






















Telemotive Download Terminal - User Guide

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2 PRODUCT LIABILITY

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[General Terms and Conditions of Sale and Delivery Telemotive AG.pdf](#)

3 Overview

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

- blue PiraT2
- blue PiraT2 5E
- blue PiraT Mini
- Remote Control Touch
- blue PiraT Remote

The Telemotive Download Terminal in the Telemotive 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 user guide describes the configuration and usage of this feature. The general configuration is described in the user guides of the used data logger as well as the Telemotive System Client, which is valid together.

This document refers to **firmware version 03.04.01** and the **Telemotive System Client** from **version 3.4.1**. 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 the Telemotive ServiceCenter. (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.

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 caught 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.

[In-
dex](#)

4 System requirements

Control Unit

A Windows based Laptop or PC is needed to configure the devices by **Telemotive System Client**. It also allows to save the recorded data and to use them offline later.

Telemotive System Client

The software client is used for configuring the data logger as well as downloading the recorded data or convert these into your needed file format. An firmware update can be performed by the **Telemotive System Client** too to ensure that your devices are always up to date.

blue PiraT2 / blue PiraT2 5E / blue PiraT Mini

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.

The **blue PiraT2** is our top-class all-in-one data logger. Seven models cover a wide range of interfaces.

Additionally, the **blue PiraT2 5E** offers improved power management and power backup, five integrated Ethernet ports and super-fast start-up behavior. The blue PiraT2 can be flexibly expanded via [Telemotive System Link](#).

The **blue PiraT 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 flexibly expanded to one cluster and therefore handled very easily by using [Telemotive System Link](#).

Remote Control Touch (optional)

Operate your blue PiraT Mini or blue PiraT2 data loggers safely and comfortably from the driver's or passenger seat. Via Telemotive System Link our new remote control becomes part of your logger network. One remote control can handle all connected loggers.

blue PiraT 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.

License

For the additional feature **Telemotive 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 guide we offer the main manuals for our client as well as for the different data logger generations in our ServiceCenter at <https://sc.telemotive.de/bluepirat>.

User manual for the Telemotive System Client

https://sc.telemotive.de/4/uploads/media/TelemotiveSystemClient_UserManual.pdf

User manual for blue PiraT2 / blue PiraT2 5E

https://www.telemotive.de/4/uploads/media/blue_PiraT2_UserManual.pdf

User manual for blue PiraT Mini

https://www.telemotive.de/4/uploads/media/blue_PiraT_Mini_UserManual.pdf

User manual for Remote Control Touch

https://sc.telemotive.de/4/uploads/media/RCTouch_UserGuide.pdf

User manual for blue PiraT Remote

https://sc.telemotive.de/4/uploads/media/blue_PiraT_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.

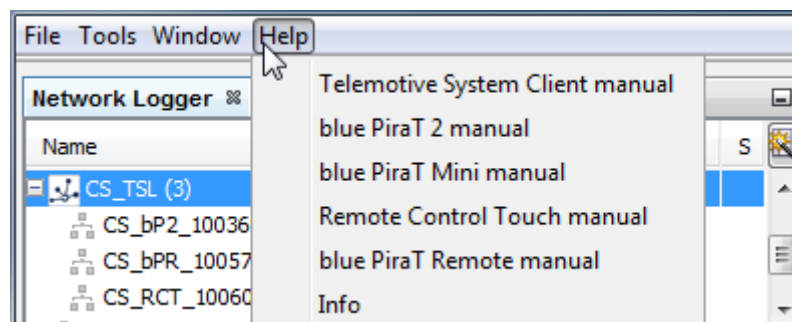


Figure 4.1: links to the manuals

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

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5 Starting Telemotive Download Terminal

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

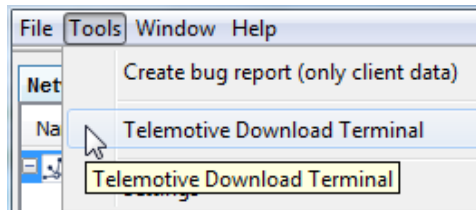


Figure 5.1: Starting Telemotive Download Terminal

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

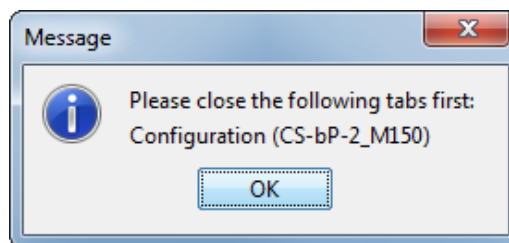


Figure 5.2: Message if tabs are open

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

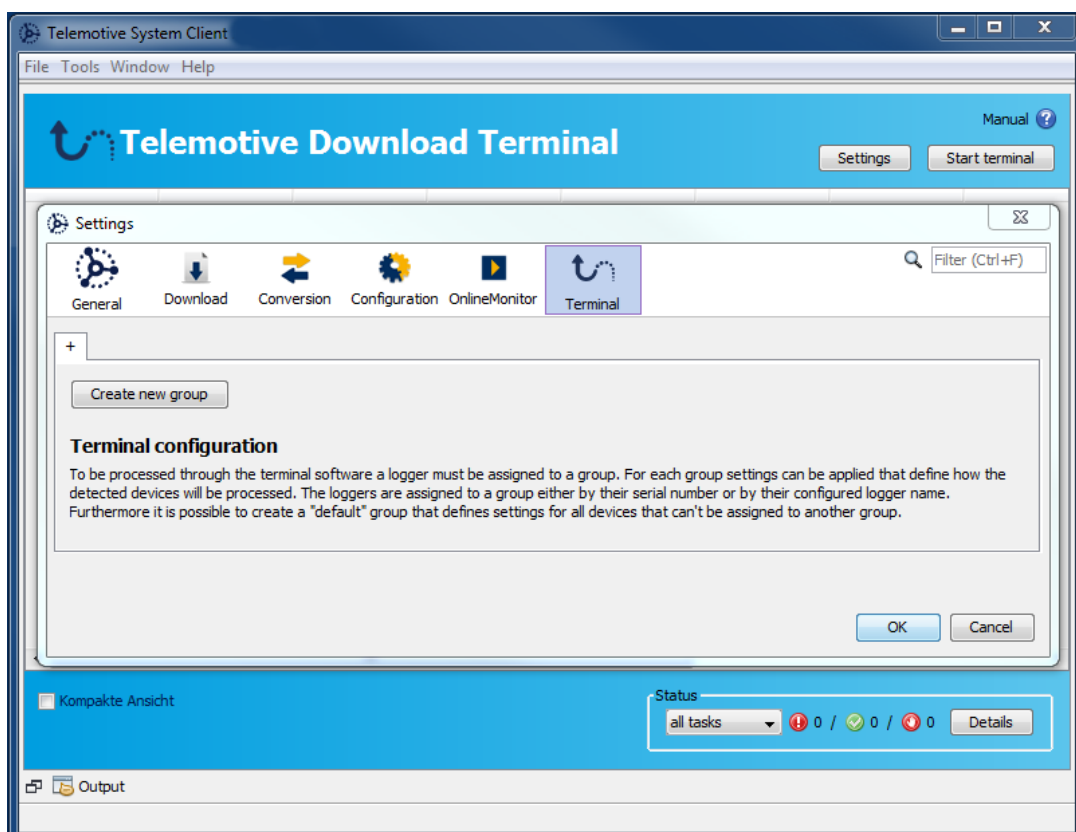


Figure 5.3: Starting Telemotive Download Terminal

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

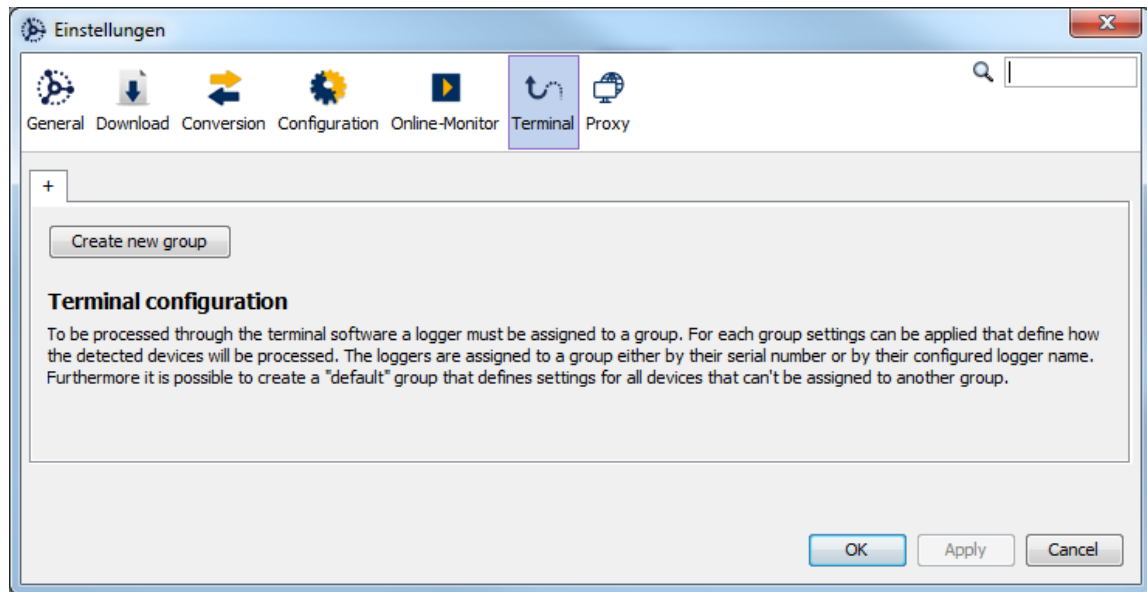
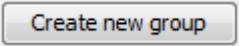


