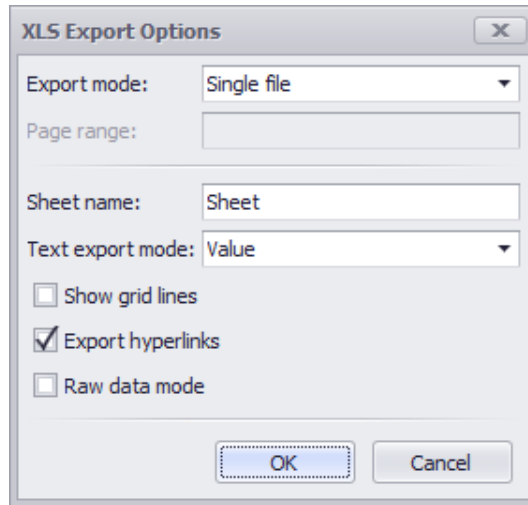
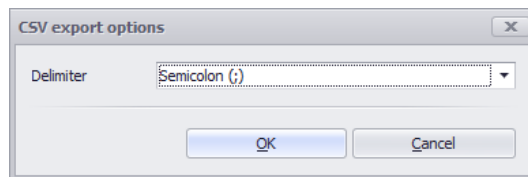


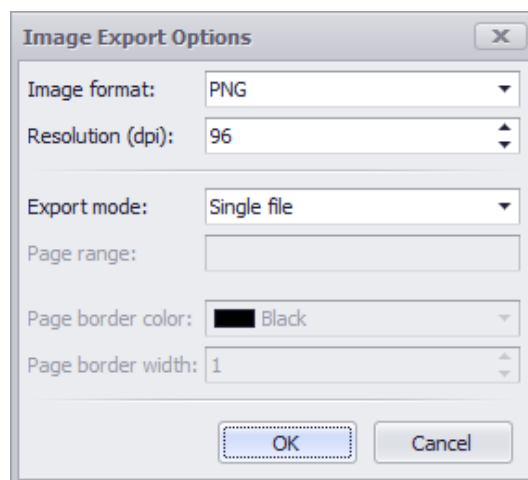
-
- Excel file:
 - Select an export mode and formatting and create your individual document.
 - By selecting "Raw data mode", the data is optimized for further processing in Excel.



- CSV file:
 - The CSV export can be used for easy processing in other applications.
 - Select your desired delimiter.

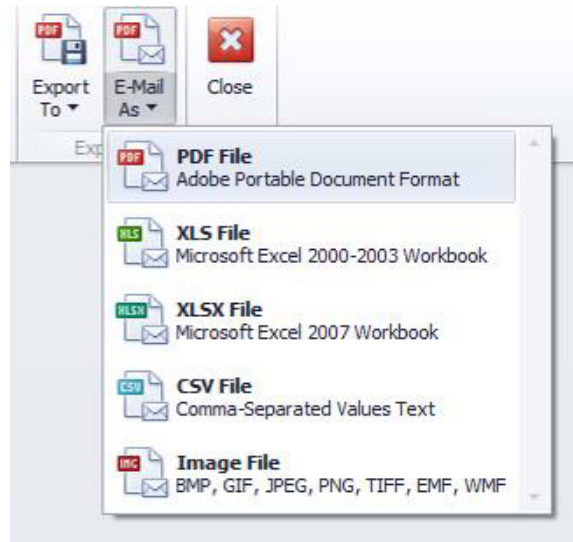
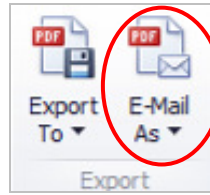


- Image File:
 - Select the image format and resolution.



7.7.6.2 E-Mail As

Click "E-Mail As" and select the required file format from the dialogue box.



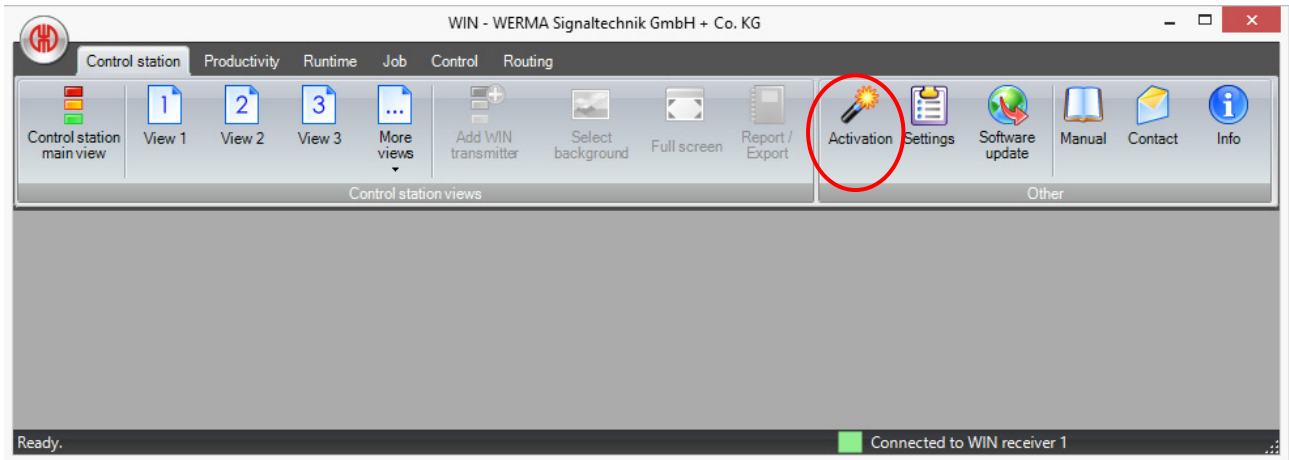
7.7.7 Close Print Preview

Click "Close" to close the Print Preview menu.



8. Activation

Click "Activation" on the menu bar.



This window opens.



8.1 Activate WIN device

For the option "Activate WIN device", proceed as follows:

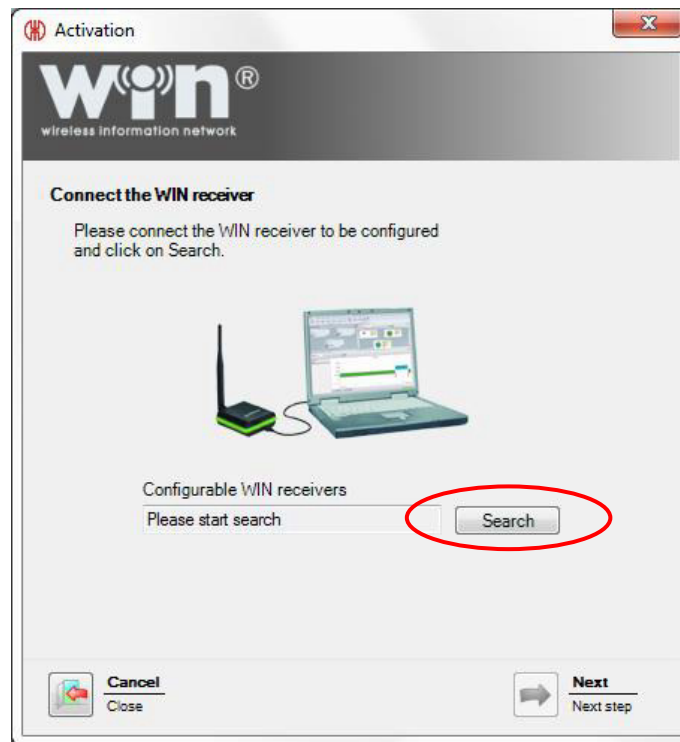
1. Select "Activate WIN device".



2. Read the information and click "Next".



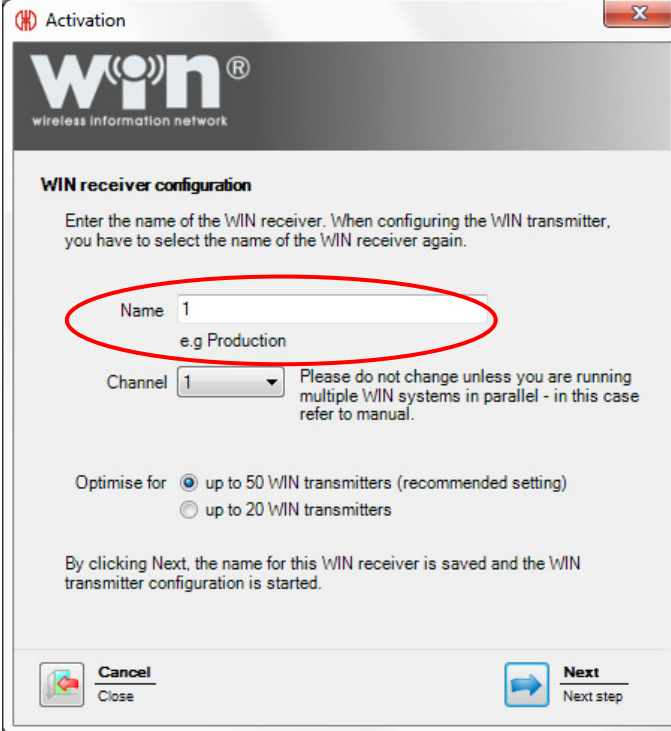
3. Connect the WIN receiver to the PC and click "Search".



4. After the WIN receiver has been recognized, click "Next".



5. If a new firmware version is available, a message appears. If you want to install the new firmware, confirm with "Yes".
6. In the following window, enter the description and click "Next".



The screenshot shows a software window titled "Activation" with a close button (X) in the top right corner. The window features the "win" logo (wireless information network) at the top. Below the logo, the section is titled "WIN receiver configuration".

The instructions state: "Enter the name of the WIN receiver. When configuring the WIN transmitter, you have to select the name of the WIN receiver again."

There are two main input fields:

- Name:** A text input field containing the number "1". Below it, the text "e.g Production" is displayed. This field is circled in red in the image.
- Channel:** A dropdown menu currently set to "1". To its right, a note reads: "Please do not change unless you are running multiple WIN systems in parallel - in this case refer to manual."

Below these fields, there are two radio button options for "Optimise for":

- up to 50 WIN transmitters (recommended setting)
- up to 20 WIN transmitters

At the bottom of the window, there are two buttons:

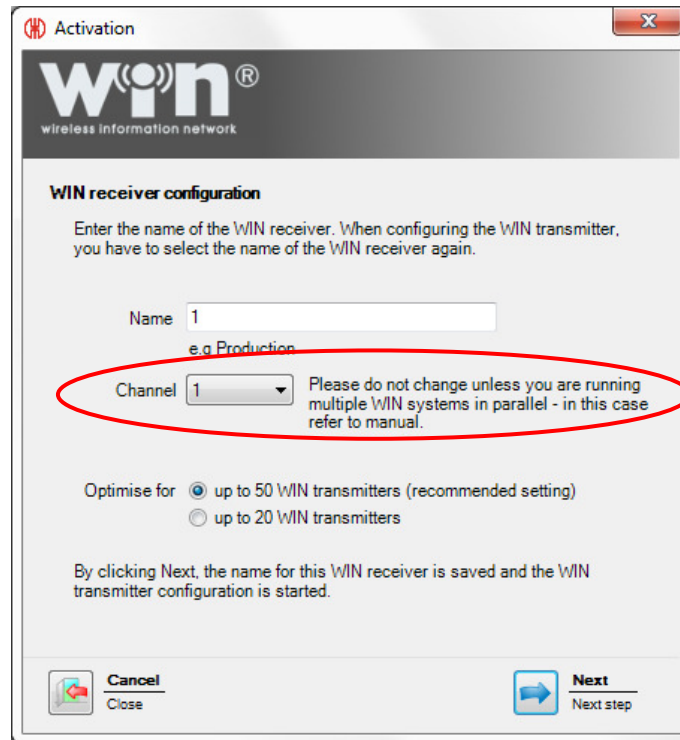
- Cancel:** Labeled "Close" below it.
- Next:** Labeled "Next step" below it.

At the bottom of the window, there is a note: "By clicking Next, the name for this WIN receiver is saved and the WIN transmitter configuration is started."

8.2 Change transmission channel

For the option "Change transmission channel", proceed as follows:

1. Select "Change transmission channel".
2. Proceed as described in chapter 8.1, including point 5.
3. In the following window, change your transmission channel and click "Next".

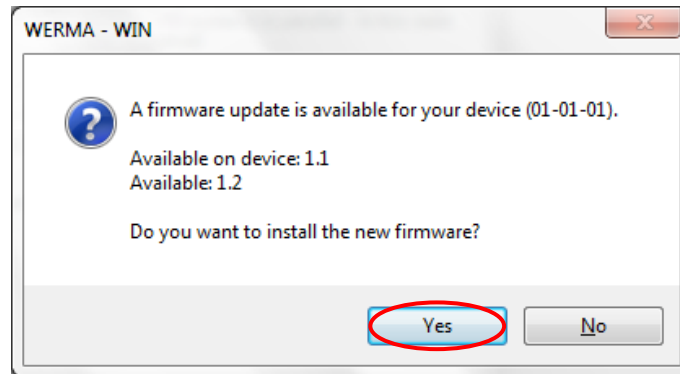


Note: If you change the transmission channel of the WIN receiver, all WIN transmitter (which have so far communicated with this WIN receiver) have to be re-configured. Only then will the WIN transmitter communicate on the same channel as the WIN receiver. See chapter 5.2 for configuration of the WIN transmitter.

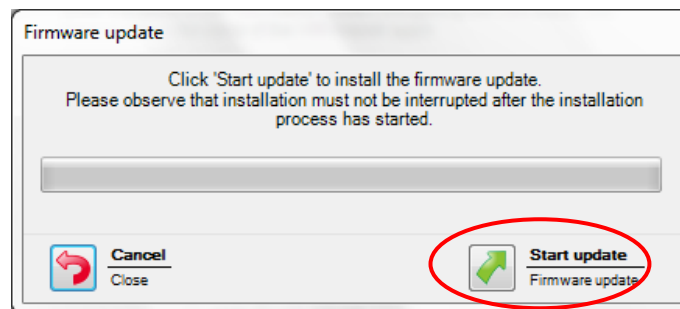
8.3 Firmware update

For the option "Firmware update", proceed as follows:

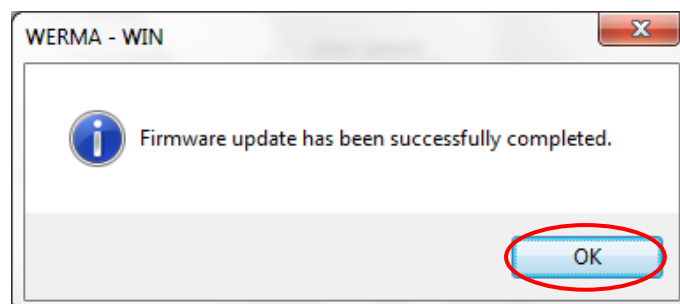
1. Select the option "Firmware update".
2. Proceed as described in chapter 8.1, including point 5.
3. Confirm the following message with "Yes".



4. Click „Start update“. This process can take several minutes to complete.



5. The firmware update has been successfully completed. Click „OK“.



8.4 Change transmission range

The "Optimize transmission range" option enables you to optimize your wireless communication.

1. Choose "Optimize transmission range" in the selection window.
2. Proceed as described in chapter 8.1, including point 5.
3. You can now define whether to optimize your system for up to 50 WIN transmitter (standard) or for up to 20 WIN transmitter. Click "Next".

