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Air Tube Transport Systems

Product Documentation

I08 R-Tube Installation

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1. Abstract

1.1. Purpose of this Document

This document describes how to install R-Tube 3 and how to adjust R-Tube settings.

1.2. History

Date	Version	Revision Author(s)	Revision Notes
27.07.2016	0.01	Gh	Initial Version
04.10.2016	1.01	Gh	Release

1.3. Document References

Ref.	Document Name	Version	
[1]	Hörtig-E38 „H61F USB flash drive on FCC card”		
[2]	Hörtig-U08 “R-Tube User Manual”	V1.03	

1.4. Abbreviation

CC	Central Control Unit
IP	Internet Protocol, IP-Address
TCP/IP	Transmission Control Protocol / Internet Protocol
DCS	Distributed Control System
RTC	Real Time Clock
TAN	Transaction- or Transport Number
SMTP	Simple Mail Transfer Protocol
LIMS	Laboratory Information Management System

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2. Before you start

Thank you for choosing R-Tube for Windows. We continuously extend and Improve this software.
R-Tube3 is designed to monitor HÖRTIG rohrpost systems "H61F". The software is intended to run on a dedicated computer for tube-system use only.
Do not run any health-, production-, safety- or security- relevant software on same PC with R-Tube!
There will be no warranty for the function of this software nor for the function of R-Tube!
Even though we are working hard to provide perfect working software, HÖRTIG rohrpost is not liable for any damages or injuries.
HÖRTIG rohrpost warrants the physical media upon which the Software is distributed (CD, DVD, etc.) but not the program recorded on the physical media to be free of defects in materials and workmanship for a period of 30 (thirty) days from the date of purchase as documented by the purchase receipt. Media found to be faulty within this thirty-day period will be replaced by HÖRTIG rohrpost free of charge unless the faults are due to willful damage, negligence or improper use. Such replacement will be your only and exclusive remedy in the event of fault or defect. The program itself is provided "as is" without any warranty of any kind, express or implied, including but not restricted to warranties of merchantability and fitness for a specific purpose.
Under no circumstances will HÖRTIG rohrpost, its officers, agents, employees, affiliates or associates be liable for any consequential, incidental, indirect or special damages whatsoever (including but not restricted to damages for loss of business income or profits, interruption of business, financial losses, loss of data or information etc.), deriving from use of, improper use of or inability to use the Software or any of the material, documentation or information included or distributed with the Software, regardless of the nature and foundation of the individual claim or claims. The liability of HÖRTIG rohrpost will under all circumstances be limited to the purchase price of the Software. All other liabilities and remedies express or implied, including but not restricted to any express or implied warranties of merchantability and fitness for a specific purpose, are expressly excluded. These limitations may not apply in jurisdictions that do not permit the exclusion or limitation of implied warranties.

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3. Hard- and Software Requirements

3.1. Hardware

3.1.1. R-Tube Host

Minimum Specification:
Processor: Pentium 2Ghz
RAM: 8 Gbyte
Harddisk: 500 GB
Mouse: Wheel-Mouse
Keyboard: Standard
Graphics-Card: 256 MB, OpenGL
Network: 100 MBit

3.1.2. R-Tube Client

Minimum Specification:
Processor: Pentium 2Ghz
RAM: 2 Gbyte
Harddisk: 80 GB
Mouse: Wheel-Mouse
Keyboard: Standard
Graphics-Card: 512 MB, OpenGL
Network: 100 Mbit

Note:
The 3D-Graphics of R-Tube will use OpenGL. Some onboard graphic cards have problems to display everything correctly. In case of using the graphics feature we strongly recommend to use a dedicated, OpenGL-certified graphics card .

3.2. Other 3rd-Party Software

Operating System:
Windows 2000, Windows XP, Windows 7, Windows 10
Remote maintenance:
TeamViewer (www.teamviewer.com). Host installation is for free.
Security:
We strongly recommend to install a malware-protection-software.
Others:
PDF-Reader (e.g. Acrobat Reader)

Note:
R-Tube is designed for working on a dedicated PC. In case of remote maintenance, usage of other programs is not possible.
There is NO WARRANTY if there are troubles, while other programs are running!

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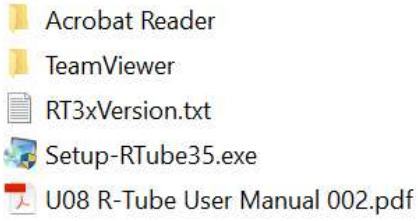
4. Installation

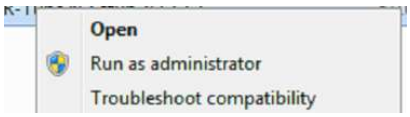
4.1. Host or Client?

There are two installation-types: Host and Client.
The difference between host and client is as follows:
A host connects to all CCs of the DCS. The incoming data is stored and processed on the local machine. All files to monitor the system are created by (and on) the host computer. All R-Tube applications use these files to display transports, graphics, etc..
Therefore a R-Tube host needs a more powerful hardware (see 3.1.1).
A client does not connect to any CC. It uses a file-share on the database-directory of the host computer to display all data.
Both types use the same installation-file. To select whether R-Tube becomes a host or a client is decided by the entries in the Data-Channels. Only the host has entries in the channel-list. (See 5.3.4.)

4.2. Installation of Software

To install R-Tube successfully you have to be logged in with administrator rights.
For installing R-Tube please run “Setup-RTube3x.exe” (x = minor release e.g. “5”) as Administrator by doing a right-click on it and selecting the option “Run as administrator.





R-Tube V3.x Installation will start and a splash-screen comes up. It could happen that you have to give permission to change system before.

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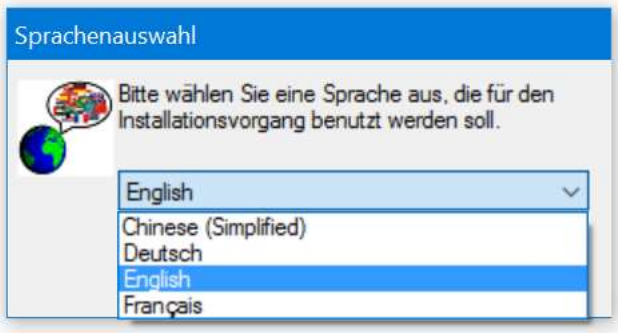
After a few seconds the language-selection pops up. Choose your language and follow the instructions. Usually default settings can be used. R-Tube V3.x Installation provides the following languages: English, German, French and Chinese.



Click “Next” to continue.

