







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.

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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 (<u>https://telemotive.magna.com</u>) 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 <u>System Link</u>.

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 <u>System Link</u>. (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.

File Tools Window	Help
Network logger ×	System Client manual
Name	BLUEPIRAT 2 manual
	BLUEPIRAT Mini manual
	Remote Control Touch manual
	BLUEPIRAT Remote manual
	BLUEPIRAT Power Backup manual
	BLUEPIRAT Power Backup Handbuch
	Info

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 log- ger and convert these data with the System Client. (<i>from FW 02.03.01</i>) 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 automati- zation 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 <u>TMO.Sales@magna.com</u> (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.

File	File Tools Window Help			
Net		Create bug report (only client data)		
Na	6	Telemotive Download Terminal		
5.3	Ťe	lemotive 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

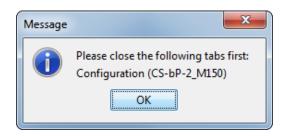


Figure 5.2: Messsage if tabs are open

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

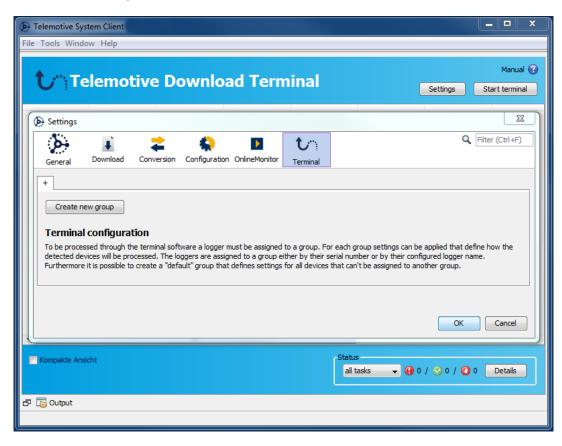


Figure 5.3: Starting Download Terminal

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

Einstellungen		×			
General Download Conversion Configuration Online-Monitor	Terminal Proxy	۹ [
+ Create new group					
Terminal configuration To be processed through the terminal software a logger must be assigned to a group. For each group settings can be applied that define how the detected devices will be processed. The loggers are assigned to a group either by their serial number or by their configured logger name. Furthermore it is possible to create a "default" group that defines settings for all devices that can't be assigned to another group.					
		OK Apply Cancel			

Figure 5.4: Settings for Download Terminal

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

Create new group to

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

M	lembers	
	Default	T
	Default	3
	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 Add into the list.

Members
Identified by S/N 🗸
Serial number(s):
Add device
1007419
Add
Remove
1006014

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.

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Me	embers	
	Default 👻	
	This group contains all devices that are not assigned to another group.	

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!

Members			
Identified by name \sim			
Condition			
Name starts with			
○ Name contains			
○ Name is			
Choose logger			
Logger names:			
🗌 TSL 2 🗸			
Add			
Remove			
TSL			

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:

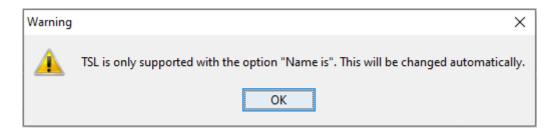


Figure 5.10: TSL selection Note

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

Logger names:				
TSL_blue	TSL	2 🗸		
A	2			
Ren	3			
	5			
		6		

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.

Add		
Remove		
TSL_blue Number of devices:3		

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.

Members	
Identified by S/N	\sim
Serial number(s):	
Add device	
1000460	
Add	
Remove	

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 ⁽¹⁾ shows a hint about this procedure.

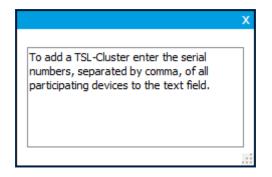


Figure 5.14: Note for adding a TSL-Cluster

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.

