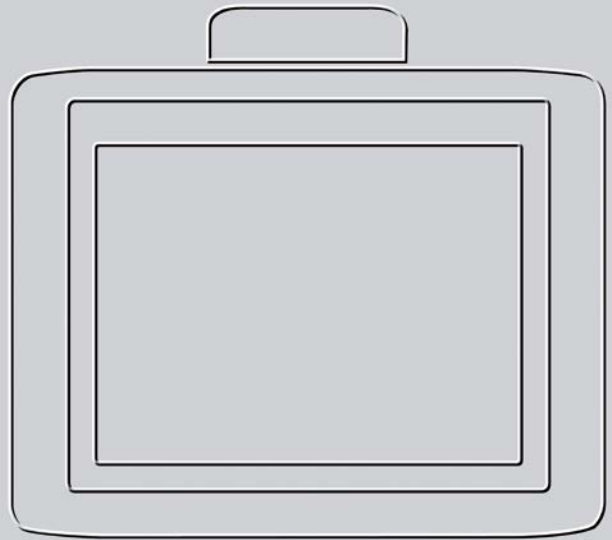**Manual**

DLoG Config

Manual V5.20 (EN)

ADVANTECH

Enabling an Intelligent Planet

IMPORTANT:

For safe and proper use, follow these instructions.
Keep them for future reference.

Manual completed on May 7, 2019.
Version 5.20

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Content

1. About this manual

1.1. Required qualifications

DLoG Config contains important settings for your ADLoG Industrial Computer. Incorrect settings can disable the functions of your Industrial Computer.

For example in the **Automatic Switch-off** menu: Settings "**Switch-On with ignition"** and "**Switch-on with ignition and power key"** are only allowed for Industrial Computers with <u>DC power supply</u>. Both settings block Industrial Computers with <u>AC power supply</u> and they cannot be restarted.

Only skilled qualified persons are permitted to configure Industrial Computers with DLoG Config.

If improper changes of the DLoG Config settings are performed by the customer, this releases the manufacturer from all liability for warranty claims.

1.2. Software version described

This manual describes the DLoG Config software program version 5.2.0.

1.3. Current manuals

The latest versions of our manuals are available at our websites:

www.advantech.com

www.advantech-service-iot.eu

1.4. Area of applicability

The DLoG Config settings described in this manual apply to the following Industrial Computers:

– DLT-V72 Series (all device models)
– DLT-V83 Series (all device models)

1.5. Design method in this manual

The following icons and keywords are used in this manual to indicate dangers, notices etc.

⚠ DANGER / WARNING / CAUTION

DANGER means that death or severe bodily injury will occur if this information is not observed.

WARNING means that death or severe bodily injury can occur if this information is not observed.

CAUTION means that slight bodily injury can occur if this information is not observed.

NOTICE: Property damage

Information about possible Property damage

TIP / HINT

Tips, hints for using the product

Note about additional information in manuals

2. Technical customer support

Contact your distributor, sales representative, or an Advantech Service Center for technical support.

Please have the following information ready:

– Product name

– Serial number

– Description of your peripheral attachments

– Description of your software (operating system, application software, etc.)

– The exact wording of any error messages

– A complete description of the problem

Find the contact data of our Global Advantech Service Centers on website:

http://erma.advantech.com

3. Installation

3.1. Pre-installed, subsequent installation

In most cases DLoG Config is pre-installed on each Industrial Computer by the factory.
An installation program is available for subsequent installation. Find it in the Advantech-DLoG
Download Center on www.advantech-service-iot.eu.

ATTENTION

The specified default installation path may not be changed and is e.g. **c:/Program Files (X86)**
– depending on the operating system. If it is modified and DLoG Config is installed in a
different directory, errors in the program can occur.

3.1.1. Software keyboard

DLoG software keyboard is automatically installed as part of the DLoG Config installation.
If no license is available for this software, the keyboard will only function for three minutes. It
then stops working.

For further information about the software keyboard, please refer to the user's
manual of the same name in the download center at our websites:
www.advantech.com
www.advantech-service-iot.eu

3.1.2. Files

The following files are located in the DLoG Config installation directory:

DLOGCFG.EXE	Main program for configuration
CONFIG_LOCAL.CFG	Configuration file with DLoG Config settings – all local settings that are not saved directly in the hardware are saved here. More information: Read section *14.5 Write WLAN log file*.
DLOGKEYBOARD.EXE	Software keyboard main program
KEYBOARD.CFG	The layout and functionality of the software keyboard are set here.

3.2. Starting DLoG Config

Start DLoG Config via the Windows **Programs** menu under **Start**.

If a password was entered in the DLoG Config **Settings** menu, this will be requested when starting the program. The password is case-sensitive; the program terminates after three incorrect entries.

The default password ex works is **gold**. Please change this in the **Settings** menu to suit your requirements.

3.2.1. Win 7, WES 7, Win 8 / WE8S / Win 10

There are two different ways to access DLoG Config from the **Start** menu:

Read only	start program, read-only access
Run as Administrator	start program, full write access

3.2.2. FBWF advice

If the hard drive on which the config files are saved is enabled for **FBWF**, the following message appears at the DLoG Config start-up:
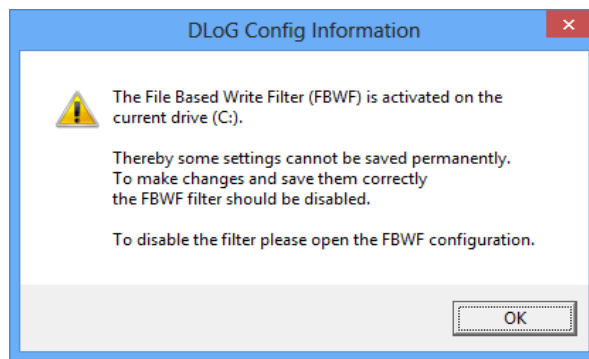
⇨ De-activate the **FBWF Filter**, if necessary.

Figure 3.1: DLoG Config Information FBWF

4. Overview of functions

NOTE

The DLoG Config software automatically recognizes the Industrial Computer type and the installed operating system. The configuration dialog differentiates the various systems and is displayed according to the device.

4.1. DLoG Config main menu

Main menu overview, e.g. Win 10 IoT Enterprise
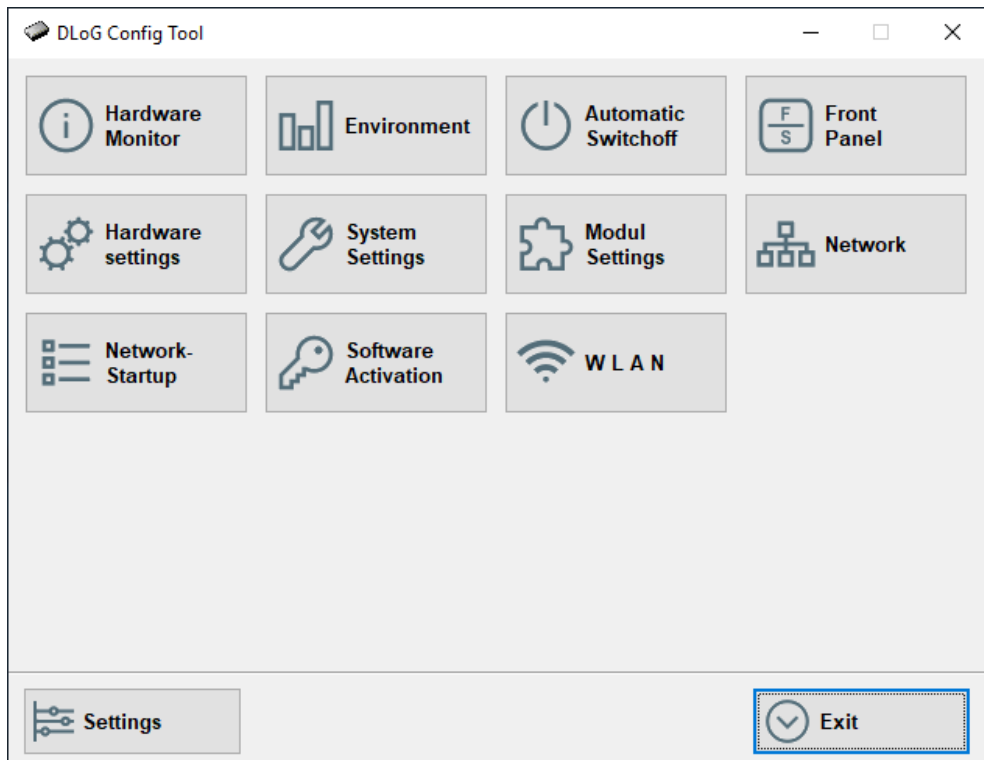
Figure 4.1: DLoG Config main menu Win 10 IoT Enterprise

4.2. Main menu – short description

Menu	Function
Hardware Monitor	Information display: e.g. serial number of the device and current operating temperature
Environment	Information display: Statistics and data on the environment controller, such as 'hard' switch-offs
Automatic Switch-off	Configures the automatic switch-off behavior (delay time, ignition, etc.)

Front Panel	Defines the assignment of the optional front panel keys (depends on device model)
Hardware Settings	Settings depend on optional Industrial Computer equipment: – Front keys – Battery pack – PCT touchscreen (usage with gloves) – Screen defroster
Module Settings	Settings depend on optional Industrial Computer equipment: – Activate / De-activate WLAN, Bluetooth and WWAN
System Settings	Configures Windows logon, taskbar display etc.
Network	Manages IP address and DNS server
Network Startup	Start programs automatically when booting the device
WLAN	Configuration of the WLAN Status Window
Software Activation	Activates licenses for automatic switch-off and software keyboard and releases them for use on this computer
Enhanced Write Filter	Exclusively for MS Windows Embedded OS: administers write protection function
File Based Write Filter	Exclusively for MS Windows Embedded OS: administers write protection function
Settings	Sets password, language and further default settings for the DLoG Config program
Exit	Exit DLoG Config program

5. Hardware monitor

In the **Hardware Monitor** menu, Industrial Computer system information is displayed.

Examples:

– Serial number

– Industrial Computer model

– Installed processor

– Firmware version

– BIOS version

– Inside temperature of the Industrial Computer

5.1. DLT-V72 exclusive: Battery information

Displayed only on the DLT-V72 with integrated uninterrupted power supply (UPS, optional) for the battery pack being utilized:
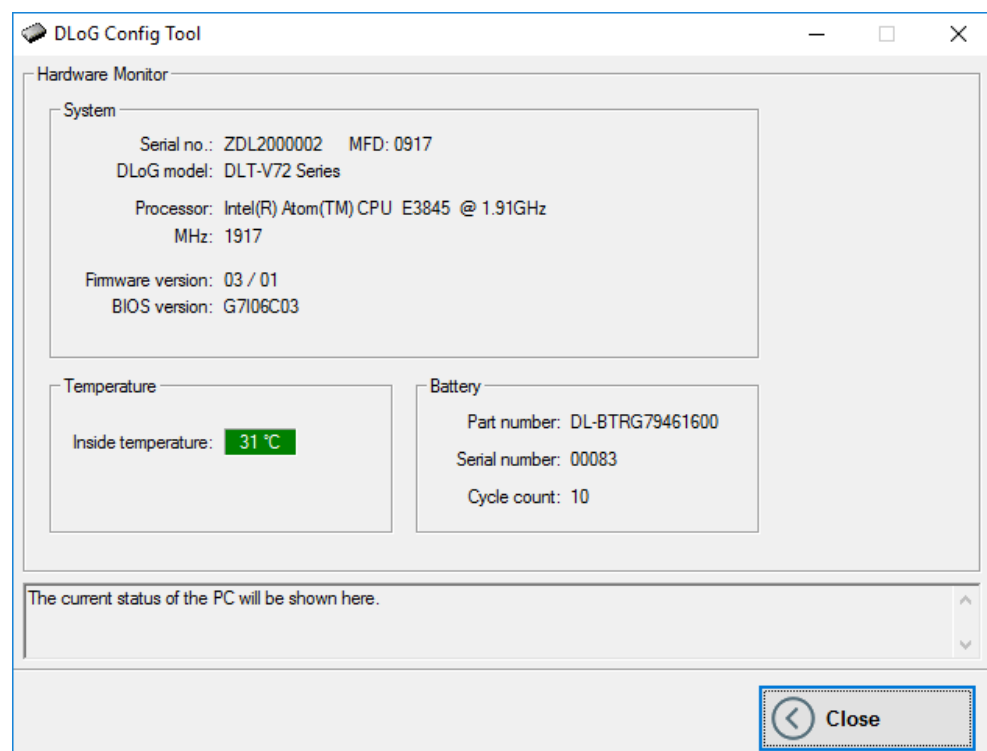
– Part number

