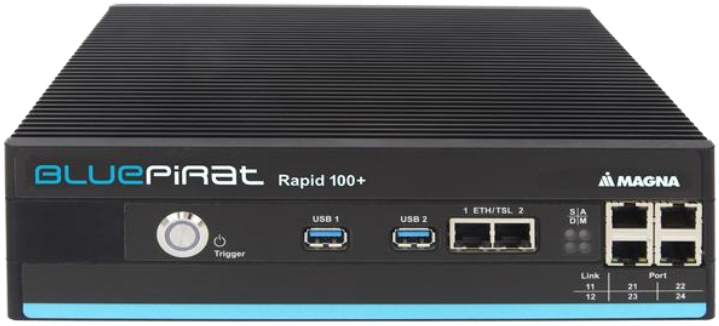

BLUEPIRAT Series
Download Terminal User Guide / 30.09.2020

Version 5.0.1

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1 LICENSE AGREEMENT

Please read the license agreement of this license contract carefully, before you install the software. By the installation of the software you agree to the conditions of this license contract.
This software-license agreement, in the following called “license”, contains all rights and restrictions for final users that regulate the use of the accompanying software, operating instructions and other documents, in the following called as “software”.

1. This license contract is an agreement between licensor and licensee, who is being licensed to use the named software.
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12. If a regulation of this license contract is void by law, the validity of the remaining regulations is not affected. If there is such a regulation it will be replaced by a valid, according to the legal regulations and enforceable regulation with similar intention and similar economic consequence.
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15. The licensee is liable for all damages caused to the licensor by the violation of these license regulations.

2 PRODUCT LIABILITY

2.1 Terms and Conditions of Sale and Delivery

The General Terms and Conditions of Sale and Delivery of MAGNA Telemotive GmbH can be found on our website (https://telemotive.magna.com) under imprint.

2.2 Important operating instructions

Please note these important instructions about the handling of devices of MAGNA Telemotive GmbH!

There's a linux system running on the devices and sometimes when the device has a dirty shutdown due to a power break down or unplugging the power supply, the system is corrupt from this time. You know this situation from a PC, when you switch it off some times it maybe will not work any more or show you some mistakes.

In most cases this issue is catched up and repaired by the linux system we use, but sometimes it can happen that the system on the logger is damaged and there's no access to the device any more.

We are optimizing the handling of corrupted systems permanently and are integrating some new enhancements regarding this kind of issues with every new release to save the system. But we can't make the system for 100% save against these influences.

So please use always the provided mechanism for shutting down the device or the implemented standby function in which the device shutting down when no traffic is detected any more in an adjustable time.

3 Overview

This user guide describes the feature of the license **Download Terminal** for the following data loggers of MAGNA Telemotive GmbH:

- BLUEPIRAT Rapid
- BLUEPIRAT Mini
- Remote Control Touch
- BLUEPIRAT Power Backup
- BLUEPIRAT2 5E
- BLUEPIRAT2
- BLUEPIRAT Remote

The Download Terminal in the System Client allows the automatization of nearly all processes which had to be done by hand for every device before. By assigning devices to groups you can define, which steps had to be performed for which group of devices, when the client identifies a device.

The whole workflow, from updating the firmware or configuration up to download and conversion of the files can be defined and will be done for these devices later without any interaction of users.

This helps you to archive results of test drives automatically which saves time for instruction of your test drivers who only have to plug the device into your network.

This document refers to **firmware version 05.00.01** and the **System Client** from **version 5.0.1**. Some features depending on model and feature license or may not be available in older versions.

Software updates and user guides for other, optional, licensed enhancements are available in our Service Center. (Please find the address under Contact at the last page.)

To ensure the most reliable operation of your system as possible, please make sure to use always current firmware and software versions.

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4 System requirements

The communication between bus systems and control units is monitored, and relevant data can be recorded very precisely with the data logger. The collected data are stored to the logger and can be downloaded via Ethernet to a PC.

Control Unit
You need a Windows based Laptop or PC to configure the devices by the **System Client**. It also allows to save the recorded data and to use them offline later.

System Client
Update, configure and read out your data loggers with System Client. Save time with central administration of your software products. System Client is your key to success for using all our products!

BLUEPIRAT Rapid
High-performance multi-bus data logger for modern vehicle architectures based on Automotive Ethernet. With up to 3 TB internal memory and supreme recording performance. Robust and compact for in-vehicle use.

Due to the increasing complexity of driver assistance systems and the growing number of infotainment applications, the data traffic between ECUs in the most recent vehicle models has grown significantly. Consequently, besides the various classic bus systems, modern vehicle architectures are based on Automotive Ethernet according to BroadR-Reach / IEEE 802.3 100(0)Base-T1, which can keep up with the growing bandwidth demand.

Power Backup
The **Power Backup** is a special component, which is designed to bridge short voltage interruptions. It is connected upstream of the data loggers on the voltage side, and must be connected to them via a dedicated LS CAN port for controlling.

BLUEPIRAT Mini
The **BLUEPIRAT Mini** is smallest data logger in the world with an outstanding functional scope. It offers a wide range of interfaces, stable temperature behavior, very low energy consumption, four GBit Ethernet ports, and much more. Different blue PiraT Mini can be expanded flexibly to one cluster and therefore handled very easily by using System Link.

BLUEPIRAT2
The **BLUEPIRAT2** is our top-class all-in-one data logger. Seven models cover a wide range of interfaces. (Device is EOL)

BLUEPIRAT2 5E
Additionally, the **BLUEPIRAT2 5E** offers improved power management and power backup, five integrated Ethernet ports and super-fast start-up behavior. The BLUEPIRAT2 can be expanded flexibly via System Link. (Device is EOL)

Remote Control Touch (optional)
Operate your BLUEPIRAT data loggers safely and comfortably from the driver's or passenger seat. Via System Link our new remote control becomes part of your logger network. One remote control can handle all connected loggers.

BLUEPIRAT Remote (optional)
While Remote Control Touch is just a control unit for handling unique devices or a TSL network, the blue PiraT Remote additional has logger functionality by offering internal storage and some interfaces. (Device is EOL)

License
For the additional feature **Download Terminal** an installed license is required. Settings for licensed features can be performed with a valid license only.

If you need a license for your logger, please contact our sales department (please find the address under contact at the last page).

4.1 Further manuals

Beside this user Manual, we offer the main manuals for our System Client as well as for the different data logger generations in our Service Center at

https://sc.telemotive.de/bluepirat.

Our licensed enhancements have own manuals which are stored in the Service Center too. You will find a list of these enhancements in the user manuals in the chapter **Additional features by optional licenses**.

Under the following links, you always will find the latest versions:

User manual for the System Client
https://sc.telemotive.de/4/uploads/media/SystemClient_UserManual.pdf

User manual for BLUEPIRAT Rapid
https://sc.telemotive.de/4/uploads/media/BLUEPIRAT_Rapid_UserManual.pdf

User manual for BLUEPIRAT Mini
https://sc.telemotive.de/4/uploads/media/BLUEPIRAT_Mini_UserManual.pdf

User manual for Remote Control Touch
https://sc.telemotive.de/4/uploads/media/RCTouch_UserGuide.pdf

User manual for BLUEPIRAT Power Backup
https://sc.telemotive.de/4/uploads/media/BLUEPIRAT_Power_Backup_UserManual.pdf

User manual for BLUEPIRAT2 / BLUEPIRAT2 5E
https://sc.telemotive.de/4/uploads/media/BLUEPIRAT2_UserManual.pdf

User manual for BLUEPIRAT Remote
https://sc.telemotive.de/4/uploads/media/BLUEPIRAT_Remote_UserGuide.pdf

For having an easy access if necessary, the most important manuals are linked in the client under the menu item [Help] and are reachable easily from there.

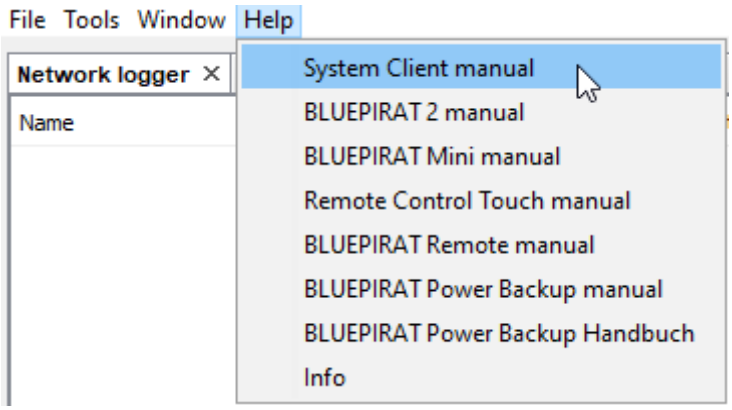


Figure 4.1: links to the manuals in the System Client

4.2 Additional features by optional licenses

Additional features can be activated by purchasing and installing licenses. Licenses can be ordered at our sales team. You find the user guides for these additional features in our Service Center. Currently the following licensed features are available.

Feature	Description
Camera Link	video recording via video server or network cameras Till now, only some cameras from AXIS were supported
WLAN	supporting wireless LAN / WiFi (802.11, 802.11a, 802.11n), *(802.11ac from FW 02.04.01)*
GPS logging	tracking of GPS data
Measurements with CCP	CAN Calibration Protocol
Measurements with XCP	Universal Measurement and Calibration Protocol Currently the functionality for Ethernet (XCP on Ethernet) and the CAN-bus (XCP on CAN) are available.
MOST150 Streaming	logging MOST150 synchronous/isochronous data
MLBevo / QXDM	The license Connected-Gateway MLBevo enables the recording of data of the ATOP control unit MLBevo via USB to the Magna Telemotive data logger and convert these data with the System Client. *(from FW 02.03.01)* Additional this license allows to log Qualcomm QXDM logs via USB *(from FW 03.06.XX)*
Download Terminal	The in the System Client integrated Download Terminal allows an automatization of configured tasks for a defined group of devices. *(from FW 02.03.01)*
Test automation	Interface for connecting to test automation tools. At the moment, the sending of CAN messages is supported. *(from FW 02.04.01)*
Cellular network	Allows the logger to send status messages over cellular network. *(from FW 03.01.01)*
Firmware Care	As part of the " Service Product Firmware Care ", new software and firmware versions are made available for download for a limited period of time. This service is available for 12 months from the date of purchasing the **BLUEPIRAT**. This period can be extended by licenses.

Table 4.1: Additional features by optional licenses

4.3 Firmware Care

MAGNA Telemotive GmbH invests a great amount in the further development of its products.

For this we regularly provide new functions and enhancements via firmware and client releases.

Basic conditions

As part of the " Service Product Firmware Care ", new software and firmware versions are made available for download for a limited period of time. This service is available for 12 months from the date of purchasing the **BLUEPIRAT**. This period can be extended.

For details, please contact your sales partner (see contact at the end of the manual for addresses).

Affected products

- **BLUEPIRAT Rapid**
- **BLUEPIRAT Mini**
- **Remote Control Touch**
- **BLUEPIRAT2 5E**
- **BLUEPIRAT2**
- **BLUEPIRAT Remote**

Note:
Enhancements are only possible in current firmware releases.

Attention:
Please note that updates to main firmware versions (05.00.01 / 06.00.01) need a special update license and can't be flashed to a device without this license.

To buy these licenses please contact our sales department under TMO.Sales@magna.com *(please find the complete address under Contact on the last page)*.