Activation

win[®]
wireless information network

WIN receiver configuration

Enter the name of the WIN receiver. When configuring the WIN transmitter, you have to select the name of the WIN receiver again.

Name
e.g Production

Channel Please do not change unless you are running multiple WIN systems in parallel - in this case refer to manual.

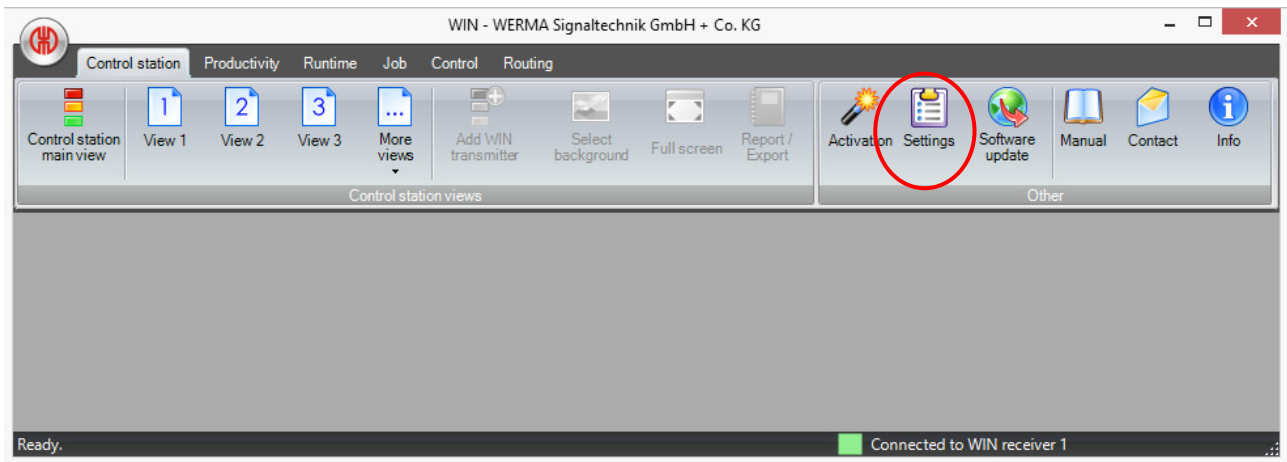
Optimise for up to 50 WIN transmitters (recommended setting)
 up to 20 WIN transmitters

By clicking Next, the name for this WIN receiver is saved and the WIN transmitter configuration is started.

Close Next step

9. Settings

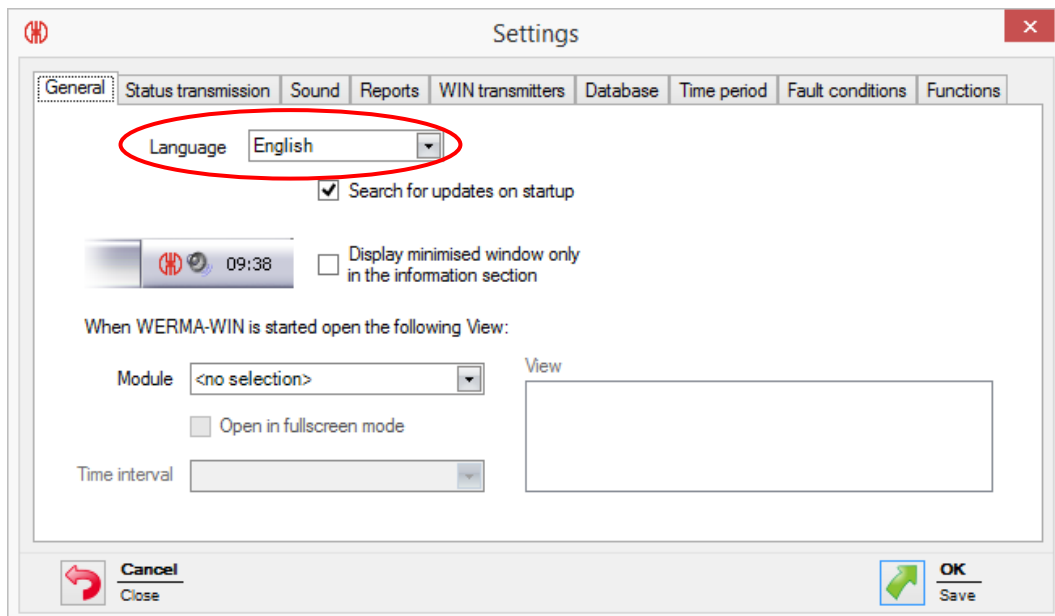
Click "Settings" on the menu bar.



9.1 General

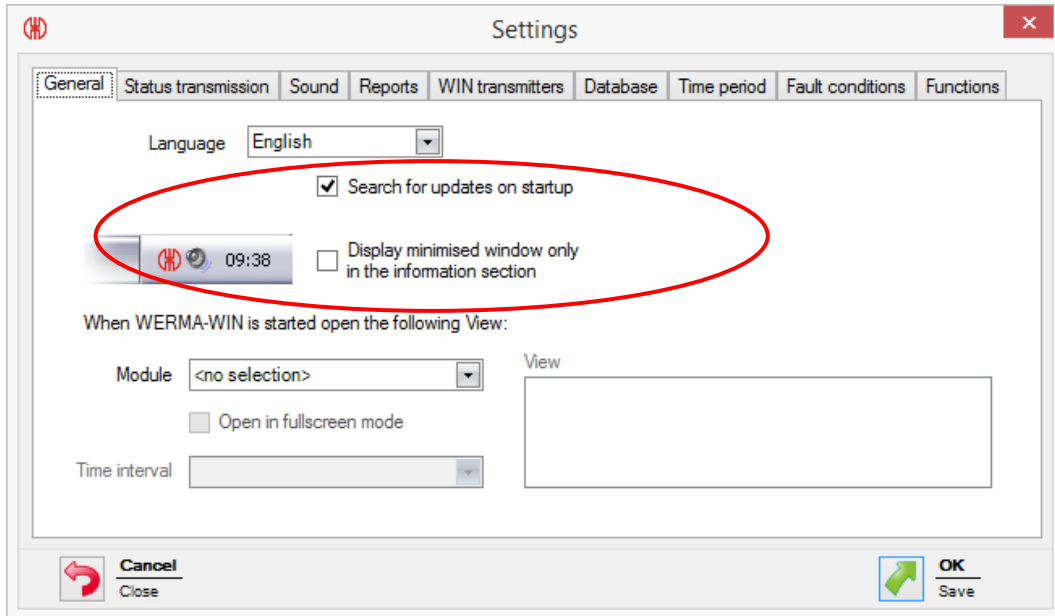
9.1.1 Language Setting

This menu can be used to change the language of the WIN software. Select the desired language.



9.1.2 Setting for the WIN software

If you have selected the "Search for updates on startup" box, the WIN software will search for updates each time it starts up.



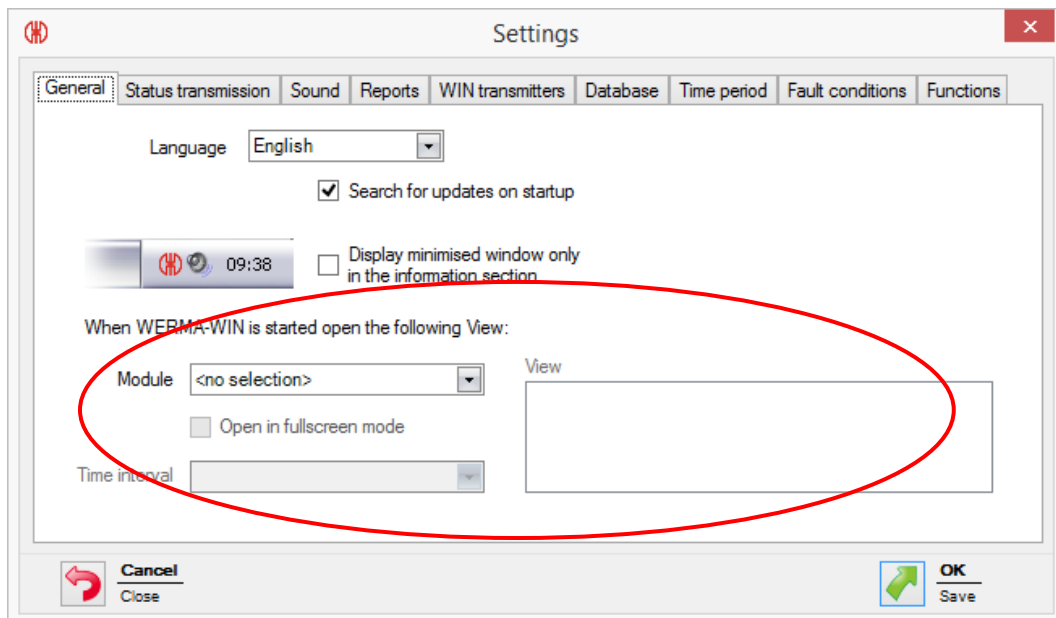
Note: In order to search for product updates, it is essential that an Internet connection to www.werma.com can be established.

You can also decide whether the minimized program window should be displayed in the task bar or in the information section (system tray).

9.1.3 Autostart functions

The autostart function can be used to open a specific view each time the WIN software is opened. The following table provides an overview of the autostart functions.

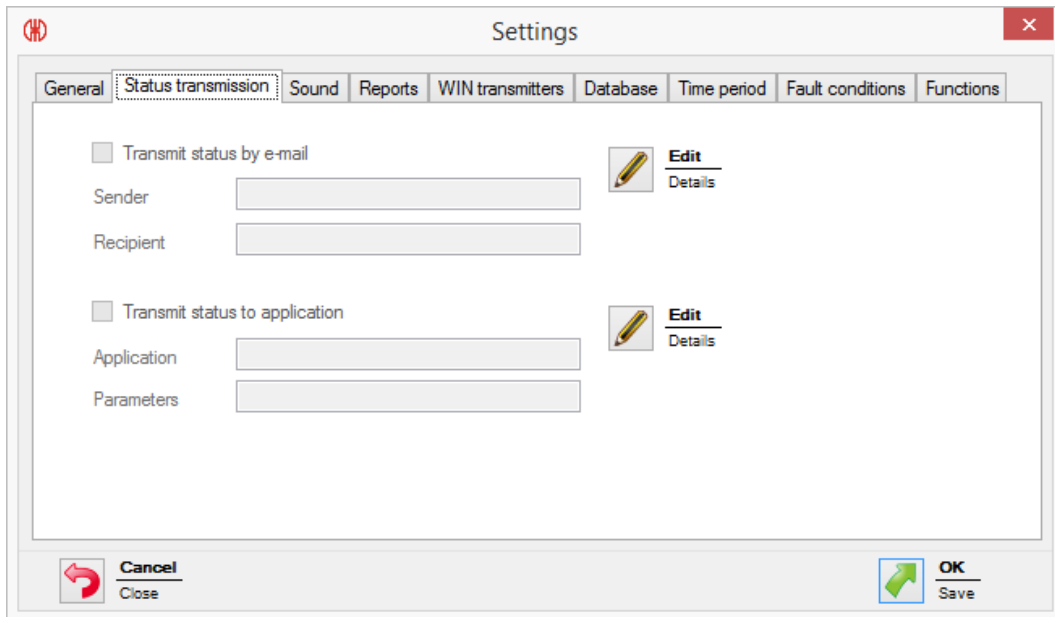
Module	Main View	Further Views	Time interval	Full screen mode
Control station	✓	✓	✗	✓
Productivity	✓	✓	✓	✓
Runtime	✓	✓	✓	✓
Job	✓	✗	✗	✗
Control	✓	✗	✗	✗
Routing	✓	✗	✗	✗



Note: A number of WIN transmitters can be selected for the automatic start in the Runtime module by simply clicking on the relevant WIN transmitter.

9.2 Status transmission

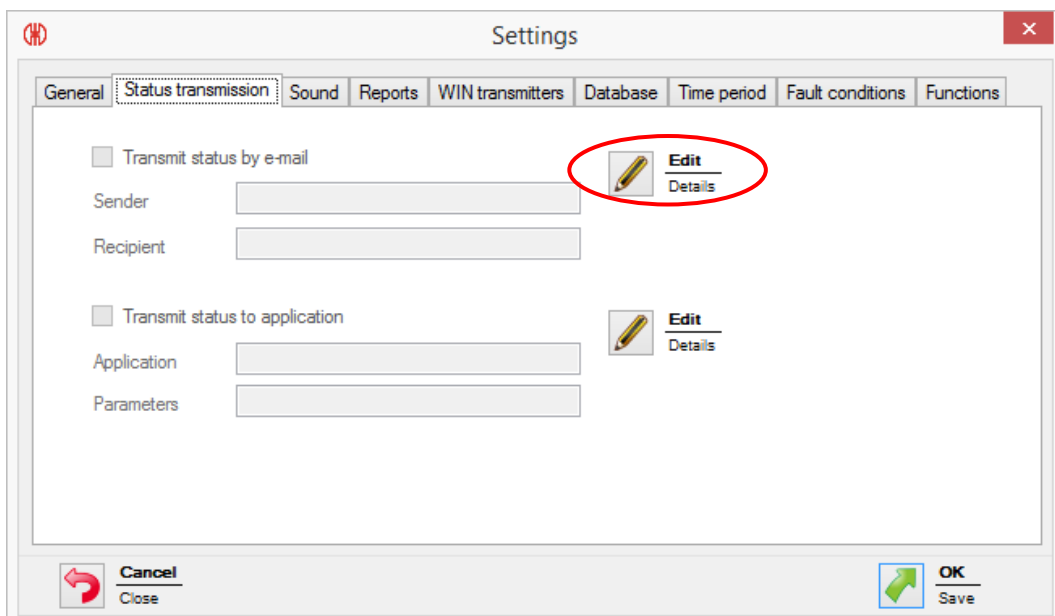
You can transmit the status by e-mail or to an application. Click "Edit" for the relevant configuration.