Figure 5.4: Settings for Telemotive Download Terminal

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

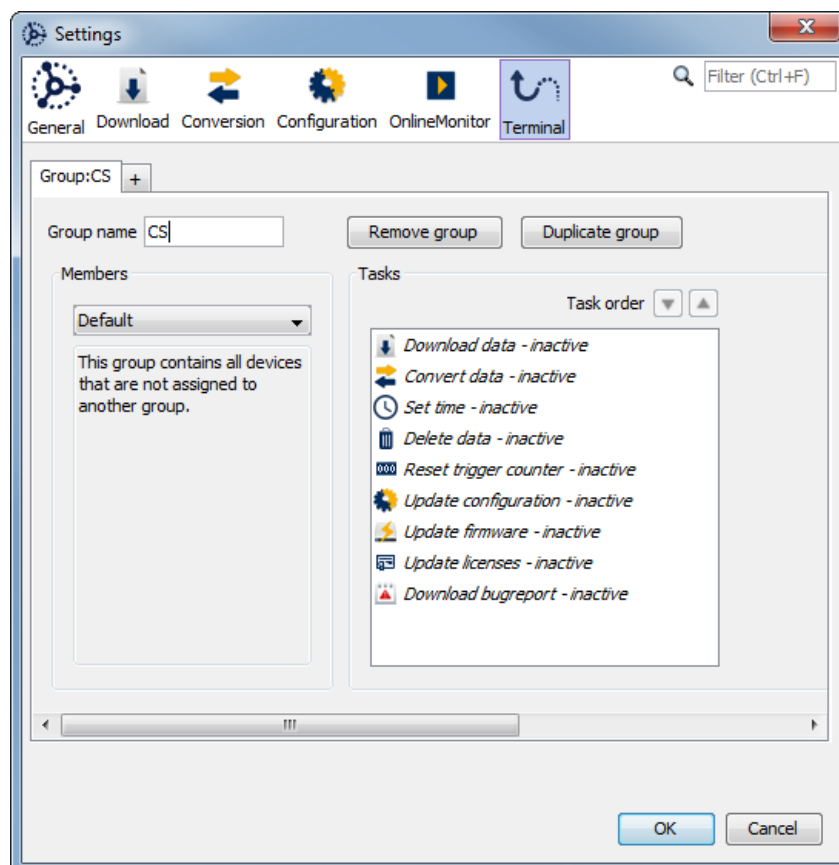


Figure 5.5: Creating a new group

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

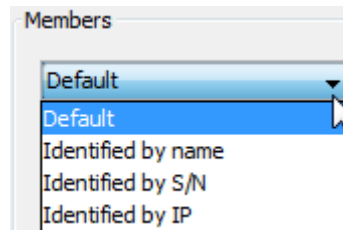
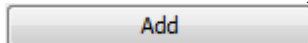


Figure 5.6: Assigning members to a group

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



into the list.

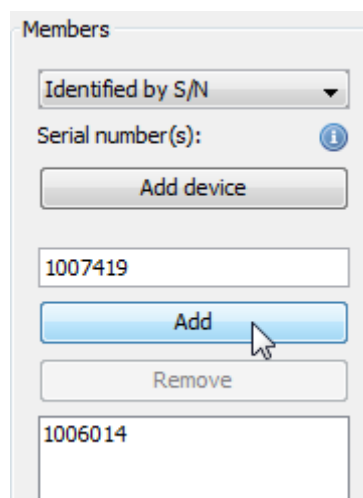
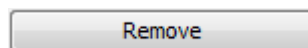


Figure 5.7: Adding the members

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.

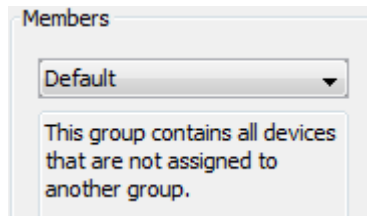


Figure 5.8: Members: default

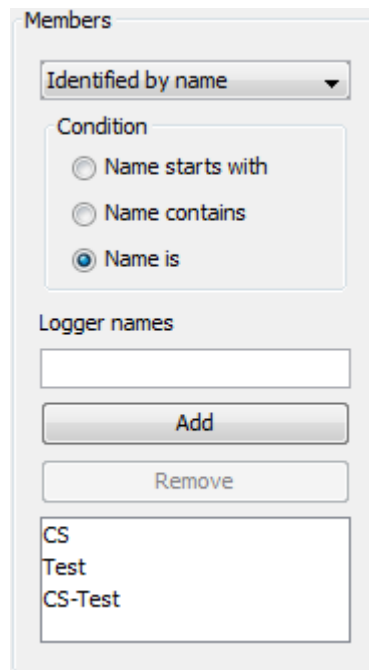
Attention:

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 Telemotive Download Terminal identifies this device.

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5.1.2 Identified by name

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.

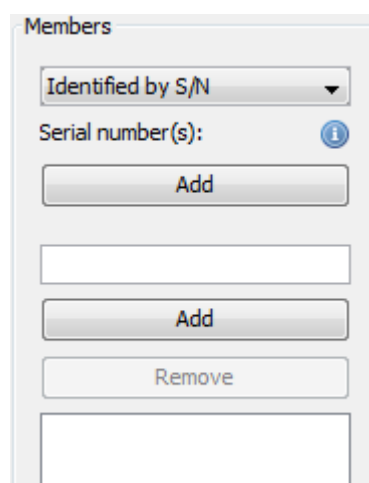


The screenshot shows a dialog box titled "Members". At the top, there is a dropdown menu set to "Identified by name". Below this is a "Condition" section with three radio buttons: "Name starts with", "Name contains", and "Name is", with "Name is" selected. Underneath is a "Logger names" section with an empty text input field, an "Add" button, and a "Remove" button. At the bottom, a list box contains the entries "CS", "Test", and "CS-Test".

Figure 5.9: Members: identified by name

5.1.3 Identified by S/N

Their serial number can identify members too.




The screenshot shows a dialog box titled "Members". At the top, there is a dropdown menu set to "Identified by S/N". Below this is a "Serial number(s):" label with an information icon. There are two "Add" buttons and one "Remove" button. The bottom part of the dialog is currently empty.

Figure 5.10: 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.

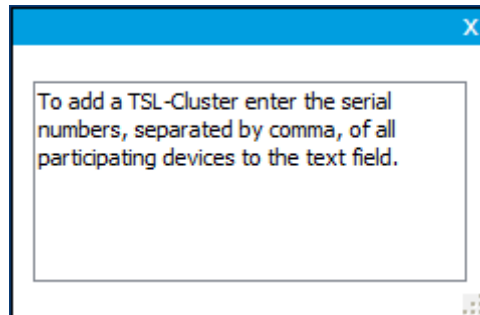


Figure 5.11: Note for adding a TSL-Cluster

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.

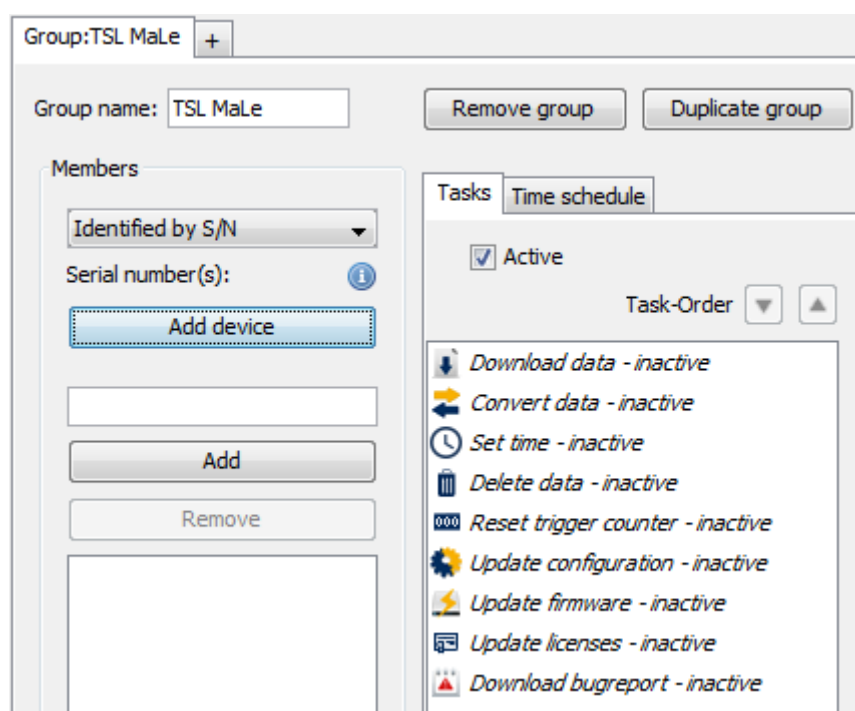


Figure 5.12: Button [Add device]