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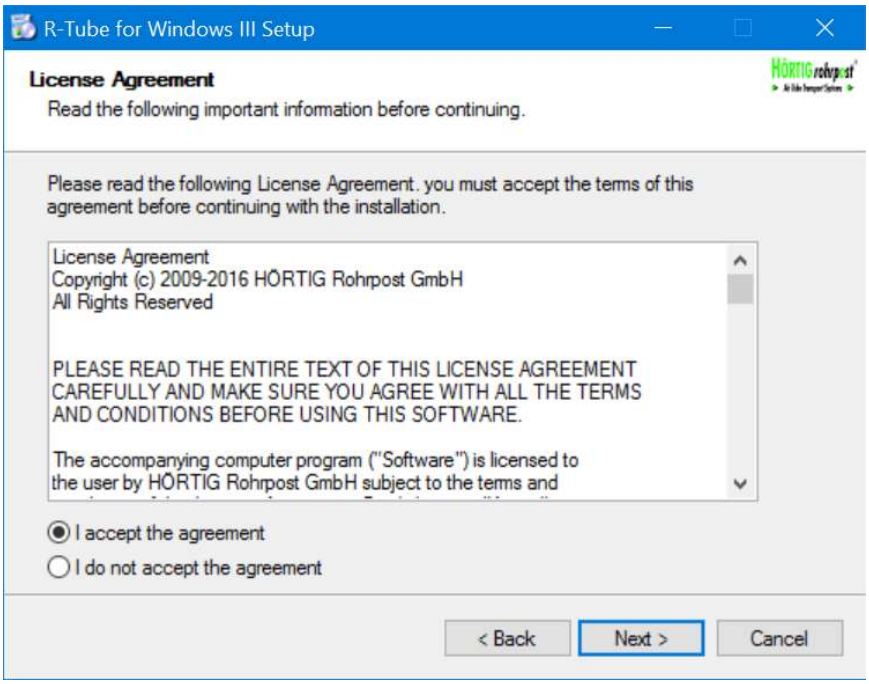
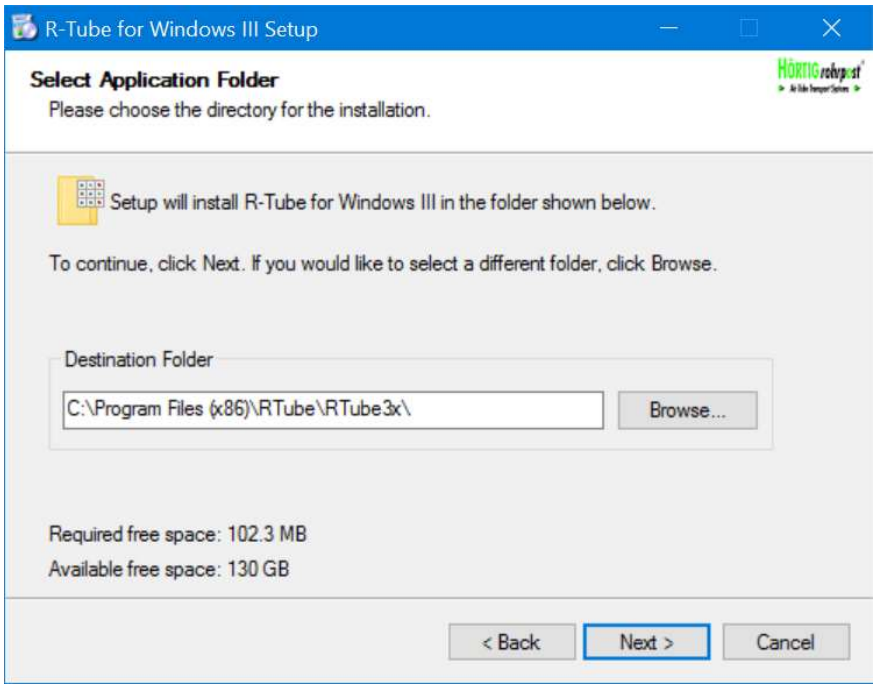
For installing R-Tube you have to accept the license agreement. Please read the license agreement carefully. Then click “Next” to continue:



Select Application Folder: It is recommended to use the destination folder suggested by the installer. Change this folder only upon the advice of a support technician. Then click “Next” to continue.



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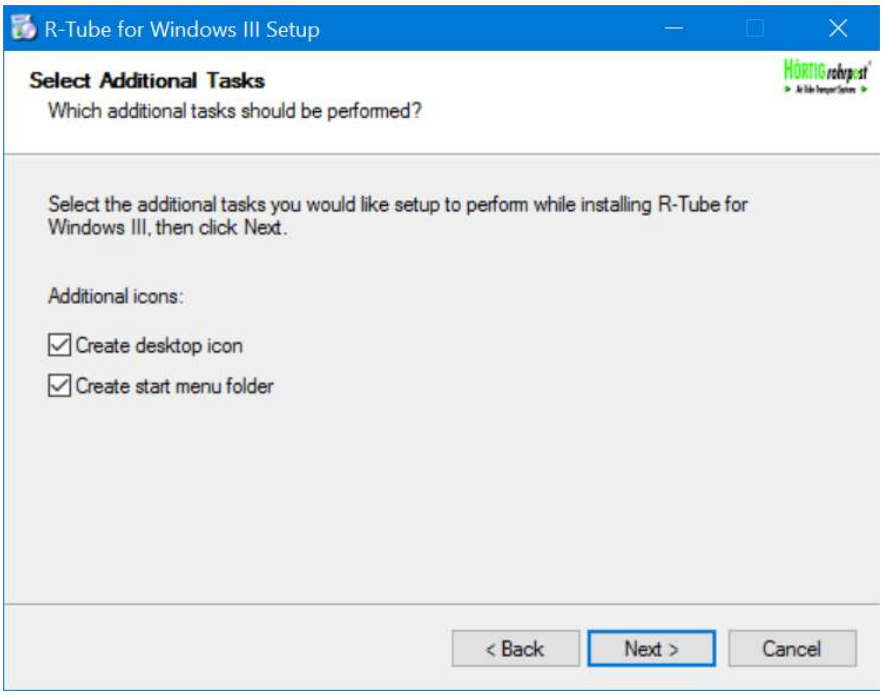
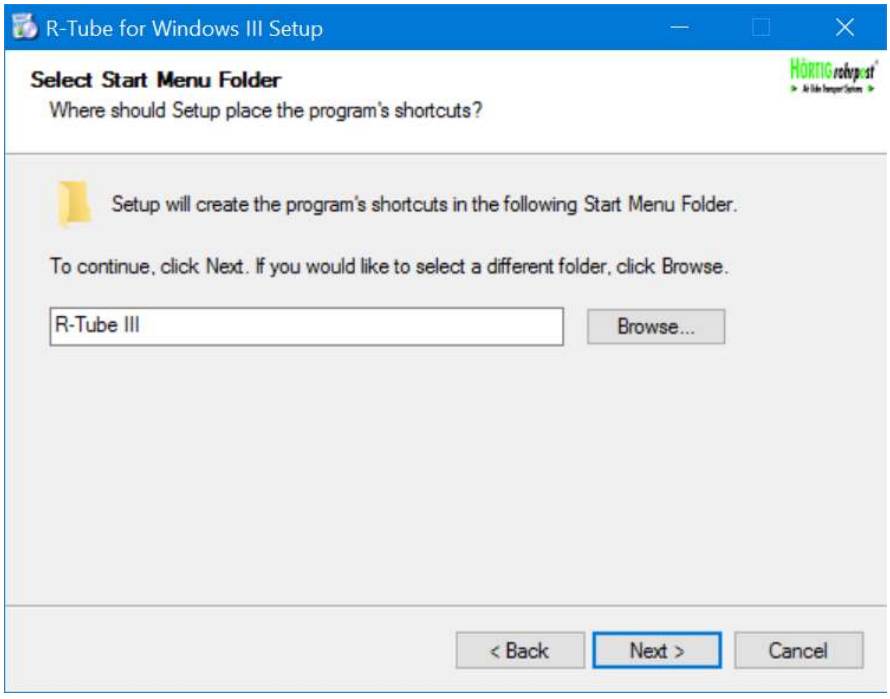
Select additional Tasks and click “Next” to continue.



Select Start Menu Folder and click “Next” to continue.



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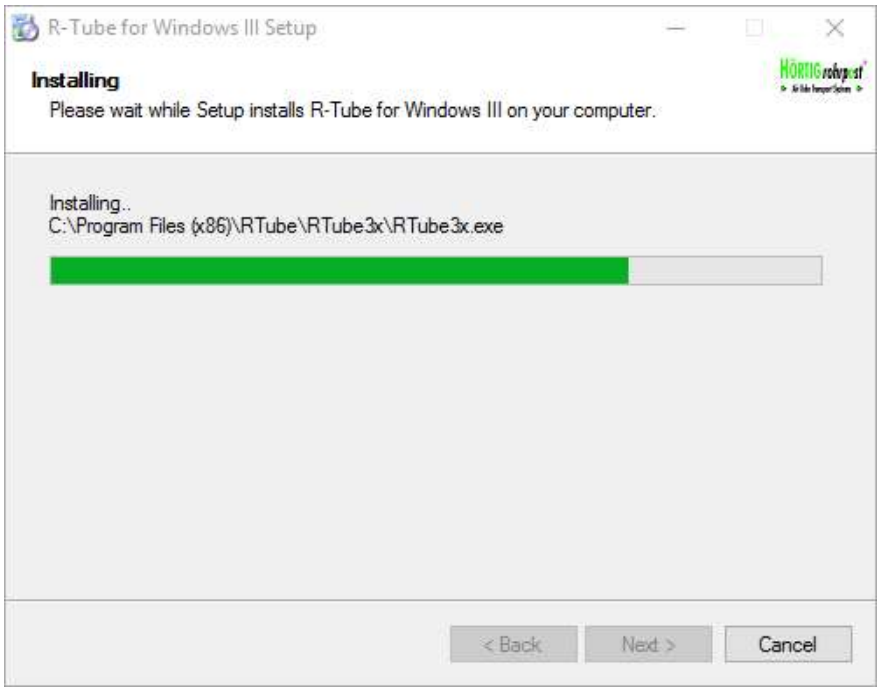
Now Installation will start…



After installation is completed. Click “Finish” to leave installer.