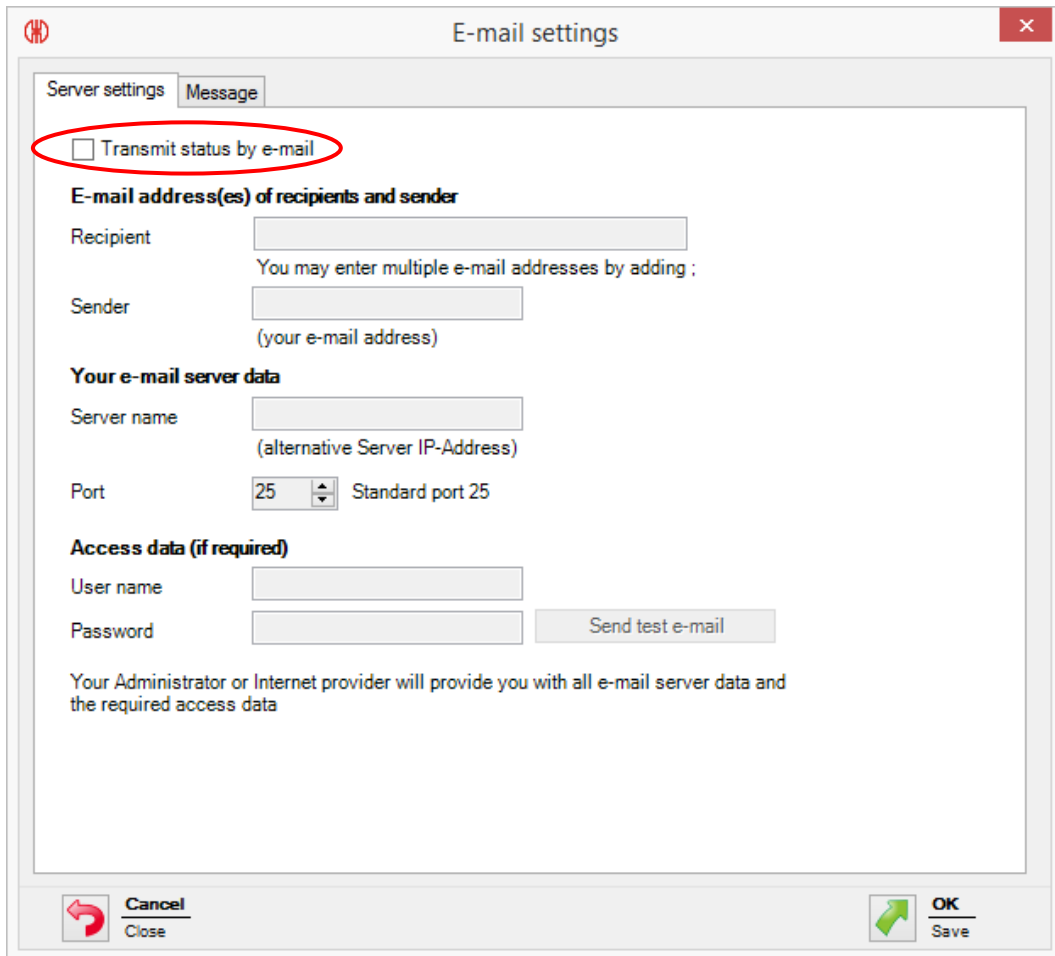
In order to activate the status transmission for individual WIN transmitter, proceed as described in chapter 7.1.6.

9.2.1 E-Mail settings

1. Select "Edit" in the area of "Transmit status by e-mail".



2. To configure the e-mail settings you must first enter the server settings. Check "Transmit status by e-mail" box.



The screenshot shows a dialog box titled "E-mail settings" with a red close button in the top right corner. It has two tabs: "Server settings" (selected) and "Message". Under "Server settings", there is a checkbox labeled "Transmit status by e-mail" which is circled in red. Below this, there are sections for "E-mail address(es) of recipients and sender" with "Recipient" and "Sender" text boxes, and "Your e-mail server data" with "Server name" and "Port" (set to 25) text boxes. There is also an "Access data (if required)" section with "User name" and "Password" text boxes, and a "Send test e-mail" button. At the bottom, there are "Cancel" and "OK" buttons.

- Enter the recipient's e-mail address in the "Recipient" field. To separate multiple e-mail addresses enter a semicolon after each address. This is the default address to which emails will be sent.
- Enter the sender's e-mail address in the "Sender" field. The e-mail will be sent from this e-mail account.
- Enter the name of the e-mail server in the "Server name" field.
- Enter the port number for e-mail exchange for your server in the "Port" field.

-
3. If access data is required to send e-mails, enter the user name in the "User name" field and the relevant password in the "Password" field.

The screenshot shows a dialog box titled "E-mail settings" with a close button (X) in the top right corner. It has two tabs: "Server settings" (selected) and "Message".

Under "Server settings", there is a checked checkbox for "Transmit status by e-mail".

The section "E-mail address(es) of recipients and sender" contains:

- Recipient:
- Text: "You may enter multiple e-mail addresses by adding ;"
- Sender: (your e-mail address)

The section "Your e-mail server data" contains:

- Server name: (alternative Server IP-Address)
- Port: Standard port 25

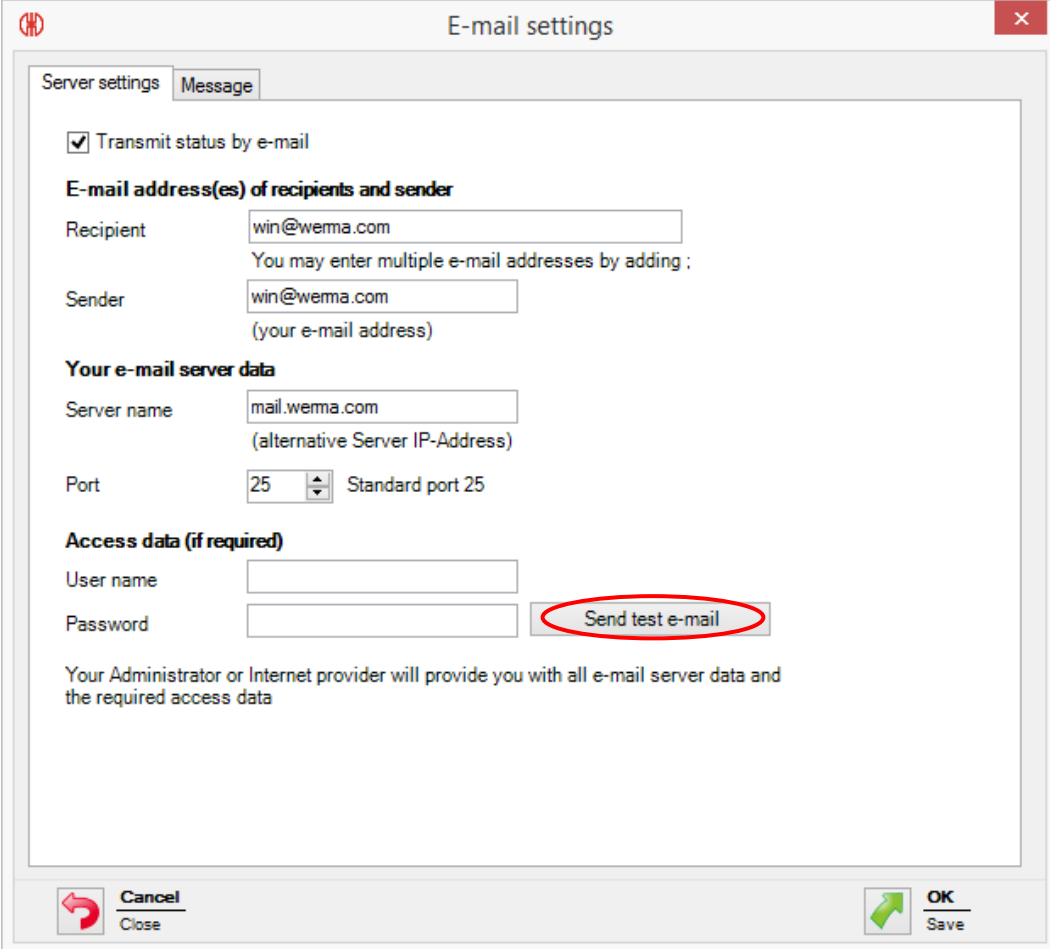
The section "Access data (if required)" is circled in red and contains:

- User name:
- Password:
- Send test e-mail:

At the bottom, there is a "Cancel" button (Close) and an "OK" button (Save).

Note: Your Administrator or Internet provider can provide all e-mail server data and the required access data.

4. When you have completed the settings, click "Send test e-mail" to send a test e-mail using the specified data.



The screenshot shows a dialog box titled "E-mail settings" with a close button (X) in the top right corner. The dialog has two tabs: "Server settings" (selected) and "Message".

Under the "Server settings" tab, there is a checked checkbox labeled "Transmit status by e-mail".

Below this is the section "E-mail address(es) of recipients and sender". It contains two text input fields: "Recipient" with the value "win@wema.com" and "Sender" with the value "win@wema.com". A note below the fields says "You may enter multiple e-mail addresses by adding ;" and "(your e-mail address)".

Next is the section "Your e-mail server data". It contains a text input field for "Server name" with the value "mail.wema.com" and a note "(alternative Server IP-Address)". Below it is a "Port" field with a dropdown menu showing "25" and a note "Standard port 25".

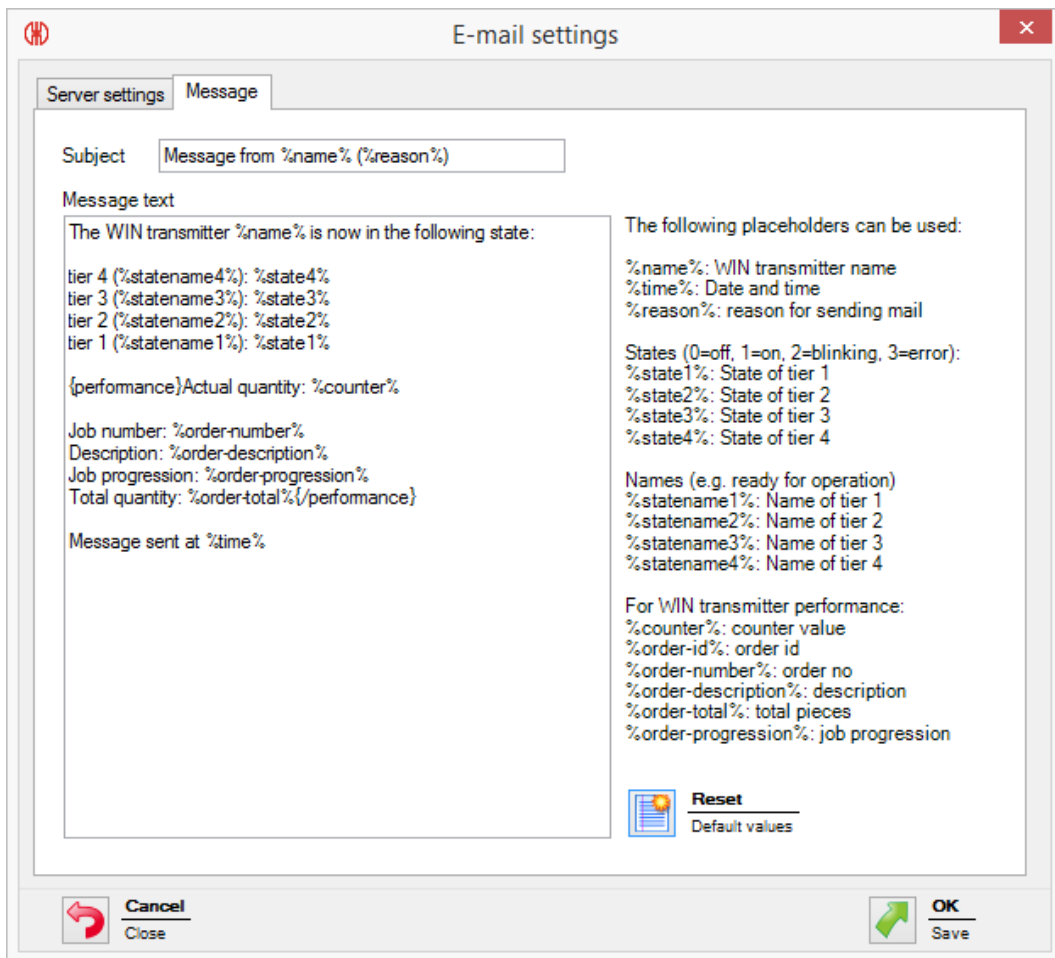
Below that is the section "Access data (if required)". It contains two text input fields: "User name" and "Password".

To the right of the "Password" field is a button labeled "Send test e-mail", which is circled in red in the original image.

At the bottom of the dialog, there are two buttons: "Cancel" (with a red arrow icon) and "OK" (with a green arrow icon). The "OK" button is also labeled "Save".

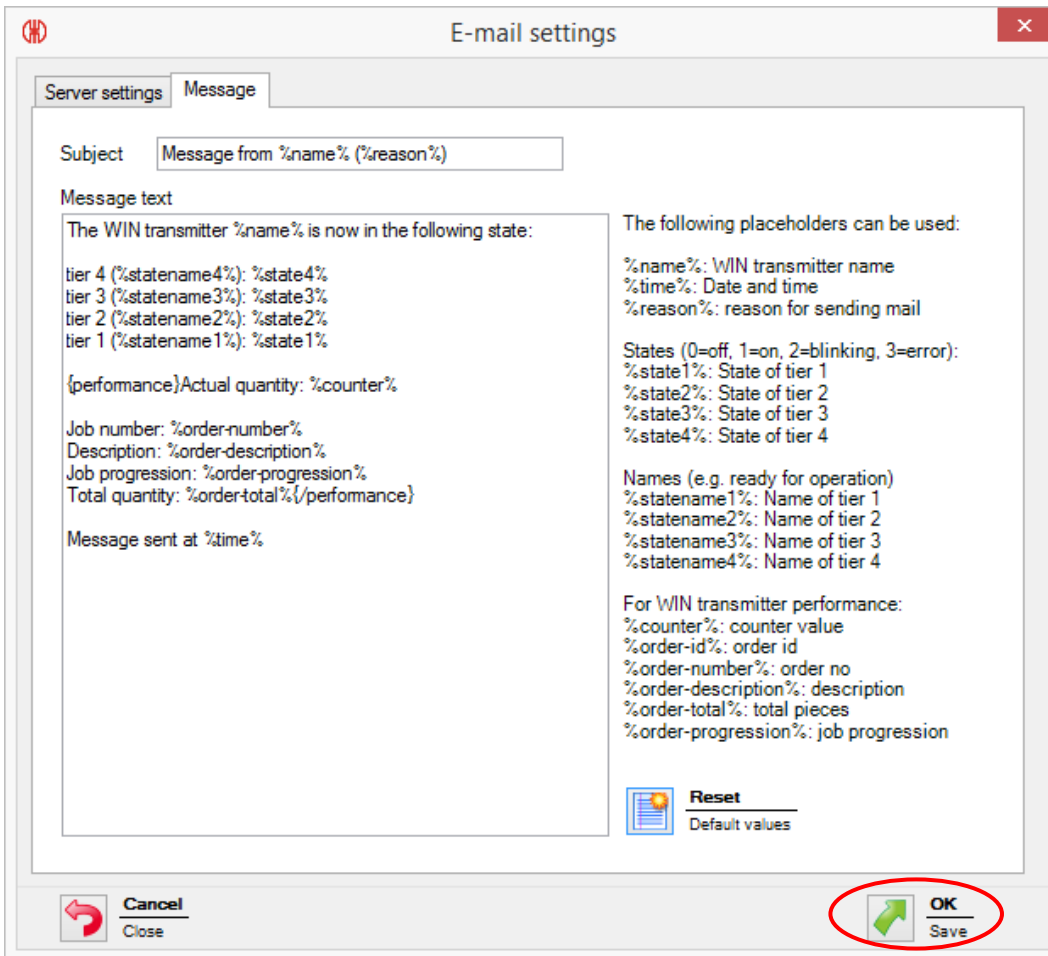
At the bottom of the dialog, there is a note: "Your Administrator or Internet provider will provide you with all e-mail server data and the required access data".

- The message text can be modified under the "Message" tab.



