



blue PiraT2 / 5E / Mini MOST150 Streaming User Guide

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3 Overview

This user guide describes the feature of the license **MOST150 Streaming** for the data loggers

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

of Telemotive AG. This license enables the logging of:

- MOST150 synchronous/isochronous data
- MOST150 allocation messages without streaming data

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 **MOST150 Streaming** 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.

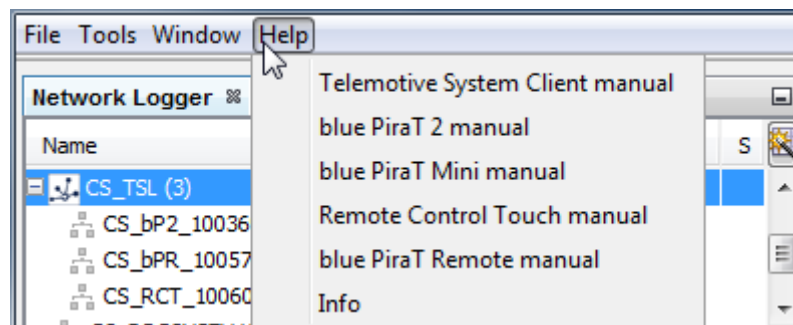


Figure 4.1: links to the manuals

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 Configuring

To activate the recording of MOST150 synchronous/isochronous data, the feature has to be active in the configuration. This activation is done by selecting the checkbox **Streaming channel active** in the configuration menu at **[MOST] → [MOST150]**.

It is also possible to log only the allocation messages without the streaming data with the checkbox underneath.

The screenshot shows the 'MOST150' configuration window. Under the 'MOST150' section, the following options are listed:

- Wakeup system
- Keep awake on busload
- Control channel active
- Streaming channel active** (highlighted with a red box)
- Only record allocation messages
- Network status active
- Packet channel active

Below these options is the 'Packet channel' section, which is divided into two panels:

- MDP channel (MOST Data Packets):**
 - MDP channel active
 - Limit message length: max. Quadlets (3...512)
 - MDP filter active
 - Table with columns: Source address (hex), Target address (hex). Row 1: 0, 0.
- MEP channel (MOST Ethernet Packets):**
 - MEP Channel active
 - Limit message length: max. Quadlets (3...512)
 - MEP filter active
 - Table with column: Target address MAC (hex). Row 1: 0.

Figure 2: activating the streaming

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6 Converting the data

The conversion of MOST150 streaming data can be performed either directly from the logger or offline with an offline data set. If the logger or the offline data set contains MOST150 streaming data, a submenu “STREAM” will appear in the channel selection tree within the entry [MOST150].

