



# MBScope Mainline Change Log

## v4.7.0 December 18, 2018

[All]

- Bug 3327 and 3329: Uninstaller does not fully remove Program Files.

[MBG5PC]

- Feature 1785, 1786 and 1788: Parameter Loader and Licensing – Added new licensing option for encryption/decryption handling of PVF files with the Parameter Loader
- Feature 1892: Control Panel – Added new controls to motor configuration tab
- Feature 3649: Control Panel – Added a new tab for setting the motor speed LUT table
- Bug 3403: Trending – v4.2 files not compatible with tree view
- Bug 3404: Trending – v4.2 files do not auto-scale properly
- Bug 3405: Trending – Exception when trying to scroll to 0 in low speed preview while running
- Bug 3439: Trending – Live low speed trending auto-scaling conflicts with manual scale
- Bug 3694 and 3694: Trending tool frozen when displaying big low speed trending files
- Bug 3580 and 3695: Trending tool crashes when trigger on an alarm
- Bug 2541: Trending – Save notes button should be grayed out when changes are detected
- Bug 3772: Trending – Saving notes crashes data collection viewer
- Bug 3693: Analyzer: Remove tool from MBG5PC architecture

## v4.6.0 September 14, 2018

[MBG5PC]

- Feature 1343: Trending – Changed cursor for Navigation Window when mouse hovering over edges (horizontal arrow) and region (cross arrow)
- Feature 1344: Trending – Added a dot to the cursor. On the data where the cursor line intersects
- Feature 1346: Trending – Updated the data viewer manual axis scale to include an x/horizontal scaling (as before) that adjusts the navigation window
- Feature 1761: Trending Viewer – Added the ability to view more than 2 types of data
- Feature 1767: Trending Viewers – Changed channels list to a channels grouped tree list for the Trending Viewer.
- Feature 1763: Trending – Capture and display of event logs in trending file
- Feature 1781: Trending – Changed channel list to a channel grouped tree list for the Slow Speed Trending Viewer
- Feature 1863: Signal Generator – Added support for the rotation simulation new controller feature
- Bug 2618: Trending – Cursor Channel Selection requires the user to move the cursor before the change takes effect
- Bug 2740: Trending – High Speed long-term trend shows unhandled exception
- Bug 2747: Trending – Double clicking a trend template file does not work correctly.
- Bug 3333: Trending – Notes box in sampling form does not scale when resizing window
- Bug 3335: Trending – Template does not include data folder
- Bug 3336: Trending – Show preview defaulted to checked (Shall be unchecked)
- Bug 3338: Trending Viewer – X axis does not match what is selected in the navigation plotter
- Bug 3339: Trending Viewer – Difficulty to select lines. When user clicks selection shall select closest line
- Bug 3340: Trending Viewer – Right click of white grid lines brings up scale window

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- Bug 3341: Trending Viewer – Speed should always be a default selection when opening a trending file, then it shall go by list starting with position
- Bug 3363: Trending – Trend Info “decel current” populated by “accel current”
- Bug 3366: Trending Viewer – When notes section is included before data points in Low Speed File. All the data points will be displayed as comments
- Bug 3369 and 3370: Trending – Duration settings are not available when pre and post triggering options are selected
- Bug 3378: Trending – Hide Secondary TDC marks. Not used

#### **v4.5.1            March 2, 2018**

[G4]

- Feature 1750: Calibration Panel – Improved Axial Planar Calibration:
  - Added calibration plots for all axial channels.
  - Improved axial planar calibration algorithm to stop on detection of first inflection point detected.
  - Added send of offsets for all axial axes at the same time.
- Feature 1753: Calibration Panel – Added voltage position information for detected Minimum and Maximum inflection points.
- Bug 3313: Calibration Panel – Offsets not computed sometimes.
- Bug 3319: Calibration Panel – Not robust detecting inflection points. This version improved robustness of the inflection points detection algorithm.

