blue PiraT2
ESO Trace User Guide
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3. Overwiev

The "ESO Trace" feature of the blue PiraT2 enables the following options:

- Logging of ESO Trace Ethernet data
- Conversion of recorded data into JSON format

A license is required to use the ESO Trace feature. All steps can be performed only with a valid license.

With the ESO Trace license it is possible to log Ethernet raw data, especially coming from an ESO Trace Device (e.solution Tracing Framework device). The logger is part of a client-server architecture where the blue PiraT2 is the client that logs the TCP-raw ESO Trace stream.

This quick reference guide only describes the configuration and usage of ESO Trace logging. For more information about Ethernet logging please have a look at the blue PiraT2 manual.

This document refers to blue PiraT2 FW 01.09.01 and blue PiraT2 client version 1.9.1. Some features depending on model and feature license or may not be available in older versions.

Software updates are frequently available in the blue PiraT Service Center. Please make sure to use current software.

4. System requirements

Control Unit

A Laptop or a PC is used to configure the devices by a software client. It also allows to save the recorded data and to use them offline.

blue PiraT2

The blue PiraT2 is an optimized data logger developed by Telemotive AG. The communication of bus systems and control units are monitored and relevant data can be recorded very precisely with the blue PiraT2. The collected data are stored on the blue PiraT2 and can be downloaded to a PC.

License

The ESO Trace function works on any blue PiraT2 system. However, it is necessary to install a special license for this feature. For further information about licenses and license handling please have a look at the blue PiraT2 manual.

blue PiraT2. The collected data are stored on the blue PiraT2 and can be downloaded to a PC

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5.   Configuration

For the configuration of the ESO Trace feature, a connection to the data logger is required. Please connect the data logger to your computer and start the client.

In the client please open the logger configuration and choose the sub menu "Ethernet" from the selection tree.
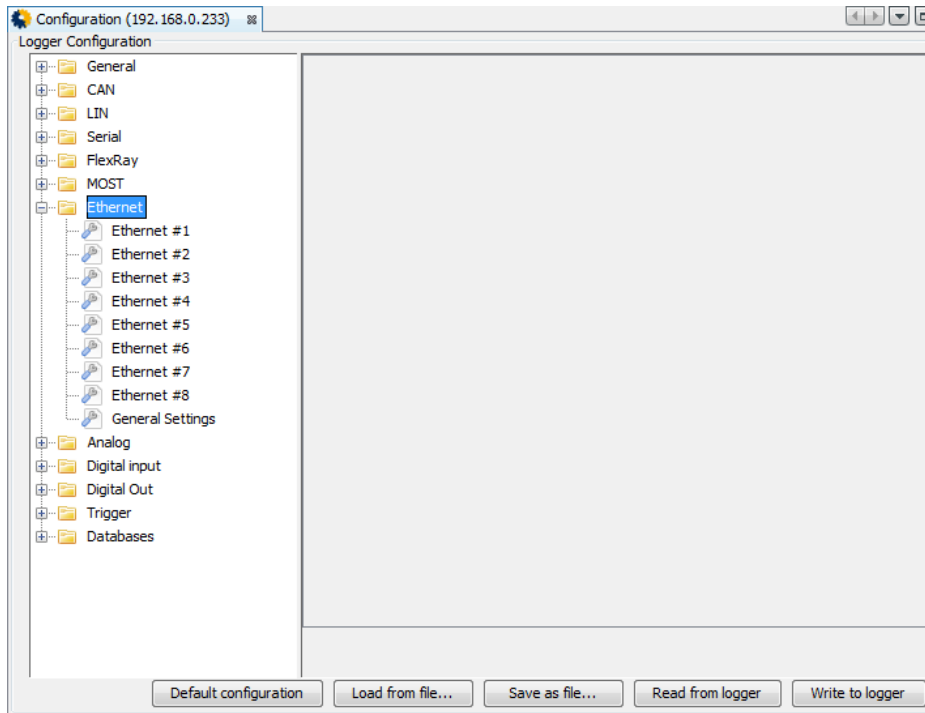

The complete data logger configuration can be managed by following buttons:

Default configuration	Load a default configuration
Load from file	Load data from a locally stored configuration file
Save as file	Save the current configuration to a local file
Write to logger	Send the configuration to the connected data logger