– Serial number

– Charging cycles

Figure 5.1: DLT-V72 Hardware monitor menu

6. Environment

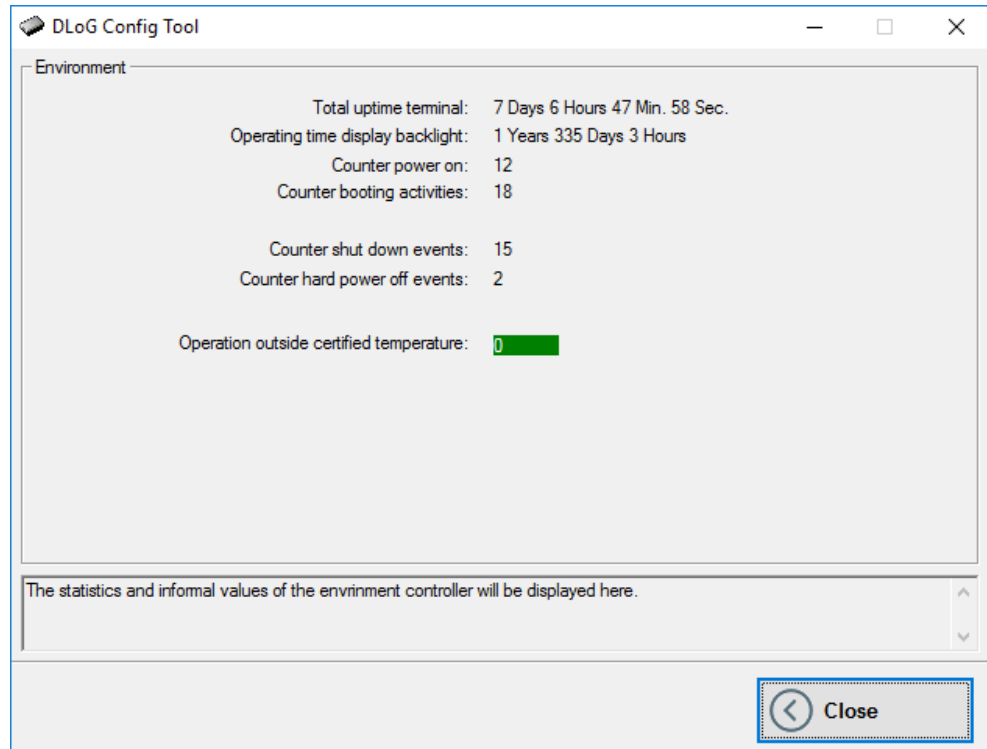In the **Environment** menu, statistics and data on the environment controller is displayed.

Figure 6.1: Environment menu

Examples:

Total running time of device	Total time the device was on
Backlight running time	Total time that backlighting was on
Power key switch-on count	Shows how often the computer was switched on with the power key
Ignition switch-on count	Shows how often the computer was switched on via the vehicle ignition
Power key switch-off count	Shows how often the computer was switched off with the power key
Automatic switch-off count	Shows how often the computer was switched off via the ignition
APM switch-off count	Shows how often the computer was switched off via "Windows Advanced Power Management" (automatically following Windows shutdown)
Hard switch-off count	Shows how often the computer was turned off using 'hard' switch-off

Last switch-off reason	The cause of the last switch-off
Excess temp. switch-off count	Shows how often the computer switched off due to excess temperature
Insufficient temp. switch-offs	Shows how often the computer switched off due to insufficient temperature
Errors temperature sensor	Shows how often temperature sensor errors occurred. If this error message occurs frequently, please send your unit in to be serviced.

7. Automatic Switch-off

In the **automatic switch-off** menu, the behavior of the Industrial Computer is defined with regard to switching on and off. The automatic shutdown is preconfigured at the factory by default.

NOTICE: Property damage

Settings "**Switch-On with ignition"** and "**Switch-on with ignition and power key"** are only allowed for Industrial Computers with DC power supply. Both settings block Industrial Computers with AC power supply and they cannot be restarted.
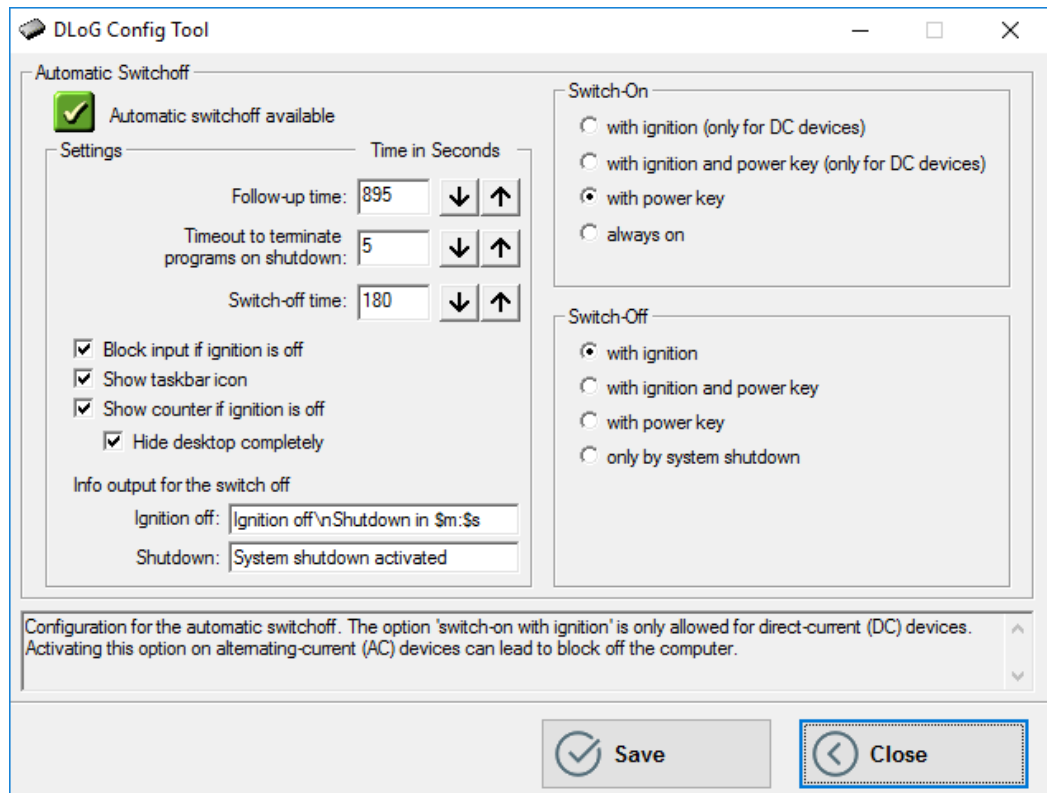

Figure 7.1: Automatic Switch-off menu

7.1. Settings

Follow-up time and Timeout to terminate programs on shutdown	If you do not want the Industrial Computer to shut down immediately after switching it off using the ignition or power key, but rather it should remain on for a time, then enter an Follow-up time (in seconds) here. **Shutdown times** The length of time until shutdown consists of two counters: 1. **Follow-up time** The Follow-up time begins with the switching off of the ignition. The shutdown counter is displayed on the monitor (according to the settings). In this countdown the Follow-up time is counted downwards. If the Follow-up time has elapsed, a message for the shutdown will be displayed in the Shutdown dialog. During this time, the computer can be returned to normal operating status with the ignition. 2. **2. Timeout to terminate programs on shutdown** Next, all applications are informed that Windows will shutdown. After this, the timeout begins counting down – but a counter is no longer displayed in the Shutdown dialog. When the timeout elapses, there will be a 'hard' switch-off of all applications that were still running. Then the system shutdown is started.
Switch-off time	In order to allow enough time for the system shutdown after the program timeout, set the switch-off time to at least 20 s plus the program timeout. Settings lower than this value will cause a warning to appear when data is being saved.
Block input if ignition is off	If the ignition of the connected vehicle is off, all input to the computer may be blocked.
Show taskbar icon	Create a symbol for DLoG Config in the taskbar. The symbol indicates the power status as follows: Green: Power status is OK; ignition is on. Flashing yellow and red: The ignition has been switched off and the Follow-up time is counting down. Red: The computer is in shutdown or switch-off mode. Unable to read power status. Double-click or right-click with the mouse to open a popup menu where DLoG Config can be started.
Show counter if ignition is off	A small dialog is displayed in the foreground where a counter counts down the Follow-up time until shutdown. Depending on the option **Block input**, a **Shutdown** button is also shown that allows the user to immediately start the shutdown.
Hide desktop completely	The displayed counter dialog is opened in Full screen mode, covering the entire desktop. Large, easy-to-read text is displayed automatically.
Info output for	Enter any text here for the Follow-up time counter and the

the switch-off	shutdown process. A line break in the text can be entered with '\n'. The Follow-up time counter is defined in '$m' for minutes and '$s' for seconds. These text codes are case-sensitive.
Ignition off	Text for the display time
Shutdown	Text for the display time

7.1.1. Switch on

NOTICE: Property damage

Settings "**Switch-On with ignition"** and "**Switch-on with ignition and power key"** are only allowed for Industrial Computers with <u>DC power supply</u>. Both settings block Industrial Computers with <u>AC power supply</u> and they cannot be restarted.

with ignition (**only for DC devices**)	The Industrial Computer switches on automatically when the ignition is started. It cannot be switched on with the power key.
with ignition and power key (**only for DC devices**)	The Industrial Computer can be switched on with the power key if the ignition is on. It cannot be switched on with the power key alone.
with power key	The Industrial Computer can be switched on with the power key.
always on	The Industrial Computer switches on as soon as it is supplied with power. It is not necessary to press the power key or start the ignition.

7.1.2. Switch off

with ignition	Automatic switch-off is activated when the ignition is switched off. The power key shortens the defined Follow-up time and initiates computer shutdown.
with ignition and power key	Automatic switch-off is activated when the ignition is switched off. The power key must be pressed to shut down the Industrial Computer.
with power key	The Industrial Computer is shut down or switched off with the power key.
only by system shutdown	The computer cannot be switched off using the ignition or the power key; it has to be shut down in the **Start** menu.
Shutdown to hibernation mode	If the Industrial Computer is switched off using the ignition or the power key, it goes into hibernation mode. When this happens, a copy of the main memory is written to a file, accelerating the startup of the computer. This option must be activated in the **power management center** of the computer (**Power Properties**).

8. Front Panel

In the **Front Panel** menu, the front keys located on the Industrial Computer front panel can be programmed.

Rules:

- Keys **Power on/off, +/- Brightness** and **Backlight on/off** cannot be programmed.
- All keys depicted in grey/white can have two assignments.
- Use <SHIFT> to switch between the assignments.
- Character strings cannot be assigned to single keys. Only one character per key is possible. The keys <Alt>, <Ctrl> and <Shift> may be used in combination, e.g. <Ctrl> <Alt> <F1>.

NOTE

DLoG Config automatically detects the Industrial Computer and the front keys present and displays the respective configuration dialog for the device.

