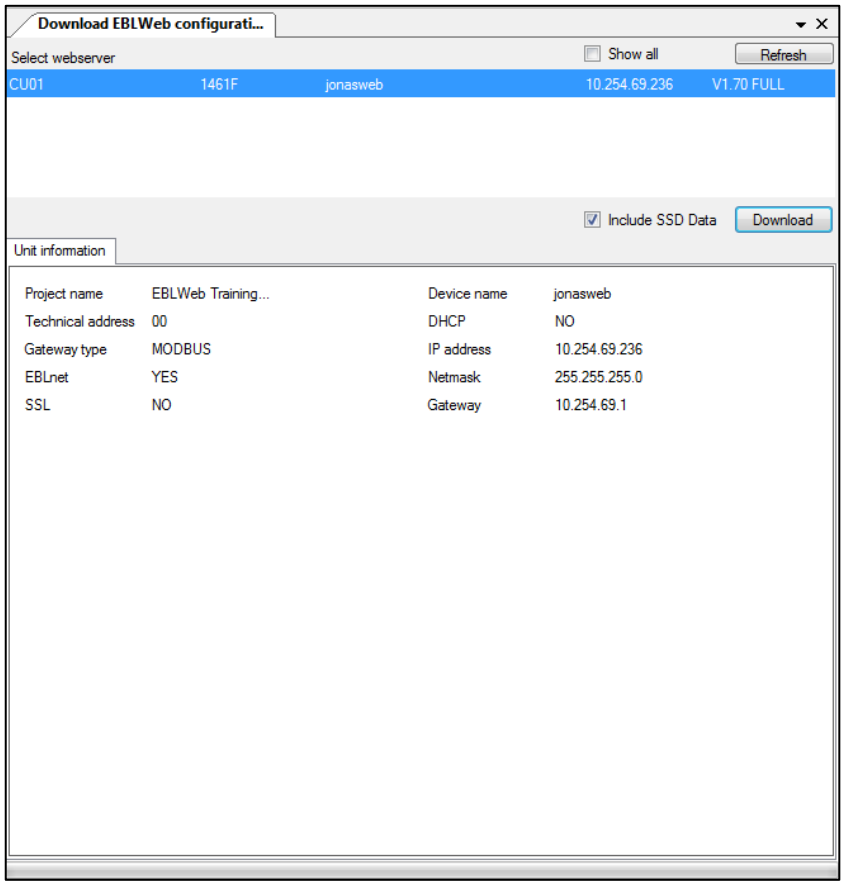
Press **Search** to look for all available web-servers in the current network, and select the corresponding one for software download.
Press **Browse**… to open the software package (EBLWeb250_ENGLISH.BIN) that should be downloaded. Once the download is finished, a restart is required before the new software functions, but a pop-up dialog will ask if the user wants to download configuration data before doing a restart. If user decides to do a restart without downloading any configuration data, another pop-up will ask for login to Telnet for making a restart command. Once restarted the web-server will work as default without any specific configuration.

7.2. EBLWEB CONFIGURATION DATA

The configuration data consists of the specific settings that are made via the web-server properties, see 6.1. WEB-SERVER. When downloaded configuration data will also include a backup of the configuration that can be retrieved with via upload, see 7.2.2. BACKUP (UPLOAD).

7.2.1. DOWNLOAD EBLWEB CONFIGURATION

Press **Download EBLWeb configuration** in the **Tools** menu of EBLWin.



The web-server list in the top only shows all web-servers that are configured with a valid hardware id, see 6.1. WEB-SERVER, and connected to the LAN. If the list does not show any web server though a valid hardware id is configured, then network access to retrieve the web servers from the LAN might have been blocked by a firewall. Please permit EBLWin to access the network through firewall.
Select a web-server for download of configuration data.
Once the download is finished, a pop-up will remind the user that the web-server will automatically restart and needs to wait approximately 30 seconds before being accessible again.

7.2.2. BACKUP (UPLOAD)

Backup of configuration data can be done by pressing on the **Backup EBLWeb configuration** in the **Tools** menu.
The backup dialog is similar to the download dialog, see 7.2.1. DOWNLOAD. It requires an added web-server in treeview with valid hardware id, which would be shown in the web-server list. This is where there backup configuration will be stored once uploaded.

7.3. SITE SPECIFIC DATA (SSD)

Site specific data (SSD) is user configurable data from the EBLWin that is used in the EBL system including all control units. This data includes specific data such as, **user data** and **alarm points** in the system, etc. This SSD needs to be downloaded into the web-server as well, since the EBLWeb needs the user data for its user handling system, and also for keeping track of how many control units the EBL system consists of. The download of SSD data can be done in three ways.

- Via download of configuration data.
- Via download of SSD for control units.
- Via individually download for each web-server.

7.3.1. DOWNLOAD VIA CONFIGURATION DATA

This is done by checking **Include SSD Data** via the download of EBLWeb configuration dialog, see 7.2.1. DOWNLOAD.

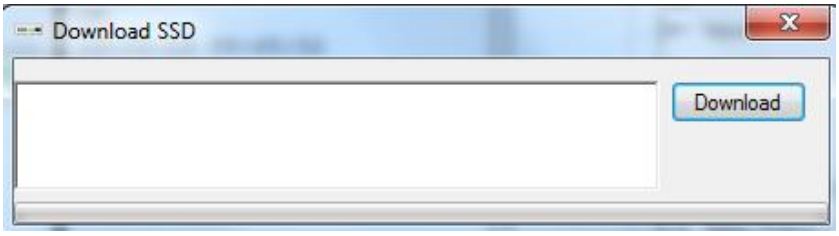
7.3.2. DOWNLOAD VIA DOWNLOAD SSD FOR C.I.E.

When downloading SSD for control units in EBLWin, there is a choice to **Download webserver SSD** in the dialog box. If this is selected, the SSD will be downloading for each connected web-server in each ci.e.

NOTE! EBLWin has to be logged on to the EBL system.

7.3.3. DOWNLOAD VIA INDIVIDUAL MENU

The SSD can be specifically downloaded to each web-server by right-clicking in respective web-server and select **Download SSD**….



NOTE! EBLWin has to be logged in on the EBL system.

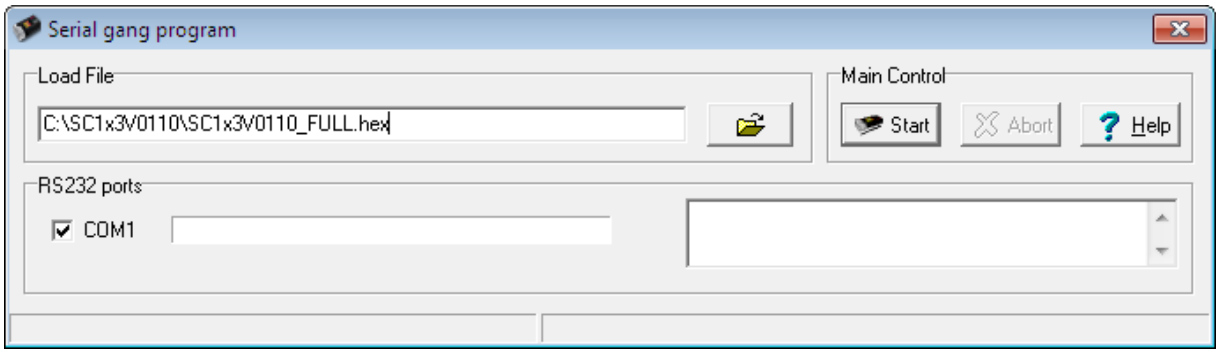
8. ADVANCED CONFIGURATION

8.1. CHIPTOOL

In case of a failed download of new configuration, an incomplete or corrupted configuration might have been downloaded into the Web-server, causing it to keep rebooting or loses communication.
If there´s no other way to get in contact with the Web-server, a solution is to try to recover the unit by formatting the web-server using Chiptool.