5 Starting Download Terminal

Please choose **[Tools]** => **[Download Terminal]** to change into **Download Terminal.**

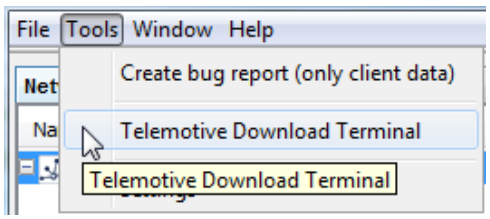


Figure 5.1: Starting Download Terminal

If there are some tabs open in the client you will get a message to close this tabs

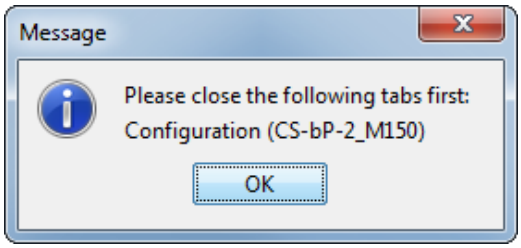


Figure 5.2: Messsage if tabs are open

The client window changes into **Download Terminal**,

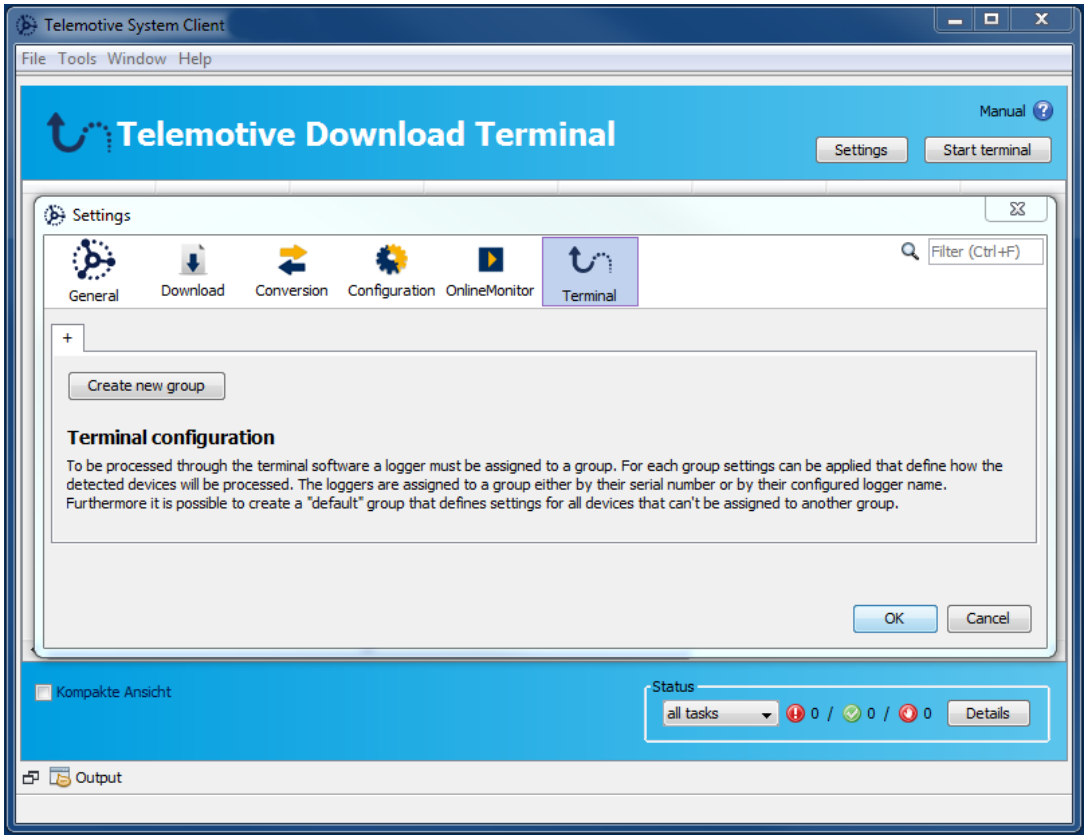


Figure 5.3: Starting Download Terminal

and opens automatically the settings window when it starts the first time.

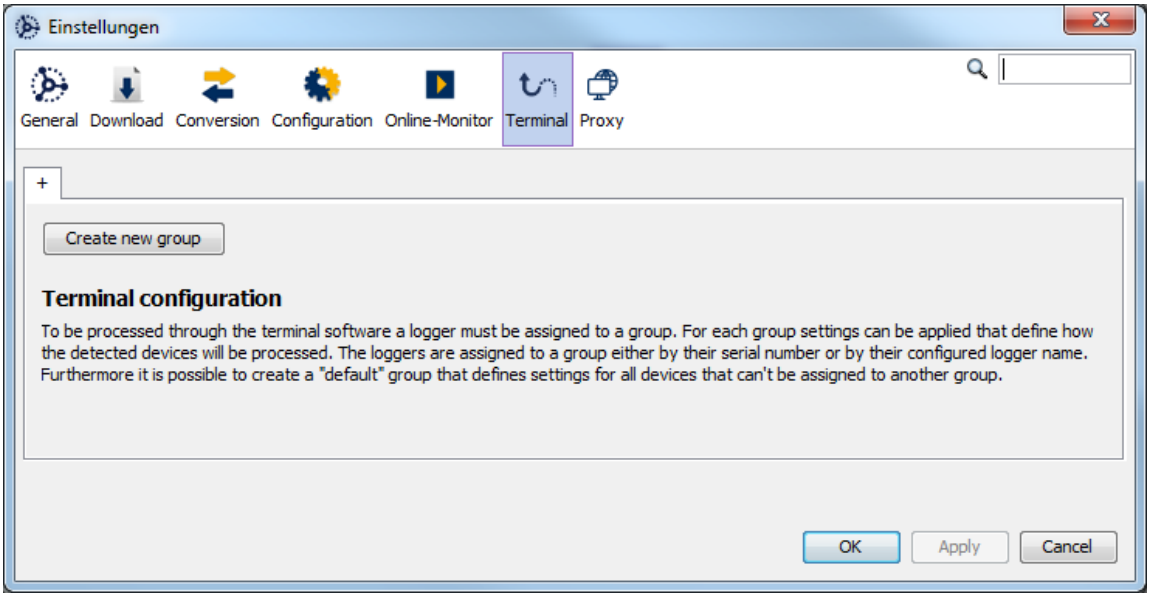


Figure 5.4: Settings for Download Terminal

Following the note you have to create a group in the first step by clicking Create new group to which the devices can be assigned later.

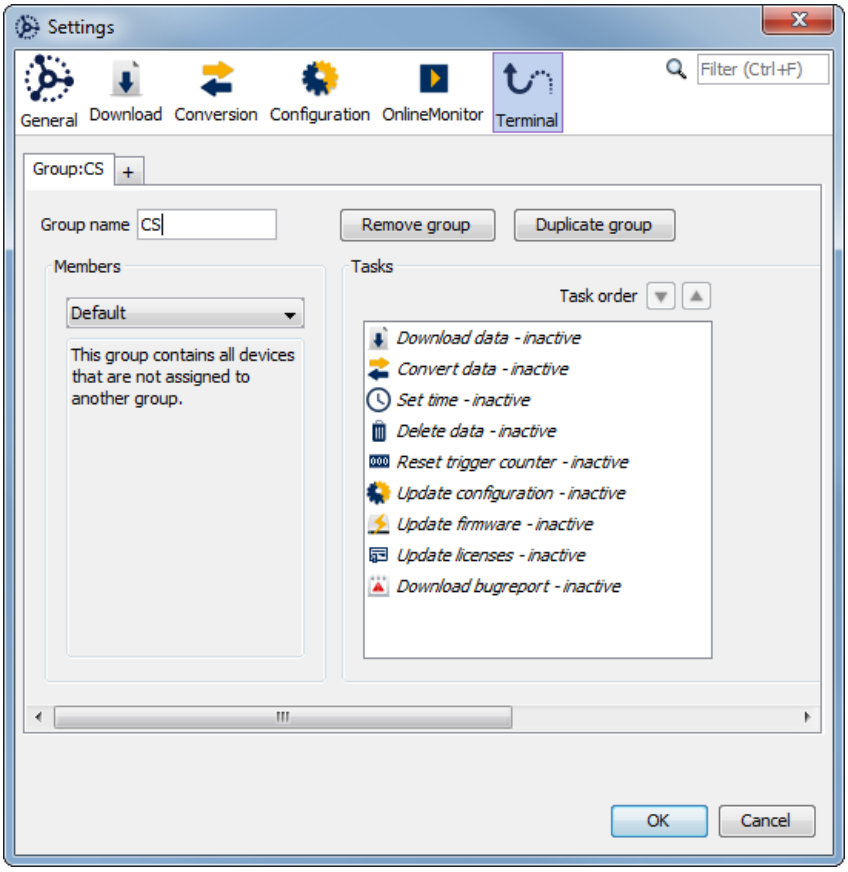


Figure 5.5: Creating a new group

5.1 Assigning devices to a group

These methods are available to assign a logger to a group:

- Default
- Identified by name
- Identified by S/N
- Identified by IP

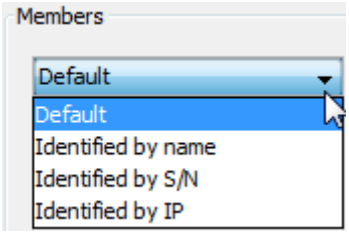


Figure 5.6: Assigning members to a group

Device can be added by writing them into the empty field and transfer them by the button

into the list.

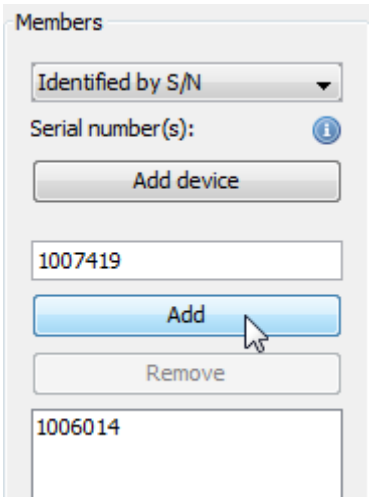
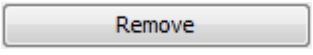


Figure 5.7: Adding the members

Devices can be removed from the list by clicking 

.

5.1.1 Default

If the method is set to [default], all devices which are not assigned to another group are handled with the configured settings.

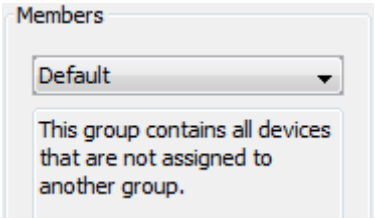


Figure 5.8: Members: default

Attention:
Do not use this option in huge networks where a lot of devices are available because all devices will be handled with these steps when the Download Terminal identifies this device.

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5.1.2 Identified by name

5.1.2.1 Single logger

Members can be identified by their name. Available options are to identify them by the whole name, the beginning or a part at the name.

Important: the search is case-sensitive!

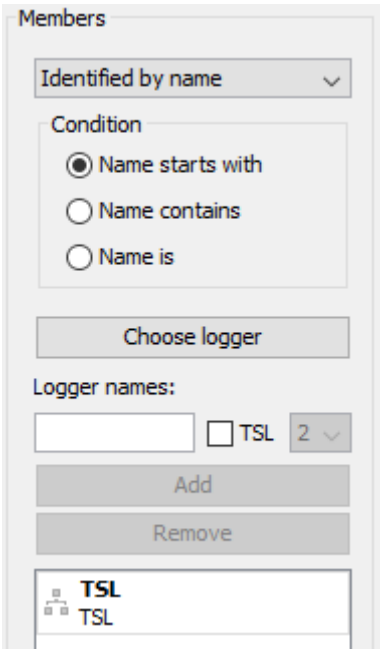

Figure 5.9: Members: identified by name

5.1.2.2 TSL network

A TSL group can only be searched for by entering the complete name.

Important: the search is case-sensitive!

As soon as the option TSL is activated, the following message appears:

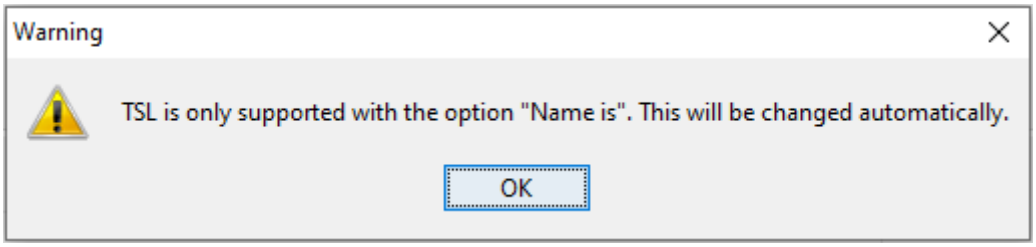

Figure 5.10: TSL selection Note

Use the selection field on the right side to specify the number of devices in the TSL network.

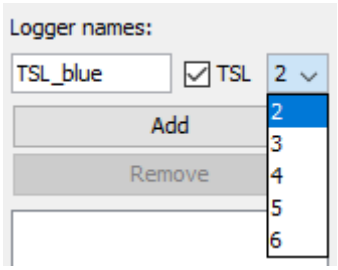

Figure 5.11: Entering the number of devices of the TSL network

By clicking on the [Add] button, the input is transferred to the search field.

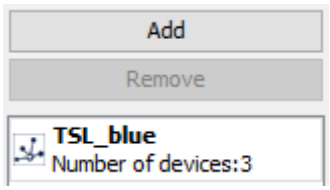

Figure 5.12: TSL name in the search mask

5.1.3 Identified by S/N

Devices can also be assigned to a group by their serial number.

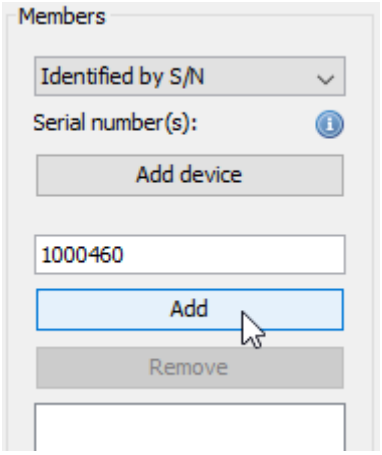

Figure 5.13: Members: identified by S/N

Devices or TSL cluster, which are active and reachable, can be added directly available by using the button **[Add].**

Note:
A TSL-Cluster can be added by typing all serial numbers of the TSL into the field, divided by comma. Adding a TSL-Cluster by names or IP addresses is not possible.