- Both the subject as well as the message text of the e-mail can be modified. Different placeholders can be used to write the individual message text. The placeholders each start and end with a percentage symbol (%).
- Example of a message text:
The WIN transmitter %name% changed its status at %time%.
 tier 4 (%statername4%): %state4%
 tier 3 (%statername3%): %state3%
 tier 2 (%statername2%): %state2%
 tier 1 (%statername1%): %state1%

6. When you have completed all the settings click "OK" to save your settings.



E-mail settings

Server settings | **Message**

Subject: Message from %name% (%reason%)

Message text

The WIN transmitter %name% is now in the following state:

tier 4 (%statername4%): %state4%
tier 3 (%statername3%): %state3%
tier 2 (%statername2%): %state2%
tier 1 (%statername1%): %state1%

{performance}Actual quantity: %counter%

Job number: %order-number%
Description: %order-description%
Job progression: %order-progression%
Total quantity: %order-total%{/performance}

Message sent at %time%

The following placeholders can be used:

%name%: WIN transmitter name
%time%: Date and time
%reason%: reason for sending mail

States (0=off, 1=on, 2=blinking, 3=error):
%state1%: State of tier 1
%state2%: State of tier 2
%state3%: State of tier 3
%state4%: State of tier 4

Names (e.g. ready for operation)
%statername1%: Name of tier 1
%statername2%: Name of tier 2
%statername3%: Name of tier 3
%statername4%: Name of tier 4

For WIN transmitter performance:
%counter%: counter value
%order-id%: order id
%order-number%: order no
%order-description%: description
%order-total%: total pieces
%order-progression%: job progression

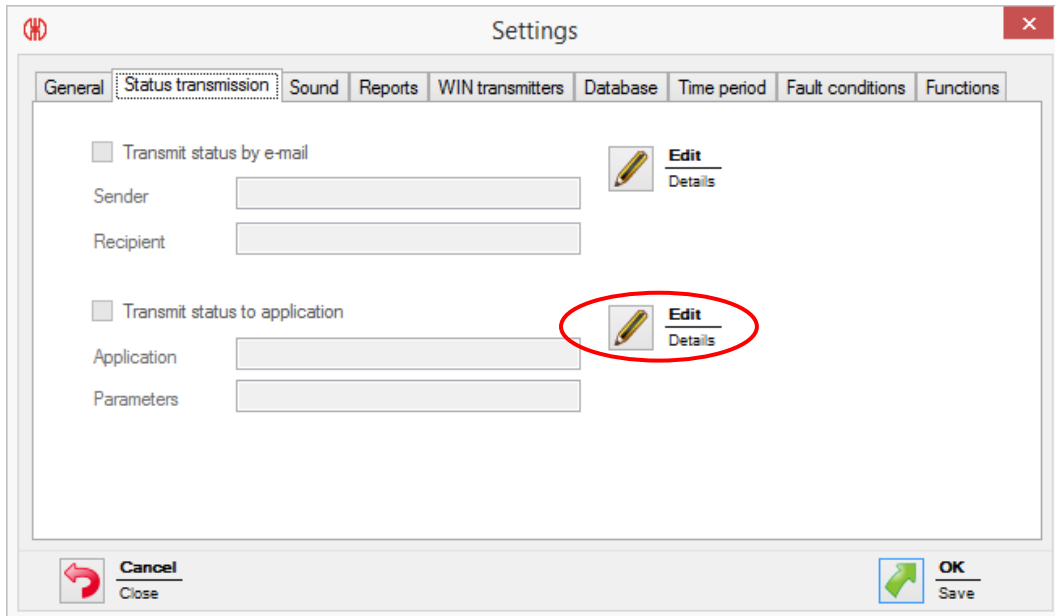
Reset
Default values

Cancel **OK**
Close Save

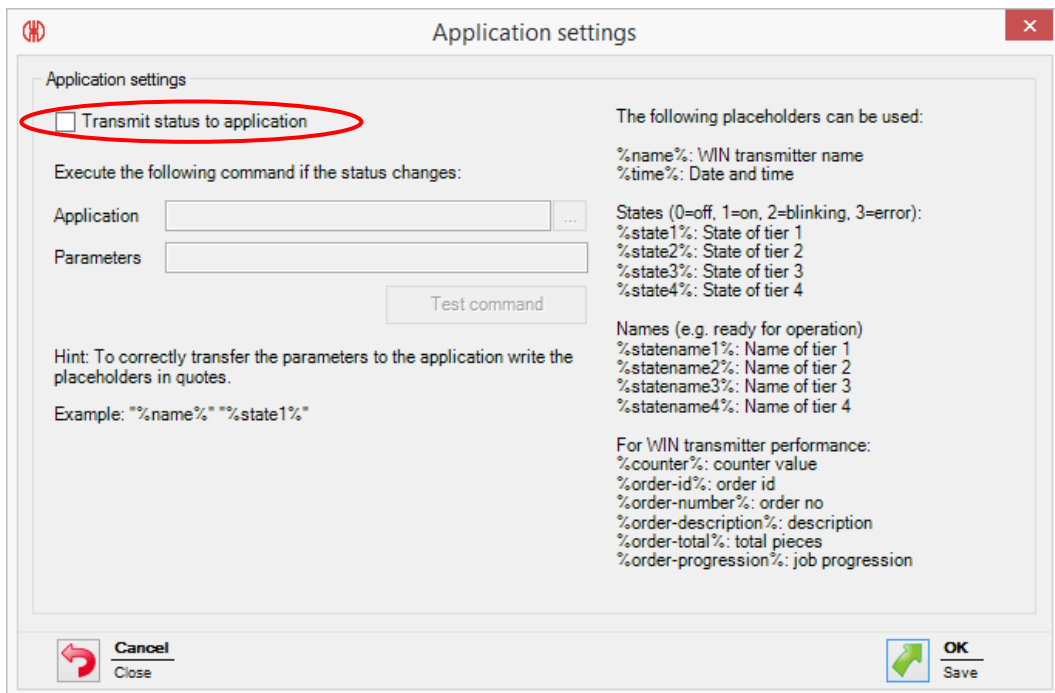
Note: To reset your message text to the default values click the "Reset" button.

9.2.2 Application settings

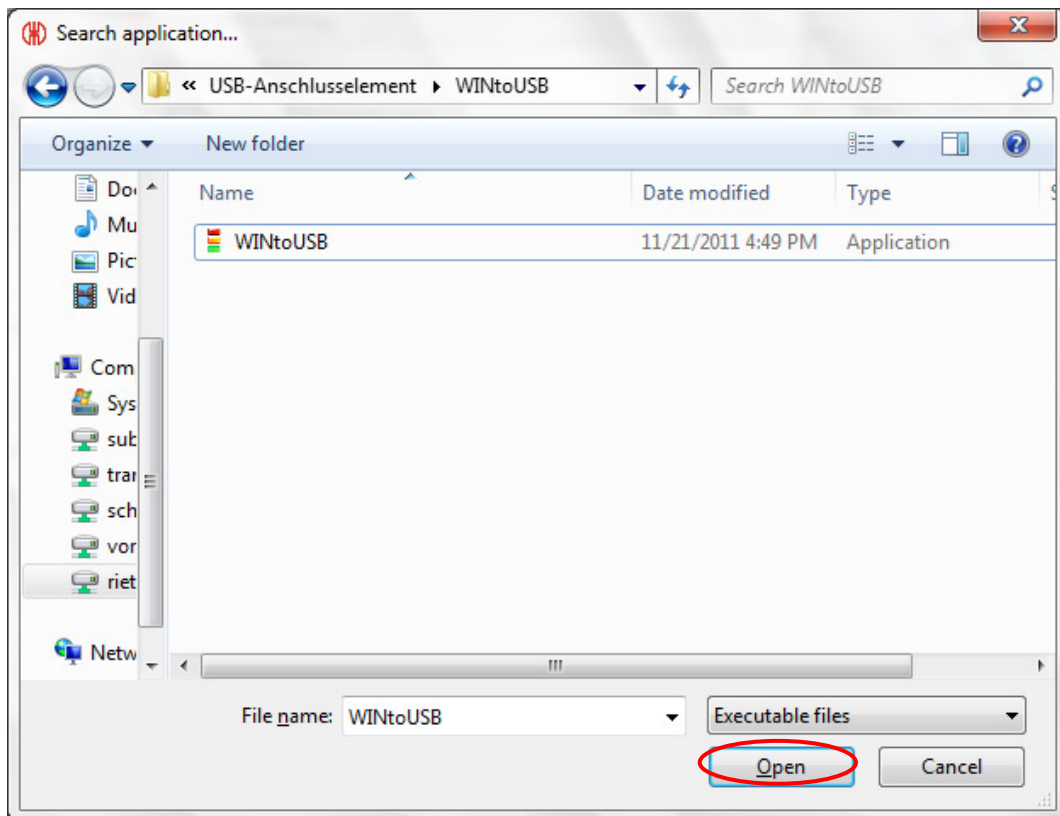
1. Select "Edit" in the area of "Transmit status to application".



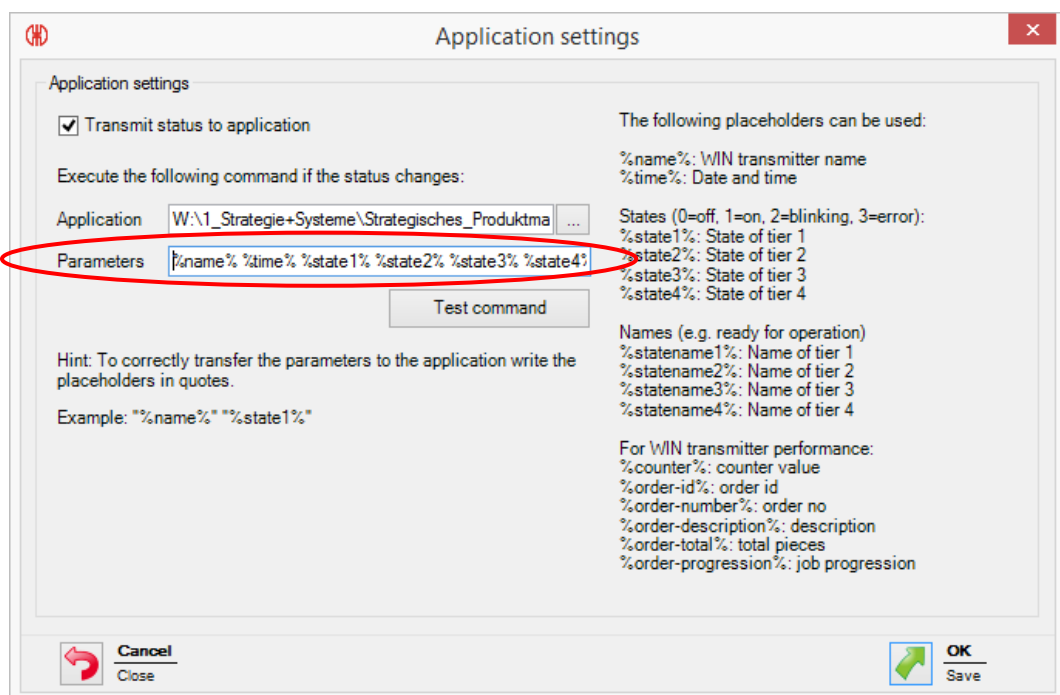
2. The application settings allow you to transmit the statuses of your signal towers to another application for further processing. Select the "Transmit status to application" box.



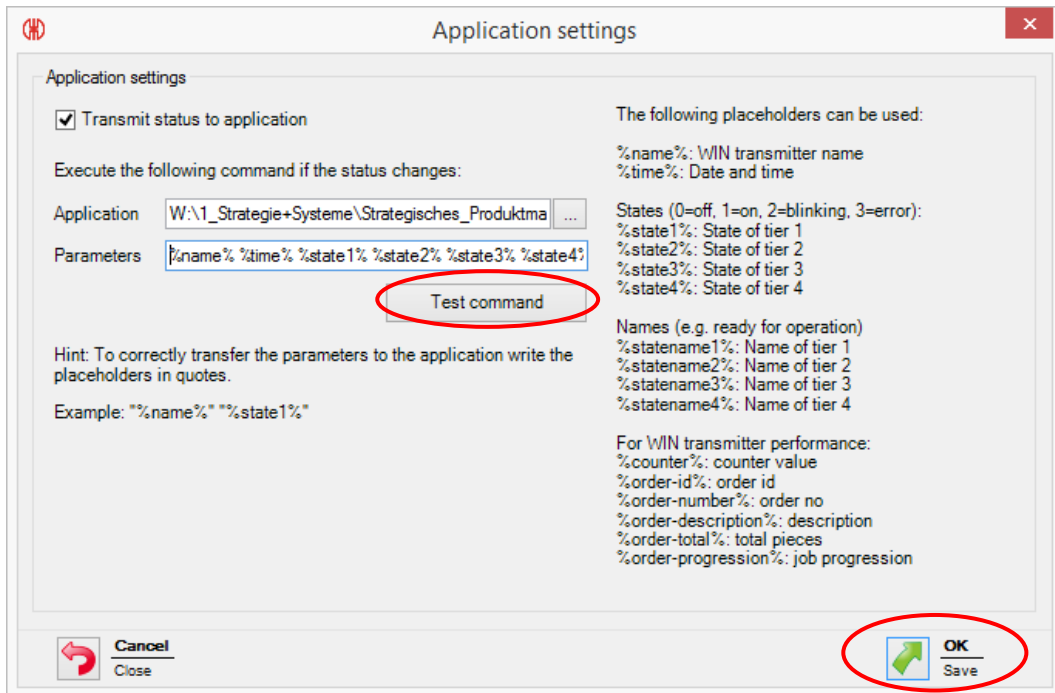
- Click the "..." button to choose the application you wish to use. The following window opens. Choose the application and click "Open".



- You can now define which parameters you want to transfer to the application using the described placeholders.



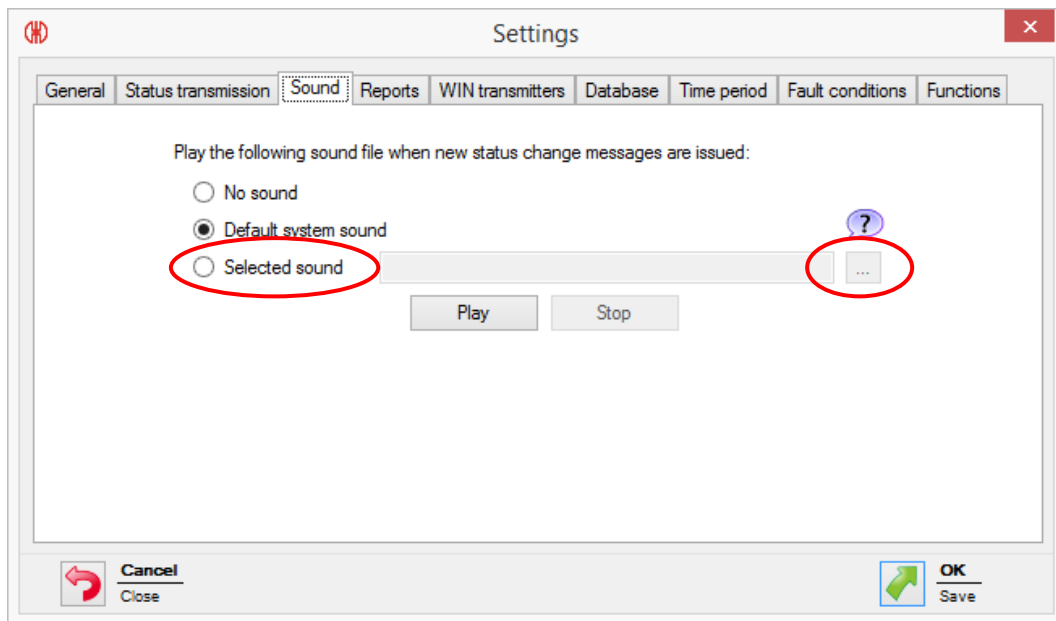
5. To activate and test the application using the defined parameters, click the "Test command" button. When you have completed all the settings, click "OK" to save your settings.