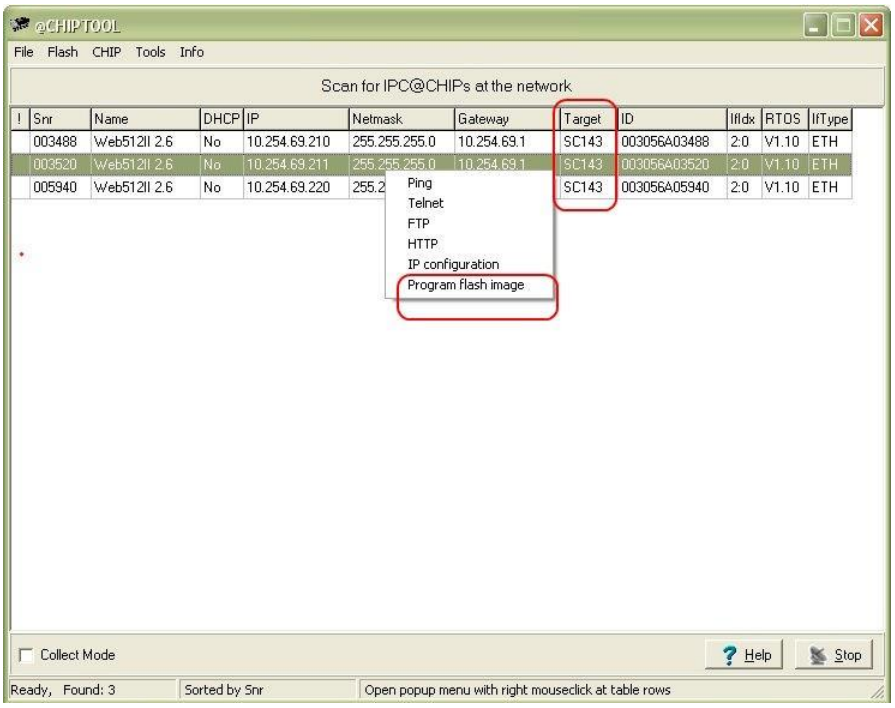
8.2. FORMATTING THE WEB SERVER

Normally Chiptool will be able to detect the Web-server when connected to the same network. If the Chiptool doesn´t detect the Web-server and it´s not shown in the list of units, it´s still possible to format it using RS232 connected to PLC Com. The dialog for this is in menu Flash-> Serial gang program.

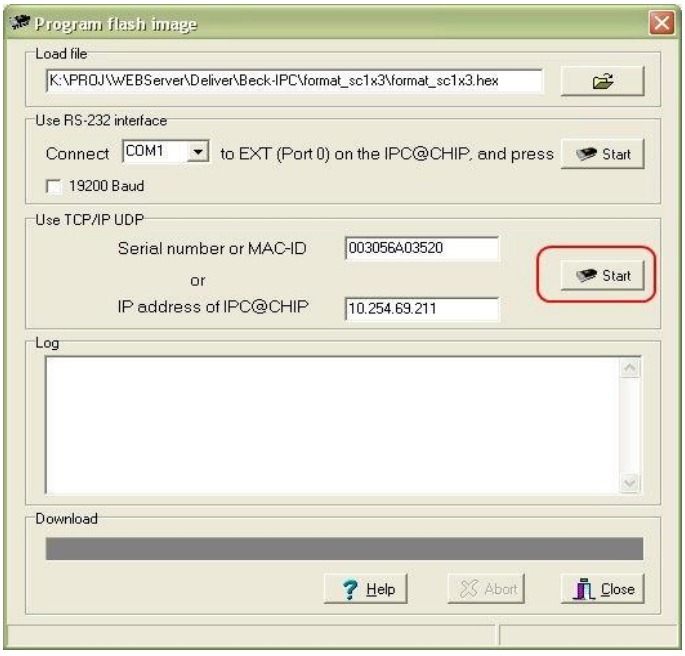


After formatting the unit using RS232, set the IP address, see 8.3. SET IP-ADDRESS.

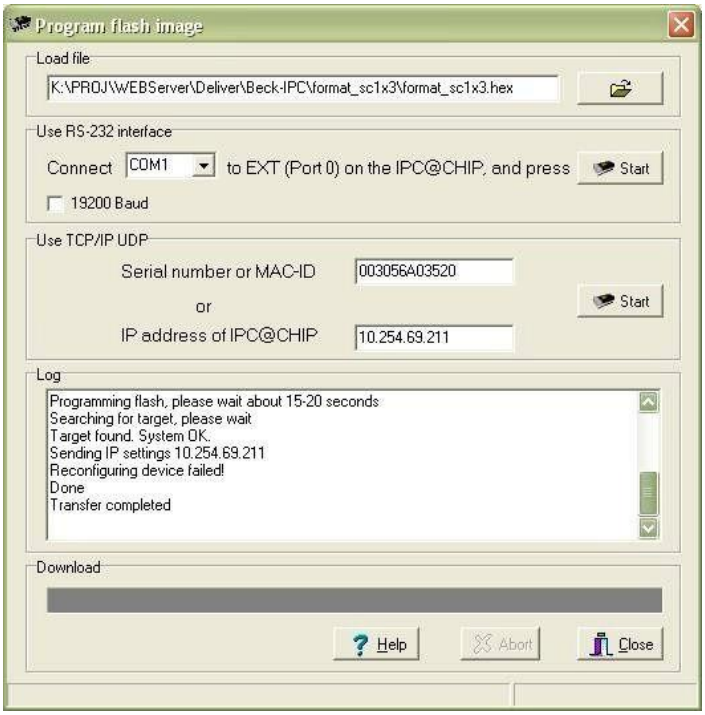
a) Right click on the web-server to be formatted and choose **Program flash image**. **NOTE!** The target type should be SC143.



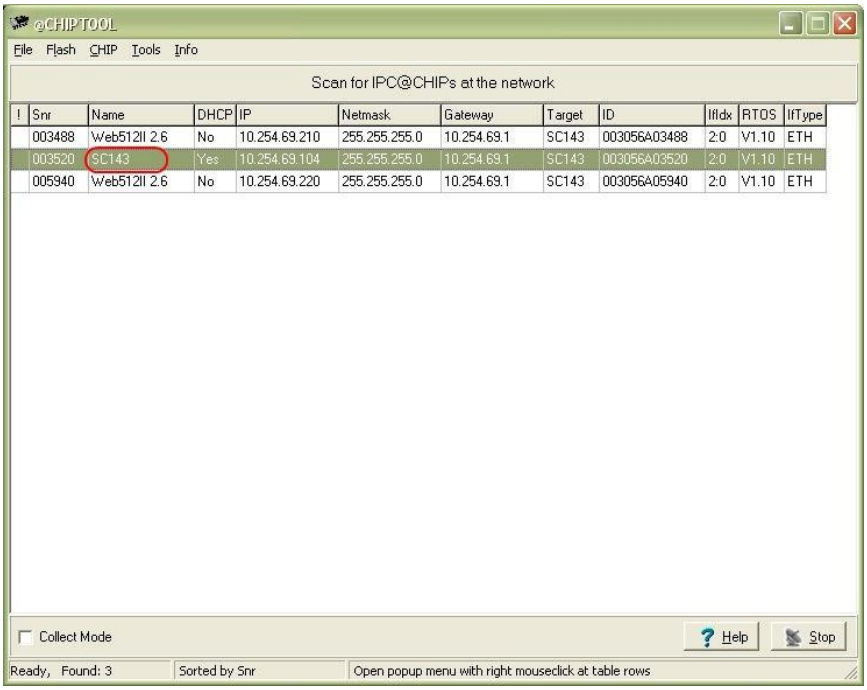
b) In the **Program flash image** window, enter the file-path in load file for ***format_sc1x3.hex*** (for format) or ***SCIx3Vxxxx_FULL.hex*** (for upgrade RTOS). Afterwards, press the **Start** button residing in "Use TCP/IP UDP".



c) The format program will be downloaded to the web-server. When the download is complete, it will say “Transfer completed” in the **Log** field.