The configuration is applied immediately

5.1.   Configuration menu

In the client the configuration of the logger must be opened to configure the ESO Trace function. If the license has been installed properly, the selection tree shows the entries "Ethernet #1 to #8". In the "Protocol" dropdown menu the entry "ESO Trace" is now available.
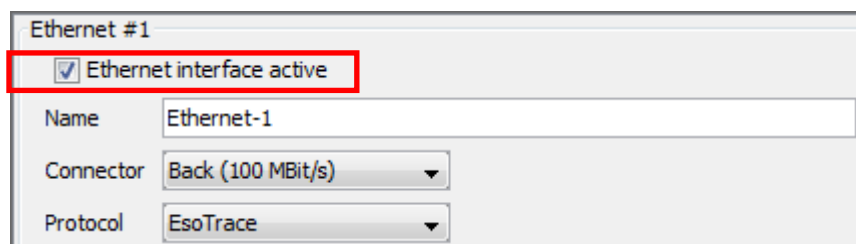
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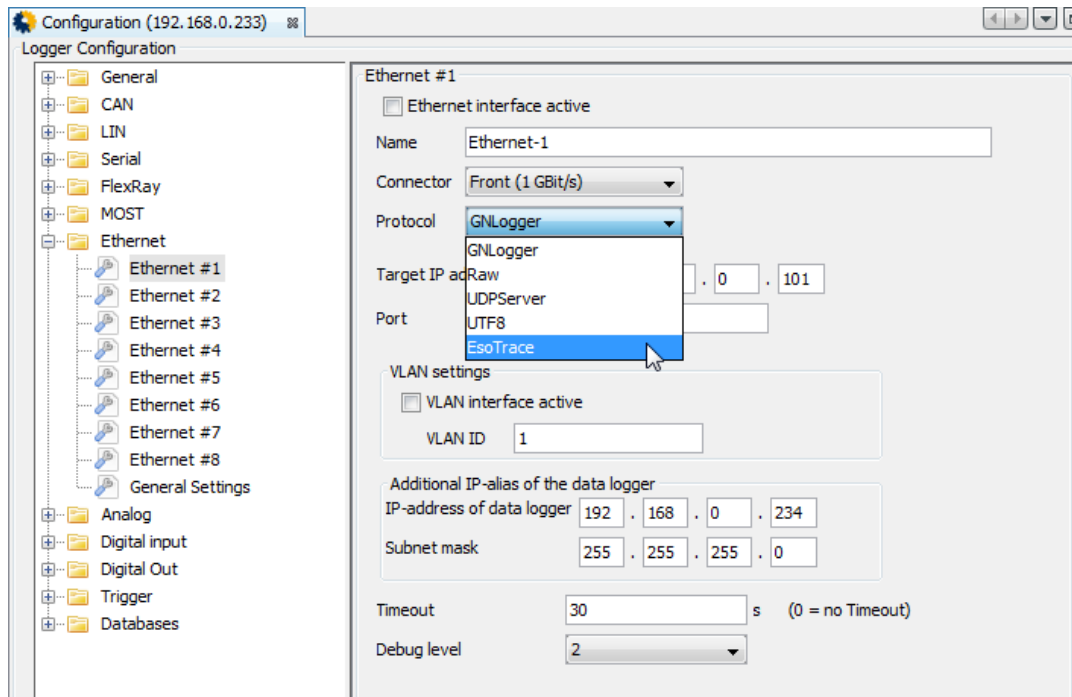
5.2. Configuration of an Ethernet Channel for ESO Trace

In the blue PiraT2 there are 8 channels available for the ESO Trace configuration. Each channel can be configured for logging ESO Trace.

5.2.1. Activate Ethernet interface

Each Ethernet interface that will be used for logging can be activated or deactivated separately.

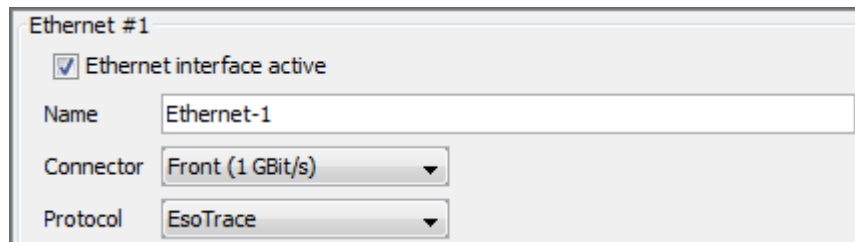### 5.2.2. Name, Connector and Protocol

Name:

You can configure a new name for each Ethernet channel.

Connector:

- Front Connector (1GBit/s): The Front Connector is used to log the ESO Trace data. Ethernet data will be stored in the chosen blue PiraT2 Ethernet channel.
- Back Connector (100MBit/s): The Back Connector is used to log the ESO Trace data. Ethernet data will be stored in the chosen blue PiraT2 Ethernet channel.

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Protocol:

For the ESO Trace configuration please choose the "EsoTrace" protocol from the dropdown menu.

5.2.3.   Target Configuration

Target IP address / port:

Configure the target IP address and the port of the device the blue PiraT2 should establish a connection to.

VLAN settings:

If the target device is inside a virtual LAN, the VLAN interface must be activated and the VLAN ID must be configured.
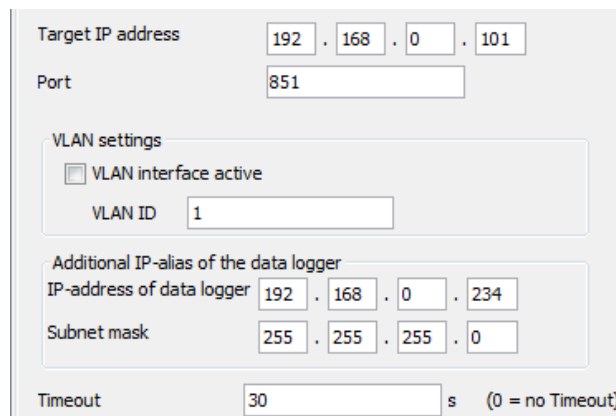
Additional IP-alias of the data logger:

If target IP address and IP address of the data logger (see General/Network settings) are not in the same subnet, you have to configure an "Additional IP-alias" which is in the subnet of the target device.

Note:

The IP address of the data logger and the IP address of the target device have to be in the same subnet.

Timeout:

This parameter configures the period after a reconnect to the target device follows. If there is a defined period no data received (timeout) this will be detected by the blue PiraT2 and a new connection will be established. For example: If there is no ESO Trace data detected by the blue PiraT2 for 30 seconds a reconnect will be started.

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If everything is configured correctly the configuration has to be written to the data-logger (button "Write to logger").

6.   Data Download & Converting

For data download and converting data please have a look at the blue PiraT2 manual.

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7.   Contact

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