#### **v4.5.0            February 22, 2018**

[All]

- Feature 1755: Updated Launcher error message when a license is not loaded and a tool is not available

[MBG5PC]

- Feature 1740:
  - Updated licensing restrictions for Basic, Advanced and Certified User licenses for MBG5PC architecture
  - Added licensing restrictions warning label whenever a license restriction is in place in the active tool
  - Added “Clear Coast Alarms” button in the “Rotation Lockout Alarms” panel from the “Alarm Setup” tab
- Bug 3298: Signal generator does not start with latest firmware because it fails to check new firmware versioning style

#### **v4.4.3            November 3, 2017**

[All]

- Bug 3187: Unable to connect after installing Windows update KB4041681

[G4]

- Bug 3165: Event Viewer – Alarm bitfield does not match the controller
- Bug 3188: Orbits – Channels other than Position XY should be removed
- Bug 3004: Orbits – X & Y axis nomenclature should be shown instead of V & W
- Bug 3166: Snapshot & Trending – Channel names are incorrect for currents and home sensor

[MBDrive]

- Feature 1554: Control Panel – Update to use the Signed Peak Positions
- Bug 3148: Firmware Loader – Failing to completely load IMGz file

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## v4.4.2 June 19, 2017

### [MBDrive]

- Parameter Loader - "Receive from Controller" button will create an empty 0 byte file with the name, possibly overwriting existing PVFs

### [MBG4]

- Bug 2974: Calibration Panel - View shows the old axis values.
- Bug 2998: Added support for CKC in the Snapshots, Orbits, Trending, and Event Viewer tools
- Bug 3000: Event Viewer - Fixed the never-ending unhandled exception when not connected

### [MBG5PC]

- Feature 1551: Calibration Panel - Change "Centering Calibration" tab name to "Injection Calibration"
- Bug 2958: Control Panel - StF fails when levitated and doesn't indicate this to the user

## v4.4.1 June 2, 2017

### [All]

- Feature 1544: Add support for new controller types, including Calibration Panel support for the CKC machine.
- Bug 2450: Firmware Loader - Creates temporary files on local drive, but doesn't delete them
- Bug 2787: Specify Default Connection Settings to allow tools to open the first time MBScope is used
- Bug 2819: MBScope Settings - The log level configuration did not work
- Bug 2910: Error Diagnostic Report doesn't include the INI file
- Bug 2916: Connection Settings - Cannot switch between Architectures

### [MBG5PC]

- Feature 1338: Support for Windows 100%/125%/150% Scaling
- Feature 1540: Calibration Panel - Inflection point view needs to show the raw positions
- Feature 1541: Calibration Panel - Show the system tab first, and don't ask for test mode
- Bug 2954: Calibration Panel - Disable the triangle method tab for non-factory users
- Bug 2955: Calibration Panel - Data from one axis is getting migrated to the other axis
- Bug 2925: Firmware Loader - Detecting multiple card connections to the same network is not working
- Bug 2765: Control Panel - Saving to permanent memory generates a user error (Communication Loss to SPV)
- Bug 2950: MBDataEngine - Not checking MBC responses correctly
- Bug 2953: Control Panel - Too big for 1366x768 screens
- Bug 2956: Service Panel - Transfer functions are re-scaling after every measurement (disable the auto-scale)

### [MBC150416]

- Feature 1419: [EV06] Control Panel - Display the ON/OFF status of the sync filters
- Feature 1417: [EV11] Control Panel - Do not allow user to permanently have 'Clear Alarms' set
- Feature 1462: [EV02] Service Panel - Allow OEM to reset the hard landing counter
- Feature 1478: Improve the 'Unable to Connect' error message to be more user friendly
- Feature 1482: Firmware Loader - Robustness improvements
- Feature 1516: [EV16] Control Panel - Display the radial harmonic in the Monitoring Panel
- Bug 2918: Amplifier Config Panel - Monitoring Panel crashes with OverflowException if parameters aren't initialized
- Bug 2283: Control Panel - Alarm Panel exception if disconnected
- Bug 2289: Amplifier Configuration - Exception in Basic Tuning
- Bug 2290: Amplifier Configuration - Monitoring panel exception
- Bug 2551: Parameter Loader - "Receive from Controller" button will create an empty 0 byte file with the name, possibly overwriting existing PVFs