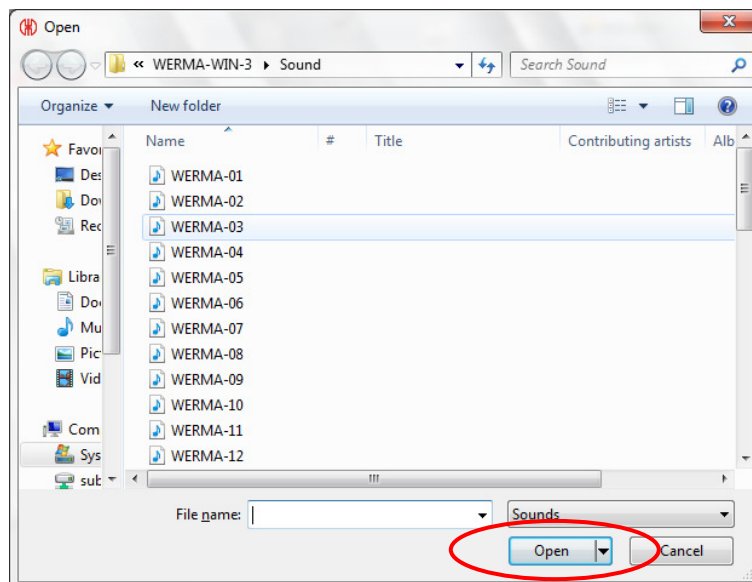
9.3 Sound

You can select an individual sound for the status change messages (see chapter 7.1.5).

1. You can choose to play no sound, the default system sound or a selected sound. If you want to use a selected sound, click "Selected sound" and then "..." to navigate to the location of the desired sound file.

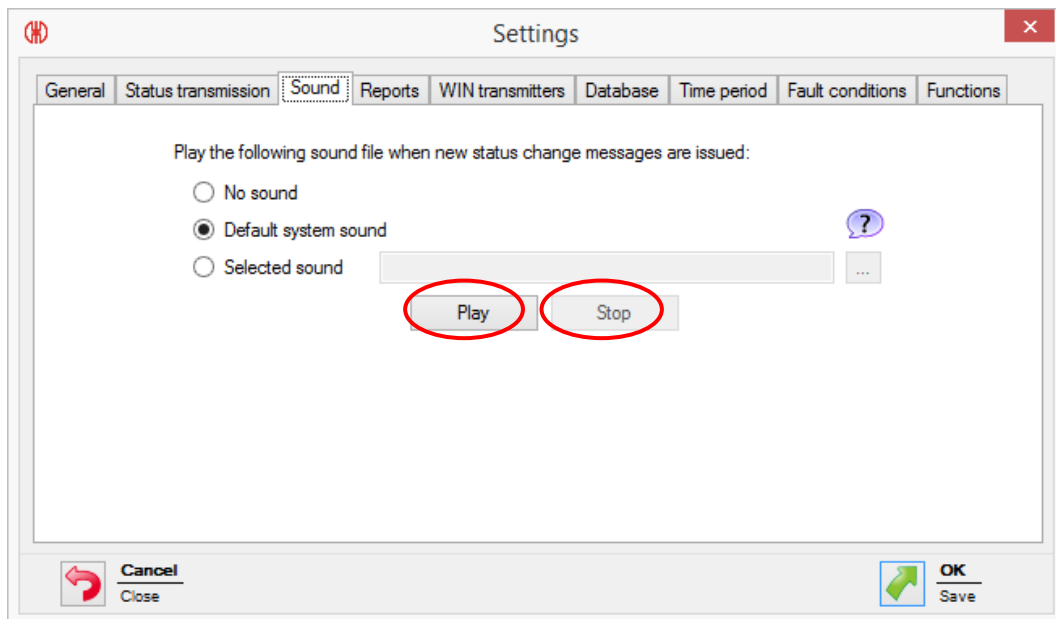


2. Select the sound and click the "Open" button to confirm.



Note: You can select all common audio formats (such as mp3, wav, etc.) as sounds.

-
3. When you have chosen the relevant sound you can click "Play" to listen to it and "Stop" to stop the playback.

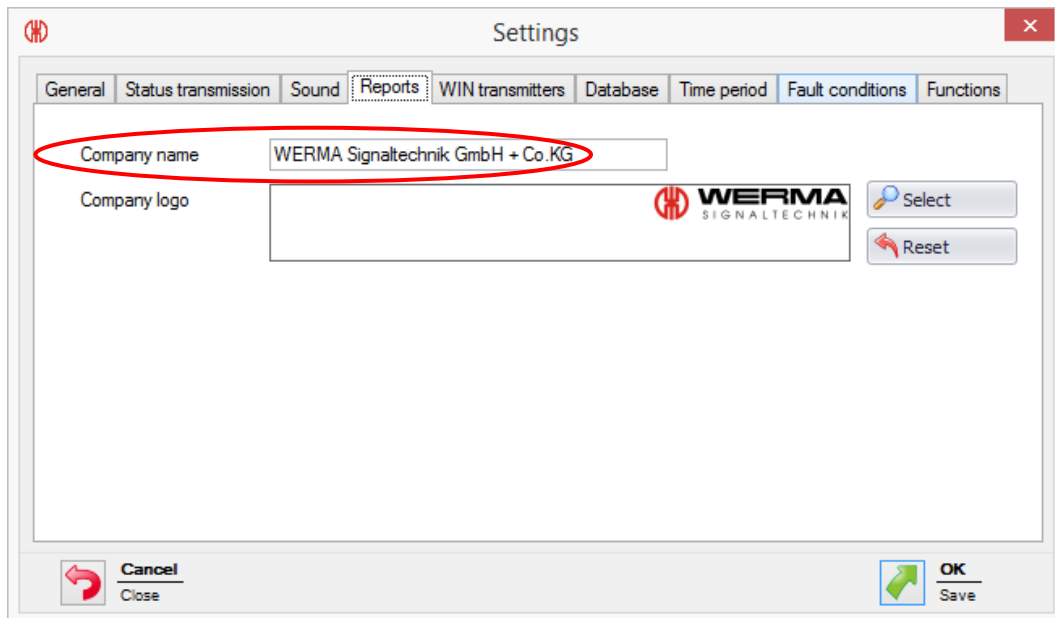


Note: WERMA WIN offers a pre-selection of signaling sounds. To read the description of the tones, click the "Question mark" button.

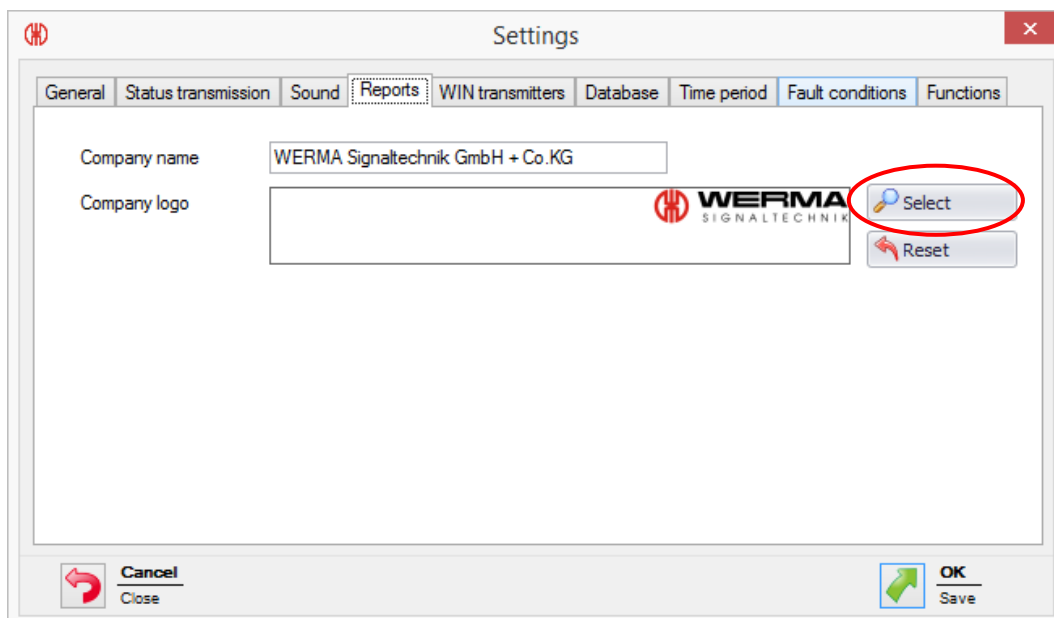
9.4 Reports

You can define a custom header and footer for the Report or Export functions.

1. To define a custom footer, enter the company name in the box.



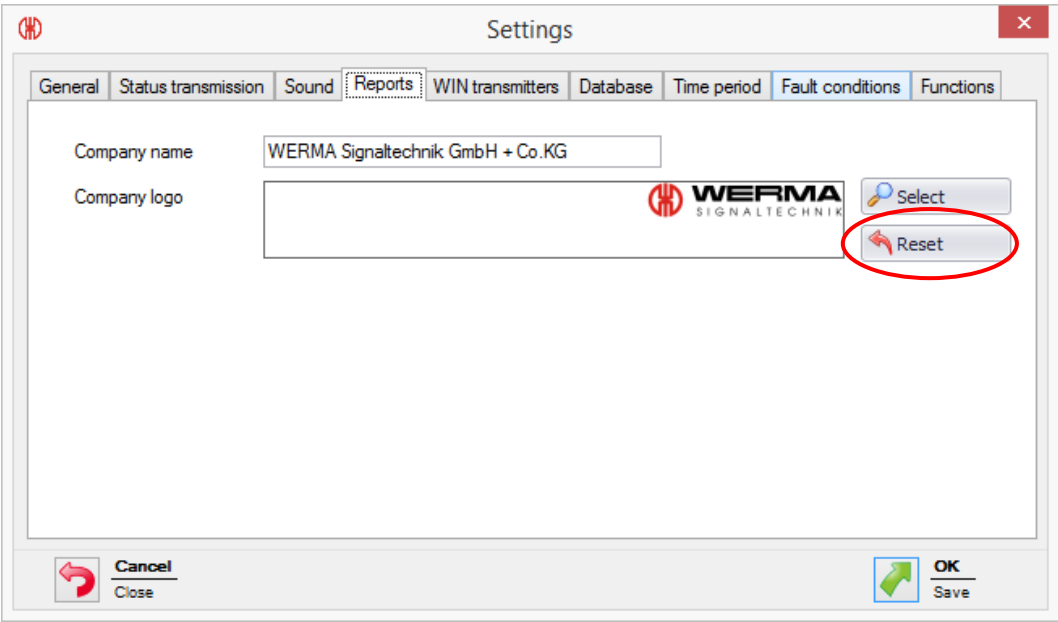
2. To define a custom header with your company logo, click on select and navigate to and select the required image file.



Note: The company logo must fulfill the following requirements:

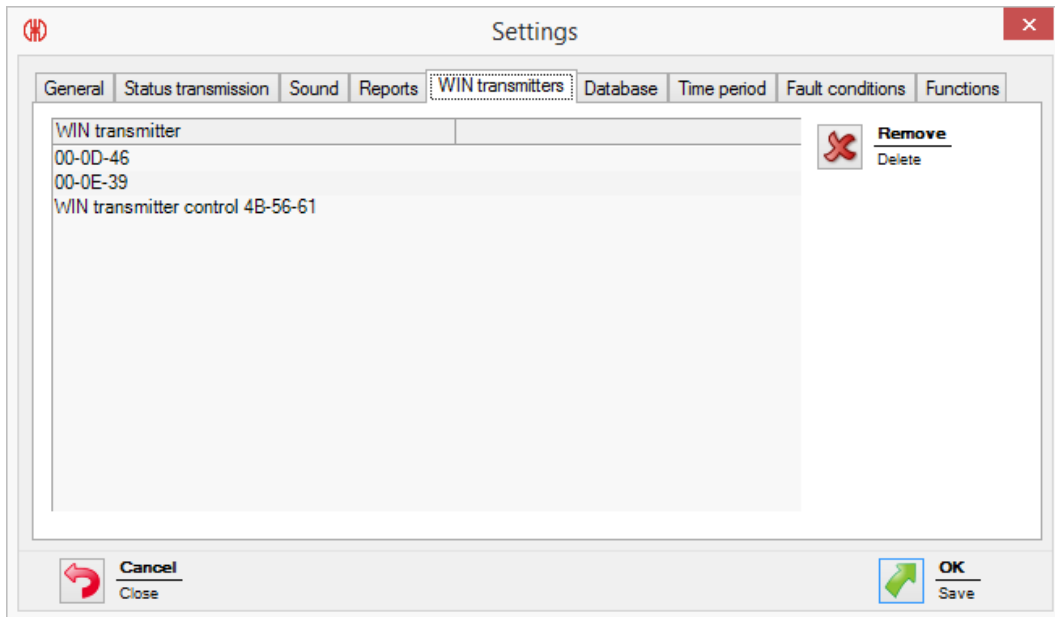
- File size max. 1MB
- Height and width max. 2000 Pixel

3. Clicking Reset will return the Company logo to the default setting



9.5 WIN transmitter

This menu can be used to remove WIN transmitter which are no longer part of your network.

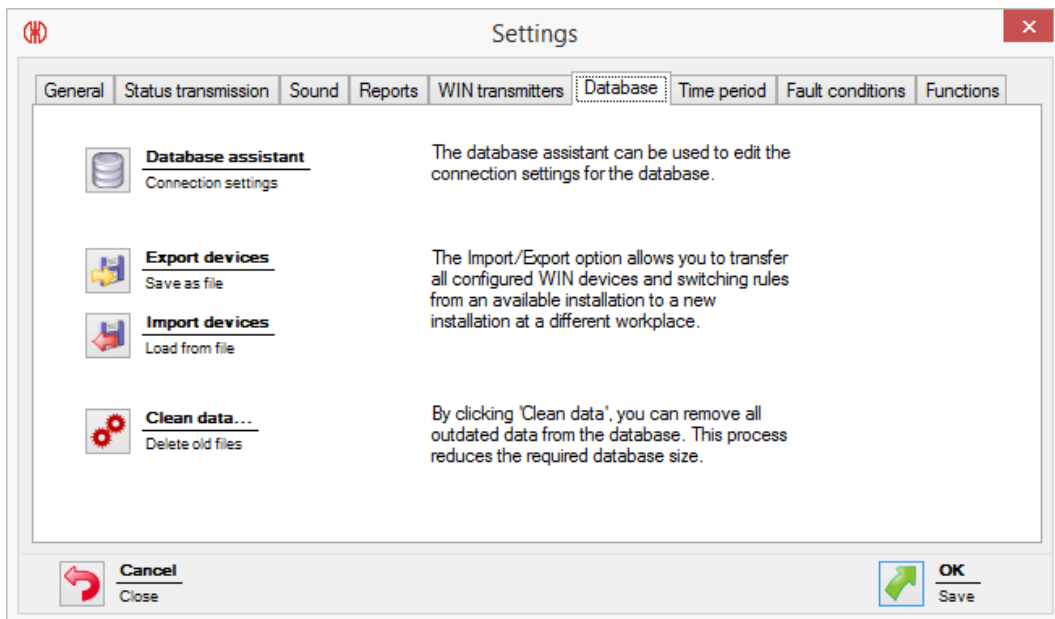


Select the WIN transmitter to be removed and click "Remove". Repeat this process if you want to remove more than one WIN transmitter. To complete the deletion process, click "OK".

Note: By removing a WIN transmitter, all data collected by this WIN transmitter will be deleted.

