

PI TOOLBOX

TELEMETRY

CONVERTER

Version 1.1 (Build 162) (Beta)

31 March 2026

Abstract:

This document contains information for Pi Toolbox Telemetry Converter, including:

- New features for this version: both complete and currently under development.
- Known issues for this version.
- A complete changelog of work completed up to and including this version.
- The supported operating systems.
- Contact information.

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NEW FEATURES

1.1

- *Added support for automatically loading iRacing track maps when using real-time outings. (Under development)*
- Added support for real-time iRacing telemetry data.
- Added support for automatic crash reporting.
- Upgraded to Marelli telemetry components 4.80.23.06.
- Added support for known quantities and units to the Marelli RCS-TEP input.
- Added support for playing back logged data over telemetry.
- Added support for consuming Pi Telemetry data.
- Added the ability to transmit telemetry data at higher volumes and to a larger number of clients by multicasting the data.
- Added support for decoding Marelli telemetry data.
- Added support for transmitting multicast data using direct connection telemetry, removing the need to create network shares.

KNOWN ISSUES

- It is possible to have more than one entry for Pi Data Access in the list of installed applications. This behavior is by design, and only the most recent version of Pi Data Access will actually be installed. Pi Data Access will only be removed from your PC once all such entries have been removed along with all other Cosworth products that rely on Pi Data Access.



CHANGELOG

1.1 (Build 162) (Beta)

This release contains:

- Data Access: 10.4 (Build 1943) (Beta) - **(Updated)**

Bug fixes included in this release are:

- Fixed an issue that could cause math channels using the rand() function to have a constant values.
- Fixed an issue making it difficult to configure the time interval at which to update logged data.
- Fixed an issue that could prevent real-time outings from connecting when the same source is connected to multiple times in the host application.
- Fixed an issue that could cause crashes when connecting Pi Toolbox to iRacing real-time data.
- Added application version information to diagnostic log files.
- Fixed an issue that prevented double clicking on iRacing Telemetry Converter settings files from loading them in the application.

1.1 (Build 143) (Beta)

This release contains:

- Data Access: 10.4 (Build 1938) (Beta)

1.1 (Build 142) (Beta)

This release contains:

- Data Access: 10.4 (Build 1938) (Beta) - **(Updated)**

1.1 (Build 138) (Beta)

This release contains:

- Data Access: 10.4 (Build 1931) (Beta)

Changes included in this release are:

- Added support for real-time iRacing telemetry data.
- Added support for automatic crash reporting.
- Upgraded to Marelli telemetry components 4.80.23.06.
- Added support for known quantities and units to the Marelli RCS-TEP input.
- Added support for playing back logged data over telemetry.
- Added support for consuming Pi Telemetry data.
- Added the ability to transmit telemetry data at higher volumes and to a larger number of clients by multicasting the data.
- Added support for decoding Marelli telemetry data.
- Added support for transmitting multicast data using direct connection telemetry, removing the need to create network shares.

Bug fixes included in this release are:

- Fixed an issue causing inserted lap markers, and updated lap marker distances to be lost when changing the first lap number. **(Support Issue: 294080)**