Clicking on the info button shows a hint about this procedure.

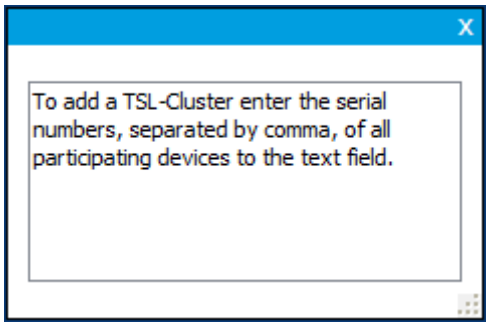

Figure 5.14: Note for adding a TSL-Cluster

There are two ways adding a TSL-Cluster:

1. using the button [Add device]
2. by entering the serial numbers, which must be separated by commas

5.1.3.1 Adding a TSL-Cluster by using the button [Add device]

Please click the **[Add device]** button.

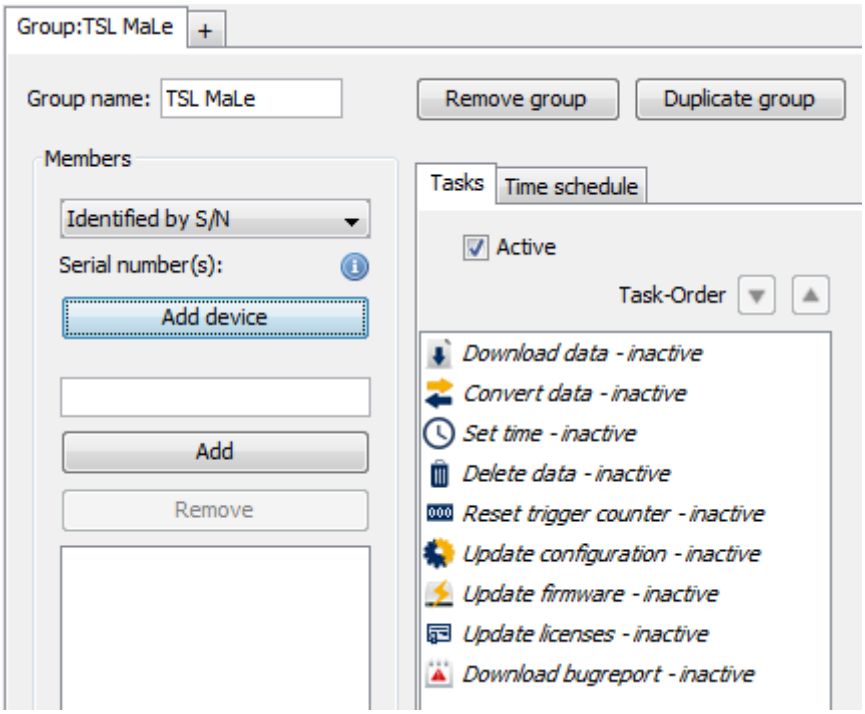

Figure 5.15: Button [Add device]

Now select the desired TSL-Cluster and click on the [Add] button.

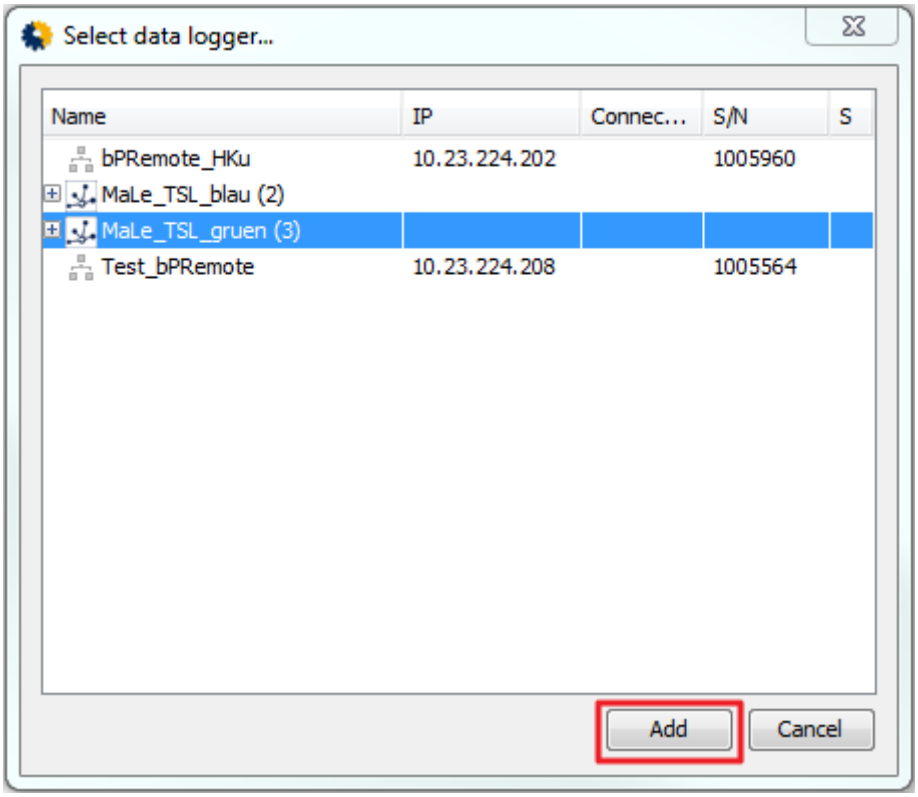

Figure 5.16: Selecting a TSL-Cluster

The members of the TSL-Cluster are then displayed with their serial numbers and the TSL icon in the list.

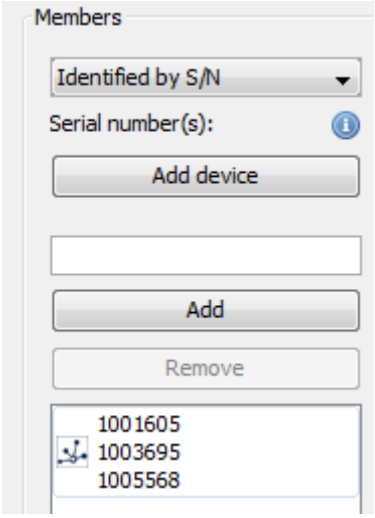

Figure 5.17: Display of a TSL-Cluster

5.1.3.2 Adding a TSL-Cluster by entering the serial number

The member of a TSL-Cluster can also be added by the serial number of the individual loggers separated by commas.

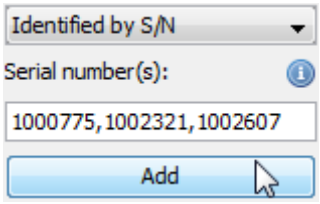

Figure 5.18: Adding a TSL-Cluster via serial number input

The members of the TSL-Cluster appears then with the TSL-icon in the list

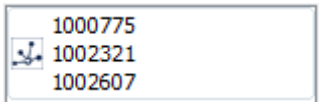

Figure 5.19: TSL-Cluster in the list

After the start of the Download Terminal, the data is downloaded from the entire TSL-Cluster.

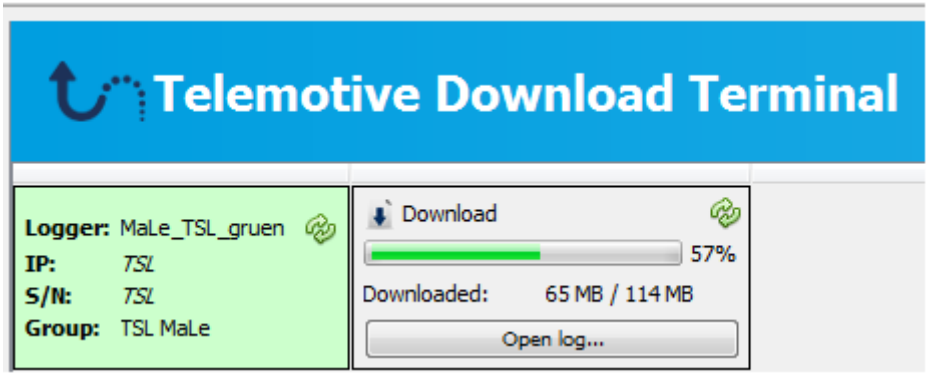

Figure 5.20: Shown name of a TSL-Cluster

5.1.4 Identified by IP

Devices also can be identified and assigned to a group by their IP address.

The subnet mask is automatically set to the range of the used computer. Otherwise the client wouldn't see the devices too.

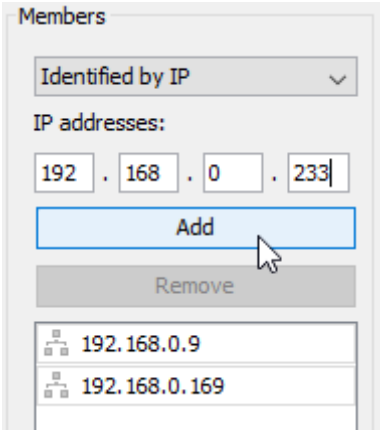

Figure 5.21: Identified by IP

5.1.5 Terminal IP address

The Telemotive data logger have a feature called **"Download Terminal"** which allows to connect several logger to one computer system for configuration, downloading or other features without the need to modify the network settings of each data logger.

For this feature every data logger has a second, fixed IP address in the subnet 10.1.X.Y which can be contacted by the System Client.

Attention:
To use this option your computers network port has to be set to the fixed IP address 10.1.255.254 and subnet mask 255.255.0.0.

To set this IP address, please go to the specific network connection at **[Properties]** change the IP settings and close the window with **[OK]**.

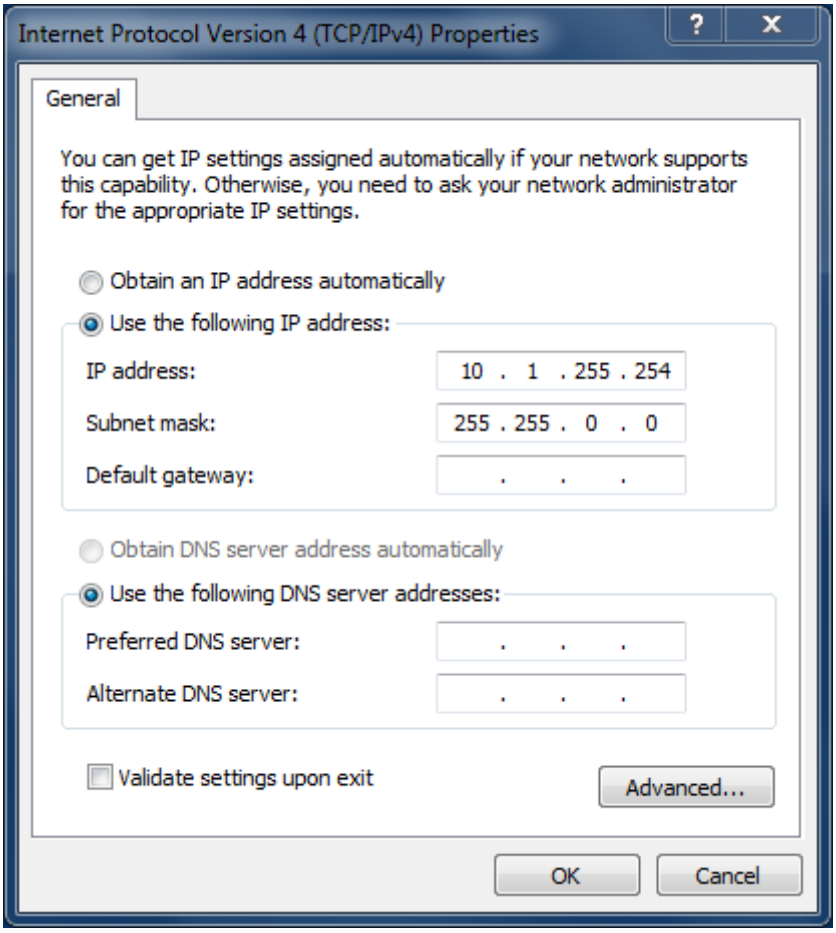

Figure 5.22: Change IP settings

When this is done the System Client establishes the connection to the data loggers and the devices can be used. There will be no conflicts while using more than one data logger as DHCP-Server in **Download Terminal** mode.

5.1.6 Activation & deactivation of groups

Every group can be activated or deactivates separately.

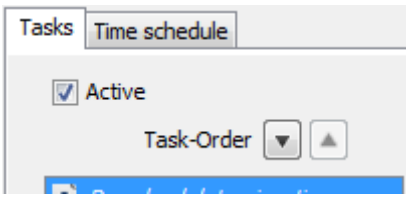

Figure 5.23: Activation & deactivation of groups

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6 Available tasks

Every group can contain a list of tasks which will be executed when a device is recognized by **Download Terminal.** You can choose individual which task is needed for every group as well as you can set the order of the tasks. The execution of the tasks has some logical limitations so you can't download data after a firmware upgrade because the upgrade deletes al data.