9.6 Database

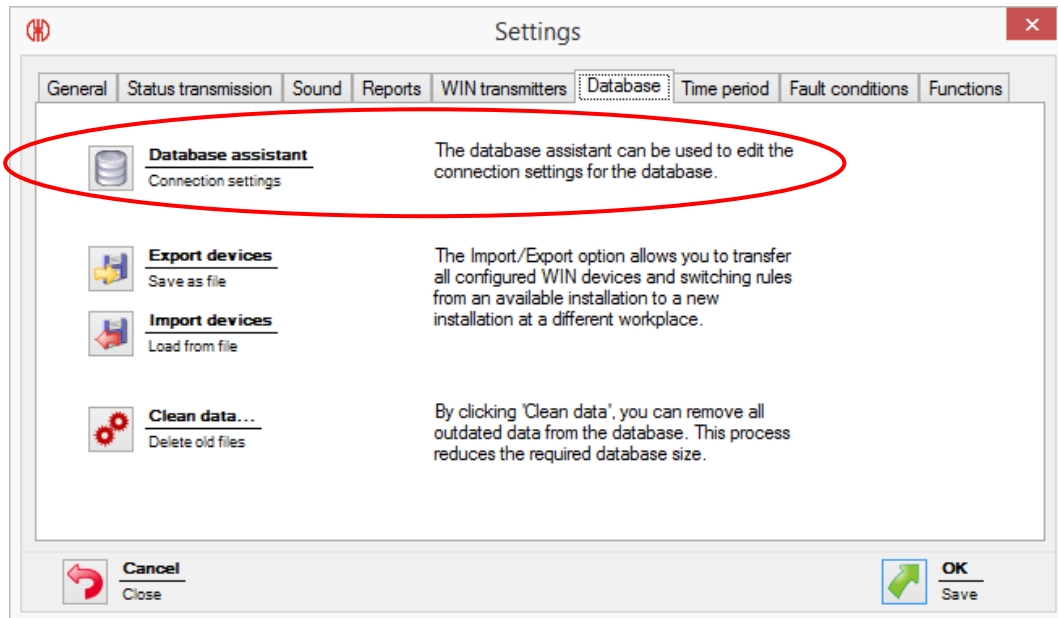
In the Database tab, you can open the database assistant, import and export your WIN device profiles and clean up your data.



9.6.1 Database assistant

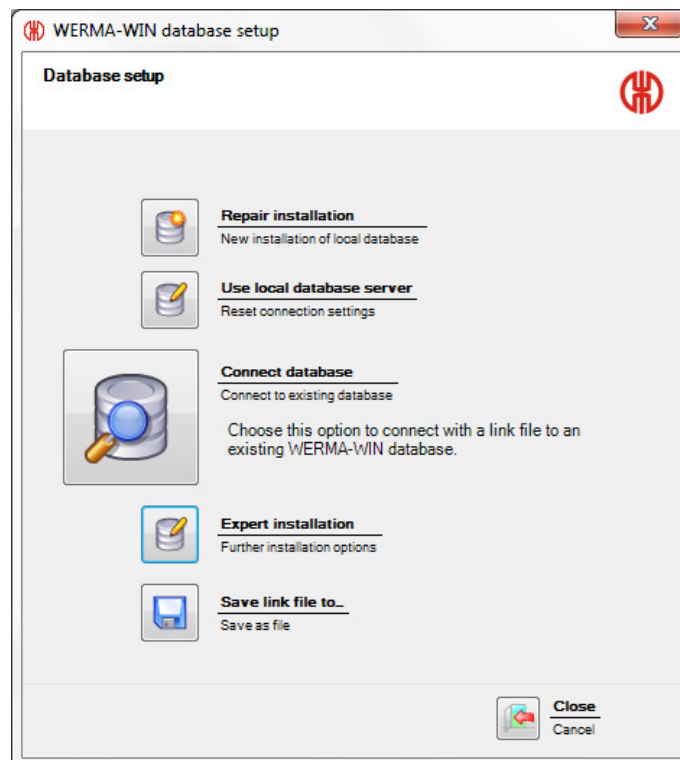
The database assistant can be used to edit the connection settings for the database.

1. By clicking on “Database assistant” the database assistant opens.



Note: Opening the Database assistant closes the WIN software.

2. The following window appears.



3. You can select the following functions for the database:

- Repair installation:

A fresh installation of the local database will be carried out. The existing WIN database will be overwritten and the files will be lost.

- Use local database server:

The existing connection settings will be reset.

- Connect database:

You can connect to an existing WIN database and thus make a multiple access possible. Use this option to connect to a database on a shared drive.

- Expert installation:

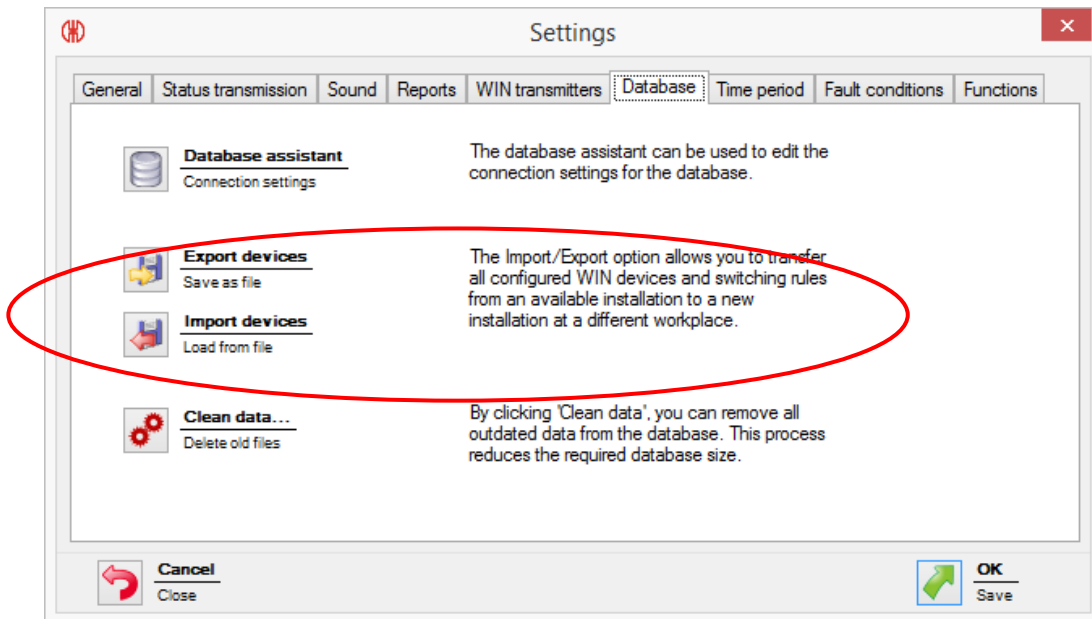
Perform an advanced installation. See chapter 2.3. You also have the ability to edit your saved connection settings.

- Save link file to...:

You can save the link file to a suitable location for use when configuring multiple accesses to the database.

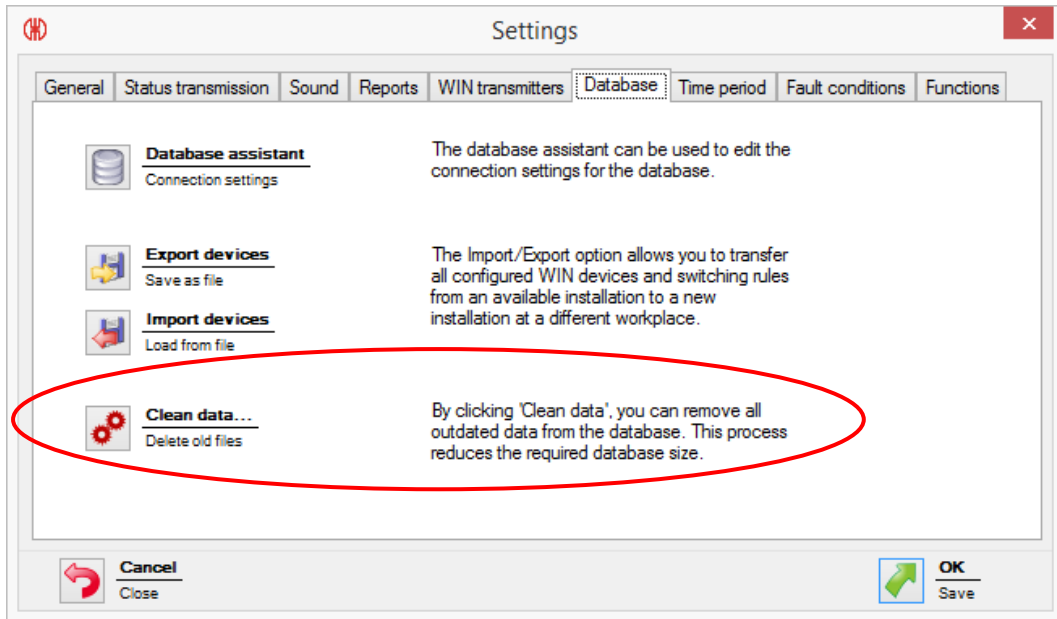
9.6.2 Export devices / Import devices

The "Import/Export" option allows you to transfer all configured WIN receivers, WIN transmitter from an available installation to a new installation at a different location.

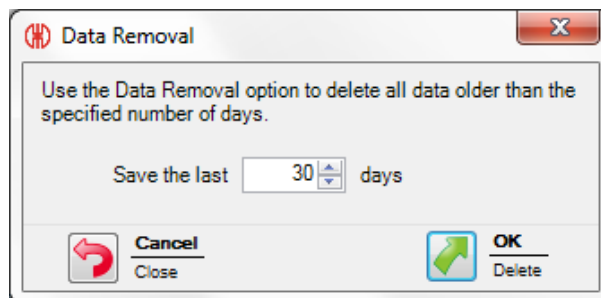


9.6.3 Data removal

Delete old data. Here you can specify the time from which data should be kept.

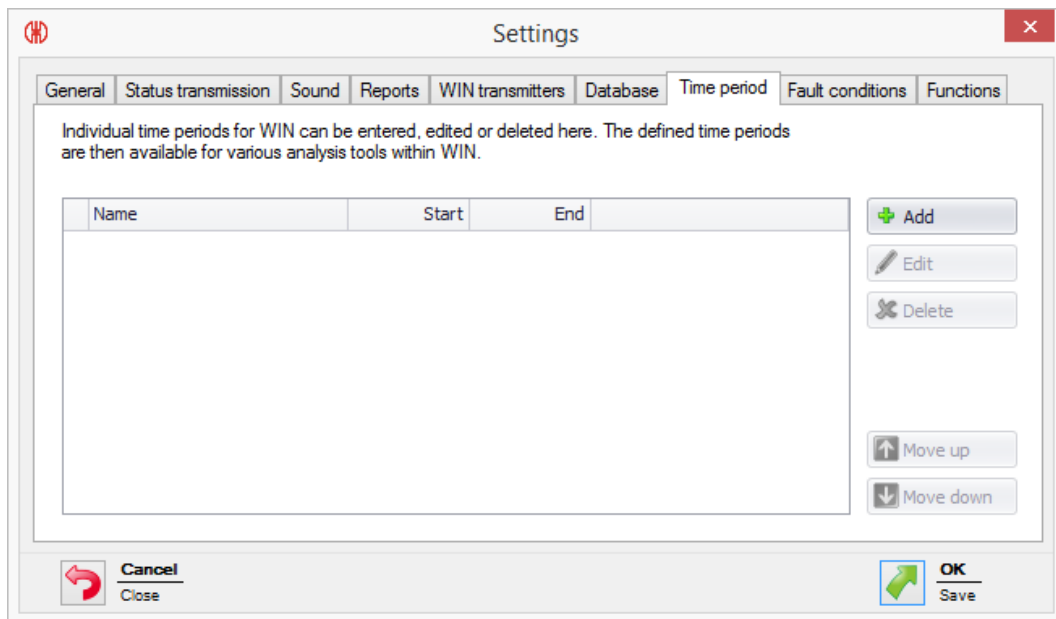


Click the "Clean data..." button and enter the period for which you wish to save the data. To confirm the deletion click "OK".



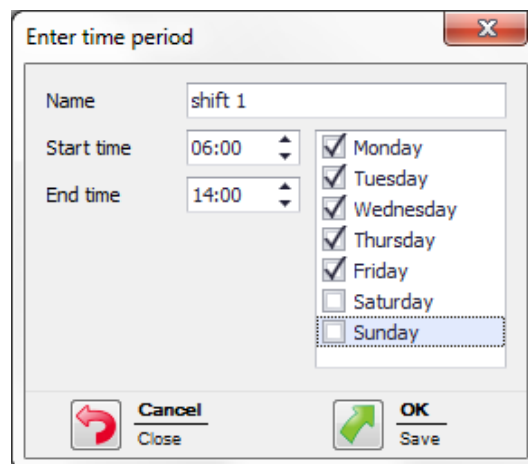
9.7 Time period

Define unique time periods, such as shift times. These can be used within the Productivity module.



To define a time period please proceed as follows:

1. Click on "Add".
2. Enter your desired time period and click "OK" to save your input.

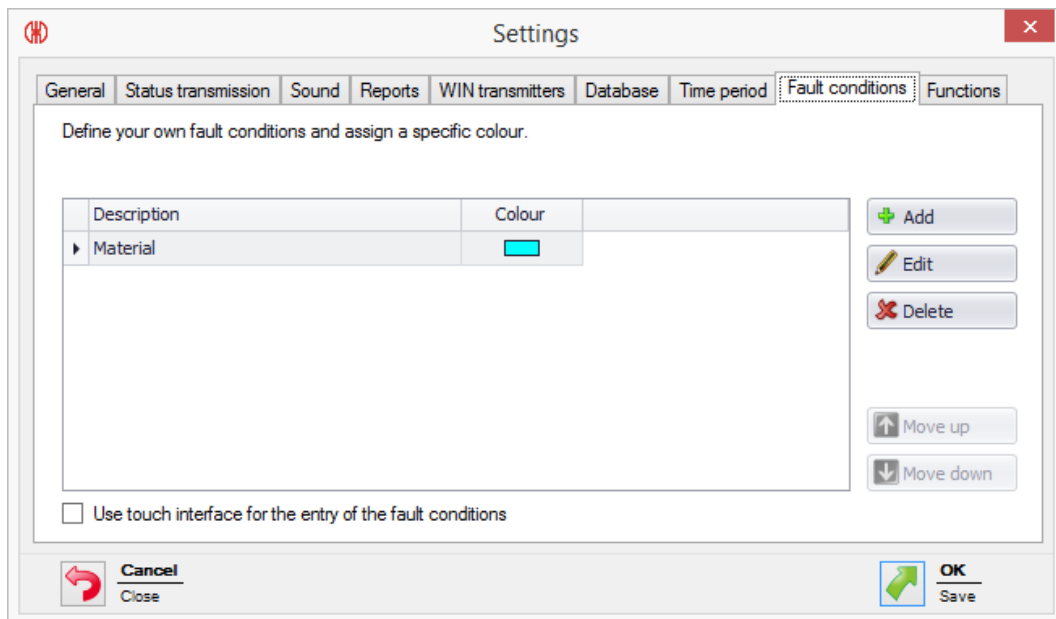


Then you can edit, sort or delete the time period.

Note: Time periods can be selected in the Productivity module in the selection of a period.