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- Bug 2552: Parameter Loader - Receives .pvf files without the .pvf extension which causes confusion when looking for the file
- Bug 2915: Amplifier Configuration Panel - Hangs when trying to close
- Bug 2947: MBDataEngine - Communication errors are masked and not presented to the user

[MBDrive]

- Feature 1479: Parameter Loader - Improve the error message when MBC parameters are not received when an MBC is not connected
- Feature 1480: Connection Settings - Remove the 'Snapshot Port' option as it is not supported
- Bug 2576: Configuration Panel - Double clicking certain parameters will cause an exception

[MBDrive & MBC150416]

- Feature 1481: [EV26] Support for Windows 100%/125%/150% Scaling
- Bug 2914: Parameter Loader - Error receiving parameter strings
- Bug 2948: Parameter Loader - Not saving parameters that are Type != Custom
- Bug 2300: MBDataEngine - Failed parameter queries are not caught which could cause unreported errors
- Bug 2922: Unable to connect to two different architectures at the same time

## **v4.4.0                      January 19, 2017**

[MBG5PC]

- Feature 185: When an unhandled exception happens, provide an option to email SKF the data
- Feature 724: Calibration Panel - Automatically calculate the Raw Pos
- Feature 1370: Control Panel: Versioning improvement
- Feature 1371: Control Panel - Support for new TDC Delay config (requires G5 firmware v1.0.0)
- Feature 1311: Control Panel - Position alarms for each axis (requires G5 firmware v1.0.0)
- Feature 1313: Control Panel - Low and high speed position alarms (requires G5 firmware v1.0.0)
- Feature 1317: Control Panel - Support for the new REF\_DELAY angle/time parameter change (requires G5 firmware v1.0.0)
- Bug 2529: Double clicking a file to open a tool will prevent the tool from connecting
- Bug 2564: Spelling Mistakes
- Bug 2608: Calibration - Make the resolver channel order consistent between tools
- Bug 2620: Calibration - Amplitude stays red after sending (Triangular method)
- Bug 2566: Trending - Template is not saving duration or show preview checkbox
- Bug 2593: Trending - The 'Ref Time' when showing data should change to 'Ref Time (Controller)'
- Bug 2619: Trending - Don't show the FFT button for slow speed trends
- Bug 2586: Trending - Auto Scale does not work correctly with two Y Axis
- Bug 2538: Trending - Saving over "Read Only" Templates gives a generic error where as it should say that the file is read only
- Bug 2649: Analyzer - Older G3 files are not opening properly
- Bug 1160: Snapshots - Large Axis value exception
- Bug 2606: Service Panel - ONO .lib file should not have the files with the # as part of the file name
- Bug 2595: Firmware Loader - Avoid power cycle message when servicing mode is not enabled
- Bug 2527: Firmware loader - Wrongly diagnosed two network adapters on subnet
- Bug 2585: Firmware Loading - Log Spam

## **v4.3.2                      November 14, 2016**

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[MBG5PC]

