# Network Master Pro/Flex Release Notes

## **Product Configuration**

The following table shows the relationship between the changed application and modules described in the Revision History.

Main frame	Module	Changed Application
MT1100A/MT1000A	—	[Framework][Remote][SEEK]
Common		
MT1100A	MU110010A	[ETH][OTN][CPRI][FC][SDH/SONET][PDH] [MxH]
	MU110011A	
	MU110012A	
	MU100013A	
MT1000A	MU100010A	
	MU100010A1	
	MU100011A	
	MU100090A	[GPS]
	MU100090B	
	MU100020A	[OTDR][FTTA][OLTS]
	MU100021A	
	MU100022A	
	MU100023A	
	MU100040A	[CPRI-RF]
	MU100040B	

#### Latest Installer File Name

MT1000A	MT1100A
14.00.MT1000A_SW14.00.MU100011A_DATA	12.09.MT1100A_SW
MX100001A-Setup-14.00-xxxxx.exe	
MX100003A-2.0.0.63-xxxxx.exe	MX100001A-Setup-12.09-xxxxx.exe
	MX100003A-2.0.0.62-xxxxx.exe

The following table shows the latest software and corresponding operation manuals.

Operation Manual	Doc. No.	MT1000A	MT1100A
MT1000A/MT1100A/MT1040A Remote Scripting	M-W4041AE	12	12
Operation Manual			
MT1000A Network Master Pro Transport modules	M-W3933AE	29	—
Operation Manual			
MT1100A Network Master Flex Operation Manual	M-W3735AE	_	31
MT1000A Network Master Pro OTDR Modules	M-W3810AE	25	—
Operation Manual			
MT1000A Network Master Pro OTDR Modules	M-W3859AE	8	
Remote Scripting Operation Manual			
MX100003A Scenario Edit Environment Kit Operation	M-W4042AE	4	3 <sup>rd</sup>
Manual			
MT1000A MU100040A/MU100040B Network Master Pro	10580-00443	A	_
Operation Manual			

MX100003A	Related MX100003A	Working MT1000A/MT1100A
Version	Operation Manual Edition	Firmware Version
2.00.63	4.0	14.00
2.00.62	4.0	12.05 to 12.09
2.0.0.61	3.0	12.03 to 12.04
2.0.0.60	2.0	12.00
2.0.0.58/59	2.0	11.08
2.0.0.55	1.0	10.02 to 11.07
	Title Changed <sup>1</sup>	
2.0.0.54	13.0	10.02 to 10.03
2.0.0.53	13.0	10.00 to 10.01
2.0.0.52	12.0	9.09 to 9.13
2.0.0.51	11.0	9.07 to 9.08
2.0.0.36/43/45/48/49/50	5.0 to 10.0	5.04 to 9.06
2.0.0.23	4.0	5.04 to 7.04
1.0.0.76	2.0 to 3.0	5.04 to 7.01
1.0.0.72	1.0	5.04

#### The Relation Between Software and Operation Manuals

The title changed from "MX100003A MT1000A/MT1100A Scenario Edit Environment Kit Operation Manual" to "MX100003A Scenario Edit Environment Kit Operation Manual".

MT1000A/MT1100A	Related Operation Manual Edition						
Firmware		MT1100A					
Version	MU10001xA	MU100040A/B	MU10002xA	MU11001xA			
Version	(Transport)	(CPRI-RF)	(OTDR)	(Transport)			
14.00	29	A	25	_			
12.09	28	A	24	31			
12.08	27	A	23	31			
12.07	27	A	23	31			
12.06	26	A	22	31			
12.05	24/25	A	22	-			
12.04	23	A	21	31			
12.03	22	A	21	30			
12.00	19/20/21	A	19/20	29			

44.00	40	•	40	00
11.08	18	A	19	29
11.07	17	A	18	29
11.06	17	A	18	29
11.05	17	A	18	29
10.04	16	A	17	28
10.03	15	A	17	28
10.02	14	A	16	27
10.01	13	A	15	26
10.00	13	А	15	26
9.13	13	А	14	26
9.12	12	A	13	26
9.11	11	A	12	25
9.10	10	A	11	25
9.09	9	A	11	24
9.08	8	A	10	23
9.07	8	A	10	22
9.06	7	A	10	21
9.05	6	A	10	20
9.04	5	A	10	19
9.03	5	A	10	19
9.02	5	А	9	19
9.01	5	А	9	19
9.00	4	Α	9	18
		Title Changed <sup>2</sup>		
8.02	3	А	9	17
8.01	2	А	9	16
8.00	1	А	8	-
	Title Changed <sup>3</sup>			
7.05	15	А	7	15
7.04	14	А	6	13
7.03	14	А	6	13
7.02	13	А	5	12
7.01	12	А	5	10

<sup>&</sup>lt;sup>2</sup> The title changed from "MT1000A MU100040A Network Master Pro Operation Manual" to "MT1000A MU100040A/MU100040B Network Master Pro Operation Manual".

<sup>&</sup>lt;sup>3</sup> The title changed from "MT1000A MU100010A Network Master Pro Operation Manual" to "MT1000A Transport Modules Operation Manual".

7.00	12	А	5	10
6.02	11	-	4	10
6.01	11	-	4	10
6.00	11	-	4	10
5.04	10	-	3	9
5.03	10	-	3	9
5.02	10	-	3	9
5.01	10	-	3	9
5.00	9	-	2	8
4.00	8	-	1	7
3.04	8	-	-	7
3.03	8	-	-	7
3.02	7	-	-	6
3.01	6	-	-	5
3.00	5	-	-	4
2.05	4	-	-	4
2.04	4	-	-	3
2.03	3	-	-	2
2.02	2	-	-	2
2.01	2	-	-	2
2.00	2	-	-	1
1.00	1	-	-	1

# Installation Procedure

- 1. Confirm that the USB memory used for installation is recognized by the MT1000A/MT1100A and that the USB memory is empty. (\*1)
- 2. When using battery, make sure that there is 40% (or more) power in the battery of the instrument.
- 3. Remove the USB memory from the MT1000A/MT1100A.
- 4. Press the power button to shut down the MT1000A/MT1100A. Never force to power off by holding the power button pressed for several seconds.
- 5. Remove the AC adapter or cable and see the power button turns to gray.
- Copy the installer (X.XX.MT1000\_SW, X.XX.MU100011A\_DATAor X.XX.MT1100\_SW) to an empty USB memory stick (refer to step 1) formatted to FAT32 or NTFS file system.
   If your version is V11.05 or later, either of the two formats will do. If the version is V10.04 or older, you need FAT32 format.
- 7. Insert the USB memory stick into MT1000A/MT1100A.
- 8. Boot MT1000A/MT1100A to start installer.

The instrument will detect the USB stick, and start installing the software. After the installation has finished the instrument will reboot and start with the new software.

When installing MT1000A software which includes MU100011A, the installation of MU100011A data starts automatically at the Network Master rebooting.

9. Remove USB stick after installation is complete.

You can check the installed version at **System Information** screen.

(\*1) The USB memory can be used when it is recognized by the File Manager after insertion in the MT1000A/MT1100A. (Refer section 4.2.1 Toolbar either to the Network Master Pro MT1000A Transport Module operation manual or the Network Master Flex MT1100A operation manual for the File Manager display method.) If the inserted USB memory is not recognized, it cannot be used for installation. Choose another USB memory instead.

### Installation Procedure via network.

- 1. When using battery, make sure that there is 40% (or more) power in the battery of the instrument.
- Install the Control Software(MX100001A) on your PC.
   (Please refer "3.5.1 Installation of Control Software" on MT1000A Transport Modules Operation Manual or MT1100A Network Master Flex Operation Manual.)
- Configure the Ethernet communication between the Control Software(MX100001A) and MT1000A/MT1100A. (Please refer "3.5.2 Connection and Setup" on MT1000A Transport Modules Operation Manual or MT1100A Network Master Flex Operation Manual.)Select the update tab on Control Software to show the upgrading box.

Version Information	
Local SW Version: 3.01 , 301	
Remote Unit SW Version: 3.01, 301	
File Upload	
Select File Path:	
Upload Progress:	0%0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %0
Installation	
NOTE: Pressing Start Installation will disconnect application from the remote unit and will reboot the remote unit. Installation process cannot be remotely nonitored. Please reconnect after few minutes.	Start Installation
emote unit, installation process cannot be remotely nonitored. Please reconnect after few minutes.	
	Clo

- 4. Touch Select File to launch the dialog box.
- 5. Select the software file. Progress bar shows Upload Progress. Touching Cancel aborts the file uploading.
- 6. After file uploading finishes, touch Start Installation.

Touching Start Installation will reboot the Network Master. Installation process cannot be remotely monitored. Please reconnect after several minutes.

## SEEK Scenario

After installing the software, a set of SEEK scenario is copied in the "/Internal/windowsinstaller/ scenario" folder. Register the scenario to use it. Refer to the "4.2.1 Registering the Scenario" in the Scenario Edit Environment Kit Operation Manual.

Scenario Name	Description	Module
xCVRQuickCheck_06.obcfg	This scenario quickly checks optical modules.	MT1000A
	Refer to the	MU100010A
	"Optical Transceiver Simple Check xCVR Quick Check	MU100010A1
	SEEK Scenario" on Anritsu WEB Site.	MU100011A
xCVRQuickCheck_00.obcfg		MT1100A
		MU110013A

# **Revision History**

14.00 Aug 30, • Key Added Feature	
2023	new 10G Multirate Module MU100010A1 to
measurement modul	le line
Fixed bugs	
➢ [Framework] Fixed	bug preventing WLAN connection for some
WLAN Certificated	Countries (14688)
➢ [ETH] Fixed bug pro	eventing red display of failed AVAIL result in
Y.1564 application re	eport file (14627)
12.09 May 8, 2023 ● Key Added Features	
➢ [ETH] The latency up	pper limit of the RFC2544 application has been
extended from 99 μs	s to 999 ms (14648)
Fixed bugs	
➢ [ETH] Fixed bug	in the MU1x0010A Mon/Gen application
	p input during Burst transmission (13897)
	the MU1x0010A Mon/Gen application causing
	detection when stopping traffic during
measurement (1461	,
	causing a Tx pattern code violation during
	egotiation and Link-down (14589)
	disconnection of the test instrument from the
	term MX109020A Site Over Remote Access
operation (14644)	ng incorrect MT1000A power-button and
<ul> <li>Fixed bug causin</li> <li>battery-icon displays</li> </ul>	•
12.08 Feb 1, 2023 ● Fixed bugs	
➢ [ETH] Fixed bug son	netimes causing Unavailable occurrence when
Frame Loss mis-dete	ected at long-term Performance Test at E-Mix
sending using SAT (	Y.1564) application (14639)
12.07Dec 8, 2022•Key Added Features	
➢ Added G0436A as w	ell as G0310A to MT1000A supported
batteries (14562)	
Fixed bugs	
	nexpected Ping Reply to Ping Request
including checksum	
	sing TX Code counter to lose conistency when
TX frequency change	ed by Stimuli function (14446)

				AAAA	<ul> <li>[CPRI] Fixed bug causing incorrect high-layer Hyperframe and Code word counts (undefined value) whether Loss of signal (LOS) and/or LOF detected (14505)</li> <li>[ETH] Fixed bug sometimes preventing detection of LOS and LOSA recovering in less than 1 s (14527, 14572)</li> <li>[ETH] Fixed bug causing incorrect UDP checksum in Sync message sent by test equipment 25GbE IEEE1588v2 function (14552)</li> <li>[OTDR] Added screen operation for registering calibration date to</li> </ul>
					solve issue of lost test-equipment calibration date after equipment shipment (14555)
				$\triangleright$	[ETH] Changed Clock Source default setting at IEEE1588v2
					setting screen from Internal to GPS (14614)
					[ETH][OTN] Fixed bug preventing change settings at MU100011A Transceiver setting (14622)
12.06	Aug	31,	•	Key	Added Features
	2022				[ETH] Added Operation mode to Reflector application at reception of multicast MAC frame. Supports "Layer 2 Transparency test". (14502)
			•	Fixe	ed bugs
					[ETH] Fixed bug causing offset setting to drift by one byte when 'Pattern' selected at filter conditions of MU100010A packet filter function. (12285)
				>	[ETH] Fixed Sync test bug causing time stamp drift when exported to csv. (13091)
					[ETH] Fixed bug causing PRBS Sync Alarm detection when multicast frame, such as PAUSE frame, STP or LLDP, received during BERT measurement. (13412)
					[ETH] Fixed bug at measurement port setting preventing obtaining correct DHCP client IPv4 address on VLAN network. (14289)
					[ETH] Fixed bug causing incorrect time stamp when using SyncE
				$\triangleright$	frame dedicated capture function. (14433) [PDH] Fixed bug sometimes causing crash during DS3
					measurement. (14444)
				4	[ETH] Fixed bug (only in version 12.05) sometimes preventing one-way latency (delay) measurement using two MT1000A units with installed MU100010A. (14449)

12.05	Feb	22,	•	Fix	ed bugs
	2022			≻	[VIP] Fixed bug preventing operation of Auto Capture function
					when using G0306B. (14356)
				$\triangleright$	[MxH] When using MU100011A module, fixed bug causing
					dual-port mis-selection even when not using 25G eCPRI/RoE Dual
					Port Ability function. (14342)
				۶	[Framework] When using MU100090B module, fixed bug
					preventing power supply to antenna. (14306)
					- Recovery method: On the GUI, make MU100090B power ON
					first. Then set voltage of antenna power supply OFF. Finally, select
					antenna power supply either 3.3V or 5V.
				$\triangleright$	[ETH] When creating report after loading measurement results,
					fixed bug preventing output of LOS item with and without optical
					transceiver. (13916)
				۶	[ETH] [MxH] When using 25GbE or faster interface, fixed bug
					causing BER_Alarm when MPLS protocol set. (14401)
					- MU100011A Module: Occurs with V12.00 or later
12.04	Dec	20,	•	Fix	ed bugs
	2021			۶	[ETH] [MxH] Fixed bug causing screen freeze when receiving
					packets at destination UDP port with different setting to send
					source UDP port when using UDP protocol at either Ethernet or
					CPRI/RoE BERT applications (12575)
				۶	[ETH] Fixed bug causing non-existent FCS error when setting
					interface of 10GbE or less at Reflector application (13954)
				۶	[ETH] Fixed bug causing status alarm when long-term
					measurement stops (14085)
				۶	[SDH/SONET] Fixed bug causing incorrect display of AU3 pointer
					monitor results (14089)
					[ETH] Fixed bug causing lost configuration and inability to test
					when executing One-way Test with VLAN enabled at Y.1564
					application (14139)
				$\triangleright$	[ETH] Fixed bug preventing correct reading of measurement
					results by MX100001A at SyncTest application (14256)
				$\triangleright$	[ETH] Fixed bug preventing error identification when receiving
					ICMP reply packet including packet length error of 463 or more
					bytes at 10GbE or slower interface (14273)
					[ETH] Changed initialization of FEC settings when switching
					interface to 100GbE (14053)