Group:TSL MaLe +	
Group name: TSL MaLe	Remove group Duplicate group
Members	Tasks Time schedule
Identified by S/N Serial number(s):	V Active
Add device	Task-Order 💌 🔺
	Jownload data - inactive
	active Convert data - inactive
bbA	Set time - inactive
Add	📋 Delete data - inactive
Remove	🚥 Reset trigger counter - inactive
	Update configuration - inactive
	≶ Update firmware - inactive
	🗊 Update licenses - inactive
	Download bugreport - inactive

Figure 5.15: Button [Add device]

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

Name	IP	Connec	S/N	S
≟ bPRemote_HKu ∄ 🚮 MaLe_TSL_blau (2)	10.23.224.202		1005960	
🗄 😼 MaLe_TSL_gruen (3)				
្លឹ្ក Test_bPRemote	10.23.224.208		1005564	
		Add	Cano	el

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.

Members	
Identified by S/N	•
Serial number(s):	0
Add device	
Add	
Remove	
1001605	
1003695	
	-1

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.

Identified by S/N	•		
Serial number(s):	1		
1000775, 1002321, 1002607			
Add			

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

1000775	
1002321	
1002607	

Figure 5.19: TSL-Cluster in the list

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

t Telemot	ive Download Te	erminal
Logger: MaLe_TSL_gruen @ IP: 75L S/N: 75L Group: TSL MaLe	Download 57% Downloaded: 65 MB / 114 MB Open log	

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.

Members
Identified by IP $\qquad \lor$
IP addresses:
192 . 168 . 0 . 233
Add
Remove
l 192.168.0.9
192.168.0.169

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]**.

Internet Protocol Version 4 (TCP/IPv4)	Properties ? X		
General			
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.			
Obtain an IP address automatical	ly		
• Use the following IP address:			
IP address:	10 . 1 . 255 . 254		
Subnet mask:	255.255.0.0		
Default gateway:	· · ·		
Obtain DNS server address autor	natically		
Ose the following DNS server add	resses:		
Preferred DNS server:			
Alternate DNS server:	•••		
Validate settings upon exit	Advanced		
	OK Cancel		

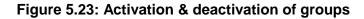
Figure 5.22: Change IP settings

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.

Tasks	Time schedule
V	Active
	Task-Order 💌 🔺
1.0	





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

Options		×	
General Download Conversion Configur	ation Online-Monitor	Q Filter (Ctrl+F)	
Group name: New Members Default This group contains all devices that are not assigned to a group.	Remove group Duplicate group Tasks Time schedule Image: Convert data - inactive Image: Convert data - inactive Download data - inactive Image: Convert data - inactive Download data - inactive Image: Convert data - inactive Delete data - inactive Image: Convert data - inactive Delete data - inactive Image: Convert data - inactive Delete data - inactive Image: Convert data - inactive Image: Convert data - inactive Image: Convert data - inactive Image: Convert data - inactive Image: Convert data - inactive Image: Convert data - inactive Image: Convert data - inactive Image: Convert data - inactive Image: Convert data - inactive Image: Convert data - inactive Image: Convert data - inactive Image: Convert data - inactive Image: Convert data - inactive Image: Convert data - inactive Image: Convert data - inactive Image: Convert data - inactive Image: Convert data - inactive Image: Convert data - inactive Image: Convert data - inactive Image: Convert data - inactive Image: Convert data - inactive Image: Convert data - inactive Image: Convert data - inactive Image: Convert da		
		OK Apply Cancel	

Figure 6.1: The task list

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

Download data

Active

Download	data	4
	Download	Download data

Tasks Time schedule				
Active				
Task-Order 💌 🔺	Download data			
Download data - active	✓ Active			
Convert data - inactive	Target			
Set time - inactive	Base directory:			
Market trigger counter - inactive	Variable target path/name: Offline_%N_%T ?			
Update firmware - inactive Update licenses - inactive Download bugreport - inactive	e.g.: Offline_BP2-M-X-123_20150206_162354_20150206_180512.zlp			
	Check available disk space before download			
Standard-Download Live-Download				
	Saving mode 🔘 sorted 🖲 unsorted			
	Data selection			
	(e) All data			
	O Marker data			
	Start of data block End of data block			
	Start of section End of section			
	20 sec. before marker 20 sec. after marker			
	Next marker or info entry*			
	with text:			
	* Selection ends at end of section,			

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.