These limitations are shown in the settings window as notes in red

When a task is marked in the list, the settings for this task are shown on the right side

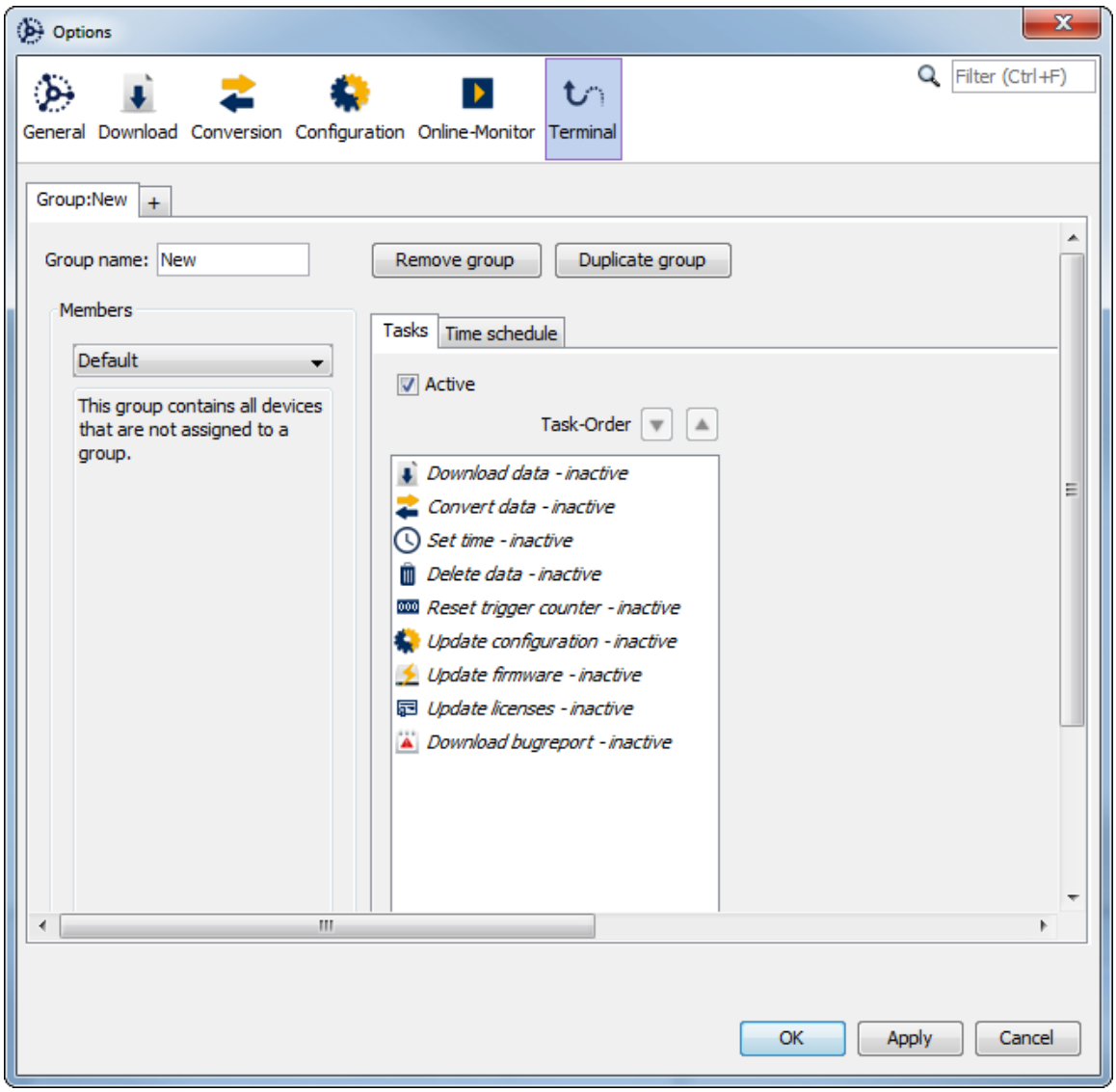
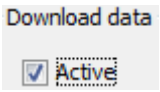


Figure 6.1: The task list

Every single task can be set as active or not active by marking the field **[Active].**



6.1 Download data

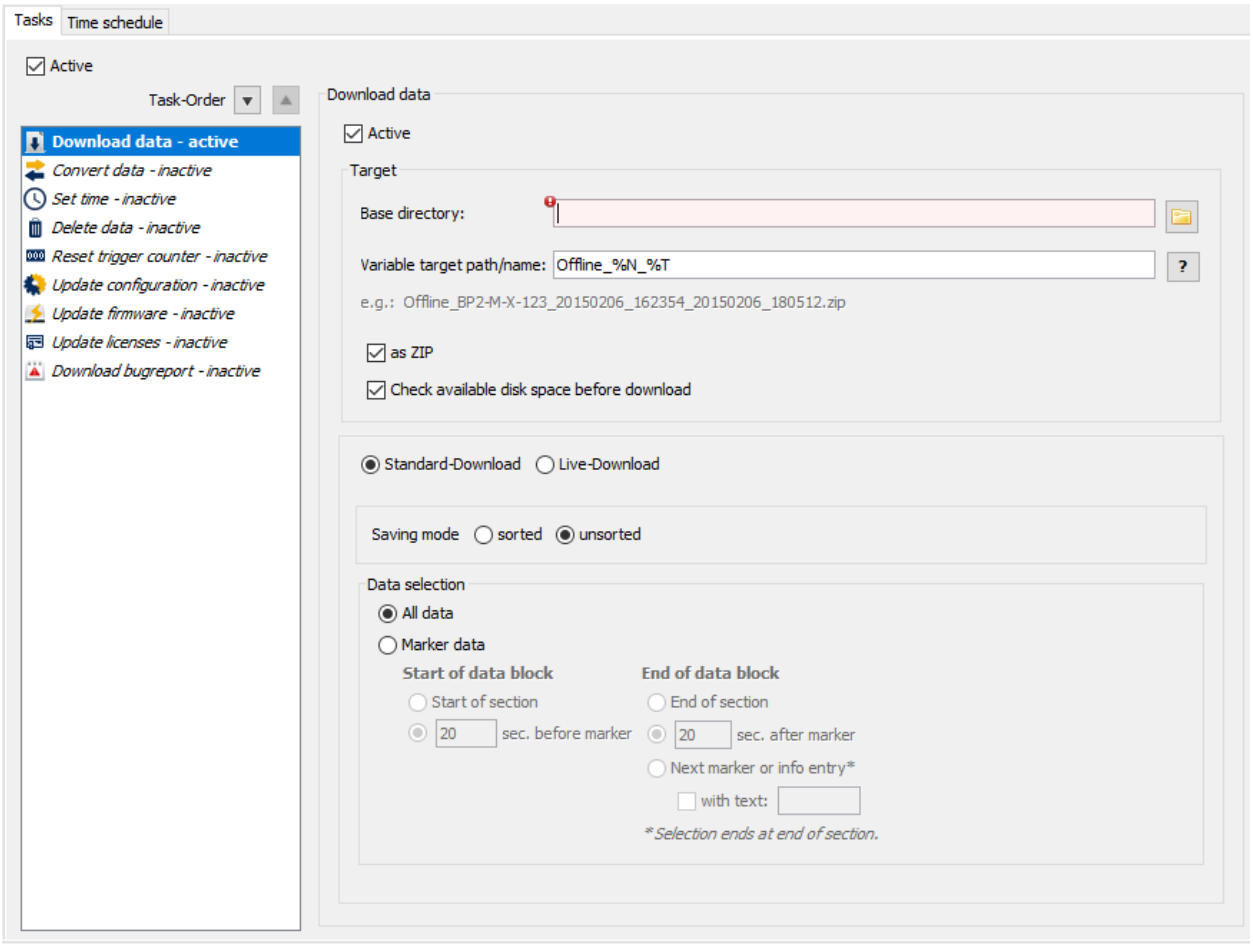


Figure 6.2: Task: Download data

6.1.1 Target directory

For using the data download task it is obligatory to set a base directory first. The field for the base directory is marked in red,

Figure 6.3: Note for settings

and additional shown on the bottom of the window.

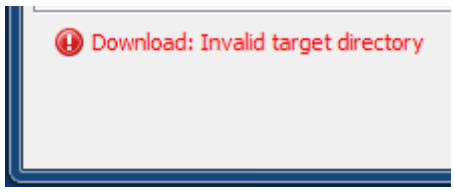


Figure 6.4: Note at the footer

By using the button it is possible to navigate to the base directory you want to use.

The file name format can be modified by using variables which will be integrated automatically.

Using the specified placeholders you can specify how the offline data set will be stored to your local drive. Device name (%N) and the time span (%T) have to be specified at least once.

Note that you can create subdirectories by entering "/" or "\" to the file name format.

- %D, %d Date, e.g. "[2020-02-06]"
- %N, %n Device name
- %T, %t Start and end time
- %S, %s Device serial number

Example:
%N\Offline_%T -> Device name\Offline_20200206_154312_20200206_164802.zip

6.1.2 Checking the available memory

Take care that you choose a base directory with enough free memory.

As an option, a check of the disk space before the download can be activated.

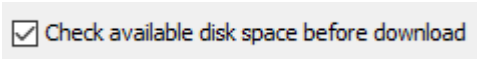
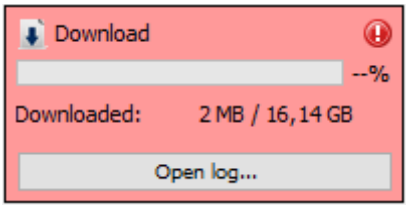


Figure 6.5: Check option available disk space before downloading

The available disk space is always checked at the beginning of the download. If there is enough disk space available, the download task reserves this space for itself. The next download then checks the physically available space and reduces it by the space already used by other tasks.

If there is not enough memory, the task starts anyway and checks the available memory after downloading the reference database and calculating the amount of data to be downloaded. If it is found that there is not enough memory, an error message is displayed that there is not enough free memory available in the target directory:



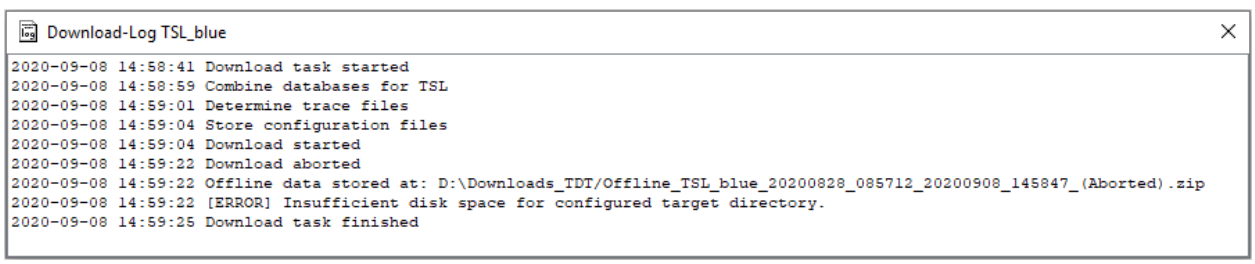


Figure 6.6: Note if there is not enough disk space for the download

6.1.3 Live-Download

A Live-Download is also available as an option.

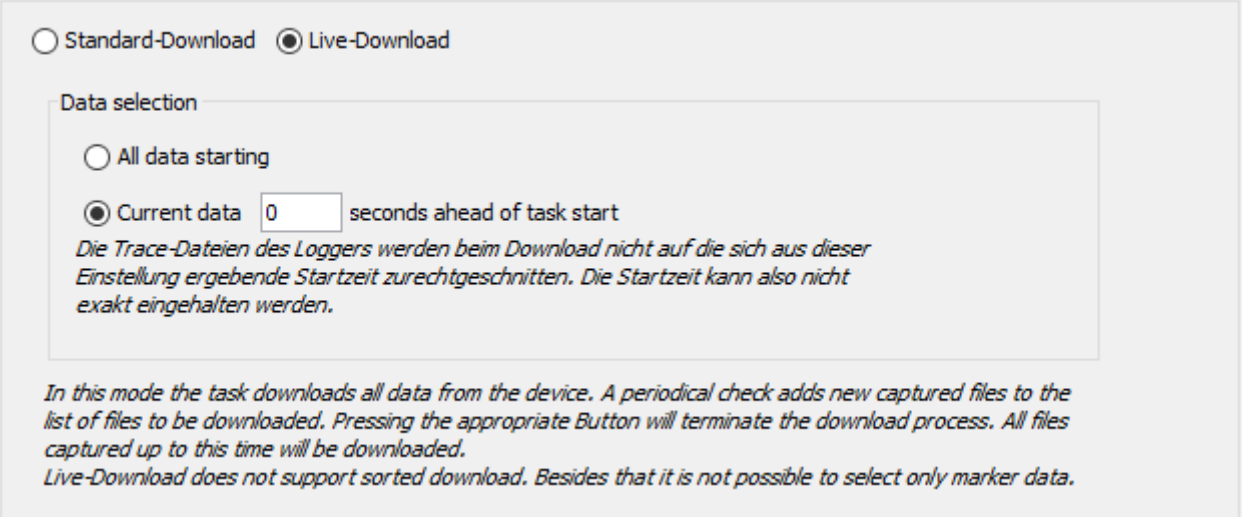


Figure 6.7: Option Live-Download

This option is used to download the trace data via a laptop during a test drive in the vehicle.