8.1. Configuration DLT-V7210, DLT-V7212
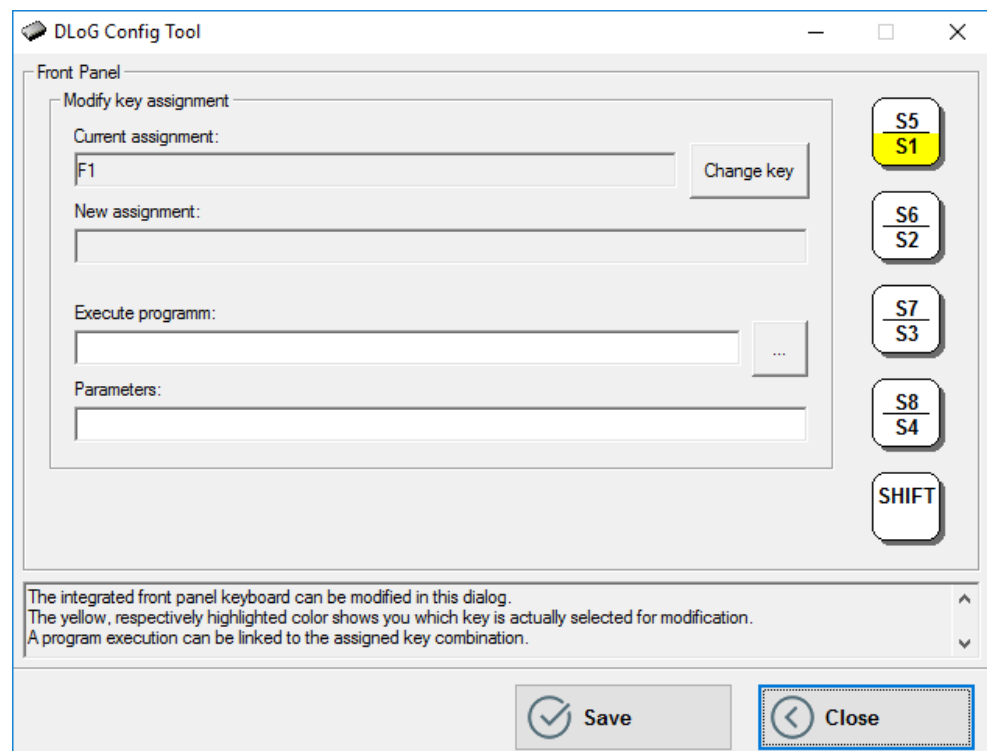

Figure 8.1: Front Panel menu on DLT-V72 Win 10 IoT Enterprise
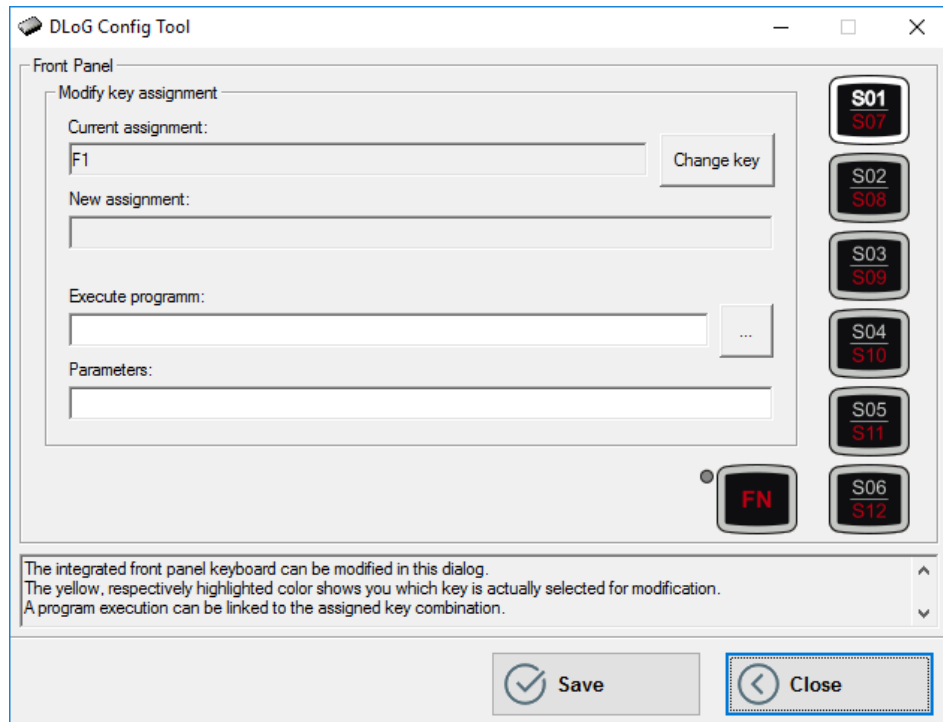
8.2. Configuration DLT-V7210 K, KD

Figure 8.2: Front Panel menu on DLT-V7210 K, KD
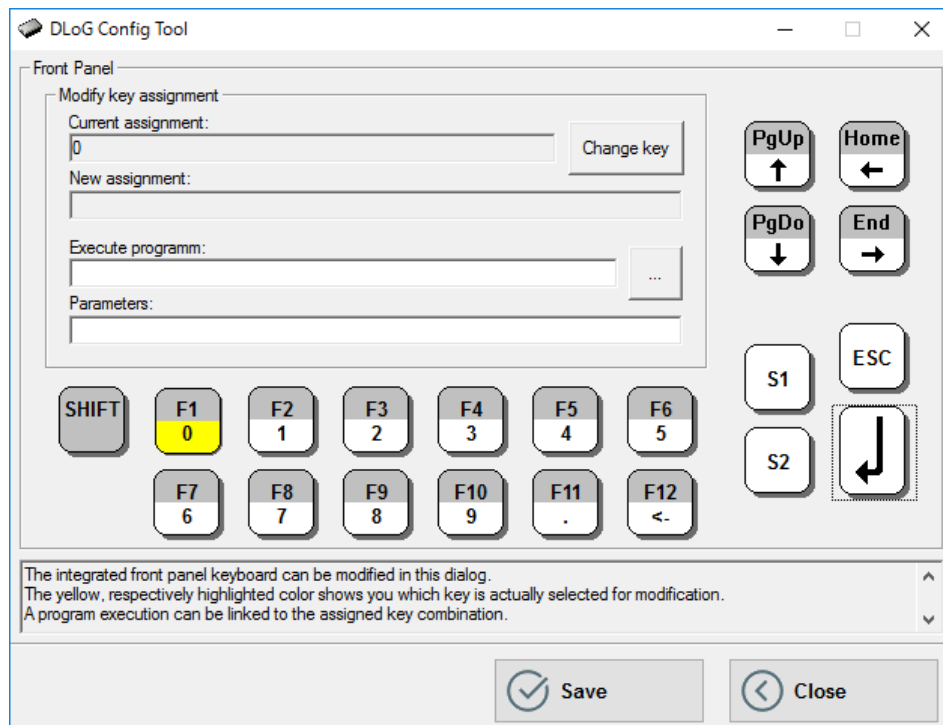
8.3. Configuration DLT-V83 Series

Figure 8.3: Front Panel menu on DLT-V83 (example)

8.4. Assigning front keys

⇨ Select the key to be changed, it appears in the **Current assignment** field.

⇨ Press the **Change key** button. The **Define key** input dialog appears.

⇨ Press the desired key assignment. The selected key assignment appears in the **New assignment** field.

⇨ Save these settings with the **Save** button.

If an assignment is given twice to the same key, a corresponding warning message appears.

8.5. Starting an external program

A front panel button is assigned with a program call by using the **Execute program** and **Parameter** settings.

⇨ Open the file selection and select a program file (.exe).

⇨ Now the **Parameter** field can be edited.
If necessary, input the desired call parameter.

⇨ Save the settings.

The front panel button is now assigned the program call; restarting the computer is not necessary.

9. Hardware Settings

NOTES

The settings vary depending on the Industrial Computer type and optional device features. Example: Only if a "battery pack" is installed, the DLoG Config dialog displays the corresponding battery pack parameter setting.

Some settings only become active after the Industrial Computer has been switched off by **shutting down** (**shutdown**) and then switched on again. A **restart** is not sufficient in this case.

9.1. DLT-V72 Series

The settings vary depending on the Industrial Computer type and optional device features.

Example DLT-V72:

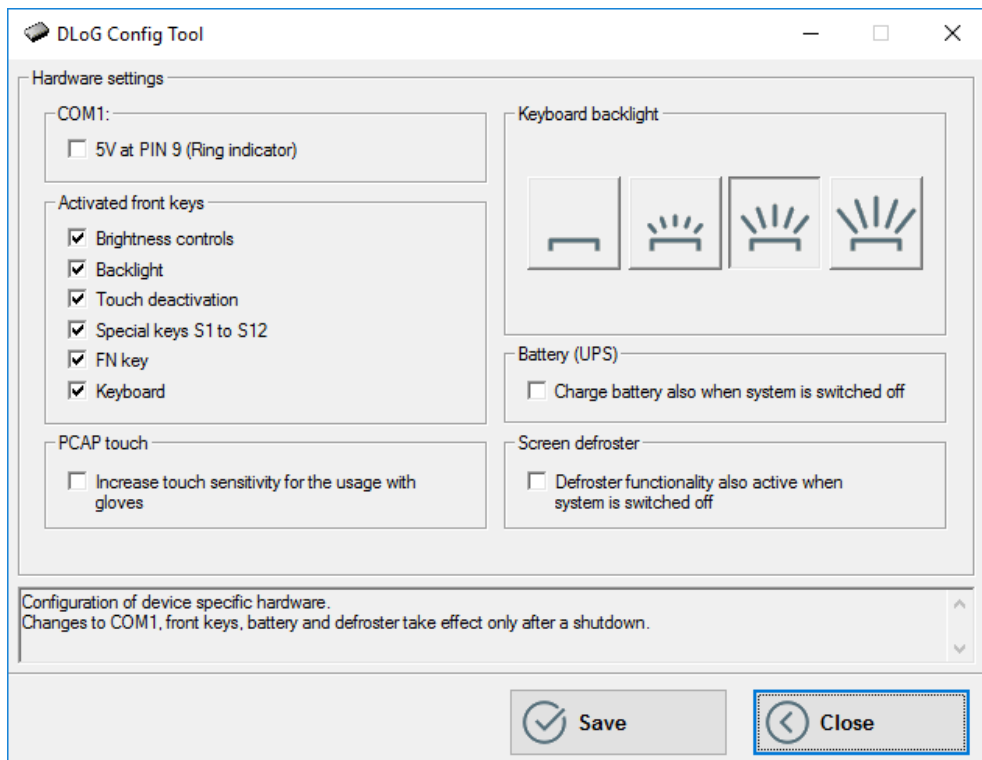Figure 9.1: DLT-V72 hardware settings menu

COM1: 5V at PIN 9	The COM1 interface of the DLT-V72 can supply externally connected devices with +5 VDC. You can select whether +5 VDC or RI is output on pin 9 of COM1.
Activated front keys	The front keys listed here can be activated or deactivated. Observe the effect on the required key combination, e.g. for activating the screen defroster.

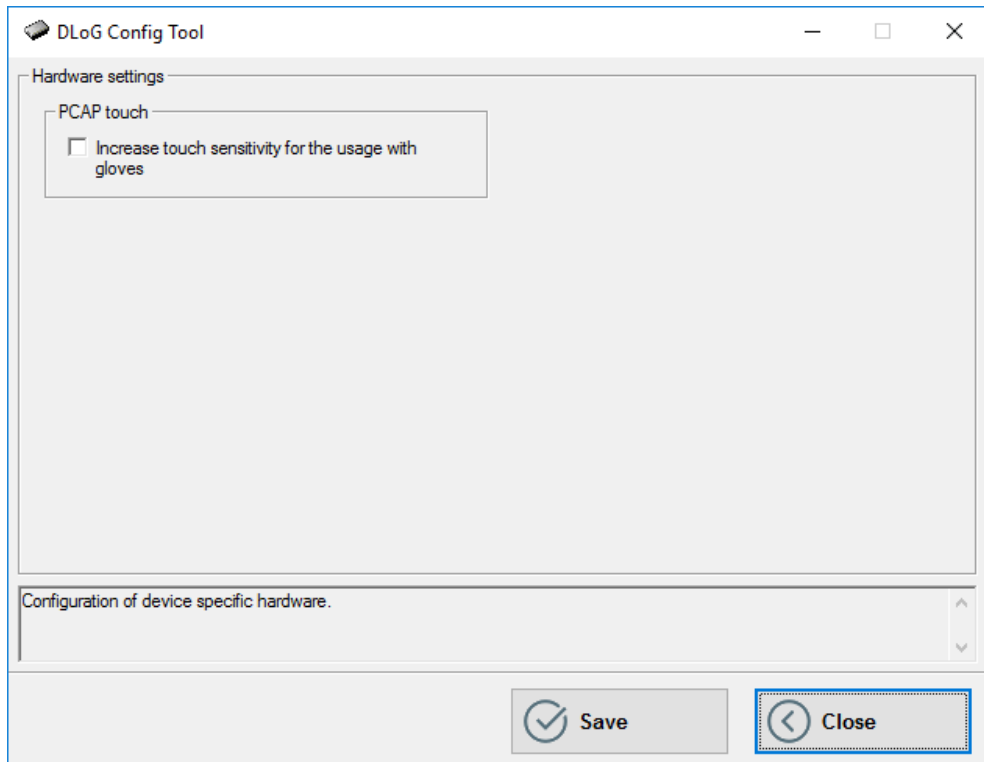| PCAP Touch: Increase touch sensitivity for the usage with gloves	You can increase the sensitivity of the PCT touchscreen to facilitate operation with gloves. Note: This menu item is only displayed on DLT-V72 devices with PCT touchscreen. The defined setting already becomes active after clicking on **Save**; no shutting down of the DLT-V72 is necessary. **ATTENTION:** When operating without gloves, this setting means that the touchscreen may possibly already react when your finger is very close to the touchscreen but not yet touching it.
Keyboard backlight	Keyboard backlight of the integrated keyboard is set. Four settings are available, from „Off" to „Bright".
Battery (UPS) Charge battery also when system is switched off	You can specify that the battery pack of the DLT-V72 will also then be charged when the DLT-V72 is switched off, but is nonetheless supplied with current. This is the case, for example, when the DLT-V72 is connected to a vehicle battery. **ATTENTION:** Energy consumption of the vehicle battery!
Screen defroster Defroster functionality also active when system is switched off	**Note**: This menu item is only displayed on DLT-V72 devices with a screen defroster. If this checkbox is selected, the screen defroster will work whenever the DLT-V72 is being supplied with power. This can be the case, for example, already <u>before</u> the switching on of the device. Requirement: The temperatures lie within the defined range. **ATTENTION:** Energy consumption of the battery pack and the vehicle battery!