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

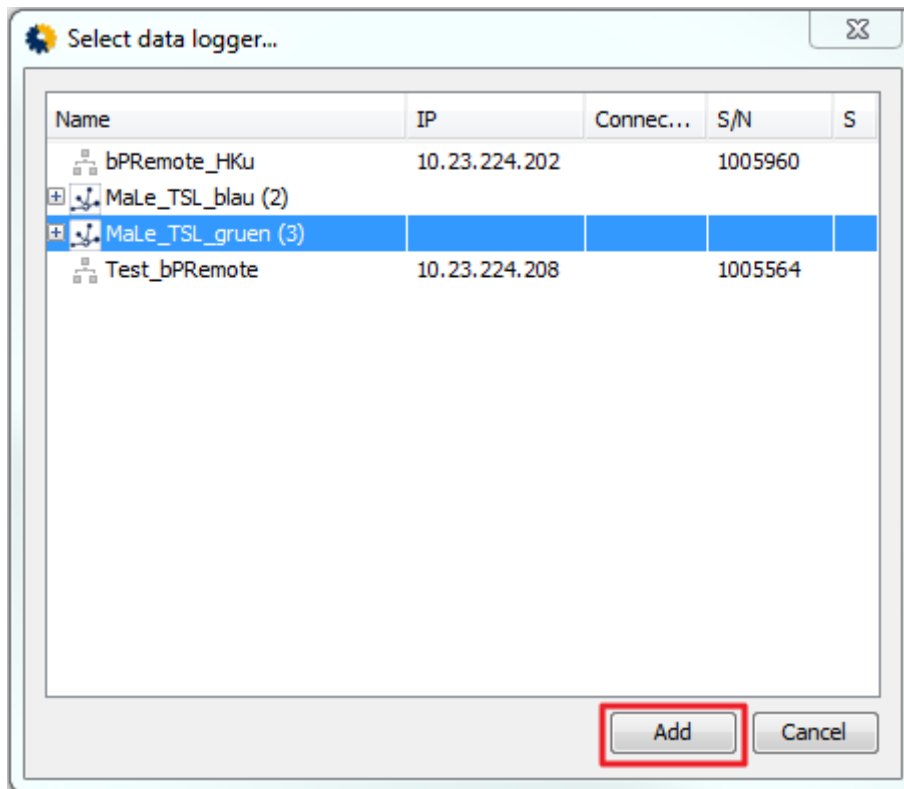


Figure 5.13: Selecting a TSL-Cluster

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

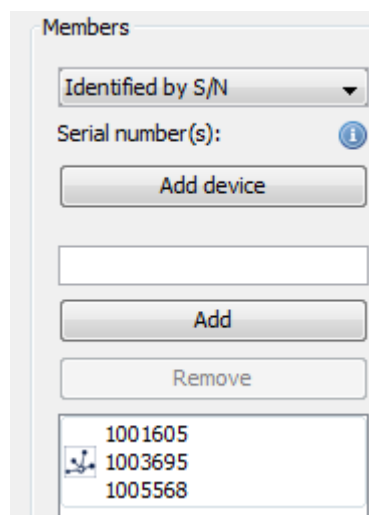
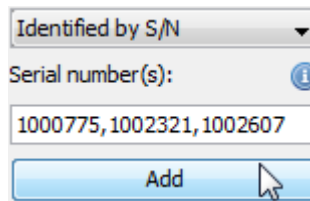


Figure 5.14: Display of a TSL-Cluster

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.



Identified by S/N
Serial number(s):
1000775,1002321,1002607
Add

Figure 5.15: Adding a TSL-Cluster via serial number input

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

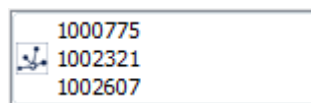


Figure 5.16: TSL-Cluster in the list

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

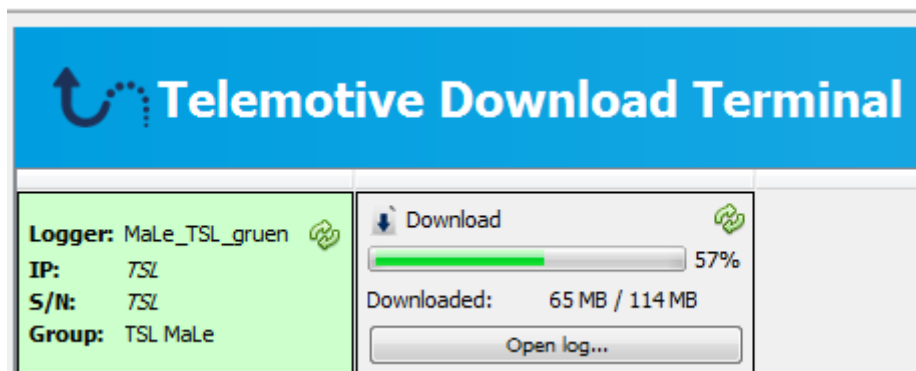


Figure 5.17: Shown name of a TSL-Cluster

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.

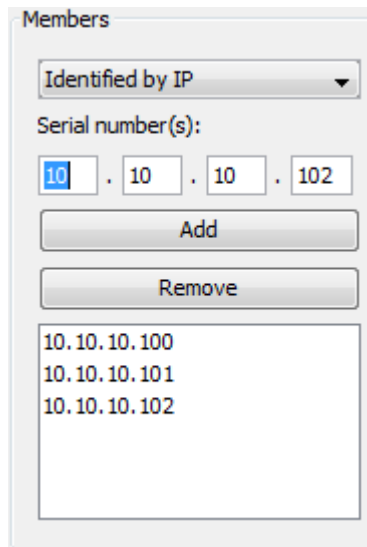


Figure 5.18: Identified by IP

5.1.5 Terminal IP address

The Telemotive data logger have a feature called “**Telemotive 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 Telemotive 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]**.

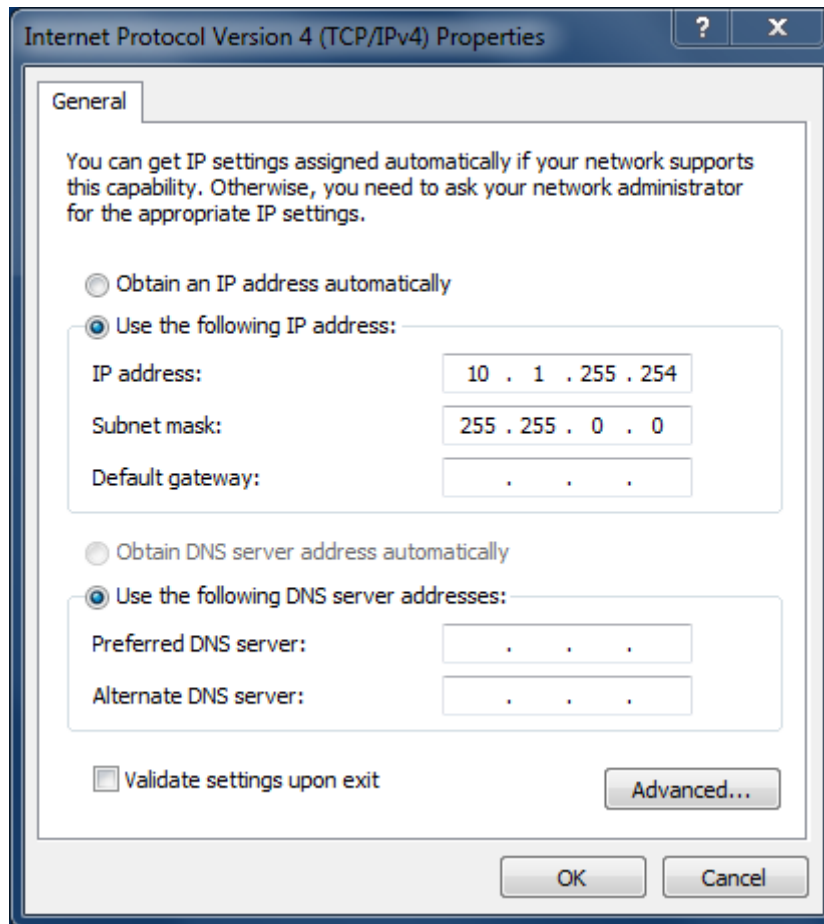


Figure 5.19: Change IP settings

When this is done the Telemotive 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 **Telemotive Download Terminal** mode.

5.1.6 Activation & deactivation of groups

Every group can be activated or deactivates separately.