The live download loads all data from the logger (except for the data already downloaded from the download terminal), but does not stop afterwards. Instead, it checks every three minutes whether new data has been recorded by the logger. If so, these data are added to the offline data record. The task remains active until the "Complete Live Download" button is clicked. Then all data up to this point will be downloaded. After that the Task ends.

Note:
In this download mode the data can only be downloaded unsorted. A selection of marker data is not possible.

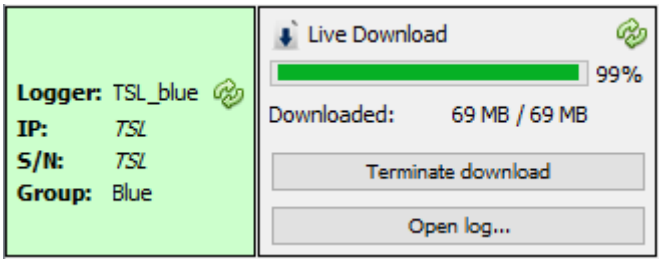


Figure 6.8: Live-Download started

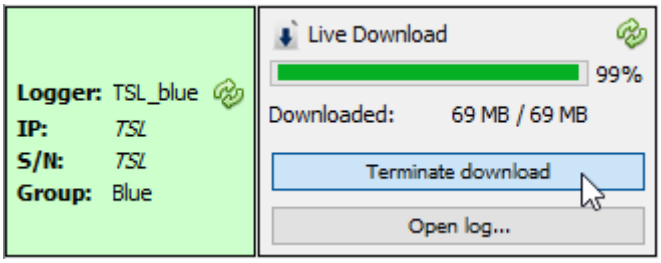


Figure 6.9: Finish Live-Download

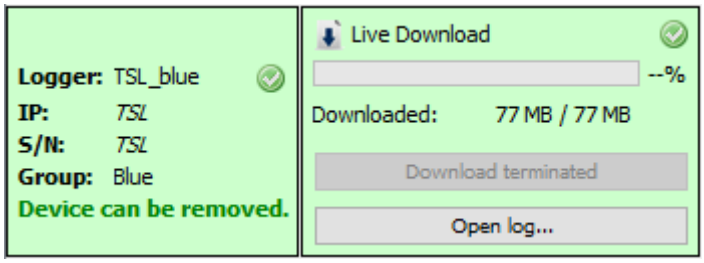


Figure 6.10: Live download completed

6.1.4 Further download options

Analog to the System Client, you can select the download format

Figure 6.11: Saving mode

and the data you want to download.

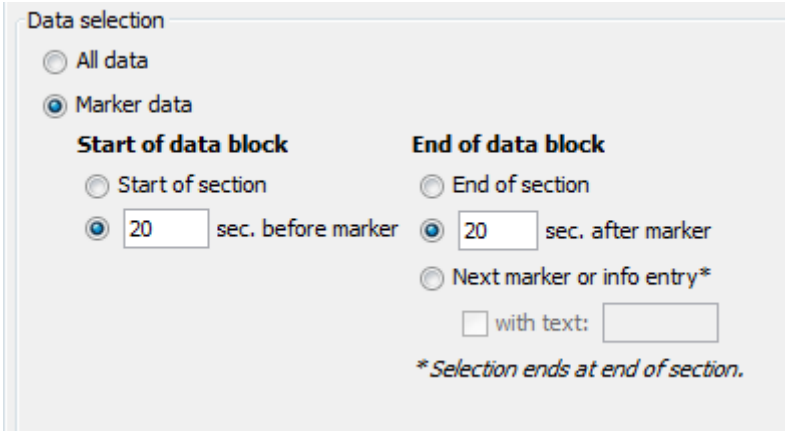


Figure 6.12: Data selection

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6.2 Converting data

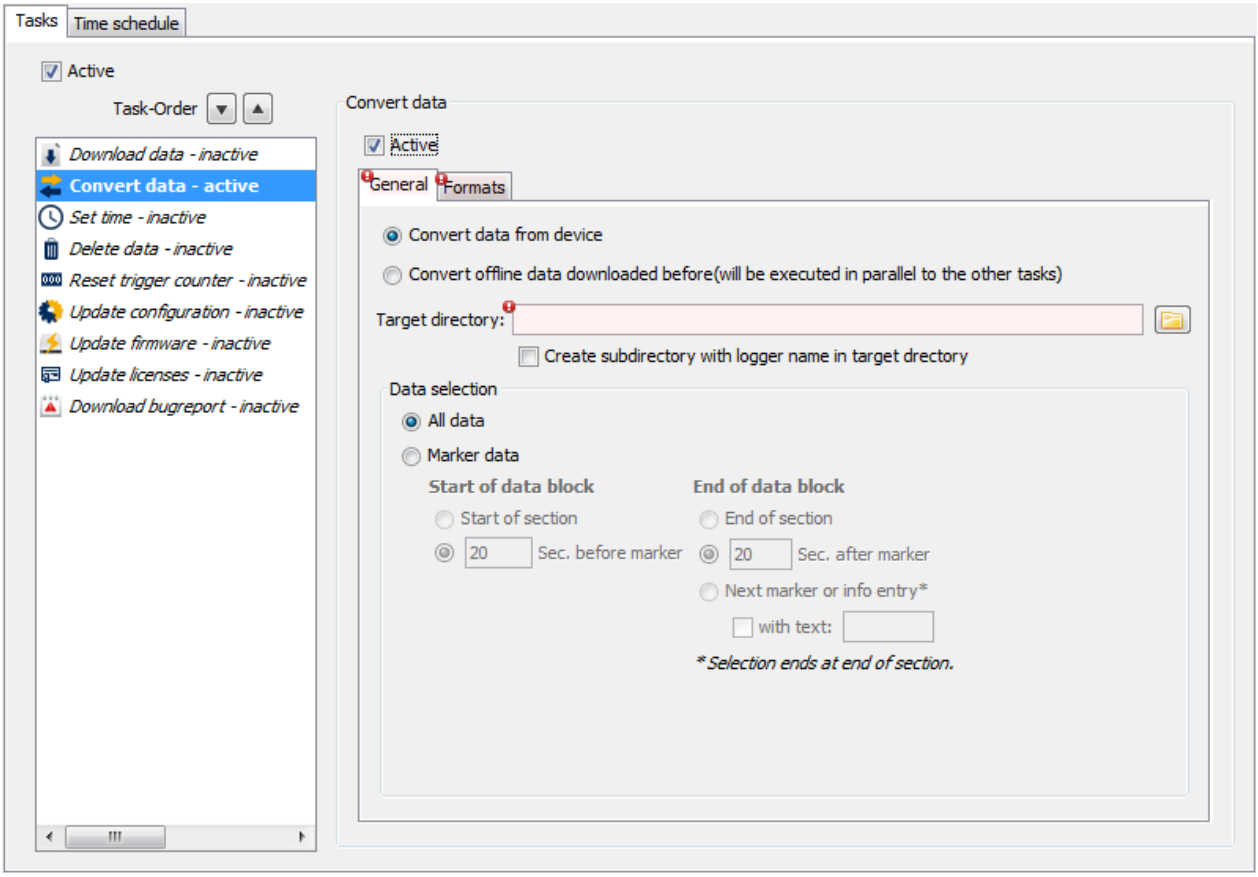


Figure 6.13: Task: Convert data

For converting data it is obligatory too to set a target directory in the tab **[General].** It is possible to create a sub directory with the logger name in the target directory to have a better overview about the data.

The data selection options are the same as those offered in the System Client.

It is also possible to convert offline data in Download Terminal. In this case the data will be downloaded in an earlier task and be converted later. This reduces the time, a device has to be connected to the network.

This option is only available if **[Download data]** is active. If **[Convert offline data]** is activated without **[Download data]** a note is shown.

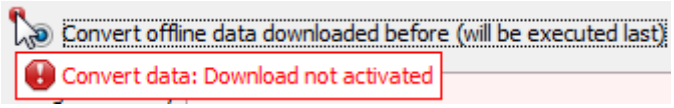


Figure 6.14: Warning when Download is not activated

In the tab **[Formats]** you can set the target formats for all channels.

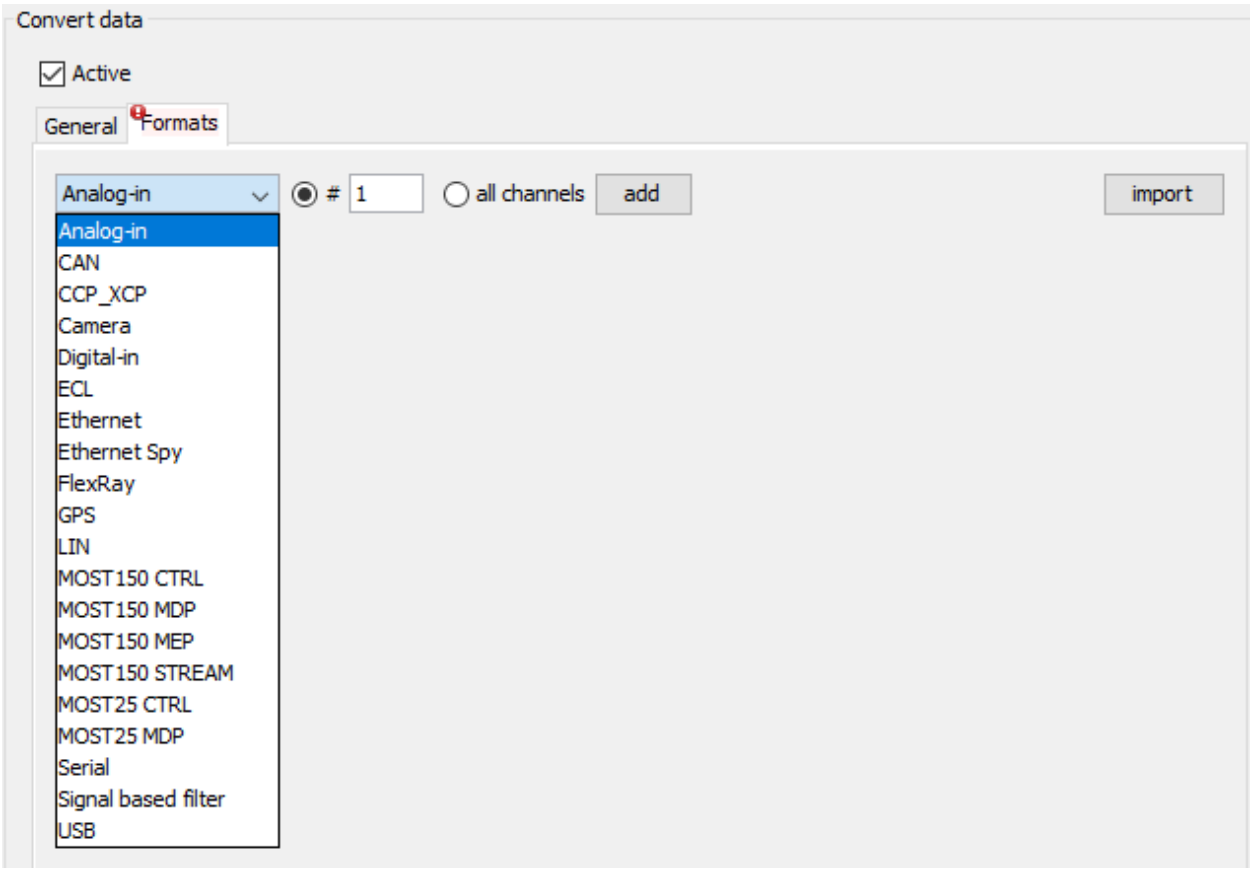


Figure 6.15: Available channels

Here you can choose as well single channels (CAN #1) as well as all channels of one interface (e.g. LIN)

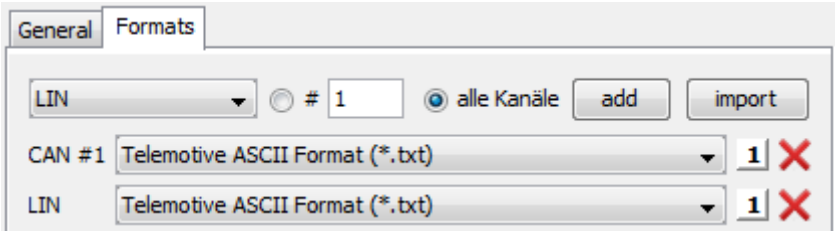


Figure 6.16: channel settings

In Download Terminal you can sort data by colour ID into one or different data files like this option is available in the client.

A click on the button with the 1 to the right of the channel selection opens the color assignment window.

