



# blue PiraT2 / Mini / Remote Telemotive Download Terminal - User Guide

Version 2.4.1 / 16.09.2016



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### 3 Overview

This user guide describes the feature of the license **Telemotive Download Terminal** for the data loggers

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

of Telemotive AG

The Terminal mode in 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.

The client software was only tested with Microsoft® Windows® 7.

This document refers to **firmware version 02.04.01** and the **Telemotive System Client** from **version 2.4.1**. 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.

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## 4 System requirements

### Control Unit

A Windows based Laptop or PC is needed to configure the devices of Telemotive AG 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 of Telemotive AG. 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](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](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](https://www.telemotive.de/4/uploads/media/blue_PiraT_Mini_UserManual.pdf)

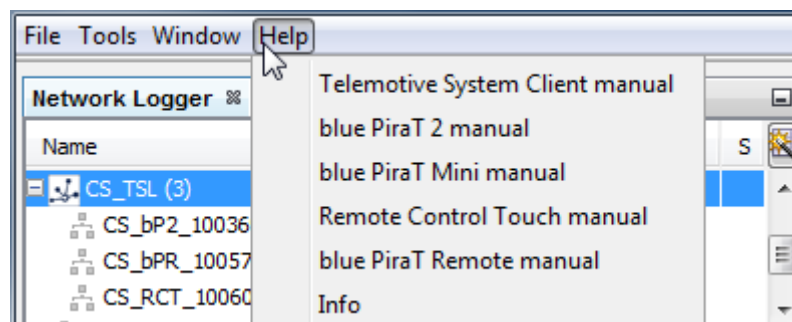
### User manual for Remote Control Touch

[https://sc.telemotive.de/4/uploads/media/RCTouch\\_UserGuide.pdf](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](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.



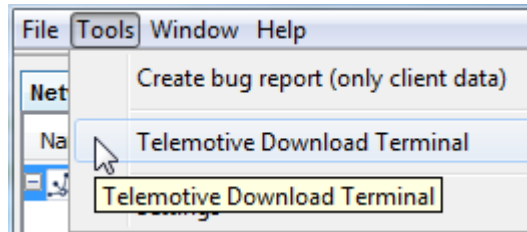
**Figure 4.1: links to the manuals**

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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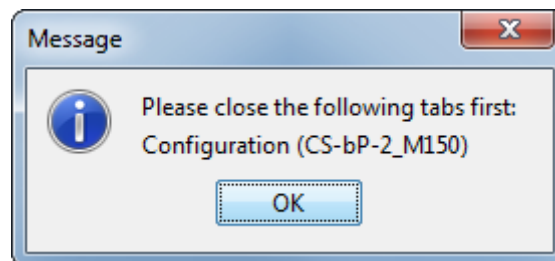
## 5 Starting Telemotive Download Terminal

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



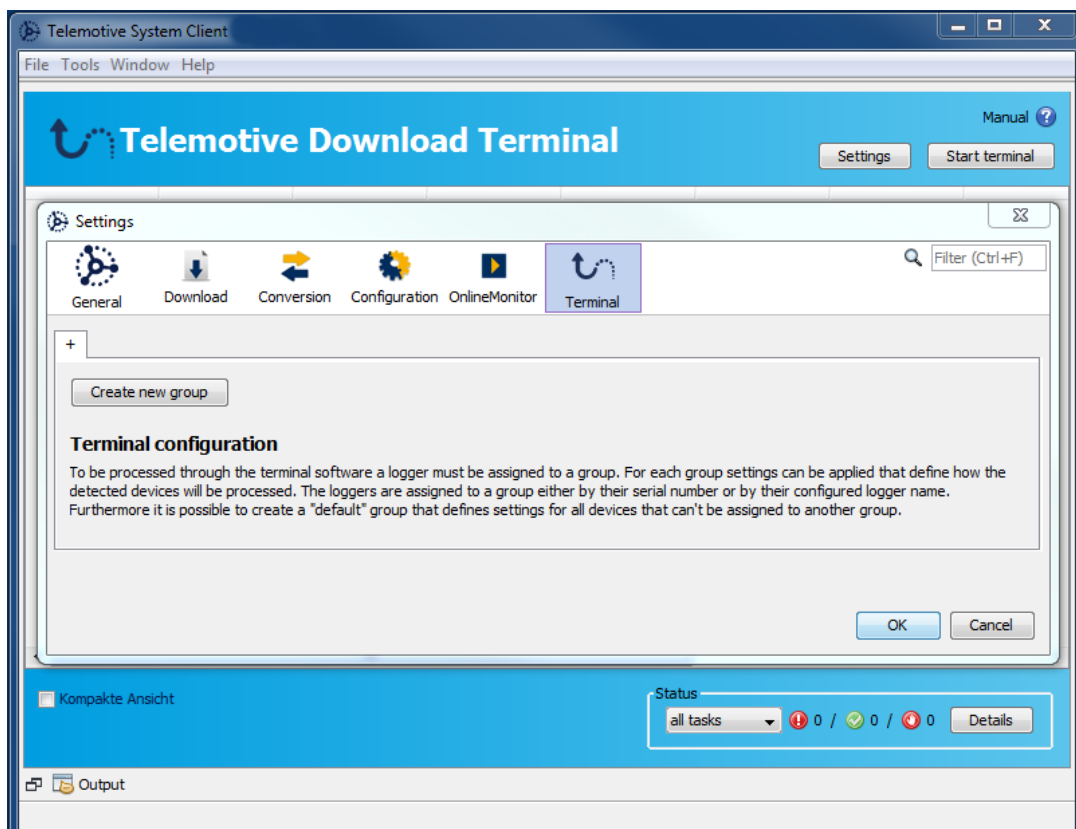
**Figure 5.1: Starting Telemotive Download Terminal**

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



**Figure 5.2: Message if tabs are open**

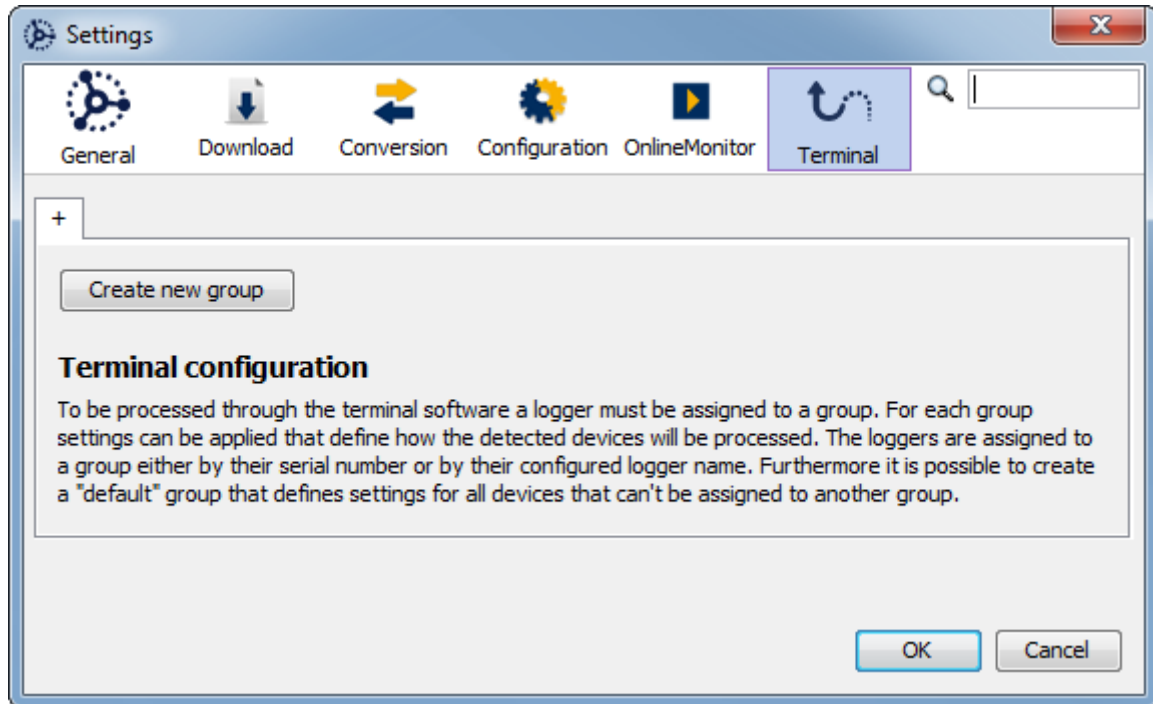
The client window changes into **Telemotive Download Terminal**,