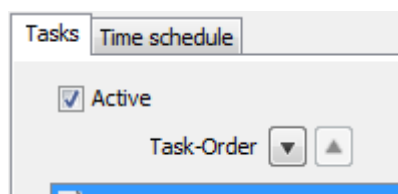


Figure 5.20: Activation & deactivation of groups

6 Available tasks



Every group can contain a list of tasks which will be executed when a device is recognized by **Telemotive 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 all 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

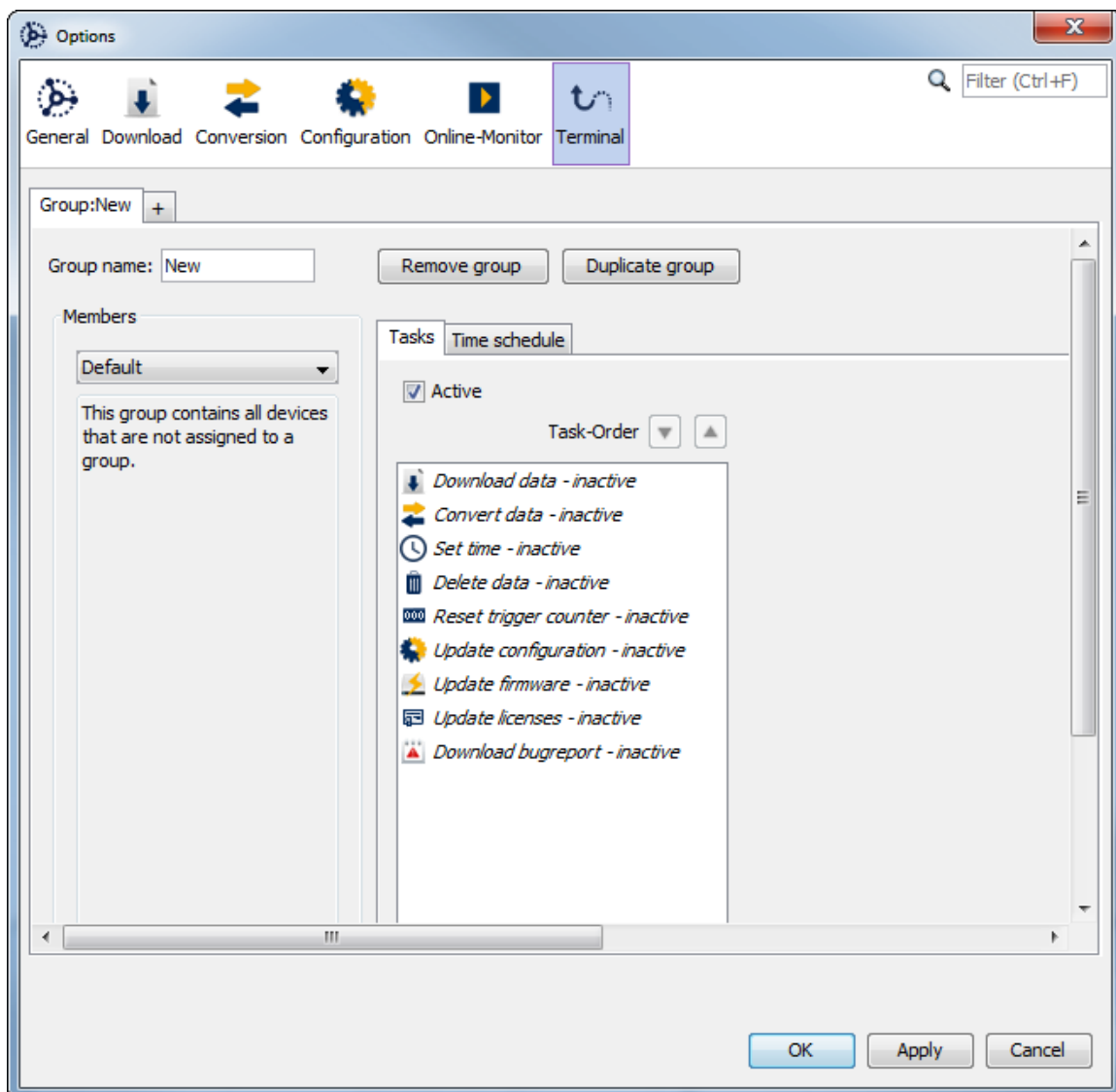
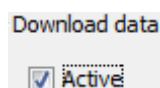


Figure 6.1: The task list

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



6.1 Download data

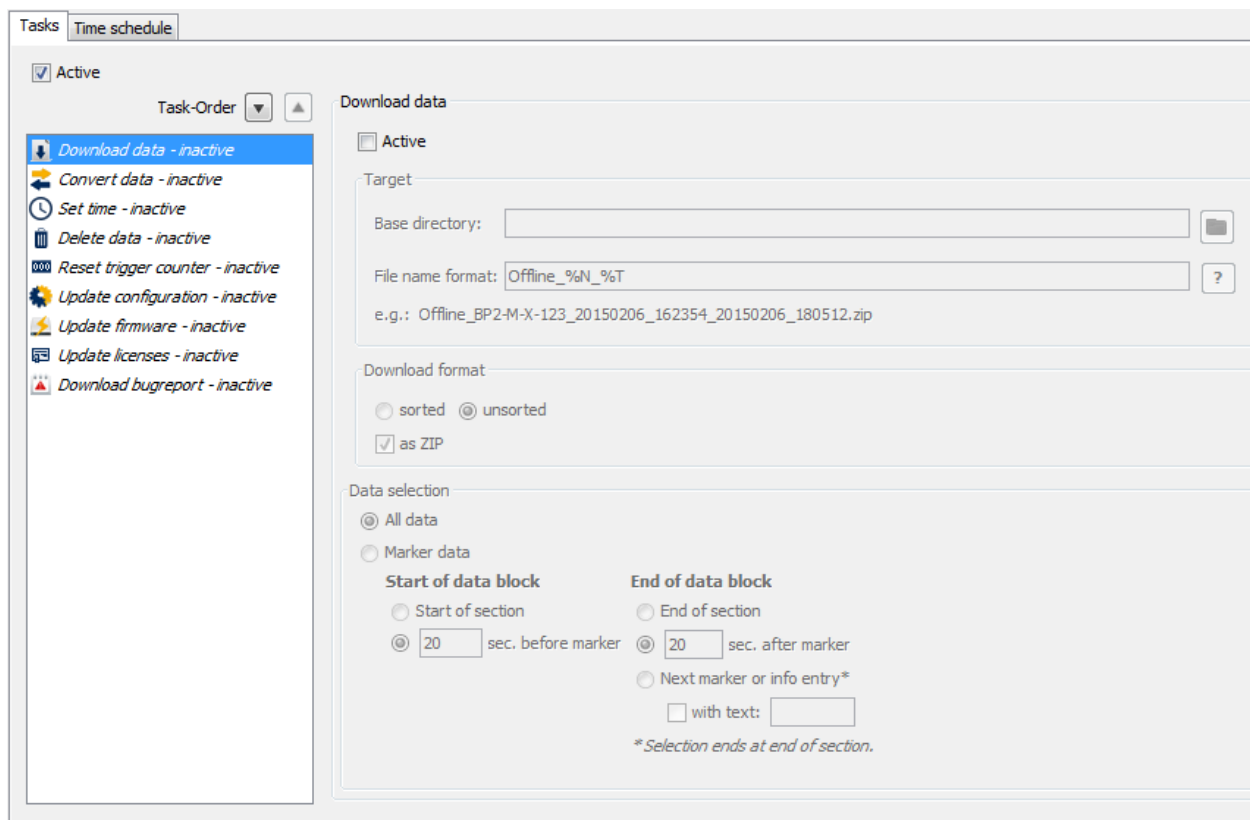


Figure 6.2: Task: Download data

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.

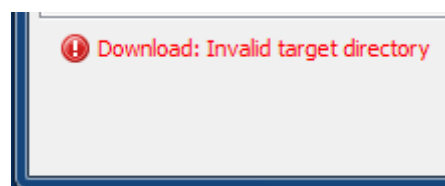


Figure 6.4: Note at the footer

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. "[2015-02-06]"
- %N, %n Device name
- %T, %t Start and end time
- %S, %s Device serial number

Example:

%N\Offline_%T -> Device name\Offline_20150206_154312_20150206_164802.zip

Note:

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

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

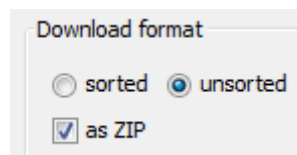


Figure 6.5: Download format

and the data you want to download.