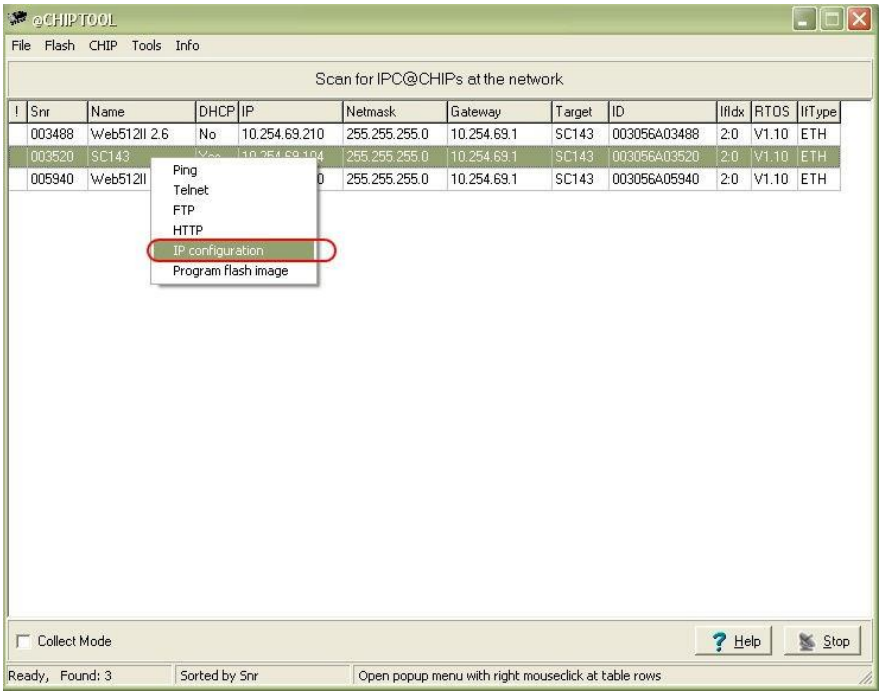
d) It shall now be possible to close the window for **Program flash image**. After a while the Chiptool should be able to find the newly formatted Web-server, which has changed its name to default name: SC143.



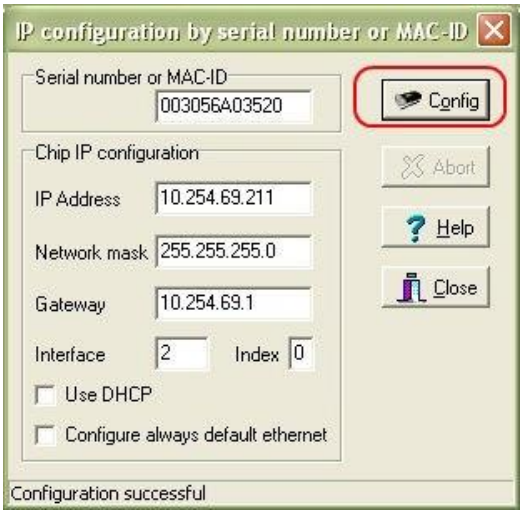
8.3. SET IP-ADDRESS

Set the IP address to suit the current network.

a) Right click on the current Web-server and select **IP configuration** to re-configure the IP-address. This is needed to save the IP-configuration as a file into the Web-server (chip.ini), which is currently using a temporary DHCP configuration.



b) Enter the IP-configuration in the pop-up window and press **Config** to save it.



Now Chiptool shall be able to find the Web-server with the new IP-setting. With the formatting done, it should now be possible to use Web Config Tool to configure the Web-server.

8.4. SPECIAL CASES

8.4.1. RETRY THE IP-ADDRESS VIA DHCP

When using DHCP, the webserver will try to retrieve an IP-address from the network-router automatically. But some may experience that the webserver doesn't get any valid IP-address due to different circumstances, such as;

- webserver boots up before the router is ready
- the network cable wasn't connected when the webserver started up.
- a system where the web-server and the router always starts up simultaneously.

In those cases, the webserver might miss the chance to receive a valid IP-address via DHCP, and creates its own address. For a small system, just restart the web-server. For a system with many web-servers, an automatic retry is useful.

It's now possible to activate a function in the webserver, to make it retry to retrieve an IP-address via DHCP for a certain time interval. This is done by manual settings in chip.ini.

To enable the function, change the following in chip.ini. :

```
[AUTOETH]
WTIME=5
ENABLE=1
```

This will enable the function to refresh the network-card status every 5 seconds.

ACCESS Chip.ini

To access the chip.ini, use a ftp-client and log into the webserver (default username/password is ftp/ftp). Download chip.ini from the root directory and make your changes. Once the changes are made, upload the chip.ini back to the webserver and reboot the unit.

9. OLD VERSIONS - CONFIG TOOL

The Web-server II has to be configured via a Config Tool, a computer program.
Different Config Tools are used depending on if the Web-server II shall be used with WebG3/ Web128 software, or OPC512 G3 software. The Config tool version has to correspond with the EBL software version.

During the installation of the Config tool, a message may be shown that .NET Framework has to be installed on the computer. More information and a free download are available on the Microsoft web site.

Information and help regarding every tab / dialog box in the Config Tool respectively can be found in the Config Tool help as well as in separate documents.

A new Config Tool version will always be released together with a new EBL512 G3 / EBL128 software version.

10. EBLWEB

The following chapter describes all EBLWeb functions.

There is no support for anonymous login. A user with at least lowest priority level is required to be configured via EBLWin, even if web-server is to be used for status information only.

User level 1 (Information only)
User level 2 (Building Officer)
User level 3 (Service Personnel)

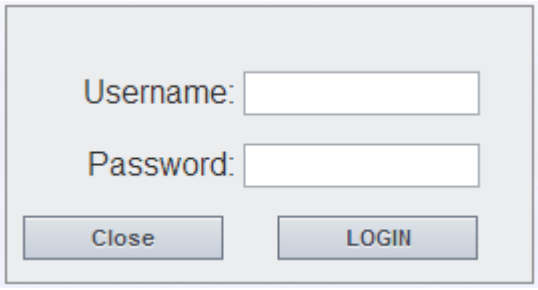
For remote operations and access to corresponding information, a **username** and a **password** are always required for at least **user level 2** (Building Officer).