**Figure 5.3: Starting Telemotive Download Terminal**

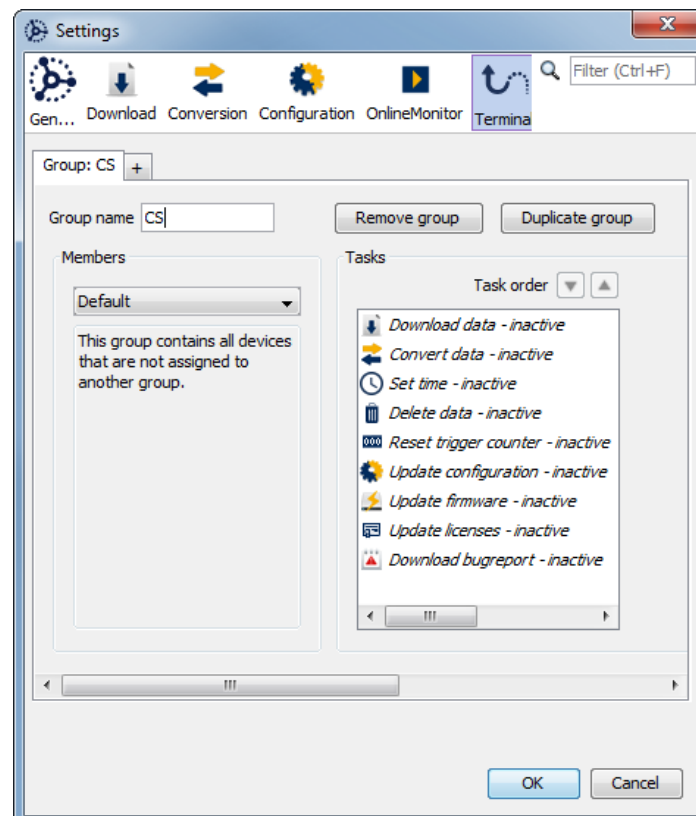


and opens automatically the settings window when it starts the first time.



**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.

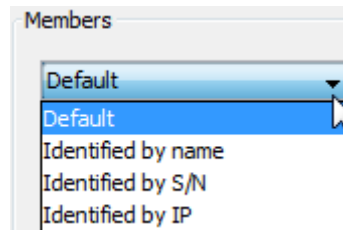


**Figure 5.5: Creating a new group**

## 5.1 Assigning devices to a group

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

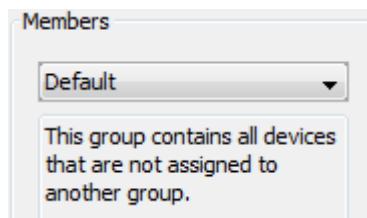
- Default
- Identified by name
- Identified by S/N
- Identified by IP



**Figure 5.6: Assigning members to a group**

### 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.

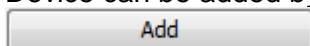


**Figure 5.7: Members: default**

#### **Attention:**

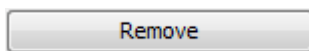
**Do not use this option in huge networks where a lot of devices are available because all devices will be handled with these steps when the Terminal mode identifies this device.**

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



into the list.

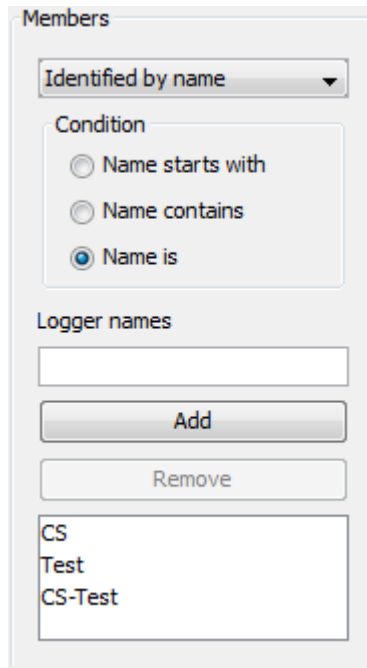
By clicking



devices can be removed from the list.

### 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.

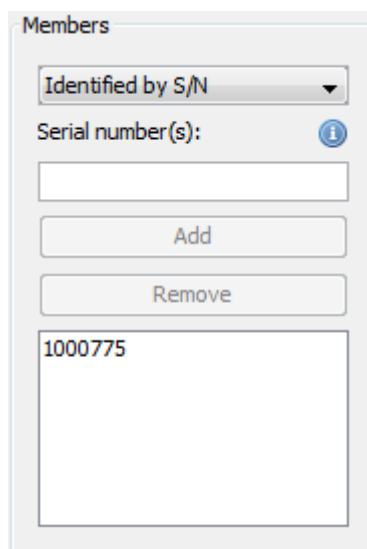


The screenshot shows a dialog box titled "Members". At the top, there is a dropdown menu set to "Identified by name". Below this is a "Condition" section with three radio buttons: "Name starts with", "Name contains", and "Name is", with "Name is" selected. Underneath is a "Logger names" section with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

Figure 5.8: Members: identified by name

### 5.1.3 Identified by S/N

Members can be identified by their serial number too.

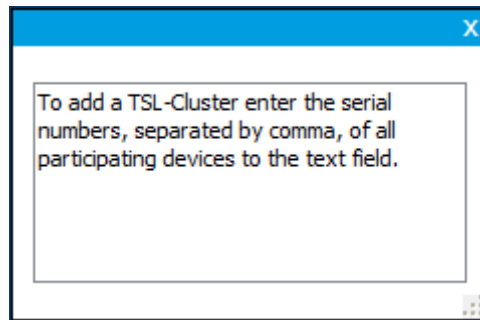


The screenshot shows a dialog box titled "Members". At the top, there is a dropdown menu set to "Identified by S/N". Below this is a "Serial number(s):" label with an information icon (i) to its right. Underneath is an empty text input field, an "Add" button, and a "Remove" button. At the bottom, a list box contains the text "1000775".

Figure 5.9: Members: identified by S/N

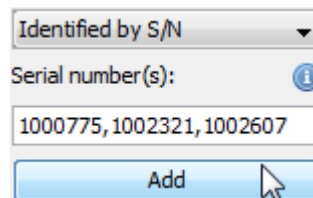
**Note:**

A TSL-Cluster can be added by typing all serial numbers of the TSL into the field, divided by comma.



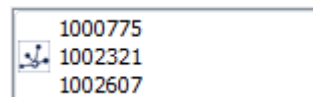
**Figure 5.10: Note for adding a TSL-Cluster**