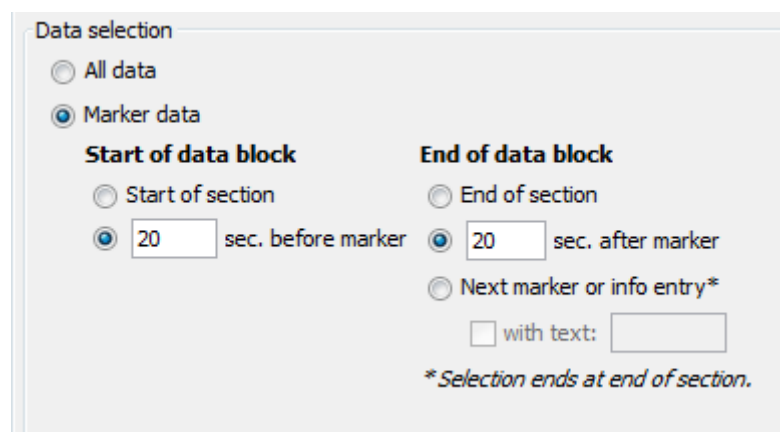


Figure 6.6: Data selection

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6.2 Converting data

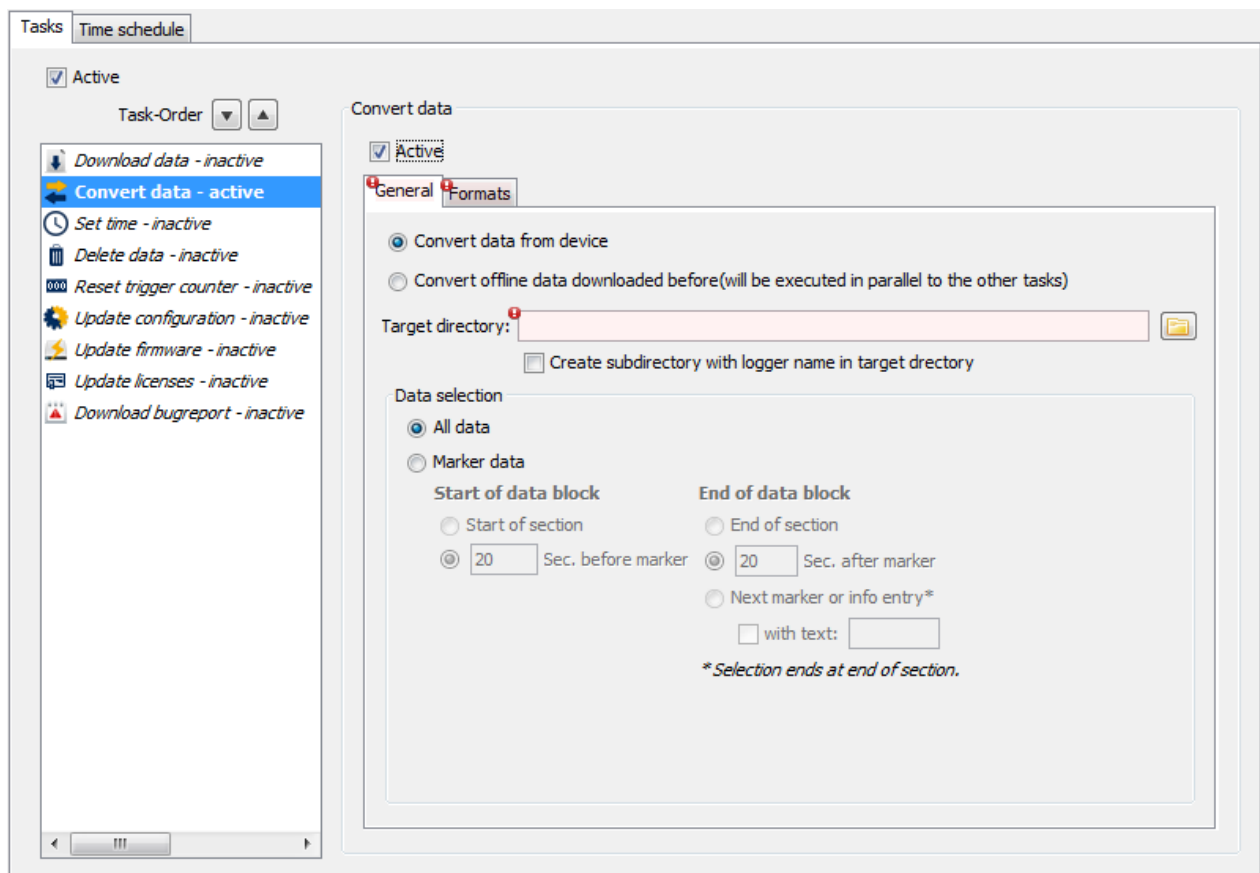


Figure 6.7: Task: Convert data

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 Telemotive System Client.

It is also possible to convert offline data in Telemotive 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.

