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PI TOOLBOX

Version 14.0 (Build 2667) (Beta)

23 October 2025

Abstract:

This document contains information for Pi Toolbox, 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

14.0

- *Added support for automatic crash reporting. (Under development)*
- Added the ability to quickly change the unit system for some commonly used units to the channel properties explorer context menus.
- iRacing .ibt files are now be registered to open in Pi Toolbox by default.
- *Changed Pi Toolbox to run in lite mode with no license available.*
- *Updated the limits enforced by the different license levels. (Under development)*
- Added dash display support for the CGW.
- Added dash display support for shift lights being driven by an LED configuration.
- *Updated the new workbook dialog to show all available templates on the first tab. (Under development)*
- Added support for loading iRacing Ghost Laps.
- Added checks for updated licenses on application startup.
- Added support for transmitting multicast data using direct connection telemetry, removing the need to create network shares.
- Added generation of “Incident” events from iRacing data to indicate when incident points were incurred.
- Improved the performance of the initial load of the displays menu.
- Added indication of which license is required for unlicensed displays to the displays menu.
- *Added support for automatic application updates. (Under development)*
- Added support for AliveDrive outings.
- Added support for loading logged data produced by iRacing.
- Added support for version 5.0 AliveDrive outings.
- Added the ability to change branding from within Toolbox.
  There is now a single installer for the different Toolbox brands.
- Added automatic generation of circuit maps when loading iRacing outings and the track changes.
- Added the ability to delete all worksheets apart from the selected worksheet.
- Added support for displaying values as hexadecimal or binary on the Channel display.
- Added support for displaying raw time values to the Time of Day display.

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KNOWN ISSUES

- Attempting to export a real-time outing whilst it is paused will cause the export to hang with the message “Commencing export...” if any of the channels selected for export have yet to receive any data. To work around this issue, close the export dialog, and then un-pause the real-time outing. The export will then complete in the background.
- Playing a video can sometimes also result in the video being displayed full screen on a secondary monitor. This can occur if the video mirroring feature has been enabled on certain graphics cards. The setting that controls this can often be found under the advanced display properties for the graphics card. Nvidia call this feature “Full Screen Video”, AMD call it “Theatre Mode”, and Matrox call it “PureVideo/DVDMax”.
- Band-pass filters produce incorrect results when evaluated on real-time data.
- It is recommended that Excel based lookup tables and Excel reports be directed to different Excel worksheets to avoid performance issues.
- Comparison of data by distance is only supported by a subset of displays. For example, when the same channel is displayed on both a Time/Distance Chart display and a Dial display, only the value for the current outing will match.
- If the licensing server is reconfigured to disallow remote access then an increase in CPU usage will be noticed in all instances of Toolbox that were connected to the server at the time of the change. This is due to the change preventing Toolbox from acquiring the license from the server.
- The Metric Outing Report does not support min/max value color highlighting.
- There are some small graphical glitches with rendering of the folder structure in the Advanced Math Editor, when that part of the view is too narrow for the contents.
- When highlighting errors in scripts in the Advanced Math Editor, space characters are not always underlined.
- Not all slow laps are removed from the Metric Overview Chart when slow lap filtering is enabled.
- 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.

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CHANGELOG

14.0 (Build 2667) (Beta)

This build contains:

- Core Libraries: 3.3 (Build 834) (Beta)
- Core PC Cpp Components: 6.2 (Build 505) (Beta)
- Data Analysis Libraries: 6.2 (Build 907) (Beta)

Pi Data Access:

- Data Access: 10.4 (Build 1909) (Beta) - **(Updated)**

Changes included in this build are:

- Fixed an issue that prevented iRacing outings from auto-generating maps by default when using the iRacing Lite Workbook.
- Fixed a crash that could occur when selecting a display.
- Fixed an issue that could cause channels to be missing data when using band pass filters. **(Support Issue(s): 365231, 317536)**
- Fixed an issue that could lead to crashes with Toolbox running out of resources.