When all members of the TSL are typed into the field and added,



**Figure 5.11: Adding a TSL-Cluster**

They are shown in the list as TSL-Cluster

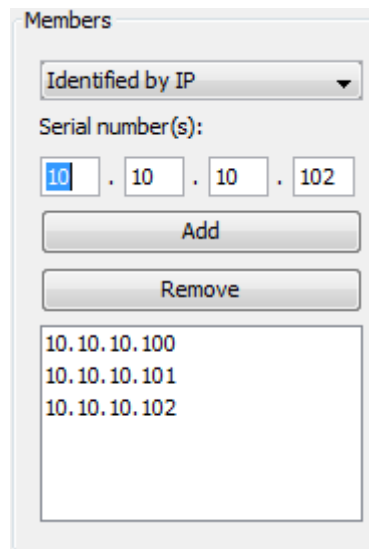


**Figure 5.12: TSL-Cluster in the list**

### 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 5.13: Identified by IP**

### 5.1.5 Terminal IP address

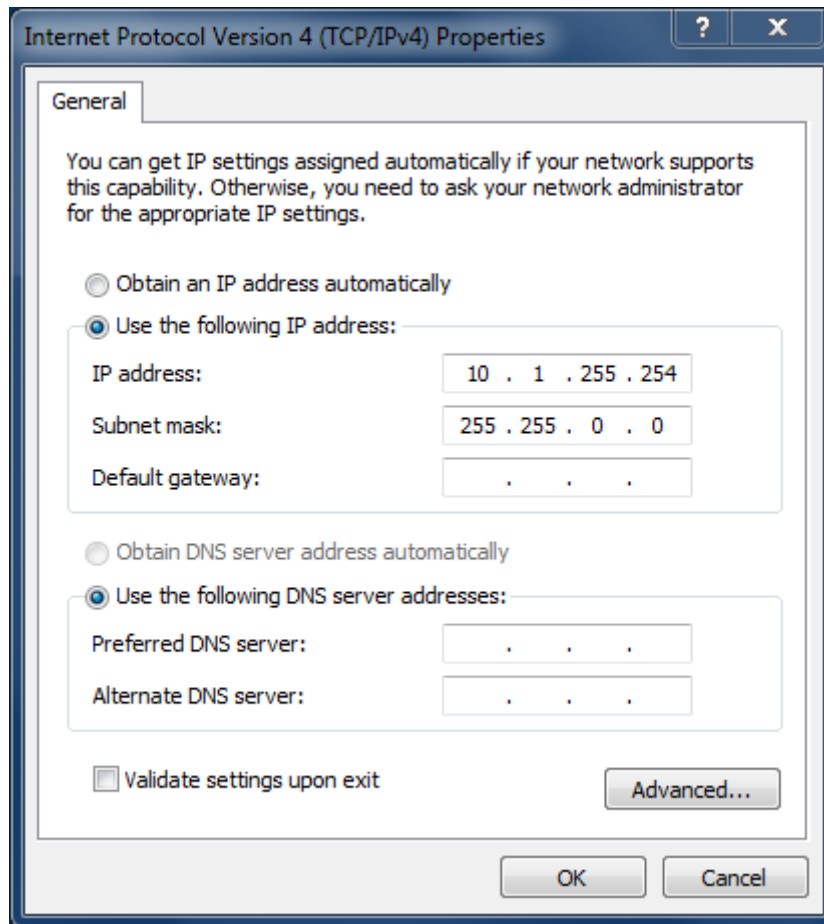
The Telemotive data logger have a feature called "Terminal mode" which allows to connect several logger to one computer system for configuration, downloading or other features without the need to modify the network settings of each data logger.

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 5.14: 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 Terminal mode.

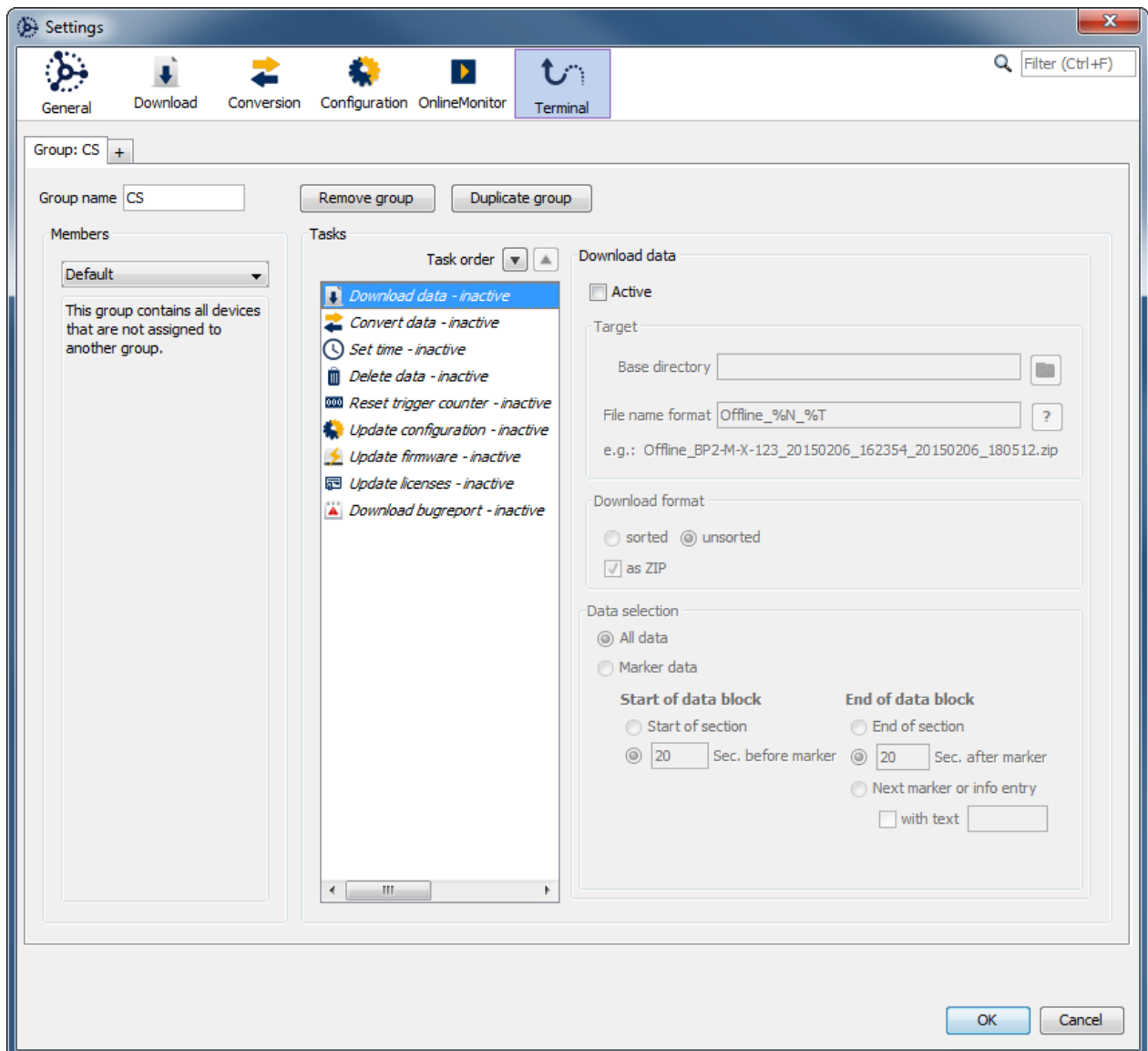
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## 6 Available tasks

Every group can contain a list of tasks which will be executed when a device is recognized by Terminal mode. 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.

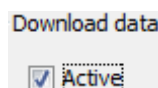
These limitations are shown in the settings window as notes in red