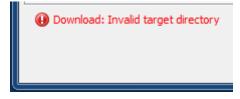


Figure 6.4: Note at the footer

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.

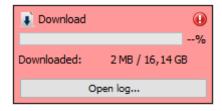
As an option, a check of the disk space before the download can be activated.

Check available disk space before download

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:



🗟 Download-Log TSL_blue	×
2020-09-08 14:58:41 Download task started	
2020-09-08 14:58:59 Combine databases for TSL	
2020-09-08 14:59:01 Determine trace files	
2020-09-08 14:59:04 Store configuration files	
2020-09-08 14:59:04 Download started	
2020-09-08 14:59:22 Download aborted	
2020-09-08 14:59:22 Offline data stored at: D:\Downloads_TDT/Offline_TSL_blue_20200828_085712_20200908_145847_(Aborte	ed).zip
2020-09-08 14:59:22 [ERROR] Insufficient disk space for configured target directory.	
2020-09-08 14:59:25 Download task finished	

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.

ta selection	
🔿 All data starti	ng
Ourrent data	0 seconds ahead of task start
	des Loggers werden beim Download nicht auf die sich aus dieser
Einstellung ergebe exakt eingehalten	ende Startzeit zurechtgeschnitten. Die Startzeit kann also nicht werden
exakt einnenalten	
exakt eingenaiter.	
2	downloads all data from the device. A periodical check adds new captured files to the
this mode the task t of files to be dowi	downloads all data from the device. A periodical check adds new captured files to the nloaded. Pressing the appropriate Button will terminate the download process. All files me will be downloaded.

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.

		🗼 Live Download	Ċ
IP:	TSL_blue 🍪 <i>TSL</i>	Downloaded: 69 MB / 69 MB	99%
S/N: Group:	<i>TSL</i> Blue	Terminate download	
		openiogin	

Figure 6.8: Live-Download started

		🔹 Live Download 🛛 🤣	
IP:	TSL_blue 🤣 <i>TSL</i>	Downloaded: 69 MB / 69 ME	99% 3
S/N: Group:	<i>TSL</i> Blue	Terminate download	77
		Open log	

Figure 6.9: Finish Live-Download

	🔹 Live Download	
Logger: TSL_blue 🛛 📀		%
IP: TSL	Downloaded: 77 MB / 77 MB	
5/N: TSL		_
Group: Blue	Download terminated	
Device can be removed.	. Open log	

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.

Data selection	
All data	
Marker data	
Start of data block	End of data block
Start of section	End of section
20 sec. before marker	20 sec. after marker
	Next marker or info entry*
	with text:
	* Selection ends at end of section,
	with text:

Figure 6.12: Data selection

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.2 Convert	ing data 💶
asks Time schedule	
Active Task-Order Download data - inactive Convert data - active Convert data - active Set time - inactive Delete data - inactive Update configuration - inactive Update configuration - inactive Update firmware - inactive Update licenses - inactive Download bugreport - inactive Download bugreport - inactive	Convert 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.

6	Convert offline data downloaded before	e (will be executed last)
•	Convert data: Download not activated	

Figure 6.14: Warning when Download is not activated

nvorting data

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

Convert data	
Active	
General ⁹ =ormats	
Analog-in V 🔿 # 1 O all channels add import	
Analog-in	
CAN	
CCP_XCP	
Camera	
Digital-in	
ECL	
Ethernet	
Ethernet Spy	
FlexRay	
GPS	
LIN	
MOST150 CTRL	
MOST150 MDP	
MOST150 MEP	
MOST150 STREAM	
MOST25 CTRL	
MOST25 MDP	
Serial	
Signal based filter	
USB	

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)

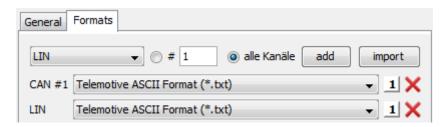


Figure 6.16: channel settings

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.