14.0 (Build 2663) (Beta)

This build contains:

- Core Libraries: 3.3 (Build 834) (Beta) - **(Updated)**
- Core PC Cpp Components: 6.2 (Build 505) (Beta)
- Data Analysis Libraries: 6.2 (Build 907) (Beta)

Pi Data Access:

- Data Access: 10.4 (Build 1908) (Beta) - **(Updated)**

Changes included in this build are:

- Fixed an issue that could cause statistics to report incorrect values when changing the zoom region.
- Fixed an issue that cause stacked outings to report “multiple” for properties that had the same values in all child outings.
- Added the ability to the map properties dialog, and map creation dialogs, to manually configure whether maps can be automatically replaced when loading iRacing outings.
- Manually loaded maps will no longer be automatically replaced by auto-generated maps by default.
- Fixed an issue causing iRacing outings to expose the wrong “Create date” property.
- Improved the error messaging on the marine map display if the GPS data is out of range, or if channel display ranges are invalid.
- Improved the messaging for errors should the application run out of resources, and need to close.
- Fixed an issue that could cause erroneous corner segments to be generated for GPS maps.
- Fixed a crash that could occur when opening the diagnostics dialog on the media display with PDR outings loaded.
- Fixed an issue with the “Check Now” button becoming unresponsive in the Application Updates dialog, and improved overall dialog UI consistency.

Pi Data Access:

- Fixed a crash that could occur when connecting to the Pi Toolbox Telemetry Converter.

14.0 (Build 2653) (Beta)

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This build contains:

- Core Libraries: 3.3 (Build 832) (Beta)
- Core PC Cpp Components: 6.2 (Build 505) (Beta)
- Data Analysis Libraries: 6.2 (Build 907) (Beta)

Pi Data Access:

- Data Access: 10.4 (Build 1906) (Beta) - **(Updated)**

Changes included in this build are:

- Map generation will now place all labels on the inside of the track, to avoid clashing with banding when displaying channels on the map display.
- Added the ability to quickly change the unit system for some commonly used units to the channel properties explorer context menus.
- Fixed an issue causing “Remove unused properties” on the channel properties context menu to also remove properties that were still in use.
- iRacing .ibt files are now be registered to open in Pi Toolbox by default.
- Fixed a crash that could occur when dropping a file onto the task explorer.
- Split markers will now be shown on the Aerial Map display.
- Fixed an issue preventing segments edited on the standard Map display from updating on the Aerial Map display.

Pi Data Access:

- Fixed an issue that could cause a Watch.exe System Error to be displayed regarding sentry.dll when using Pi BitFields.

14.0 (Build 2649) (Beta)

This build contains:

- Core Libraries: 3.3 (Build 832) (Beta)
- Core PC Cpp Components: 6.2 (Build 505) (Beta)
- Data Analysis Libraries: 6.2 (Build 907) (Beta)

Pi Data Access:

- Data Access: 10.4 (Build 1905) (Beta)

Changes included in this build are:

- Fixed an issue causing automatic map generation to replace manually generated GPS maps for the same track.
- Fixed an issue that could prevent distance scaling from working with real-time data until a lap marker is seen.
- Fixed an issue causing slow outing loads when the previous outing was for a very long track.
- Fixed an issue that prevented lap distance scaling from working for iRacing outings when using locales that don’t use a “.” decimal symbol.

14.0 (Build 2646) (Beta)

This build contains:

- Core Libraries: 3.3 (Build 832) (Beta) - **(Updated)**
- Core PC Cpp Components: 6.2 (Build 505) (Beta)
- Data Analysis Libraries: 6.2 (Build 907) (Beta)

Pi Data Access:

- Data Access: 10.4 (Build 1905) (Beta)

Changes included in this build are:

- Fixed a crash that could occur after unloading the last iRacing outing.