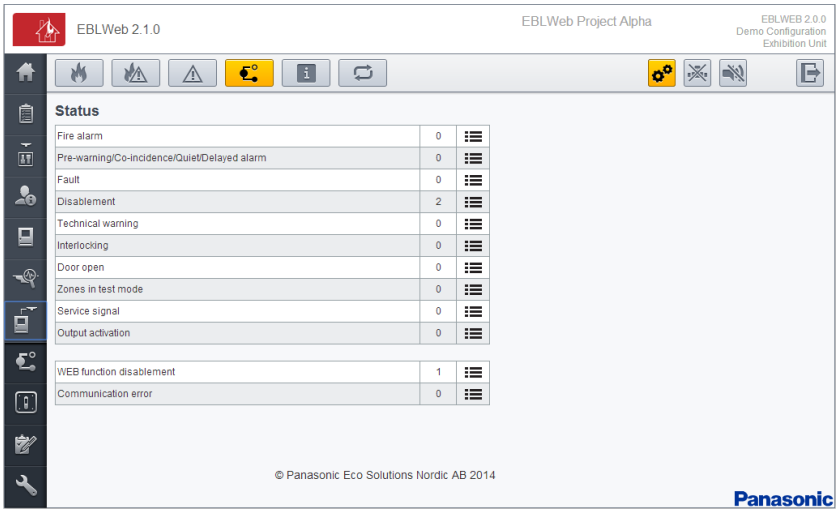
The EBLWeb has to be configured via the PC tool EBLWin, and it uses the same usernames and passwords as configured for the EBL-system.

NOTE! It is also possible to configure a user with web-server access only in EBLWin. In this case a stronger password can be defined. The password should consist of 6-10 characters and letters, digits and alphanumeric characters can be used. The letters are case sensitive.

10.1. USER LOGIN

Username: Type the Username for the user level
Password: Type the Password for the user level
Press **LOGIN** to open Status – summary view.





Depending on the login User level (which is depending on Username and Password), different buttons can be used, for example access to remote operations and other information or general information only.

The view is continuously updated approximately each 10th seconds.

In case of inconsistency between EBLWeb and EBL512 G3/EBL128, synchronization can be done. After restart of the web-server, synchronization is done automatically.

10.2. USER LOGOUT

To logout the current session in EBLWeb, press the logout button in the upper-right corner.

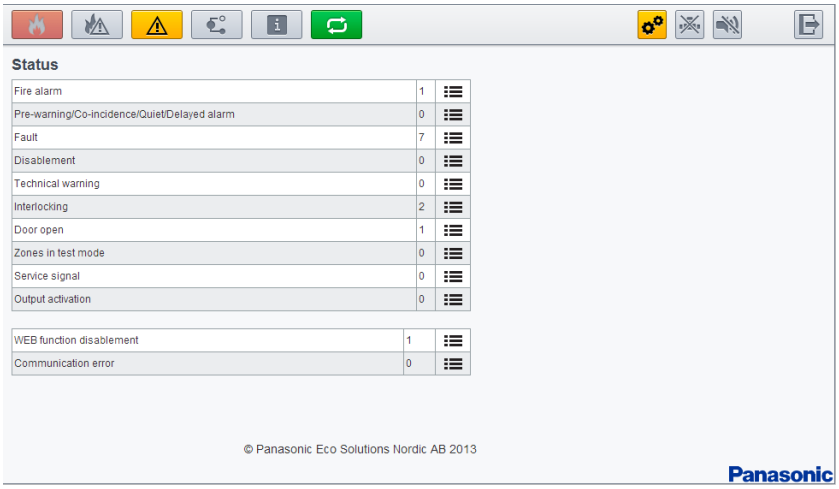
10.3. SILENCE PC BUZZER (SOUND OFF)

When a fire alarm is activated, the buzzer/speaker in the computer is used for sound alert.

Press the **Silence PC buzzer** button to silence the buzzer/speaker in the computer. The buzzer/speaker will be re-activated for a new alarm.

10.4. STATUS

After login or in any other view, press the **home/status** button to see the status summary view.



EBLWeb will present the current status of the EBL-system, showing current alarms, faults, disablements, and other deviations corresponding to the EBL CU. The status will be shown in different web-pages and also in the LED buttons on the top of the indication panel.
The LED-buttons will either blink or be constantly lit.

NOTE! The colour in the LED button is not visible until the event is activated.

The summary consists of two areas.

The EBL CU status area

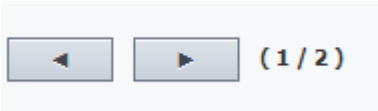
Fire alarm	
Pre-warning/Co-incidence/Quiet/Delayed alarm	
Fault	
Disablement	
Technical warning	
Interlocking	
Door open	N/A
Zones in test mode	N/A
Service signal	N/A
Output activation	N/A

The Web status area

WEB function disablement	
Communication error	

Each of the different summary items in the list will be described in the following pages.

The list page for each status can be opened through either list button ≡ or corresponding LED button. Every list can show a certain amount of items per page, and to see the total amount of pages that the list contains of, and to navigate amongst the pages, there are page handling buttons.



10.4.1. FIRE ALARM

In case of fire alarm, press on the **Fire alarm** LED button  or List button ≡ to view the fire alarm list.

The Time (date and time), Zone, Address and text (alarm text) are displayed.

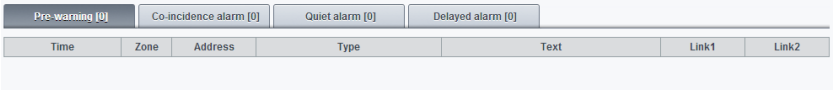
Type = Smoke, Heat, Multi, MCP, Exting.system or Other
State = Heavy smoke/heat, Test, Isolated and Alert Annunciation alarm acknowledge / not acknowledge.
Link1 = A hyperlink to open a web-camera, document, a drawing etc. for more information regarding the alarm point.
Link2 = A hyperlink to open a web-camera, document, a drawing etc. for more information regarding the alarm point.

Press the **Reset** button in the reset column for a pop-up dialog for reset of alarm. (Requires login on User level 2 or 3)

The pop-up dialog for reset of alarm gives two choices for alarm reset either reset the current alarm or reset all alarms in the fire alarm list.

10.4.2. PRE-WARNING/CO-INCIDENCE/QUIET/DELAYED ALARM

In case of pre-warning, co-incidence alarm, quiet alarm, or delayed alarm, press on the pre-warning/co-incidence alarm LED button or List button to view corresponding alarm list.
This list is separated into tab pages for respective pre-warning and alarm type.



The list is similar to the fire alarm list, see 4.4.1.

10.4.3. FAULT

In case of faults, press on the **Fault** LED button or the List button to view the fault list.

The Time (date & time), Tech.No, Zone/address (when applicable), Fault description (fault message) are displayed. State (Serviced 7 Acknowledged / “Blank” = Neither Serviced nor Acknowledged).
Text = More info, such as alarm text if the fault is related to a detector etc. Place the pointer above the information icon.
Link1 = hyperlink to open a web-camera, document, a drawing etc. for more information regarding the alarm point.
Link2 = hyperlink to open a web-camera, document, a drawing etc. for more information regarding the alarm point.

Press the **Acknowledge** button in the acknowledge column for pop-up dialog for acknowledgement of fault. (Requires login on User level 2 or 3)

The pop-up dialog for acknowledgement of fault gives two choices for fault acknowledgement, either acknowledge the current fault or acknowledge all faults in the fault list.

10.4.4. DISABLEMENTS

In case of disablements, press on the **Disablement** LED button or List button to view the corresponding disablement list. The list is separated into tab pages for respective disablement type.

Press the **Re-enable** button in the re-enable column for a pop-up dialog for re-enabling the disablement. (Requires login on User level 2 or 3)

ZONE OR ZONE-ADDRESS DISABLEMENT

The **Time** (date & time), **Zone, Address**, **Re-enable time** and **Reason** (e.g. via the menu) is displayed.
Link1 = A hyperlink to open a web-camera, document, a drawing etc. for more information regarding the alarm point.
Link2 = A hyperlink to open a web-camera, document, a drawing etc. for more information regarding the alarm point.