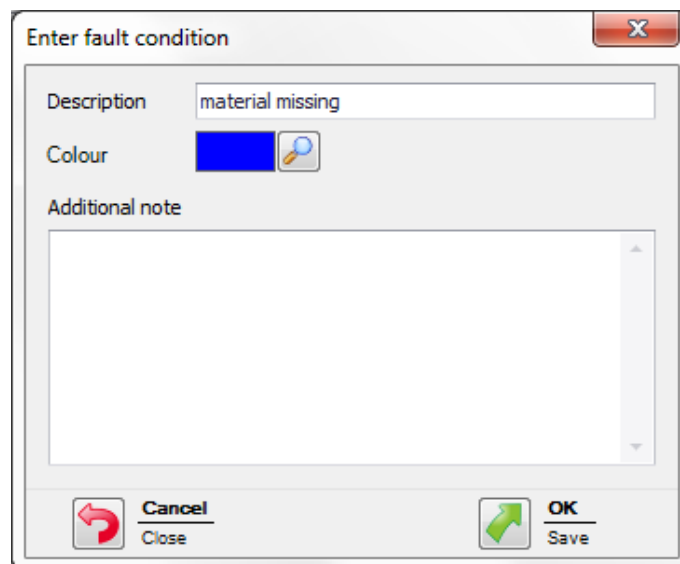
9.8 Fault condition

Define unique fault conditions for errors, such as material missing. If an error occurs you can select a defined fault condition in the runtime module when creating a note.

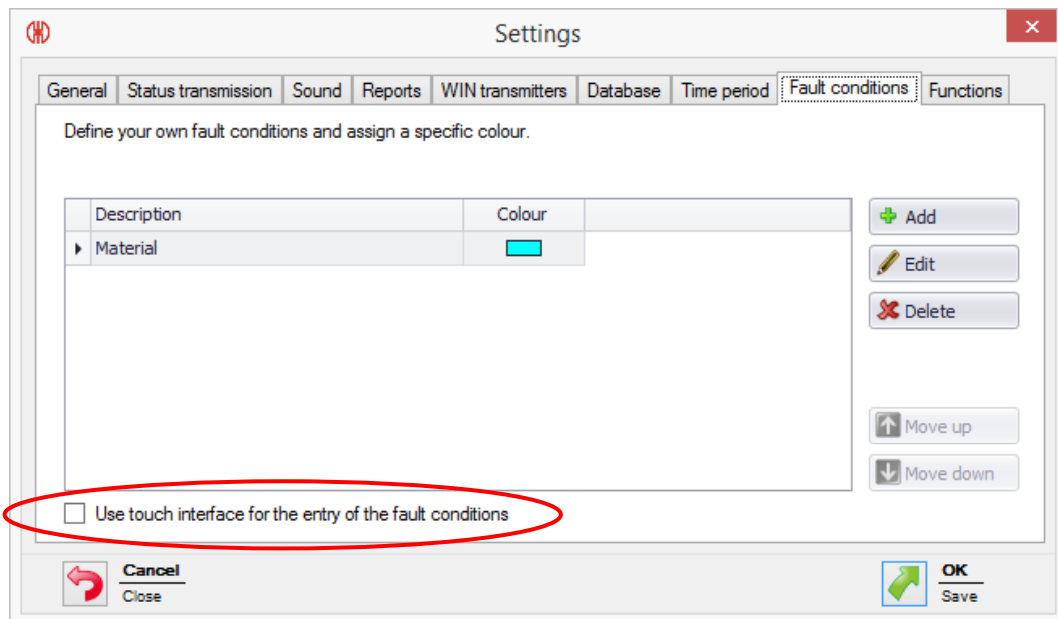


To define a fault condition please proceed as follows:

1. Click on "Add".
2. Enter your desired fault condition with description and colour. Click "OK" to save your input.

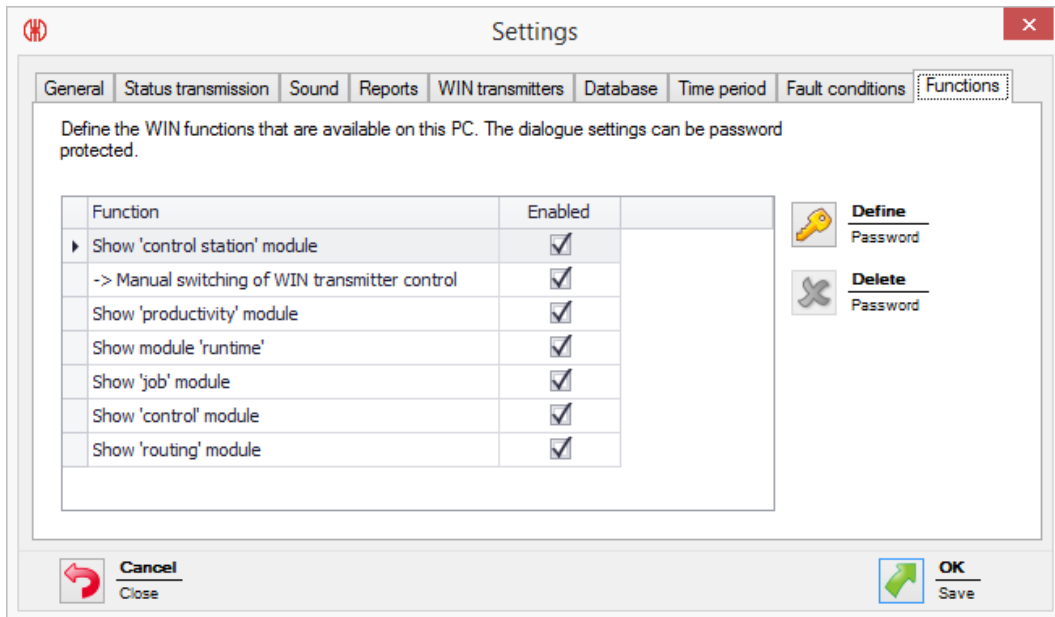


You can edit, sort or delete the fault conditions. By activating "Use touch interface for the entry of fault conditions", you can select easily in the runtime module the desired fault condition (see chapter 7.3.4.1).



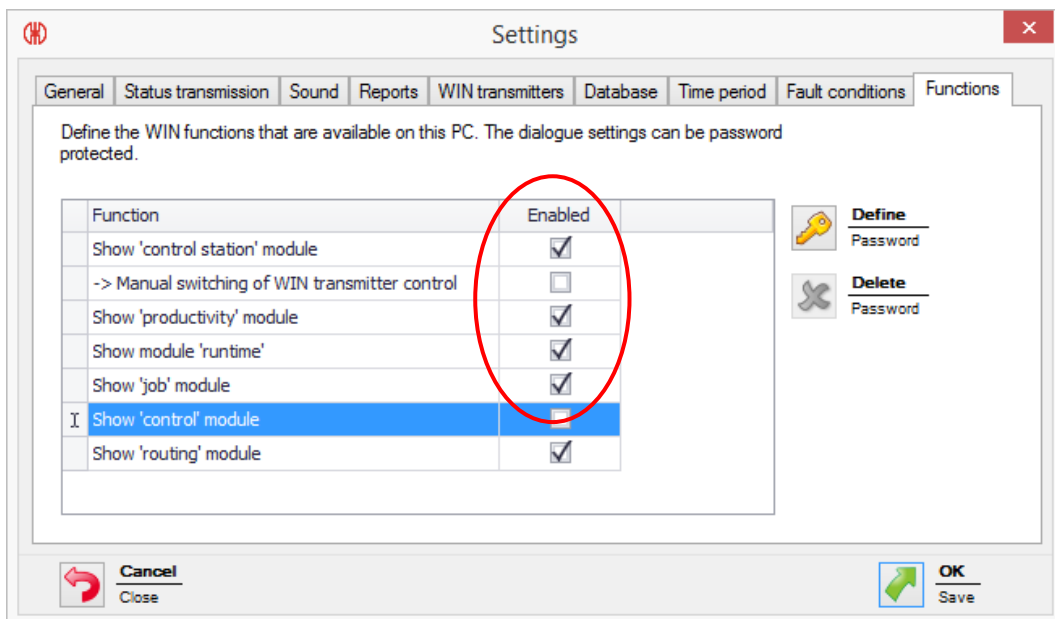
9.9 Functions

Define which function is enabled or disabled.

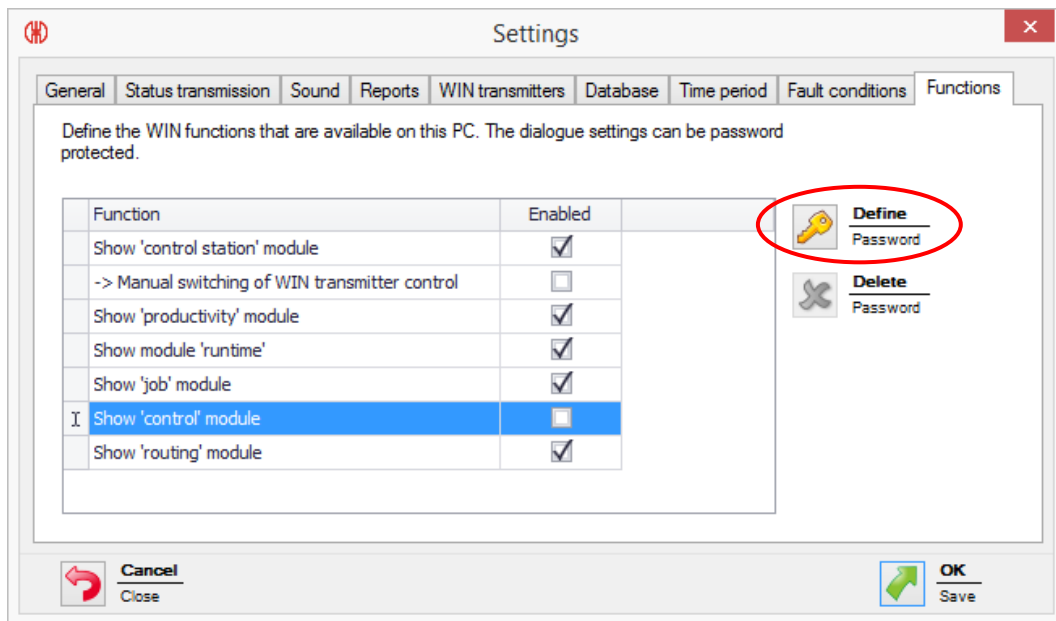


To disable a function, please proceed as follows:

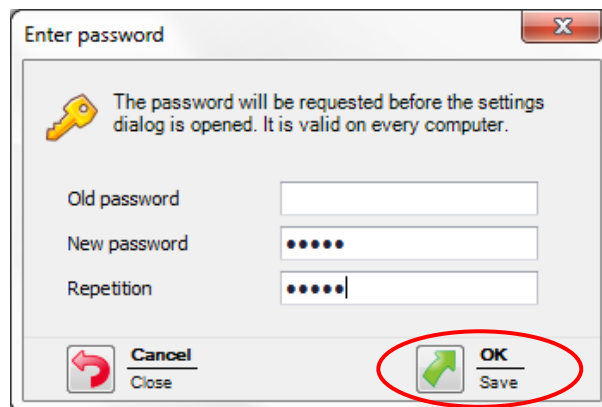
1. Disable the desired function.



2. Click on "Define Password" assign a password to protect the Setting menu.

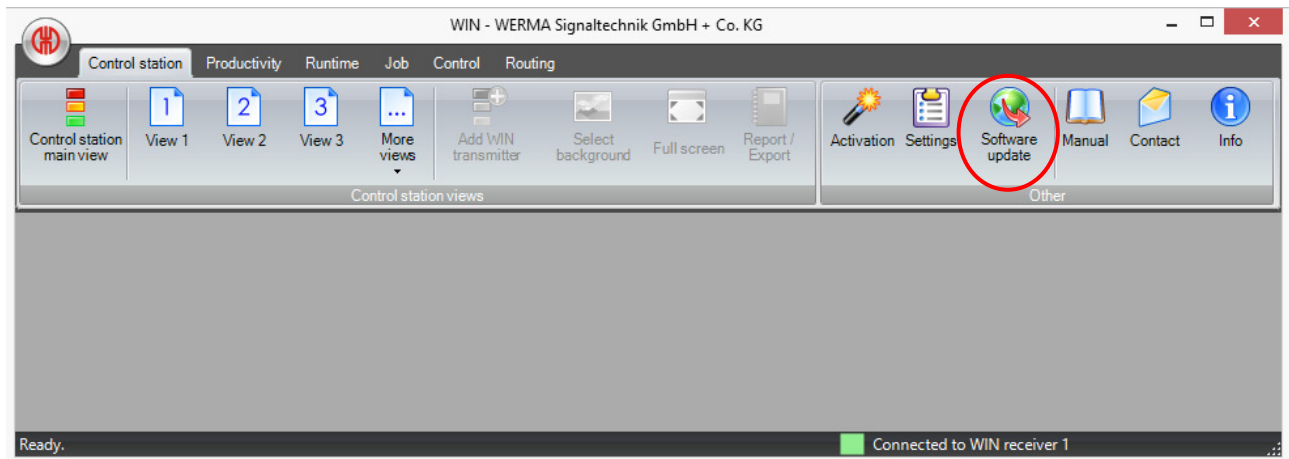


3. Click on "OK" to save your settings.



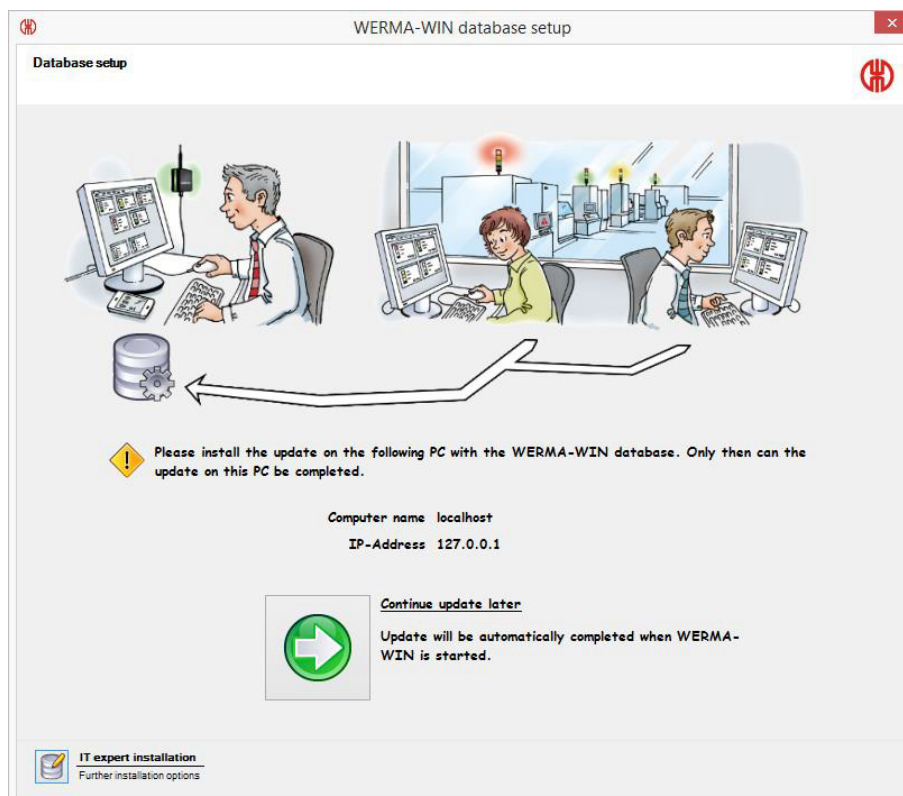
10. Software update

Future software updates which become available can be downloaded via "Software update". To update your software, click the "Software update" menu item in the upper task bar of the user interface.