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- Fixed an issue that could cause the first and last sectors of laps to fail to generate values in split reports. **(Support Issue(s): 174741)**
- Fixed a crash that could occur when closing workbooks containing iRacing outings, if the outings hadn't completed loading.
- Fixed an issue that could cause distance scaling to stop working, which could result in data appearing as offset, even when compared against itself.
- Fixed an issue causing workbooks to require saving on close when no changes were made.
- Fixed an issue where Pi Toolbox would crash after downloading an application update using the Install Now button.
- Fixed an issue causing some icons not to be shown in the insert displays menu following a licensing state change.

14.0 (Build 2643) (Beta)

This build contains:

- Core Libraries: 3.3 (Build 831) (Beta)
- Core PC Cpp Components: 6.2 (Build 505) (Beta)
- Data Analysis Libraries: 6.2 (Build 907) (Beta)

Pi Data Access:

- Data Access: 10.4 (Build 1905) (Beta)

Changes included in this build are:

- Car Setup channels will now be available in Lite mode.
- Fixed memory leaks that could occur when using the Navigator display.
- Fixed an issue causing the Image display to render poorly when scaling images.

14.0 (Build 2641) (Beta)

This build contains:

- Core Libraries: 3.3 (Build 831) (Beta) - **(Updated)**
- Core PC Cpp Components: 6.2 (Build 505) (Beta)
- Data Analysis Libraries: 6.2 (Build 907) (Beta)

Pi Data Access:

- Data Access: 10.4 (Build 1905) (Beta)

Changes included in this build are:

- Fixed an issue causing the Web browser display to erroneously be shown as available in lite mode.
- Fixed a crash that could occur when deleting iRacing outings.
- Fixed a crash that could occur when updating Pi Toolbox via the "Download and Install Now" button.

14.0 (Build 2640) (Beta)

This build contains:

- Core Libraries: 3.3 (Build 830) (Beta) - **(Updated)**
- Core PC Cpp Components: 6.2 (Build 505) (Beta)
- Data Analysis Libraries: 6.2 (Build 907) (Beta)

Pi Data Access:

- Data Access: 10.4 (Build 1905) (Beta)

Changes included in this build are:

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- Fixed an issue where the font color for available updates was too light.

14.0 (Build 2639) (Beta)

This build contains:

- Core Libraries: 3.3 (Build 829) (Beta) - **(Updated)**
- Core PC Cpp Components: 6.2 (Build 505) (Beta) - **(Updated)**
- Data Analysis Libraries: 6.2 (Build 907) (Beta) - **(Updated)**

Pi Data Access:

- Data Access: 10.4 (Build 1905) (Beta) - **(Updated)**

14.0 (Build 2638) (Beta)

This build contains:

- Core Libraries: 3.3 (Build 827) (Beta)
- Core PC Cpp Components: 6.2 (Build 504) (Beta)
- Data Analysis Libraries: 6.2 (Build 906) (Beta)

Pi Data Access:

- Data Access: 10.4 (Build 1904) (Beta)

Changes included in this build are:

- Added dash display support for the CGW.
- Added dash display support for shift lights being driven by an LED configuration.
- Changed iRacing driver marker events to only be exposed with a license.
- Fixed an issue that prevented iRacing outings from displaying data when stacked.
- Fixed an issue causing 360Hz iRacing channel data to drift in time relative to 60Hz data.
- Fixed an issue that could prevent automatic map generation from working correctly for iRacing outings.
- Exposed iRacing driver markers as events.
- Exposed iRacing Car Setup properties to Lite users.
- Fixed an issue that could cause ASCII outings to apply incorrect scaling to channel values.
- Added support for non-Latin characters (UTF8 format) to ASCII outings. **(Support Issue(s): 358061)**
- Added support for loading iRacing Ghost Laps.
- Fixed an issue that could slow down the performance of the Add/Replace Outing dialogs.
- Fixed an issue that prevented channels using non-Latin characters from being consumed in math equations.
- Fixed an issue preventing the Aerial Map display from showing maps when the Heading channel is unavailable.
- The Aerial Map display will now show the cursor position based on Lap Distance when GPS data is unavailable, provided a GPS map is loaded. **(Support Issue(s): Part of 341112)**
- Fixed a typo in the Pi Math help files.
- Corrected the track name in the example F1 data.
- Fixed an issue that could cause “<multiple>” to be shown for property values, even with only one value selected.
- Added checks for updated licenses on application startup.
- Added support for transmitting multicast data using direct connection telemetry, removing the need to create network shares.
- Fixed a crash that could occur when refreshing stacked outings.
- Fixed an issue that could cause the outing title to not update when replacing an outing with a stacked outing. **(Support Issue(s): 308222)**
- Corrected iRacing track location bit-fields to report “Pit Entry/Exit”, rather than “Aproaching Pits”.
- Fixed an issue allowing incomplete iRacing laps to be considered for the fastest lap.
- Fixed an issue preventing lap data from being shown if iRacing session time goes backwards.
- Fixed an issue where Aerial Map displays were ignoring discontinuities in data.
- Fixed an issue causing iRacing RPM channels to use the wrong default units.
- Fixed an issue causing iRacing outings to expose invalid GPS channel values.
- Added support for the Time of Day display to iRacing outings.

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- Fixed an issue that prevented the worksheet accent color from being changed.
- Fixed a crash that could occur when generating GPS map if distance values remain constant.
- Added generation of “Incident” events from iRacing data to indicate when incident points were incurred.
- Fixed an issue that could cause combo boxes to not be populated when using keyboard keys to change the value.
- Fixed an issue that could cause workbooks to become corrupt.
- Fixed an issue that could cause spurious short laps to be added for iRacing outings.
- Fixed an issue that could result in no data being shown when the same outing is added twice. **(Support Issue(s): 356519)**
- Fixed an issue that could cause a crash when using the Split report display with AliveDrive outings. **(Support Issue(s): Part of 353848)**
- Fixed an issue preventing lap distance scaling from working with single lap outings.
- Fixed an issue that could cause data to vanish in distance mode when refreshing.
- Fixed an issue that could cause exported lap data to be misaligned in time when compared with the original data. **(Support Issue(s): 354508)**
- Improved the performance of the initial load of the displays menu.
- Added indication of which license is required for unlicensed displays to the displays menu.
- Added support for AliveDrive outings.
- Fixed various issues preventing data from loading correctly. **(Support Issue(s): Part of 341112)**
- Fixed a crash that could occur when using stacked outings and refreshing data.
- Changed iRacing outings to use more sensible defaults for channel and property units.
- Fixed a crash that could occur when loading outings with metric displays visible. **(Support Issue(s): 353479, 349993)**
- Added support for dragging outing files (all supported outing file types), map files (.pxt), or exported worksheet files (.pxp) onto Pi Toolbox to open them.
- Added support for opening supported file types directly from Windows Explorer into Pi Toolbox.
- Improved the performance when adding outings to workbooks containing a significant number of channels.
- Fixed an issue that could cause displays not to show data on workbook load. **(Support Issue(s): 353542)**
- Improved the ability to resize displays on canvas worksheets when they are close to the edge of the worksheet.
- Fixed an issue that could cause attempts to resize displays on canvas worksheets to result in the displays being moved instead.
- Improved the performance of real-time math channels.
- Fixed an issue that could prevent histogram displays from rendering correctly when lots of bins are present. **(Support Issue(s): Part of 341112)**
- Fixed a crash that could occur when opening iRacing datasets containing invalid session information.
- Fixed an issue that could cause math channels not consuming other channels to lose data following a refresh. **(Support Issue(s): 351377)**
- Fixed an issue where watermark text would not wrap.
- Added support for loading logged data produced by iRacing.
- Improved the performance of the drop-down channel lists shown in math and soft event editors. **(Support Issue(s): 340522)**
- Improved support for open ended iRacing tracks.
- Added support for version 5.0 AliveDrive outings.
- Added the ability to change branding from within Toolbox.
  There is now a single installer for the different Toolbox brands.
- Fixed an issue preventing displays from being copied.
- Fixed an issue that allowed erroneous editing of bit-fields when using channel bit-fields on the Bit Indicator display. **(Support Issue(s): 340105)**
- Fixed a crash that could occur when using band pass filters. **(Support Issue(s): 346530)**
- Added automatic generation of circuit maps when loading iRacing outings and the track changes.
- Fixed an issue preventing the map display from updating its title when changing the track map.
- Fixed an issue that could cause Excel Reports to stop running when run against telemetry coming from two sources. **(Support Issue(s): 348910)**
- Improved the feedback provided when workbooks fail to load due to being created in newer versions of Pi Toolbox.
- Fixed an issue that could prevent data from loading in distance mode. **(Support Issue(s): 343623)**
- Added the ability to delete all worksheets apart from the selected worksheet.
- Fixed an issue that could cause channels with filters applied to always be calculated, regardless of being consumed.
- Fixed an issue that could cause applications to hang on shutdown when using Pi Toolbox .NET components. **(Support Issue(s): 345898)**
- Fixed a crash that could occur when clicking on X/Y or Power Spectral Density charts.
- Fixed a crash that could occur when opening stacked outings into a task configured to arrange outings via Global Time. **(Support Issue(s): 342660)**
- Fixed a crash that could occur when attempting to open workbooks created in newer versions of Pi Toolbox.
- Corrected the inconsistent spelling of “Licence” in the installer text.