- Bug 2455 MBDE - Cannot Connect, Spamming Log, OutOfMemoryException
- Bug 1866 Snapshots - Unable to open a saved SSD when not connected to the controller
- Bug 1898 Trending - Low-speed TSDs sometimes show 0 seconds of data
- Bug 2223 Calibration - Corrected full scale value equation
- Bug 2588 Calibration - Injection wasn't getting disabled when closing the tool
- Bug 2272 Firmware Loader - Error message now indicates the true nature of the failure (rather than 'cancelled by user' for all errors)
- Bug 2293 Calibration - Triangular Amplitude/Frequency data boxes change indication doesn't update when sending parameters
- Bug 2321 Event Viewer - Speed display is not working correctly
- Bug 1914 Event Viewer - Alarm snapshot Speed display is incorrect
- Bug 2568 Firmware Loader - Need to give the controller more time to set the action status
- Bug 2531 Firmware Loader - Communication issues are causing firmware download failures
- Bug 2578 Firmware Loader - Doesn't import encrypted PEFs when loading new firmware
- Bug 2579 Parameter Editor - Problem when sending char/string parameters
- Bug 2581 Parameter Loader - Parameter Loader fails to verify string parameters
- Feature 1304 Added an Auto-Connect option
- Feature 1312 Added support for controller Servicing Mode
- Feature 1336 Parameter Loader - Identify the restricted parameters in the verify process
- Feature 1339 Parameter Loader - The 'include restricted' checkbox should be unchecked when the tool is opened by default

### v4.3.1 November 14, 2016

[MBC150416]

- Feature 1261: Implemented license access control
- Bug: 2249: Event Viewer - Unable to open ASD files
- Bug: 2250: Launcher - Parameter Switcher missing from program list

[MBDrive]

- Feature 1261: Implemented license access control
- Feature 1335: Integrated in the Servicing Panel
- Bug 2555: Configuration Panel - fixed an exception when storing to flash
- Bug 2573: Configuration Panel & Firmware Loader - integrated changes that have been under test

### v4.3.0 October 12, 2016

[All Architectures]

- Bug: 2524: Improve the operation when switching between architectures for each tool
- Bug: 2347: Correctly identify the type of file when double clicking, and open the correct tool

[MBG5PC]

- Bug: 2319: Calibration - Store a separate 'step size' for each algorithm
- Bug: 2409: Service Panel - Errors are hidden behind the form & progress dialog
- Bug: 2442: Snapshots - SSD FFT data is saved with terrible resolution
- Bug: 2441: Snapshots - SSD when tool is offline gives exception
- Bug: 2432: Firmware Loader - Fails with unhandled TFTP exception
- Bug: 2440: Firmware Loader - Should give an error when network configuration is duplicated across two devices
- Feature: 1310: Firmware Loader - Support for large TFTP block size to reduce load errors
- Feature: 1295: Firmware Loader - Verification if the controller bootloader is installed
- Feature: 1244: Trending - Addition of system parameters in the TSD
- Feature: 1245: Trending - Addition to save test notes in the TSD
- Feature: 1246: Trending - Support for multiple low speed statistics at the same time
- Feature: 1266: Trending - Support for TSD file formats v4.3

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- Feature: 1270: Trending – Support for TPL file formats v4.0
- Feature: 1297: Trending – Addition of FFT analysis
- Feature: 1288: Control Panel – Addition of TDC and Coast timeout parameters

## **v4.2.2            August 2, 2016**

[All Architectures]

- Feature: 600: Only populate architectures and tools available with the current license
- Feature: 1139: MBScope Settings – Global UTC timestamp configuration
- Bug: 2279: MBDataEngine Configuration – Window should not be resizable
- Feature: 1241: Import PEF to load unencrypted .pefs & .mdls regardless of license level
- Bug: 2350: Exception selecting connection settings if there are no serial ports or parallel ports
- Bug: 2087: Licensing – Multiple license keys cause very slow loading.