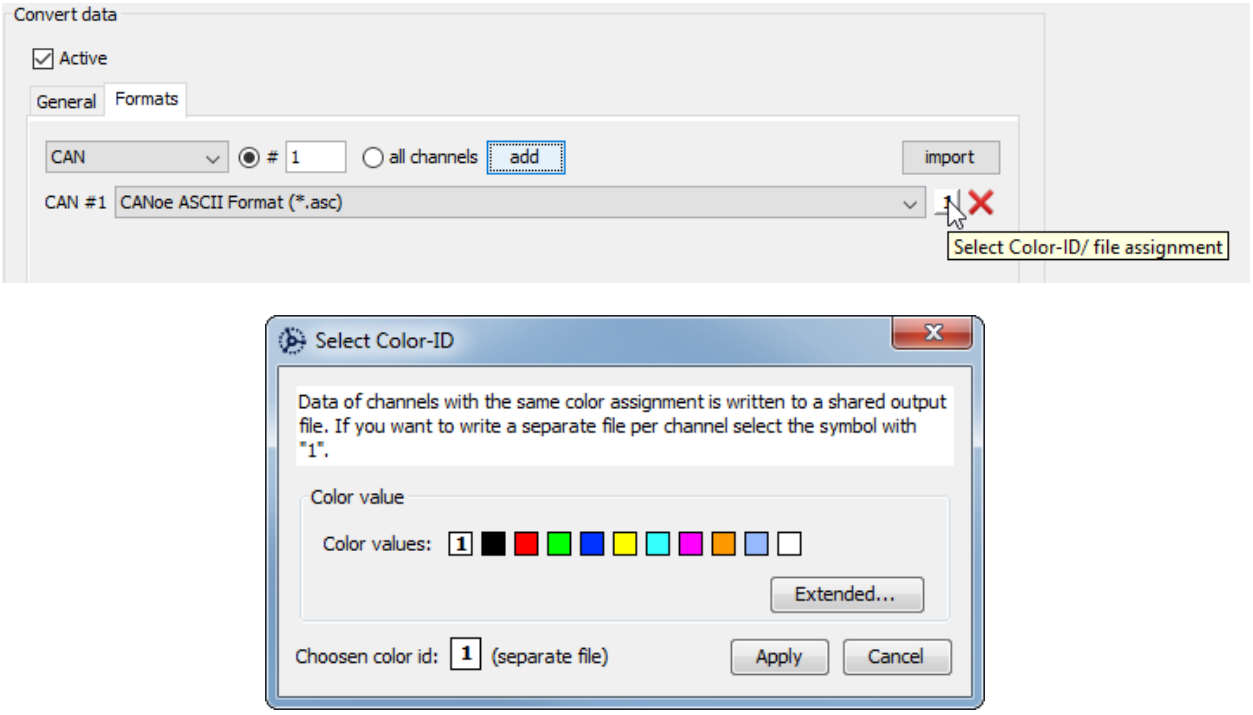
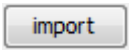


Figure 6.17: color ID

Over the button  it is possible to import settings which were set and exported earlier in the client.

6.3 Set time

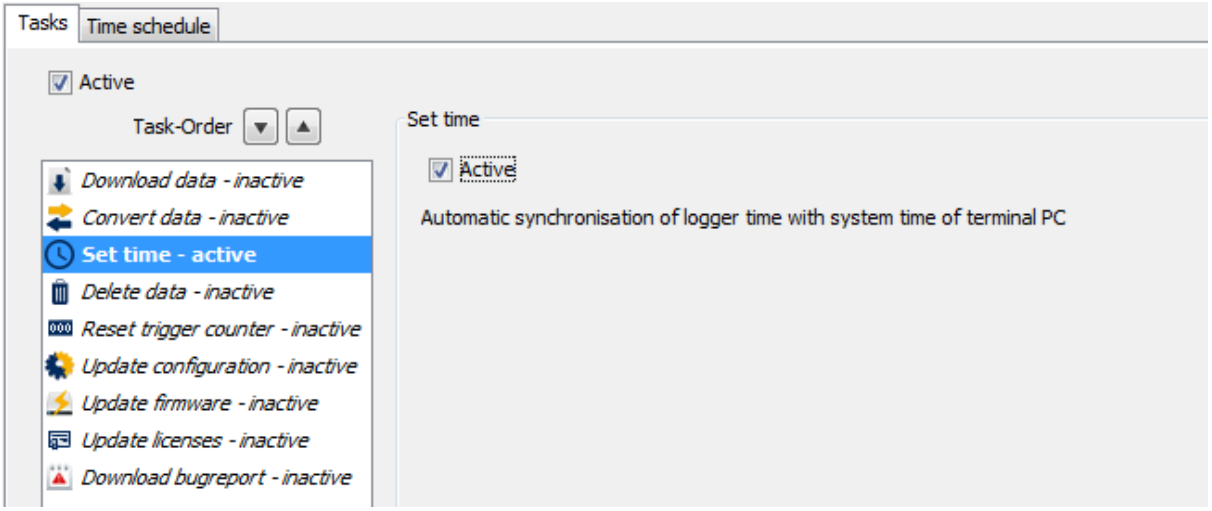


Figure 6.18: Task: Set time

To avoid time differences it is possible to set the time every time the device is connected to Download Terminal

6.4 Delete data

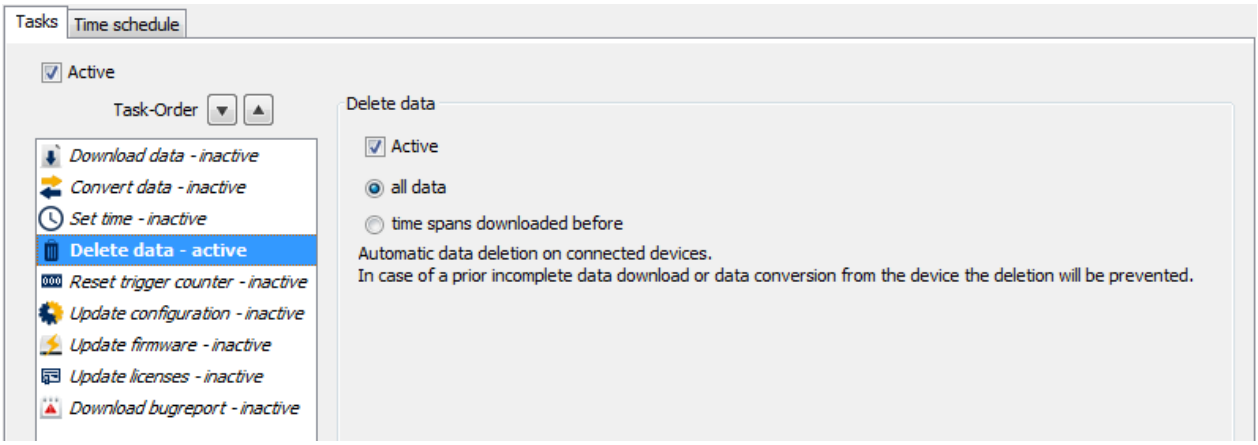


Figure 6.19: Task: Delete data

To get free memory space on the device it is possible to delete data on the device. The options are:

- all data
- time spans dowloaded before

In case the data download in an earlier task was not successful, the data will not be deleted.

6.5 Rest trigger counter

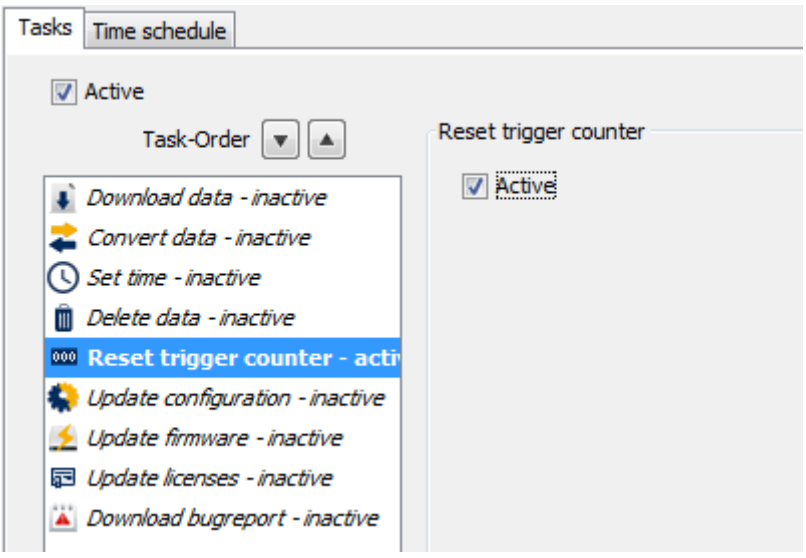


Figure 6.20: Task: Reset trigger counter

It is also possible to reset the trigger counter in Download Terminal.

6.6 Update configuration

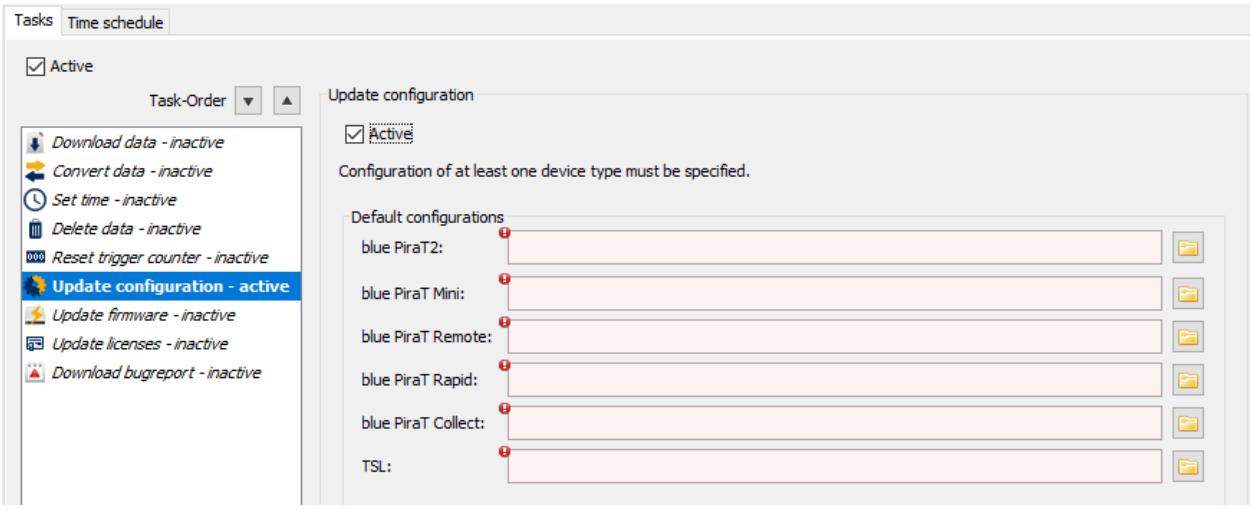


Figure 6.21: Task: Update configuration

Download Terminal can also update configurations of connected devices. You can define firmware packages for:

- BLUEPIRAT Rapid
- BLUEPIRAT Mini
- Remote Control Touch
- BLUEPIRAT2 / 5E
- BLUEPIRAT Remote
- TSL

For every kind of device a separate configuration can be assigned.

Note: The name of the device will not be changed because in this case all devices in a TSL cluster would get the same name!

6.6.1 Duplicate devices in a TSL network

In case a part of a TSL offline configuration fits on more than one device of an TSL network (hardware and available firmware feature match), the logger name is used as an additional criterion. The offline configuration part is saved to the logger whose logger name most closely matches the logger name in the offline configuration. Only the beginning of the name is decisive.

Example:

```
Offline                 Online
-----------------------------------------------
bPR1_100_123456    ->     bPR1_100_987654
bPR2_100_123456    ->     bPR2_555_987654
```

In principle both offline parts would fit on both online loggers. Since the first 9 characters of the logger name of the bPR1 match and only 3 characters of the bPR2, the bPR1 configuration is transferred to the logger bPR1_100_987654.

If the name does not allow a clear assignment, an error message is displayed and the configuration is not transferred.