Convert data	
Active	
General Formats	
CAN v (1) # 1 all channels add	import
CAN #1 CANoe ASCII Format (*.asc)	~ <u>N</u> ×
	Select Color-ID/ file assignment
	×)

Select Color-ID
Data of channels with the same color assignment is written to a shared output file. If you want to write a separate file per channel select the symbol with "1".
Color value
Extended
Choosen color id: 1 (separate file) Apply Cancel

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 🕓

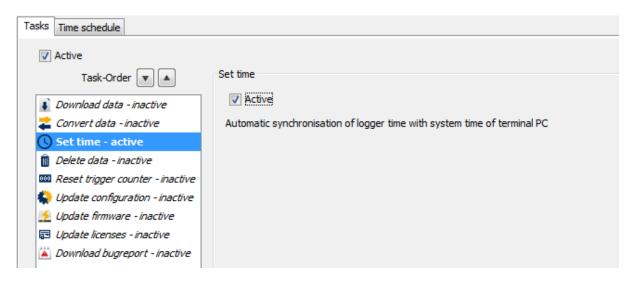


Figure 6.18: Task: Set time

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

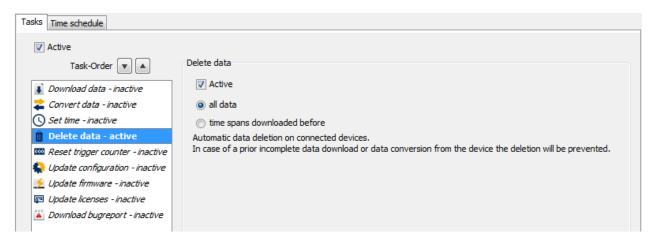


Figure 6.19: Task: Delete data

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

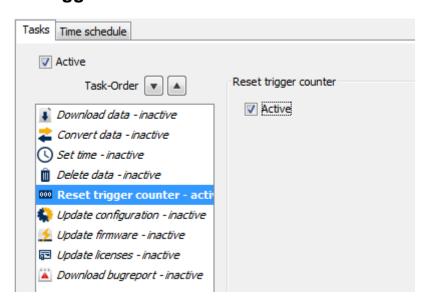


Figure 6.20: Task: Reset trigger counter

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

6.6 Update configuration 🏶

Tasks Time schedule		
Active		
Task-Order 🔻 🔺	Update configuration	
Download data - inactive	Active Active	
active Convert data - inactive	Configuration of at least one device type must be specified.	
Set time - inactive	Default configurations	
Delete data - inactive	blue PiraT2:	
🚥 Reset trigger counter - inactive		-
🛟 Update configuration - active	blue PiraT Mini:	
≶ Update firmware - inactive		
Update licenses - inactive	blue PiraT Remote:	
Download bugreport - inactive	blue PiraT Rapid:	
	blue PiraT Collect:	
	TSL:	

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

Tasks Time schedule	
Active	
Task-Order 💌 🔺	Update firmware
Download data - inactive	Active
a Convert data - inactive	
Set time - inactive	Firmware blue PiraT2:
Delete data - inactive	Firmware for other device types:
Reset trigger counter - inactive	
🛟 Update configuration - inactive	Force component update
💋 Update firmware - active	
🗊 Update licenses - inactive	The terminal checks whether the specified firmware packet is newer than the installed one. If so the firmware will be updated
👗 Download bugreport - inactive	automatically.

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

Tasks Time schedule	
Download data - inactive	Jpdate 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

Tasks T	îme schedule		
V Ac	tive		
	Task-Order 💌 🔺	Download bugreport	
J D	ownload data - inactive	Active Active	
🔷 🤹 a	onvert data - inactive	Only store bug report if a device is currently in error state.	
() Se	et time - inactive	Channel and Channe	
D D	elete data - inactive	Storage path:	
000 R	eset trigger counter - inactive	Append subdirectory with logger name to storage path	
🤤 U,	pdate configuration - inactive	Append subdirectory with IP address to storage path	
🔰 U,	pdate firmware - inactive		
🖬 U)	pdate licenses - inactive		
📓 D	ownload bugreport - activ		

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.

Tasks		
	Task order 💌 🔺	

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].

Group name	CS		Remove group		Duplicate 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.

