



# **blue PiraT**

**User's Manual**

License

Online Compression

**Version: 1.0**

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# 1 Introduction

## 1.1 Overview

With the online compression license it is possible to compress trace data during recording before the data is stored on the datalogger's hard drive. This manual describes the configuration and the overall functionality of the online compression license.

## 1.2 System Requirements

The online compression function works on any blue PiraT system and a recent software. However, it is necessary to purchase a special license for this function. Please read the manual "blue PiraT - How to manage licenses" for more information about handling licenses.

This manual refers to the following software versions:

- Data logger firmware V6.0.1
- Client 3.5.1

Software updates are frequently available in the blue PiraT Service Center. Please make sure you have a current software installed.

## 1.3 Functionality

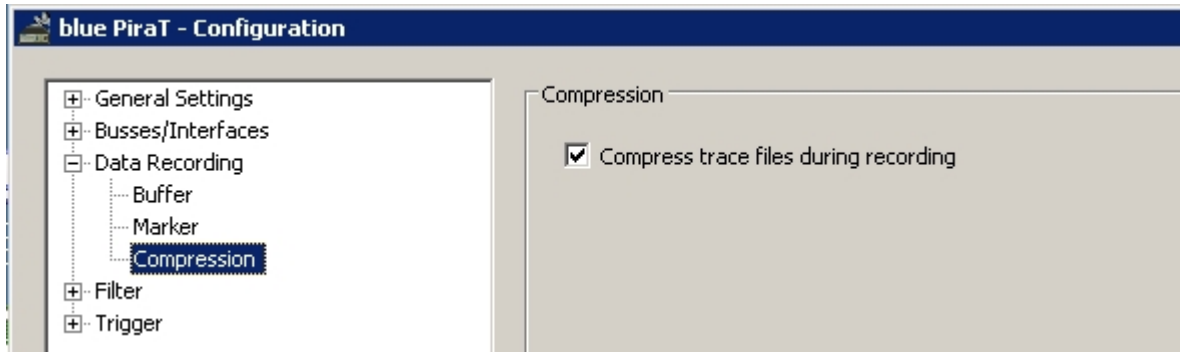
The online compression process reduces the required system storage capacity on the blue PiraT and will reduce the download time to transmit the trace data to the PC.

The online compression can be activated and deactivated by the user in the configurator application. The compression parameters cannot be adjusted by the user. The function has been optimized by compression efficiency and process performance.

## 2 Configuration

The configuration application must be started to configure the online compression function. If the license has been installed correctly, the selection tree on the left hand side shows the entry 'Compression' as an item of the 'Data Recording' settings.

The Online Compression can be selected by the user on the right side hand by setting the check mark (see Figure 1).



**Figure 1: Configuration Online Compression**

All trace data will be stored as compressed data, when the check mark (✓) was activated.

### **Exception:**

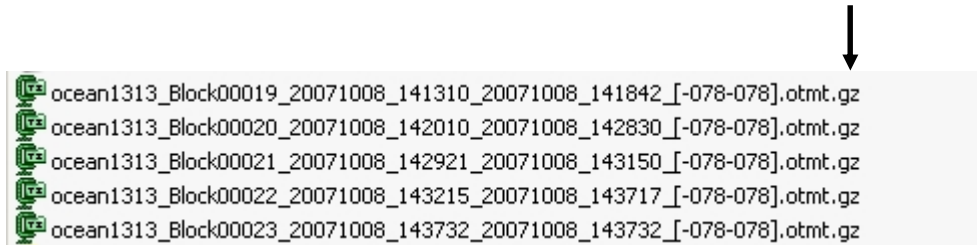
If the processor load exceeds an upper limit value, caused by a high trace data load, the actual data block is finished, the compression is disabled and the trace data is stored in the uncompressed format. Trace data won't be lost by switching of compression.

If the processor load goes below a lower limit value, the Online Compression is reactivated automatically.

### 3 Data Download

The 'Data Transfer and Conversion' application must be started to download the compressed trace data. There are no changes in the data transfer process for the user. All known function are available.

The trace data is be stored on the PC in compressed format (Figure 2) . It is decompressed only during the trace conversion into the target format.



**Figure 2: Example of compressed offline tracedata**