



MX100 Firmware/Software Updates

Software version 4.1.18-13, June 20, 2011

1. Fixed ARP and ARP Gateway bug in BERT, RFC2544, and Throughput, reported in version 4.1.18-12.

Software version 4.1.18-12, April 28, 2011

1. Added Dual VLAN detection in the VLAN Scan function.

Know Issues: ARP and ARP Gateway in BERT, RFC2544, and Troughput is not working.

Software version 4.1.18-11, November 20, 2010

1. Fixed a uniform frame size distribution bug: when uniform was configured the TX will not transmit at the rate specified. Fixed.
2. Improved the stability of the RFC2544 asymmetric test
3. Fixed a UI crash when the user would change to a different language.

Software version 4.1.18-5, September 17, 2010

1. Added a a round trip delay enable/disable option to the Throughput application.
2. Added RFC2544 Asymmetric test compatibility with the MX/TX300
3. Set the default Ethernet Type value to 0x0700 in Layer 2.
4. Added user-dfined Ether Type values in Layer 2.
5. Fixed a round trip delay bug where the value kept on increasing over time

Software version 4.1.18-3, May 7, 2010

1. Added Asymmetric test compatibility with the MX100+ (version 5.0.29) and MX120+ (version 5.0.29). NOTE: The asymmetric test is not compatible with the MX100 version 4.1.18 pr older.
2. Fixed a OAM loopback control bug where the unit will rebbot after closing the message that appears indicating that the loopback is in place.
3. Modifies the minimum frame size limits to be consistent with the MX100+/120+: Minimum frame size at Layer 2 uis 64 bytes without VLAN. Minimum frame size for Layer 3 is 68 bytes without VLAN.
4. Fixed a BW% setting bug in multiple streams where the total BW% was greater than 100%.
5. Fixed a H.323 VoIP bug where the login settings were not applied properly to the H.323 packets.



Software version 4.1.16, September 8, 2009

1. Fixed the bug where the fiber port was not linking up.
2. Fixed the bug of RX(%) of RFC2544 throughput test with flow control ON.

Software version 4.1.13, August 13, 2009

1. Modified the UI of Peer to Peer test in Throughput mode; Similar to RFC2544.
2. Fixed the UI bug of traffic mix of layer 4 UDP and TCP in multiple streams test.

Software version 4.1.9, August 6, 2009

1. Modified the UI of RFC2544 throughput result; added RX counter column to summary/log
2. Added the traffic mix of layer 4 UDP and TCP in multiple streams test.

Software version 4.1.6, March 11, 2009

1. Fixed IP Tools bug where the IP/Gateway stay in progress during a Static IP connection.
2. Added Bit+CRC error injection.
3. Known Issue: Loading a profile from the Home/Setup/Profile menu will cause the unit to restart the application. This will be fixed in the next release.

Software version 4.1.3, February 5, 2009

4. New feature: LLC/SNAP frame format under Setup/Header
5. New feature: Frame Delay Variation (jitter) measurements are now available in the RFC2544 Latency test.
6. Fix PPPoE login username to support 50 characters
7. Fix crash in RFC2544 menu (coming out of throughput test menu);
8. Fix link partner advertisement bugs in Setup/Port/Status
9. New MX Discover/Loopback Control operation: From this release forward after assigning an IP address in the Home/IP menu, the user must exit the Home/IP menu in order to make effective use of the MX Discover and Loopback control features.

Software version 4.1.2, January 15, 2009

1. Fix throughput bug. Traffic would intermittently stop after receiving pause frames.

Software version 4.1.1, January 4, 2009

1. Fix discovery/loopback under VLAN;

Software version 4.1.0, December 19, 2008

1. Add event error count in BERT/THROUGHPUT;
2. Add bandwidth compression in remote control;
3. Add link partner advertisement status;
4. Fix 1000T option control



5. Fix the bug where ReVeal cannot retrieve a large number of result files
6. Fix MPEG4 stream measurement in IPTV

Software version 4.0.22, Decemebr 12, 2008

1. Fixed a ping failure issue when VLAN tag was enabled in the IP menu.

Software version 4.0.21, November 21, 2008

1. Fixed MX Discovery feature and Loopback Control: In 4.0.20 the MX Discover and Loopback control is not working properly.
2. Please note that in order for the MX Discover and Loopback control to work in this release and other releases in the future, the unit must not be left in the Home/IP menu. For proper use of the feature please leave the unit (that will be discovered and respond to loopback commands) in the Home menu.