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

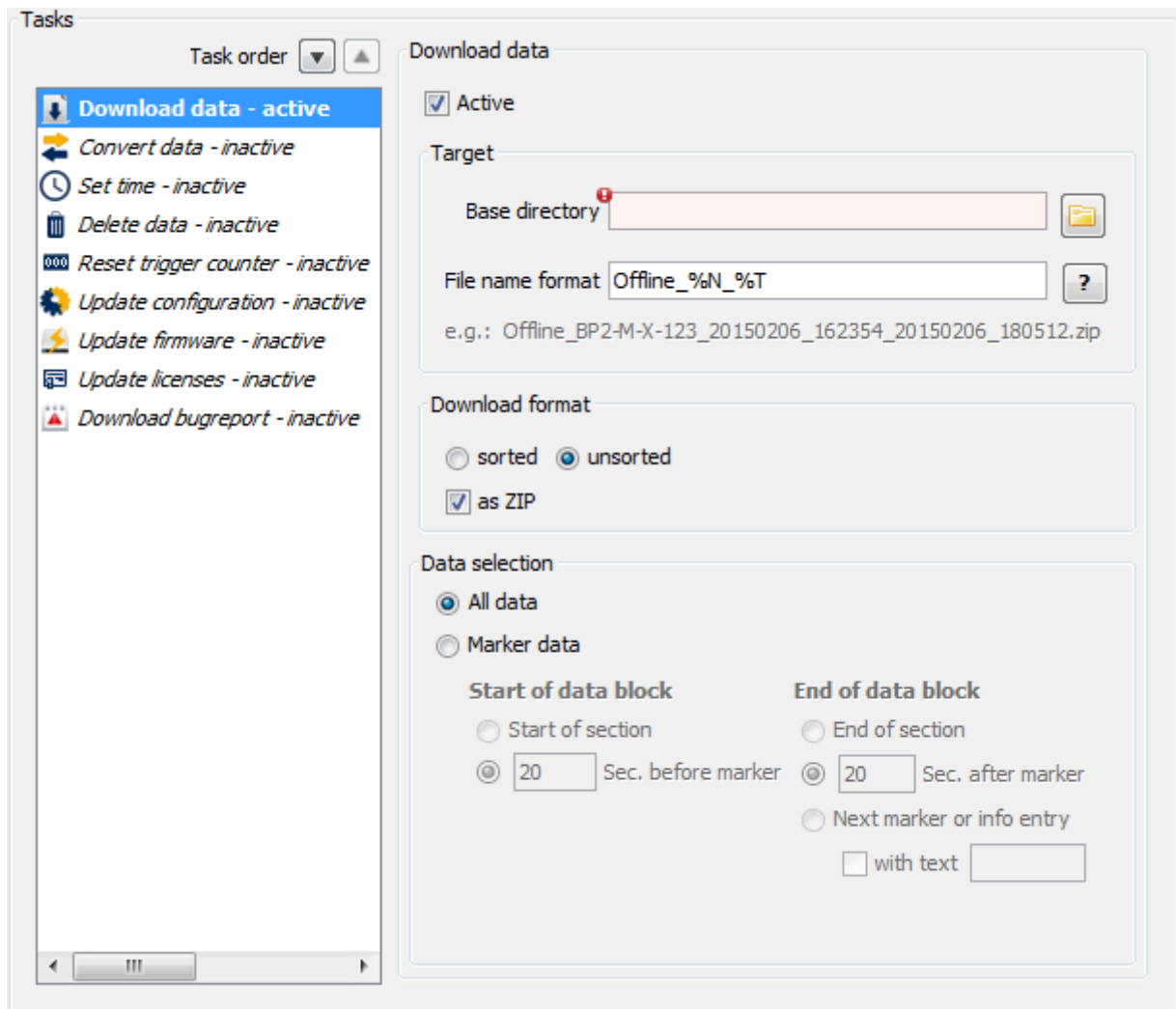


**Figure 6.1: The task list**

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



## 6.1 Download data



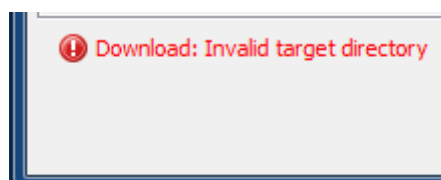
**Figure 6.2: Task: Download data**

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:**

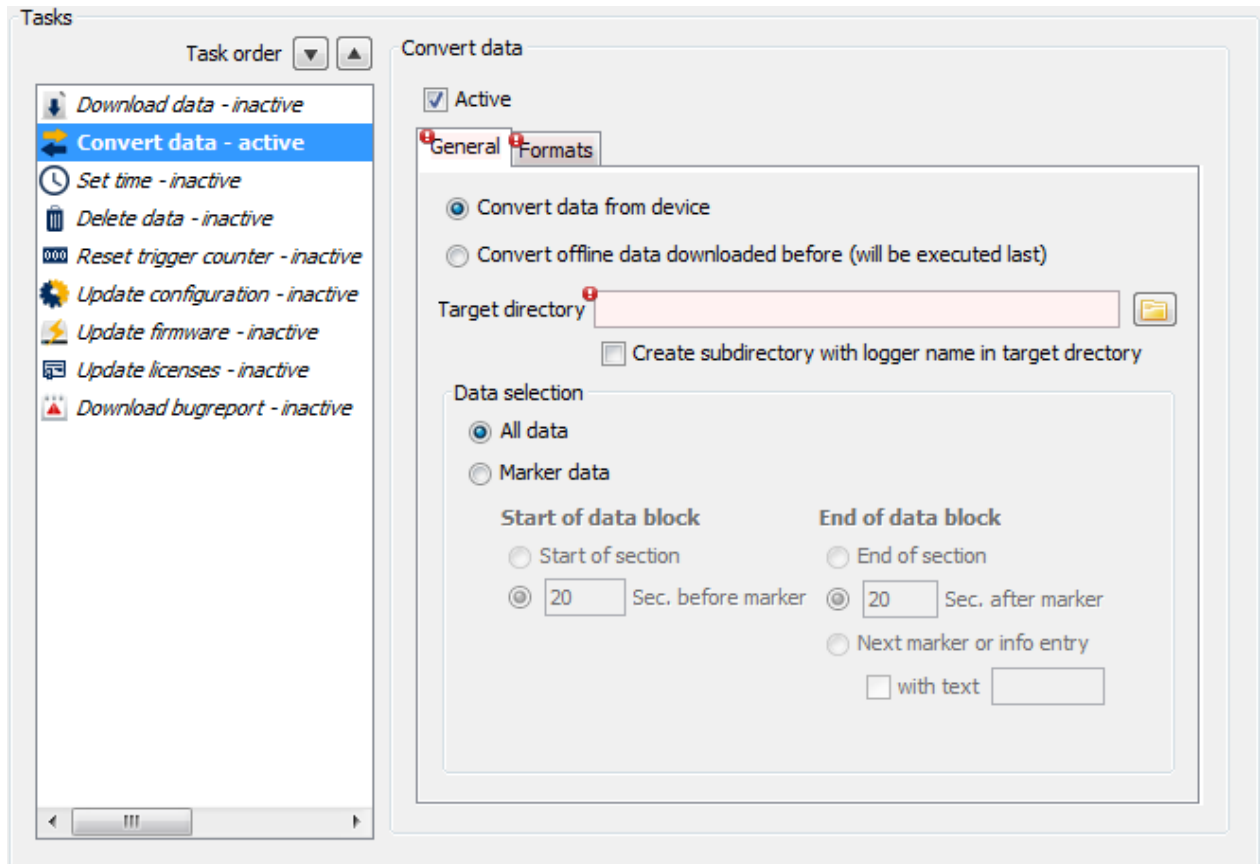
%N\Offline\_%T -> Device name\Offline\_20150206\_154312\_20150206\_164802.zip

**Note:**

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

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## 6.2 Convert data



**Figure 6.5: 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.

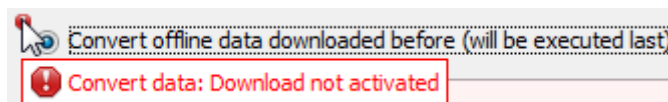
As in the Telemotive System Client you can choose if you want to download:

- All data
- Marker data

The start and end of a data block can be configured too.