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				[Framework] At SyncAnalysis, changed to execute analysis when
				[Analysis] button pressed (14084)
				[Remote][ETH] Fixed bug causing instrument restart when setting
				IFG lower threshold at SCPI control (14271)
				[GPS][Framework] Fixed bug causing screen freeze when
				rebooting with GPS/GNSS setting in fixed-location mode and
				clicking GPS/GNSS icon (14301)
12.03	Oct 4, 2021	•	Key	/ Added Features
			$\triangleright$	[ETH][Framework] Added PTP wander measurement and analysis
				functions. (14142)
			$\triangleright$	[ETH][Framework] Added G.8275.2 network Packet Selected TE
				measurement. (14143)
			$\triangleright$	[ETH][Framework] Added 1PPS wander measurement and
				analysis functions. (14144)
			$\triangleright$	[Framework][SEEK] SEEK now supports pass/fail evaluation for
				PTP/SyncE wander, PDV, and FPP. (14145)
			$\triangleright$	[ETH] Added support for use of Single Lambda MSA-compliant
				QSFP28 optical transceivers.
		•	Fix	ed bugs
			$\triangleright$	Fixed bug in Mon/Gen application v7.01 and later preventing
				sending at set burst interval. (13893)
			$\triangleright$	[ETH] Fixed bug causing Error Frames at Frame Rate of 99.4% or
				more at 15500-byte Frame Size when performing RFC2544 test at
				MT1100A 40G/100G interface. (9671)
			$\triangleright$	[ETH][OTN][SDH][CPRI/RoE][FC] Fixed bug causing crash when
				report output set to include Event Log and CSV format. Limited
				number of report output logs; to output all the logs, use CSV output
				from Event Log in application (13579)
			$\triangleright$	[ETH] Fixed bug in Ping application causing output of IPv4 address
				instead of IPv6 address in port setting report when outputting
				measurement results using IPv6 as PDF report. (14083)
			$\triangleright$	[Framework] Now displays location name in GPS/GNSS report
				column when fixed position setting enabled at MU100090B.
				(13992)
			$\triangleright$	[ETH][Framework] Now displays changes in MU100090B status in
				Transport application Event Log. (13865)
				[Framework] Now permits holdover guide setting only when
				MU100090B-001 option (Multi-band) installed. Displays [Ready for
		1		

	<u>т</u> т		
			Holdover] only when Holdover guide not enabled. (13873)
			[Framework] Fixed bug preventing GPS/GNSS reception when
			Fixed Position setting enabled at MU100090B. (13963)
			[Framework] Revised calculation error in permissible drift amount
			at Holdover using MU100090B. (13993)
			[Framework] Fixed bug enabling QZSS Setting when no
			MU100090B-002 option installed (Multi-GNSS). (13928)
		$\triangleright$	[ETH] Added calculation correction function using connection
			configuration to SyncTest application 1PPS cable correction value
			input. (14069, 14091)
		Þ	[Framework] Fixed bug causing mis-correction when 1PPS set at
			configuration without MU100090B installed. (13976)
		Þ	[Framework] Changed SyncE wander analysis failure summary
			status notification color from yellow to red. (14005)
			[Framework] Corrected SyncE wander mask definition. (14076)
		Þ	[Framework] Fixed bug sometimes causing OFF WLAN setting to
			revert mistakenly to ON. (13973)
			[ETH] Fix bug at IEEE1588v2 Time source [Atomicclock] setting
			causing drift in time at Master side when source is Internal and not
			GPS. (14081)
12.00	May 24,	• K	ey Added Features
	2021		Added High Performance GNSS Disciplined Oscillator
			MU100090B module to product line supporting GPS, Galileo,
			GLONASS, Beidou, and QZSS. (13901)
		Þ	[ETH][Framework] Added new SyncE Wander (TIE, MTIE,
			TDEV) function. (13902)
		A	
		A	[ETH] Added SyncE support for VLAN tags. (13907)
			[ETH] Added SyncE support for VLAN tags. (13907)
			[ETH] Added SyncE support for VLAN tags. (13907) [ETH][Framework] Added IEEE1588v2 PDV (Packet Delay
			[ETH] Added SyncE support for VLAN tags. (13907) [ETH][Framework] Added IEEE1588v2 PDV (Packet Delay Variation) and FPP (Floor Packet Percentile) analysis functions. (13903)
			[ETH] Added SyncE support for VLAN tags. (13907) [ETH][Framework] Added IEEE1588v2 PDV (Packet Delay Variation) and FPP (Floor Packet Percentile) analysis functions. (13903)
		A	<ul> <li>[ETH] Added SyncE support for VLAN tags. (13907)</li> <li>[ETH][Framework] Added IEEE1588v2 PDV (Packet Delay Variation) and FPP (Floor Packet Percentile) analysis functions. (13903)</li> <li>[ETH] Added ability to disable 1PPS measurement to SyncTest</li> </ul>
		A	<ul> <li>[ETH] Added SyncE support for VLAN tags. (13907)</li> <li>[ETH][Framework] Added IEEE1588v2 PDV (Packet Delay Variation) and FPP (Floor Packet Percentile) analysis functions. (13903)</li> <li>[ETH] Added ability to disable 1PPS measurement to SyncTest application. (13904)</li> </ul>
		♪ ● F	<ul> <li>[ETH] Added SyncE support for VLAN tags. (13907)</li> <li>[ETH][Framework] Added IEEE1588v2 PDV (Packet Delay Variation) and FPP (Floor Packet Percentile) analysis functions. (13903)</li> <li>[ETH] Added ability to disable 1PPS measurement to SyncTest application. (13904)</li> </ul>
		♪ ● F	<ul> <li>[ETH] Added SyncE support for VLAN tags. (13907)</li> <li>[ETH][Framework] Added IEEE1588v2 PDV (Packet Delay Variation) and FPP (Floor Packet Percentile) analysis functions. (13903)</li> <li>[ETH] Added ability to disable 1PPS measurement to SyncTest application. (13904)</li> <li>ixed bugs</li> <li>[ETH] Fixed bug causing incorrect lane settings for VOD, Pre,</li> </ul>
		♪ ● F	<ul> <li>[ETH] Added SyncE support for VLAN tags. (13907)</li> <li>[ETH][Framework] Added IEEE1588v2 PDV (Packet Delay Variation) and FPP (Floor Packet Percentile) analysis functions. (13903)</li> <li>[ETH] Added ability to disable 1PPS measurement to SyncTest application. (13904)</li> <li>ixed bugs</li> <li>[ETH] Fixed bug causing incorrect lane settings for VOD, Pre, Post, and DEF values at QSFP28 and CFP4 transceiver settings. (13851)</li> </ul>

				<ul> <li>(13755)</li> <li>[ETH] Fixed bug preventing correct graph display when IEEE1588v2 message interval set to 1 s or more at SyncTest. (13738)</li> <li>[ETH] Fixed bug in SyncE Frame Capture function sometimes enabling extra size-0 file. (13782)</li> <li>[Framework] Fixed bug preventing correct folder specification setting when removing USB memory while results folder set to USB (12890)</li> </ul>
11.00	Max	40		USB. (13880)
11.08	Mar	18,	•	Key Added Features
	2021			<ul> <li>[ETH] Added function to Reflector application to respond to VLAN</li> <li>ABD and ping (12517)</li> </ul>
				ARP and ping. (12517)
				<ul> <li>[Framework] Added function for updating instrument connected to MX109020A to latest firmware version. (13832)</li> </ul>
				<ul> <li>[SEEK][Framework] Added Opt-003 to MX109020A supporting</li> </ul>
				upload of SEEK scenario execution results to cloud storage and
				customer's server. (13833)
			•	Fixed bugs
				<ul> <li>[SDH/SONET] Fixed bug preventing communications at E3 and</li> </ul>
				DS3 interfaces. (13744)
				<ul> <li>[ETH] Fixed bug causing instrument crash when executing IPv6</li> </ul>
				Stateless for IEEE1588. (13743)
				<ul> <li>[ETH] Fixed bug causing detection of unintentional frame loss</li> </ul>
				when executing burst test in RFC2544 application. (12818)
				<ul> <li>[Framework] Fixed bug preventing display of cursor when USB</li> </ul>
				mouse connected. (13800)
				> [ETH] Fixed bug in SyncTest application preventing operation of
				precision frequency counter at 25GbE. (13816)
11.07	Feb	11,	•	Fixed bugs
	2021			<ul> <li>[Framework] Fixed option management bug in V11.06 with</li> </ul>
				following option configurations installed:
				Customers using V11.06 with option configurations (a) and (b)
				should upgrade to V11.07.
				(a) With only MU100010A-001 installed
				(b) With either MU100010A-011 or MU100010A-012 installed
				(The bug does not occur when either MU100010A-001/011 or
				MU100010A-011/012 is installed.) (13768)
11.06	Dec	23,	•	Fixed bugs

	2020			<ul> <li>[ETH] Fixed bug causing crash by the SCPI command to set the Jumbo frame size limit. (ETHernet:PORT<pt>:SETTings:JFSize) (13703)</pt></li> </ul>
11.05	Dec	22,	•	Key Added Features
	2020			<ul> <li>[Framework] Added WLAN communications function using USB</li> <li>WLAN dongle.</li> </ul>
				<ul> <li>[ETH] Added OAM function for Reflector application. (13651)</li> </ul>
				[OTDR] Added fiber length check Enable/Disable function
				When this setting is Enable, the fiber length is examined prior to
				measurement and if it exceeds the distance range, the optical
				pulse output interval is adjusted automatically to prevent
				generation of unwanted reflections from points other than the
				event point. When this setting is Disable, the time until
				measurement starts is shortened. This function is always enabled
				for versions after V9.13, but can be enabled/disabled in this
				version. When the language setting is not Japanese, the Enable
				default is set automatically at a version upgrade. (13698)
			•	Fixed bugs
				[Wireshark] Fixed bug causing error when using eCPRI decode
				Lua script when using Wireshark version later than 3.4 on PC.
				(13682)
				<ul> <li>[ETH] Fixed bug preventing recognition of 1519-byte Frame over size error. (13679)</li> </ul>
				[SEEK] Fixed error message when SEEK results file name
				includes illegal character (/, !, ?, etc.). (13644)
				<ul> <li>[ETH] Fixed bug preventing correct output of TE1 and Terr graphs when outputting "2-Step Master Port" Time Error measurement results as PDF report at SyncTest application. (13643)</li> </ul>
				<ul> <li>[ETH] Fixed bug preventing correct generation of report file at</li> </ul>
				long-term measurement at RFC2544 application. (13507)
				<ul> <li>[Framework] Fixed bug causing disconnect when using DHCP at</li> </ul>
				WLAN connection. (13696)
10.04	Sep	30,	•	Fixed bugs
	2020	,	_	<ul> <li>[ETH] Fixed bug causing measurement result output without errors</li> </ul>
				and no saved LOFA counter history log (13624)
				<ul> <li>[ETH][MxH] Fixed bug causing sending of IFG of less than 5 bytes</li> </ul>
				at line rate of at least 80% at following frame size(s) at 25GbE
	1			

10.03	Aug 11,	•	<ul> <li>[ETH] Fixed bug causing Ping application crash at output of PDF report after long-term measurement covering several days (13410)</li> <li>[ETH] Fixed bug causing generation of file with missing data at Ping application when outputting PDF report after long-term measurement of several days (13408)</li> <li>Removed following security vulnerability (13544)</li> <li>X11 server at MT1000A/MT1100A/MT1040A GUI accepts unrestricted connections from host</li> <li>Key Added Features</li> </ul>
	2020 Jul 13, 2020	•	<ul> <li>[SEEK] Added support for MT1040A.</li> <li>Key Added Features</li> <li>[ETH] Added following functions to RFC2544. (12697)         <ul> <li>Added Latency, Jitter, Throughput Pass/Fail threshold value</li> <li>Added Latency, Jitter, Throughput Pass/Fail threshold value</li> <li>Support for simultaneous Latency and Packet Jitter measurement</li> </ul> </li> </ul>
		•	<ul> <li>[ETH] Improved Latency and Packet Jitter measurement accuracy at RFC2544 and SAT (Y.1564) measurement. (13550)</li> <li>[OTDR] Added Korean language GUI descriptions. (12847)</li> <li>Fixed bugs</li> </ul>
			<ul> <li>[MxH] Fixed bug causing incrementing PRBS sync alarm when executing communications test while either IEEE1588 or SyncE set to ON at eCPRI test. (12368)</li> <li>[ETH] Fixed bug preventing multicast VLAN support for IEEE1588v2 SMPTE profile. (13485, 13472)</li> <li>[OTDR] Fixed bug causing slow measurement start after switching</li> </ul>
			<ul> <li>[OTDR] Fixed bug causing slow measurement start after switching wavelength when wavelength set to ALL at Separate (Individual) measurement mode setting. (12894)</li> <li>[OTDR] Fixed bug at transmission loss Pass/Fail evaluation when Pass/Fail evaluation reference set to ISO/IEC or JIS. (13537)</li> </ul>
10.02	Jun 4, 2020	•	<ul> <li>Key Added Features</li> <li>Added support for MX109020A Site Over Remote Access; installing MT1000A-011 option enables remote control and file access using MX109020A. (13368)</li> <li>[VIP] Added support for selection of all G0382A option tips. (13332)</li> <li>[VIP] Added message display when pass/fail analysis results range off screen edge. (13333)</li> </ul>

			•	xed bugs	
				-	causing one lost Frame at RFC2544
					ing two MT1000A units with MT1000A operating
					occurs only with 100, 40, and 25GbE interfaces.
				(12833)	
				. ,	causing crash when changing [Line load] unit at
					RFC2544 application. (12939)
				-	d bug causing incorrect detection of PRBS sync
					hecting/disconnecting cable during BER
					ing cross PRBS pattern at 25GbE or faster
				interface. (12594	,
					causing forced restart when outputting Statistics
					measuring interval length with [No Interval] set at
				Ethernet application	
					sometimes causing output of incorrect packet
				• ·	ackets with Frame Size set to [Step] at 25GbE or
				faster interface.	
					preventing normal autofocus operation with some
				tips. (13326)	
10.01	May	11,	•	xed bugs	
10.01					
10.01	2020				d bugs when receiving Ping packet of 2048 bytes
	2020			or more at 25, 40	), and 100GbE interfaces. (13380)
	2020			or more at 25, 40 - [ETH][MxH]	), and 100GbE interfaces. (13380) Sometimes no response to Ping request
	2020			or more at 25, 40 - [ETH][MxH] - [Ping] Some	), and 100GbE interfaces. (13380) Sometimes no response to Ping request times unable to measure at applicable conditions
	2020			or more at 25, 40 - [ETH][MxH] - [Ping] Some - [RFC2544] S	), and 100GbE interfaces. (13380) Sometimes no response to Ping request times unable to measure at applicable conditions Sometimes unable to measure when performing
				or more at 25, 40 - [ETH][MxH] = - [Ping] Some - [RFC2544] S [Router Late	), and 100GbE interfaces. (13380) Sometimes no response to Ping request times unable to measure at applicable conditions
10.00	Feb	20,	•	or more at 25, 40 - [ETH][MxH] = - [Ping] Some - [RFC2544] S [Router Late ey Added Features	0, and 100GbE interfaces. (13380) Sometimes no response to Ping request times unable to measure at applicable conditions cometimes unable to measure when performing ncy Test] at applicable conditions
		20,	•	or more at 25, 40 - [ETH][MxH] - [Ping] Some - [RFC2544] S [Router Late Py Added Features [New HW] Added	0, and 100GbE interfaces. (13380) Sometimes no response to Ping request times unable to measure at applicable conditions cometimes unable to measure when performing ncy Test] at applicable conditions
	Feb	20,	•	or more at 25, 40 - [ETH][MxH] = - [Ping] Some - [RFC2544] S [Router Late 29 Added Features [New HW] Addeo module to produc	0, and 100GbE interfaces. (13380) Sometimes no response to Ping request times unable to measure at applicable conditions cometimes unable to measure when performing ncy Test] at applicable conditions d new MU100023A OTDR 1.31/1.55/1.65-um SMF ct line.
	Feb	20,	•	or more at 25, 40 - [ETH][MxH] = - [Ping] Some - [RFC2544] S [Router Late ey Added Features [New HW] Added module to produc [OTDR] Added "I	0, and 100GbE interfaces. (13380) Sometimes no response to Ping request times unable to measure at applicable conditions cometimes unable to measure when performing ncy Test] at applicable conditions d new MU100023A OTDR 1.31/1.55/1.65-um SMF ct line.
	Feb	20,	•	or more at 25, 40 - [ETH][MxH] = - [Ping] Somet - [RFC2544] S [Router Late ey Added Features [New HW] Added module to product [OTDR] Added "It Correlation" item	0, and 100GbE interfaces. (13380) Sometimes no response to Ping request times unable to measure at applicable conditions cometimes unable to measure when performing ncy Test] at applicable conditions d new MU100023A OTDR 1.31/1.55/1.65-um SMF ct line. Launch Length Correlation" and "Receive Length s to Patch Cord settings.
	Feb	20,	•	or more at 25, 40 - [ETH][MxH] = - [Ping] Some - [RFC2544] S [Router Late 29 Added Features [New HW] Added module to produc [OTDR] Added "I Correlation" item [OTDR] Added 2	<ul> <li>and 100GbE interfaces. (13380)</li> <li>Sometimes no response to Ping request</li> <li>times unable to measure at applicable conditions</li> <li>cometimes unable to measure when performing</li> <li>ncy Test] at applicable conditions</li> <li>d new MU100023A OTDR 1.31/1.55/1.65-um SMF</li> <li>ct line.</li> <li>Launch Length Correlation" and "Receive Length</li> <li>s to Patch Cord settings.</li> <li>00 ns Pulse Width to 0.5 km Distance Range.</li> </ul>
	Feb	20,	•	or more at 25, 40 - [ETH][MxH] = - [Ping] Some - [RFC2544] S [Router Late 29 Added Features [New HW] Added module to produc [OTDR] Added "I Correlation" item [OTDR] Added 2	0, and 100GbE interfaces. (13380) Sometimes no response to Ping request times unable to measure at applicable conditions cometimes unable to measure when performing ncy Test] at applicable conditions d new MU100023A OTDR 1.31/1.55/1.65-um SMF ct line. Launch Length Correlation" and "Receive Length s to Patch Cord settings.
	Feb	20,	•	or more at 25, 40 - [ETH][MxH] = - [Ping] Some - [RFC2544] S [Router Late 29 Added Features [New HW] Added module to produc [OTDR] Added "I Correlation" item [OTDR] Added fu	<ul> <li>and 100GbE interfaces. (13380)</li> <li>Sometimes no response to Ping request</li> <li>times unable to measure at applicable conditions</li> <li>cometimes unable to measure when performing</li> <li>ncy Test] at applicable conditions</li> <li>d new MU100023A OTDR 1.31/1.55/1.65-um SMF</li> <li>ct line.</li> <li>Launch Length Correlation" and "Receive Length</li> <li>s to Patch Cord settings.</li> <li>00 ns Pulse Width to 0.5 km Distance Range.</li> </ul>
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	Feb	20,	•	or more at 25, 40 - [ETH][MxH] = - [Ping] Somet - [RFC2544] S [Router Late ey Added Features [New HW] Added module to produc [OTDR] Added "I Correlation" item [OTDR] Added 2 [OTDR] Added fu csv) using ".sor" enabled only at S	<ul> <li>and 100GbE interfaces. (13380)</li> <li>Sometimes no response to Ping request</li> <li>times unable to measure at applicable conditions</li> <li>cometimes unable to measure when performing</li> <li>ncy Test] at applicable conditions</li> <li>d new MU100023A OTDR 1.31/1.55/1.65-um SMF</li> <li>ct line.</li> <li>Launch Length Correlation" and "Receive Length</li> <li>s to Patch Cord settings.</li> <li>00 ns Pulse Width to 0.5 km Distance Range.</li> <li>unction for batch creation of reports (pdf, xml, or</li> <li>file data saved in built-in or USB memory; function</li> </ul>
	Feb	20,	•	or more at 25, 40 - [ETH][MxH] = - [Ping] Somet - [RFC2544] S [Router Late ey Added Features [New HW] Added module to produc [OTDR] Added "I Correlation" item [OTDR] Added 2 [OTDR] Added fu csv) using ".sor" enabled only at S	<ul> <li>and 100GbE interfaces. (13380)</li> <li>Sometimes no response to Ping request</li> <li>times unable to measure at applicable conditions</li> <li>cometimes unable to measure when performing</li> <li>ncy Test] at applicable conditions</li> <li>d new MU100023A OTDR 1.31/1.55/1.65-um SMF</li> <li>ct line.</li> <li>Launch Length Correlation" and "Receive Length</li> <li>s to Patch Cord settings.</li> <li>00 ns Pulse Width to 0.5 km Distance Range.</li> <li>unction for batch creation of reports (pdf, xml, or</li> <li>file data saved in built-in or USB memory; function</li> <li>Standard OTDR and FTTA applications.</li> </ul>