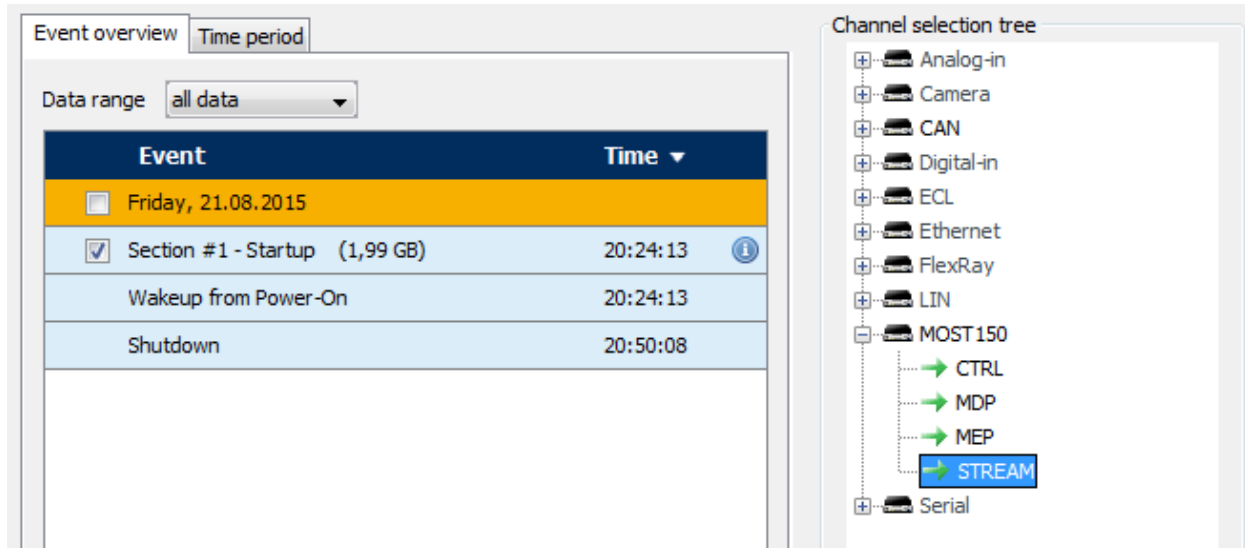


Figure 3: conversion

6.1 Format selection

If you select the “STREAM” channel, the standard target format for the conversion will be displayed. You can select the following target formats:

- Binary Logging Format (*.blf)
- MOST Data Analyser Format (*.img)
- Isochronous raw format (*.ts)
- Extended Telemotive Trace File (*.xtmt)

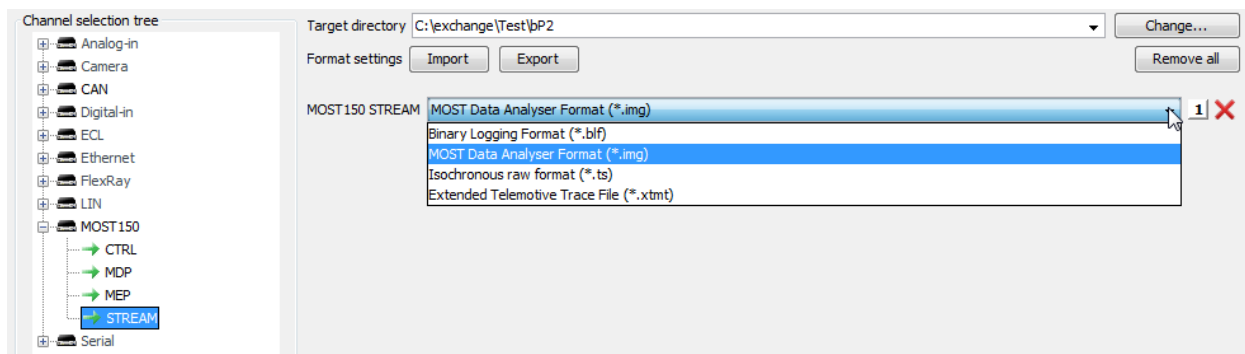


Figure 4: format selection

The distinction between synchronous and isochronous data is done only during the conversion by the analysis of the streaming data. The Isochronous raw format (*.ts) can only save isochronous data. Therefore, this format should be selected only if it is ensured that such data has been sent through the streaming channel. If there are no data available, no output file is written.

6.2 Setting the channel width

The identification of the isochronous channels is performed by the channel width. The channel width can be appointed in **[Tools] → [Settings] → [Conversion] → [Specific Format Settings]** by using the buttons **[Add]** or **[Remove]**.