9.2. DLT-V83 Series

Figure 9.2: DLT-V83 hardware settings menu - PCT touchscreen model

PCAP Touch: Increase touch sensitivity for the usage with gloves	You can increase the sensitivity of the PCT touchscreen to facilitate operation with gloves. **Note**: – This menu item is only displayed on DLT-V83 devices with PCT touchscreen. – When operating <u>without</u> gloves, this setting means that the touchscreen may possibly already react when your finger is very close to the touchscreen but not yet touching it. – The defined setting already becomes active after clicking on **Save**; no shutting down of the DLT-V83 is necessary.

10. Module Settings

10.1. DLT-V72 Series

NOTES

Menu is only available for DLT-V72 devices from production date Feb 2019.

The settings vary depending on the device type and optional device features.

Figure 10.1: Module Settings DLT-V72 Series

Wi-Fi	Enable and disable
Bluetooth	Enable and disable
WWAN	Enable and disable
Antenna	Switching the AUX channel: internal or external antenna Setting **internal**: Only use integrated WLAN antenna in the device (dual band diversity Prime and AUX channel). − Setting **external**: Use external WLAN antenna (AUX channel) in combination with internal antenna (prime channel).

10.2. DLT-V83 Series

NOTES

Menu is only available for DLT-V83 devices from production date Feb 2019.

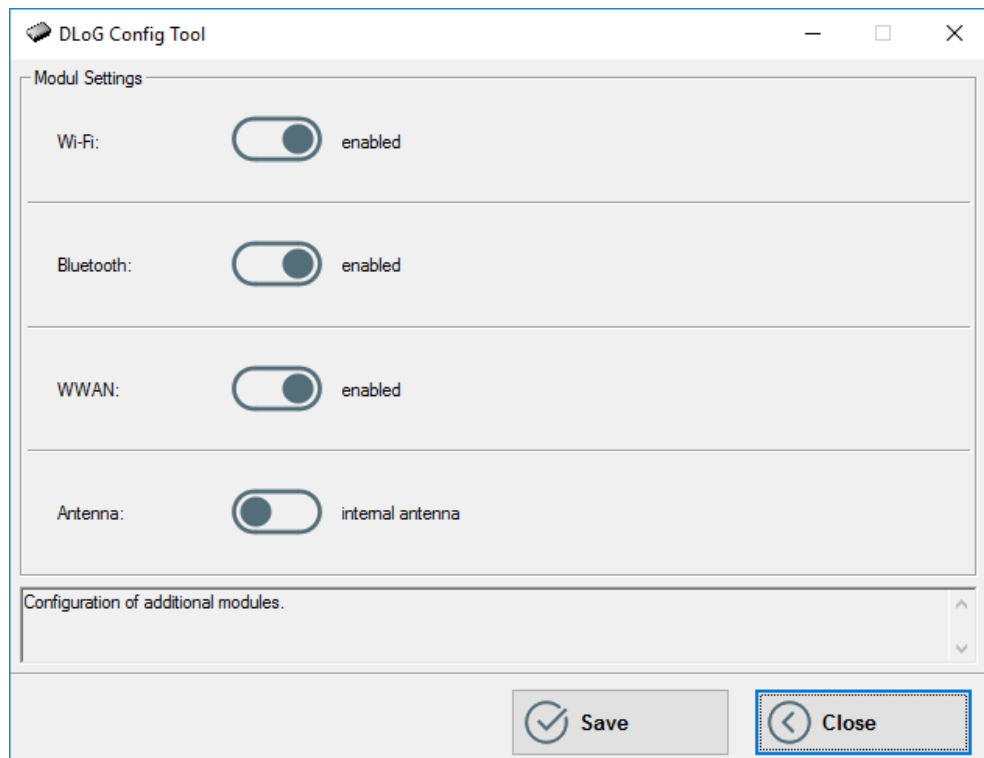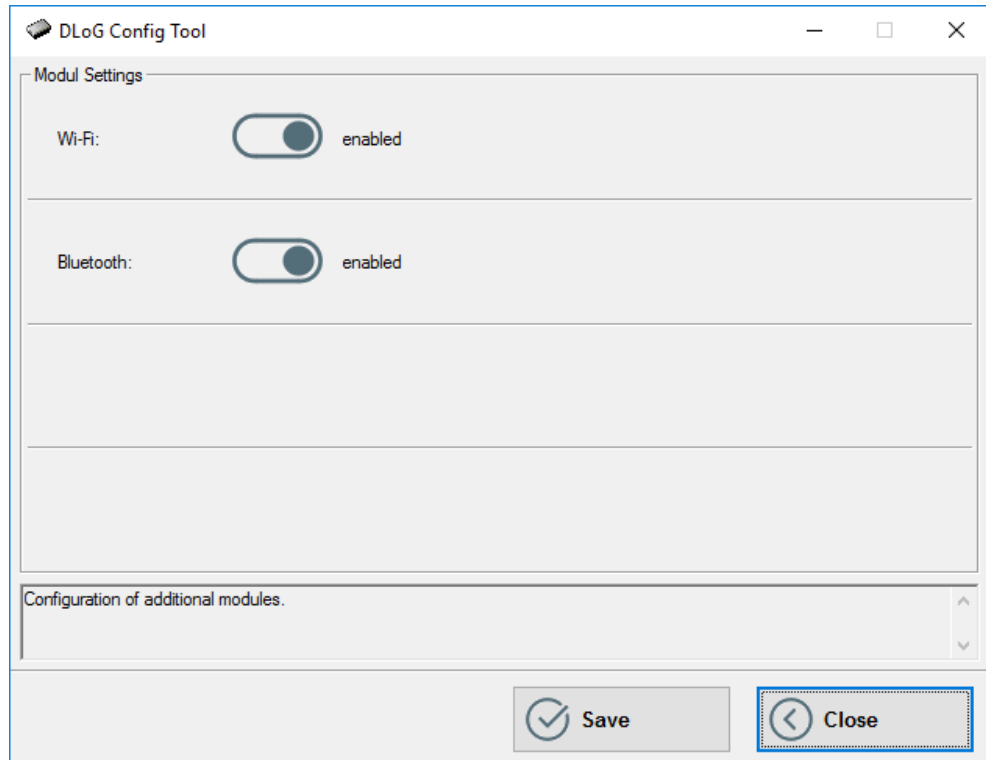The settings vary depending on the device type and optional device features.

Figure 10.2: Module Settings DLT-V83 Series

Wi-Fi	Enable and disable
Bluetooth	Enable and disable

11. Common System Settings

In the **Common System Settings** menu, parts of the Windows System can be configured. The content of this menu differs depending on the operating system.
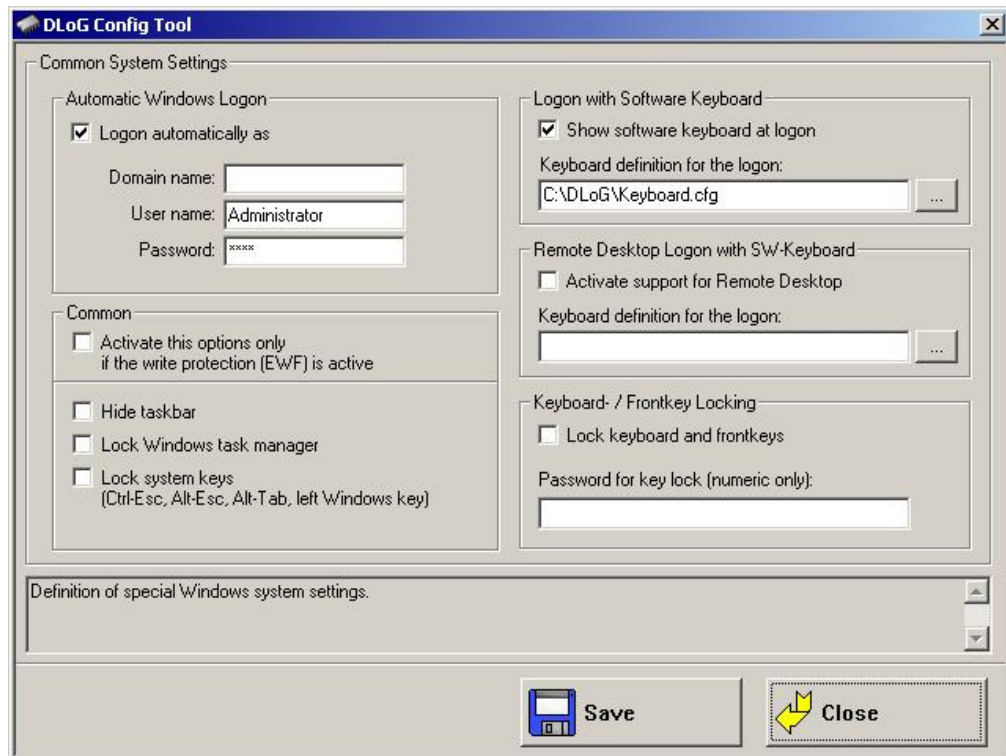
11.1. Win XP, XP Embedded

Figure 11.1: Common System Settings Win XP, XP Embedded

Automatic Windows Logon

Logon automatically as	Enable or disable the Automatic Windows Logon.
Domain name, User name, Password	Logon data for the Automatic Windows Logon must be entered.

Logon with software keyboard

Show software keyboard at logon	If this check box is selected, the software keyboard is already available to the user upon logging in.
Keyboard definition for the logon	A CFG file and hence a particular keyboard layout can be specified for the logon (it may differ from the default keyboard). Changes to this setting are activated only after the computer has been restarted.

Common

Activate this option only if the write protection (EWF) is active	**This setting is only useful for Microsoft Windows XP Embedded.** Here you can define whether the following options relating to the taskbar, task manager and system keys are to be valid only when EWF write protection is active. For example: When the system administrator is working on the computer and has deactivated EWF write protection, the taskbar, task manager and system keys are available. These cannot be accessed by users working with EWF write protection.
Hide taskbar	Taskbar is hidden.
Lock Windows task manager	Task manager cannot be accessed.
Lock system keys	The keys <Ctrl-Esc>, <Alt-Esc>, <Alt-Tab> and the left Windows key are locked.

Remote Desktop logon with SW-Keyboard

Activate support for Remote Desktop	After a remote access to the current computer, the software keyboard can be activated for logging back in.
Keyboard definition for logon	The CFG file for the software keyboard is specified, e.g. "C:\DLoG\Keyboard.cfg"

Keyboard / front key locking

| Lock keyboard and front keys	Using this setting , all keyboard inputs/key inputs on the DLoG industrial computer can be locked. - Front panel buttons - External keyboard - Software keyboard (via touch screen) Locking is only active after restarting the computer.
Password for key lock (numeric only)	Locking is only activated if a max. 20 character long keyword is defined. For this only <u>numbers</u> are used. During activated lock, the password dialog for releasing the keyboard appears when pressing (or creating) any key (except for power/brightness keys). The password can <u>only</u> be entered using the touch screen and the keys displayed in the dialog. Figure 11.2: Password request for locked keyboard lock Only the administrator can remove the lock during successful locking.