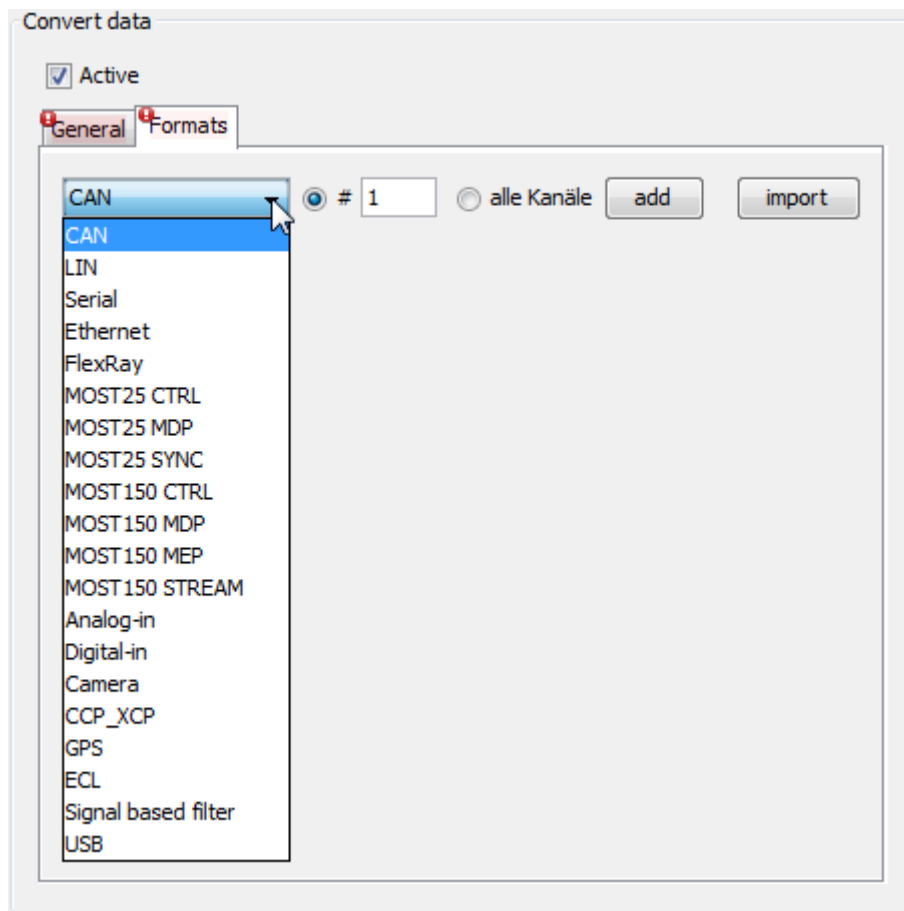
It is also possible to convert offline data in Terminal mode. In this case the data will be downloaded in an earlier task and be converted later. This reduces the time, a device has to be connected to the network.

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



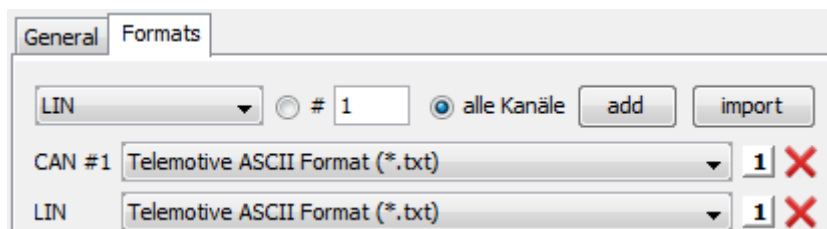
**Figure 6.6: Warning when Download is not activated**

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



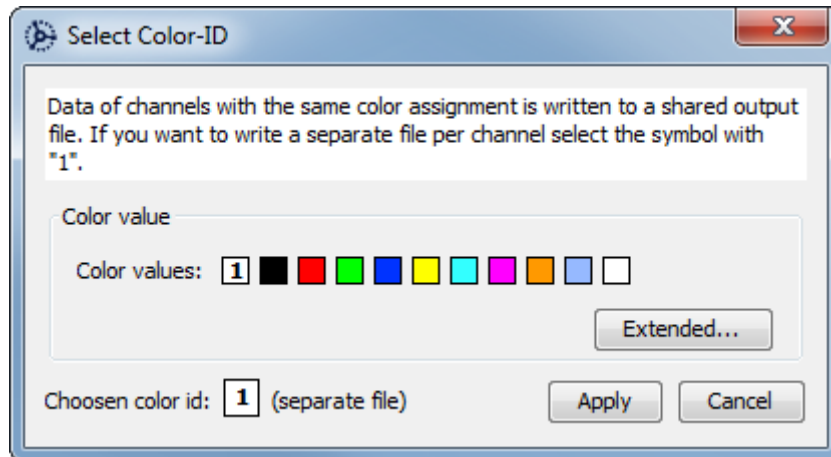
**Figure 6.7: Available channels**

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



**Figure 6.8: channel settings**

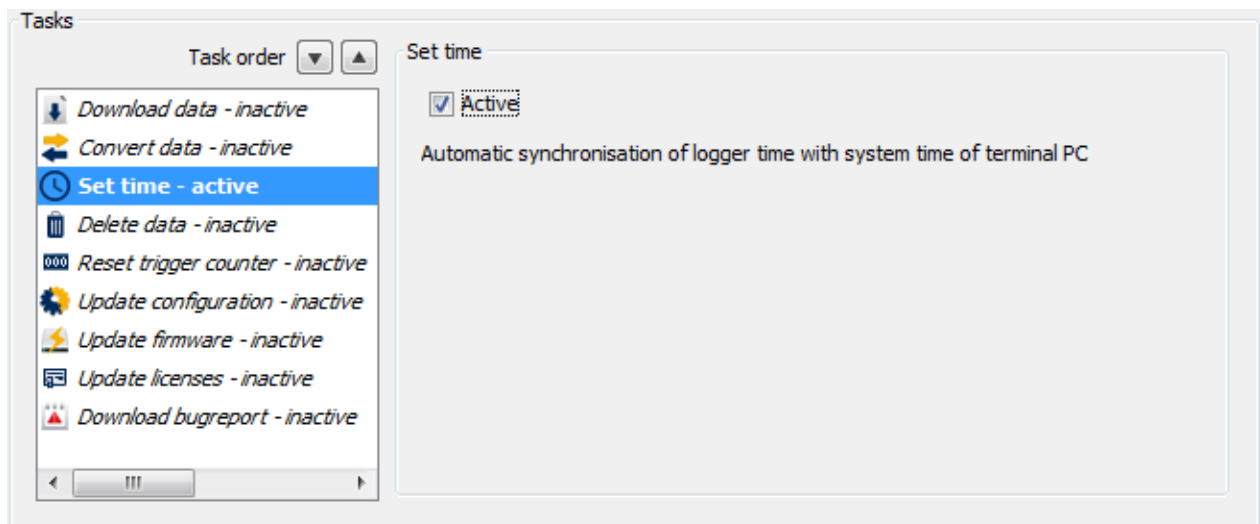
In Terminal mode you can sort data by colour ID into one or different data files like this option is available in the client.