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- Fixed an issue that could cause math channels to ignore source channel discontinuities. **(Support Issue(s): 341120)**
- Improved the performance of real-time data when using the ifExist function in math equations. **(Support Issue(s): 341772)**
- Fixed a hang that could occur when using the Metric Overview Report. **(Support Issue(s): 340214)**
- Fixed an issue that caused error messages in the installer to be truncated.
- Fixed a memory leak that could occur when using auto update. **(Support Issue(s): 176512)**
- Updated the metric displays to use the theme font.
- Fixed various layout issues present in the metric displays.
- Fixed an issue preventing the pop-up alarms time information from being visible unless using the dark theme.
- Fixed a crash that could occur when closing workbooks.
- Restricted the maximum width used to display metric names on metric displays. **(Support Issue(s): 331344)**
- Fixed a crash that could occur when using pop-up alarms.
- Fixed a crash that could occur when using X/Y charts with real-time data.
- Improved performance when processing real-time data. **(Support Issue(s): 335101, Part of 327109)**
- Fixed a crash that could occur when bringing up the map properties dialog.
- Fixed an issue that could cause the units drop down list to be cut off when displaying metric properties. **(Support Issue(s): Part of 333751)**
- Fixed an issue causing some selection and property explorers to use an inconsistent layout. **(Support Issue(s): Part of 333751)**
- Fixed a hang when launch conditions fail for a silent installation.
- Fixed an issue where the previous install directory was not detected correctly.
- Fixed an issue causing some selection explorers to lose selection when right clicking.
- Fixed an issue preventing some selection explorers from applying filters when shown.
- Added support for displaying values as hexadecimal or binary on the Channel display.
- Fixed an issue preventing some property explorer scroll bars from using the configured theme.
- Fixed a crash that could occur when adding Metric Export Status displays to upgraded workbooks. **(Support Issue(s): 333474, 333601)**
- Added clarification to the Metric Generation dialog that the properties configured there are only the initial defaults, and that subsequent edits must be made via the channel/metric property explorers. **(Support Issue(s): Part of 331343, Part of 326613)**
- Fixed an issue causing channel metrics to revert to using SI units. **(Support Issue(s): Part of 326613, Part of 331343)**
- Fixed an issue causing the region selection dialog to clip the region names.
- Fixed a crash that could occur when removing a real-time outing. **(Support Issue(s): Part of 327162)**
- Fixed several issues resulting in incorrect statistics values when holes were present in the data. **(Support Issue(s): Part of 321840)**
- Fixed a crash that could occur when deleting multiple PDR outings from the same task. **(Support Issue(s): 327828)**
- Fixed an issue when drawing tabs that could lead to further drawing issues elsewhere.
- Fixed memory leaks that occured when using tabs.
- Fixed an issue causing the Aerial Map display to use incorrect colors for its title bar. **(Support Issue(s): 318515)**
- Fixed an issue preventing missing Excel spreadsheets from being created when running Excel Reports.
- Fixed issues resulting in incorrect metric values when holes are present in the data. **(Support Issue(s): Part of 321840)**
- Fixed an issue causing workbooks to be erroneously marked as dirty when changing to worksheeets containing metric displays.
- Added support for displaying raw time values to the Time of Day display.
- Fixed an issue where the Dash display would not show additional lights on initial load. **(Support Issue(s): 314956)**
- Fixed an issue preventing “Map Position D” from marking the first sample of each lap as discontinuous when using a custom “Lap Distance” channel. **(Support Issue(s): Part of 327109, 335101, 258862)**
- Fixed an issue preventing single data points from being displayed when using the line drawing style on the Time/Distance Chart and Real-time Chart Recorder displays.
- Fixed an issue causing the Metric Overview Chart to locally pause real-time data when bringing up the context menu with the mouse.
- Fixed a crash that could occur in the Metric Overview Chart after toggling between tiled and overlaid axis modes.
- Fixed a crash that could occur in the XY Chart when updating the cursor position. **(Support Issue(s): 308372)**
- Fixed an issue that could cause values to be missing from Excel reports. **(Support Issue(s): 317127, 311140)**
- Fixed an issue that could cause video seeking to fail when adding new outings.
- Fixed several issues with seeking between clips on the media display when multiple clips were present.
- Fixed an issue preventing the add media dialog from displaying video previews. **(Support Issue(s): 298794)**
- Fixed a crash that could occur when loading metrics that were saved with incorrect units. **(Support Issue(s): 319160)**
- Fixed a crash loading workbooks containing a Metric Overview Chart when the sort order for outings did not match the order the outings were added to the task. **(Support Issue(s): 319102)**
- Fixed an issue preventing frame stepping from working with added media. **(Support Issue(s): 305590)**
- Fixed synchronisation issues when toggling between time and distance modes on the Media display.