You will then be automatically connected to the download area of the WERMA website. Please download the database update and install on your PC.

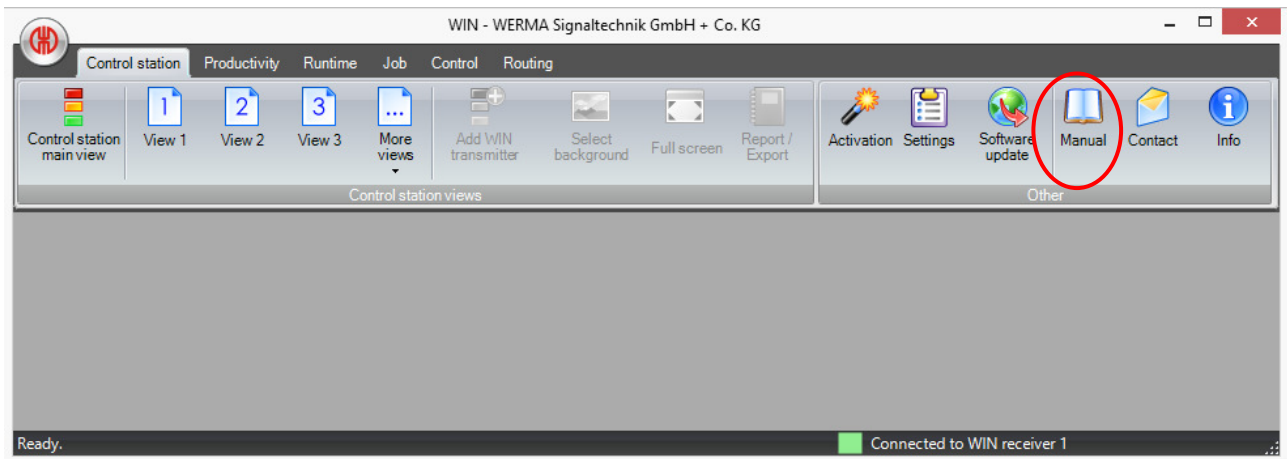
Please note that in the case of multi-client users the database must first be installed on Server PC accessible by all clients. If the database is to be installed first on a client PC the following message will appear:



Note: Please note that in the case of a multi user access to the WIN database the software update has to be installed on all PCs.

11. Manual

Clicking on the "Manual" button or, alternatively, pressing the "F1" button automatically connects the user to the download area of the WERMA homepage which contains the current version in pdf-format. If no internet connection is available the pdf version which was included on the software DVD (not up to date) will be opened.

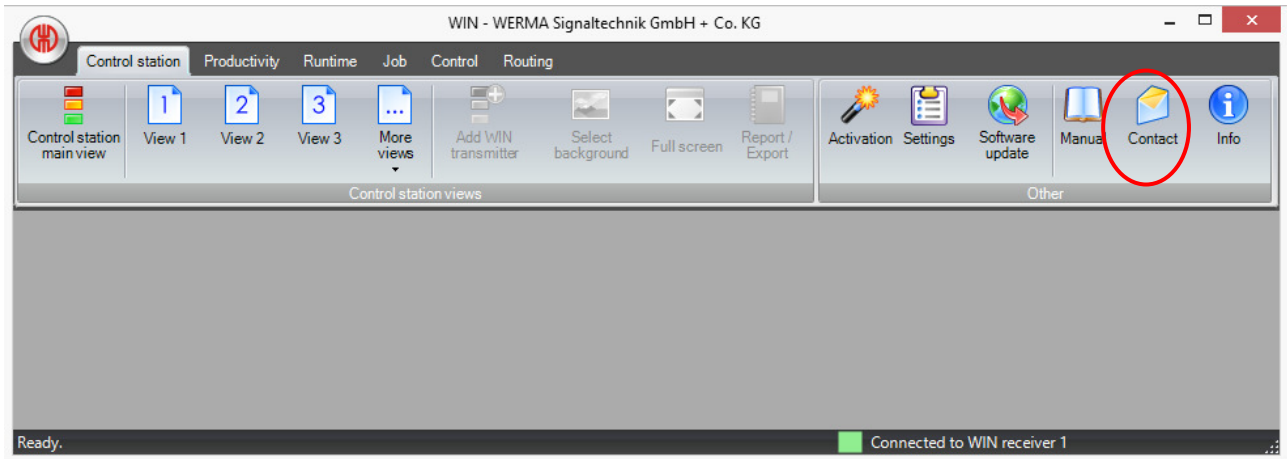


Note: View the manual requires Adobe Acrobat Reader which can be downloaded from www.adobe.com. In the download section you can find the Adobe Reader, which is required for the display of this manual.

12. Contact

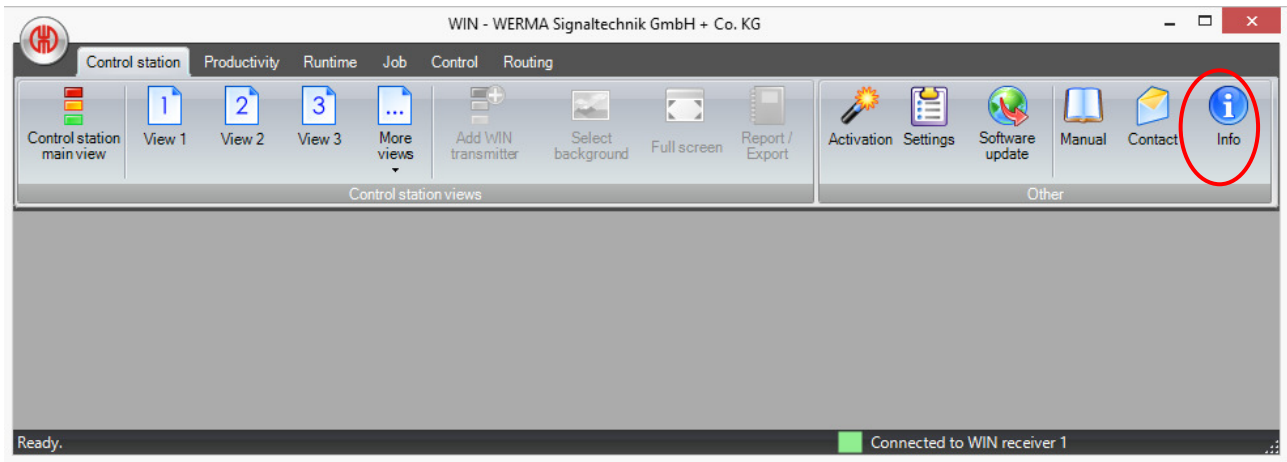
In case of any questions, comments or suggestions concerning the Wireless Information Network (WIN), please do not hesitate to fill in the contact form. We are happy to answer your requests.

By clicking on “Contact” in the menu, you will be directed to our contact form.



13. Information

Information on the current version is available by clicking the "Info" menu item.

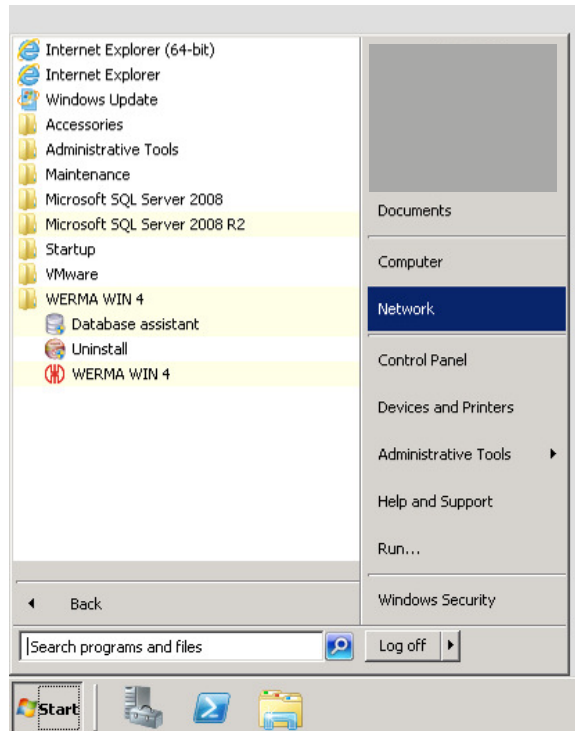


14. Uninstalling the WIN-Software

To remove the WIN software from the system, ensure that the WIN receiver is no longer connected to the USB port of the PC and that the program has been closed.

(The software may otherwise not be completely uninstalled.)

1. To uninstall the software, go to → Programs → WERMA WIN 4 → Uninstall in the start menu



2. Click on "Next" and in the subsequent window, enter the relevant file locations.



3. Click "Finish" in the pop-up window to complete the uninstallation process.

Note: The WIN software has now been removed from your operating system. The database used has however not been deleted.

FAQ – Frequently Asked Questions

Q: Which frequency band does the WIN system use?

A: WIN operates within the frequency band 868.0 – 868.6 MHz. This short-range system has no effect on Wi-Fi or Bluetooth networks.

Q: Can the WIN system be operated on different radio channels?

A: Yes, you may choose between 4 transmission channels. You can operate one WIN receiver per channel. Channel 1 operates on the frequency of 912.997284 MHz, channel 2 on the frequency of 913.997040 MHz, channel 3 on the frequency of, 915.996552 MHz and channel 4 on the frequency of 916.996307 MHz

Q: Why do I need different channels and when do I have to change them?

A: If you use more than one WIN receiver on one channel, this may cause radio transmission problems between the systems. This will generate frequent connection errors. In this case the WIN receivers needs to be operated on different frequencies (see chapter 8.2).

Q: How can I increase the range?

A: Every WIN transmitter possesses a repeater function, by which the range between the WIN receiver and the WIN transmitter can be increased. Every WIN transmitter can thereby establish a connection with the receiver via a maximum of two other WIN transmitters (repeater).

Q: Is the wireless transmission encrypted?

A: WIN is equipped with several protection mechanisms, which prevent the transmissions being intercepted. In addition, confidential data from the WIN system will not transmitted wirelessly.

Q: How often does the WIN transmitter transmit the signal status to the WIN receiver?

A: If the status of the signal tower changes, the WIN transmitter sends this new status to the WIN receiver within 5 seconds. If the signal status does not change, the WIN transmitter transmits the signal status every 15 seconds.

Q: Why does my WIN transmitter not establish a connection to my WIN receiver?

A: Please check the following points:

- Has a USB connection been established to the WIN receiver? → Red or green LED must be illuminated
- Is the WIN transmitter connected to the power supply? → Red or green LED must be illuminated.
- Have you configured your WIN transmitter?
- Is the wireless connection strong enough? (Optimize transmission range see chapter 8.4)
- The WIN receiver has been configured to another channel.

Q: There are often connection errors to the WIN transmitter. What can I do?

A: You can do the following:

- Data will only be logged, whilst the WIN software is working. Make sure that this is the case during the monitoring period.
- Check the connection quality in the Routing Module. If there are red connection lines, you should use more WIN transmitter as repeaters. Simply position a WIN transmitter at the critical location (Optimize transmission range see chapter 8.4).
- Ensure that a permanent 24V supply is connected to terminal 5 of each WIN transmitter.

Q: Why does my computer not recognize the WIN receiver?

A: Please check the following points:

- Ensure that the WIN software has been installed.
- Disconnect the USB connection to the WIN receiver and re-connect it.
- Manually install the driver. (see chapter 3)
- The Windows Service "WERMA WIN 4 Connector Service" has not started.

Q: Why am I not able to install the WIN software?

A: To install the software you need administration rights for your PC. Please contact your IT-administrator.

Q: How many WIN transmitters can be monitored by one WIN receiver?

A: Up to 50 WIN transmitters can be monitored.

Q: What happens, if I connect more than 50 WIN transmitters?

A: This may cause connection errors between the WIN transmitters.

Q: How many elements can be monitored per WIN transmitter?

A: You can monitor up to 4 elements per WIN transmitter. (or with the help of the blinking recognition up to 8 statuses).

Q: How many elements can be monitored per WIN transmitter performance?

A: You can monitor up to 3 elements per WIN transmitter performance (or with the help of the blinking recognition up to 6 statuses). One tier of the WIN transmitter performance is necessary for the counter input. If you use the additional the job input on one tier, you can only monitor up to 2 elements or 4 statuses.

Q: How many cycles per minute can the WIN software count/record?

A: The WIN software can monitor up to 600 cycles per minute. It is important that the count output from the machine is set up correctly (see 7.1.3.2).

Q: Why is the red LED on the WIN receiver illuminated?

A: The WIN receiver has no connection to a WIN transmitter, but is connected to a PC and is receiving power.

Q: Why is the red LED on the WIN transmitter illuminated?

A: The WIN transmitter is not connected to a WIN receiver.

Q: What is the maximum permissible USB cable length between the WIN receiver and the PC?

A: The cable length should not exceed 3 meters. The cable length can be increased via USB hubs.

Q: Is there an opportunity to work with the acquired data?

A: Yes, all data is stored in a Microsoft SQL Server database (see chapter 2). You can read out the data (Excel, Access, ...), but cannot change the database (may cause data loss).

Q: What steps need to be taken when the clocks are changed?

A: Changing the time can lead to a data loss. If the time is repeatedly synchronized within your IT system (e.g. automatically via the server), we recommend that the synchronization takes place outside the monitoring period (e.g. when your machines are not in use)

Q: Can a WIN transmitter performance be configured so that it has the same configuration as a WIN transmitter?

A: No, a WIN transmitter performance always needs one tier allocated to the counter input.

Q: What must be considered when installing WERMA WIN?

A: Please note the safety instructions and system requirements.

Q: How fast can a WIN transmitter performance count on the tier with the counter input?

A: The count impulse can be up to 10 Hz. Please note the conditions in chapter 1.4.4 and 7.1.3.2.

Q: Can the blink recognition be set for all tiers of the WIN transmitter performance?

A: No, the blink recognition cannot be selected for the tier with a counter input and not for the tier with job input.

Q: It is possible to read in data from an ERP system?

A: Yes, you can create a CSV file with an appropriate format (see chapter 7.4.2.2). These can then be imported into the WIN software.

Q: Are there any keyboard short-cut functions in the software?

A: Yes, these are:

- „F1“ → opens the manual (see chapter 11)
- „F10“ → Job quick start (see chapter 7.4.3.2)
- „F11“ → Opens the Runtime Module (see chapter 7.3.2)

Q: What has to be observed when saving data to the WIN database?

A: We recommend the following:

- The PC and receiver to which it is connected must be on 24/7
- The PC where the database is installed must be on 24/7
- WIN WERMA 4 Server service and WERMA WIN connector service must be running

Q: What is the “WERMA WIN connector service” needed for?

A: The service runs in the background as soon as the PC (both client and server) is turned on. Collected WIN data through the WIN receiver will be transferred to the “WERMA WIN 4 Server service” without the WIN software running or a user being logged on.

Q: What is the “WERMA WIN 4 Server service” needed for?

A: The service runs in the background as soon as the PC or Server hosting the database is turned on. The WIN data is written to the WIN database without the WIN software running or a user being logged on.

Q: Can the Energy save or hibernate modes on a PC be switched by WIN?

A: We recommend deactivation of the energy save and hibernate modes as follows:

- PC with the WIN database
- PC with the WERMA WIN 4 Server service
- PC with the WIN receiver (USB) connected to it.

WIN transmitter	Mac (transmitter)	Name
<i>Example</i>	<i>00-45-86</i>	<i>CNC-Machine 1</i>
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