[MBG3]

- Bug: 1909: Support encrypted PEFs
- Bug: 2341: Event Viewer – Won't open ASD file automatically if passed as argument

[MBG5PC]

- Bug: 2207: Increased the robustness of the parameter loading
- Feature: 1161: Service Panel – ONO Files should always get created
- Feature: 1162: Service Panel – ONO files should be encrypted
- Bug: 2248: Service Panel – ONO uses DateTime should use InvariantCulture
- Feature: 1163: Service Panel – Provide a notification if not levitated
- Bug: 2158: Orbits – Attempting autoscale with no positions selected will break it
- Bug: 2161: Snapshots – Reenable waterfall plots.
- Bug: 2210: Parameter Loader – Does not accept periods in the filename
- Feature: 1168: Control Panel – Show the currently loaded PVF for non-factory licenses
- Bug: 2224: Control Panel – Monitoring Panel Icon is incorrect
- Feature: 1169: Control Panel – Show the Asset ID
- Feature: 1090: Control Panel – Refresh the PVF name periodically
- Bug: 2211: Calibration – Test Mode would not stay checked
- Bug: 2143: Event Viewer – When opening .asd files from other other type of controllers, an exception occurs.
- Bug: 2324: Event Viewer – Can't open alarm snapshots while disconnected
- Bug: 2340: Event Viewer – Graphics are squished
- Bug: 2346: Event Viewer – Unable to open ASD files when disconnected from controller

## **v4.2.1            June 23, 2016**

[All Architectures]

- Bug 2130: Factory license check sometimes fails
- Bug 2232: Encryption had chance of failing in 1/255 times

[MBG5PC]

- Bug 2213: Calibration – The 'send calculated' is grayed out after clipping
- Bug 2226: Firmware Loader – Fails because timeouts were too short
- Bug 2209: Service Panel – Transfer functions missing tuning version in the file name
- Bug 2205: Service Panel – Sweeps sometimes not starting (force-closing the tool)

## **v4.2.0            June 3, 2016**

[MBG5PC]

- Feature 1124: Service Panel Revamp
- Feature 1078: Calibration Panel – Show the OL Natural Frequency

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- Bug 2013: Event Viewer - Unable to open ASD v2.3
  - Bug 2016: Amplifier Configuration Panel - Remove the erroneous "Temperature Switch Warning"
  - Bug 2019: Parameter Loader - Verify button does not update the progress bar
  - Bug 2046: Parameter Loader - "Send PVF and Store to NVRAM" Right-Click Menu Item Does Not Prompt Confirmation/Do Anything
  - Bug 2020: Trending - Axis re-scale
  - Bug 2042: Trending - Low Speed Trending Bugs (preview window)
  - Bug 2047: Trending - Performance issues when starting trend
  - Bug 2048: Analyzer - Save As will crash application when there is no data
  - Bug 2076: Analyzer: Timestamp of trending saved files not correct
  - Bug 2157: Control Panel - When first opening Control Panel, garbage values are appear in fields.
- [MBDrive]
- Bug 2170: [S2M] MBDrive - LCFILTER (and also for ISREF\_RAMPUP) some parameters and processed parameters are not show in the box

## v4.1.2 May 9, 2016

[All Architectures]

- Feature 1033: .NET upgrade to v4.5.2

[MBG5PC]

- Feature 1049: Calibration Panel - Triangular Calibration Implementation
- Feature 1031: Analyzer / Service Panel - Extend signal generator resolution & improved chirp generation
- Bug 1984: Analyzer / Signal Generator - Amplitude and offset units were incorrect
- Bug 1920: Analyzer / Service Panel - Allow non-power of 2 FFTs
- Bug 1929: Service Panel - Transfer functions following first transfer functions are not valid
- Bug 1930: Analyzer / Service Panel - Number of chirps processed not correct when finishing process
- Bug 1932: Analyzer / Service Panel - ONO exporting the wrong speed value
- Bug 1951: Analyzer / Service Panel - Manual scaling of right axis does not work
- Bug 1989: Analyzer / Service Panel - Display frequencies that are not computed yet
- Bug 1995: Analyzer / Service Panel - INI file not loading correctly
- Bug 1997: Analyzer - Live axis not being displayed
- Bug 1999: Analyzer - Not opening previous ANL files
- Bug 1952: Service Panel - Status begins with "Transfer functions completed" when multiple tabs are available in template file
- Bug 1643: Service Panel - Time estimate was incorrect
- Bug 1945: Service Panel - Not going through all the axis
- Bug 1978: Service Panel - Implement option to not display cross transfer functions
- Bug 1979: Service Panel - Display of data does not agree with current sweep frequency
- Bug 1980: Service Panel - Crashes while sweeping second axis
- Bug 1988: Service Panel - Getting stuck while sweeping in one axis