11.2. Win 7, WES7, Win 8, WE8S, Win 10
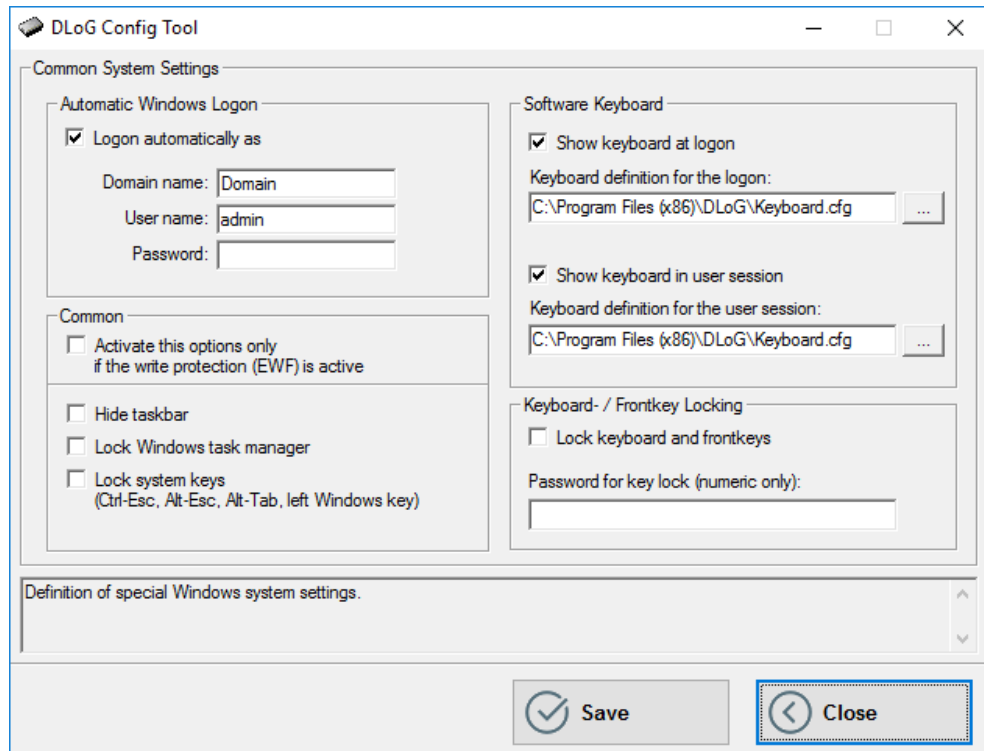
Figure 11.3: Common System Settings Win 7, WES7, Win 8, WE8S, Win 10

Automatic Windows Logon

Logon automatically as	Enable or disable the Automatic Windows Logon.
Domain name / User name / Password	Logon data for the Automatic Windows Logon must be entered.

Common

Activate this option only if the write protection (EWF) is active	**This setting is only useful for MS Windows XP Embedded and WES 7!** Here you can define whether the following options relating to the taskbar, task manager and system keys are to be valid only when EWF write protection is active. For example: When the system administrator is working on the computer and has deactivated EWF write protection, the taskbar, task manager and system keys are available. These cannot be accessed by users working with EWF write protection.
Hide taskbar	Taskbar is hidden.
Lock Windows task manager	Task manager cannot be accessed.
Lock system keys	The keys <Ctrl-Esc>, <Alt-Esc>, <Alt-Tab> and the left Windows key are locked.

Software keyboard

Show software keyboard at logon	If this check box is selected, the software keyboard is already available to the user upon logging in.
Keyboard definition for the logon	A CFG file and hence a particular keyboard layout can be specified for the logon (it may differ from the default keyboard). Changes to this setting are activated only after the computer has been restarted.
Display in user session	If this checkbox is activated, the software keyboard for the system in operation is displayed.
Keyboard definition for the user session	A CFG file and hence a particular keyboard layout can be specified for the user session (it may differ from the default keyboard). Changes to this setting are activated only after the computer has been restarted.

Keyboard / front key locking

Lock keyboard and front keys	The following things can be locked: - Front keys and special keys on the front of the device - External keyboard - Software keyboard (via touch screen) Locking is only active after restarting the computer.
Password for key lock (numeric only)	Locking is only activated if a max. 20 character long keyword is defined. For this only <u>numbers</u> are used. During activated lock, the password dialog for releasing the keyboard appears when pressing (or creating) any key (except for power/brightness keys). The password can <u>only</u> be entered using the touch screen and the keys displayed in the dialog. Figure 11.4: Password request for locked keyboard lock Only the administrator can remove the lock during successful locking.

12. Network Settings

12.1. Common

In the **Common** menu under **Network Settings**, you can make settings for the network adapter (LAN and WLAN).

Find information about settings for the network adapter currently selected in the **Current settings** window.

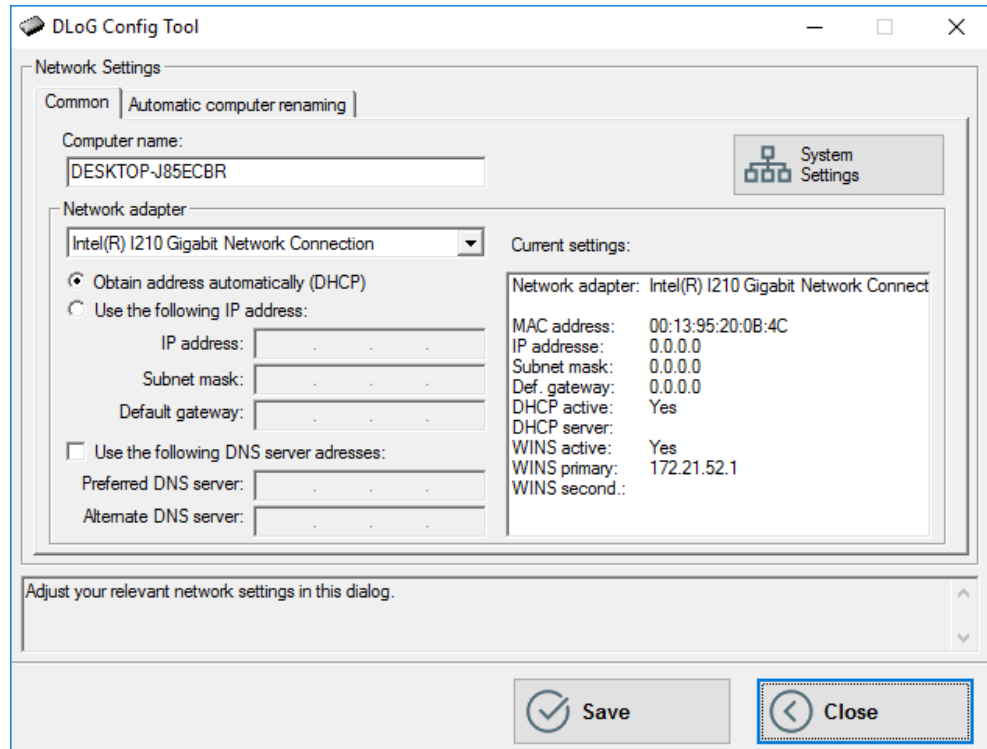The **System Settings** button opens the Windows dialog for networks.

Figure 12.1: Network Settings | Common menu

Computer name

The Industrial Computer host name can be changed.

Network adapter

Selection list	Select the Network adapter.
Obtain address automatically (DHCP)	With this setting, the network configuration is obtained from a DHCP server.
Use the following IP address	Here the IP address, subnet mask and default gateway can be entered manually.
Use the following DNS server addresses	Here the DNS servers to be used can be entered manually.

12.2. Automatic Computer Renaming

The settings in the **Automatic Computer Renaming** menu under **Network Settings** are used for the automatic assignment of computer names. Allocation of different computer names is supported by entering the MAC address.
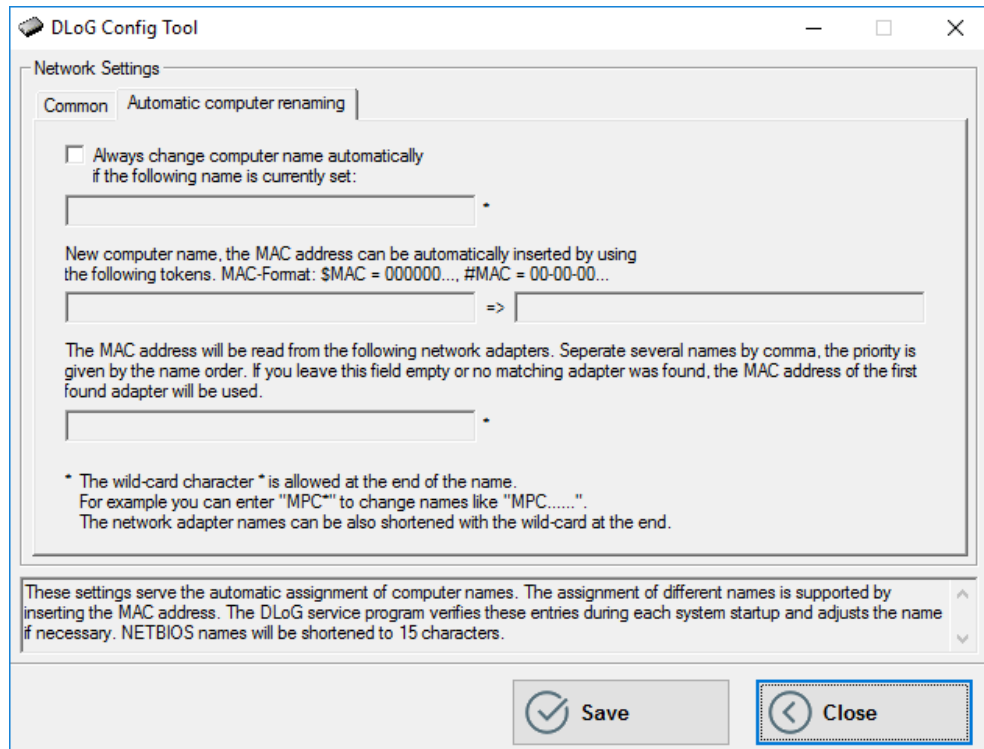

Figure 12.2: Network Settings | Automatic Computer Renaming

13. Network Startup

You can define programs in this menu which should be started after a network connection is successfully established with a server (after every boot of the operating system).
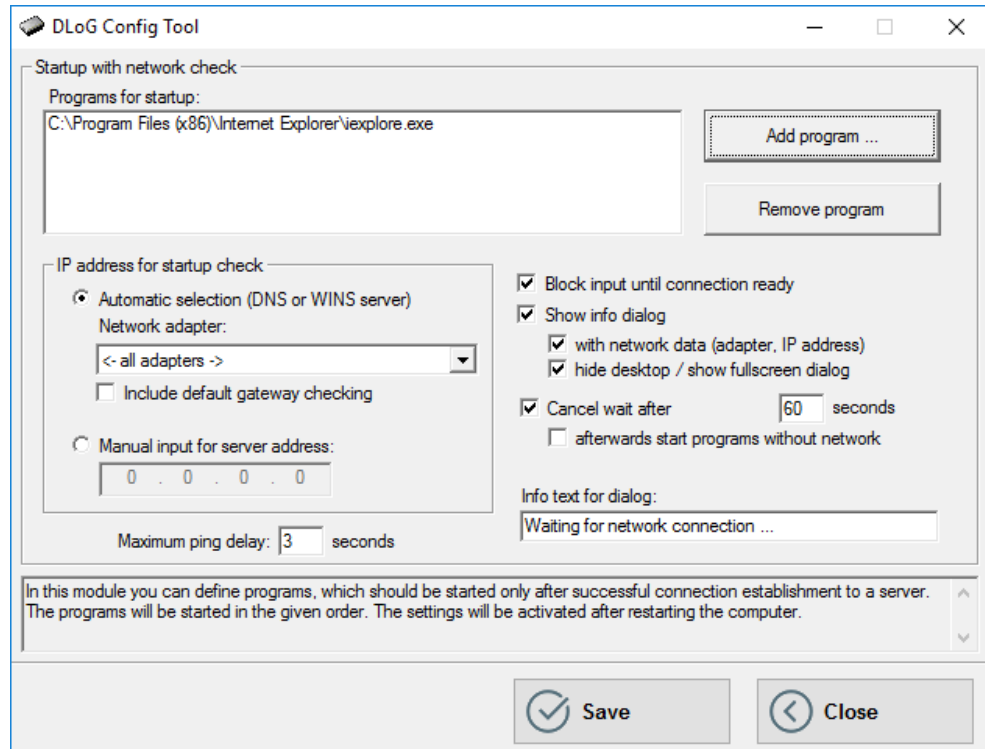

Figure 13.1: Network Startup

Auto start programs

Multiple programs can be specified. The programs are started in the order given. The settings are activated only after the computer is restarted.