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- Fixed an issue that could prevent video from being shown on the Media display.
- Fixed a crash that could occur when loading outings with Metric Overview Charts present. **(Support Issue(s): Part of 311110)**
- Fixed an issue where Media displays would not correctly update when changing whether to maintain aspect ratio.
- Fixed an issue that resulted in no data being shown when refreshing AliveDrive outings using F5.
- Fixed a crash that could occur when loading a workbook containing an Aerial Map for the first time after starting the computer. **(Support Issue(s): Part of 272555, 262402, 227387, Part of 314929)**
- Fixed an issue that could cause incorrect colors to be used when using the system color scheme.
- Fixed an issue causing outing properties to be slow to load, or to fail to load, on the Add Outing dialog. **(Support Issue(s): 276421, 291026, Part of 310644)**
- Fixed various memory leaks.
- Fixed an issue that prevented the latest outing from being selected when using the button on the outing browse dialog. **(Support Issue(s): Part of 310644)**
- Fixed an issue that could prevent math data from calculating for the first and last outing time regions of a stacked outing. **(Support Issue(s): Part of 310644)**
- Fixed an issue where adding metrics for user type channels often resulted in saved workbooks that would cause a crash when loaded. **(Support Issue(s): Part of 308220)**
- Fixed a crash creating user type metrics with corrupt units. **(Support Issue(s): Part of 308220)**
- Fixed a crash when deleting a task containing an outing connected to a Metric Overview Chart.
- Fixed an issue that prevented slow lap filtering being applied to outings that were added after the workbook had been opened.
- Fixed an issue in the Metric Overview Chart that prevented slow laps from being correctly filtered.
- Fixed an issue that could cause advanced math generated events not to produce events when exporting.
- Fixed an issue that could cause auto-update outings to stop updating channel data.
- Fixed a crash that could occur when using auto-update. **(Support Issue(s): 308199, 296081)**
- Fixed an issue causing the title bar for the Metric Overview Chart to ignore the configured display colors.
- Fixed an issue that could cause Excel reports to fail to produce data. **(Support Issue(s): 288407, 300237)**
- Fixed an issue that could cause math channels to fail to produce values for single sample channels.
- Fixed an issue preventing wildcard filtering from working correctly. **(Support Issue(s): 304898)**
- Fixed an issue preventing math channels from producing value if only consuming channels that don't exist via the ifExist function. **(Support Issue(s): Part of 314929, 300961)**
- Fixed a hang that could occur when using the Ctrl+Shift+* wildcard to filter the drop down channel list in the math equation editor.
- Fixed an issue causing fixed rate math channels to fail to produce values when running at different rates to their inputs. **(Support Issue(s): Part of 300599)**
- Fixed an issue preventing the Metric Overview Report from displaying all current data when turning off local pause.
- Fixed an issue causing statistics values to differ between different display types. **(Support Issue(s): 301786)**
- Fixed an issue in the Metric Overview Chart that caused a crash when scrolling with the mouse wheel while no laps were present.
- Fixed an issue in the Metric Overview Chart that caused a lap number of -1 to be incorrectly displayed.
- Added support to the Metric Overview Chart to allow metric re-ordering via the "[" and "]" keys.
- Added support to the Metric Overview Chart to allow navigating to the first lap via the "Home" key, and the last lap via the "End" key. **(Support Issue(s): Part of 295000)**
- Fixed an issue causing holes in data for fixed rate math channels. **(Support Issue(s): Part of 300599)**
- Fixed an issue preventing the Add New Media Wizard from recognizing some valid video file types. **(Support Issue(s): 298219)**
- Updated the Metric Overview Chart so that the "Show Out of Range Data" filtering option is now disabled by default.
- Fixed a crash that could occur when opening the Pop-Up Alarms Editor. **(Support Issue(s): 292074)**
- Fixed a crash that could occur when attempting to offset video.
- Fixed an issue in the Metric Overview Chart that prevented the cursor values from updating when moving the cursor via the keyboard shortcuts.
- Updated the Metric Overview Chart to allow the Delete key to be used to remove the currently selected metric from the display. **(Support Issue(s): Part of 295000)**
- Fixed an issue that could prevent math channels from providing values for stacked outings.
- Fixed a crash that could occur when stacking outings with metric export definitions present.
- Fixed an issue in the Metric Overview Chart that caused the cursor values to be set to "No Value" when switching between worksheets.
- Fixed an issue in the Metric Overview Chart that caused the Y-axes in tile mode to be misaligned while scrolling.
- Fixed an issue preventing math channels from calculating where the input data had holes, leading to Excel reports getting stuck part way through exporting data. **(Support Issue(s): 295006)**
- Fixed an issue where the properties grid disappeared when collapsing the Appearance and Data nodes in the Properties