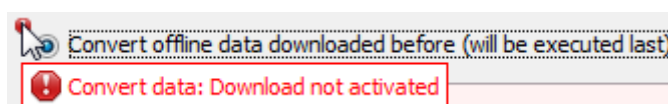


Figure 6.8: Warning when Download is not activated

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

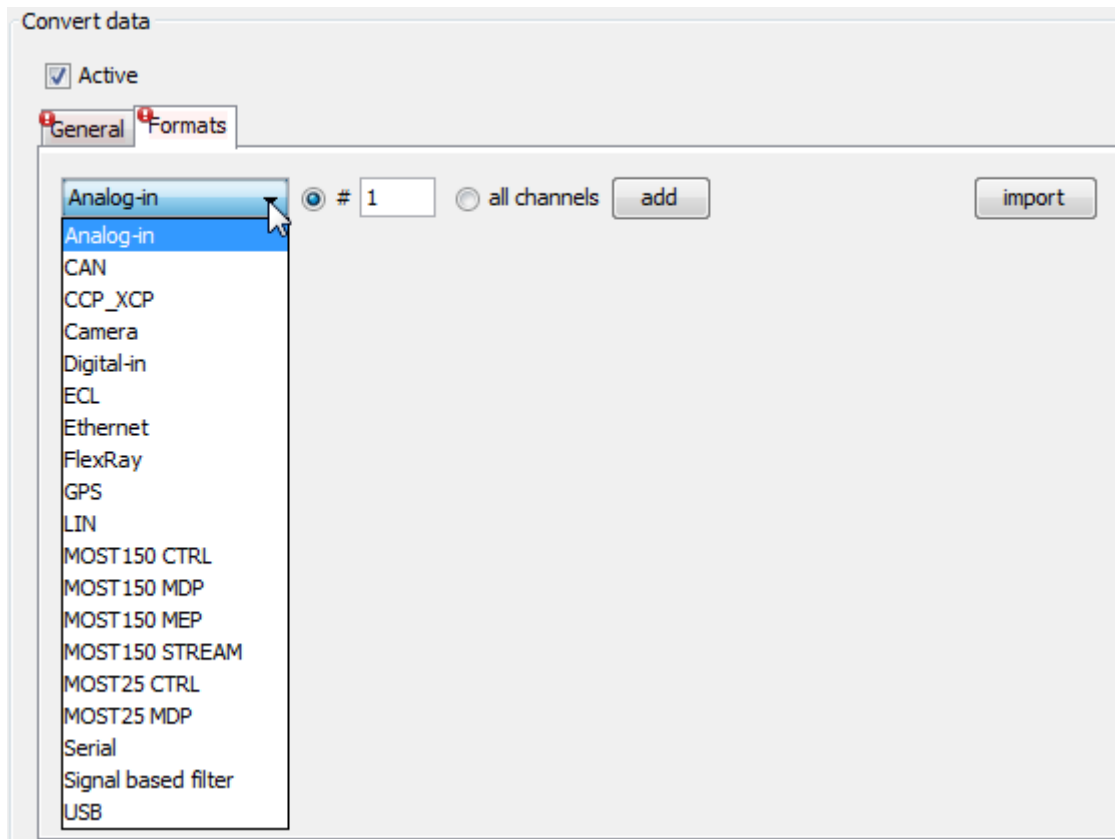


Figure 6.9: Available channels

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

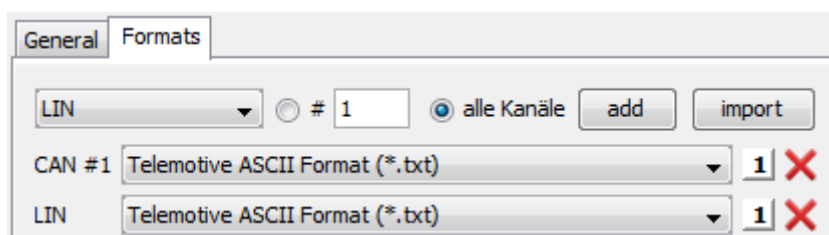


Figure 6.10: channel settings

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

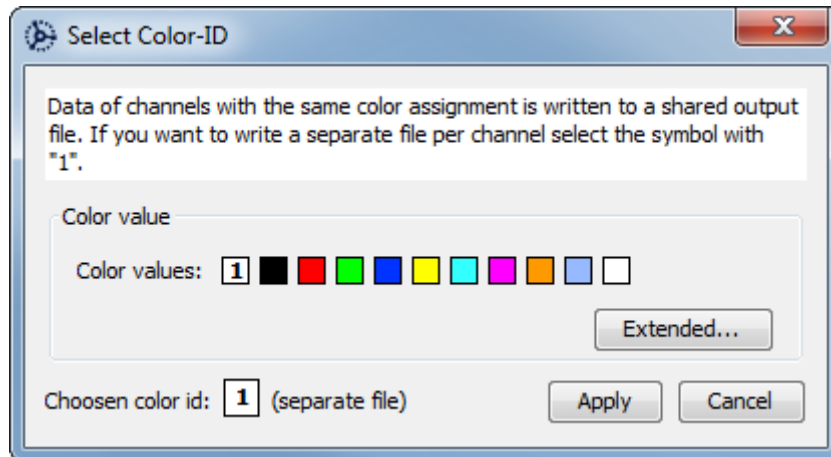



Figure 6.11: color ID

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

6.3 Set time

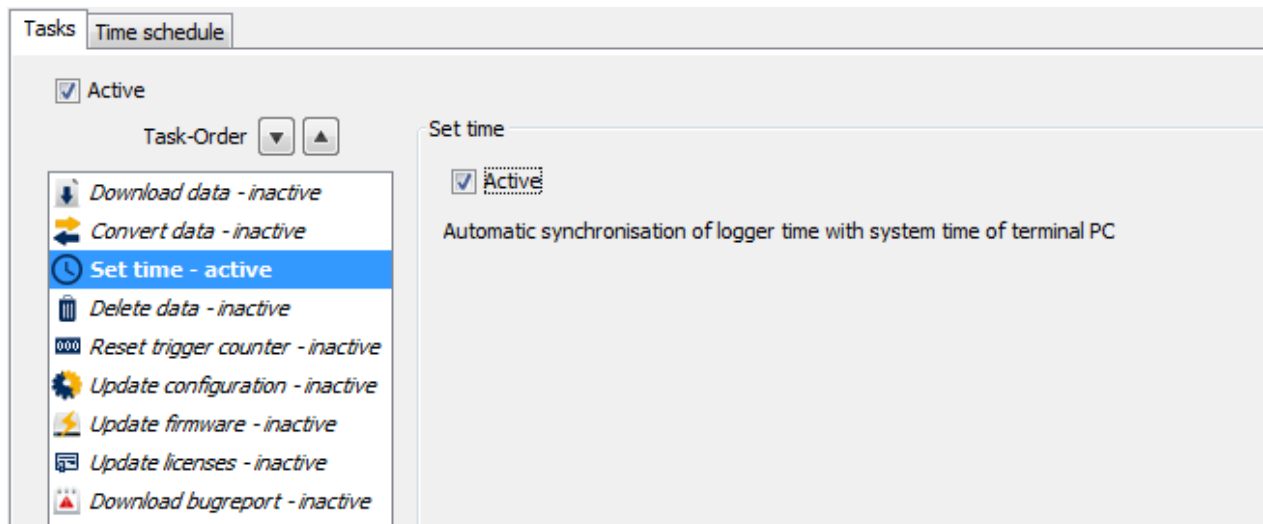


Figure 6.12: Task: Set time

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

6.4 Delete data

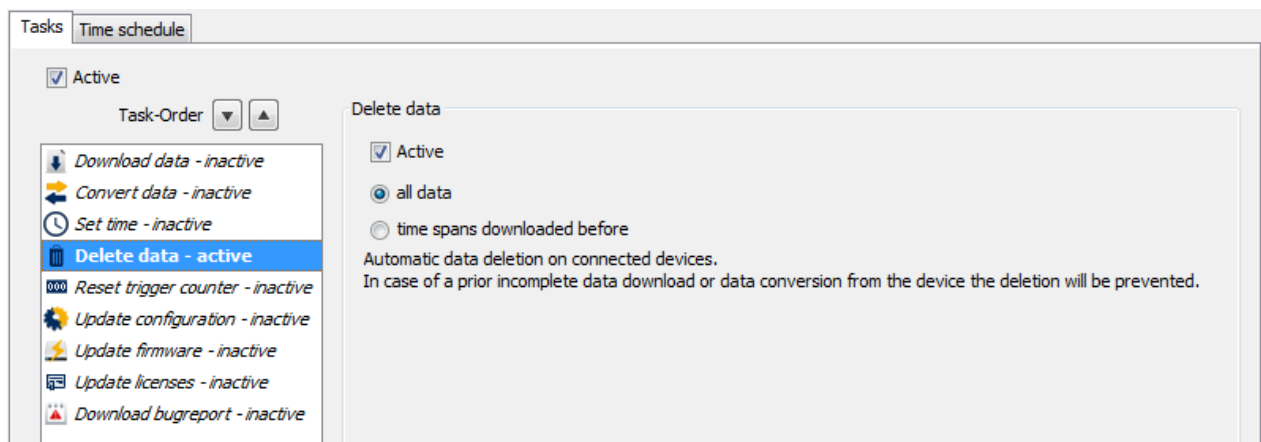


Figure 6.13: Task: Delete data

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

- all data
- data downloaded before

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

6.5 Rest trigger counter

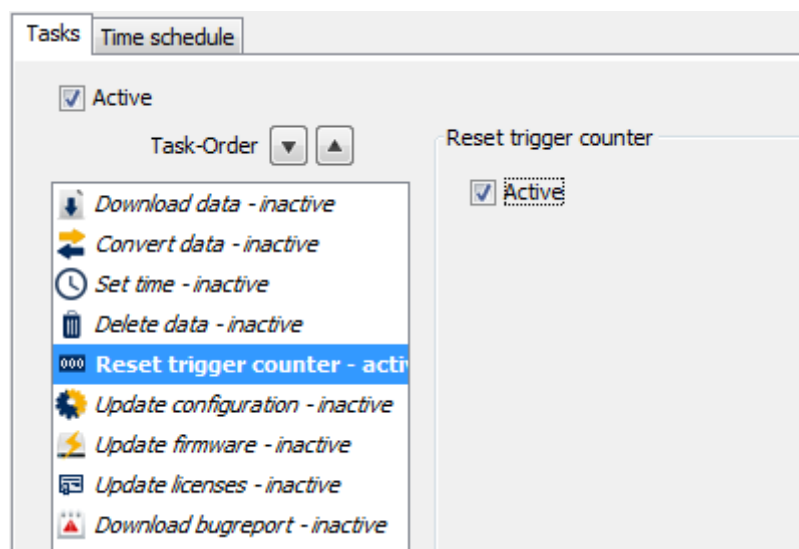


Figure 6.14: Task: Reset trigger counter

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

6.6 Update configuration

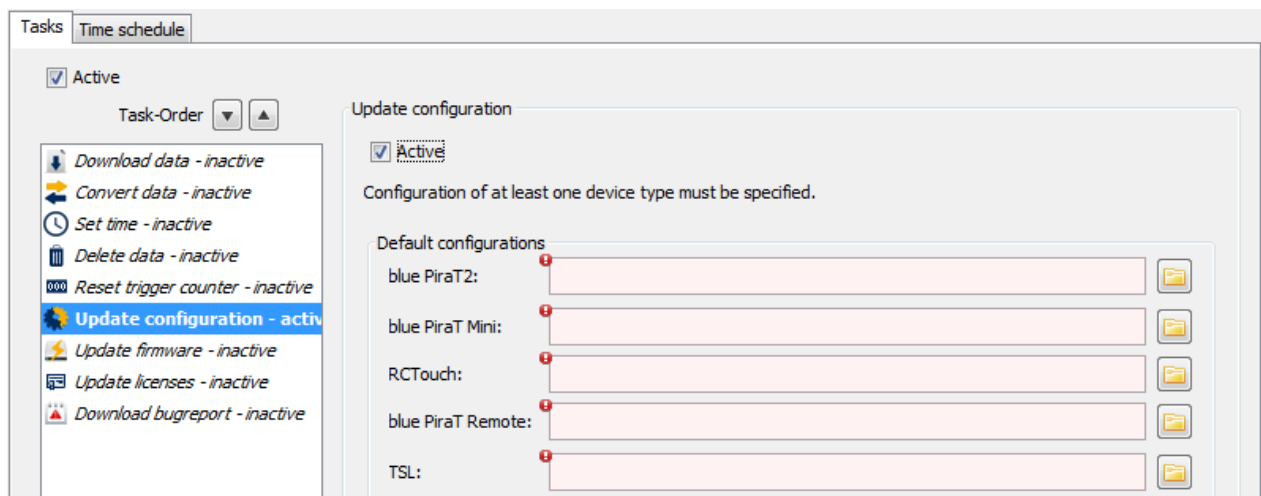


Figure 6.15: Task: Update configuration

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

- blue PiraT2
- blue PiraT Mini
- RCTouch
- blue PiraT 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!

6.7 Update firmware

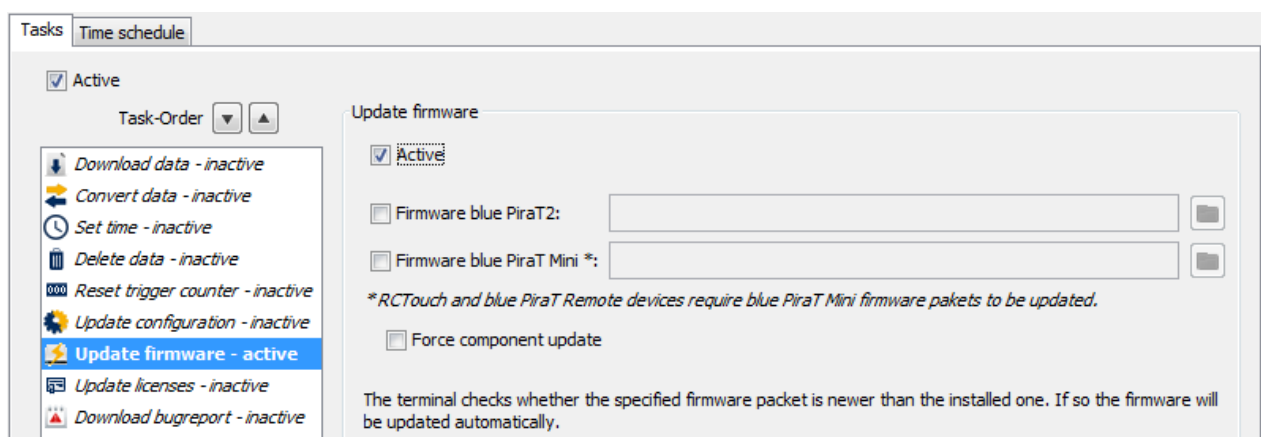


Figure 6.16: Task: Update firmware

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 the firmware for **Remote Control Touch** or **blue PiraT Remote** is the same as for **blue PiraT Mini**.