OUTPUT DISABLEMENT

The **Time** (date & time), **Control unit, Exp.Board**, **Loop,** and **Address** are displayed.
Output type = The type of output, such as, Control, Ventilation, Extinguisher, Alarm devices, ATR, Neutral, or FTR.
Output = The output number.
Reason = e.g. via the menu.

OUTPUT TYPE DISABLEMENT

The Time (date & time), and Control unit, is displayed.
Output type = The type of output, such as, Control, Ventilation, Ex-tinguisher, Alarm devices, ATR, Neutral, or FTR.
Reason = e.g. via the menu.

INTERLOCKING (OUTPUT) DISABLEMENT

The **Time** (date & time), **Area**, **Point** and **Text** (interlocking text) are displayed.

COM-LOOP/INPUT DISABLEMENT

The Time (date & time), Control unit, Exp.Board, Tech.No., and Loop (Input) is displayed.

OTHER (ALERT ANNUNCIATION) DISABLEMENT

The **Time** (date & time) and **Text** (disablement text) are displayed.
This list is only showing Alert annunciation disablement.

10.4.5. TECHNICAL WARNING

In case of technical warning, press on the **Technical warning** LED button or the **List** button to view the Technical warning list.
The **Time** (date & time) and **Text** (technical warning text) are dis-played.

10.4.6. INTERLOCKING

In case of interlocking input/output activations, press on the **Interlocking** LED button or the **List** button to view the interlocking list.
The **Time** (date and time), **Area**, **Point** and **Text** (interlocking text) are displayed.
Input = Input is activated.
In.Act.Time = The input activation time.
Output = Output is activated.
Out.Act.Time = The Output activation time.
Press the **Reset** button in the reset column for a pop-up dialog for reset of activated interlocking output. (Requires login on User level 2 or 3.)

10.4.7. DOOR OPEN

In case of open doors, press the **List** button to view the door list.
The **Time** (date & time) and **c.i.e.** are displayed.
FBP = The number of the Fire Brigade Panel, in case of door opened at FBP.

10.4.8. ZONES IN TEST MODE

In case of zones in test mode, press the **List** button to view the list of zones in test mode.
The Time (date & time) and Zone are displayed.
Press the **De-activate** button in the de-activate column for a pop-up dialog for de-activation of the zone in test. (Requires login on User level 2 or 3.)

10.4.9. SERVICE SIGNAL

In case of detectors having activated service signal, press the **List** button to view the service signal list.
The Time (date and time), Zone, Address, Tech.No and Text (alarm text) are displayed.
Link1 = A hyperlink to open a web-camera, document, a drawing etc. for more information regarding the alarm point.
Link2 = A hyperlink to open a web-camera, document, a drawing etc. for more information regarding the alarm point.
Press the **Acknowledge** button in the acknowledge column for a pop-up dialog for acknowledgement of service signal. (Requires login on User level 3.)

OUTPUT ACTIVATION

In case of forced output activations, press the **List** button to view the output activation list.
The Time (date & time), c.i.e., Exp.Board, Loop, and Address are displayed.
Output = The output number.
Press the **De-activate** button in the de-activate column for a pop-up dialog for de-activation of the force activated output. (Requires login on User level 2 or 3.)

WEB FUNCTION DISABLEMENT (WEB STATUS)

In case of any WEB-function disablement, press the **WEB function** LED button or the **List** button to view the WEB function disablement list.
This view shows the current status of disablement of WEB functions, such as E-mails, PC-buzzer, and Gateway. It also shows the time-stamp for previous login and current EBLWeb software version.

10.4.10. COMMUNICATION ERROR

In case of any communication error, press on the **Communication error** LED button or the **List** button to view the communication error list.
This view shows the current communication state for several kinds of communication errors as listed. If in error state, the state will be 'blinking' **Error**, otherwise a steady **Normal** will be shown.

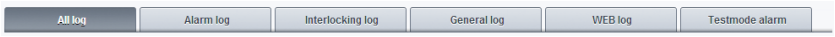
EBL - WEB	Communication between CU and WEB-server.	Could be a problem with the serial cable between the WEB-server and the CU **or** incompatible SW versions (e.g. CU is running version 2.1.x and WEB-server is running version 2.5.x).
WEB - Browser	Communication between WEB-server and browser	Normally no TCP/IP connection with WEB-server from browser.
E-mail SMTP - WEB	Communication between SMTP-server and WEB-server	Normally no access to SMTP server. No e-mail can be sent.
WEB - Gateway	Communication between WEB-server and current configured Gateway function.	Normally no replies/ACK from the gateway device.

10.5. EVENT LOG

Press the **Event log** button to show the Event log view.

The event log of EBLWeb consists of five types of logs, where three of them are the same as in the control unit, namely, Alarm log, Interlocking log and General event log. All logs in EBLWeb are circular logs. The events in an EBL-system are stored in both the EBL512G3/EBL128 c.i.e. and in the web-server.
If the web-server is disconnected, the events during that time will not be saved in the web-server, not shown in the event log. When you restart the web-server, the event log will be erased.

The **Time** (date & time), and **Event** (event text) is displayed.
Description = Additional information of the event when applicable.
User = The user that performed that specific event.
Origin = The source where the event originated from.



10.5.1. ALL LOG

The all log is a special log in EBLWeb that collect all events in the same log with a capacity of 9999 log events.

10.5.2. ALARM LOG

This log contains all alarm related events. This log shall show the same events as the CU alarm log with a capacity of 999 log events.

10.5.3. INTERLOCKING LOG

This log contains all interlocking related events. This log shall show the same events as the CU interlocking log with a capacity of 999 log events.

10.5.4. GENERAL LOG

This log contains all general events. This log shall show the same events as the CU general log with a capacity of 999 log events.

10.5.5. WEB LOG

This log contains all web related events, with a capacity of 999 log events.

10.5.6. TEST MODE ALARM

This is a log to keep track of the test mode alarms. The test mode alarms normally go back to normal after 10 seconds. This test mode alarm log is used to record the test mode alarms in a list. In this, there's a sub-menu to send this list of test mode alarms to a pre-defined e-mail recipient and also clear the list from all recorded test mode alarms.

10.6. MAINTENANCE (WEB FUNCTION)

Press the **Maintenance** button to show the Maintenance view.

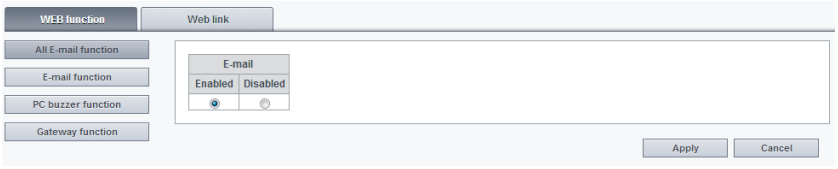
This view contains two tab pages, one for WEB functions and the other for Web links.

10.6.1.WEB FUNCTION

The tab page shows WEB function disablement page with operations to Enable or Disable the WEB function. Each function is **Enabled** or **Disabled** by a selection of the corresponding radio button. Press **Apply** to perform the action.

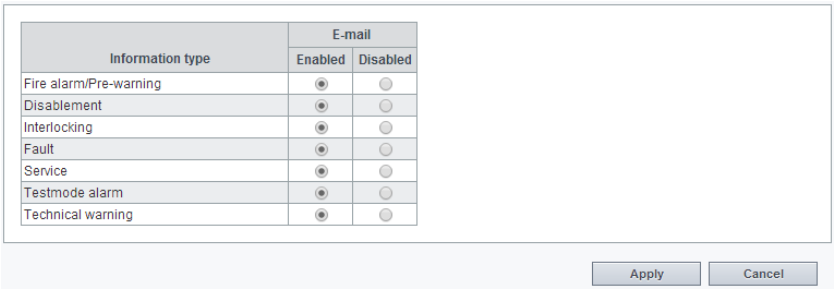
ALL E-MAIL FUNCTION

This disablement is to stop all kinds of e-mail sending from EBLWeb.