			auto-measurement.
			[OTDR] Added SCPI command remote control function at OLTS
			application.
			<ul> <li>[SEEK] Added support for outputting each application</li> </ul>
			measurement result as one report (pdf, xml, or csv) for
			measurement sequence including several applications.
			<ul> <li>[SEEK] Added function for describing scenarios such as branch</li> </ul>
			conditions based on information loaded from data described in text
			file. (12808)
			<ul> <li>[SEEK] Added OLTS application support for</li> </ul>
			MU100020A/21A/22A/23A OTDR modules.
		•	Fixed bugs
			<ul><li>[ETH] Fixed bug preventing display of SyncTest application start</li></ul>
			screen depending on option combination when using MU100010A
			software versions later than 9.10. This bug occurs with the
			following hardware: (12687)
			♦ With MT1000A-005 installed
			♦ With MU100010A-011 installed
			♦ With MU100010A-001 not installed
			<ul><li>[ETH][MxH] Fixed bug preventing FEC Symbol Error insertion for</li></ul>
			SFP28 when MU100011A-023 not installed when using
			MU100011A Ethernet application with eCPRI/RoE BERT. (12701)
			<ul> <li>[OTDR] Fixed bug preventing splitter loss display at Pass/Fail</li> </ul>
			evaluation. (12736)
			<ul> <li>[OTDR] Fixed bug causing MT1000A freeze when performing</li> </ul>
			averaging measurement when Auto-measurement Mode set to
			"Advanced" and OTDR Test Mode set to "Auto". (12482)
9.13		12, ●	Key Added Features
	2019		<ul> <li>[OTDR] Added Pass/Fail function for measured Loss results based</li> </ul>
			on either ISO/IEC or JIS standards. (12648)
		•	Fixed bugs
			> [Framework] Updated to not include initialization time (time
			required until OSC lamp lit) in elapsed time after MU100090A
			built-in oscillator power-on displayed in GPS pop-up. Now able to
			correctly confirm 3-hour warm-up time required to meet Holdover
			specification. (12642)
			<ul> <li>[Framework] Fixed bug occasionally preventing recognition of USB</li> </ul>
			memory. (12537)

				<ul> <li>reflections at non-Event points (other than connectors and splices) at OTDR waveform measurement. This issue occurs with the old firmware version when setting a short distance range for the measured fiber. (12488)</li> <li>[ETH] Fixed bug preventing correct statistical results 'Remote Failure' measurement. This bug occurs when setting Port Mode to 'Forced'. (12585)</li> </ul>
				Network Master.
				♦ Either operation panel freeze or occasional Network Master
				reboot when disconnecting G0382A from Network Master.
9.12	Oct	10,	• k	Xey Added Features
	2019			<ul> <li>[ETH] Added Link fault signaling (LFS) emulation function for</li> </ul>
				MU100011A module interfaces of 10GbE or faster (12438)
			• F	ixed bugs
			>	ETH] Fixed following bugs related to DHCP functions
				♦ Bug displaying error message each time expired DHCP lease
				renewed during measurement (12436)
				Bug causing unwanted address release when using DHCP
				server for authenticating validity of "server identifier" option (12367)
				$\diamond$ Bug disabling DHCP settings after address released (12447)
			>	ETH] Fixed bug enabling Remote Fault detection function for
				interfaces other than 1GbE auto-negotiation (12519)
				<ul><li>[ETH][OTN] Fixed bug enabling [+OTN] button for each MonGen,</li></ul>
				Reflector, RFC2544, and SAT application when MU100011A-001
				or MU100011A-003 not installed in MU100011A (12416)
			>	[]
				including backslash (¥) or double quotation mark (") in SSID.
				Names after SSID registration are: (¥) becomes (¥¥), and (") becomes (¥") (12433)
				between NOS pattern at insertion of Not operational (NOS) alarm
				(12440)
				FC] Fixed bug causing unwanted conversion of Alarm NOS
				pattern to Remote Fault pattern at 16GFC interface (12440)

			<ul> <li>[FC] Fixed bug causing error in insertion pattern value at R_RDY error insertion (12440)</li> </ul>	
			<ul> <li>FC] Fixed bug preventing insertion of IDLE pattern between EOF</li> </ul>	=
			pattern and R RDY pattern when inserting error burst (12440)	
			[].	
0.44	0 5 0040		scenario with loop processing description (12469)	
9.11	Sep 5, 2019	•	Fixed bugs	
			<ul> <li>[ETH][MxH] Fixed bug causing abnormally large Latency</li> </ul>	
			measurement result when using MU100011A 10GbE or lower	
			interface Related applications are Ethernet BERT, MonGen,	
			RFC2544, SAT (Y.1564), and eCPRI/RoE BERT. In addition, whe	n
			the SAT (Y.1564) application Latency result is abnormal, the	
			measurement result is an unacceptable SAC violation. (12454,	
			12472)	
			<ul><li>[ETH][MxH] Fixed bug in MT1000A Ethernet BERT, Ethernet</li></ul>	
			MonGen, and eCPRI/RoE BERT causing resolution of Latency an	nd
			Jitter measurement results to not meet product specification (5 ns	s).
			(12470)	
9.10	Jun 18,	•	Key Added Features	
	2019		<ul> <li>[ETH] Added function to IEEE1588v2 screen to display Clock</li> </ul>	
			Class level delivered by network; in addition to Class level, added	b
			display of QL value following existing ITU-T conversion rule.	
			(12257)	
			[ETH] Added G8275.2 to IEEE1588v2 profile. (12238)	
			ETH] Added function for editing PTP message joint header	
			flagField and displaying decode results. Added screen for changin	ng
			master port flagField to IEEE1588v2 settings and screen for	
			displaying code result in the IEEE1588v2 monitor; additionally,	
			flagField value is correctly initiated following the Clock Class	
			setting. (11567, 12319)	
			<ul> <li>[ETH] Increased SyncTest maximum measurement time to 3 days</li> </ul>	s.
			Added function for auto-saving all measurement results to CSV fil	
			for measurement times exceeding 12 hours that cannot be saved	
			to display memory. (12239)	-
			<ul> <li>[ETH] For Y.1564, increased decimal points from 0 to 4 places for</li> </ul>	r
			Availability threshold value and increased measurement result	•
			decimal points from 0 to 5 places to support 5G network	
			measurements requiring 99.9999% availability. (12249)	

r		
	<ul> <li>[ETH] Added function in Statistics for switching units</li> </ul>	s between byte
	and bit display. (12105)	
	ETH] Added function for outputting Statistics in CS	√ format to
	simplify analysis of long-term measurement results	with external
	software, such as Excel. (11989)	
	[MxH] Added 12G (Opt-9) and 25G (Opt-10) to CPF	N/OBSAI BERT
	line rates. (12237)	
	RemoteGUI] Added function for placing remote MT	1000A into
	standby mode using MX100001A software. (12235)	
	Fixed bugs	
	ETH] At 25G and higher rates when Frame size of 6	63 bytes or less
	selected, fixed bug causing displayed Tx Frame val	ue to be twice
	actual value. (12200)	
	[ETH] Fixed bug causing the display to freeze when	displaying a
	long-term graph measurement in SyncTest. (11176,	11314)
	[ETH] Fixed bug causing inability for gateway to be	correctly set
	when using a DHCP server over IPv4 at v9.09 Ethe	-
	applications. (12248)	
	<ul> <li>[ETH] Fixed bug causing inability to set correct max</li> </ul>	imum IFG
	value for the Line Load setting (12175)	
	<ul> <li>[ETH] Fixed bug causing ARP resolution to not work</li> </ul>	( across
	different VLANs. (12055)	
	<ul> <li>[ETH] Fixed bug preventing the correct output of rar</li> </ul>	ndom address
	ranges compared to the variable address settings fi	
	stream settings. (10905, 11117)	
	<ul> <li>[ETH] Changed behaviour when loading a saved file</li> </ul>	e with a source
	MAC address set to its own unit factory default, will	
	the unit to the factory default source MAC address t	-
	loaded on. (11112)	ine ne ie senig
	<ul> <li>[ETH] Fixed a bug, some settings (announce interval)</li> </ul>	al sync interval
	and minimum delay request interval) did not properl	-
	loading file setup or result when using ITU-T G.827	
	2059 profiles in the IEEE1588v2 settings.(12322)	
		1000A into
	1 5	
	standby mode using MX100001A software. (12235)	
	[ETH][MxH] SyncTest and Pass Through now start v requirement of collecting the two parts (12226)	
	requirement of selecting the two ports. (12236)	
	[ETH][MxH] Fixed bug causing inability to set FEC (	JN/UFF When

		using SFP28, in Ethernet and eCPRI/RoE BERT applications for
		v8.01 and later. (12258)
		<ul> <li>[Framework] Fixed bug causing inability to display option name</li> </ul>
		correctly in System Information for v9.09 MU100010A and
		MU110010A. (12308)
		<ul><li>[Framework] Fixed bug preventing file sharing with Windows10</li></ul>
		version 1709 and later. (12186)
		[OTDR] Fixed bug preventing update of subsequent power meter
		measurement values when cancelling the execution of
		power-meter zero offset. (12240)
9.09	Feb 13,	Key Added Features
	2019	"[ETH] Added following functions to each BER, MonGen, and
		SyncTest application. (11970, 12182)
		1. IGMP/MLD Join/Leave function
		2. Support for SMTPE 2059 IEEE1588v2 profile"
		[ETH] Added Burst Length/Gap input function in the Burst settings
		of both MonGen and ChannelStat application (12094)
		[ETH][MxH] Added IPv6 Gateway function for Ethernet and MxH
		categories. (11238)
		[MxH] Added option to eCPRI/RoE application to use 25G eCPRI
		on two ports simultaneously. (11969)"
		<ul> <li>[Framework] Added function to measurement results statistical</li> </ul>
		display to automatically display k/M/G value matching
		measurement value. (12066)
		<ul> <li>[Framework] Added progress bar during application startup.</li> </ul>
		(12065)
		[OTDR] Added function for outputting OTDR measurement results
		in JSON format. (12168)
		Fixed bugs
		[ETH] Fixed bug when a very low frequency of errored frames
		occured, causing rounding of normal frame measurement result to
		nearest whole number and non-display of decimal points
		(99.9999% becomes 100.00%). (12056)
		<ul> <li>[ETH] Fixed bug preventing display of all measurement results</li> </ul>
		when Latency result is 1 ms or more. (12167)
		[ETH] Fixed bug at SyncTest application causing green status
		display even with no input signal to Ext10M, Ref1pps and dut1pps.
		(11819, 9412,10860)
		· · · · · · · · · · · · · · · · · · ·