Group: CS	
L L	15
Group name	Create 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.

Tasks Time schedule	
Time period	
Time scheduling active	
	ted interval the terminal software acts just as with deactivated time scheduling. That is, every logger detection within the stated tivated tasks. If a device shall be processed only once per inteval, select the appropriate option below.
Repetition: None 🗸	
Start	End
Day: Fri 05/18/2018	Day: Fri 05/18/2018
Time: 00:00	Time: 23:59
Process activated tasks only once pe	r interval

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*.**

None	•
None	
Daily	~
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.**

File Tools Window Help			
t Telemotive	Download Termi	Manual Settings Start terminal	
٠			Þ
C Kompakte Ansicht	Status all tasks	👻 🕕 0 / ⊘ 0 / 🕥 0 🛛 Details	

Figure 7.1: The Terminal window

Ba activating the button Start terminal is starting and is waiting to identify devices in the network.

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

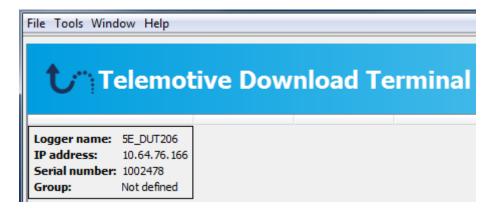


Figure 7.2: An identified device which is in no group

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

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 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] I 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 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.

> Telemotive System Client 2.3	3.0.14				
File Tools Window Help					
℃ ∵Telemot	ive Download Te	erminal			Manual 🕜
Logger name: CS-bP-2_M150 IP address: 192.168.0.233	Download	Set time	🗓 Delete data	🚥 Reset trigger	FW-Update
Logger name: 5E_DUT206 IP address: 10.64.76.166					
 ✓ Kompakte Ansicht 	III		Stat		/ ⊘ 0 / ② 0 Details

Figure 7.5: Identified from a defined group

Index

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.

Logger name: IP address:	CS-bP-2_M150 192,168.0.233	Download	Set time	📋 Delete data	🚥 Reset trigger	✓ FW-Update
Serial number: Group:		Initialising	Open lo	Open log	Open log	Open log
	CS-bP-2_M150	🚯 Download 📀	🕓 Set time 🤣	📋 Delete data	🚥 Reset trigger	🗲 FW-Update
IP address: Serial number:	192.168.0.233 1002572	Downloaded: 388 kB / 388 kB	In progress			%
Group:	CS	Open log	Open lo	Open log	Open log	Open log
Logger name: IP address:	CS-bP-2_M150 192.168.0.233	Download	🕓 Set time ⊘	📋 Delete data 🛛 🛷	🚥 Reset trigger	5 FW-Update
Serial number:	1002572	Downloaded: 388 kB / 388 kB	Done	In progress		%
Group:	CS	Open log	Open lo	Open log	Open log	Open log
		[]			1	(]
	CS-bP-2_M150	Download	🕓 Set time ⊘	🗓 Delete data 📀	🚥 Reset trigger 🤣	5 FW-Update
IP address: Serial number:		Downloaded: 388 kB / 388 kB	Done	Done	In progress	%
Group:	CS	Open log	Open lo	Open log	Open log	Open log
	CS-bP-2_M150	Download	🕓 Set time ⊘	📋 Delete data 💿	🏧 Reset trigger ⊘	🛃 FW-Update 🛛 🐵
IP address: Serial number:		Downloaded: 388 kB / 388 kB	Done	Done	Done	Initialization
Group:	CS	Open log	Open lo	Open log	Open log	Open log

Logger name: CS-bP	-2_M150	i Ø	🕓 Set time 📀	📋 Delete data 🛞	🚥 Reset trigger 📎	🗲 FW-Update 🛛 📀
	68.0.233	% 388 kB / 388 kB	Done	Done	Done	done%
Group: CS		Open log	Open lo	Open log	Open log	Open log

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.