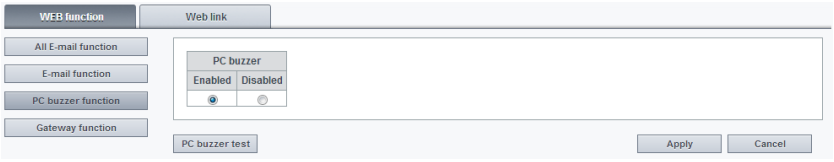
E-MAIL FUNCTION

This disablement is related to each type of e-mail, **Fire alarm/Pre-warning**, **Disablement**, **Interlocking**, **Fault**, **Service**, **Test mode alarm**, and **Technical warning**.



PC BUZZER FUNCTION

This disablement is related to the PC-buzzer, which sounds for each new fire alarm or control unit communication fault.
There is also a button for test of the PC-buzzer (four long beeps).



GATEWAY FUNCTION

This disablement will stop the Web-server to send messages to the current configured gateway, such as ESPA 4.4.4, EBLTalk, or SIA.

FTP FUNCTION

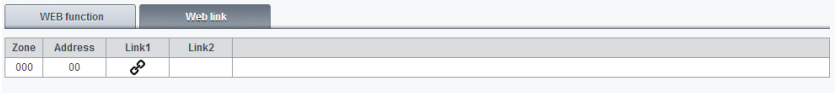
This disablement will stop the FTP access to the Web-server.

TELNET FUNCTION

This disablement will stop the TELNET access to the Web-server.

10.6.2. WEB LINK

Web links are URLs used for additional documents or web-cameras for a defined zone-address/detector. This tab page will show a list of all web links currently configured via EBLWin.



10.7. BASIC INFORMATION

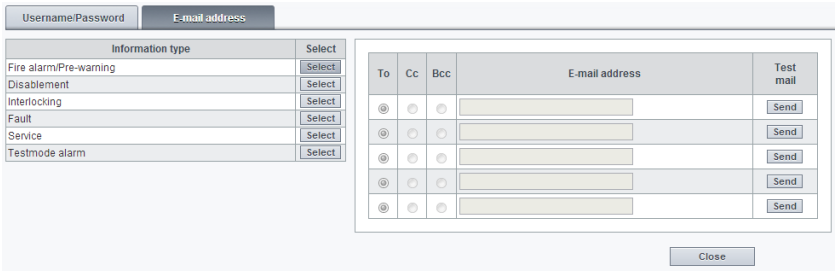
Press the **Basic information** button to show the basic information view. This view has a tab page that shows the user information for currently logged in user and another tab page for the e-mail address configuration for each e-mail type.

10.7.1. USERNAME/PASSWORD

In this view, the current user may change the user login password (press **Select**). The password change requires to input both current password and the new password. Once applying the password change, the new password will be changed for the EBL-system as well.

10.7.2. E-MAIL ADDRESS

The e-mail handling in EBLWeb handles six different types of e-mails. Each e-mail type can be disabled. See 4.6.1.2. The EBLWin configured e-mail addresses for recipients are shown in this tab page. Each e-mail address shown has a button to send a test mail to the configured e-mail address.



10.8. CONTROL UNIT

Press the **Control unit** button to access the control unit list view.

This page show all control units in the EBL-system. Each control unit row has a colored sign for synchronization status.

- BLACK Not connected.
- RED Synchronization has not started.
- YELLOW Synchronization is in progress.
- GREEN Synchronization is finished.

Which control unit should be monitored and be included in synchronization is determined by the SSD from EBLWin. Those control units that are included according to SSD, will have buttons for **Control unit statistics (Sys.info.)** and **Loop statistics**.

10.8.1. CONTROL UNIT STATISTICS (SYSTEM INFORMATION)

This page shows the system information of selected CU and consists of momentary statistics data asked from the connected CU.

The **current consumption for rectifier**, **current consumption for charger**, **battery temperature**, **low capacity voltage difference**, **site name** (also time of SSD download) and **software version** for the CU is displayed.

10.8.2. LOOP STATISTICS

This page shows the COM loop statistics for communication in selected CU.

Item	Loop 0 results		Loop 1 results		Loop 2 results		Loop 3 results	
Number of pollings	8697396		0		0		0	
No answer	8697390	99.2%	0	00.0%	0	00.0%	0	00.0%
Parity fault	0	00.0%	0	00.0%	0	00.0%	0	00.0%
Number of bits fault	6	00.0%	0	00.0%	0	00.0%	0	00.0%
Bit length fault	0	00.0%	0	00.0%	0	00.0%	0	00.0%

10.9. DETECTOR DIAGNOSTICS

Press the **Detector diagnostics** button to access the detector diagnostic page.
This page shows two kinds of lists regarding detector information.

10.9.1. DETECTOR LIST

This page asks the control unit for sensor values. When selecting **Detector list**, it will first give an input window. Specify from which technical number the sensor list shall start asking the control units.

10.9.2. SERVICE LIST

This page will list all detectors that have activated service signal. See 4.4.9.

11. REMOTE OPERATIONS

To access remote operation in EBLWeb, press the **Remote operation** button.
It will expand the submenu for different remote operations, which consists of four main types:

- Disablement
- Activation
- Test
- Maintenance

The remote operations are user dependent, which means that some menus or operations will be hidden from users with insufficient user level.
Most of the remote operations have feedback functions to check if the operation was executed successfully, partly successfully, or not executed. But there are also operations that don't give any feedback, i.e. "one-shot operations".

Operation succeeded	
Operation partly succeeded	
Operation failed	

11.1. DISABLEMENT OPERATIONS

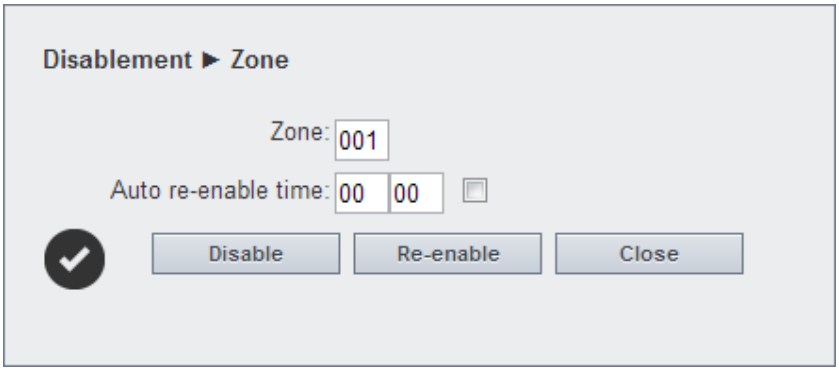
Press the **Disablement operations** button to access a list of different disablement operations.

Type	
Zone	Select
Zone-Address	Select
Output	Select
Output type	Select
Alarm devices	Select
Routing equipment	Select
Alert annunciation	Select
COM-loop / Zone line input	Select

A press on the **Select** button on each item will give the user a sub menu with choices of specific type for the corresponding disablement or a pop-up window with operations to **Disable** or **Re-enable** the disablement. The Back-button ↩ will go back one level in the menu list, to the previous menu.

11.1.1.ZONE

A specified Zone can be disabled / re-enabled and an automatic re-enable time can be set.



11.1.2.ZONE-ADDRESS

A specified alarm point (Zone-Address) can be disabled / re-enabled and an automatic re-enable time can be set.