Add program	The Windows file selection dialog is shown and you can select a program.
Remove program	Remove a selected program.

IP address for startup check

Automatic selection (DNS or WINS server) of network adapter	The desired network adapter can be specified here. Possible selections are: - All adapters - COM2 VPN adapter - Intel PRO / 100VE Network Connection
Include default gateway in check	If this checkbox is checked, then the default gateway is also included when searching for an IP address.
Manual input of the server address	If a server address is specified here, the programs are only started when the DLoG computer has established a connection to that IP address.
Maximum ping time	Time to wait for a response after running a ping.
Block input until connection established	Until the network connection is established, no input can be performed on the computer.
Show waiting dialog	A waiting dialog can be shown, optionally with network information and in full-screen mode.
Stop waiting after ... seconds	If no network connection has been established, the wait can be stopped after the time given here.
Then start programs without network	The programs can also be started without a network connection.
Info text in waiting dialog	The text entered here will be displayed on the waiting dialog.

14. WLAN

In this menu, you can configure whether a **WLAN status window** will be displayed on the Industrial Computer, with information about signal strength and quality of the WLAN connection.

NOTE

This function is only available for Industrial Computers equipped with the "SUMMIT / LAIRD SDC-PE15N" WLAN card.
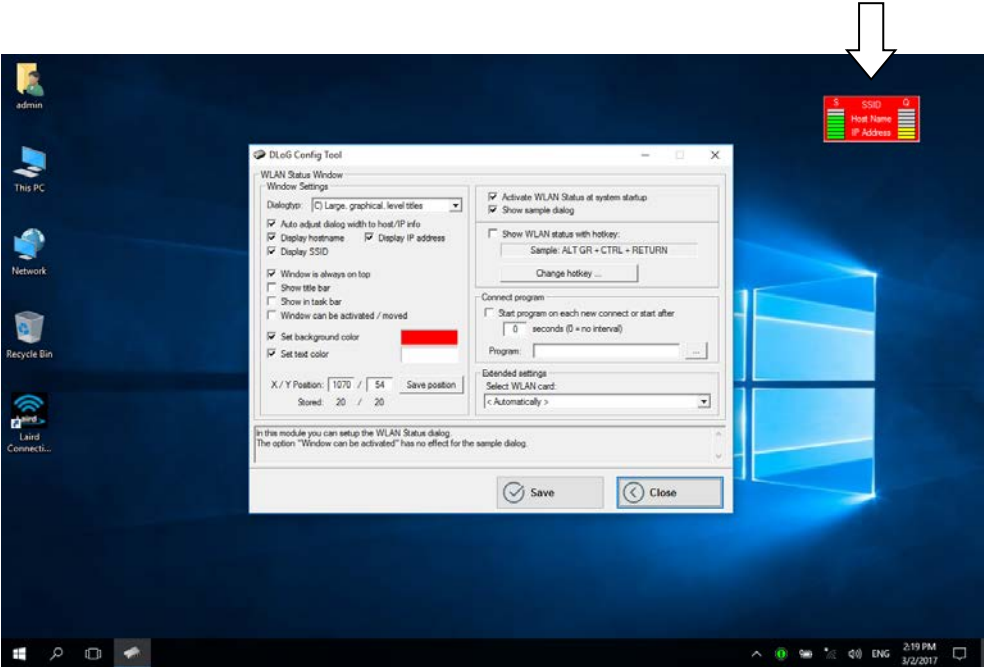
14.1. WLAN status window

Example of a WLAN status window

Figure 14.1: WLAN Status Window

Color legend for signal strength	Color legend for quality
Red = signal strength poor Yellow = signal strength fair Green = signal strength good	Red = poor quality Yellow = fair quality Green = good quality

14.2. Signal strength and quality

S = Signal strength	This value provides information about the strength of the signal received by the Industrial Computer. The signal strength can be displayed as a dBm value, in percentages, or as a diagram, depending on the configuration selected in the WLAN dialog.
Q = Quality	This value provides information about the quality of the signal received by the Industrial Computer. The quality can be displayed as a dB value, as a percentage, or as a diagram, depending on the configuration selected in the WLAN dialog.
Host name	The host name is displayed according to the setting in the WLAN menu.
IP address	The IP address of the Industrial Computer is displayed according to the setting in the WLAN menu.

14.3. Basic legend for signal strength

Signal strength alone says nothing about the quality of the signal. The quality depends on the ratio of signal to noise (SNR = Signal/Noise Ratio = RSSI, Radio Signal Strength Indicator).
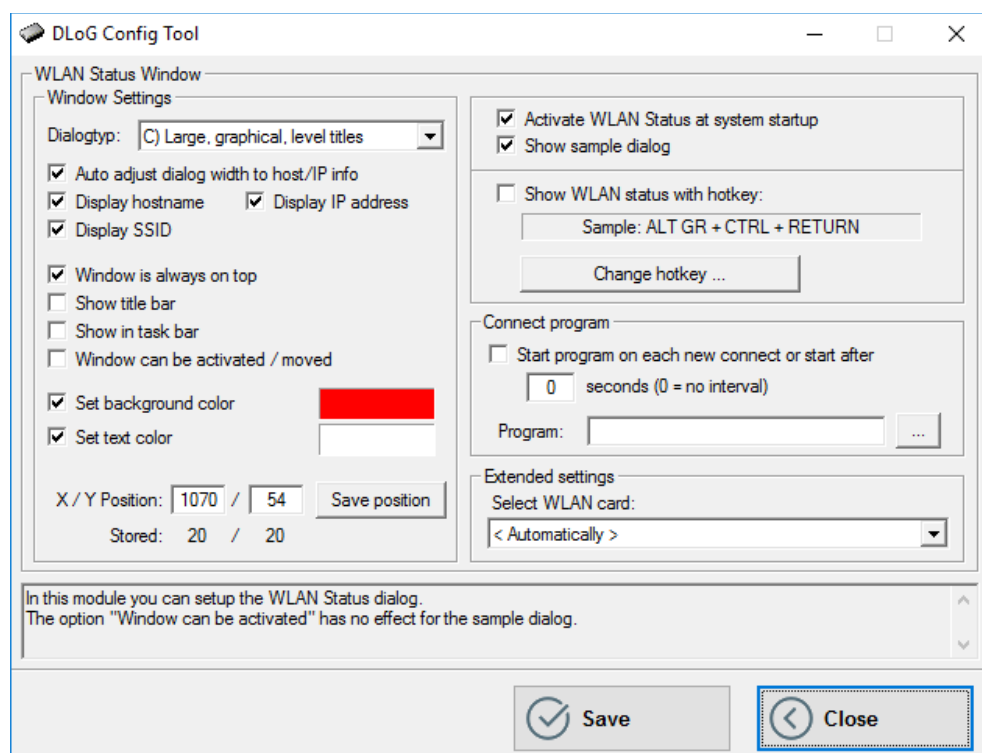
The following values are a good rule of thumb:

– Signal strengths less than -70 dBm are good.

– Quality between 10 and 20 dB is good.

NOTE

These values are only approximate and depend on many factors (different sensitivity of receivers, data bandwidth, etc.).

14.4. WLAN status window settings dialog

Figure 14.2: WLAN Status Window dialog

Window settings

Dialog type	In the selection list, select the desired design for the WLAN status window. The signal strength and quality can be displayed as dBm values, percentages, or a bar chart.
Auto adjust Dialog width to host/IP info	The width of the WLAN status window can be defined as a fixed value. Otherwise, it depends on the length of the host name and the IP address.
Display host name	Shows the host name in the WLAN status window.
Show IP address	Shows the IP address in the WLAN status window.
Display SSID	SSID (Service Set Identifier) is displayed in the WLAN Status Window.
Windows is always on top	The WLAN status window will always be displayed on top of other windows.
Show title bar	Display the WLAN status window with a title bar.
Show in task bar	The WLAN status window will appear in the task bar.
Window can be activated / moved	The position on the WLAN status window on the screen can be moved. If the title bar is displayed, the window can be activated.
Set background color	The background color of the WLAN status window is selected. Click the color field to see a palette of all available colors.

Set text color	The text color of the WLAN status window is selected. Click the color field to see a palette of all available colors.
X/Y position	The position of the WLAN status window on the screen is defined here. The window will appear at this position after every program start. If you move the example dialog around the screen using the mouse pointer, the current coordinates will automatically be entered. Then click on Save position.
Activate WLAN status at system startup	This checkbox must be activated for the WLAN status window to be displayed.
Show sample dialog	If clicked, the settings made in the dialog will be demonstrated in an example window.
Show WLAN status with hotkey	The WLAN status window can be turned on and off with an Industrial Computer front panel key defined here. To be able to use this setting and as a result the front panel key (Hotkey), the Industrial Computer must be restarted.

Connect program

Start program on each new connect or start after ...	This setting is used to start any arbitrary software program. The program may optionally be started: after every entry into the WLAN area or periodically; if necessary, enter the time interval. If a WLAN connection exists, the program is started at the specified intervals. **Note**: the prerequisite is that there is a functioning WLAN connection! An application example: The Industrial Computer on a forklift has an online connection to the warehouse management database. If the forklift leaves the WLAN area, this online connection is interrupted. To receive updated data immediately after entering the WLAN area again, the **Connect Program** function is used to start a database update automatically.
Program	Enter the program to be started here.

Extended settings

Select WLAN card	Detect the radio card automatically or select it from the list (see also *WLAN status window and radio cards* next page).

14.4.1. WLAN status window and radio cards

The WLAN status window works exclusively with radio cards which support WMI. The WMI class is configured in "config_local.cfg" in the line "Noiseselect_01".

The WMI selection string in the format: NoiseSelect_XX=Card-Name,SELECT * ....

For XX, substitute a number from 01 to 20; at most 20 different WLAN cards can be supported .

For the card name, a few characters at the start of the WLAN adapter name are enough (not case sensitive).

The full SELECT string is then specified, separated by a comma.

14.5. Write WLAN log file

NOTE

This DLoG Config functionality is only available for Industrial Computers equipped with the "SUMMIT / LAIRD SDC-PE15N" WLAN card.

For Industrial Computers equipped with the „SPARKLAN WPEQ-261ACN (BT)" WLAN card, please use the **Advantech WLAN Client Manager (IGX Tool)** for writing WLAN log files (find details about this tool in your Industrial Computer's Operating Instructions).

To optimize the WLAN network, or e.g. to analyze errors in roaming, a WLAN log file can be generated using the DLoG Config program.

⇨ For this, edit the **Config_local.cfg** file in the **DLoG** directory of the Industrial Computer (e.g. with Notepad).

⇨ The entry "**DebugLogging=0**"entry is located by default in section **CfgWLANStatus**
0 means: no log file will be generated.
1 means: a log file will be generated and written to the DLoG directory. Filename of the log file: WLAN_DebugLog.txt.

⇨ Restart the computer to activate the setting and generate the log file.

NOTICE: Property damage

Only generate WLAN log files <u>temporarily</u> for analysis purposes. Afterwards make sure to set the "DebugLogging" entry to "0".

Otherwise system errors are a threat, since if the EWF is deactivated storage media will be filled with log files. Size of a WLAN log file: up to 50 MB. When this size is reached, the DLoG Config automatically creates BAK files, which are sequentially numbered.

Figure 14.3: Example of a WLAN log file
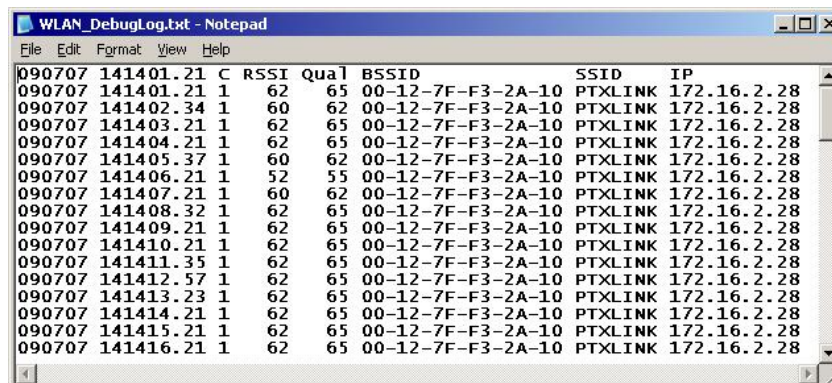
Information in the WLAN log file:

The following basically applies:

– Only the information which is displayed in the WLAN status window is written in the WLAN log file (according to the definition in the DLoG Config menu **WLAN Status Window**).