Logger name: CS-bP-2_M150		🕓 Set time ⊘	📋 Delete data 🛛 🍪	🚥 Reset trigger	🔀 FW-Update
IP address: 192.168.0.233 Serial number: 1002572 Group: CS	Downloaded: 479 kB / 479 kB	Done	In progress	Aborted	%
Group: CS Device occupied by "qi 108 16"	Open log	Open lo	Open log	Open log	Open log

Figure 7.7: An error during processing

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

- 🚇 failed tasks
- Successful tasks
- 0 prevented tasks



Figure 7.8: Status display

The status display can be filtered by several time settings:

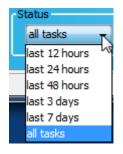


Figure 7.9: Filtering the status display

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

Time stamp Name S/N Image: Constraint of the stamp S/N Image: Constraint of the stamp Constr	Terminal history												
Time stamp Name S/N Image of the stamp of the	Edit												
۳ ۲	Edit Time stamp 2016-02-04 17:47:51 2016-02-04 17:47:51	CS-bP-2_M150	1002572	0	-	0	0	0	-	Ø	-	•	Group: CS S/N: 1002572 Connected: 2016-02-04 17:47:51 Disconnected: n/a Log: 2016-02-04 17:47:57 Time synchronization: Task started 2016-02-04 17:48:03 Time synchonization successfull 2016-02-04 17:48:03 Synchronizing done >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
													· · · · · · · · · · · · · · · · · · ·

Figure 7.10: Terminal history

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

```
Logger:
         CS-bP-2_M150
Group:
        CS
5/N:
        1002572
Connected: 2016-02-04 17:47:51
Disconnected: n/a
Log:
2016-02-04 17:47:57 Time synchronization: Task started
2016-02-04 17:48:03 Time synchonization successfull
2016-02-04 17:48:03 Synchronizing done
2016-02-04 17:48:04 Delete data...
2016-02-04 17:48:08 Data successfully deleted
2016-02-04 17:48:08 Data deletion done
2016-02-04 17:48:09 Reset trigger counter: Task started
2016-02-04 17:48:11 Reset trigger counter successfull
```

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:

🚆 Terminal history	
Edit	
Delete entire history	/
Delete entries	older 3 days
2010-02-04 17:47:51	older 1 week
2016-02-04 17:47:51	5E older 2 weeks
	odler 3 weeks
	older 4 weeks
	older 1 year
	user defined

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	Processing Information Recording Analyzing Tool
bP	BLUEPIRAT
bP2	BLUEPIRAT2
bP2 5E	BLUEPIRAT2 5E
bPMini	BLUEPIRAT Mini
RC Touch	Remote Control Touch
bP Remote	BLUEPIRAT Remote
A2L	ASAM MCD-2 MC Language
AE	Automotive Electronics
ACK	ACKnowledged
CAN	Controller Area Network
CCP	CAN Calibration Protocol
CF	Compact Flash
CRO	Command Receive Object
DAQ	Data Acquisition
DTO	Data Transmission Object
ECL	Electrical Control Line
ECU	Electronic Control Unit
FIBEX	Fleld Bus Exchange Format
FW	Firmware
GMT	Greenwich Mean Time
INCA	INtegrated Calibration and Application Tool
LAN	Local Area Network = Netzwerk
LIN	Local Interconnect Network
MAC	Media Access Control
MCD	Measure Calibrate Diagnose
MDX	Meta Data EXchange Format
MEP	MOST Ethernet Packet
MOST	Media Oriented Systems Transport (<u>www.mostnet.de</u>)
ODT	Object Descriptor Table
ODX	Open Data EXchange
OEM	Original Equipment Manufacturer
PHY	PHYsical Bus Connect
PW	Passwort
RX	Receiver Data
SD	Secure Digital
SFTP	Secure File Transfer Protocol
SHA	Secure Hash
SSL	Secure Sockets Layer
TCP/IP	Transmission Control Protocol/Internet Protocol
TLS	Transport Layer Security
ТМР	Telemotive Packetformat
TSL	Telemotive System Link
UDP	User Datagram Protocol
USB	Universal Serial Bus

UTC	Universal Time, Coordinated
Wi-Fi WLAN	Wireless Fidelity Wireless Local Area Network
ХСР	Universal Measurement and Calibration Protocol

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