6.8 Update licenses

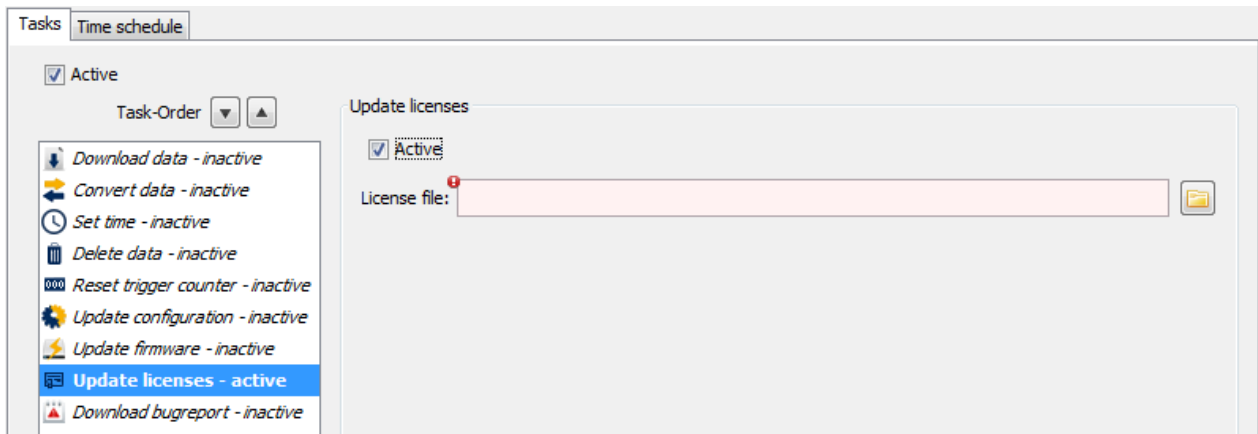


Figure 6.17: Task: Update licenses

When a license for a defined group is available, Telemotive 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

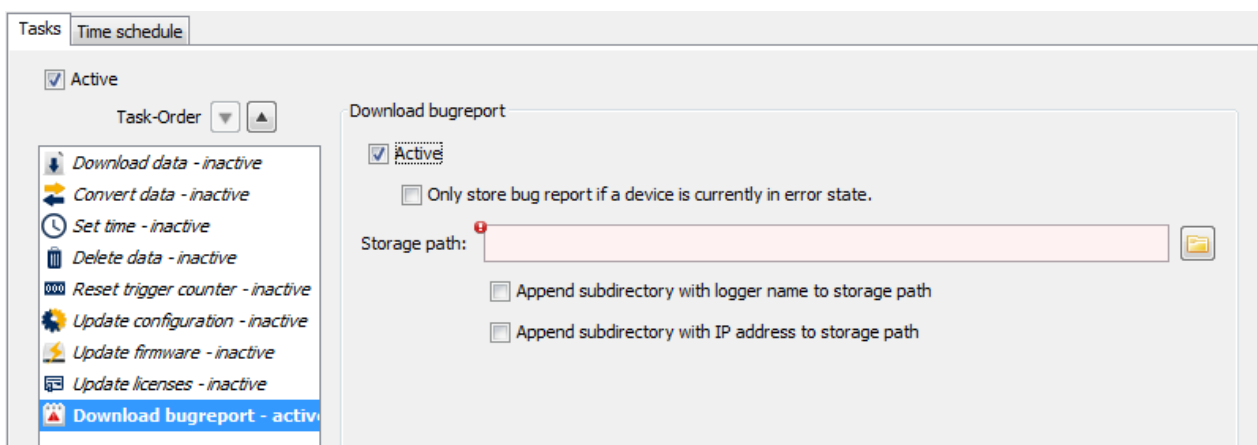


Figure 6.18: Task: Download bugreport

When a logger is connected to Telemotive 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.

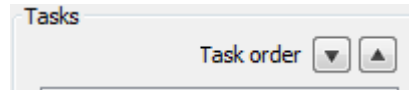


Figure 6.19: Setting the Task order

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]**.

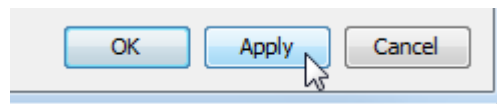


Figure 6.20: Saving the group

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 6.21: Administrating groups

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

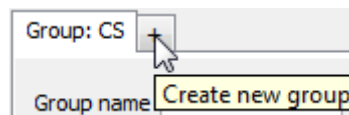


Figure 6.22: Creating a new group

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, when the devices are reachable permanently, the task will be done at specified times only.

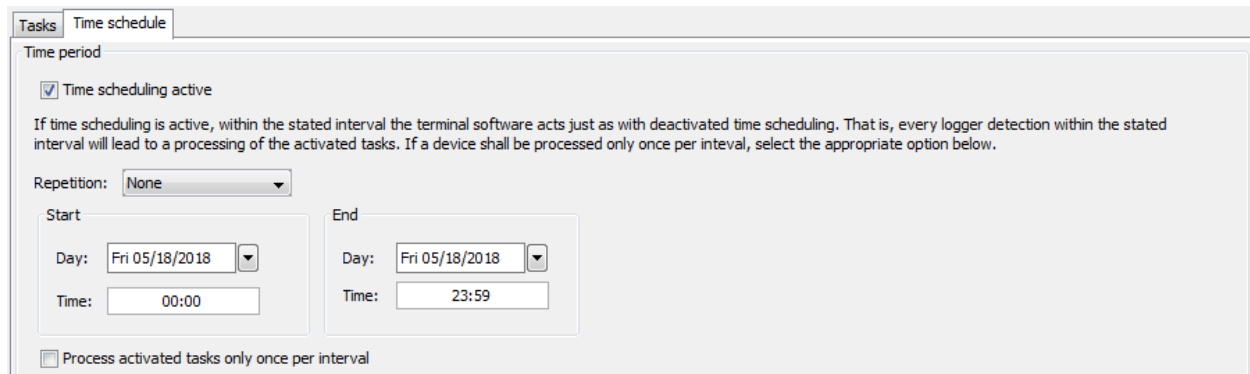


Figure 6.23: Activating Time schedule

The time schedule can be set to given times and a repetition can be set to ***None***, ***Daily*** or ***Weekly***.

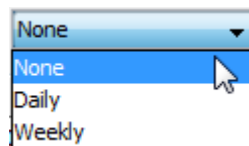


Figure 6.24: setting the repetition

7 Starting the Telemotive 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**.

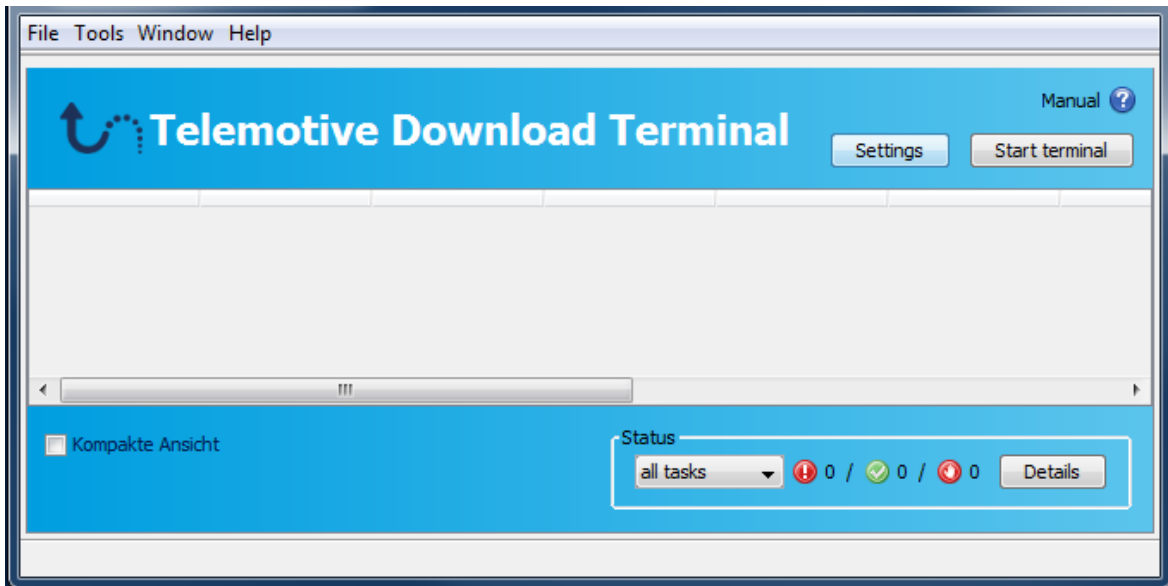
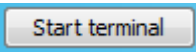


Figure 7.1: The Terminal window

By 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 Telemotive Download Terminal!