– The maximum size of the WLAN log file is 50 MB. When this size is reached, the DLoG Config automatically creates BAK files, which are sequentially numbered.

The WLAN log file contains eight columns with the following information:

The column heading is displayed after every 100 lines.

– Date

– Time (to one-hundredth of a second)

– C= Connected
  0 means no, 1 means yes

– RSSI signal strength

– Signal quality

– BSSID Mac address of current connected access point

– SSID of WLAN network

– IP-address of Industrial Computer

15. Software Activation

You can enable the **software keyboard** option in this menu. If this option is purchased, the customer receives an activation key or a license file, which must be entered here.
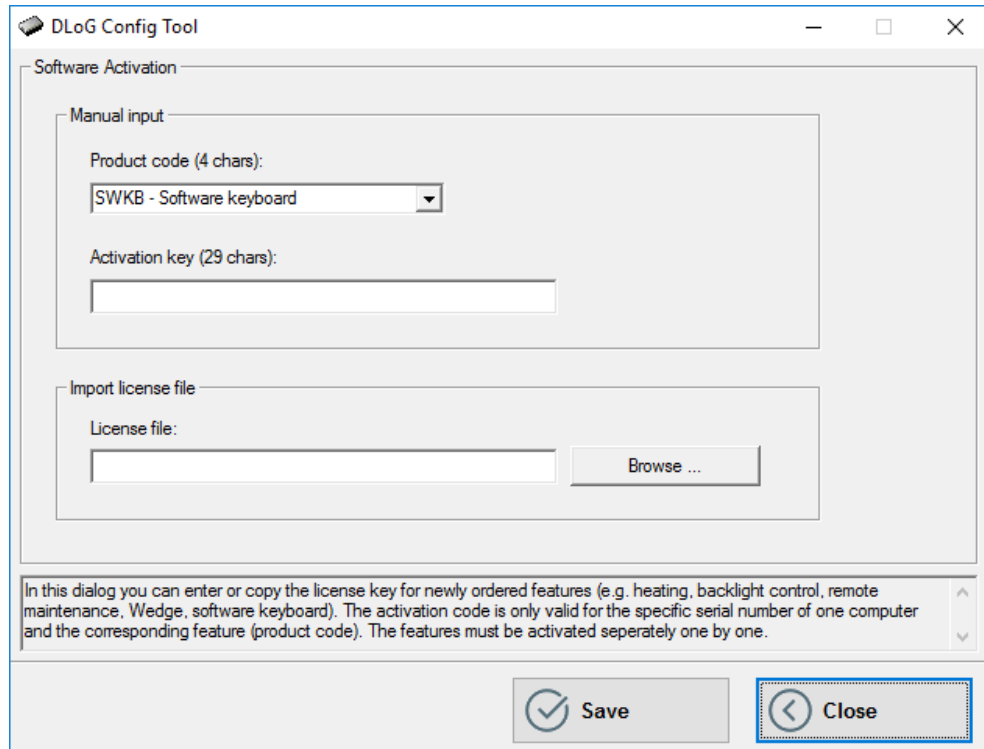

Figure 15.1: Software Activation menu

15.1. Activate software keyboard

– Activate the **Product code** in the line **SWKB Software keyboard**.
– Enter the activation key you received when you purchased the option.
   <u>Or:</u> Click **Search file** under **Import license file** and load the license file that contains this key.
– **Save** the settings.

After licensing, a Keys file is automatically created for the software keyboard and is stored in the Keys directory. If this file is accidentally deleted, the software keyboard will no longer function. After three minutes running time it switches itself off.

16. Enhanced Write Filter

Write protection is enabled and managed in the **Enhanced Write Filter** menu. This allows you to protect the system against modification of any kind. All write accesses or modifications on an activated EWF drive will be discarded with the next restart.
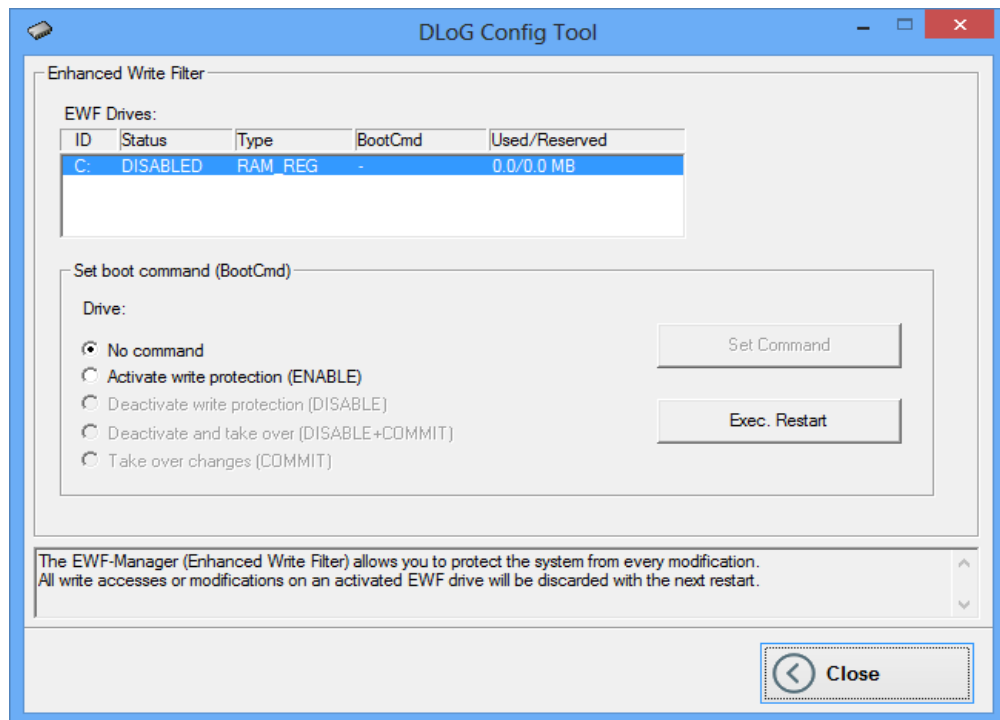EWF settings are **not** saved or loaded to import/export configurations.

Figure 16.1: Enhanced Write Filter menu

The computer's EWF drives are displayed in the **EWF Drives** field (there is usually only one). The settings below apply to the EWF drive selected here.

Set boot command (BootCmd)

No command	The set boot commands are deactivated again.
Activate write protection (ENABLE)	Activates write protection: All system changes are written exclusively to the main memory; they are discarded when the computer is restarted. To activate this setting, reboot the computer!

Deactivate write protection (DISABLE)	Disables write protection. To activate this setting, reboot the computer!
Deactivate and take over (DISABLE+COMMIT)	This setting is a combination of **Deactivate write protection** and **Take over changes**: Write protection is deactivated; changes are applied.
Take over changes	Temporarily deactivates write protection in order to commit current changes to the system. Once finished, write protection is immediately active again.

⇨ Click **Set Command** to apply the settings.

⇨ Click the **Exec. Restart** button to restart the computer and activate the settings.

17. File Based Write Filter

NOTE

The **File Based Write Filter** menu is only relevant for Embedded operating systems.

17.1. Current and target status

The left column of the FBWS menu always shows the currently installed FBWF configuration; the right column shows the newly defined configuration after the computer is restarted.
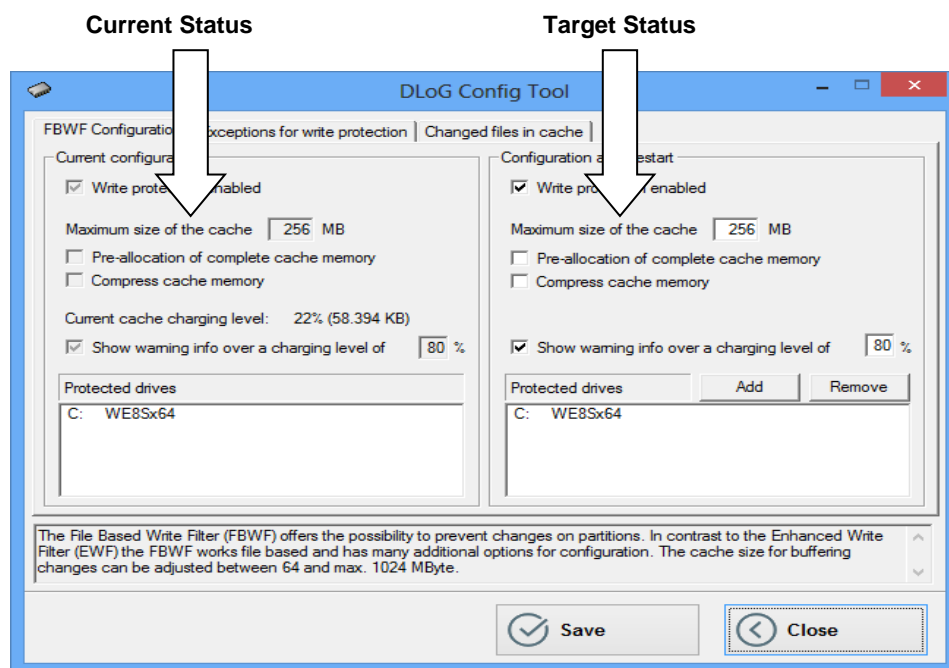

Figure 17.1: FBWF configuration menu

When the desired configuration is complete: Don't forget to **save** the settings.

17.2. FBWF Configuration

The **File Based Write Filter** (FBWF) offers the possibility to protect a partition from changes. In contrast to the **Enhanced Write Filter** (EWF), the FBWF filters on a file basis and offers many additional options for configuration. The cache for intermediate storage of the changes can be set for between 64 and 1024 MB.

Current Configuration: The currently valid FBWF settings are displayed.

Configuration after restart

Write protection enabled	Enable FBWF; the computer must be rebooted to activate the settings.
Maximum size of the cache	Memory size available for the overlays. Entries between 64 and 1024 MB are possible.
Pre-allocation of complete cache memory	Maximum memory is not dynamic, but statically reserved in advance.
Compress cache memory	Memory content is compromised
Show warning info over a charging level of	Enter the percentage load factor of the reserved memory at which the warning message should be displayed.
Protected drives Add/Remove	The hard drives listed here are protected from changes. After clicking on **Add** or **Remove**, a list of hard drives is displayed.

When the desired configuration is complete: Don't forget to **save** the settings.

17.3. Exceptions for write protection

Here you can define exceptions for write protection. Entire directories or individual files can be specified. Changes to files on the exception list are written directly to the file system, as usual. The left column of the menu shows the currently set FBWF configuration; the right column shows the newly defined configuration after the computer is restarted.
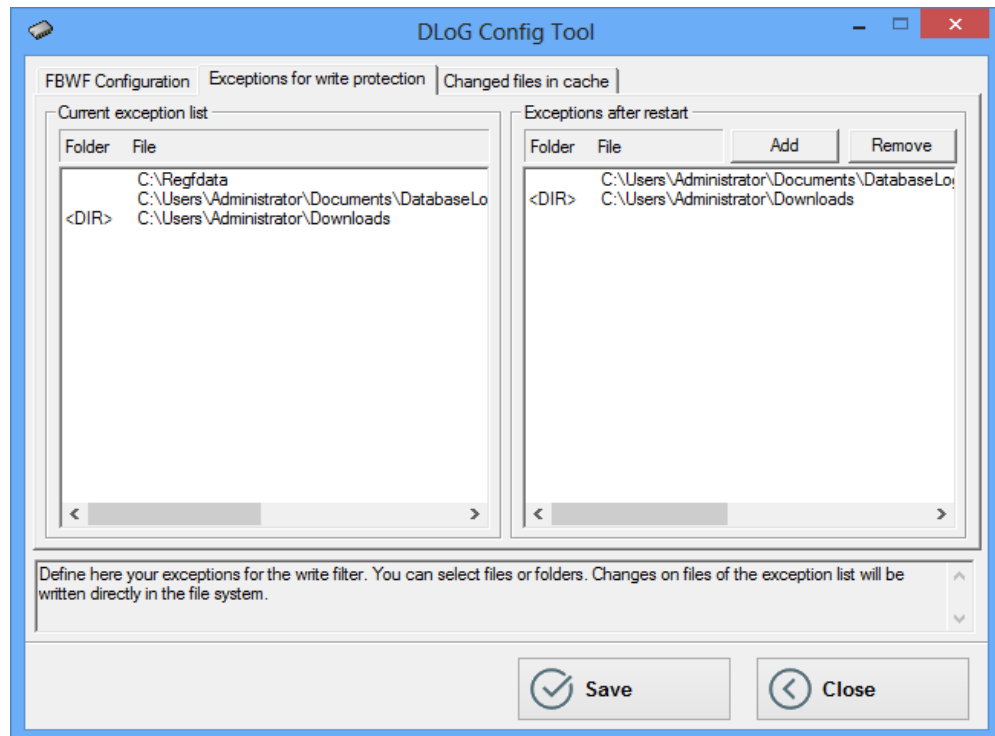

Figure 17.2: Exceptions to write protection

In the **Current exception list** the currently valid settings are displayed.