11.1.3. OUTPUT

A sub menu for several types of outputs:

Type	
Loop unit output	Select
Voltage output (S)	Select
Relay output (R)	Select
Expansion board output	Select
Interlocking output	Select

LOOP OUTPUT UNIT

A specified loop unit (**tech.no.**), **output** (0-2) can be disabled / re-enabled.
NOTE! In system EBL128 the tech.no. is “000” plus the COM loop address, for example 000123.

VOLTAGE OUTPUT (S)

A specified voltage **output** (0-3) in a specified **c.i.e.** (00-29) can be disabled / re-enabled.

RELAY OUTPUT (R)

A specified relay **output** (0-1) in a specified **c.i.e.** (00-29) can be disabled / re-enabled.

EXPANSION BOARD OUTPUT

A specified **output** (0-7) on a specified 4581/4583 expansion **board** (0-5), in a specified **c.i.e.** (00-29), can be disabled / re-enabled.
NOTE! 4583 has three outputs (0-2).

INTERLOCKING OUTPUT

An interlocking can be disabled / re-enabled via a specified interlocking combination **Area-Point**.

11.1.4. OUTPUT TYPE

A sub menu for several types of outputs. All outputs of the type respectively will be collectively disabled/re-enabled.

CONTROL OUTPUT

All outputs of type "control” can be collectively disabled / re-enabled (all at the same time) in **all** control units or in a specified **c.i.e.** (00-29).

VENTILATION OUTPUT

All outputs of type "ventilation” can be collectively disabled / re-enabled (all at the same time) in **all** control units or in a specified **c.i.e.** (00-29).

EXTINGUISHING OUTPUT

All outputs of type "extinguishing” can be collectively disabled / re-enabled (all at the same time) in **all** control units or in a specified **c.i.e.** (00-29).

INTERLOCKING OUTPUT

All outputs of type "interlocking" can be collectively disabled / re-enabled (all at the same time) in **all** control units or in a specified **c.i.e.** (00-29).

11.1.5. ALARM DEVICES

All outputs of type "alarm devices" can be collectively disabled / re-enabled (all at the same time) in **all** c.i.e.

11.1.6. ROUTING EQUIPMENT

A submenu with Fire routing equipment and Fault routing equipment.

FIRE ROUTING EQUIPMENT

The **FIRE** output for routing equipment (fire brigade tx) can be disabled / re-enabled.

FAULT ROUTING EQUIPMENT

The **FAULT** output for routing equipment (fault tx) can be disabled / re-enabled.

11.1.7. ALERT ANNUNCIATION

The Alert Annunciation function can be disabled / re-enabled.
NOTE! This operation has higher priority than any time channel controlling this function.

11.1.8. COM-LOOP / ZONE LINE INPUT

A sub menu with the three types that can be disabled.

COM-LOOP

A specified COM **Loop** (0-3) in a specified **c.i.e.** (00-29) can be disabled / re-enabled.

ZONE-LINE INPUT

A specified zone line input (0-7) on a specified 8 zones expansion **Board** (0-5), in a specified **c.i.e.** (00-29), can be disabled / re-enabled.

ZONE INTERFACE

The zone line input (0) on a specified COM loop unit (3361) / technical number (**Tech. No.**), can be disabled / re-enabled.
NOTE! In system EBL128 the tech.no. is "000" plus the COM loop address, for example 000123.

11.2. ACTIVATION OPERATIONS

Press the **Activation operations** button to access a list of different activation operations.

Type	
Zone-Address	Select
Output	Select

A press on the **Select** button on each item will give the user a sub menu with the different output types or a pop-up window with buttons to **activate** or **de-activate**.
The back-button ↩ will go back one level in the menu list, to the previous menu.

11.2.1. ZONE-ADDRESS

A specified alarm point (**Zone-Address**) can be activated, i.e. set in fire alarm mode.
Reset the fire alarm with the **de-activate** button or in the fire alarm list, like any other fire alarm, see 10.4.1. FIRE ALARM.

11.2.2. OUTPUT

A sub menu for several types of outputs.

LOOP UNIT OUTPUT

A specified loop unit (**Tech. No.**), **Output** (0-2) can be activated / de-activated.

NOTE! In system EBL128 the tech.no. is “000” plus the COM loop address, for example 000123.

VOLTAGE OUTPUT (S)

A specified voltage **Output** (0-3) in a specified c.i.e. (00-29) can be activated / de-activated.

RELAY OUTPUT (R)

A specified relay **Output** (0-1) in a specified c.i.e (00-29) can be activated / de-activated.

EXPANSION BOARD OUTPUT

A specified **output** (0-7) on a specified 4581/4583 expansion **board** (0-5), in a specified c.i.e. (00-29), can be activated / de-activated.
NOTE! 4583 has three outputs (0-2).

INTERLOCKING OUTPUT

An interlocking output can be activated / de-activated via a specified interlocking combination **Area-Point**.

11.3. TEST OPERATIONS

Press the **Test operations** button to access a list of different test operations.

A press on the **Select** button on each item will open a pop-up window with operations to **Activate** or **De-activate** the Zone test or Alarm devices test.

Type	
Zone test	Select
Alarm devices	Select

11.3.1. ZONE TEST

A specified **zone** (0-999) can be set in test mode, i.e. test mode activated / de-activated.
Zones in test mode can also be de-activated from the Zones in test mode list, see section 10.4.8. ZONES IN TEST MODE.

11.3.2. ALARM DEVICES

All outputs of type "alarm device" can be collectively activated / de-activated for test. All outputs can be activated / de-activated at the same time in **all** c.i.e. or in a specified c.i.e. (00-29).

11.4. MAINTENANCE OPERATIONS

Press the **Maintenance operations** button to access a list of different maintenance operations.

Type	
Set calendar and time	Select
Synchronize	Select
Silence alarm devices	Select
Evacuate	Select
Sensitive fault detection mode	Select
Calibrate outputs	Select
Close fire doors	Select
Fire drill mode	Select

A press on the **Select** button on each item will open a pop-up window with corresponding maintenance operation.

11.4.1. SET CALENDAR TIME

The date and time for the web-server and the EBL system can be set in the pop-up dialog box. Press **Apply** to set the date and time currently shown in the dialog box or press **Cancel** for no change.

11.4.2. SYNCHRONIZE

This operation starts a synchronization of the EBL-system, which includes EBL CU, EBLWin, and EBLWeb. The synchronization status of each c.i.e. is shown in the c.i.e. list, see section 10.8. CONTROL UNIT.

11.4.3. SILENCE ALARM DEVICES

This operation works like the **silence alarm devices** button on the c.i.e front.
NOTE! Silence alarm devices cannot be activated if there is no fire alarm in the system.

11.4.4. EVACUATE

This operation activates / de-activates the evacuate function.

11.4.5. CALIBRATE OUTPUTS

This operation activates / de-activates the EBL-system for sensitive fault detection mode.

11.4.6. CLOSE FIRE DOOR

This operation will collectively close all fire doors, that is programmable outputs with a control expression containing one or more trigger conditions *Fire Door Closing (zone – address),* in **all** c.i.e. or in a specified **c.i.e.** (00-29).