	т т		
			[ETH][OTN][SDH][CPRI][FC] Fixed bug causing save failure when
			saving Event log in .csv format after measurement. (11264)
			[ETH][OTN][NoFrame] Fixed bug preventing writing of values to
			page 2 and 3 of QSFP28 internal register when using J1756A
			CFP2-QSFP28 Adapter with MU110012A/MU110013A. (11988)
			[Remote][ETH] Fixed bug preventing capture of Rx Total good
			bytes using SCPI command (IFETCH). (12115)
			[Remote][ETH] Fixed bug causing save error when space
			character present after file name when saving frame capture using
			SCPI command. (12024)
			[VIP] Fixed bug do not causing G0382A to become active when
			using VIP application when G0382A entered automatic standby
			status. (12173)
			➢ [ETH] Fixed bug in v9.07 and v9.08 when SFP28 configuration file
			loaded, forcing IEEE1588v2 and SyncE to OFF and preventing
			change to ON. (12054)
9.08	Nov 21,	•	Fixed bugs
	2018		[SEEK] Fixed bug causing inability to change frequency variation
			setting from 0 ppm when measuring BER at xCVRQuickCheck_02
			scenario. (11995)
9.07	Sep 19,	•	Key Added Features
	2018		ETH] Added function to RFC2544 application allowing multiple
			setting of any frame size. (11829)
			[ETH] Added ON/OFF function for [Remote Fault] display at
			negotiation status of BERT/Mon/Gen application. (11861)
			[MxH] Added function to CPRI/OBSAI BERT application for
			generating/analyzing OBSAI frame. (11873)
			Framework] Added function to show who are using the port on the
			resource monitor screen of MT1000A/MT1100A. (11886)
			<ul> <li>[Framework] Added Finnish to GUI languages. (10993)</li> </ul>
		•	Fixed bugs
			Framework] Fixed bug preventing backup of application settings
			when MT1000A/MT1100A WLAN network connection keeps fail for
			long time. (11313)
			ETH] Fixed bug in the IPv4 checksum header when sending
			multiple streams including VLAN/IPv4 or MPLS/IPv4 using
			Mon/Gen application. (11855)
			➢ [ETH] fixed bug displaying a Frame capture buffer size of 513 kB

			and larger which isn't possible using v9.05/v9.06 25GbE interface (11950)	Ð.
			[MxH] Changed name of "CPRI/OBSAI P.Thru" application to	
			"CPRI P.Thru". (11976)	
			[Remote][OTDR] Fixed bug causing main unit to restart when	
			sending :OTDR:TRAC:LOAD:TEXT? command to capture	
			waveform data. (11951)	
9.06	Jul 19, 2018	•	Key Added Features	
			<ul> <li>[ETH] Added function for synchronizing time of two MT1000A uni using 1PPS and 10MHz for Latency when MU100011A installed. (11791)</li> </ul>	
			<ul> <li>[ETH] Improved PTP measurement results Accuracy and Latency</li> </ul>	y
			results Accuracy and Resolution. (10877, 11790)	
			<ul><li>[ETH] Added support for RFC6349 over IPv6. (10879)</li></ul>	
			<ul><li>[ETH] Added second (sec) units display to vertical axis in the</li></ul>	
			Latency/Jitter sections of the BERT and RFC2544 applications.	
			(10789, 10824)	
			<ul> <li>[Framework] Increased maximum number of alphanumeric</li> </ul>	
			characters from 32 to 64 for PSK (WPA and WPA2) WLAN	
			connection authentication. (11526)	
			<ul> <li>[FC] Added Block Error detection and insertion functions for</li> </ul>	
			10GFC and 16GFC in the BERT application. (11516)	
		•	Fixed bugs	
			<ul> <li>[ETH] Fixed bug in BERT and Mon/Gen applications when readir</li> </ul>	ng
			CFG file causing TCP protocol "Listen mode" setting to always loa as "Off". (11214)	ad
			> [ETH] Fixed bug in BERT application from v9.00 when using 100	G
			interface and inserting FEC symbol error causing application to	
			crash when selecting either "Burst/sec" or "Burst/10 sec" as	
			Insertion setting. (11344)	
			<ul> <li>[ETH] Fixed bug in Mon/Gen application preventing the TCP</li> </ul>	
			protocol from establishing TCP sessions on streams 9 to 16.	
			(11221)	
			> [ETH] Fixed bug in Sync application preventing display of Port2	
			TE1 and Terr graph results even when loading saved	
			measurement-results file. (11655)	
			<ul> <li>[Framework] Fixed bug in File Browser from v9.02 preventing the</li> </ul>	;
			file saved time from being displayed. (11042)	
		I		

		<ul> <li>[Framework] Fixed bug when editing a WLAN network that has already saved the PS Key value and is described as "[key is configured]"", if you save this value the PSK value is overwritten.</li> <li>(11267)</li> <li>[OTN] Fixed bug in BERT application causing an error after selecting; RTD measurement mode, quitting application, restarting application, and changing measurement mode to BERT. (11495)</li> <li>[OTDR] Fixed bug in Multi-Pulse Measurement preventing correct calculation of dB/km and Cum.Loss (dB) values. (11836)</li> <li>[Eth] Fixed bug sometimes causing lower measured throughput result than actual rate using RFC6349 Application. (10883)</li> </ul>
9.05	May 8, 2018	ey Added Features [ETH] Added 25 GbE interface to SyncTest application. (10880) [OTN] Added OTU2e-FC1200 mapping for MU100011A module. (10803) [MxH] Added eCPRI/RoE BERT application. (10878) [Framework] Added Korean language to Transport functions. (10837) xed bugs [ETH] Resolved issue returning an incorrect ARP Reply with below IP and MAC configuration for MU100011A with v9.00 or later software. (11069) SrcMAC 00-00-00-00-00 SrcIP 0.0.0 [ETH] Resolved issue displaying incorrect latency measurement when using 2 ports in RFC 2544, MonGen, BERT applications in v9.02/9.03/9.04 if not changing interface settings immediately after application start-up. (10963) [ETH] Resolved issue causing reversed positive / negative 1 PPS TE measurement results at SyncTest application v5.00 and later. (10907) [ETH] Resolved issue in PacketTE measurement graph not displayed when PTP StepMode setting is different between port 1 and port 2 in SyncTest application after v5.00. (10906) [ETH] Resolved issue causing the Frame Count threshold to Fail incorrectly within the Ethernet BER application from v7.02. (9487) [ETH][CTN] Resolved issue causing incorrect control of QSFP28

		<ul> <li>optical modules with Power Class 5, 6, and 7 from v9.00. (10903)</li> <li>[ETH][OTN] Fixed bug when QSFP+/QSFP28 modules selected causing incorrect display of all Tx powers in dBm units instead of mA units; now either mA or dBm units displayed according to optical module specifications. (10994)</li> <li>[MxH] Resolved issue causing GUI display to not follow the instrument change to CPRI when OBSAI setting has Delay or APS measurement is enabled. (11080)</li> <li>[SDHPDH] Resolved issue causing the unit to restart when creating a report from an E1 measurement in the SDH/SONET application from v3.0. (10962)</li> <li>[Remote] Resolved issue preventing return of the correct status information when using CFP, CFP2, CFP4, or QSFP28 optical modules, when querying module status using SCPI commands. (10893)</li> </ul>
9.04	Apr 4, 2018	<ul> <li>Fixed bugs</li> <li>[Framework] For MU100011A serial numbers 6261738768 to 6261801145, added function for automatically correcting default MAC address of measurement port from "00-00-00-xx-xx-xx" set a result of bug to "00-00-91-xx-xx-xx". Upgrade customers using instruments affected by this problem as soon as possible to this new version. (10966)</li> <li>[Framework] Fixed bug when displaying history log (list of previous input characters) at character input dialog causing history log to overlay numeric input buttons and prevent ability to press buttons. (11087)</li> <li>[ETH] Fixed bug causing sending of ARP Request using destination IP address instead of Gateway address when executing ARP with Gateway set to ON with Ethernet application v9.03 and later. (11209)</li> </ul>
9.03	Feb 22, 2018	<ul> <li>Improvement         [OTDR][FTTA][Construction] Improved the performance of the connection check function when using a short patch code (3m or less). (10980)     </li> </ul>
9.02	Dec 6, 2017	<ul> <li>Fixed bugs</li> <li>[ETH] Fixed a bug of RFC6349 causing sometimes worse throughput than actual DUT's performance. This bug only happens MU100010A and MU110010A in v9.01. (10888)</li> </ul>

9.01	Nov 30,	Ke	y Added Features
	2017	۶	[ETH] Added function for selecting MDI/MDI-X/Auto at
			10M/100M/1000M Ethernet electrical interface. (10810)
		$\triangleright$	[ETH] Added In-band Remote Function including Discovery
			application to MT1100A. (10811)
		$\triangleright$	[NOFRAME] Added 4LaneBER measurement function to
			MU100011A. (10809)
		۶	[FTTA] Added function for loading CFG file to FTTA application.
			(10762)
		$\triangleright$	[Construction] Added function to Construction application to reflect
			cursor position set at first wavelength at waveforms for other
			wavelengths when measuring several wavelengths. (10552)
		$\triangleright$	[Framework] Added function for avoiding problem of delayed main
			unit start-up resulting from saving of multiple files in internal
			storage of measuring instrument. (10790)
			[Remote][VIP] Added function for automatically appending .vipi
			extension even when specifying output file name without extension
			description when using [Save with File Name] at MMEM:STOR
		<u> </u>	remote command. (10682)
	•		
			[ETH] Fixed bug causing incomplete display of measured result
			decimal point values when measuring Latency of multiple ports
		$\triangleright$	simultaneously at either BERT or MonGen application. (10789) [ETH] Fixed bug causing settings change according to
			[ETH] Fixed bug causing settings change according to dependence of Gateway On/Off setting on ARP On/Off setting.
			(10791)
			[ETH] Fixed bug causing inability to select IPv6 Frame setting
		-	when selecting VLAN ID 2 at Ping application. (10737)
		$\triangleright$	[ETH][OTN][SDH][FC][CPRI] Fixed bug causing output of space
		ŕ	separator at every three numerals when numeric data such as bit
			count, etc., at report creation and output in .csv format. (10728)
		≻	[NOFRAME] Fixed bug sometimes causing error generation at
			20LaneBER measurement using QSFP28 module with
			MU100011A module. (10797)
		$\triangleright$	[OTN] Fixed bug causing incorrect 0 dBm display for tunable
			wavelength SFP receive power. (10799)
		$\triangleright$	[VIP] Fixed bug causing display of [Analysis Failure] dialog instead
			of [Failed Test] dialog when saving failed evaluation result data.

become 0 when loading SOR file captured by Anritsu OTDF (MT908x, MT9090, etc.). (10449)         > [OTDR][FTTA] Fixed bug causing test results to not be reflected when displaying Test Status screen at OTDR and FTT/ applications. (10320)         > [OTDR][FTTA] Fixed bug sometimes causing blank Setup screen List box when reading SOR captured by Anritsu OTDR (MT908x, MT9090, etc.) using "Load with setup". (10755)         > [OLTS] Fixed bug causing non-display of OLTS progress bar when Test Status screen displayed at OLTS application. (10767)         > [Remote][Standard OTDR] Fixed bug causing non-display of VFI function key when starting client with INST:STAR:GUI after starting OTDR application with SCPI. (10162)         > [Remote][Standard OTDR] Fixed bug preventing correct capture of dB/Km (fiber loss) when obtaining measurement results using OTDR:TRACe:LOAD:TEXT? with measurement conditions set to Automatic. (9409)         9.00       Sep 19, 2017       • Key Added Features         > Added CPRI RF Module MU100040B to measurement module product line. (10764)       • [ETH] Added FEC On/Off function to 25G Ethernet settings			(10772)
<ul> <li>&gt; [OTDR][FTTA] Fixed bug causing test results to not be reflected when displaying Test Status screen at OTDR and FTT/ applications. (10320)</li> <li>&gt; [OTDR][FTTA] Fixed bug sometimes causing blank Setup screen List box when reading SOR captured by Anritsu OTDR (MT908x MT9090, etc.) using "Load with setup". (10755)</li> <li>&gt; [OLTS] Fixed bug causing non-display of OLTS progress bar when Test Status screen displayed at OLTS application. (10767)</li> <li>&gt; [Remote][Standard OTDR] Fixed bug causing non-display of VFI function key when starting client with INST:STAR:GUI after starting OTDR application with SCPI. (10162)</li> <li>&gt; [Remote][Standard OTDR] Fixed bug preventing correct capture of dB/Km (fiber loss) when obtaining measurement results using OTDR:TRACe:LOAD:TEXT? with measurement conditions set to Automatic. (9409)</li> <li>9.00 Sep 19, 2017</li> <li>• Key Added Features</li> <li>&gt; Added CPRI RF Module MU100040B to measurement module product line. (10764)</li> <li>&gt; [ETH] Added FEC On/Off function to 25G Ethernet settings</li> </ul>			<ul> <li>[OTDR][Construction] Fixed bug causing Sequence Number to become 0 when loading SOR file captured by Anritsu OTDR</li> </ul>
<ul> <li>List box when reading SOR captured by Anritsu OTDR (MT908x MT9090, etc.) using "Load with setup". (10755)</li> <li>[OLTS] Fixed bug causing non-display of OLTS progress bar when Test Status screen displayed at OLTS application. (10767)</li> <li>[Remote][Standard OTDR] Fixed bug causing non-display of VFI function key when starting client with INST:STAR:GUI after starting OTDR application with SCPI. (10162)</li> <li>[Remote][Standard OTDR] Fixed bug preventing correct capture of dB/Km (fiber loss) when obtaining measurement results using OTDR:TRACe:LOAD:TEXT? with measurement conditions set to Automatic. (9409)</li> <li>9.00 Sep 19, 2017</li> <li>Key Added Features</li> <li>Added CPRI RF Module MU100040B to measurement module product line. (10764)</li> <li>[ETH] Added FEC On/Off function to 25G Ethernet settings</li> </ul>			<ul> <li>[OTDR][FTTA] Fixed bug causing test results to not be reflected when displaying Test Status screen at OTDR and FTTA</li> </ul>
9.00       Sep 19,         9.00       Sep 19,         2017       Key Added Features         9.00       Sep 19,         9.01       Key Added Features         9.02       Sep 19,         9.03       Sep 19,         9.04       Key Added Features         9.05       Sep 19,         9.06       Key Added CPRI RF Module MU100040B to measurement module product line. (10764)         9.       [ETH] Added FEC On/Off function to 25G Ethernet settings			List box when reading SOR captured by Anritsu OTDR (MT908x,
9.00       Sep 19,         9.00       Sep 19,         2017       Key Added Features         2017       ETH] Added FEC On/Off function to 25G Ethernet settings			
dB/Km (fiber loss) when obtaining measurement results using OTDR:TRACe:LOAD:TEXT? with measurement conditions set to Automatic. (9409)         9.00       Sep 19, 2017         • Key Added Features Added CPRI RF Module MU100040B to measurement module product line. (10764)         • [ETH] Added FEC On/Off function to 25G Ethernet settings			function key when starting client with INST:STAR:GUI after starting
OTDR:TRACe:LOAD:TEXT? with measurement conditions set to Automatic. (9409)         9.00       Sep 19, 2017         2017       • Key Added Features         > Added CPRI RF Module MU100040B to measurement module product line. (10764)         > [ETH] Added FEC On/Off function to 25G Ethernet settings			[
2017 > Added CPRI RF Module MU100040B to measurement module product line. (10764) > [ETH] Added FEC On/Off function to 25G Ethernet settings			OTDR:TRACe:LOAD:TEXT? with measurement conditions set to
product line. (10764) <ul> <li>[ETH] Added FEC On/Off function to 25G Ethernet settings</li> </ul>	9.00	Sep 19, ●	Key Added Features
<ul> <li>[ETH] Added FEC On/Off function to 25G Ethernet settings</li> </ul>		2017	> Added CPRI RF Module MU100040B to measurement module
			product line. (10764)
(10200)			<ul> <li>[ETH] Added FEC On/Off function to 25G Ethernet settings.</li> <li>(10238)</li> </ul>
<ul><li>[ETH][OTN] Added CFP2-QSFP28 Adaptor J1756A (10765)</li></ul>			[ETH][OTN] Added CFP2-QSFP28 Adaptor J1756A (10765)
[ETH][OTN][SDH][CPRI][FC] Added I2C analysis function fo SFP/SFP+/SFP28 Module. (10741)			
Fixed bugs		•	Fixed bugs
<ul> <li>[OTN][SDH] Fixed bug at APS test preventing APS measurement</li> <li>for up to 2 seconds after measurement start. (8937)</li> </ul>			[
			Summary Results at ARP failure at Y.1564 and Ping applications
8.02 Aug 31, • Key Added Features		Aug 31, •	Key Added Features
2017 > [ETH][SDH] Added Line Rate Frequency deviation (Max., Min.	8.02	2017	> [ETH][SDH] Added Line Rate Frequency deviation (Max., Min.,
Avg.) to the measurement items. (10715,10714)			Avg.) to the measurement items. (10715,10714)
<ul> <li>[SDH] Added MS-AIS/AIS-L alarms into the Insert Alarm function during Through Mode operation of the BERT application. (10657)</li> </ul>		1	

			d No Frame application supporting the following J100011A Module. (10443)
			ER for 40G QSFP+.
			R for 100G CFP4/QSFP28.
			op function and character divider command for
		the MX100003A. (	
		Fixed bugs	
		0	preventing incorrect measurement of one-way
		delay measureme	the Y.1564 application with V8.00/V.801.
		<b>x y</b>	reventing normal LOS Alarm information on the
		Status screen v	when 25GbE is selected while using the
		MU100011A modu	
			preventing the selection of IPv6 within the Ping
		application. (1072)	,
			preventing a FAIL test status when ARP failure application. (9798)
		•	bug causing the display of incorrect Signal
			e Status screen at 40G/100G line rates. (10736)
			allowing the selection of LOS as an APS
			ger condition when QSFP+/QSFP28 interface is
		•	APS application. (10677)
			ed bug preventing normal 20 Lane BER
			the CFP2 interface while using the No Frame
		application with the	e MU110013A module. (10676)
8.01	Jun 29,	Key Added Features	
	2017	> [ETH] Added fund	tion for stopping stream sending when Pause
		Frame received at	100GbE/40GbE/25GbE. (9968)
		➢ [ETH][OTN][SDH]]	FC][CPRI] Added function to support the
		Tunable SFP/SFP	+. (9473)
		➢ [ETH][OTN][SDH]]	FC][CPRI] When the threshold value is set, the
		color of the test rea	sult value is reflected in the PDF report. (10173)
		> [ETH] At SyncTes	st application, changed so that PacketTE and
		OWD graph mag	nified display performed within significant digit
		range. (10504)	
		> [OTDR] [FTTA] I	n Fiber Visualizer mode, added function for