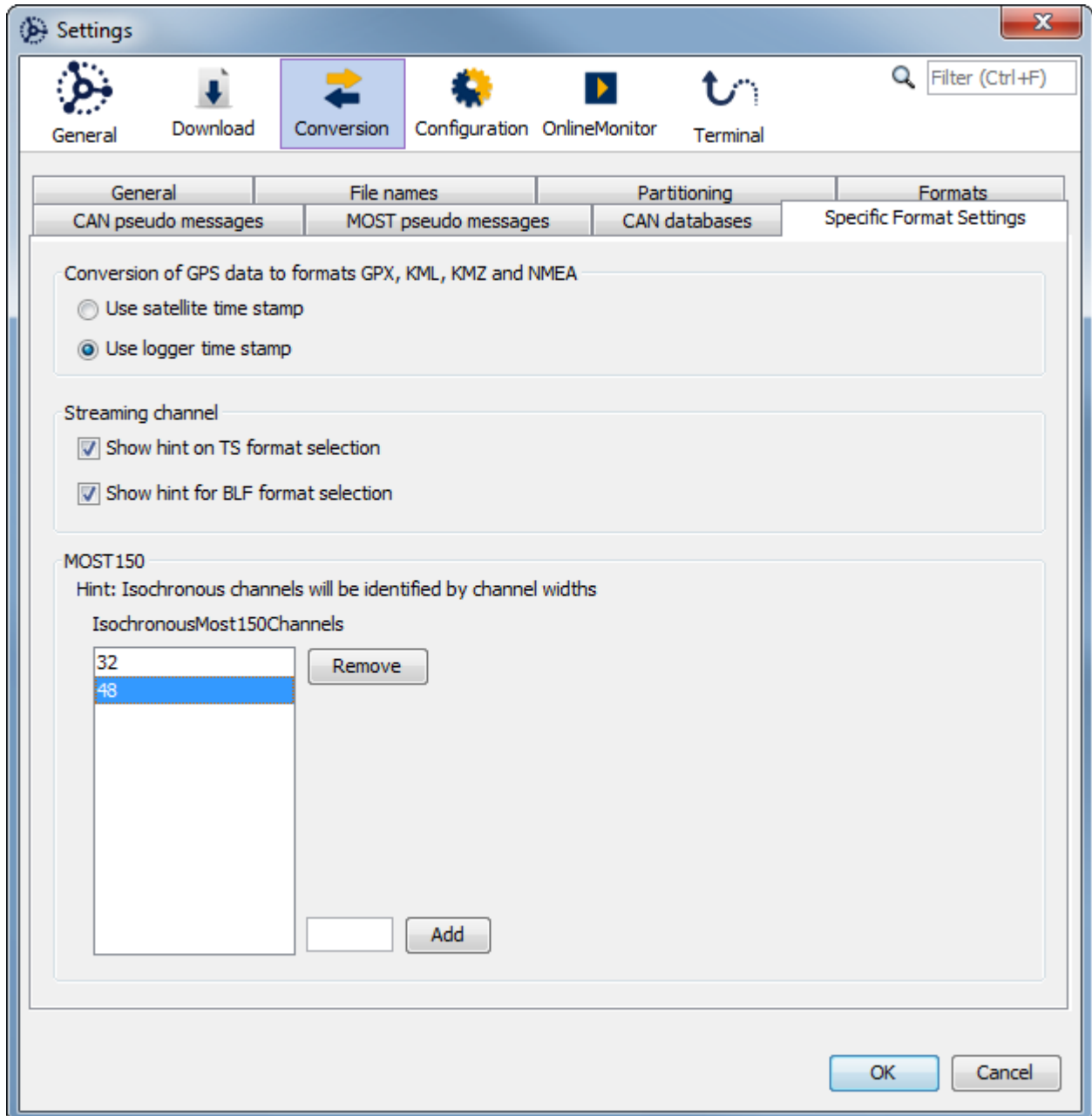


Figure 5: Setting the channel width

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7 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 C K nowledged
CAN	C ontroller A rea N etwork
CCP	C AN C alibration P rotocol
CF	C ompact F lash
CRO	C ommand R eceive O bject
DAQ	D ata A cquisition
DTO	D ata T ransmission O bject
ECL	E lectrical C ontrol L ine
ECU	E lectronic C ontrol U nit
FIBEX	F ield B us E xchange F ormat
FW	F irmware
GMT	G reenwich M ean T ime
INCA	I N T egrated 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	Recei ver Data
SD	Secure Digital
SFTP	Secure File Transfer Protocol
SHA	Secure Hash
SSL	Secure Sockets Layer
TCP/IP	Trans mission Control Protocol/ Inter net Protocol
TLS	Trans port Layer Security
TMP	Telemotive Packetformat
TSL	Telemotive System Link
UDP	User Datagram Protocol
USB	Univer sals Serial Bus
UTC	Univer sals Time, Coordinated
Wi-Fi	Wire less Fidelity
WLAN	Wire less Local Area Network
XCP	Univer sals Measurement and Calibration Protocol

Table 7.1: Abbreviations
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