6.7 Update firmware

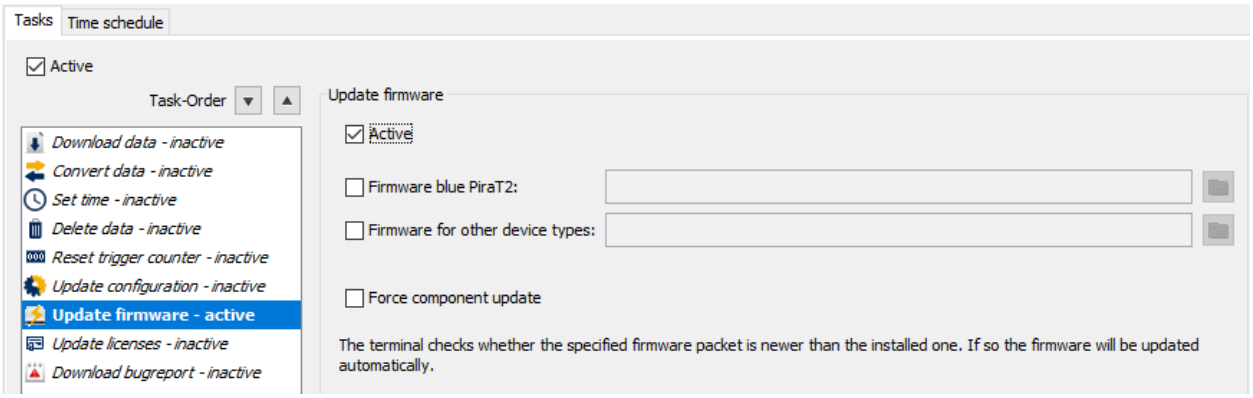


Figure 6.22: Task: Update firmware

The task **[Update firmware]** allows to update the firmware of every kind of devices. In the first step the type, and in the second step the file for the update has to be defined.

Please note that a separate firmware is selected for the BLUEPIRAT 2.

6.8 Update licenses

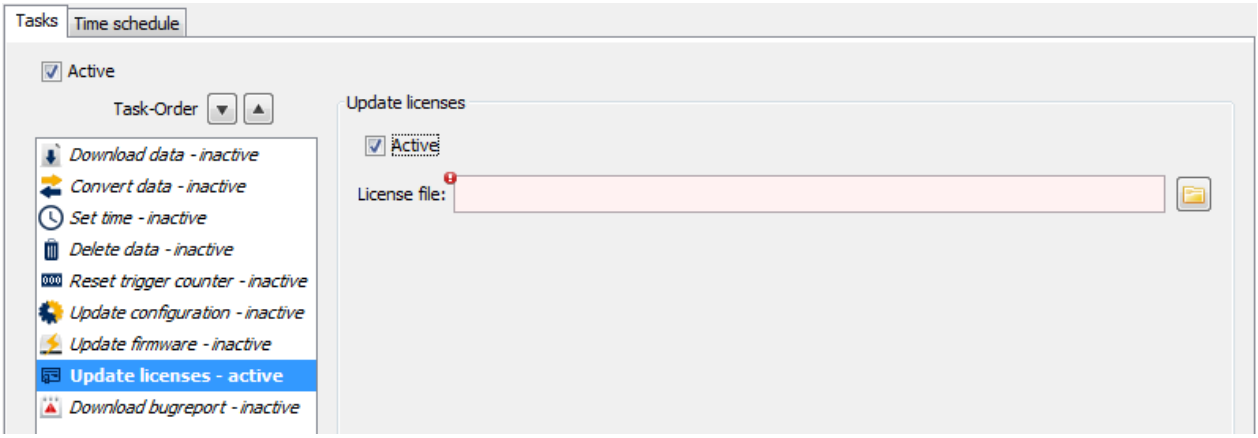


Figure 6.23: Task: Update licenses

When a license for a defined group is available, Download Terminal allows updating the license for all members of this group too. For that the license file has to be selected in this field.

6.9 Download bugreport

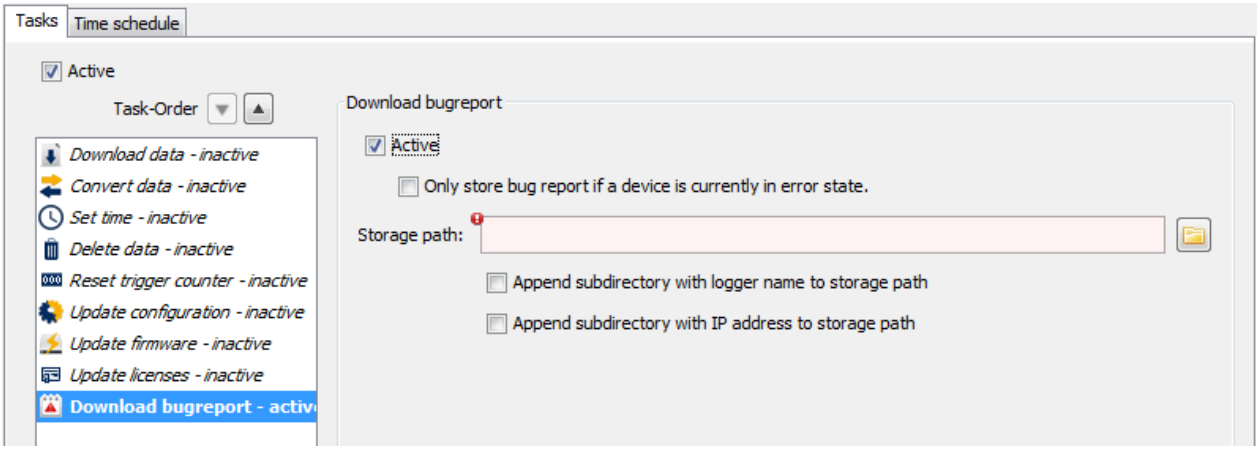


Figure 6.24: Task: Download bugreport

When a logger is connected to Download Terminal, a bugreport can be downloaded from the logger and saved to a defined directory automatically. There can be set that this only will be done when the device reports an error. Additional a sub folder with the name of the logger or is IP address can be implemented.

6.10 Task order

The order of the tasks for a defined group can be set by using the menu at the top of the task list. Mark a task and move it by using the two arrows to the place where it is needed.

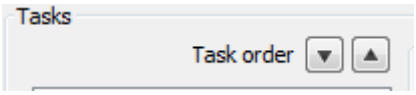


Figure 6.25: Setting the Task order

6.11 Saving the group

If all settings are done and correct, the group can be saved by using the button **[OK].** For saving the settings in between, please click on **[Apply]**.

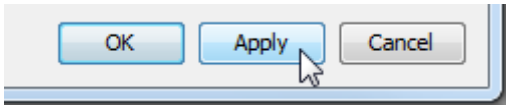


Figure 6.26: Saving the group

Note:
The group can't be saved as long as in one of the active tasks an error is shown!

6.12 Administrating groups

When a group is saved, it can be duplicated by the button **[Duplicate group]** to create a new group with similar settings and different members.

Groups which will never been used can be deleted by **[Remove group].**

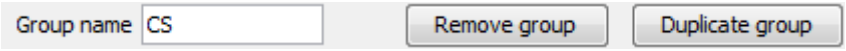


Figure 6.27: Administrating groups

To create a totally new group, please use the button **[+]** to open one more tab for a new group.

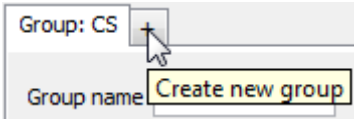


Figure 6.28: Creating a new group

6.13 Time schedule

When all tasks are defined, a time schedule for the doing can be activated, so that e.g. in a test environment, wher the devices are reachable permanently, the task will be done at specified times only.

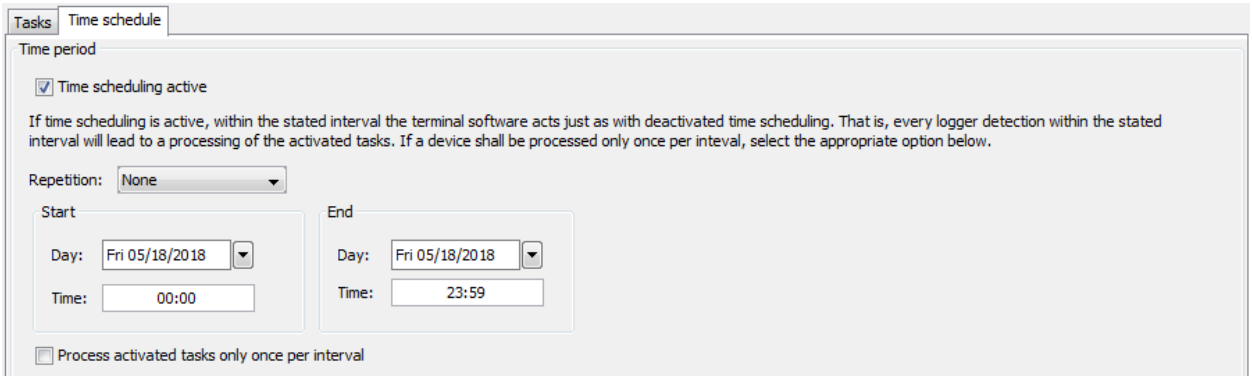


Figure 6.29: Activating Time schedule

The time schedule can be set to given times and a repetition can be set to *__None__*, *__Daily__* or ***Weekly*.**

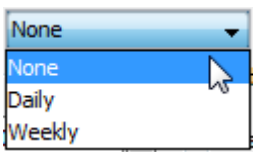


Figure 6.30: setting the repetition

7 Starting the Download Terminal

The settings window is closing after saving the group and the user sees the terminal window.

In the upper right corner there's a link to this **manual.**

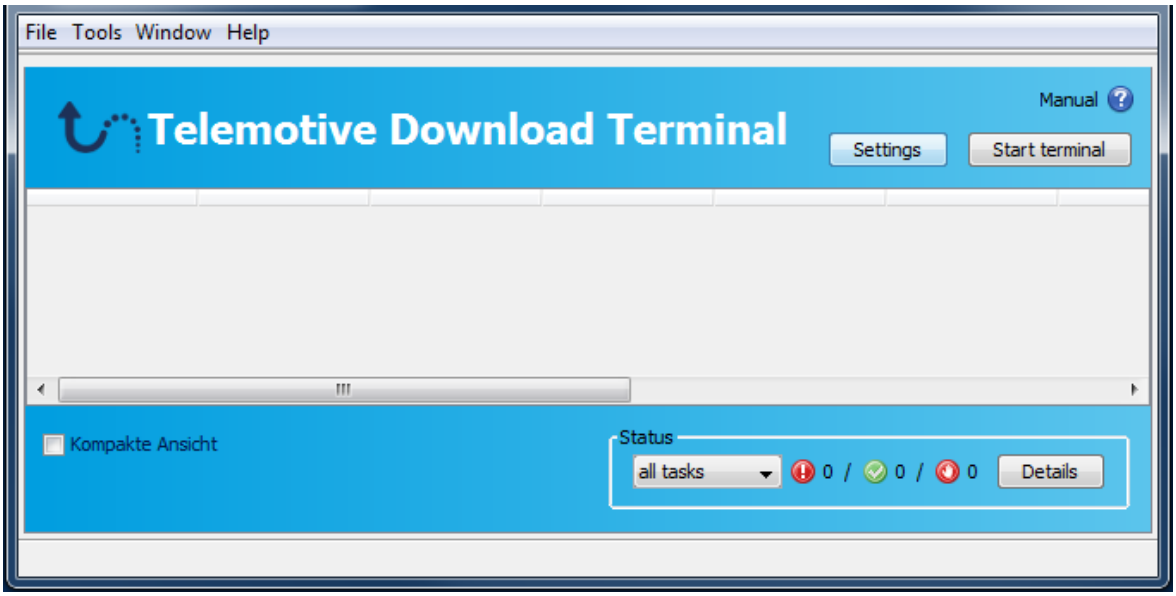
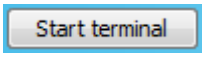


Figure 7.1: The Terminal window

Ba activating the button 

the terminal is starting and is waiting to identify devices in the network.

Devices without a valid license are not recognized by Download Terminal!

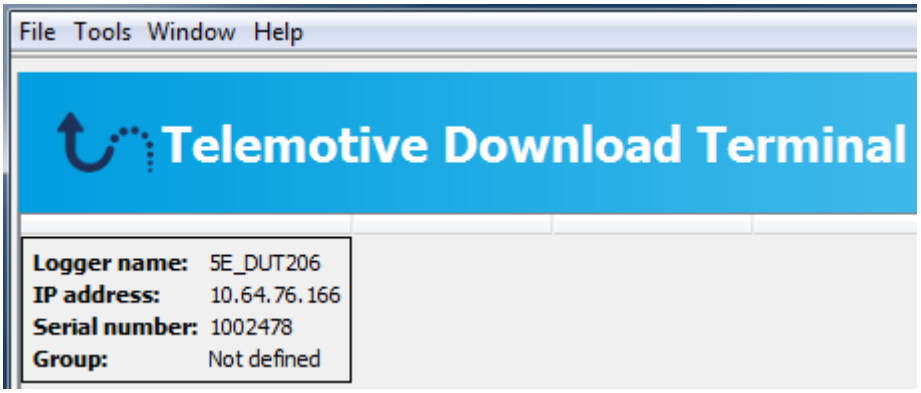


Figure 7.2: An identified device which is in no group

When Download Terminal identifies a device, which is in none of the configured groups, the background of the device information is still grey. The device information shows these information:

- Logger name
- IP address
- Serial number
- Group
- A note, when the device is blocked by another user

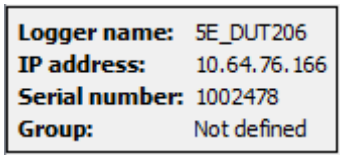


Figure 7.3: Device information

If there are too many devices in the list the ist can be shown in a compact version where only the logger name and IP address are shown. To activate this option the setting for **[Kompakte Ansicht]** has to be marked.

