



# MBScope Mainline Change Log

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

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## **v4.3.2      November 14, 2016**

[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

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[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
- 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

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- 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
- 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

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## **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
- 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

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- 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

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- 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
- 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

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- 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**

[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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