Exceptions after restart: After clicking on **Add** or **Remove**, a list of hard drives and files is displayed.

When the desired configuration is complete: Don't forget to **save** the settings.

17.4. Changed files in the cache

When FBWF is active, files are shown here that are protected by FBWF and that were changed during the run time.

The following is possible here:

- apply changes and write them to the file system

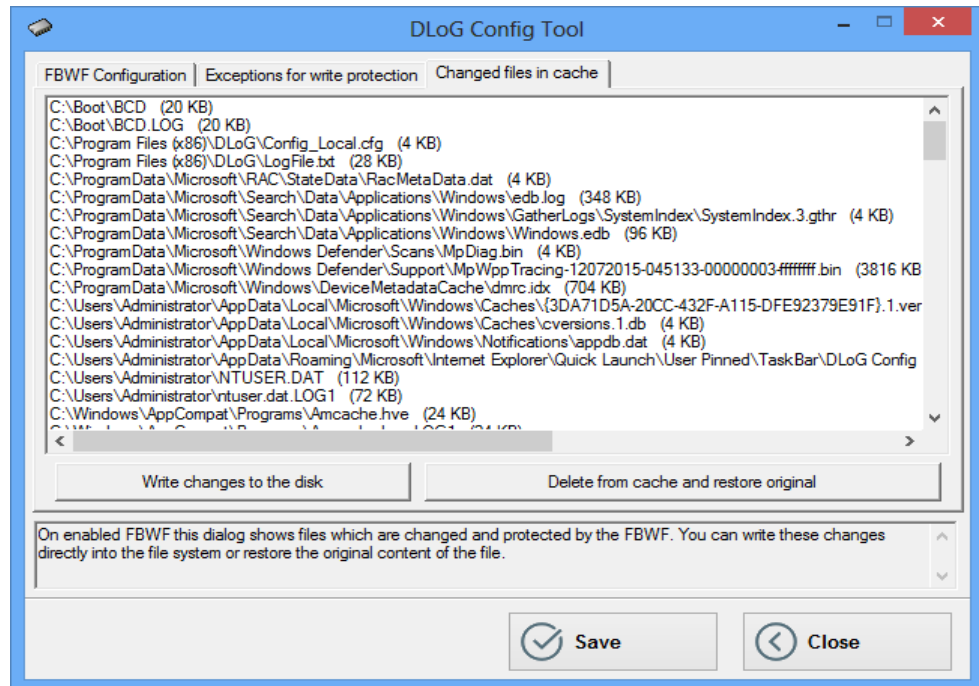- or restore the original status of the file and delete it from the cache.

Figure 17.3: Modified files in the cache

Procedure:

⇨ Select the individual lines in the list.

⇨ Press the **Write changes to the disk** button if the changed data that is still in the cache is to be written to the respective hard drive.

⇨ Or select **Delete file from cache and restore original** if the modified file in the cache should be deleted.

17.4.1. Error messages

FBWF Error (1)
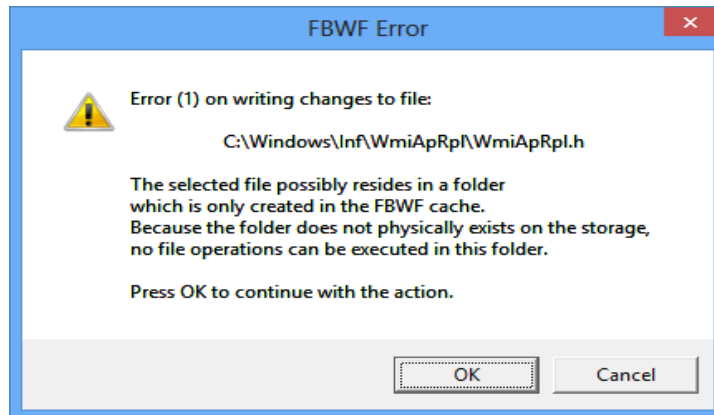
Figure 17.4: FBWF error: File is in the FBWF cache

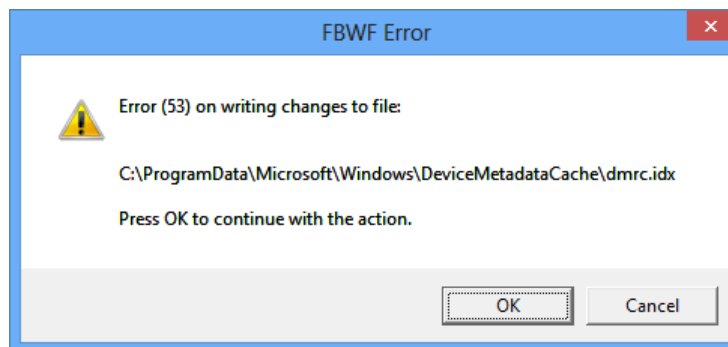| Explanation:	Files could not be written to the files, as they did not physically exist. With **OK** the file is skipped, the procedure **Write changes to data media** is carried out for the next file on the list. With **Cancel**, the procedure **Write changes to data media** is interrupted.

FBWF Error (53)

Figure 17.5: FBWF error: For files that are currently being accessed

Explanation:	Files which are currently being accessed cannot be written to data media. With **OK** the file is skipped, the procedure **Write changes to data media** is carried out for the next file on the list. With **Cancel**, the procedure **Write changes to data media** is interrupted.

18. Settings

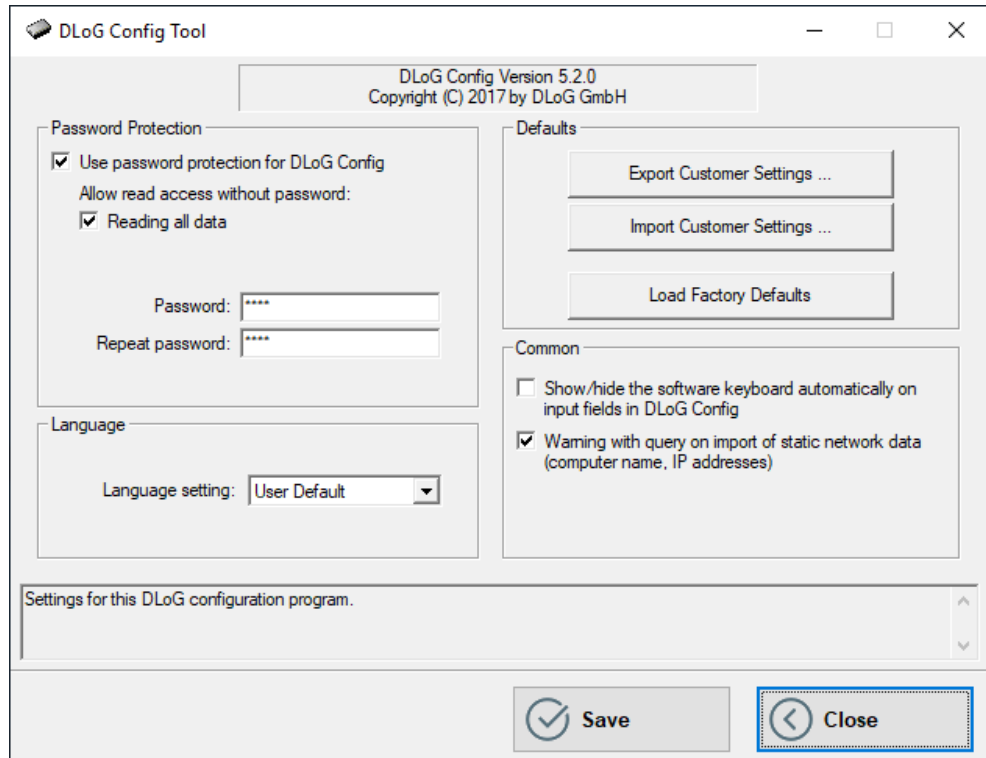In this menu, DLoG Config is configured with respect to password, language etc.

Figure 18.1: Settings menu

Password protection	
Use password protection for DLoG Config	A password can be activated to allow access to programs. Enter a password and repeat the entry in the **Repeat password** field. This is case-sensitive.

Allow read access without password:	
Reading all data	DLoG Config can be started without a password. It is possible to read all data, but no changes may be made to the settings.
Limited to data without COM port access	A password is not required to start DLoG Config. Reading of data is limited: The **Environment**, **Automatic Switch-off** and **Front Panel** menus are not available.

Language	
Language setting	The language of the DLoG Config menus is defined. The default is always the system language of the computer. If no language file is available for this language, texts will be displayed in German. Only those languages may be selected for which language files (DLoGCfg*_*.txt) are available in the Config EXE directory.

Defaults	
Export customer settings	With this function, all DLoG Config settings can be exported to a Config text file. Each export file is displayed with an info header. The export file can be imported to other Industrial Computer to maintain identical settings on all computers.
Import customer settings	Those files generated with the export function can be selected for import. It is not possible to import the local Config_Local.cfg. Before the import, a message tells you not to mix AC–DC configurations, as this can block the device. In the event that a mandatory software key for activating diverse options on a PC is missing, this is reported in a corresponding error message. Please note: If options are released in the imported Config setting, which are missing on this computer, a corresponding error message is displayed. **NOTICE: Property damage** During import not all data is checked for validity; rather the data is saved in the way that it is defined in the import file. False information could lead to failure of Industrial Computer (such as malfunctions, data loss, equipment damage etc.).
Load factory defaults	Here default settings can be loaded that are saved in a file named **FactoryDefault_<Serial number>.cfg**. This file can only be generated by DLoG service with a DLoG-internal program. The AC–DC configuration warning does not appear, as it is assumed that this is taken into account at installation. If the file is not available, an error message about a 'defect' file appears.

Common	
Show/hide the software keyboard automatically on input fields in DLoG Config	The software keyboard starts automatically when DLoG Config is started. When the cursor is placed in an input field, it is always displayed. A file named **Keyboard.cfg** must exist in the software keyboard installation directory; otherwise an error message appears. If the keyboard is started by DLoG Config, it is also terminated when DLoG Config is closed. The software keyboard version 1.5 or higher is mandatory for this. An error message is displayed when errors occur. The message is only visible after logging on.
Warning with query on import of static network data (computer name, IP addresses)	If static **IP addresses** (when DHCP is disabled) and/or a **computer name** are imported, a warning with corresponding security query may appear.

18.1. Command lines parameter IMPORT

The parameter IMPORT is available for import using batch job (DLoG Config V 2.3 and higher).

Example: DLoGCfg IMPORT=<Path>AnyExportedData.cfg

The CFG file to be imported must be generated using export from DLoG Config.

The CFG filename must contain the entire path (or at least ".\" for the current directory).

Other parameters for control of the batch import are:

NONET	The data from the config module "network" will NOT be imported
STATNET	Static IP addresses will be imported and set during batch import. Default: Static IP addresses will NOT be imported.

Please note:

To activate the imported data the computer must be restarted.

Output redirection functions in a file with ">", however the output is still additionally written to the console window.

NOTICE: Property damage

NO warning/request appears when using the COM2!
NO warning appears with information about the non-permitted mixing of configurations between AC and DC devices.

18.1.1. Info header of an export file

The info header of an export file contains the following information:

```
;----------------------------------------------------
; DLoG Config export file
;
; Exported from computer: MPC5XPEMBSP2
; Hardware serial-number: 205004056587
; Export timestamp (YMD): 2005/06/18 20:30:13
;----------------------------------------------------


[General]
DLoGCfgExportVer=1
DLoGCfgExportSNR=205004056587
```

19. List of figures

For Your Notes