



# Connected-Gateway MLBevo User Guide

Version 3.4.1 / 22.01.2019



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## 2 PRODUCT LIABILITY

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### 3 Overview

This user guide describes the feature of the license **Connected-Gateway MLBevo** for the data loggers

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

of MAGNA Telemotive GmbH. These data loggers are supporting logging of data of the ATOP control unit MLBevo via USB.

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. A 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](#).

### License

For the additional feature **Connected-Gateway MLBevo** 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)

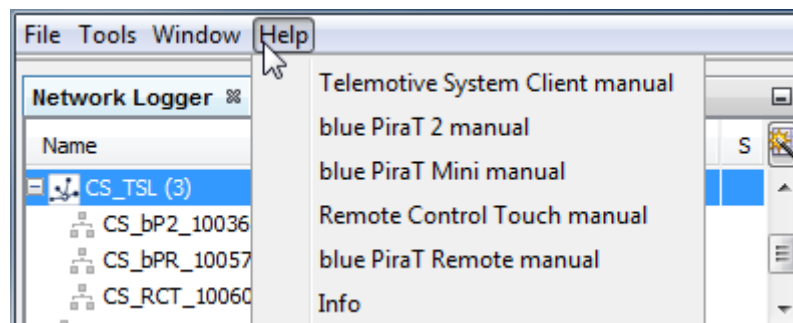
### User manual for Remote Control Touch

[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**.

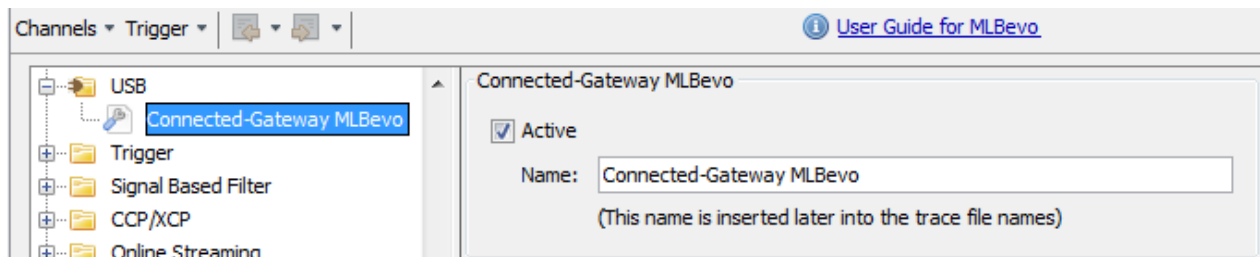
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## 5 Configuring

The license **Connected-Gateway MLBevo** enables the recording of data of the ATOP control unit MLBevo via USB to the Telemotive data logger and convert these data with the Telemotive System Client.

When the license is installed, the folder **[USB]** contains the subcategory **[Connected-Gateway MLBevo]**.

Here you can activate the feature and give the trace a specific name, which is inserted to the trace file name later.



**Figure 5.1: Activating the Connected-Gateway MLBevo**

By pressing **[Write to logger]** the configuration will be transferred to the logger and is immediately active. When the control unit is connected and active the logger starts up from this point recording the incoming data.

[Write to logger](#)

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## 6 Downloading and converting the data

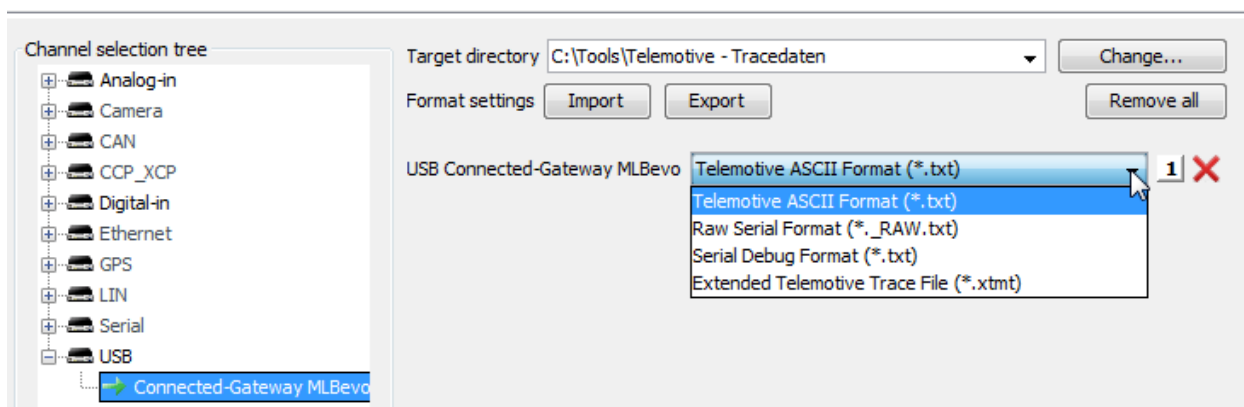
This chapter describes the data download and conversion of the recorded data. For more information about download and converting data please have a look at the **User manual for the Telemotive System Client**.

The Telemotive System Client allows to save the recorded data as offline data set from the logger on the computers disk to use it later or to convert the data directly from the logger.

In the “Channel selection tree” you’ll find these data in **[USB] → [Connected-Gateway MLBevo]**.

Data, which were recorded from the **Connected-Gateway MLBevo** can be converted into these formats:

- Telemotive ASCII Format (\*.txt)
- Raw Serial Format (\*.RAW.txt)
- Serial Debug Format (\*.txt)
- Extended Telemotive Trace File (\*.xtmt)



**Figure 6.1: Converting the data**

## 7 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> C <b>K</b> nowledged
<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> N <b>T</b> egrated <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>Recei</b> ver Data
<b>SD</b>	<b>Secure</b> Digital
<b>SFTP</b>	<b>Secure</b> File Transfer Protocol
<b>SHA</b>	<b>Secure</b> Hash
<b>SSL</b>	<b>Secure</b> Sockets Layer
<b>TCP/IP</b>	<b>Trans</b> mission Control Protocol/ <b>Inter</b> net Protocol
<b>TLS</b>	<b>Trans</b> port Layer Security
<b>TMP</b>	<b>Telemotive</b> Packetformat
<b>TSL</b>	<b>Telemotive</b> System Link
<b>UDP</b>	<b>User</b> Datagram Protocol
<b>USB</b>	<b>Univer</b> sals Serial Bus
<b>UTC</b>	<b>Univer</b> sals Time, Coordinated
<b>Wi-Fi</b>	<b>Wire</b> less Fidelity
<b>WLAN</b>	<b>Wire</b> less Local Area Network
<b>XCP</b>	<b>Univer</b> sals Measurement and Calibration Protocol

**Table 7.1: Abbreviations**

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## 10 Contact



### MAGNA Telemotive GmbH

Office München  
Frankfurter Ring 115a  
80807 München

Tel.: +49 89 357186-0  
Fax.: +49 89 357186-520  
E-Mail: [TMO.info@magna.com](mailto:TMO.info@magna.com)  
Web: [www.telemotive.de](http://www.telemotive.de)

Sales  
Tel.: +49 89 357186-550  
Fax.: +49 89 357186-520  
E-Mail: [TMO.Sales@magna.com](mailto:TMO.Sales@magna.com)

Support  
Tel.: +49 89 357186-518  
E-Mail: [TMO.productsupport@magna.com](mailto:TMO.productsupport@magna.com)  
ServiceCenter: <https://sc.telemotive.de/bluepirat>

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