The basic installation of R-Tube III for Windows is now complete.

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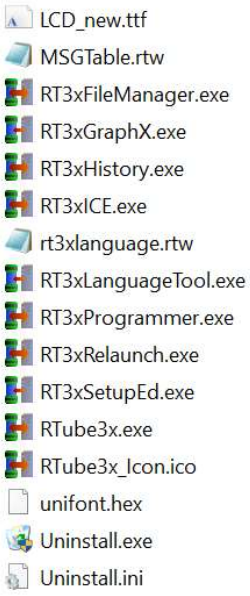
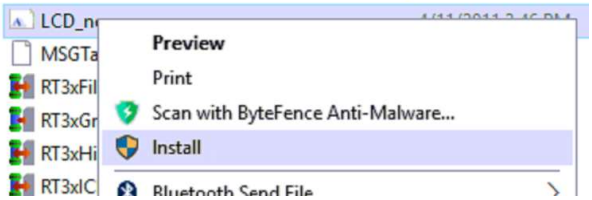
4.3. Installation of Fonts

R-Tube uses a special font to display the LCD-characters on the programmer.
The font-file is copied to installation folder:
C:\Program Files (x86)\RTube\RTube3x\LCD_new.ttf



Do a right-click on “LCD_new.ttf” and select “Install” from the popup-menu. Then follow the instructions.



Note:

- If “LCD_new.ttf” is not installed, display of programmer will use a default-font. It could happen that some characters are not available or do not match.
- If “LCD_new.ttf” is not installed correctly it could happen that the programmer-display stays blank. Try to reinstall font and reboot computer.

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5. Starting R-Tube for the first Time / Settings and Options

This is a step-by-step guide how to customize R-Tube.

5.1. Start Application

Double-Click on the R-Tube Icon to start Application:

RTube3x_Icon.ico

A splash-screen will appear…

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5.2. Select Language

When starting R-Tube for the first time you have to select a language. Default language is English. The language-setting can be changed later if required.

If there is no translation available R-Tube will use the English text.
The following Languages are available:

- English
- German
- French

Languages with incomplete translation

- Chinese
- Spanish
- Portuguese
- Thai
- Russia

Note: If your language is not available, please contact your Hörtig rohrpost agent.

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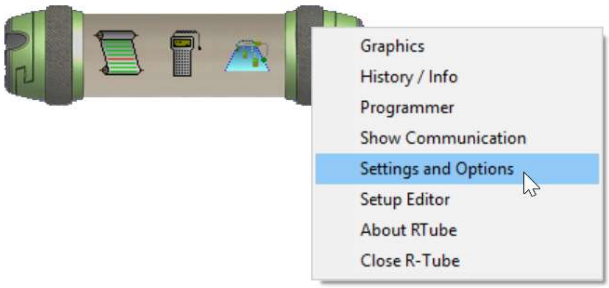
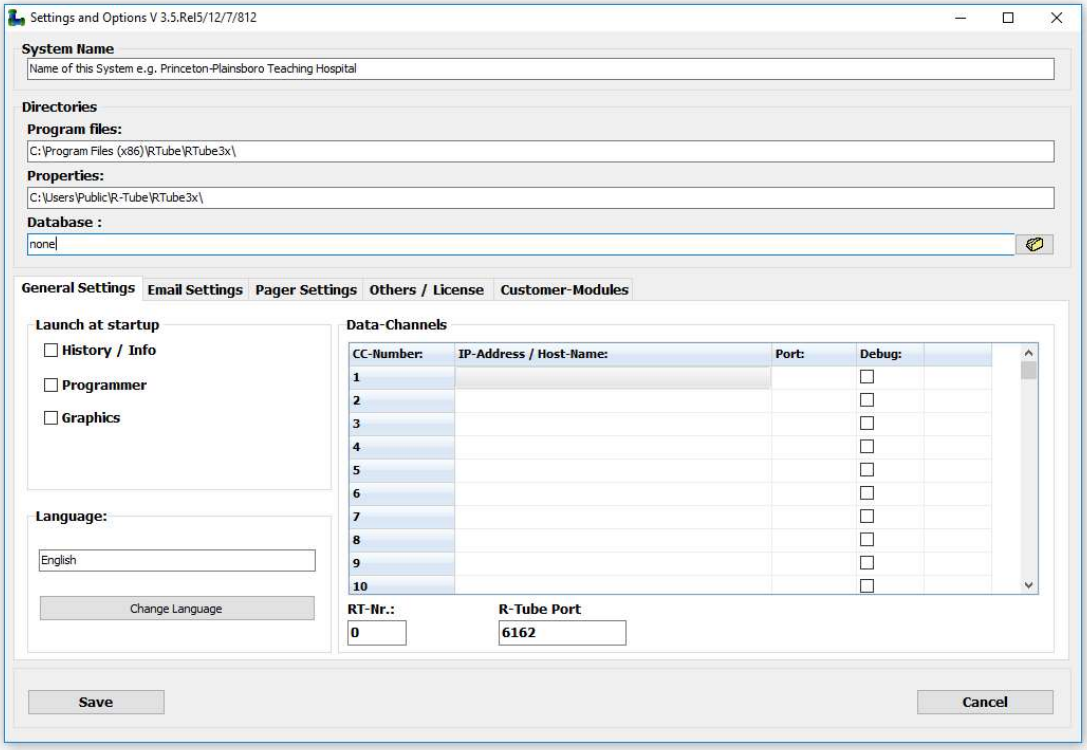
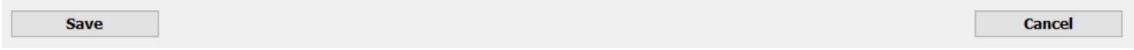
5.3. Settings and Options

To customize R-Tube to the computer and DCS open “Settings and Options”.
If R-Tube is started for the first time “Settings and Options will open automatically. All settings can be changed later by opening “Settings and Options” from the popup-menu of the main application. (See [2] 3.2.1. and 3.2.7. Page 7 and 11)





Use “Save” to to save settings and leave the window. Click on “Cancel” to leave the window without changing settings.



Note: If Database-directory is not set yet, R-Tube will terminate.

