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CANtrace 4.1

With this release, CANtrace has improved the built-in scripting, by including many common Python modules in the installer. This allows making more advanced scripts, by using existing file handling, calculation, and data manipulation functions provided by modules.

There's now full support for multiplexed signals in databases. Multiplexed signals allows decoding complex CAN protocols and there's now support added to the trace, data and graph tabs to display signals from multiplexed CAN messages. Also the send tab now allows you to easily edit and send messages that contain multiplexed signals.

We have also added time synchronization of the CAN channels, when going on-bus. This means that in multi-channel setups you will be able to compare timestamps between channels as they have the same time base.

In addition there's a number of other improvements, like better handling of corrupt log files and invalid J1939 DTCs, more modern graphics for the splash screen and installer, better display of hexadecimal numbers, improved help file and a guide on how to use the Kvaser Memorator with CANtrace.

There has also been a lot of effort put into fixing user interface issues in the trace and send tabs, improve the project management, and fix issues in the logging configuration.

New and Changed Functionality

- #2665 – Now synchronizes the time between CAN channels when going on bus
- #2537 – Many Python modules now included in CANtrace
- #2672 – Improved detection of corrupt files in log playback
- #2351 – Now prevents unassigned channel from being selected for log playback
- #2637 – J1939 DTC decoding has improved display of invalid DTCs
- #2508 – Instructions on how to log with Kvaser Memorators added to the help file
- #2734 – The Help file Send Tab section has been improved
- #2432, #2662 – Updated graphics in the splash screen and in the installer
- #2033 – Databases with multiplexed signals are now supported
- #1009 – Hexadecimal values are now printed with capital letters

Bugfixes

- #2650 – Now prevents error frames and CAN ID zero from overwriting each other in the fixed trace
- #2615 – Expand / Collapse signals now works correctly when the same CAN message has both a TX and RX entry.
- #2668 – Log settings dialogue is now reset correctly when doing New Project
- #2670 – TXT files are now visible in the file selector of the log settings dialogue

- #2671 – Cancel button in the log settings dialogue now resets all values
- #2734, #2263 – Fixed duplicate values and errors in the send tab DLC list box
- #2310 – New preserves data bytes correctly when changing the DLC in send tab
- #2706 – Fixed spurious exceptions when going off bus at the end of log playback
- #2728 – Fixed problems when adding a database message to the send tab
- #2353 – Removed inconsistencies in Log playback error messages
- #2709 – Fixed a problem slowing down CANtrace when debugging
- #2643 – The integration test has been updated to fix various issues
- #2641 – The CANopen node scanner is now cleared when doing New Project
- #2152 – Removes exceptions caused by missing CAN driver
- #2080 – Configuration of hidden tabs now saved to project file with the other tabs
- #1992 – Now prevents logging to the same file used for playback
- #1008 – Trace tab settings now set to default when selecting File->New Project