**Figure 6.9: color ID**

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

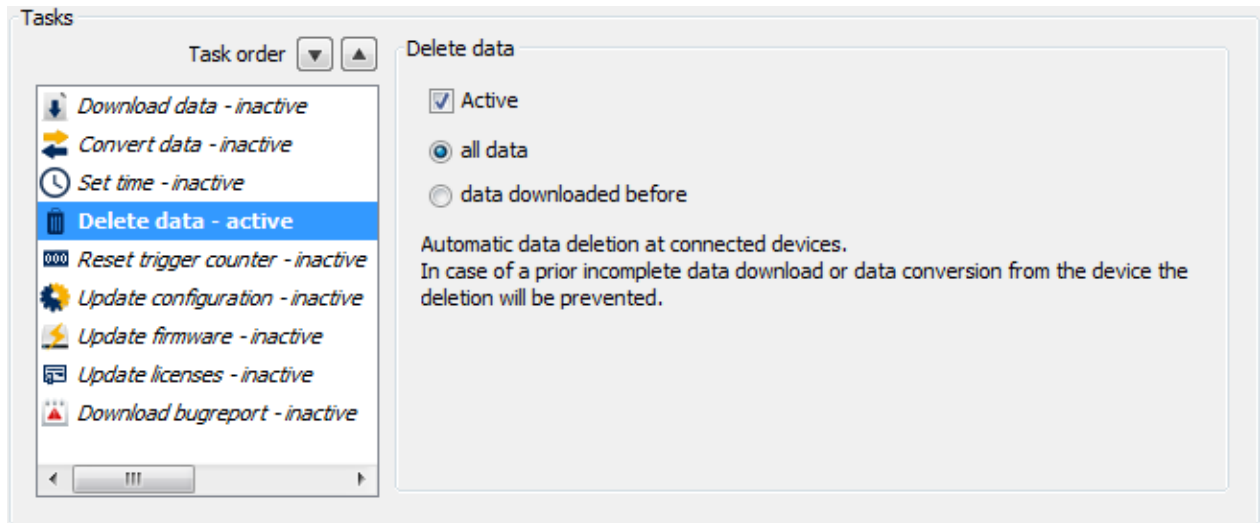
### 6.3 Set time



**Figure 6.10: Task: Set time**

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

## 6.4 Delete data



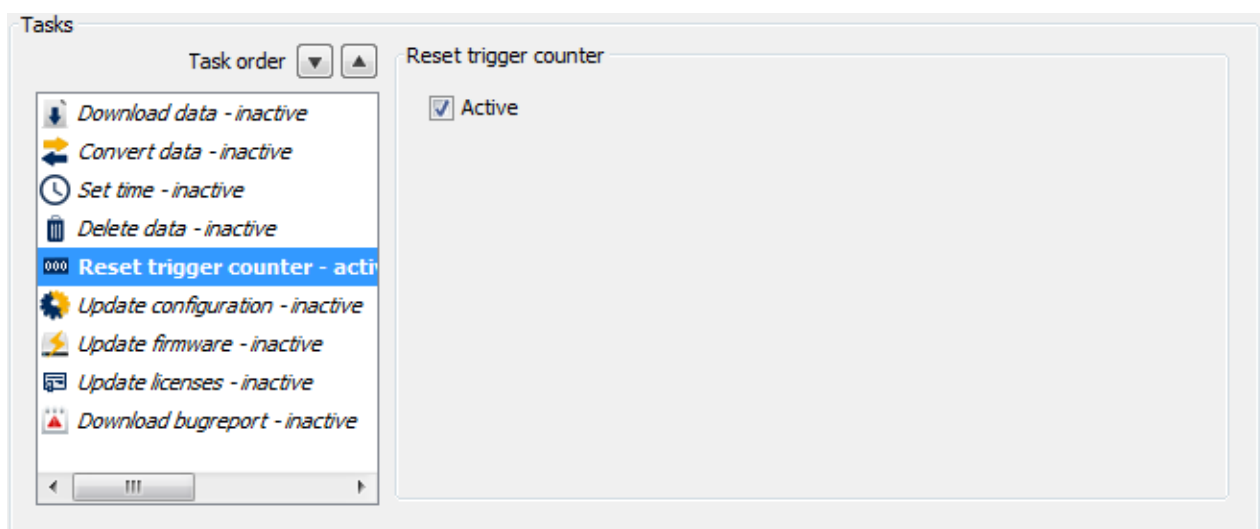
**Figure 6.11: Task: Delete data**

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.

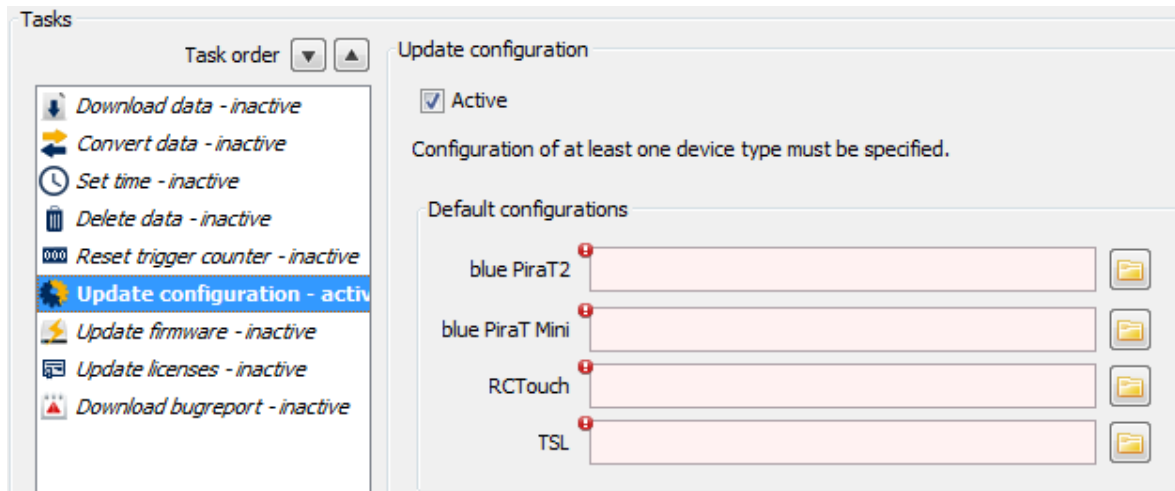
## 6.5 Rest trigger counter



**Figure 6.12: Task: Reset trigger counter**

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

## 6.6 Update configuration



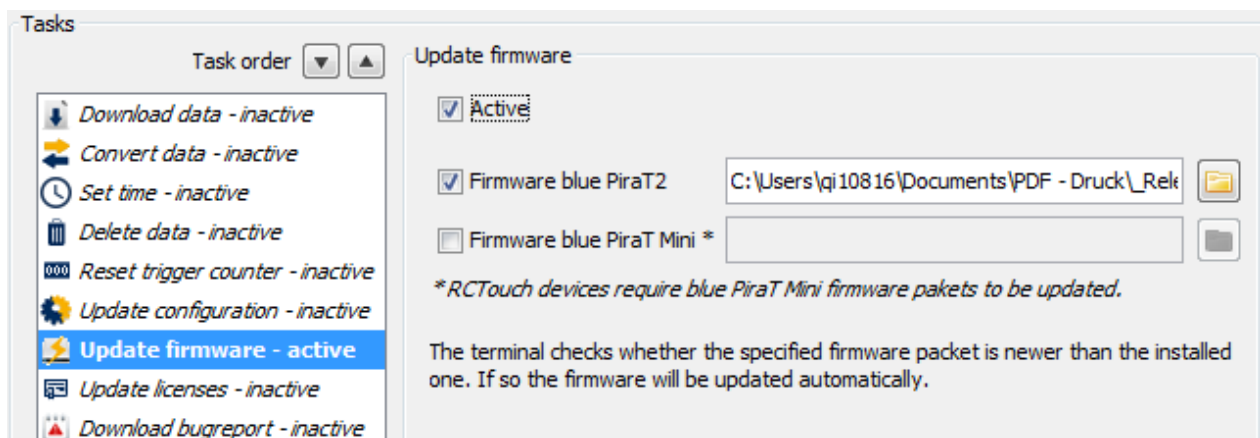
**Figure 6.13: Task: Update configuration**