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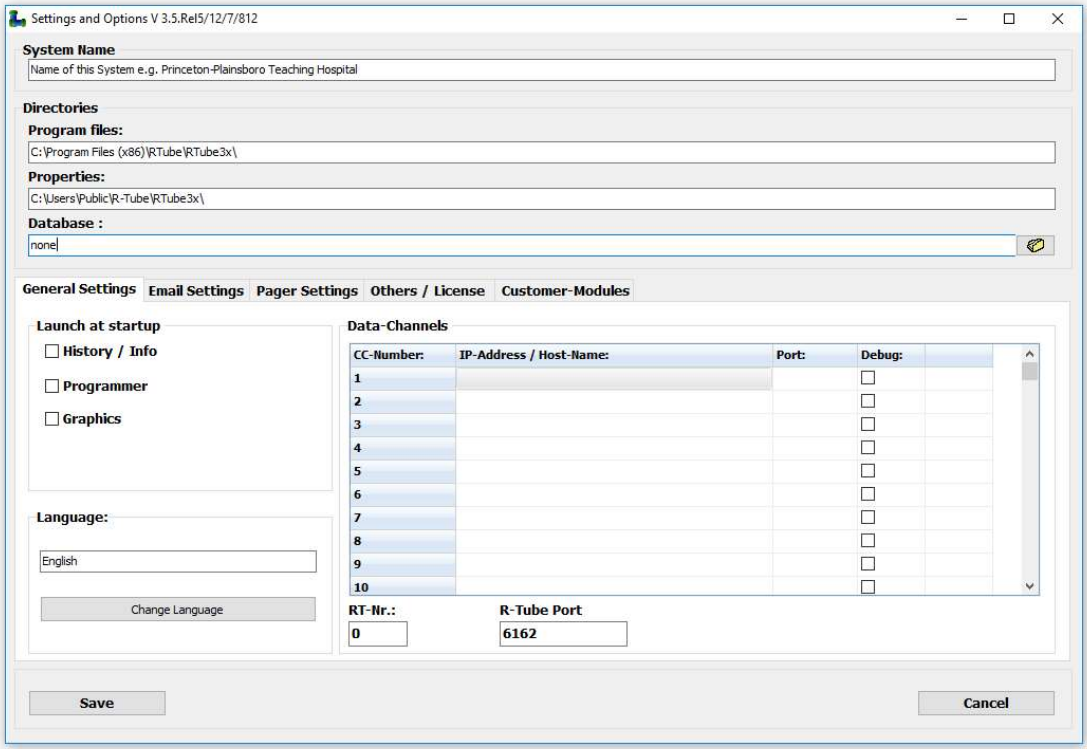
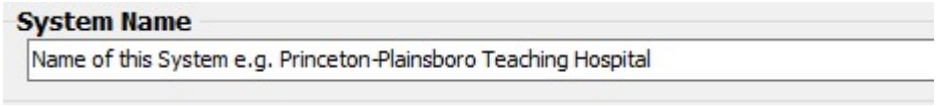
5.4. Adjust General Settings

This chapter shows the most important settings which have to be adjusted, in order to run R-Tube in a proper way. After some changes a restart of entire R-Tube or of some parts of it may be required.



5.4.1. Enter Name of System

At “System Name” the name of the system can be entered. It will appear in the Statistics, as title of System-Info-Window and as title of the Graphics-Window. This setting is optional.



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5.4.2. Directories

5.4.2.1. Program files

This shows the installation path of R-Tube. It cannot be changed here. To change installation-path un- and re-install R-Tube.

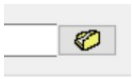
5.4.2.2. Properties

This shows the path where all local settings of R-Tube are stored. This path is selected automatically and cannot be changed. For proper function of R-Tube the user needs **read and write** rights on this folder.

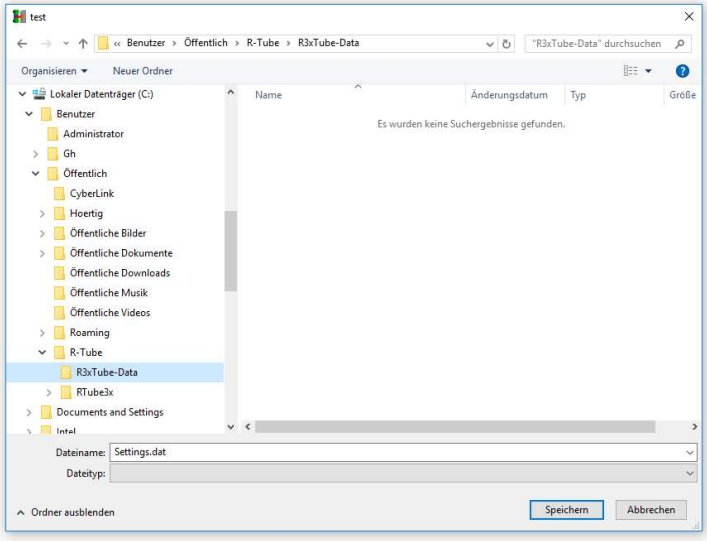
5.4.2.3. Database

This shows the path to the database. For proper function of R-Tube the database-directory must be set. The application will close if this setting is not adjusted.

To adjust the data-base-folder click on the button on the right side of the line:



A window pops up. Select a folder and click “Save”. If needed a new folder can be created.



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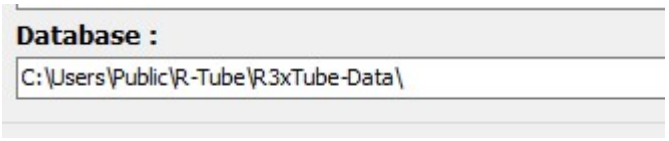
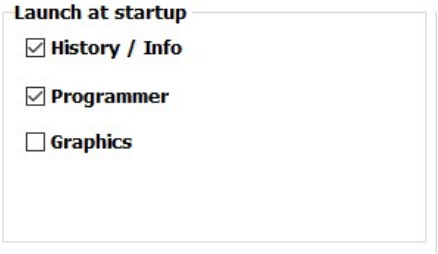
Note: The file name “Settings.dat” will be replaced by other files.
The selected path will be displayed in the settings-window:



If R-Tube runs as a host it is recommended that the database-folder is located on the local machine. To run R-Tube as a client adjust the database-folder to the database-folder of the R-Tube host. A file-share of the host-database-folder is required for this.

5.4.3. Launch at Startup

With these options it is possible to launch the most common applications of R-Tube after a rebbot.



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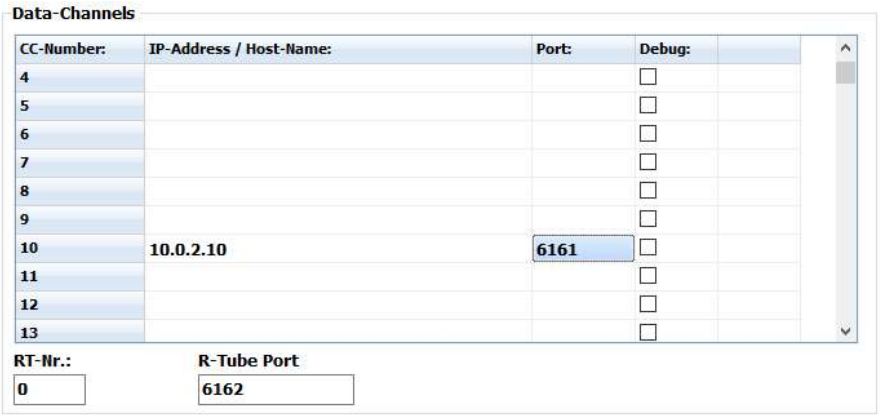
5.4.4. Adjust Data-Channels

5.4.4.1. R-Tube Host

R-Tube III uses TCP/IP-connection to the DCS. Each CC has a dedicated IP-Address. These addresses are entered in the channel-list. R-Tube can handle up to 254 CCs. Ask customer-IT which Addresses are allowed to be used.
See [1] Hörtig-E38 for further details about setting IP-Addresses on CCs.
The standard port to connect to a CC is 6161.
The debug-mode should only be set upon the advice of a support technician.
If two or more R-Tube hosts are connected to a CC each host needs a dedicated RT-Number. The number of hosts is limited to 16 (0-15).



Note: The value “R-Tube Port” is reserved for later use and should only be changed upon the advice of a support technician.

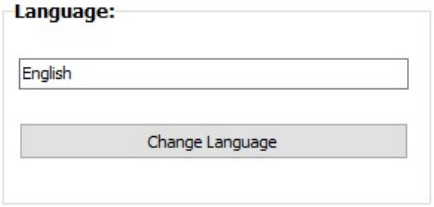
5.4.4.2. R-Tube Client

If the installation should run as a R-Tube Client there should be no entries in the channel-list. RT-Nr. Must not be adjusted.