	Γ		
			displaying help to resolve issues when selecting Fail event icon.
		≻	[SEEK] Added following functions at scenario execution function.
			(10484)
			- Function for editing header information used at report output.
			- Function for outputting results after scenario execution directly to
			USB memory.
		$\succ$	[VIP] Added exposure-compensation function to G0382. (10354)
		• Fixe	ed bugs
		$\succ$	[ETH] With 100GbE FEC enabled, fixed bug causing PCS Skew
			injection to be enabled when should not be enabled. (10451)
		$\succ$	[ETH] At SyncTest application, fixed bug causing N/A display for
			PacketTE measurement results. (10447)
		⊳	[ETH] At Y1564 application when executing End-to-End
			measurement, fixed bug causing main unit to restart when frame
			received from port other than master port set at slave port. (9622)
		$\checkmark$	[ETH][OTN][SDH] At MU110013A, fixed bug causing main unit to
			restart when I2C analysis function executed during measurement.
			(10098)
		$\triangleright$	[OTN] At QSFP28 interface, fixed bug preventing correct rate-
			select setting for device. (10313)
		$\triangleright$	[RemoteGUI] At MX100001A, fixed bug causing large font display
			on screen. (9970)
		$\triangleright$	[OTDR] [FTTA] [Construction] Fixed bug preventing input of
			comma (,) period (.), forward slash (/), yen symbol (?), and
			question mark (?) characters at header input screen. (10427)
		~	[OTDR] [FTTA] Fixed bug causing initialization of calibration period
			at software update. (10512)
8.00	May 23,	● Kev	/ Added Features
	2017		[New HW] Added 100G Multirate Module MU100011A to
			measurement module product line.
		$\succ$	[Framework] Increased battery charge upper temperature limit by
			3°C. (9532)
		$\succ$	[ETH] Added following functions to Sync Test Application (10154) :
			- Terr (min), Terr (max), max Terr  measurement results
			- 1PPS Mode for measuring packet base TE by the external 1PPS
			- Function to reflect the UTC offset valve that the Grand Master
			announces in broadcast message, when the network master
			emulates PTP slave.

		<ul> <li>[CPRI] Separated CPRI and OBSAI GUIs for easier-to-understand operation (9519)</li> </ul>
		<ul> <li>[OTDR] Added real-time Check function to Construction application</li> </ul>
		(10244)
		<ul> <li>[SEEK] Changed response time-out default value after sending remote command to 30 s (10374)</li> </ul>
		• Fixed bugs
		<ul> <li>[ETH] Fixed bug causing main unit to restart when attempting to</li> </ul>
		display IEEE1588v2 Log when external logging enabled for
		IEEE1588v2 function.(10107)
		<ul> <li>[ETH] At stream setting, fixed bug preventing obtaining of source</li> </ul>
		IPv4 address from DHCP server.(10226)
		➢ [ETH] Fixed bug sometimes causing unstable results when
		measuring cables shorter than 10 m with cable test
		application.(9477)
		➢ [FC] Fixed bug sometimes causing Frame loss when using
		reflector application.(10214)
		<ul> <li>[VIP] Added SC/APC chip to selection list at G0382A usage screen</li> </ul>
		because not included in list.(10134)
7.05	Mar 23,	Key Added Features
	2017	<ul> <li>[Framework] Added Quick Matrix to File input screen.</li> </ul>
		<ul> <li>[Framework] Added support for saving/loading file names with</li> </ul>
1		period (.) in file name. (9557)
		<ul><li>&gt; [ETH] Added In-Band control function and Discovery application.</li></ul>
		<ul> <li>[ETH] Added In-Band control function and Discovery application.</li> </ul>
		<ul> <li>[ETH] Added In-Band control function and Discovery application.</li> <li>(9526)</li> </ul>
		<ul> <li>[ETH] Added In-Band control function and Discovery application. (9526)</li> <li>[ETH] In RFC2544 application, upgraded to display a total of up to</li> </ul>
		<ul> <li>[ETH] Added In-Band control function and Discovery application. (9526)</li> <li>[ETH] In RFC2544 application, upgraded to display a total of up to 500 steps for measurement results, previously only displayed up to</li> </ul>
		<ul> <li>[ETH] Added In-Band control function and Discovery application. (9526)</li> <li>[ETH] In RFC2544 application, upgraded to display a total of up to 500 steps for measurement results, previously only displayed up to 100 steps for each measurement. (8995)</li> </ul>
		<ul> <li>[ETH] Added In-Band control function and Discovery application. (9526)</li> <li>[ETH] In RFC2544 application, upgraded to display a total of up to 500 steps for measurement results, previously only displayed up to 100 steps for each measurement. (8995)</li> <li>[ETH] Added support to RFC254 application Burst test, allowing</li> </ul>
		<ul> <li>[ETH] Added In-Band control function and Discovery application. (9526)</li> <li>[ETH] In RFC2544 application, upgraded to display a total of up to 500 steps for measurement results, previously only displayed up to 100 steps for each measurement. (8995)</li> <li>[ETH] Added support to RFC254 application Burst test, allowing configuration and displaying results in Burst seconds. (9385)</li> </ul>
		<ul> <li>[ETH] Added In-Band control function and Discovery application. (9526)</li> <li>[ETH] In RFC2544 application, upgraded to display a total of up to 500 steps for measurement results, previously only displayed up to 100 steps for each measurement. (8995)</li> <li>[ETH] Added support to RFC254 application Burst test, allowing configuration and displaying results in Burst seconds. (9385)</li> <li>[ETH] Added support for Category 6/6a to Cable Test application.</li> </ul>
		<ul> <li>[ETH] Added In-Band control function and Discovery application. (9526)</li> <li>[ETH] In RFC2544 application, upgraded to display a total of up to 500 steps for measurement results, previously only displayed up to 100 steps for each measurement. (8995)</li> <li>[ETH] Added support to RFC254 application Burst test, allowing configuration and displaying results in Burst seconds. (9385)</li> <li>[ETH] Added support for Category 6/6a to Cable Test application. (9474)</li> </ul>
		<ul> <li>[ETH] Added In-Band control function and Discovery application. (9526)</li> <li>[ETH] In RFC2544 application, upgraded to display a total of up to 500 steps for measurement results, previously only displayed up to 100 steps for each measurement. (8995)</li> <li>[ETH] Added support to RFC254 application Burst test, allowing configuration and displaying results in Burst seconds. (9385)</li> <li>[ETH] Added support for Category 6/6a to Cable Test application. (9474)</li> <li>[ETH] [OTN] [SDH] [FC] [CPRI] On the SFP module information</li> </ul>
		<ul> <li>[ETH] Added In-Band control function and Discovery application. (9526)</li> <li>[ETH] In RFC2544 application, upgraded to display a total of up to 500 steps for measurement results, previously only displayed up to 100 steps for each measurement. (8995)</li> <li>[ETH] Added support to RFC254 application Burst test, allowing configuration and displaying results in Burst seconds. (9385)</li> <li>[ETH] Added support for Category 6/6a to Cable Test application. (9474)</li> <li>[ETH] [OTN] [SDH] [FC] [CPRI] On the SFP module information display screen, change the wavelength display when mounting Bi -</li> </ul>
		<ul> <li>[ETH] Added In-Band control function and Discovery application. (9526)</li> <li>[ETH] In RFC2544 application, upgraded to display a total of up to 500 steps for measurement results, previously only displayed up to 100 steps for each measurement. (8995)</li> <li>[ETH] Added support to RFC254 application Burst test, allowing configuration and displaying results in Burst seconds. (9385)</li> <li>[ETH] Added support for Category 6/6a to Cable Test application. (9474)</li> <li>[ETH] [OTN] [SDH] [FC] [CPRI] On the SFP module information display screen, change the wavelength display when mounting Bi - Direction SFP to "Tx wavelength (Nominal)". (9520)</li> </ul>

function. (8386)
<ul> <li>[OTDR] Construction application, changed to output to only be in</li> </ul>
SOR format files. (9560)
<ul> <li>[Remote][ETH][OTN][SDH] Added transceiver control remote</li> </ul>
commands support. (9530)
<ul> <li>[SEEK] Added the following functions to MX100003A .(9752)</li> </ul>
- VIP application. - Save file function by using a Variable.
<ul> <li>Quick Matrix function when specifying file name.</li> <li>Custom Application to Command Selection.</li> </ul>
- Custom Application to Command Selection.
<ul><li>string.</li><li>[VIP] Added support for G0382A auto-focus VIP.</li></ul>
<ul> <li>[VIP] Added support for G0382A auto-rocus VIP.</li> <li>[VIP] Added following functions to VIP application.</li> </ul>
- Auto-measurement function (auto-focus, auto-capture).
- Auto-recognition of probe connected to main frame.
(supports G0382A, and G0306A/B; G0382A only supports
auto-focus).
<ul> <li>Fixed bugs</li> </ul>
<ul> <li>Framework] Fixed bug causing MT1000A to freeze when</li> </ul>
repetitive insertion/removal of G0306A/G0306B. (9850)
<ul> <li>[ETH] Fixed bug in MonGen application causing restart when</li> </ul>
terminating application while Threshold Summary screen
displayed. (9602)
<ul> <li>[FC] Fixed bug in Reflector application causing Frame Loss at</li> </ul>
Frame size of $8n + 4$ (n = 8267). (9231)
<ul> <li>[OTN][SDH] Fixed bug in APS application causing switching time</li> </ul>
to result in larger value, when set to a bit rate of 40 Gbps or more
and the trigger setting is pattern error. (9753)
<ul> <li>[OTDR] Fixed bug preventing editing of user-registered macro at</li> </ul>
Smart File Name. (9559)
[OTDR] Changed summary from Open to FAIL when far end not
detected. (9691)
[Remote][ETH] Fixed bug causing main frame to restart when
performing Through and Frameloss measurement of RFC2544
application via MX100001A. (9688)
<ul> <li>[Remote][ETH] Fixed a bug causing the test application to stop</li> </ul>
when using the stream copy function of Y1564, MonGen and
5 ······ ···· ···· ···· ····· ···· ···

		<ul> <li>ChannelStat application via MX100001A, on the main unit it caused a restart. (9797)</li> <li>&gt; [Remote][ETH] Fixed bug allowing an unusable rate to be set via SCPI control. (9601)</li> </ul>
7.04	Feb 20,	• Fixed bugs
	2017	<ul> <li>[Framework] Fixed bug sometimes causing instrument reboot when performing analysis using G0306A/B on VIP application. (9627)</li> </ul>
7.03	Jan 5, 2017	<ul> <li>Key Added Features</li> <li>[ETH] Added support for two stacked VLAN to the Ping application. (9472)</li> <li>[Construction] Added setting for File Number Digit length</li> <li>[FTTA] Added Manual measurement ability</li> <li>[OLTS] Added Ways Code mode for outs measurement of multiple</li> </ul>
		<ul> <li>[OLTS] Added Wave Code mode for auto measurement of multiple wavelengths.</li> <li>[OTDR][OLTS][FTTA][Construction] Added support for German language in Optical fiber test applications.</li> <li>[NoFrame] Added ability to save measurement results as Report</li> </ul>
		<ul> <li>file to NoFrame application</li> <li>[OTDR] Added support for PDF report generating for Bi-Directional analysis result.</li> <li>[OTDR] Added settings on Preference for Realtime measurement.</li> </ul>
		<ul> <li>Fixed bugs</li> <li>[ETH] Fixed bug incorrectly enabling/disabling FEC switching during 100G Ethernet measurement with MU110013A (9489)</li> </ul>
		<ul> <li>[ETH] Fixed bug sometimes preventing correct sending of received packet during instrument response to ARP/PING with Ethernet Reflector (6965)</li> </ul>
		<ul> <li>[ETH] Fixed bug, causing measurement screen to freeze sometimes during PTP communications when PTP log function is enabled (9424)</li> </ul>
		<ul> <li>[ETH][OTN] Fixed bug causing lengthened time until event log results displayed on screen (9370)</li> </ul>
		<ul> <li>[Remote][OTN][SDH] Fixed bug sometimes causing option error when setting RTD application Measurement Period using SCPI command (9469)</li> </ul>
		<ul> <li>[OTDR] Fixed bug when loading zip format waveform file at Overlay condition causing screen top to display enabled (ON) even</li> </ul>

				when Di Dimetional anti da
				when Bi-Directional setting changed automatically from enabled to
				disabled. (9255)
				[Remote] Fixed bug preventing SCPI commands of MDIO control
				to work in applications except for NoFrame.(9493)
				[Remote] Fixed bug sometimes preventing correct screen
				enable/disable control when using SCPI remote control.(9481)
7.02	Oct	28,	•	Key Added Features
	2016			[ETH] Added Rate display for FEC counter (9401)
				[ETH] Added I2C analysis function for QSFP28 module (9400)
				[ETH] Changed initial graph display of 1PPS time error test from
				Deviation to Phase Error (9313)
				[GPS][MU100090A] Added function for displaying elapsed time
				after lock to GPS (9068)
				[NoFrame] Added function for setting different PRBS pattern at
				each lane for 4Lane BER measurement function (9402)
				<ul> <li>[OTN] Added OTN test using QSFP28 module (9255)</li> </ul>
				[Remote][SEEK] Added command copy and paste functions for
				MX100003A (9336)
				➢ [Remote][SEEK] Add support for OTDR application at scenario
				creation using MX100003A (9454)
				<ul> <li>[SDH] Added AnyError to APS application trigger (9304)</li> </ul>
				➢ [SDH] Added M0, M1, and Z2 byte setting and capture display for
				OH Preset, and OH Capture function (9305)
			•	Fixed bugs
				▷ [ETH] Corrected bug in Frame Capture function ≤10G causing a
				packet whose timestamp data to be zero (9249)
				[ETH] Corrected bug preventing reverse colors at OWD threshold
				value evaluation in SyncTest application summary screen (9323)
				[ETH][OTN] Fixed bug at 40G/100G operation causing initialization
				of inserted lane when changing Skew insertion lane type (8839)
				[ETH][OTN] Fixed bug in MU110012A preventing establishment of
				Link when restarting application (8961)
				[OTN] Fixed bug causing simultaneous SM-BIP8 insertion when
				inserting AIS/OCI/LCK when operating at 40G/100G (9404)
				[RemoteGUI] Fixed bug sometimes causing display of warning
				message when quitting MX100001A (7222)
				[Remote][ETH] Fixed bug sometimes preventing output of correct
				measurement results when measuring Latency between Port1 and
				medeal offent results when medoding Editing between Forth and