## v4.1.1 May 6, 2016

[G4]

- Feature 1113: Support for Enhanced Serial RTP Controller Type
- Bug 1966: [Firmware Loader] Unable to code load G4 systems

[MBC150416]

- Feature 1015: [Event Viewer / Control Panel] Improvements
- Bug 1603: [Firmware Loader] Inconsistent ability to firmware load
- Bug 1879: [Firmware Loader] Fails when loading firmware
- Bug 1921: [Firmware Loader] Fails for some network interfaces

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- Bug 1933: [Firmware Loader] Crashing when pressing the cancel button
- Feature 1054: [Firmware Loader] Add timeout to TFTP process when transmission is interrupted or not started
- Bug 1802/1878: [Launcher] Parameter Switcher is not appearing in the list
- Bug 1880: [Configuration Panel] Radial sub block is not working
- Bug 2041: [Configuration / Service Panel] - Allow Store to Flash closing after error [MBDrive]
- Bug 1926: [Control Panel] Unable to open other panels when this panel is open

## **v4.1.0            March 4, 2016**

[G5PC]

- Feature 821: Updated Licensing (including PC lock licenses)
- Feature 987: [Event Viewer] Added the ability to download alarm snapshots
- Feature 973: [DataEngine] Added the ability to connect to multiple controllers
- Feature 980: [DataEngine] Added support for SSV2 from the controller
- Bug 1775: [DataEngine] Improved the detection for missing TDC bits
- Bug 1778: [DataEngine] Invalid snapshot data from the controller causes a crash
- Bug 1813: [DataEngine] Memory leak during connection process
- Bug 1869: [DataEngine] MBServer TCP connections are excessively slow
- Bug 1897: [DataEngine] Snapshot frame errors should not be happening
- Bug 1468: [Firmware Loader] Support for 64-bit
- Bug 1874: [Firmware Loader] Remote TCP connections should not be supported
- Bug 1538: [Trending] ISO limits causes a crash when non-position channel is selected
- Bug 1779: [Trending] Slow speed trends have corrupt data
- Bug 1807: [Trending] Slow speed trend is crashing
- Bug 1732: [Parameter Loader] Context menu actions do not have a confirmation
- Bug 1760: [Service Panel] Cancelling a sweep doesn't stop the sweep in the controller
- Bug 1875: [Analyzer] Transfer functions restarting automatically
- Bug 1761: Settings are not getting saved when closing a panel
- Bug 1773: Analog TDC and Resolver scaling is incorrect (affects all snapshot data)

## **v4.0.1            December 17, 2015**

[G5PC]

- Feature 822: Added support for encryption
- Feature 903: [Analyzer & Service Panel] Provide ONO files in the output file (factory users only)
- Feature 916: [Analyzer & Service Panel] Improved selection browsing for a folder to save files
- Feature 917: [Analyzer & Service Panel] Automatic ISO view setup when enabled
- Feature 961: [Service Panel] Allow access to the template editor (factory users only)
- Feature 963: [Service Panel] Append date and time to filename to avoid overwrite
- Bug 1547: [Analyzer] Possible crash on startup if firmware version cannot be read from controller
- Bug 1554: [Analyzer & Service Panel] Consistent naming convention between panels
- Bug 1556: [Analyzer] Template Editor - Parameter entry errors
- Bug 1559: [Analyzer] Template Editor - Unable to save/copy a template
- Bug 1560: [Analyzer] Tool stopping when injection data was unavailable for processing
- Bug 1562: [Analyzer & Service Panel] PVF capture occasionally fails
- Bug 1616: [Analyzer] Causes the snapshot window to stop updating when analyzer launched
- Bug 1677: [Analyzer] Transfer function was shown with invalid frequency data
- Bug 1687: [Service Panel] Missing from the Launcher
- Bug 1698: [Analyzer] ISO limits are the wrong scale
- Bug 1699: [Service Panel] Exception when uploading template file
- Bug 1702: [Service Panel] [Analyzer] Template Editor - Error when 'cancel' is clicked