Note: The value “R-Tube Port” is reserved for later use and should only be changed upon the advice of a support technician.

5.4.5. Select language

Language can be changed here again. See 5.2.



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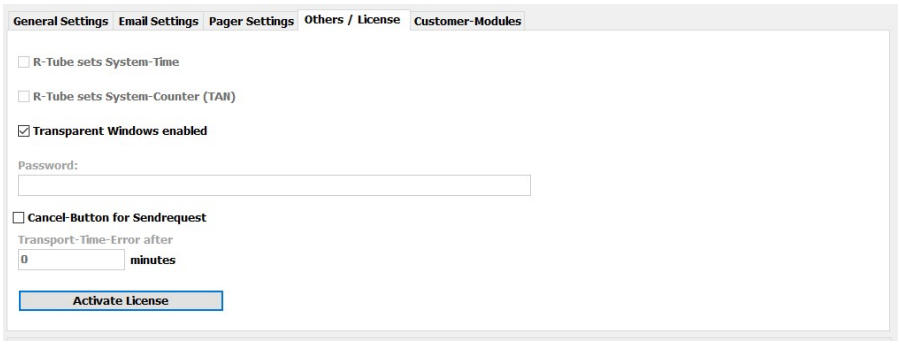
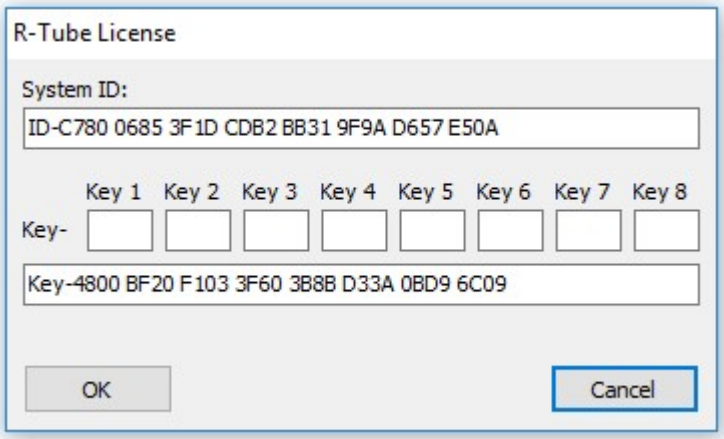
5.5. Activate License

5.5.1. General

To activate the license select “Others / License” from the tab-sheet. Then click on “Activate License”.



A window pops up that shows the System ID. This ID is unique and identifies the local PC. The support-team will create an individual Key for your PC.
To activate the license please enter your license-key. The key contains 8 groups of 4 digits (0-9) or characters (A-F). You can type it to Key 1-8 (upper-/lower-case will be ignored) or you can use copy/paste to enter it in the line below.



Note:
To get a license-key please send the System ID to your agent or to the support-team of HÖRTIG rohrpost GmbH (service@rohrpost.de).

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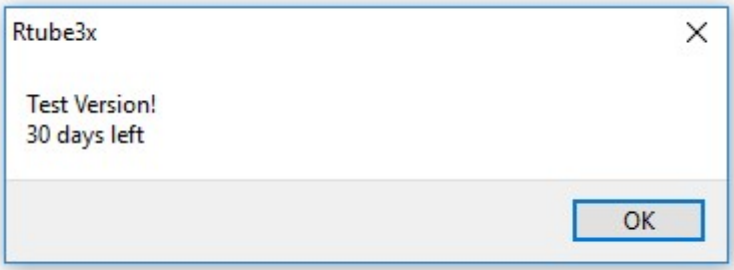
5.5.2. Test-License:

The following key is set by default: Key-4800 BF20 F103 3F60 3B8B D33A 0BD9 6C09
This key allows you to use R-Tube for a test-period of 30 days.

When starting R-Tube or closing “Settings and Options” you get a message that you are still using a test-version and the number of days left.



5.5.3. License Violation

License Violations may occur in the following case:

- Your license is expired. -> Ask for a new license-key.
- You have tried to connect to too many CCs. -> Reduce connections in Channel-List (see 5.3.4.1) or buy an extension of your license (you will get a new key).
- There were changes on PC-hardware that cause a change of system ID. -> Ask for a new license-key.

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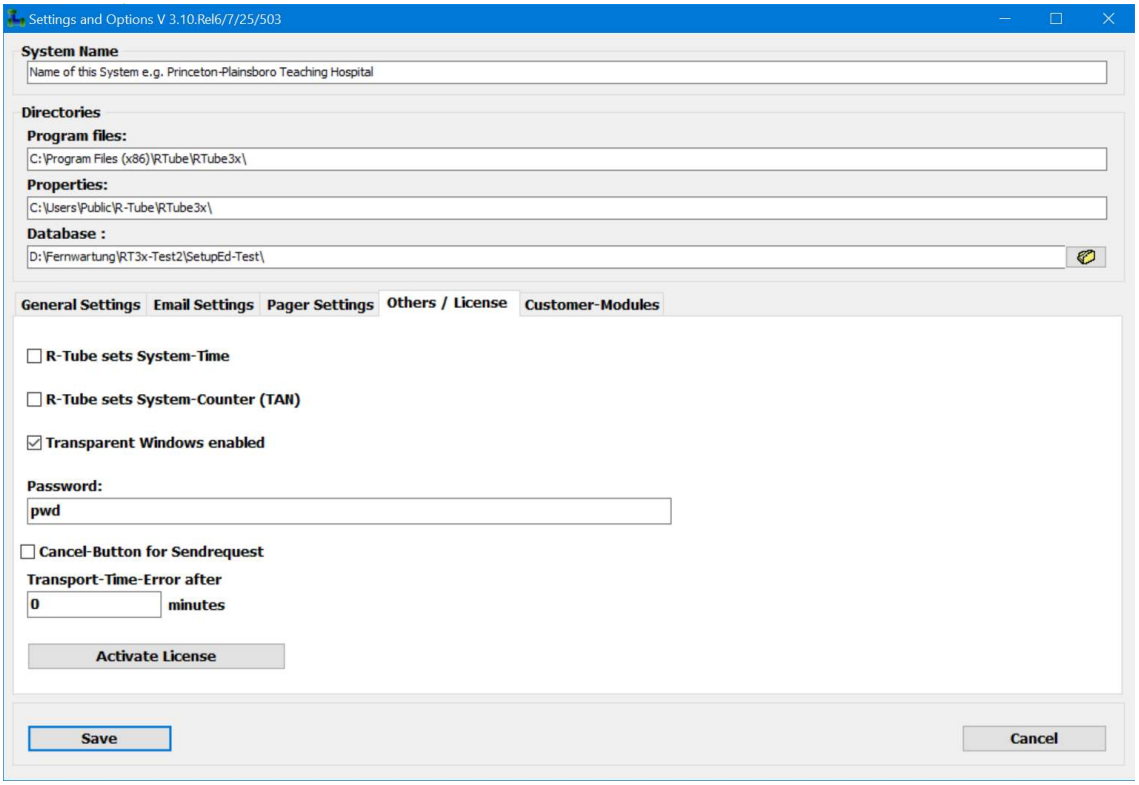
5.6. Other Options

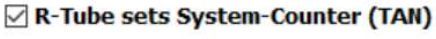


5.6.1. R-Tube sets System-Time

R-Tube is able to send a message to the DCS in order to set the RTC inside the CC. To avoid constantly changing time-settings in the CC this option should be enabled on one computer, only.

Note: This option is available on a host-installation, only.

5.6.2. R-Tube sets System-Counter (TAN)



The TANs are used to trace transports through several zones. To avoid double-TANs after a software-update or battery-change in CC, R-Tube can send a Message to the DCS to set the counters to the latest values. It is recommended to enable this option in at least one R-Tube host.

Note: This option is available on a host-installation, only.