Software version 4.0.20, November 14, 2008

1. Fixed Ping packet loss on test ports
2. Improved IPTV performance when receiving high bandwidth traffic
3. Improved UI performance when receiving high bandwidth traffic in the IP functions menus.
4. Added VoIP Check feature: This is feature is part of the VoIP Call Expert or VoIP Expert SW option or it can be purchased alone as a separate option.
5. IPTV is no longer available in the 10/100T management port.
6. Enhances the SIP authorization and ID input in VoIP Call registration/configuration. The user can now add a URL in the user name.
7. Improved IP connectivity when VLAN tag is enabled in the Home/IP or Tools/IP Tools menu.

Known Issues in software version 4.0.20

1. Round Trip delay measurements in Throughput/Per Stream results will display large invalid values when there is no loopback at the far end. RTD will only display valid measurements when the ar end test partner is in loopback mode. In a future release, protection will be added in order for the test set to recognize traffic to measure or not to measure RTD on.

Software version 4.0.13, July 31, 2008

1. Fixed UI bugs in VoIP and IPTV
2. Fixed fiber port link loss bug. When the fiber cable was unplugged and plugged back in, the Frame LED would not recover to a green status.
3. Fixed random CRC errors in 100M Auo-Nef OFF mode
4. Fixed VLAN Scan; when two VLAN tags were present the VLAN scan would not detect any of the tags. With the fix it returns the VLAN Scan to its original operation: when two VLAN tags are present, the inner VLAN tag is detected.
5. Fixed VLAN configuration in the Home/IP and Home/Tools/IP Tools menu: before the VLAN parameters could be configured but would not appear on the screen.

Known Issues in software version 4.0.13



1. IPTV mode: When the unit receives multicast IP traffic, the UI slows down. This issue will be fixed ASAP and released in the next SW version.
2. Ping function on the test port losses packets. When hundreds of pings are sent, the unit experiences a 1-3% packet loss. This issue will be fixed ASAP and released in the next SW version.

Software version 4.0.9, May 23, 2008

1. Fix a Remote Control bug in the previous releases. When Remote Control was launched the session would not start. This is now fixed.

Software version 4.0.8, May 22, 2008

1. Increased the fan speed. In the previous version the fan speed was at a lower setting.
2. Changed the Traffic Flooding option to MAC Flooding and VLAN Flooding options. ReVeal MX 4.0.3 now supports MAC and VLAN Flooding option enabling as well.

Known Issues in software version 4.0.8/4.09

1. Fibre Channel will not be supported in MX100 as it was previously noted. FC will only be supported in the MX120 moving forward.
2. IPTV current limitations: multiple programming streams are currently not supported. This is the case where multiple programs/channels are embedded in a single stream. This is planned and in the roadmap for a future release.
3. RFC 2544 Asymmetric Mode: When results are saved for both the UP and Down stream results, they are saved as two separate results files.

Software version 4.0.7, May 19, 2008

1. Uniform frame size selection for BERT and Throughput: Uniform frame size distribution is now available in BERT/Throughput. It is not available for Layer 4.
2. Asymmetric RFC2544: Fix some instability issues present in the previous release.
3. TCP header support: Added TCP header (port configuration) support. This is not a real TCP Throughput test. We are simply generating the traffic with a proper TCP header like we do with UDP.
4. VLAN flooding: Similar to MAC Flooding. It is available in Throughput single stream. Please note that VLAN Flooding is a SW option in the latest price list.
5. Packet capture: Added some very basic and limited packet capture. It appears under the Home/Add. Tests menu. How it works: start/stop the capture. In the Home/Files folder you will see the .PCAP capture file. Use Reveal MX or a USB device to export the file to your PC and view the file with Ethereal. The number of frame you can capture depends on frame size. The smaller the frame size, the more frames you can capture.
6. Re-start button in Throughput: Added a re-start button to Throughput. Before it was only available in BERT.
7. 100FX adaptor mode: In Home/Setup/Port we added the 10/100T-to-100FX selection. Selecting this will turn on the power on the USB port. This allows the user to plug in a USB-powered media converter for 100FX applications.
8. IPG BW configuration: Added BW configuration based on IPG bytes. Available in BERT and Throughput.



9. Single Burst BW configuration: Added BW configuration based on a specific number of frames to transmit. Available in BERT and Throughput.
10. MAC address setting for IP tools: Useful for IPTV MAC-authentication applications. Allows the user to change the default MAC address of the test port under the IP menu.
11. User defined VLAN type field: Added in BERT/Throughput/RFC 2544. Allows the user to configure a VLAN type that is different to the standard options available.
12. G.723, G.729 codec for VOIP: Option enabling required. Please note that these CODECS are listed as SW options in the latest price list.
13. QoS (Y.1541) Traffic Classification: This is a traffic classification column we added in the Multiple Streams Results Global/Stream Summary tab. The classification is based on frame loss and jitter parameters described in the ITU-T Y.1541 standard. NOTE: We do not do the measurements in the method described in the standard. We still do our own measurements, but apply the limits in the standard.
14. ReVeal Easy Connect: Under Home/Tools you can start the Reveal EX Connect app when connected directly to your PC. In this case the management port will function like a DHCP server, assigning the PC an IP address. Open ReVeal, press connect. It should see the unit with no need of configuring the PC or test set. Note: PC must be in DHCP mode.
15. Fixed an RFC2544 bug that was present in the previous release.
16. Fixed some IPTV freeze issues in the previous release.
17. Overall enhancements and minor bug fixes to the operation of the unit.
18. MUST use ReVeal MX 4.0.2 for results viewing/printing, etc.