11.4.7. FIRE DRILL MODE

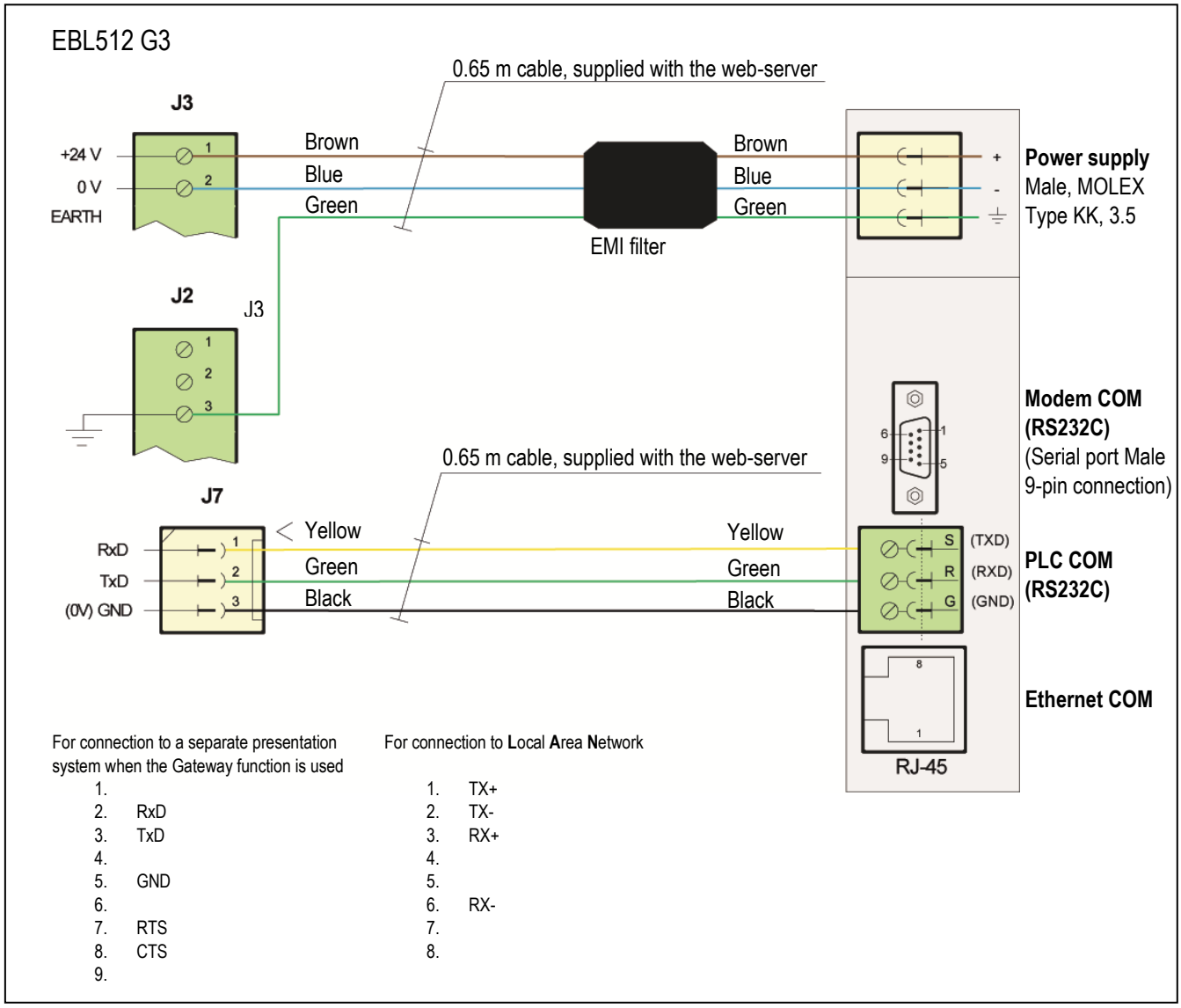
Fire drill mode activated will disable all outputs except outputs of type Control neutral and type Alarm devices.
An alarm point activating fire alarm will now activate all alarm devices, in order to evacuate the building (a fire drill).

12. MOUNTING

Web-server II shall be vertically mounted on a symmetric 35 mm DIN rail.
For system EBL 512 G3 and EBL128 the web-server is mounted on the dedicated DIN rail inside the c.i.e.
For system EBL512 the web-server II is mounted outside the c.i.e (within 3 meters from the c.i.e).
Cable and accessories kit for all systems is supplied with the web-server II.

13. INSTALLATION AND WIRING

NOTE! Screen wire termination is not provided.



For connection to a separate presentation system when the Gateway function is used

1.	
2.	RxD
3.	TxD
4.	
5.	GND
6.	
7.	RTS
8.	CTS
9.	

For connection to **L**ocal **A**rea **N**etwork

1.	TX+
2.	TX-
3.	RX+
4.	
5.	
6.	RX-
7.	
8.	

13.1. EBL512 G3

24 VDC cable

a) Plug the cable in the web-server power supply header.
b) Remove the other cable plug.
c) Connect the brown wire to the screw terminal J3:1 and the blue wire to the screw terminal J3:2.
d) Connect the green wire to the screw terminal J2:3 (earth).

RS 232 cable

e) Connect the black wire to the web-server screw terminal PLC COM:G (GND), the green wire to R (TxD) and the yellow wire to S (RxD).
f) Plug the cable in the main board header J7.

13.2. EBL128

24 V DC cable

a) Plug the cable in the web-server power supply header and in the main board header J4.

RS 232 cable

b) Connect the black wire to the web-server screw terminal PLC COM:G (GND) and the yellow wire to S (RxD).
c) Plug the cable in the main board header J5.

13.3. EBL512

24 V DC cable

a) Connect the 24V DC cable between the web-server and a power supply. Use the crimp terminal for optimal connection of the earth wire.

RS 232 cable

b) Mount the two screwlocks on the RS-232 connector in the EBL512 c.i.e.
c) Insert the end of the cable in the gap between the cabinet and the inner door. Fix the cable with the cable ties and the cable tie mounting base.
d) Connect the black wire to the web-server screw terminal PLC COM:G (GND), the green wire to R (TxD) and the yellow wire to S (RxD).

13.4. CHECKLIST

- Are the connectors firmly connected
- Are the connectors properly connected with respect to their voltage and polarity
- Are the cables securely fixed

14. COMMISSIONING

This chapter describes the correct sequence to install and set the web-server.
NOTE! Make sure to read the complete technical description before commissioning the system.

PREPARATIONS AND MOUNTING

a) Mount the web-server on the DIN rail inside the c.i.e. for system EBL512 G3 and EBL128. For system EBL512 mount the web-server outside the c.i.e. on a symmetric 35 DIN rail. The length of the attached cables is 3 meters.

CONNECTIONS

b) Connect the cables according to 13. INSTALLATION AND WIRING.

SETTING OF IP ADDRESS AND CONFIGURATION

c) Set the IP address with Chiptool, see chapter 8 ADVANCED CONFIGURATION.
d) Download the EBL software, see 7.1.1. DOWNLOAD EBLWEB SOFTWARE.
e) Download the EBLWeb configuration, see 7.2.1. DOWNLOAD EBLWEB CONFIGURATION.
f) Download the SSD to the web-server.

15. TECHNICAL DATA

NOTE! All current consumptions are valid by nominal voltage and by 25 °C.

Voltage:	
Allowed	10.8-30.0V DC
Normal	24V DC
Device quiescent current	≤ 0.75 mA
Operating current	65 mA
Short circuit isolator	No
Internal battery	No
Material	FR ABS and polycarbonate
Ambient temperature:	
Operating	0 to +55 °C
Storage	-20 to +70 °C
Ambient humidity	Maximum 85, % RH (Non condensing)
Ingress Protection	IP 20
Size:	
H x W x D	90 x 25 x 69 mm
Weight	74 g
Colour	Grey

16. APPROVALS

Applicable directive / Approvals	Applicable standards	Notified body
EMC	EN61000-6-3 (Emission) EN50130-4 (Immunity)	Declaration made by manufacturer (Panasonic Electric Works Europe AG)
RoHS	EN50581	

CE