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

- blue PiraT2
- blue PiraT Mini
- RCTouch
- TSL

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

## 6.7 Update firmware

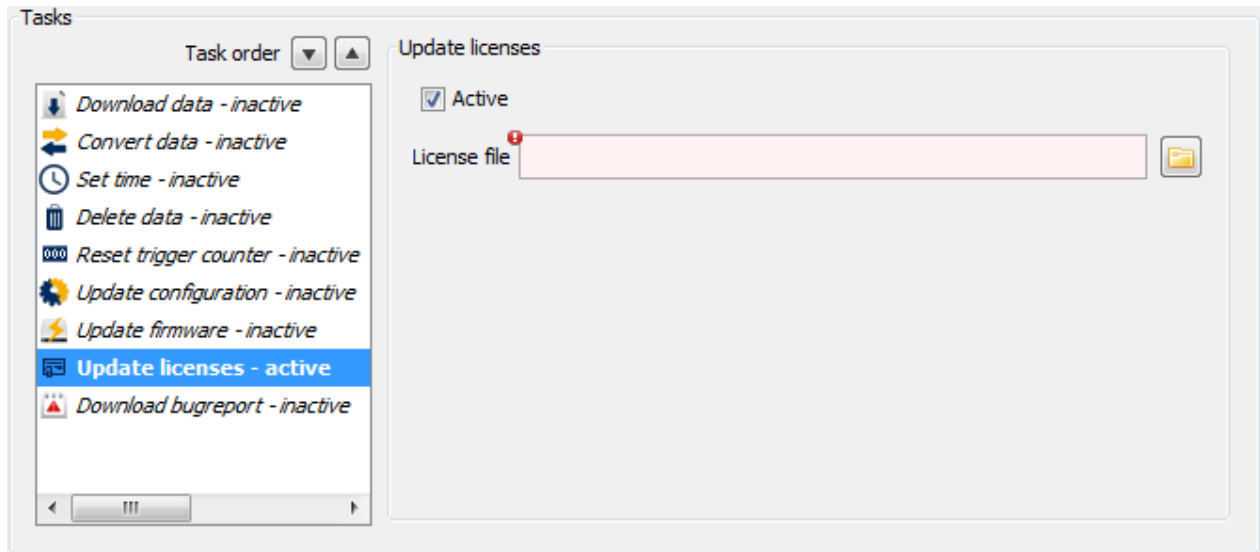


**Figure 6.14: Task: Update firmware**

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

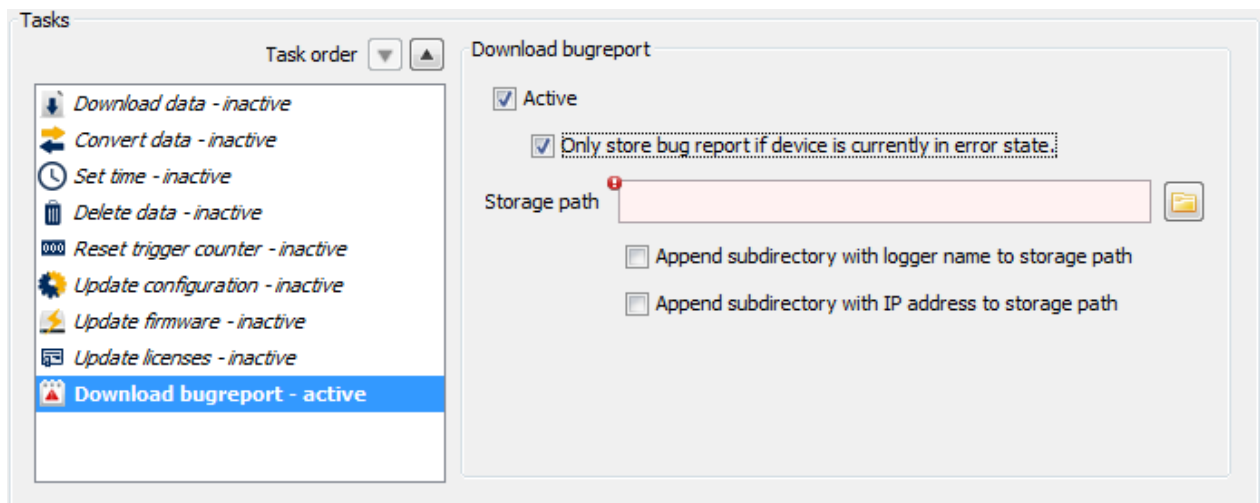
## 6.8 Update licenses



**Figure 6.15: Task: Update licenses**

When a license for a defined group is available, Terminal mode 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

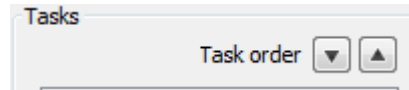


**Figure 6.16: Task: Download bugreport**

When a logger is connected to Terminal mode, 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

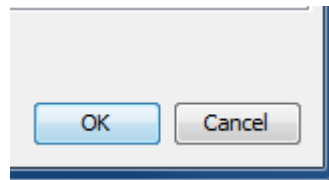
The order of the tasks for a defined group can be set by using the menu at the top of the task list. Mark a task and move it by using the two arrows to the place where it is needed.



**Figure 6.17: 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]**.



**Figure 6.18: Saving the group**

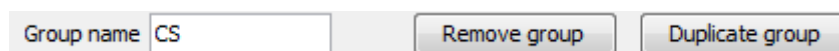
### Note:

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

## 6.12 Administrating groups

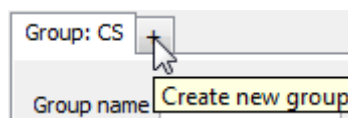
When a group is saved, it can be duplicated by the button **[Duplicate group]** to create a new group with similar settings and different members.

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



**Figure 6.19: Administrating groups**

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



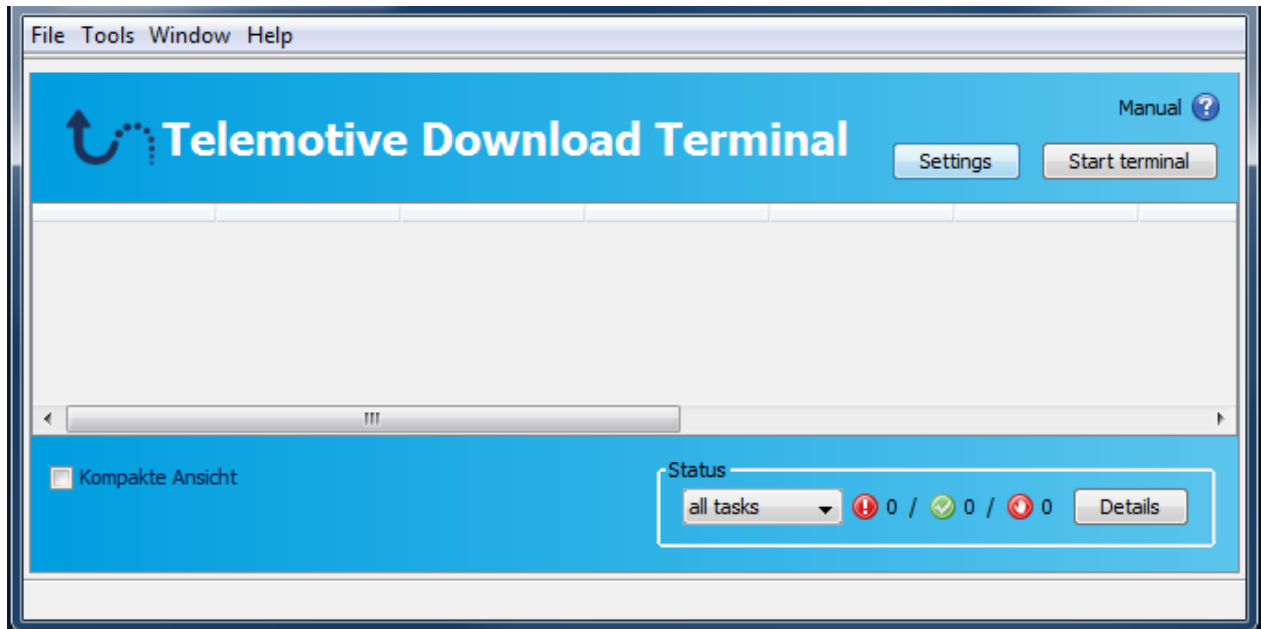
**Figure 6.20: Creating a new group**



## 7 Starting the terminal mode

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

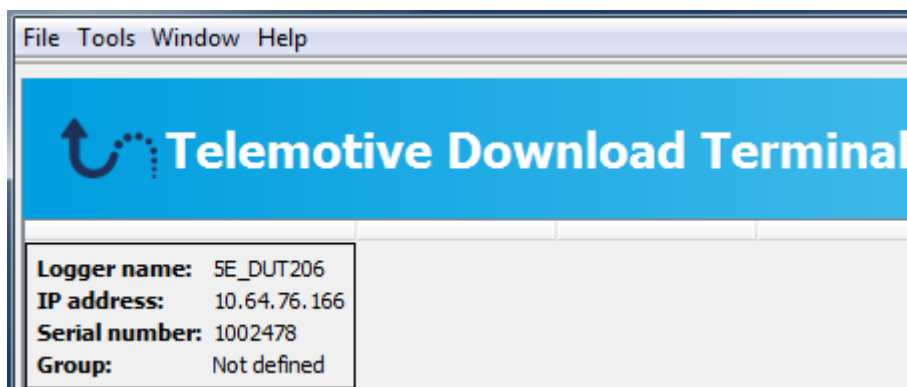
In the upper right corner there's a link to this **manual**.