Software version 3.0.37, Jan. 15 2008

1. Added Q-in-Q Counters. Any incoming frame with two VLAN tags will be counted in the Q-in-Q counters located in the Traffic tab.
2. Enhanced Jumbo Frames: The maximum jumbo frame size has been increased from 9000 bytes to 10,000 bytes.
3. Out of Sequence Frame Counters: Out-of-Sequence (OOS) frame counters have been added to the Throughput/Multiple Streams application. They are located in the Errors tab.
4. Layer 4 Traffic Generation: Layer 4 (UDP) traffic has been added to BERT and Throughput. It is now possible to configure UDP source and destination ports for the test traffic. NOTE: The maximum frame size allowed in Layer 4 is 1518 bytes.
5. RFC 2544 Asymmetric Mode (Demo Release): Asymmetric mode is now available as a demo release. Some enhancements are still under development; enhancing the UI and the test process. Asymmetric mode allows the user to test the upstream and downstream direction with different test rates. Please download the RFC 2544 Asymmetric Guide from the VeEx extranet under the Marketing Material folder. The guide shows how to successfully demonstrate and operate the feature with the current implementation. NOTE: Asymmetric mode is option controlled. You will need to enable the option with the latest Reveal MX (3.2.3).
6. Remote Profiles have been removed from the Setup/Profiles menu. These profiles appeared in the previous release (3.0.36).
7. Default MAC Source Address: A Default MAC Source address button has been added in the Header/MAC configuration screen. By pressing the Default MAC Src button, the MAC Source field



is populated with the MAC address assigned to the unit.

Known Issues in software version 3.0.37

1. Fibre Channel feature is not available on the MX100. Currently it is only available for the MX120.
2. Two new options have been added to the price list and test set: Traffic Flooding and Asymmetric Testing. Traffic flooding enables the MAC flooding feature and will enable a VLAN flooding feature in the future. The Asymmetric option will enable the RFC 2544 asymmetric feature when it becomes available in the future.
3. Optical power measurements are only supported with the SFPs shipped with the unit. In future releases the MX100 will have the ability to read power levels from other Finisar (and other vendors) SFPs that support digital diagnostics. NOTE: This capability will depend on the SFP vendor implementation of digital diagnostics. Not all vendors follow the standardized approach; therefore the ability to read the optical power measurements for different vendors will be on a case-by-case basis.

Software version 3.0.36, Dec. 10 2007

1. Fixed Tx Framed Rate in saved result. Results were not matching between the test set and the exported results to ReVeal.
2. Fixed VLAN scan multistream result. In previous release the results were only displayed in the Global results.

Software version 3.0.35, Dec. 03 2007

1. Add IPTV MDI enhancement
2. Add battery icon info, and file system icon info. Now by tapping on the battery and file system icon at the top of the UI brings up an information window that displays the battery information and file storage capacity.

Software version 3.0.34, Dec. 01 2007

1. LOS counters fixed: Before the LOS counter was only activated only after the signal was recovered. Now the LOS counters start counting the moment the signal is lost until it is recovered.
2. Event Log change: LOS event to LOS Begin and LOS end. Before there was only a general LOS event log.

Software version 3.0.33, Nov. 28 2007

1. Fixed non-test and test total doesn't sum up to the total Rx problem. Bug was introduced in a previous version; the non-test traffic was not being summed to the total traffic, therefore there was a mismatch in traffic count.

Software version 3.0.32, Nov. 27 2007

1. Fixed STP packet caused bit errors in throughput test. If the test set received spanning tree protocol PDUs the test set would consider it test traffic and take bit errors.
2. Add DTMF in SIP softphone. Applies to VoIP application.
3. Fixed default MAC and IP address in the configuration. The default MAC and IP addresses would not be saved if the user exited the Setup menu.



MX100 Metro Expert

Software Release Notes
Last Update: June 20, 2011

Software version 3.0.31, Nov. 21 2007

1. Fixed TX frame counter refresh problem when there is no incoming traffic: Before the TX frame count would only start when it received traffic.