				Port2 using one measuring instrument under SCPI control (9389)
7.01	Oct	11,	•	Fixed bugs
	2016			> [OTDR] Fixed an issue that prevented some MU100020A and
				MU100021A OTDR modules from changing wavelength when
				used in a low-temperature environment.
				> [OTDR] Fixed a bug that caused an error massage when loading a
				configuration file(.cfg) created by MU100021A to MU100020A or
				MU100022A.(9298)
				> [OTDR] Fixed a bug that could prevent remote control of the OTDR
				modules when "Fail" was returned by connection check.(9287)
				> [OTDR] Fixed a bug that received remote control commands while
				running the Construction application.(9392)
				> [OTDR] Fixed a bug that caused an error when receiving the
				OTDR:TRACe:TEXT? Command with an argument(s).(9393)
7.00	Sep	14,	•	Key Added Features
	2016			► [New HW] Added New OTDR Module (MU100022A: 3wl.
				1310/1550/1625nm model).
				> [ETH] Separated [Profile] and [Measurement Settings] tabs
				included in [Stream] tab at BERT test into two separate tabs
				labelled [Stream/Profile] and [Stream/Measurement Settings] (9165)
				<ul> <li>[OTDR] Added Construction function.</li> </ul>
				<ul> <li>[OTDR] Added Bi directional mode.</li> </ul>
				<ul> <li>[New HW] Added CPRI RF Module.</li> </ul>
			•	Fixed bugs
				<ul> <li>[Framework] Supports simultaneous installation of three module</li> </ul>
				types.
				<ul> <li>[Framework] Fixed bug in GPS utility preventing monitoring of GPS</li> </ul>
				signal receive status.(9172)
				> [Framework] Fixed bug in File Explorer causing main frame to
				restart when erasing file.(9099)
				> [Framework] Fixed bug preventing display by laser emitting
				indicator during measurement when Standard OTDR application
				started after VIP started.(9144)
				> [ETH] Fixed bug causing incorrect Frame Loss rate calculation
				when Total Repeat Steps set to ON at RFC2544 test.(6445)
				> [ETH] Fixed bug in Sync Test application preventing input of
				negative value as one-way Delay Threshold value.(9235)

			<ul> <li>[FC] Fixed bug causing incorrect display of Frame Loss Seconds and Pattern Loss Seconds even when Frame Loss Seconds set to Ignore at BERT application.(9173)</li> </ul>
			[OTDR] Fixed bug preventing execution of Standard OTDR
			Mission Control Power Meter Offset Zero function. (9217)
			[OTDR] Fixed bug causing main frame to restart when opening
			OTDR results file with Result File Browser when no OTDR module
			installed in main frame. (8836)
			[OTDR] Fixed bug in OTDR application preventing display of Fiber
			Visualizer screen waveform window when far end not found. (8806)
			<ul> <li>[OTDR] Fixed bug causing VFL to light for several seconds when</li> </ul>
			application quit and then restarted while VFL in ON status. (8968)
6.02	Aug 15,	•	Key Added Features
	2016		> [ETH] Changed specification for PRBS Sync Alarm and PRBS
			Pattern Error detection immediately after measurement start a
			BER measurement using Ethernet BER application Cross PRBS
			pattern (9130)
			> [OTN][SDH] Added measurement ON/OFF setting for following
			items: (9062)
			OTN: PLM
			SDH/SONE: HP=PLM, LP-PLM, Threshold Alarm
			<ul> <li>[SDH] Added Generic-AIS detection function (8555)</li> </ul>
		•	Fixed bugs
			[OTDR] Fixed bug in v6.00 causing display of "Include
			Performance Verification data" checkmark at report generation
			screen for results not actually displayed (9141)
6.01	Jul 14, 2016	•	Fixed bugs
			<ul> <li>[ETH][OTN] Fixed bug preventing correct CFP Module Transceived</li> </ul>
			setting and causing error when using V6.00 software with
			MU110011A CFP Interface (9116)
			> [FC] Fixed bug causing periodic Frame Loss when sending
			FC1200 Frame signal (7877)
			<ul> <li>[OTN] Fixed bug in V5.01 and later software causing doubling of</li> </ul>
			output clock frequency when selecting any one of OTU1f/2f/2e bi
			rates when using Tx Reference Clock Output with MU110010A
			(9084)
			[FTTA] Fixed bug causing disabled software key when moving to

					TRACE tab at TTA application after starting measurement (9138)	
6.00	Jun	23,	•	Key	Added Features	
	2016			۶	[New HW] Added MU110013A module and dedicated option	
				$\triangleright$	[Framework] Added autosave function for MT1100A CFP/CPF2	
					Interface transceiver settings (8568)	
				$\triangleright$	[ETH] Added following settings to Traffic Tx function	
					Burst Tx Setting	
					Frame Length Increment Tx	
					<ul> <li>Tx Rate Inter-Frame Gap Specification</li> </ul>	
					<ul> <li>Tx Rate Millisecond Unit Lamp Tx Setting</li> </ul>	
					<ul> <li>Tx Rate over 100% stream Setting</li> </ul>	
				$\triangleright$	[ETH] Added Cross PRBS pattern setting to Payload patterns for	
					BERT Application	
				$\triangleright$	[ETH] Added function for automatically allocating IPv6 Tx source	
					address using RS/RA function	
				۶	[OTDR] Added function for SCPI Remote command control to	
					OTDR application	
			•	Fixe	ed bugs	
				$\triangleright$	[Framework] Fixed bug causing restart of main frame when	
					inputting "e" character while file load/save dialog displayed (8873)	
				۶	[Framework] Fixed bug causing license error display when loading	
					settings file saved by MT1000A+MU100010A configuration at	
					MT1000A+MU1000xxA+MU100010A configuration and corrected	
					notification to comment on configuration difference (8633)	
				$\triangleright$	[ETH] Fixed bug causing non-stop sending at Pause Frame	
					receiving even when Auto Negotiation set to off for 10/100/1000M	
					electrical interface and "Respond to Pause Frame" set (8643)	
					$\triangleright$	[ETH] Fixed bug causing output of all selection items when
					outputting test results to CSV or XML file using Channel Statistics	
					application (8523)	
				۶	[ETH] Fixed bug causing inclusion of MPLS label value in Address	
					Filter Stream ID conditions using Mon/Gen application (8543)	
				۶	[ETH] Fixed bug causing Skew value to be displayed as ">0.000"	
					and incorrect measurement when selecting any Interval result at	
					"Relative Skew" results display of Result screen (8838)	
				$\triangleright$	[ETH] Fixed bug preventing correct display of result table service	
					details at measurement results for Y1564 (8527)	
				$\triangleright$	[FC] Fixed bug causing monitoring of Frame Loss seconds even	

					when "ignore Frame Loss seconds for BERT measurement results"
					set at BERT application (8730)
					[PTP] Fixed bug causing locking for only up to 4 hours in locking
					state using GPS utility. (8548)
					[OTDR] Fixed bug sometimes causing error in Reflectance
					analysis results when Auto Mode Test set to Advanced. (8933)
5.04	May	23,	•	Key	Added Features
5.03	2016				[Framework] Added the One-Button Test.
			•	Fixe	ed bugs
				$\triangleright$	[Framework] Fixed bug causing the unavailable access to USB
					stick after the specific procedure on V5.01.(8826)
				$\triangleright$	[Framework] Fixed bug causing main frame to restart when USB
					memory stick removed while File Manager focused on sub-folder in
					inserted USB memory.(8733)
				$\triangleright$	[ETH] Fixed bug causing the application crashes when outputting
					report of Ethernet RFC 2544 "End to end network test" results
					(8614)
5.01	Mar	25,	•	Key	Added Features
	2016			$\triangleright$	[Framework] Added to fiberscope with 60 degrees tip (7961)
				$\triangleright$	[OTDR] Expanded maximum settable pulse width for each
					distance range (8044)
				$\triangleright$	[OTDR] Changed dummy fiber (launch spool) display color to
					clearly show the start of the fiber under test. (8045)
				≻	[ETH] Added auto MAC address resolution function when a
					generating IPv6 Stream (NDP NS/NA) (7712)
				$\triangleright$	[ETH] Added possibility to ignore Frame loss seconds count in
					Ethernet BERT application (8057)
				$\triangleright$	[ETH] In SyncTest application, added calibration parameter for
					GPS antenna cable length. (8026)
				$\triangleright$	[ETH] In SyncTest application, added high-resolution frequency
					counter function (7945)
				$\triangleright$	[OTN] Added LOS insertion function (7366)
				$\triangleright$	[OTN] Added following APS trigger items (7775)
					OTU3x/4: FAS-OTL, LOF-OTL, OOF-OTL, LOR-OTL, OOR-OTL,
					OTU1x/2x/3x/4: OTU-AIS, OOM
				$\triangleright$	[SDH] Added possibility to disable the display of Pointer Movement
					measurements (7905)
			•	Fixe	ed bugs

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		$\succ$	[Framework] Fixed bug when disabling WLAN sometimes causing
			instrument to temporarily freeze (8272)
		$\succ$	[Framework] Fixed bug causing the NWM Flex with battery option
			MU11001A from fully shutting down.(8391)
		$\succ$	[Framework] Fixed the problem that MU100090A power On/Off
			status isn't stored properly occasionally. (8273)
		$\succ$	[OTDR] Fixed bug that "Restore Default" operation does not work
			after creating OTDR report.(8448)
		4	[ETH] Fixed bug for 10GbE sometimes causing transmitter to insert wrong IFG (7673)
		$\triangleright$	[ETH] Fixed bug in IEEE1588 function sometimes causing UDP
			checksum errors in transmitted PTP frames (7835)
		$\succ$	[OTN] Fixed problem when starting applications with +OTN option
			sometimes causing invalid option warning message (7683)
		$\succ$	[OTN][ETH] Fixed bug in Ethernet transmitter causing BER alarm
			when Ethernet mapped over OTN using GFP-F. (7519)(8075)
		$\checkmark$	[OTN][ETH] Fixed bug causing BER alarms for MPLS mapped
			over OTN using 46 byte frame size. (7844)
5.00	Feb 19,	• Ke	/ Added Features
	2016	≻	Added MU100090A Module
		>	[ETH] Added IEEE1588 Time error measurement function. (7892)
		$\triangleright$	[ETH] Added ITU-T8275.1 profile for IEEE1588 functions (7992)
		$\triangleright$	[CPRI] Added APS measurement function to BERT application
			(7099)
		$\triangleright$	[Framework] Expanded MDIO Analysis functions for
			CFP/CFP2/CFP4. (7976)
		$\succ$	[OTN] Added mappings for packet based client signal.
			(7975,7977,7978)
		$\succ$	[OTN][SDH] Added BERT/APS/RTD switch mode to BERT
			application (7980)
		$\succ$	[OTN][SDH] Added SDH Transparent mapping for SDH over OTN
			start (7981)
		$\checkmark$	[Remote] Added support for VNC control via HTTP with JAVA 1.8
			(6353)
		$\succ$	[Remote] Added support for simultaneous SCPI and Remote GUI
			control (7681)
		$\checkmark$	[Remote][ETH] Added remote command for specifying save

		destination for IEEE1588/SyncE Frame capture data (8198)
		- ETH:PORT1:PTP:FCAP:DIR
		[Remote][ETH] Added following remote commands for performing
		IEEE1588 ARP analysis and querying analysis results (8157)
		- ETHernet:PORT <pt>:PTP:MAC:ARP</pt>
		- ETHernet:PORT <pt>:PTP:MAC:ARP:RESult?</pt>
•	Fix	ed bugs
	►	[OTDR] Upgraded Event (fault point) detection (search) accuracy
		(8034)
	$\triangleright$	[Framework] Fixed problem causing Chinese and Japanese UTF-8
		encoded CSV reports to display garbage characters when opened
		in MS-Excel. (7750)
		Japanese: UTF-8 to Shift JIS
		Chinese: UTF-8 to GB2312
	$\triangleright$	[Framework] Fixed bug preventing re-acquisition of IP address
		when switching WLAN access point (7360)
	$\triangleright$	[Framework] Simplified Password dialog and fixed problem when
		initially enabling system password protection requiring user to
		know old (default) password. (7551)
	►	[Framework] Fixed bug causing sudden shutdown when starting
		with remaining battery charge of ≤6% (7662)
	►	[ETH] Fixed bug only permitting insertion of less than directed
		block errors when inserting errors while testing at Frame rates of
		>2000 bytes when testing at interface of10/40/100 Gbps (7020)
	$\triangleright$	[ETH] Fixed bug causing Frame loss when receiving IPv4 + UDP
		header Ethernet Frame when Frame length not multiple of 8 bytes
		at 40/100GbE (7836)
		[ETH] Fixed bug restricting the minimum payload size of 38-byte
		when selecting custom header at BERT application stream setting
		(7725)
	≻	[ETH] Fixed bug causing [Timing: Bit rate Difference] to remain
		unchanged at 0 even when clearing History at Ethernet test (6884)
		[ETH] Fixed bug causing IEEE15888 status Wall Clock Current
		time affects from local MT1000A time setting (7850)
	$\triangleright$	[ETH] Fixed bug causing sending of incorrect time data at
		IEEE1588 communications (7715)
		[ETH] Fixed bug causing display of NMX WARNING message
		when starting Ethernet application when 100GbE option installed

				1110011A+MU110012A configuration (7904)
				causing main frame to reboot when switching
			BERT application	custom header settings when loading settings
			file saved with V2.	xx when using V3.03 software (7894)
			> [ETH] Fixed bug	causing display of NMX_WARNING message
			when executing AF	RP on IEEE1588 function (8112)
			[ETH] Fixed bug of	ausing IP header protocol type field setting to
			become UDP(0x1	1) or TCP(0x06) automatically after previous
			setting when Non	e set after setting Frame Format Layer 4 to
			either TCP or UDP	(7777)
			> [OTN] Fixed bug	causing display of screen for making additions
			when low-order OI	OU errors and alarms cannot be inserted at OTN
			through-mode test	(6950),(6643)
			> [Remote] Fixed b	ug preventing release of port resources even
			when executing IN	ST:TERM command (7369)
			[Remote] Fixed but	g preventing normal termination processing of
			application when	using multiple user control by SCPI command
			(7816,7847,7029,7	968)
			> [Remote] Fixed but	ugs causing MX100001A to crash at following
			operations. (7933)	
			(1) At remote conne	ection from MX100001A when measuring instrument
			Remote PC connection	n set to OFF
			(2) When changing m	easuring instrument Remote PC connection setting from
			OFF to ON	
			(3) At remote connect	ion from MX100001A
			> [Remote][ETH] Re	emoved explanation of following unsupported
			commands: (7537)	
			- ETHernet:CSTat:SE	Tup:PORT <pt>:PSELect</pt>
			- ETHernet:CSTat:SE	Tup:PORT <pt>:PWIDth?</pt>
			[Remote][OTN] Fit	xed bug preventing correct reading of PSI[0]
			value using OH ca	pture remote query command (7788)
			> [SDH/SONET] Fixe	ed bug preventing reflection of measured error in
			test results during	measurement with APS application (6982)
			[Wireshark] Fixed	bug causing Wireshark restart when reading file
			format not supporte	ed by Wireshark (7595)
4.00	Dec <sup>2</sup>	10,	Key Added Features	
	2015		[NewHW] Added N	ew OTDR Module for MT1000A
			MU100020A OTDF	R Module 1310/1550 nm SMF