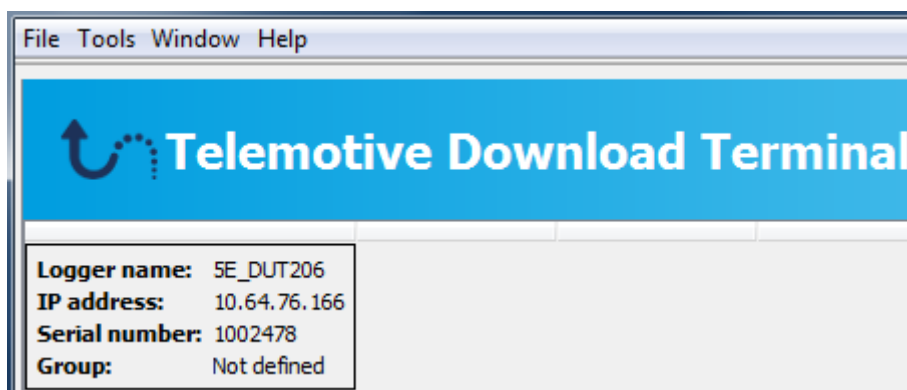


Figure 7.2: An identified device which is in no group

When Telemotive 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

Logger name:	5E_DUT206
IP address:	10.64.76.166
Serial number:	1002478
Group:	Not defined

Figure 7.3: Device information

If there are too many devices in the list the list 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]** **Kompakte Ansicht** has to be marked.

Logger name:	5E_DUT206
IP address:	10.64.76.166

Figure 7.4: Device information - compact view

When a device is recognized by Telemotive Download Terminal and identified as a member of a group, the entire 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.

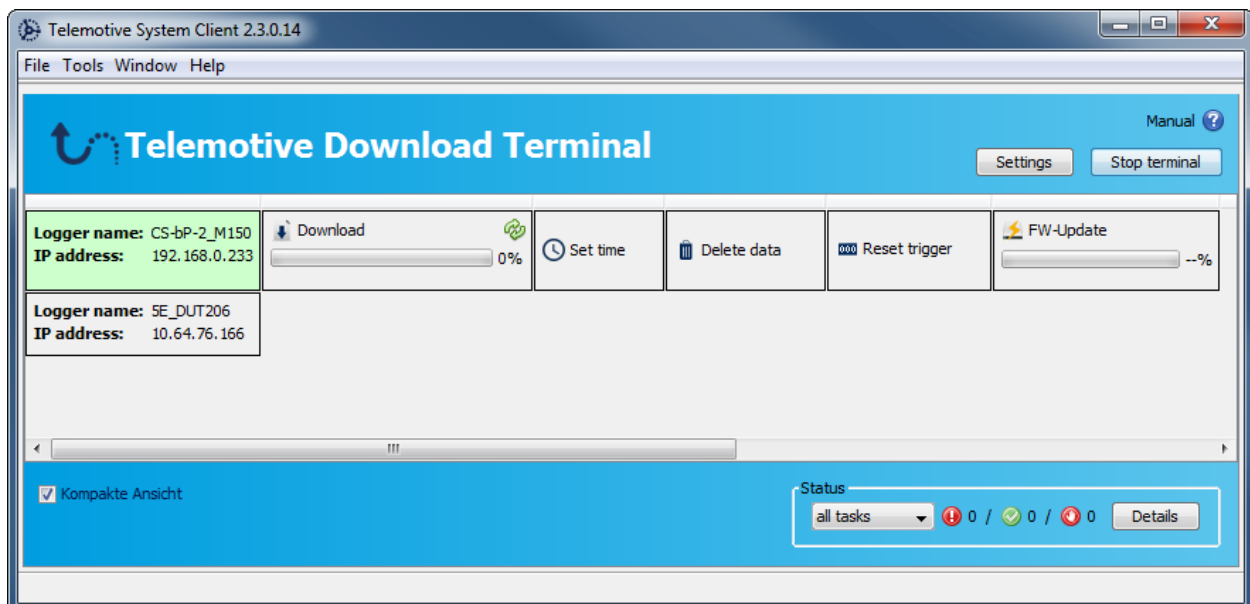


Figure 7.5: Identified from a defined group

The eradication 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 eradication of the tasks

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.

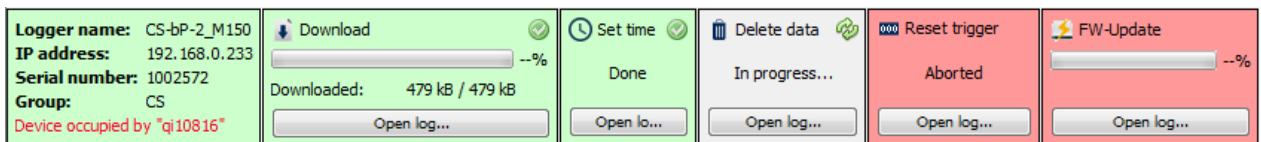


Figure 7.7: Errors in the eradication

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:

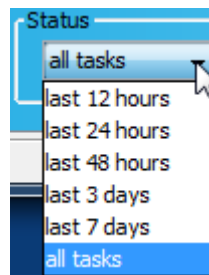

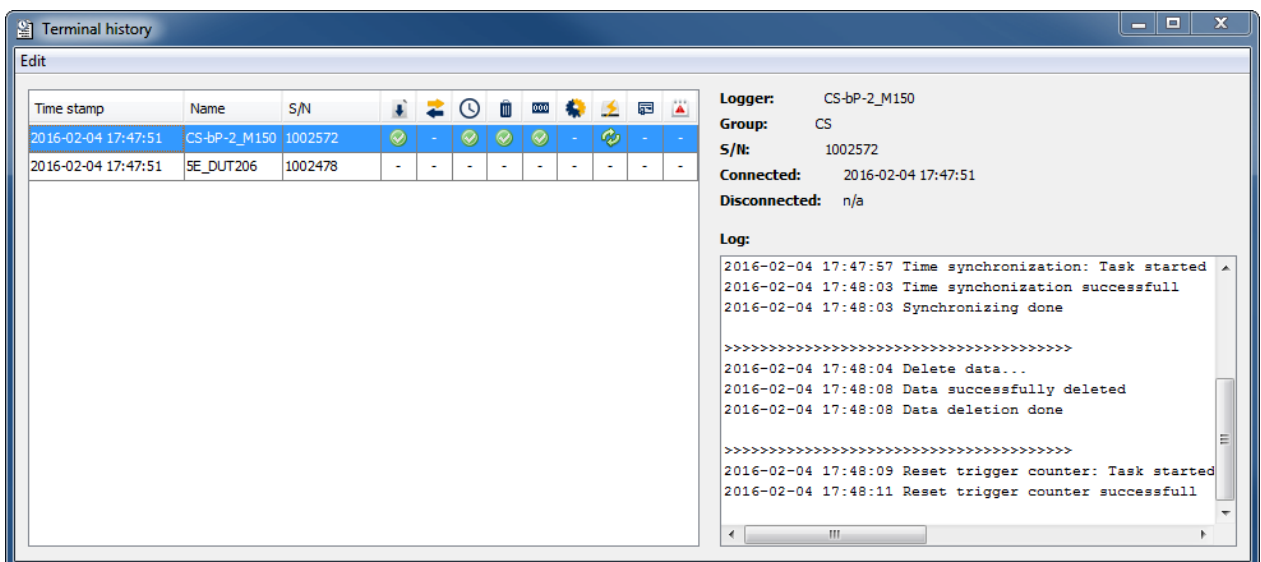


Figure 7.9: Filtering the status display

Via the button  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



The screenshot shows the 'Terminal history' window. On the left, there is a table with columns for Time stamp, Name, S/N, and a series of status icons. Two rows are visible, both with successful status icons. On the right, there is a detailed log for a device named 'CS-bP-2_M150' with S/N '1002572'. The log shows 'Time synchronization: Task started', 'Time synchronization successfull', and 'Synchronizing done'. It also shows 'Delete data...' and 'Data successfully deleted' followed by 'Data deletion done'. Finally, it shows 'Reset trigger counter: Task started' and 'Reset trigger counter successfull'.

Time stamp	Name	S/N	Status 1	Status 2	Status 3	Status 4	Status 5	Status 6
2016-02-04 17:47:51	CS-bP-2_M150	1002572						
2016-02-04 17:47:51	5E_DUT206	1002478						

Figure 7.10: Terminal history

8 Abbreviations

Kürzel / abbreviation	Bedeutung / meaning
blue PiraT	P rocessing I nformation R ecording A nalyzing T ool
bP	blue PiraT
bP2	blue PiraT2
bP2 5E	blue PiraT2 5E
bPMini	blue PiraT Mini
RC Touch	R emote C ontrol T ouch
bP Remote	blue PiraT Remote
A2L	A SAM M CD-2 M C L anguage
AE	A utomotive E lectronics
ACK	A CKnowledged
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	F ield B us E xchange F ormat
FW	F irmware
GMT	G reenwich M ean T ime
INCA	I NTEgrated C alibration and A pplication T ool
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 Xchange F ormat
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 Xchange
OEM	O riginal E quipment M anufacturer

PHY	PHY sical Bus Connect
PW	Pass wort
RX	Re ceiver Data
SD	Secure Digital
SFTP	Secure File Transfer P rotocol
SHA	Secure Hash
SSL	Secure 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 elemotive 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	W ireless F idelity
WLAN	W ireless L ocal A rea N etwork
XCP	U niversal M easurement and C alibration P rotocol

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