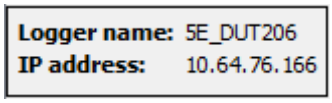


Figure 7.4: Device information - compact view

When a device is recognized by Download Terminal and identified as a member of a group, the entired tasks start to run automatically.

The background of the device is shown in green and the configured tasks are shown in the order they will be done.

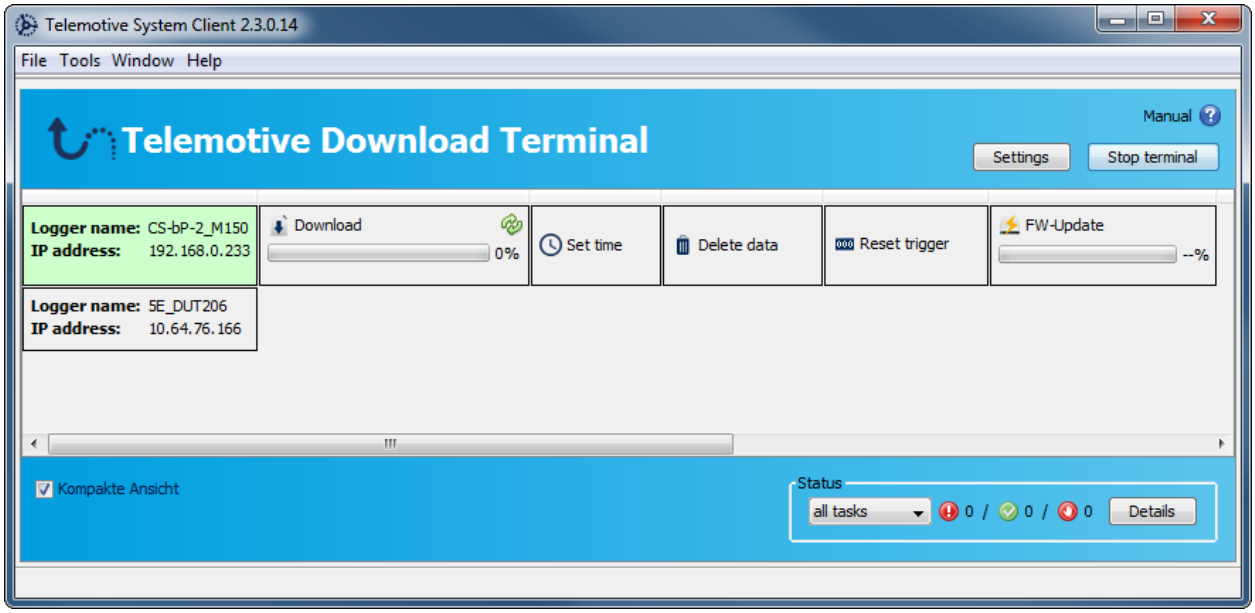


Figure 7.5: Identified from a defined group

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The processing of the tasks is shown step by step in the terminal window. If a task is done the background of the task turned into green.

Figure 7.6: The processing of a task

When errors occur during the tasks are processed, the background of the task is marked in red so that errors are shown in an easy way.

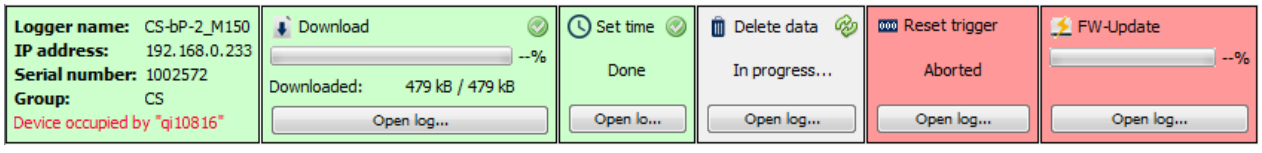

Figure 7.7: An error during processing

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Additional a counter shows the number of tasks which were done including the status:

- failed tasks
- successful tasks
- prevented tasks

Figure 7.8: Status display

The status display can be filtered by several time settings:

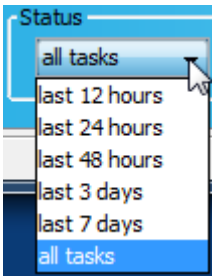

Figure 7.9: Filtering the status display

Via the button Details an detailed log can be displayed. This Terminal history is divided into 2 parts of the window. On the left side a table of all processed tasks is shown with the last status of every task for every device. By marking one of the devices the complete Terminal log is shown on the right side of the window

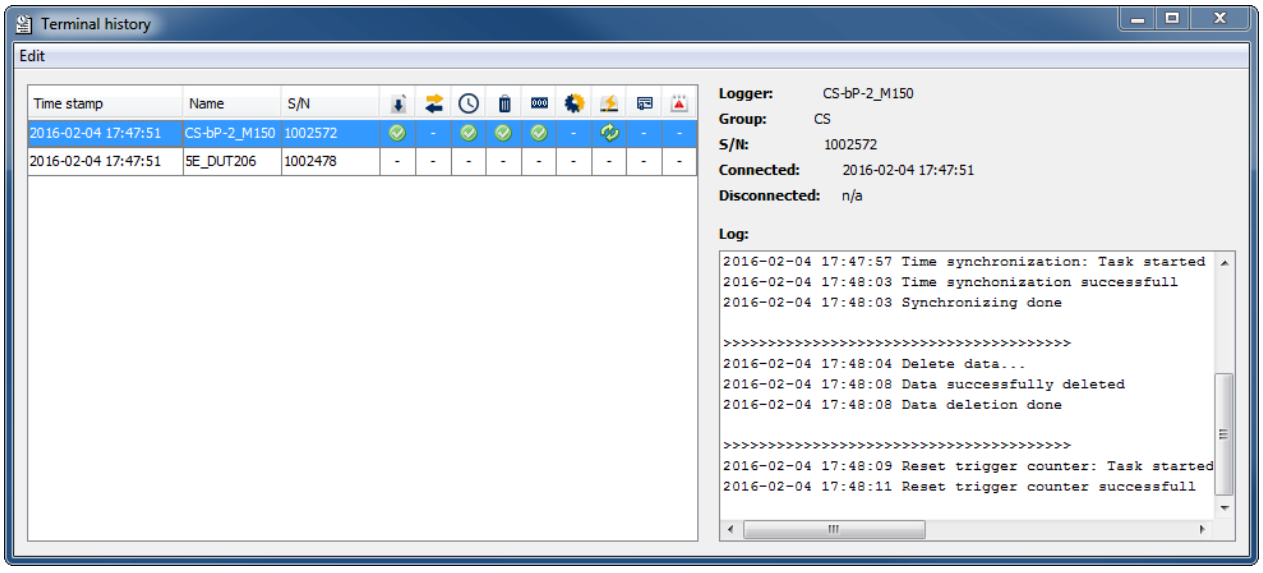

Figure 7.10: Terminal history

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These log files can help to see exactly what happened to every device and if there were problems in the processing of the tasks.

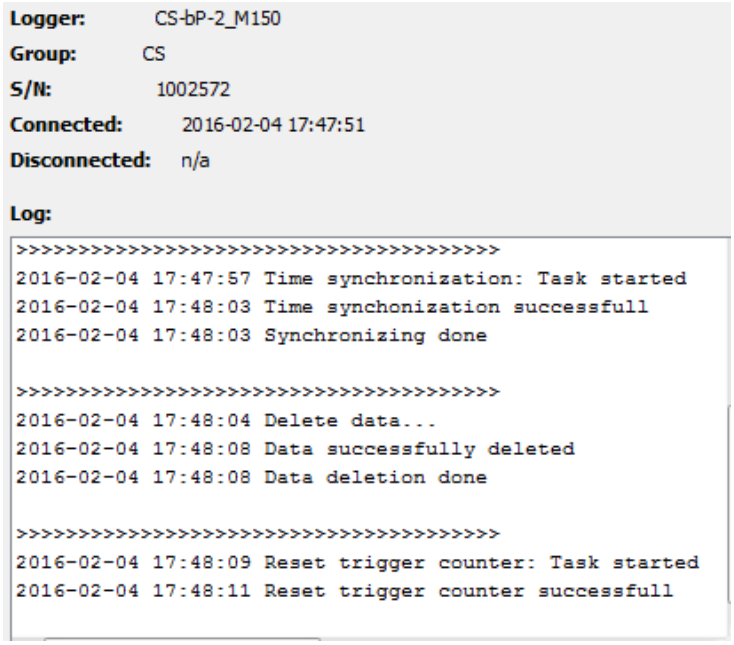


Figure 7.11: Look at the log

The whole terminal history can be deleted by the menu [Edit] to get a better overview of the tasks which were done at last.

You can choose even if all entries should be deleted by using => **[Delete entire history]** or define a special time for entries which are older than:

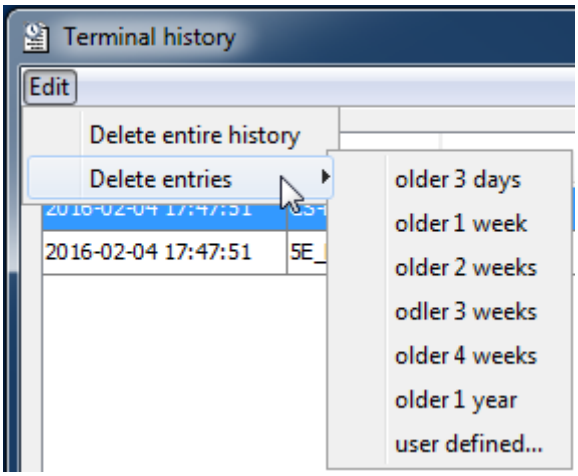
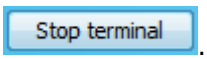


Figure 7.12: deleting the Terminal history

Under the point **[user defined]** it is possible to set a exact date to delete all logs which are older than this date.

The Download Terminal can be stopped by the button 

.

To go back to the **System Client** view, use **[Tools]** and unmark the entry **[Download Terminal]**

8 Abbreviations

Kürzel / abbreviation	Bedeutung / meaning
BLUEPIRAT	**P**rocessing **I**nformation **R**ecording **A**nalyzing **T**ool
bP	**BLUEPIRAT**
bP2	**BLUEPIRAT2**
bP2 5E	**BLUEPIRAT2** 5E
bPMini	**BLUEPIRAT** Mini
RC Touch	**R**emote **C**ontrol **T**ouch
bP Remote	**BLUEPIRAT R**emote
A2L	**A**SAM MCD-**2** MC **L**anguage
AE	**A**utomotive **E**lectronics
ACK	**ACK**nowledged
CAN	**C**ontroller **A**rea **N**etwork
CCP	**C**AN **C**alibration **P**rotocol
CF	**C**ompact **F**lash
CRO	**C**ommand **R**eceive **O**bject
DAQ	**D**ata **A**cquisition
DTO	**D**ata **T**ransmission **O**bject
ECL	**E**lectrical **C**ontrol **L**ine
ECU	**E**lectronic **C**ontrol **U**nit
FIBEX	**FI**eld **B**us **Ex**change Format
FW	**F**irm**w**are
GMT	**G**reenwich **M**ean **T**ime
INCA	**IN**tegrated **C**alibration and **A**pplication Tool
LAN	**L**ocal **A**rea **N**etwork = Netzwerk
LIN	**L**ocal **I**nterconnect **N**etwork
MAC	**M**edia **A**ccess **C**ontrol
MCD	**M**easure **C**alibrate **D**iagnose
MDX	**M**eta **D**ata E**X**change Format
MEP	**M**OST **E**thernet **P**acket
MOST	**M**edia **O**riented **S**ystems **T**ransport (www.mostnet.de)
ODT	**O**bject **D**escriptor **T**able
ODX	**O**pen **D**ata E**X**change
OEM	**O**riginal **E**quipment **M**anufacturer
PHY	**PHY**sical Bus Connect
PW	**P**ass**w**ort
RX	**R**eceiver Data
SD	**S**ecure **D**igital
SFTP	**S**ecure **F**ile **T**ransfer **P**rotocol
SHA	**S**ecure **Ha**sh
SSL	**S**ecure **S**ockets **L**ayer
TCP/IP	**T**ransmission **C**ontrol **P**rotocol/**I**nternet **P**rotocol
TLS	**T**ransport **L**ayer **S**ecurity
TMP	**T**ele**m**otive **P**acketformat
TSL	**T**elemotive **S**ystem **L**ink
UDP	**U**ser **D**atagram **P**rotocol
USB	**U**niversal **S**erial **B**us

UTC	**U**niversal **T**ime, **C**oordinated
Wi-Fi	**Wi**reless **Fi**delity
WLAN	**W**ireless **L**ocal **A**rea **N**etwork
XCP	Universal Measurement and **C**alibration **P**rotocol

Table 8.1: Abbreviations

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