**Figure 7.1: The Terminal window**

By activating the button **Start terminal** 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 Terminal mode 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

<b>Logger name:</b>	5E_DUT206
<b>IP address:</b>	10.64.76.166
<b>Serial number:</b>	1002478
<b>Group:</b>	Not defined

**Figure 7.3: Device information**

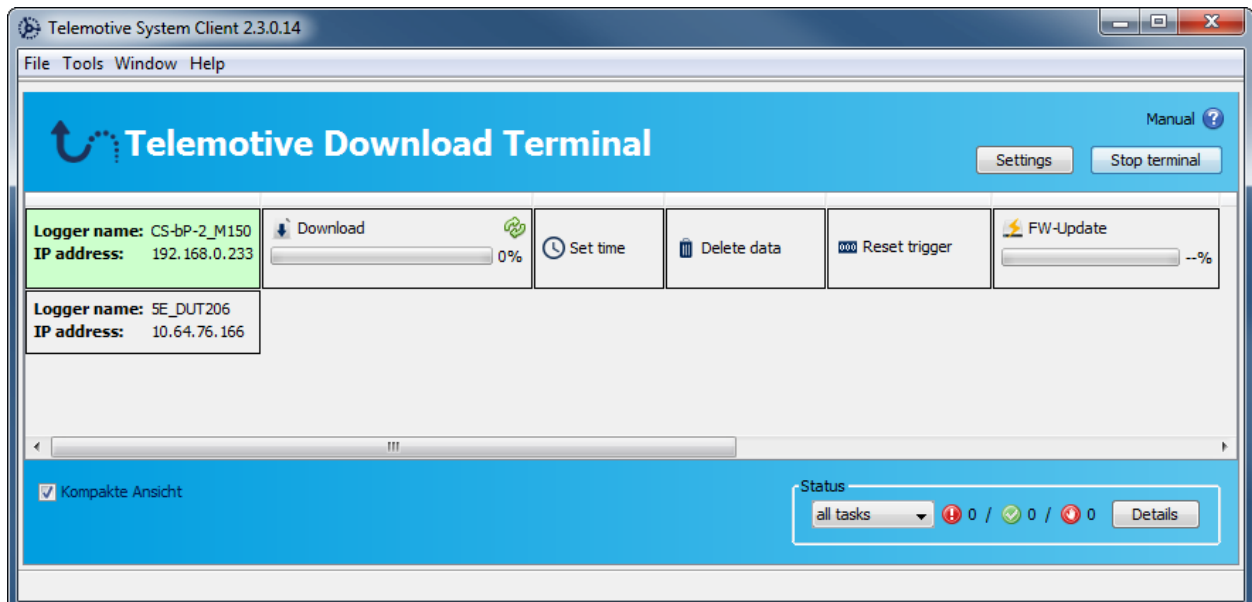
If there are too many devices in the list the list can be shown in a compact version where only the logger name and IP address are shown. To activate this option the setting for **[Kompakte Ansicht]**  **Kompakte Ansicht** has to be marked.

<b>Logger name:</b>	5E_DUT206
<b>IP address:</b>	10.64.76.166

**Figure 7.4: Device information - compact view**

When a device is recognized by Terminal mode 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.



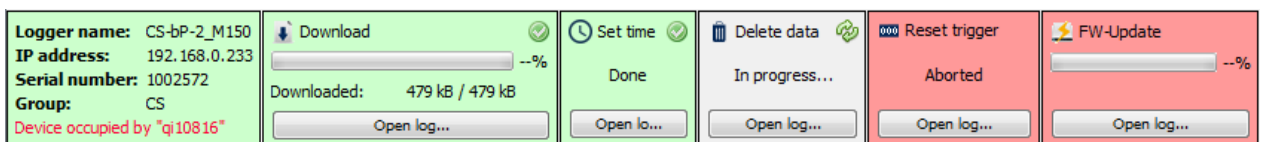
**Figure 7.5: Identified from a defined group**

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**





## 8 Abbreviations

Kürzel / abbreviation	Bedeutung / meaning
<b>blue PiraT</b>	<b>P</b> rocessing <b>I</b> nformation <b>R</b> ecording <b>A</b> nalyzing <b>T</b> ool
<b>bP</b>	<b>blue PiraT</b>
<b>bP2</b>	<b>blue PiraT2</b>
<b>bP2 5E</b>	<b>blue PiraT2 5E</b>
<b>bPMini</b>	<b>blue PiraT Mini</b>
<b>RC Touch</b>	<b>R</b> emote <b>C</b> ontrol <b>T</b> ouch
<b>bP Remote</b>	<b>blue PiraT Remote</b>
<b>A2L</b>	<b>A</b> SAM <b>M</b> CD-2 <b>M</b> C <b>L</b> anguage
<b>AE</b>	<b>A</b> utomotive <b>E</b> lectronics
<b>ACK</b>	<b>A</b> CKnowledged
<b>CAN</b>	<b>C</b> ontroller <b>A</b> rea <b>N</b> etwork
<b>CCP</b>	<b>C</b> AN <b>C</b> alibration <b>P</b> rotocol
<b>CF</b>	<b>C</b> ompact <b>F</b> lash
<b>CRO</b>	<b>C</b> ommand <b>R</b> eceive <b>O</b> bject
<b>DAQ</b>	<b>D</b> ata <b>A</b> cquisition
<b>DTO</b>	<b>D</b> ata <b>T</b> ransmission <b>O</b> bject
<b>ECL</b>	<b>E</b> lectrical <b>C</b> ontrol <b>L</b> ine
<b>ECU</b>	<b>E</b> lectronic <b>C</b> ontrol <b>U</b> nit
<b>FIBEX</b>	<b>F</b> ield <b>B</b> us <b>E</b> xchange <b>F</b> ormat
<b>FW</b>	<b>F</b> irmware
<b>GMT</b>	<b>G</b> reenwich <b>M</b> ean <b>T</b> ime
<b>INCA</b>	<b>I</b> NTEgrated <b>C</b> alibration and <b>A</b> pplication <b>T</b> ool
<b>LAN</b>	<b>L</b> ocal <b>A</b> rea <b>N</b> etwork = Netzwerk
<b>LIN</b>	<b>L</b> ocal <b>I</b> nterconnect <b>N</b> etwork
<b>MAC</b>	<b>M</b> edia <b>A</b> ccess <b>C</b> ontrol
<b>MCD</b>	<b>M</b> easure <b>C</b> alibrate <b>D</b> iagnose
<b>MDX</b>	<b>M</b> eta <b>D</b> ata <b>E</b> Xchange <b>F</b> ormat
<b>MEP</b>	<b>M</b> OST <b>E</b> thernet <b>P</b> acket
<b>MOST</b>	<b>M</b> edia <b>O</b> riented <b>S</b> ystems <b>T</b> ransport ( <a href="http://www.mostnet.de">www.mostnet.de</a> )
<b>ODT</b>	<b>O</b> bject <b>D</b> escriptor <b>T</b> able
<b>ODX</b>	<b>O</b> pen <b>D</b> ata <b>E</b> Xchange
<b>OEM</b>	<b>O</b> riginal <b>E</b> quipment <b>M</b> anufacturer

<b>PHY</b>	<b>PHY</b> sical Bus Connect
<b>PW</b>	<b>Pass</b> wort
<b>RX</b>	<b>Re</b> ceiver Data
<b>SD</b>	<b>Secure</b> Digital
<b>SFTP</b>	<b>Secure</b> File Transfer <b>P</b> rotocol
<b>SHA</b>	<b>Secure</b> Hash
<b>SSL</b>	<b>Secure</b> Sockets Layer
<b>TCP/IP</b>	Transmission <b>C</b> ontrol Protocol/ <b>I</b> nternet <b>P</b> rotocol
<b>TLS</b>	Transport Layer <b>S</b> ecurity
<b>TMP</b>	<b>Telemotive</b> Packetformat
<b>TSL</b>	<b>Telemotive</b> System Link
<b>UDP</b>	<b>U</b> ser Datagram <b>P</b> rotocol
<b>USB</b>	<b>U</b> niversal <b>S</b> erial <b>B</b> us
<b>UTC</b>	<b>U</b> niversal Time, <b>C</b> oordinated
<b>Wi-Fi</b>	<b>W</b> ireless <b>F</b> idelity
<b>WLAN</b>	<b>W</b> ireless <b>L</b> ocal <b>A</b> rea <b>N</b> etwork
<b>XCP</b>	Universal Measurement and <b>C</b> alibration <b>P</b> rotocol

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