

## catoolRT 19.9 Release Notes

Changes since 19.6:

- Fix issue where analogue crank position sensor latch high and low values could not be modified
- Prevent engine stop being detected when toothed wheel has a large missing tooth gap (Honda NC700 16-3 for example)
- Show number of engine stop events in status bar during DAQ
- Add number of engine stop events as parameter "STOPCOUNT"
- Pause XCP when configuring DAQ to prevent crashes
- Reduce restrictions on number of time based cycles to stop acquisition – allows continuous time base measurement of data
- Add 16PPR option to encoder resolutions
- Fix crash when a cyclic channel was added to a crank angle based group for statistical calculations.
- Fix a memory leak in the channel filtering code that could cause PC to run out of memory when online for a long time
- Fix an issue using multiple CDAQ acquisition modules
- Enable camshaft synchronisation with a single edge in first or second engine revolution
- Fix an issue where trigger device and channel could not be selected
- Allow clock resolution down to 1 pulse per rev
- Fix bug preventing channel offset working on non-pressure channels
- Fix bug preventing filtering loaded data during "Rerun Analysis"
- Preliminary support for CAN HD interfaces. Contact [support@xarin.com](mailto:support@xarin.com) if you wish to use.
- Only show "Polytropic" offset type with pressure channels
- Show correct units when configuring fixed and mean offset types
- XCP time correction is now in units of integer microseconds
- Fixes to batch processing
- CPU usage improvements when logging CAN data via Kvaser and PEAK interfaces
- Improvements to XCP over CAN
- Make calculation of cycle speed for each channel optional
- Enable 3-pt median filter for all channel types
- Create config directory if required. This ensures licence can be downloaded on non-Administrator accounts
- Don't wait for XCP to finish when exiting application to prevent hangs
- "Export DAQ Debug Log" renamed as "Export Hardware Log"
- Added "Upload DAQ Debug..." to upload DAQ debugging
- Added exporting of DAQ results in "Import & Export"
- Improvements to configuring CANbus channels
- Remove unused options from "Configure File" dialogue
- XCP support "CrankAngle" rate