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5.6.3. Transparent Windows enabled

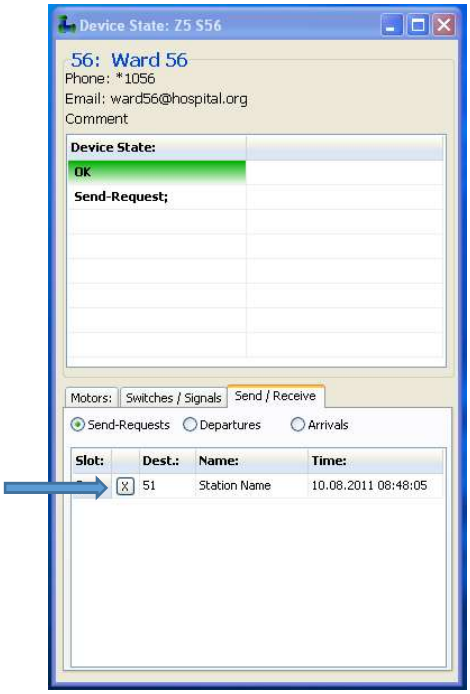
Some computers/graphics-cars are not powerful enough to display shaped or transparent windows. To change all windows into rectangular and solid ones disable this option.

5.6.4. Password

If R-Tube runs as a client access to “Programmer” and “Setup Editor” is protected by a password. The password has to be adjusted on the R-Tube host.

5.6.5. Cancel-Button for Sendrequest

Set this option active to enable the cancel-button in the send-request-list of the device-state-window.



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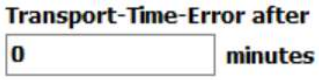
5.6.6. Transport-Time-Error



If a transport is not completed in the adjusted time it will be marked red in the Transports- List- Viewer and an error-message will be added (“Transport-Time longer than XX minutes”). (See [2] “Hörtig-U08” chap. 4.1.3. Page 22)
If value is adjusted to 0 the message will not appear.

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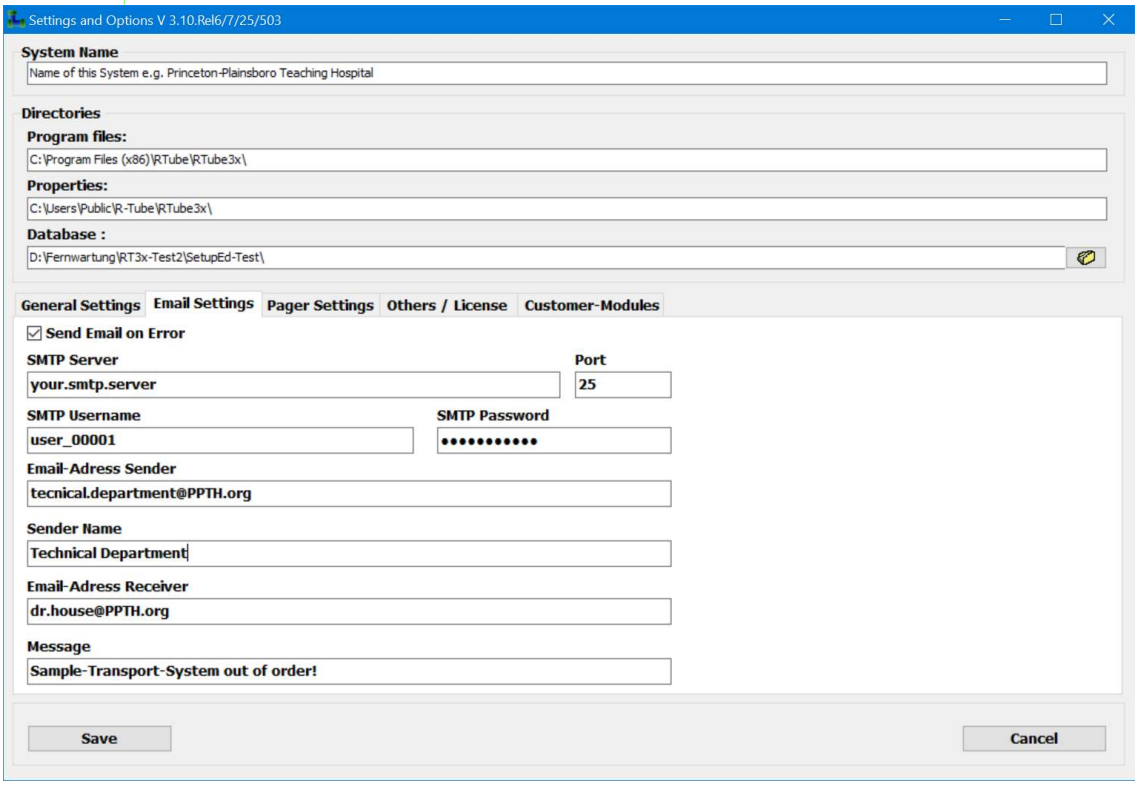
5.7. Email Settings

R-Tube is able to send Emails on certain events. To use this feature certain adjustments are necessary.



5.7.1. SMTP-Settings

To send an email via SMTP the following parameters are obligatory. Apply to your email-provider for these parameters.

SMTP Server: Enter Server name of SMTP-Server here.
Port: Enter TCP/IP-Port of the SMTP-Server here.
SMTP Username: Enter your user-name of your mail-account here.
SMTP Password: Enter your password here.
Email-Adress Sender: Enter a valid email-address here.
Sender Name: Enter sender-name here, e.g. „Technical Department“

5.7.2. Send Email on Error

In case of a malfunction that cannot be solved automatically R-Tube is able to send an email to one or more email-addresses. To use this feature three further settings are needed:

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1. Enable “Send Email on Error”.

   ☑ Send Email on Error

2. Enter email-address(es) of recipients. (if more than one address should be used separate them by “;”, e.g. technician1@ppth.org;technician2@ppth.org)

   Email-Adress Receiver

   dr.house@PPTH.org

3. Enter a message text of your choice.

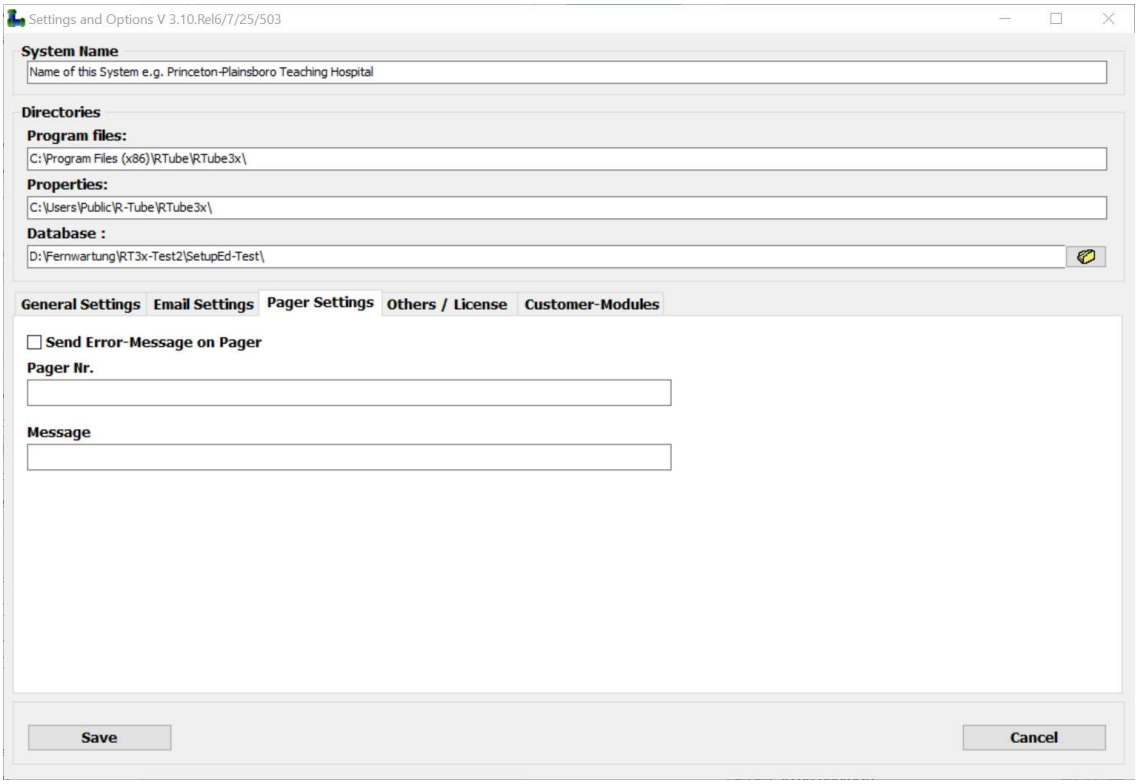
   Message

   Sample-Transport-System out of order!