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List for the Metric Displays.
- Fixed an issue that could cause video to stutter on loading, then subsequently refuse to play.
- Fixed an issue where changing global metric properties would sometimes fail to update values on the metric overview chart.
- Fixed an issue in the Metric Overview Chart that could cause the start and end ticks on the Y-axis to disappear.
- Fixed an issue in the Metric Overview Chart that caused the Y-axes to be misaligned in tiled mode.
- Fixed an issue in the Metric Overview Chart that could cause multiple horizontal grid lines to be displayed in tiled mode.
- Fixed an issue in the Metric Overview Chart that prevented the cross hairs from being displayed when the first data point was situated on the chart origin.
- Fixed an issue in the Metric Overview Chart that prevented the cursor values from updating when the chart was in point/bar mode and was connected to a real-time outing.
- Fixed an issue in the Metric Overview Chart that prevented the scroll bar position from updating when navigating with the cursor keys.
- Fixed an issue in the Metric Overview Chart that caused part of the cursor line to remain visible even when the selected lap had scrolled out of view.
- Fixed an issue in the Metric Overview Chart that caused the cursor to disappear when clicking slightly left of the metric chart line. **(Support Issue(s): 294998)**
- Fixed an issue that prevented the address bar on the Web Browser display from changing colour when the cursor was hovering over it.
- Fixed an issue in the Metric Overview Chart that prevented cursor navigation when valid range filtering was enabled.
- Fixed an issue in the Metric Overview Chart that caused bars to be rendered on top of each other when the lap numbers from multiple outings overlapped.
- Fixed an issue in the Metric Overview Chart that caused Toolbox to crash when the last metric was removed from the chart while in bar mode.
- Fixed various performance issues whilst scrolling in the Metric Overview Chart.
- Fixed an issue in the Metric Overview Chart that caused Toolbox to crash when it contained a metric that had its decimal places property set to zero.
- Fixed an issue where changing values in Display Metric Properties had no effect after reverting them.
- Fixed an issue with the Web Browser display where the site caption was shown in the address bar and not the web address.
- Fixed an issue in the Metric Overview Chart that caused data points in point mode when tiled to be rendered outside of their y axis boundary.