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- Bug 1703: [Service Panel] [Analyzer] Template Editor – Changes lost when 'cancel' is
- Bug 1718: [Analyzer] Connection was mandatory to open the tool

## **v4.0.0            October 30, 2015**

[All Architectures]

- Feature 819: Updated Branding
- Feature 820: Updated to new Licensing Key Scheme (v5)
- Feature 890: Added plugin support for MBG5

[G5PC]

- Feature 818: Added ISO display
- Bug 1477: Removed 'Quick Help' from all tools
- Bug 980: [Snapshots] Fixed the start/stop button text
- Bug 1014: [Event Viewer] Exception while reading the event log when not connected
- Bug 1484: [Event Viewer] Controls were extending beyond the application window, hiding the status bar with the connection information
- Bug 1157: [Trending] Data Collection Template didn't store the max file size
- Bug 1207: [Trending] Removed the TDC bit from low speed trending
- Bug 1169: [Calibration] Run Menu items didn't work
- Bug 1199: [Configuration Panel] Application icons were incorrect
- Bug 1496: [Launcher] Amplifier Configuration tool was missing

## **v3.2.8            June 18, 2015**

[G5PC]

- Bug 500: Updated GCI which fixed an out of memory exception
- Bug 909: Code Cleanup of parameter loader code
- Bug 936: Parameter loader paths handle illegal characters properly
- Bug 975: TDC Bit allowed to be obtained by trending tool
- Bug 1013: Fixed the progress bar going over the max allowable value in Parameter Verify code
- Bug 1107: Updated GCI to fix memory leaks
- Bug 1122: Advanced settings panel will now properly restart the data engine
- Bug 1131: Imported communication bugs from E300V2 MBScope
  - Added Lock conditions to prevent simultaneous access to code
  - Null Reference when closing communications was fixed
  - Only start a new MBDataEngine service if the other had closed completely
- Bug 1159: A failure while reading the INI in the trending tool will not abort the reading operation
- Feature 168: Allowed changing of front panel parameters (eg. alarm limits) from the control panel
- Feature 521: Changed Launcher to read "Launch Tool" instead of "Launch Application"
- Feature 561: Firmware loader does not require admin privileges (apart from when using the G3 parallel port connection)

[G4]

- Bug 966: Analyzer injections are disabled before exiting the form

## **v3.2.7            March 18, 2015**

[G5PC]

- Bug: Fixed parameter fields not being verified correctly due to a missing delimiter in the code.

## **v3.2.6            March 13, 2015**

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[G5PC]

- Bug 412: Moved test mode checkbox to control panel main page
- Bug 733: Changed display of volatile parameter dialog to be more clear
- Bug 848: Motor inhibit status is displayed along with motor status
- Bug 664: Added hardware centering values on G5 panel
- Bug 739: Scale with start at default range when changing snapshot channels
- Bug 740: Drive Resolver and Analog TDC channels scaled to a 12 bit instead of 16 bit number
- Bug 854: Fixed event storage during trend
- Bug 853: Orbits faulting due to exception – divide by zero exception fixed
- Feature 59: Display last loaded PVF on control panel and parameter loader
- Feature 184: Access to front panel alarm parameters from control panel
- Feature 377: Parameters stored in human readable format in the PVF – version 3.0

[G4]

- Bug 739: Scale with start at default range when changing snapshot channels

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