				MU100021A OTDR Module 1310/1550/850/1300 nm SMF/MMF
		•	Fixe	ed bugs
		•		[Framework] Fixed problem causing Chinese and Japanese UTF-8
				encoded CSV reports to display garbage characters when opened
				in MS-Excel.
				Japanese: UTF-8 to Shift JIS
				Chinese: UTF-8 to GB2312
				[Framework] Simplified Password dialog and fixed problem when
				initially enabling system password protection requiring user to know old (default) password.
			$\triangleright$	[ETH] Fixed problem in RFC2544 application causing instrument to
				restart when transmitting IPv6 formatted Learning Frames. (7808)
			$\triangleright$	[ETH] Fixed problem preventing saving of PTP message logs at
				IEEE 1588v2 log. (7421)
			۶	[ETH] Fixed problem running 10G with frame sizes above 2000
				bytes, sometimes preventing insertion of sufficient block errors
				using error insertion function. (7020)
			$\triangleright$	[OTN] Fixed problem reading PSI[0] OH byte (Payload type) using
				SCPI command. (7788)
3.04	2015-11-06	•	Fixe	ed bugs
			$\triangleright$	[OTN] Fixed bug preventing normal detection at continuous OLA
				alarm (7703)
			۶	[OTN] Fixed problem preventing PM-BIP and PM-BEI errors being
			A	[OTN] Fixed problem preventing PM-BIP and PM-BEI errors being
			A A	[OTN] Fixed problem preventing PM-BIP and PM-BEI errors being reported in Event Log. (7702)
			A A	[OTN] Fixed problem preventing PM-BIP and PM-BEI errors being reported in Event Log. (7702) [OTN] [ETH] Fixed problem causing Warning message while
			AAA	[OTN] Fixed problem preventing PM-BIP and PM-BEI errors being reported in Event Log. (7702) [OTN] [ETH] Fixed problem causing Warning message while re-loading settings file generated in an Ethernet over OTN
				[OTN] Fixed problem preventing PM-BIP and PM-BEI errors being reported in Event Log. (7702) [OTN] [ETH] Fixed problem causing Warning message while re-loading settings file generated in an Ethernet over OTN application. (7727)
				<ul> <li>[OTN] Fixed problem preventing PM-BIP and PM-BEI errors being reported in Event Log. (7702)</li> <li>[OTN] [ETH] Fixed problem causing Warning message while re-loading settings file generated in an Ethernet over OTN application. (7727)</li> <li>[ETH] Fixed problem causing instrument to restart when using</li> </ul>
				<ul> <li>[OTN] Fixed problem preventing PM-BIP and PM-BEI errors being reported in Event Log. (7702)</li> <li>[OTN] [ETH] Fixed problem causing Warning message while re-loading settings file generated in an Ethernet over OTN application. (7727)</li> <li>[ETH] Fixed problem causing instrument to restart when using Layer 2 custom header and exceeding the setup frame length by</li> </ul>
			A	<ul> <li>[OTN] Fixed problem preventing PM-BIP and PM-BEI errors being reported in Event Log. (7702)</li> <li>[OTN] [ETH] Fixed problem causing Warning message while re-loading settings file generated in an Ethernet over OTN application. (7727)</li> <li>[ETH] Fixed problem causing instrument to restart when using Layer 2 custom header and exceeding the setup frame length by enabling either Jitter or Latency measurement. (7674)</li> </ul>
3.03	Dec 2, 2015	•		<ul> <li>[OTN] Fixed problem preventing PM-BIP and PM-BEI errors being reported in Event Log. (7702)</li> <li>[OTN] [ETH] Fixed problem causing Warning message while re-loading settings file generated in an Ethernet over OTN application. (7727)</li> <li>[ETH] Fixed problem causing instrument to restart when using Layer 2 custom header and exceeding the setup frame length by enabling either Jitter or Latency measurement. (7674)</li> <li>[ETH] Fixed problem with Latency result sometimes being incorrect</li> </ul>
3.03	Dec 2, 2015	•		<ul> <li>[OTN] Fixed problem preventing PM-BIP and PM-BEI errors being reported in Event Log. (7702)</li> <li>[OTN] [ETH] Fixed problem causing Warning message while re-loading settings file generated in an Ethernet over OTN application. (7727)</li> <li>[ETH] Fixed problem causing instrument to restart when using Layer 2 custom header and exceeding the setup frame length by enabling either Jitter or Latency measurement. (7674)</li> <li>[ETH] Fixed problem with Latency result sometimes being incorrect when measuring between two ports on same module. (7691)</li> </ul>
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3.03	Dec 2, 2015	•	> > Key	[OTN] Fixed problem preventing PM-BIP and PM-BEI errors being reported in Event Log. (7702) [OTN] [ETH] Fixed problem causing Warning message while re-loading settings file generated in an Ethernet over OTN application. (7727) [ETH] Fixed problem causing instrument to restart when using Layer 2 custom header and exceeding the setup frame length by enabling either Jitter or Latency measurement. (7674) [ETH] Fixed problem with Latency result sometimes being incorrect when measuring between two ports on same module. (7691) Added Features [Remote] Added Remote Commands and GPIB-USB converter.
3.03	Dec 2, 2015	•	> > Key >	[OTN] Fixed problem preventing PM-BIP and PM-BEI errors being reported in Event Log. (7702) [OTN] [ETH] Fixed problem causing Warning message while re-loading settings file generated in an Ethernet over OTN application. (7727) [ETH] Fixed problem causing instrument to restart when using Layer 2 custom header and exceeding the setup frame length by enabling either Jitter or Latency measurement. (7674) [ETH] Fixed problem with Latency result sometimes being incorrect when measuring between two ports on same module. (7691) Added Features [Remote] Added Remote Commands and GPIB-USB converter. [ETH] Added Function for Custom Editing of Ethernet Header.

► [ETH] Enhanced RFC2544 GUI for Easier Access and B	
Overview.	etter
➢ [ETH] Enhanced RFC2544/Y.1564 Reporting Providing M	/lore
Information.	
[ETH] Renamed 'CFI' bit in VLAG tag to 'DEI' according to 2	2015
version of IEEE802.1Q.	
[Framework] Improved Report Layout: Better Look and Dis	tinct
Header Styles.	
<ul> <li>[Framework] Added Function for Filtering Results Display at Re</li> </ul>	port
Output.	
• Fixed Bugs	
<ul> <li>[Framework] Fixed problem with removing USB storage v</li> </ul>	vhile
viewing PDF or XML file stored on device (7359)	
<ul> <li>[Framework] Fixed problem with garbage characters sometion</li> </ul>	
occurring in Japanese PDF reports created using MX1000	
Control Software and read under Windows 7 64-bit	os
environment (7028)	
<ul> <li>[ETH] Fixed problem with IEEE 1588 Log sometimes repeating</li> </ul>	j old
events. (7390)	L L.
[ETH] Fixed problem with PTP clock system when running	-
rates of Sync/Announce/Delay Request packets for IEEE 1	588
protocol data (7389)	منمم
➢ [ETH] Fixed problem with 40/100G Reflector application cau statistics, orgina, to drop, frames, when swapping, of IP/N	-
statistics engine to drop frames when swapping of IP/N disabled (7376)	/IAC
<ul> <li>ETH] Fixed problem initiating OAM 802.ah Remote Loopbach</li> </ul>	k on
Accedian NIDs (7365)	V OII
<ul> <li>ETH] Fixed problem with Disruption errors sometimes reported</li> </ul>	d in
Event Log while running RFC 2544 Latency Test (7361)	111
<ul> <li>[ETH] Fixed problem with Pass-Through application running</li> </ul>	GbE
	lock
advertisement (master/slave) configuration (7284)	
➢ [ETH] Fixed problem with storing RFC 2544 result files when	test
includes more than 148 steps (7136)	
<ul> <li>[ETH] Fixed problem with the Unicast/Multicast Tx frame cour</li> </ul>	iters
on "Ethernet - Transmit" statistics page not updating when U/	
of destination MAC address set (7108)(7103)	
➢ [ETH] When using GPS as Master Clock reference	for

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	IEEE1588v2, fixed problem with current Wall Clock differing from
	displayed UTC time (6996)
×	[ETH] For RFC 2544 and SAT (Y.1564) applications running
	end-to-end network test, fixed problem with "Abort" window
	remaining on slave after test finishes (6957)
×	[ETH] For SAT Y.1564 and Mon/Gen. applications, fixed problem
	with automatically stored settings files potentially causing
	applications to fail when re-launched (6956)(7529)
×	[ETH] Solved problem with disabling SyncE sometimes leaving
	pending SSF Alarm History and Event Log entry (6912)
×	[ETH] Fixed problem with local port losing link when inserting "No
	Link" alarm, although incoming signal OK (6877)
►	[ETH] Corrected table headings in RFC 2544 Latency report when
	"Measure jitter by means of Latency test" enabled (7538)
×	[OTN] Fixed problem with not showing correct values for GMP
	Justification Max/Min Cm. (7482)
×	[OTN] Fixed problem when using multistage mapping on OTN
	where "false" LOFLOM alarms sometimes reported on lower-order
	ODUs (7006)
×	[PDH] Fixed problem on E1 interface when Distant and No CAS
	MFAS alarms sometimes also insert pattern errors (7019)
×	[SDH/SONET] Fixed problem with duplication of APS detailed
	results when switching between ports (7382)
×	[Remote][NoFrame] Fixed problem setting Frequency Offset via
	SCPI: NFRame:PORT <pt>:STIMuli:TX:FOFFset <offset> (7465)</offset></pt>
×	[Remote] Fixed problem with instrument potentially
	freezing/restarting when SCPI session closed immediately after
	starting or terminating application server (7012) (7347)
>	[Remote] Fixed problem copying multiple files simultaneously to
	PC from MT1000A/MT1100A using MX100001A Remote Control
	Software (6986)
►	[Remote][CPRI] Fixed problem using
	MEASurement:SETup:EVALuation:RX:INTerface?
со	nmand in CPRI BERT application (6992)"
<	[Remote][CPRI] When running CPRI Pass-Through application,
	fixed problem preventing use of SCPI commands for setting
	evaluation of measurement results (7042)
	MEASurement:SETup:EVALuation:RX <pt>[:ENABle]</pt>

♦ MEASurement:SETup:EVALuation:RX <pt>:INTerface</pt>	
♦ MEASurement:SETup:EVALuation:CPRI:PORT <pt>:ITEM</pt>	
MEASurement:SETup:EVALuation:CPRI:PORT <pt>:ITEM:ALARm</pt>	
MEASurement:SETup:EVALuation:CPRI:PORT <pt>:ITEM:ERRor</pt>	
MEASurement:SETup:EVALuation:CPRI:PORT <pt>:TYPE</pt>	
MEASurement:SETup:EVALuation:CPRI:PORT <pt>:CNT:FAIL</pt>	
MEASurement:SETup:EVALuation:CPRI:PORT <pt>:RATio:PASS</pt>	
MEASurement:SETup:EVALuation:CPRI:PORT <pt>:RATio:FAIL</pt>	
MEASurement:SETup:EVALuation:TMBPs:RX <pt>:ITEM"</pt>	
[Remote][ETH] Fixed problem with SCPI command for set	tting
stimuli alarm state (ETHernet:POER <pt>:STIMuli:ALAF</pt>	Rm)
unnecessarily resetting electrical PHY, causing link loss	for
several seconds (6993)	
> [Remote][OTN] When configured via SCPI remote control, fi	ixed
problem with Ethernet client not obtaining link when mapped	d to
OTU3/4 using GFP-T (6955)	
[OTN] Fixed problem using SCPI MAX and DEF parameter val	ues
for setting Error Bits for GMP JC1/JC2 Error Items (6775)	
♦ OTN:STIM:TX1:GMP:AEIN:EBIT MAX	
♦ OTN:STIM:TX1:GMP:AEIN:EBIT DEF	
Fixed Bugs	
Framework] Fixed Problem of Incorrectly Loading Configura	tion
File made Using MT1000A/MT1100A with Diffe	rent
Options.(7110,7053,7038,7000)	
➢ [Framework] Using Remote GUI Software (MX100001A), Fi	xed
Problem Causing Inability to Start Editor and Viewer.(6990)	
➢ [ETH] Removed "Communication Port" for RFC 6349 End-to-	Fnd
Test.(7172)	
Test.(7172)	nble
<ul><li>Test.(7172)</li><li>&gt; [ETH] Fixed Problem of Failing to Reflect "Expected pream</li></ul>	nble
<ul> <li>Test.(7172)</li> <li>[ETH] Fixed Problem of Failing to Reflect "Expected pream length" Value at Loading Configuration File for Ethernet P</li> </ul>	nble Pass
<ul> <li>Test.(7172)</li> <li>[ETH] Fixed Problem of Failing to Reflect "Expected pream length" Value at Loading Configuration File for Ethernet P Through Application.(7156)</li> </ul>	nble Pass of
<ul> <li>Test.(7172)</li> <li>[ETH] Fixed Problem of Failing to Reflect "Expected pream length" Value at Loading Configuration File for Ethernet P Through Application.(7156)</li> <li>[ETH] Using Ethernet BERT Application, Fixed Problem</li> </ul>	nble Pass of
<ul> <li>Test.(7172)</li> <li>[ETH] Fixed Problem of Failing to Reflect "Expected pream length" Value at Loading Configuration File for Ethernet P Through Application.(7156)</li> <li>[ETH] Using Ethernet BERT Application, Fixed Problem Incorrect File Save/Read when Stream Setting for Port 2 and Laboratory</li> </ul>	nble Pass of ater
<ul> <li>Test.(7172)</li> <li>[ETH] Fixed Problem of Failing to Reflect "Expected pream length" Value at Loading Configuration File for Ethernet P Through Application.(7156)</li> <li>[ETH] Using Ethernet BERT Application, Fixed Problem Incorrect File Save/Read when Stream Setting for Port 2 and Le Ports set to Unframed.(7041)</li> </ul>	nble Pass of ater
<ul> <li>Test.(7172)</li> <li>[ETH] Fixed Problem of Failing to Reflect "Expected pream length" Value at Loading Configuration File for Ethernet P Through Application.(7156)</li> <li>[ETH] Using Ethernet BERT Application, Fixed Problem Incorrect File Save/Read when Stream Setting for Port 2 and Li Ports set to Unframed.(7041)</li> <li>[ETH] Using Ethernet application, fixed problem causing inabilit</li> </ul>	nble Pass of ater
	<ul> <li>MEASurement:SETup:EVALuation:CPRI:PORT<pt>:ITEM</pt></li> <li>MEASurement:SETup:EVALuation:CPRI:PORT<pt>:ITEM:ALARm</pt></li> <li>MEASurement:SETup:EVALuation:CPRI:PORT<pt>:ITEM:ERRor</pt></li> <li>MEASurement:SETup:EVALuation:CPRI:PORT<pt>:TYPE</pt></li> <li>MEASurement:SETup:EVALuation:CPRI:PORT<pt>:CNT:FAIL</pt></li> <li>MEASurement:SETup:EVALuation:CPRI:PORT<pt>:RATio:PASS</pt></li> <li>MEASurement:SETup:EVALuation:CPRI:PORT<pt>:RATio:PASS</pt></li> <li>MEASurement:SETup:EVALuation:CPRI:PORT<pt>:RATio:FAIL</pt></li> <li>MEASurement:SETup:EVALuation:CPRI:PORT<pt>:RATio:FAIL</pt></li> <li>MEASurement:SETup:EVALuation:CPRI:PORT<pt>:RATio:FAIL</pt></li> <li>MEASurement:SETup:EVALuation:CPRI:PORT<pt>:STIMuli:ALAI</pt></li> <li>unnecessarily resetting electrical PHY, causing link loss several seconds (6993)</li> <li>[Remote][OTN] When configured via SCPI remote control, fi problem with Ethernet client not obtaining link when mapped OTU3/4 using GFP-T (6955)</li> <li>[OTN] Fixed problem using SCPI MAX and DEF parameter val for setting Error Bits for GMP JC1/JC2 Error Items (6775)</li> <li>OTN:STIM:TX1:GMP:AEIN:EBIT MAX</li> <li>OTN:STIM:TX1:GMP:AEIN:EBIT DEF</li> <li>Fixed Bugs</li> <li>[Framework] Fixed Problem of Incorrectly Loading Configurat File made Using MT1000A/MT1100A with Diffe Options.(7110,7053,7038,7000)</li> <li>[Framework] Using Remote GUI Software (MX100001A), Fi Problem Causing Inability to Start Editor and Viewer.(6990)</li> </ul>