Pi Data Access:

- Fixed an issue that prevented channel bit-field names from being displayed for older outing files. **(Support Issue(s): 306912)**
- Fixed an issue causing constants to become corrupt when received via real-time. **(Support Issue(s): 349892)**
- Fixed an issue causing legacy multicast real-time data to be trimmed incorrectly when using cache file size limiting.
- Changed the real-time data cache size limit to only be applied to channel data, and no longer include setup and display information.
- Fixed an issue that could prevent lap markers from appearing in real-time data when using a legacy multicast connection.
- Fixed an issue preventing double-precision floating point channels from being scaled.
- Fixed and issue where real-time connections could end up connecting to themselves.
- Fixed a crash that could occur when creating a new Pi Dataset file.
- Fixed a crash that could occur when receiving real-time data. **(Support Issue(s): 340903, 340798)**
- 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 an issue where real-time data could not be obtained through the RT Reader API. **(Support Issue(s): 336630)**
- Fixed an issue that could cause deadlock in a telemetry server if the configured real-time port is already in use.
- Fixed a crash that could occur when receiving real-time data.
- 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 acos and asin math operators to return NaN when supplied with values < -1.
- Fixed a crash that could occur when removing a real-time outing. **(Support Issue(s): Part of 327162)**
- Fixed an issue preventing single sample blocks from being treated as continuous.
- Fixed an issue that could cause problems with backfilled real-time data.
- Fixed an issue with unit conversion parameters being incorrect at the 16th and 17th decimal places. **(Support Issue(s): 327961)**
- 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 data to be erroneously marked as continuous.

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- Fixed various issues when loading real-time data following lap markers. **(Support Issue(s): 139695, 261921)**
- Fixed an issue that could cause telemetry clients to disconnect, resulting in holes in the data.
- Fixed an issue preventing media channels from being added to older .pds files.
- Fixed an issue that could cause real-time outings to drop data if time goes backwards. **(Support Issue(s): 261907)**
- Fixed an issue causing telemetry data to be combined incorrectly when receiving data from multiple radios.
- Fixed an issue that could cause crashes when using poly([x], 0, 1) in math equations.
- Fixed an issue causing inserted lap markers, and updated lap marker distances to be lost when changing the first lap number. **(Support Issue(s): 294080)**

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COMPATIBILITY

The following operating systems are supported:

- Microsoft Windows 11 (64-bit)

Data Access compatibility:

- This version of Toolbox includes Data Access 10.4, and any other installed Cosworth software will use the same version.

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COSWORTH

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/

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