5.7.3. Send Email on Arrival

See [2] “Hörtig-U08” chap. 4.4.2. Page 59.

5.8. Pager Settings



This feature is not available at present.

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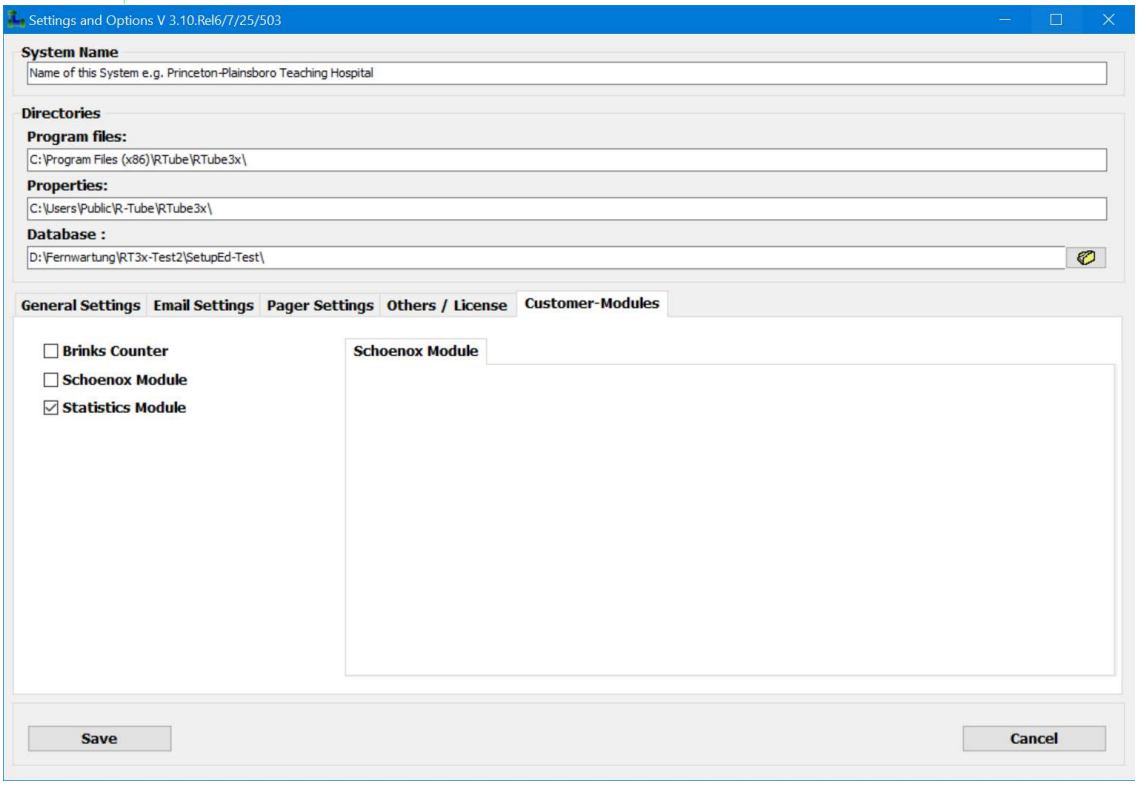
5.9. Customer Modules

Due to special customer-requests we develop individual tailor-made customer-modules.

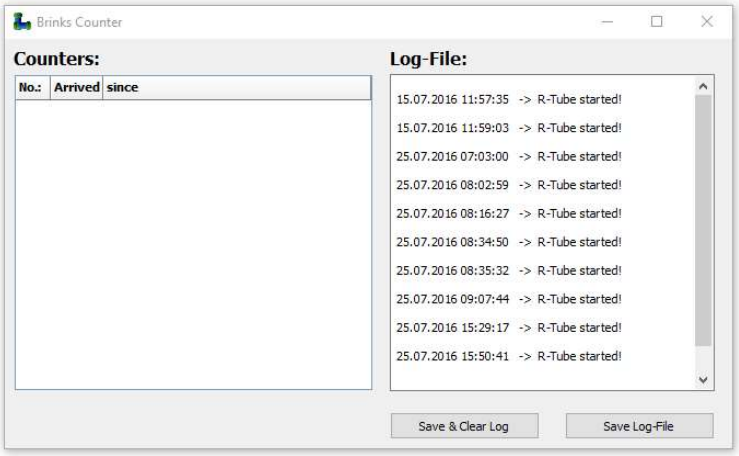


5.9.1. Brinks Counter

This is a special feature for supermarkets in France which have a separate strong room which can be accessed by a cash transport company, only.

☑ **Brinks Counter**

The Brink's counter lists up the number of arrived carriers and provides a log-file of all entries of personnel in the strong room.



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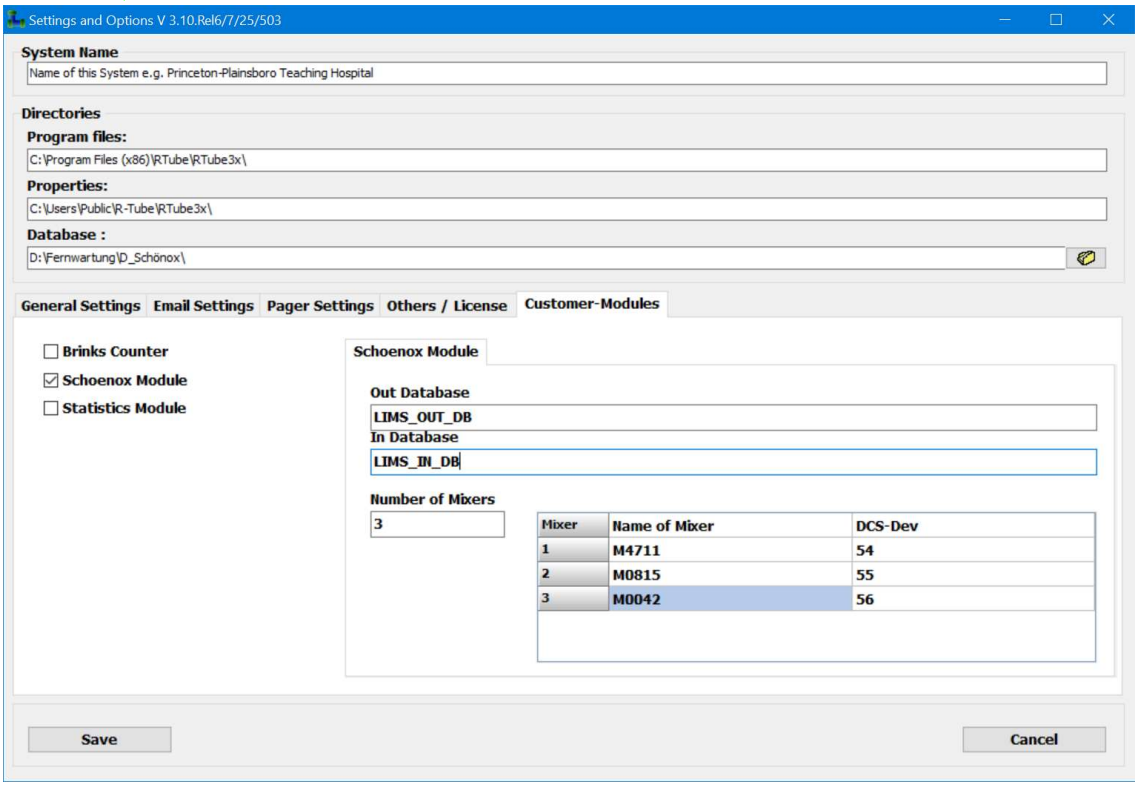
5.9.2. Schönox Module



The Schönox Module is a tailor made solution for automatic sampling in an industrial plant. An additional software package is started when activating this option (not included in standard delivery). It connects via an ORACLE database to the LIMS of the customer. LIMS can “order” samples for the actual batch. Later on the samples can be identified by RFID-tags in the sample-carriers.