×	[ETH] Fixed Problem of Disappearing Latency Results when
	Saving and Loading Latency/Burst Result using RFC 2544
	Application.(7010)
×	[ETH] Using Ethernet BERT Application, Fixed Problem Causing
	Frame Loss when Reading V2.04 Settings File.(7004)
×	[ETH] After executing Ethernet Ping function, fixed problem
	causing reboot when executing other Ethernet application.(6999)
×	[ETH] Using Ethernet Application, Fixed Problem Causing Screen
	Freeze when Sending/Receiving OAM 802.1ag/VLAN CCM.(6980)
×	[ETH] Added following query parameters to SCPI
	commands.(6975)
	ETHernet:PORT <pt>:IFETch?</pt>
	TDL: Stream 1 Throughput Data Layer (bps). Response: <min>,<max>,<avg></avg></max></min>
	TNL: Stream 1 Throughput Network Layer (bps). Response:
	<min>,<max>,<avg></avg></max></min>
	TLL: Stream 1 Throughput Link Layer (bps). Response: <min>,<max>,<avg></avg></max></min>
	TPPL: Stream 1 Throughput Physical Layer without Preamble (bps).
	Response: <min>,<max>,<avg></avg></max></min>
	TPL: Stream 1 Throughput Physical Layer (bps). Response:
	<min>,<max>,<avg></avg></max></min>
	TUL: Stream 1 Throughput Utilization Layer (bps). Response:
	<min>,<max>,<avg></avg></max></min>
	[ETH] Using Ethernet Application, at ARP Reply Sending, Fixed
	Rare Problem Causing Sending of Excess Stream Data in 1
	Frame.(6970)
	[ETH] Using Ethernet Application, Fixed Problem Sometimes
	Blocked Correct traffic with "Include addresses in frame filter on
	receiver" Settings at Rx Operation.(6964)
	[OTN] Fixed Problem of Wrongly Configuring FC800 at Loading of
	FC400 Configuration File for FC BERT over OTN.(7169)
	[OTN] Fixed Boot Failure Problem of FC BERT over OTN
~	Application.(7166)
	[OTN] Fixed problem causing no response when sending
	OTN:RX <pt>:IFET ch? S0MSIM SCPI command.(7066) [OTN] Using OTN Application, Fixed Problem of Wrongly</pt>
	Displaying MSIM Results Without Masking even at Higher-Level Alarm.(7066)
	[OTN] Using OTN application, fixed problem of incorrectly reading
×	Const osing on application, liked problem of incorrectly reading

	Performance managurement regults using CODI command when
	Performance measurement results using SCPI command when reading V2.02 or earlier results file.(7066)
	[OTN] Fixed Problem Causing Higher-Level Summary LEDs to
	Light when cHEC and tHEC Errors Detected at GFP-F/T Mapping
	of OTN Application.(6972)
	[OTN] Fixed Problem of Failing to Count Justification when
	LOFLOM Detected using OTN Application.(6962)
×	[SDHPDH] Changed mistakes in SCPI command parameter names.(7140)
	T1:RX <pt>:IFETch? (NFRame) -&gt; (OOF)</pt>
	T1:APS:RX <pt>:EVENt NFR -&gt; OOF</pt>
	T1:STATus:RX <pt>:ALARm? Loss Of Frame -&gt; OOF</pt>
	TMBPs:APS:RX <pt>:EVENt NFR -&gt; NFRame</pt>
	- similar GUI value "LOF"-> "No frame"
×	[SDHPDH] Using SDH/PDH application, fixed problem of inability
	to reboot main frame when sending following query commands and
	quitting application.(7031)
	E3:RX1:IFET? (PBBE)
×	[SDHPDH] Added E1 Balanced connector pin assignments to
	manual.(6958)
×	[SDHPDH] Fix problem causing reboot when loading settings file
	with set PDH rate at MU110011A module.(6915)
×	problem preventing use of threshold parameters set by following
	SCPI commands at evaluation of actual measurement
	results.(7042)
	MEASurement:SETup:EVALuation:RX\$<\$Pt\$>\$[:ENABle]
	MEASurement:SETup:EVALuation:RX\$<\$Pt\$>\$:INTerface
	MEASurement:SETup:EVALuation:CPRI:PORT\$<\$Pt\$>\$:ITEM
	MEASurement:SETup:EVALuation:CPRI:PORT\$<\$Pt\$>\$:ITEM:ALARm
	MEASurement:SETup:EVALuation:CPRI:PORT\$<\$Pt\$>\$:ITEM:ERRor
	MEASurement:SETup:EVALuation:CPRI:PORT\$<\$Pt\$>\$:TYPE
	MEASurement:SETup:EVALuation:CPRI:PORT\$<\$Pt\$>\$:CNT:FAIL
	MEASurement:SETup:EVALuation:CPRI:PORT\$<\$Pt\$>\$:RATio:PASS
	MEASurement:SETup:EVALuation:CPRI:PORT\$<\$Pt\$>\$:RATio:FAIL
	MEASurement:SETup:EVALuation:TMBPs:RX\$<\$Pt\$>\$:ITEM
<	[CPRI] Fixed Problem of Incorrect RTD Result Display at Each
	Testing Interval of CPRI BERT Application.(6875)
►	[FC] Fixed Problem of Missing CRC Error in Errors/Alarms List of

		Fibre Channel BERT Application.(6862)	
3.01	Jun 5, 2015	Key Added Features	
		<ul> <li>[All] Added Error/Alarm indication summary.(6888)</li> </ul>	
		<ul> <li>[All] Added Performance Verification date in test report.(6890)</li> </ul>	
		<ul> <li>[All] Added Spanish Language support.(6891)</li> </ul>	
		<ul> <li>[Framework] Added the functionality of Storage formatting.(689)</li> </ul>	5)
		<ul> <li>[RemoteGUI] Added "Settings Editor" and "Result Viewer" MX100001A (Windows application).(6894, 6942)</li> </ul>	on
		<ul> <li>[ETH] Added the functionality of "Answering ARP/PING require and reflector MAC/IP address settings on Reflector application (6897)</li> </ul>	
		<ul> <li>[OTN] Added the client signal frequency result.(6887, 6868)</li> </ul>	
		<ul> <li>[OTN] Added "Pattern Bit Error Trigger" and "LOS Trigger" on A application. (6867)</li> </ul>	<b>PS</b>
		<ul> <li>[ETH] Added "LOS" as a Ethernet Service Disruption test type optical interfaces</li> </ul>	e for
		Fixed Bugs	
		<ul> <li>[Framework] Fixed battery display information to show correctly MU110001A. (6902)</li> </ul>	/ on
		<ul> <li>[RemoteGUI] Fixed the problem regarding sorting files on windo application.(6878)</li> </ul>	ows
		<ul> <li>[ETH] Fixed the problem regarding SCPI command for stream L</li> <li>load. (6866)</li> </ul>	_ine
		<ul> <li>[ETH] Fixed the problem regarding multi stream measurement Mon/Gen application. (6940)</li> </ul>	t on
		<ul> <li>[ETH] Fixed the problem regarding SDT(Service Disruption Tir result. (6857)</li> </ul>	me)
		<ul> <li>[ETH] Fixed the problem regarding long term measurement</li> <li>PING application. (6834)</li> </ul>	on
		<ul> <li>[ETH] Fixed the problem regarding the variable field of VLAN (6860)</li> </ul>	ID.
		<ul> <li>[ETH] Fixed the problem regarding Remote Fault on Electr Interface.(6859)</li> </ul>	ical
		<ul> <li>[ETH] Fixed the problem regarding the maximum rate(CIR/EIR)</li> <li>40/100G Y.1564 application. (6855, 4246)</li> </ul>	) on
		<ul> <li>FC] Fixed the problem regarding SDT(Service Disruption Tir result. (6863)</li> </ul>	me)
		<ul> <li>FC] Fixed the problem regarding "Frame Loss Seconds" res</li> </ul>	sult.

			(6864)
			> [OTN] Fixed application crash issue when starting a measurement
			with threshold enabled. (6939)
			<ul> <li>[OTN] Improved regarding frequency offset.(6887)</li> </ul>
3.00	May	25, ●	Added CPRI applications.(6465)
	2015	•	Added following functions to Ethernet applications:
			Added RFC6349 application.(6366)
			Added Layer 2 frame format support on Y.1564 application.(6398)
			<ul> <li>Added automatic service name on Y.1564 application.(6360)</li> </ul>
			> Added "Include addresses in frame filter on receiver ON/OFF" on
			RFC2544/Y.1564/MonGen applications.(6557)
		•	Added following functions to OTN applications:
			Added 3stage mapping on OTU3/4.(6369)
			Added BMP mapping of SDH client.(6372)
			<ul> <li>Added FTFL alarm insertion/detection.(6373)</li> </ul>
			Improved the setting order of OTN Client.(6374)
			<ul> <li>Supported GFP-F Client signal up to 100G.(6369)</li> </ul>
			<ul> <li>Added Error/Alarm statistics on APS application.(6399)</li> </ul>
		•	Added following functions to SDH applications:
			<ul> <li>Added Pattern Error Trigger on APS application.(6419)</li> </ul>
			<ul> <li>Added Error/Alarm statistics on APS application.(6399)</li> </ul>
		•	Added following functions to FC applications:
			<ul> <li>Added Frequency offset Insertion/Monitor.(6405)</li> </ul>
			Added Reflector application.
		•	Added following common functions:
			<ul> <li>Added GUI remote functionality from PC.(6342,6341)</li> </ul>
			<ul> <li>Added Event Log functionality.(6400)</li> </ul>
			<ul> <li>Added VIP application on Utility.(6367)</li> </ul>
			<ul> <li>Added MDIO analysis functionality for CFP module.(6351)</li> </ul>
			<ul> <li>Added electrical extender module support.(6483)</li> </ul>
			<ul> <li>Added external 10MHz clock support.(6464)</li> </ul>
			<ul> <li>Added Emphasis and Equalizer functionality for CFP/CFP2.(6352)</li> </ul>
			<ul> <li>Added Swedish keyboard input support.(6345)</li> </ul>
			<ul> <li>Added CSV format report support.(6340)</li> </ul>
			Improved Utility Icon visualization.(6365,6362,6361)
			Fixed Bugs [All] Fixed the problem that CFP2 interface may not
			work correctly when configuring the timing source,

				"Received".(6667)
			$\triangleright$	[All] Fixed the problem that MT1100 which mounts MU110010A
				sometimes shutdown when launching with battery.(6880)
			$\triangleright$	[SCPI] Fixed the problem of Measurement Stop just after
				Measurement Start.(6726)
			$\triangleright$	[SCPI] Improved the stability of long term SCPI running.(6707)
			$\triangleright$	[ETH] Fixed the problem that MPLS-TP result does not count up
				when MPLS-TP OAM frame received.(6762)
			$\triangleright$	[ETH] Fixed the problem regarding E2E communication between
				MT1000/MT1100 and CMA3K on RFC2544 application.(6735)
			$\triangleright$	[ETH] Fixed the problem regarding selection of throughput type on
				RFC2544 application.(6658)
			$\triangleright$	[ETH] Improved the stability of long term running on RFC2544
				application.(6656, 6644)
			$\succ$	[ETH] Fixed the problem that SDT result resets when LOS
				detected.(6570)
			$\triangleright$	[ETH] Fixed the problem regarding PCS alarm LED.(5892)
			$\triangleright$	[OTN] Fixed the problem regarding the mapping for 10GbE into
				ODU2e, mapping procedure is AMP (Asynchronous CBR
				Mapping). (6372)
				[SDH] Fixed the problem regarding Performance
				measurement.(5419)
				[FC] Fixed the problem regarding SDT measurement.(6531)
				[FC] Fixed the problem that undersize frame sometimes
				counts.(6254)
				[NoFrame] Fixed the problem regarding the BERT measurement
			~	result on NoFrame application.(6733)
			$\rightarrow$	[ETH] Default setting of throughput calculation layer is changed on
			$\mathbf{A}$	RFC 2544 [ETH] Fixed the process of handling larger test results than the
			<i>F</i>	available storage on RFC 2544
				[ETH] RFC 2544 "Average Throughput" test calculation fixed by
			F	only calculating during a stable data stream
2.05	Mar	25,	• Bu	g fixes and Improvements
	2015	_0,		[OTN] Fixed the problem regarding the error on OUT3-40GbE
				mapping.(6454)
			$\blacktriangleright$	[All] Fixed the problem on MU110001A without battery operation.
				(Bug only for ver. 2.04) (6411)
				(Bug only for ver. 2.04) (6411)

			> [All] Fixed the problem that application crashed after long ter	rm
			<ul> <li>[All] Fixed the problem that application crashed after long ter running.(6455, 6552)</li> </ul>	111
			[All] Fixed the problem regarding the network configure on the second	he
			Ethernet Service Interface.(6461)	
2.04	Jan	22,	Enhancements	
	2015		[SCPI] Added the launching GUI command and the functionality	of
			switching control between the GUI and Remote.(6355)	
			<ul><li>[PDH] Added the PRBS31 test pattern on E3.(6064)</li></ul>	
			<ul> <li>Bug fixes and Improvements</li> </ul>	
			<ul><li>[OTN] Fixed the problem regarding through mode.(6386)</li></ul>	
			$\succ$ [OTN] Fixed the problem regarding the Performance	се
			measurement. (6264)	
			[OTN] Fixed the problem regarding the OTN payload typ	pe
			setting/detection for ODU4-ODU2e-10GE mapping. (6401)	
			<ul> <li>[ETH] Fixed the problem regarding transmitting stream of the second stream of the second stream of th</li></ul>	on
			40/100G.(6281)	
			[ALL] Improved the stability when measuring.(6376,6229)	
2.03	Dec	18,	Bug fixes and improvements	
	2014		<ul> <li>[OTN] Added some Errors (LLM-OTL, MFAS-OTL). (6262)</li> <li>[OTN] Added some Error Trigger Type on ADS.</li> </ul>	
			<ul> <li>[OTN] Added some Error Trigger Type on APS measuremer (6261)</li> </ul>	nı.
			<ul> <li>(0201)</li> <li>▶ [OTN] Changed the name of some Errors. (OTL, LOA, LOB</li> </ul>	21
			LOAML) (6262)	<b>،</b> ∟,
			<ul> <li>[SDH] Improved the updating results on Pointer Moveme</li> </ul>	<u>ent</u>
			measurement. (6265)	,,,,,
			<ul> <li>[ETH] Fixed the problem regarding the showing service number of</li> </ul>	on
			Y1564 application. (6295)	
			[ETH] Fixed the problem of End to End measurement on Y.156	64
			application. (6291)	
			<ul> <li>[ETH] Fixed the problem that HiBER is not detected. (6230)</li> </ul>	
			➢ [FW] Fixed the problem regarding the VNC connections. (6243)	
			[FW] Fixed the problem regarding the Battery information of	on
			MT1100.(6020)	
			[RFS] Supported ETSI R&TTE EN300 328 V1.8.1. (6263)	
			<ul> <li>[RFS] Improved the stability on all applications. (6318)</li> </ul>	
			[RFS] Improved the stability of the Ethernet Service Interfac	æ.
			(6404)	
2.02	Nov	11,	Bug fixes and improvements	

	2014		> [OTN] Fixed the bug which is on decode of ITU-T G709
			PSI[0].(6231)
			[ETH] Fixed the bug that NMX_ASSERT is sometimes occurred.
			(6232)
			[FC] Fixed the bugs which are interoperability issue and some
			minor issues. (5088, 6253, 6254)
			<ul><li>[Wireshark] Fixed the bugs and improved the stability.(6166)</li></ul>
2.01	Oct	23,	• Support for the following products:
	2014		MT1100A Network Master Flex Main frame
			MU110010A 10G Multirate Module
			MU110011A 100G Multirate Module
			MU110012A 40/100G Module CFP2
			Added Fibre Channel applications
			<ul> <li>Added following functions to Ethernet applications:</li> </ul>
			Support for WAN-PHY interface
			Frame capture include Wireshark
			Channel Statistics
			<ul> <li>Added following functions to OTN applications:</li> </ul>
			➢ GFP-F mapping
			FC client mapping
			Bug fixes and improvements
1.00	Jun	23,	Initial release. Support for the following products:
	2014		<ul> <li>MT1000A Network Master Pro Main frame</li> </ul>
			MU100010A 10G Multirate Module

## **Known Problems**

	Version	Description
MT1000A/	V14.00	• [ETH] Service Disruption Time result is ±300 ms
MT1100A		measurement accuracy when using CFP2 interface of
MU100010A		Ethernet BERT application. (6858)
MU100011A		• [SDH/SONET] On selecting Any Error as a trigger the APS
MU110010A		measurement result detected was about 10ms longer than
MU110011A		the actual switching time. (10849)
MU110012A		• [ETH][MxH] Fixed bug causing display of smaller than true
MU110013A		measured service loss time when [LOS] selected as
		measurement type at MT1000A Ethernet BERT and
		eCPRI/RoE BERT applications; bug avoided by selecting
		[Ver. 9.05 or earlier] for latency/jitter timestamp. (13429)