- Fixed an issue that could cause real-time outings to drop data if time goes backwards. **(Support Issue: 261907)**
- Fixed various issues when loading real-time data following lap markers. **(Support Issues: 139695, 261921)**
- Fixed an issue with unit conversion parameters being incorrect at the 16th and 17th decimal places. **(Support Issue: 327961)**
- Fixed a crash that could occur when removing a real-time outing. **(Support Issue: Part of 327162)**
- Fixed an issue where real-time data could not be obtained through the RT Reader API. **(Support Issue: 336630)**
- Fixed an issue preventing browsing for the RCS-TEP default logging table path from updating correctly. **(Support Issue: 341989)**
- Fixed a crash that could occur when receiving real-time data. **(Support Issues: 340903, 340798)**
- Fixed issues that could cause crashes when browsing for file paths. **(Support Issue: 341987)**
- Fixed an issue causing constants to become corrupt when received via real-time. **(Support Issue: 349892)**
- Fixed an issue that prevented channel bit-field names from being displayed for older outing files. **(Support Issue: 306912)**
- Fixed an issue causing legacy multicast real-time data to be trimmed incorrectly when using cache file size limiting.
- Fixed an issue that could cause data to be erroneously marked as continuous.
- Fixed an issue causing acos and asin math operators to return NaN when supplied with values < -1 .
- Fixed an issue that could cause crashes when using $\text{poly}([x], 0, 1)$ in math equations.
- Fixed the behavior of bitwise shift math operators at edge cases in math channels.
- Fixed the behavior of cast math operators at edge cases in math channels.
- Fixed an issue causing telemetry data to be combined incorrectly when receiving data from multiple radios.
- Fixed an issue preventing media channels from being added to older .pds files.
- Fixed an issue that could cause telemetry clients to disconnect, resulting in holes in the data.
- Fixed an issue where data from secondary loggers could be missed when performing a combined offload and there is a significant difference in device clock times.
- Fixed an issue that could cause problems with backfilled real-time data.
- Fixed an issue preventing single sample blocks from being treated as continuous.
- Fixed an issue where the system drive was assumed to always be C:.
- Fixed an issue where the reported state would not revert to stopped, when the application stops receiving input data.
- Fixed a crash that could occur when receiving real-time data.
- Fixed an issue that could cause deadlock in a telemetry server if the configured real-time port is already in use.
- Changed the real-time data cache size limit to only be applied to channel data, and no longer include setup and display information.
- Fixed a crash when receiving telemetry data that contained a channel that belonged to multiple channel groups.
- Fixed a crash that could occur when buffering real-time data.
- Fixed a crash that could occur when creating a new Pi Dataset file.
- Fixed a crash that could occur when the outing number changes, and using RT-Direct as the input type.
- Fixed an issue where real-time connections could end up connecting to themselves.
- Fixed an issue preventing double-precision floating point channels from being scaled.
- Fixed an issue that could prevent lap markers from appearing in real-time data when using a legacy multicast connection.
- Fixed an issue that caused an empty dump file to be produced after a crash in the DAE Bug Reports directory.
- Fixed an issue that caused multiple crash report windows to be displayed after a DAE crash.
- Fixed an issue preventing channel names from being able to contain non-Latin characters.
- Fixed an issue that could cause a Watch.exe System Error to be displayed regarding sentry.dll when using Pi BitFields.
- Fixed a crash that could occur when connecting to the Pi Toolbox Telemetry Converter.
- Fixed an issue causing iRacing real-time outings to expose the wrong "Create date" property.
- Fixed an issue causing the iRacing telemetry converter to report an incorrect version number on the about dialog.
- Fixed an issue that prevented "Install Now" or "Install on Close" from closing the application when installing updates.
- Fixed an issue that caused some iRacing torque channels to be incorrectly exposed as pressures.
- Fixed an issue that caused the number of running Watch.exe processes to increase each time a workbook containing bit-fields was opened.
- Fixed an issue with the privacy policy not being linked from the installer.
- Fixed an issue that resulted in two copies of any channel bit-fields being exposed to telemetry clients.
- Added version information to components that weren't exposing it.
- Fixed an issue that prevented iRacing data from being read when outing property values weren't in the expected format.

COMPATIBILITY

The following operating systems are supported:

- Microsoft Windows 11 (64-bit)

CONTACT INFORMATION

For more information about Cosworth products and details of world-wide-authorized agents, please contact:

Cosworth Electronics

Brookfield Technology Centre
Twentypence Road
Cottenham
CAMBRIDGE
United Kingdom
CB24 8PS

Customer Support Tel +44 (0) 1954 253600

Cosworth, LLC

5355 W, 86th St.
Indianapolis
IN 46268
United States

Customer Support Tel +1 (844) 278-6491

Or visit: <https://www.cosworth.com/contact-us/>