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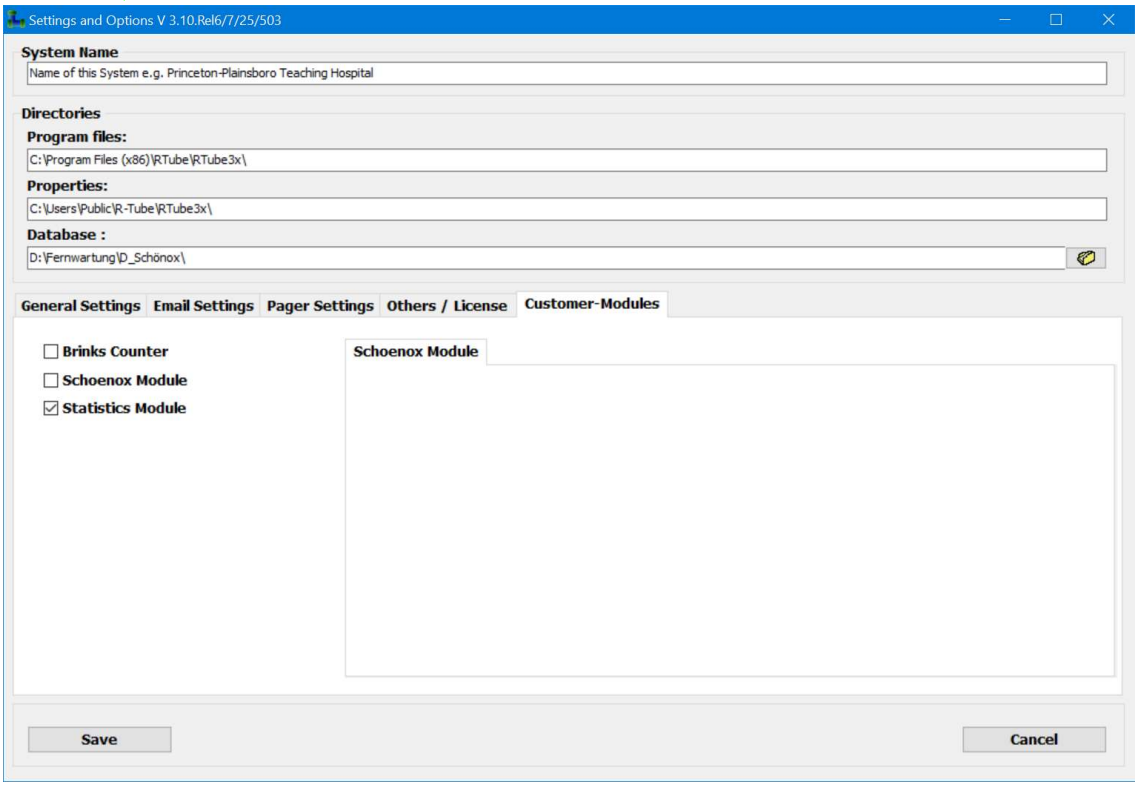
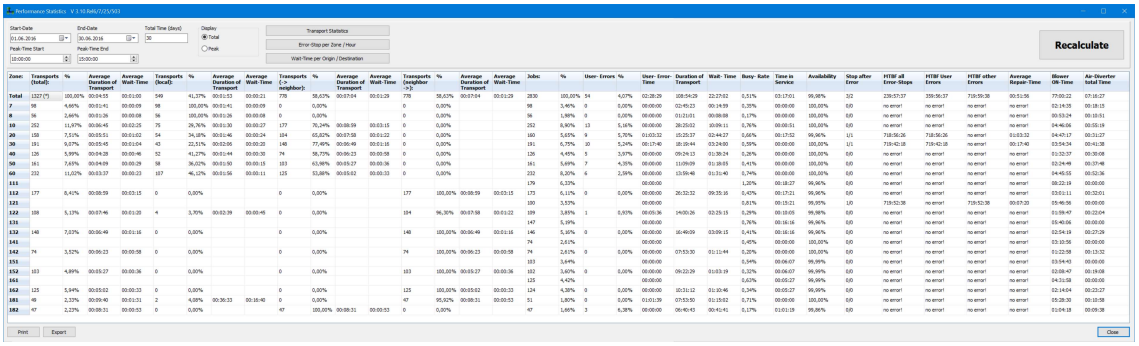
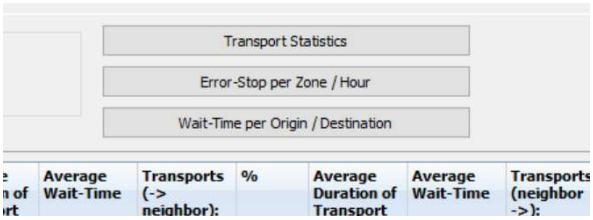
5.9.3. Statistics Module



Use this option to enable some additional features in the performance statistics.
For further information see [2] „Hörtig-U8“ chap. 4.1.3.13. Page 28 et seq.





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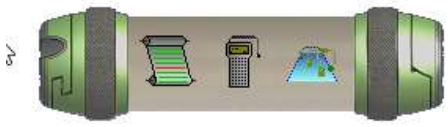
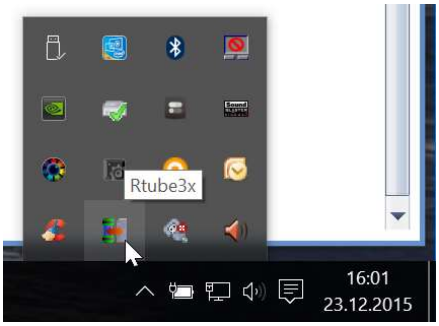
6. Using R-Tube

Hörtig R-Tube-System H61F is designed as a Distributed Control System. It is able to transport carriers even though R-Tube is not active. To get a permanent recording of transports in the DCS please ensure that at least a R-Tube host is running permanently. If R-Tube host is shut down there will be no recording!
In order to prevent damage of database files, shut down R-Tube before rebooting the computer.

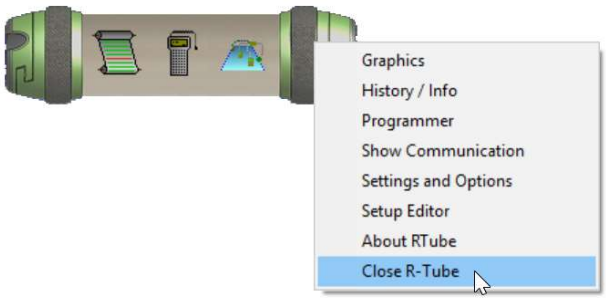
The toolbar of R-Tube main application will stay always on top of desktop.

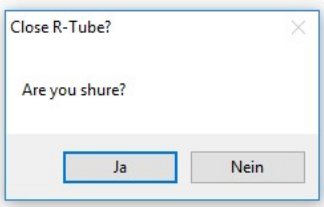


While R-Tube is running on a PC you can find a small R-Tube icon at the right side of the taskbar.



To shut down R-Tube use “Close R-Tube” in the popup-menu of the main application.





For further details please refer to [2] Hörtig-U08 “R-Tube User Manual”.

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7. Support Info

For questions contact Technical Service:

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* End of Document *

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