

XCAL-Series

Release Note

Doc Rev: 09

Product Version: 3.3.4.124

2015. 11

Accuver

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About Release Note

This Release Note documentation announces new features, fixed bugs, changes, and removed function of XCAL series products. This Release Note is provided with 4 types; **Addition**, **Change**, **Bug Fix**, and **Known Issue**.

For details of XCAL usage, refer to *XCAL series User Guide* which is provided upon purchase.

Revision History

Revision	Product Version	Date of Release	Note
0	3.3.4.0	Feb 06, 2015	
1	3.3.4.39	Apr 7, 2015	
2	3.3.4.49	Apr 30, 2015	
3	3.3.4.54	May 11, 2015	
4	3.3.4.66	Jun 11, 2015	
5	3.3.4.72	July 7, 2015	
6	3.3.4.88	July 24, 2015	
7	3.3.4.93	Aug 21, 2015	
8	3.3.4.121	Nov 9, 2015	
9	3.3.4.124	Nov 16, 2015	

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Version: 3.3.4.124

Date of Release: Nov 16, 2015

Bug Fix

AutoCall

Title	Update of Idle Time at Incoming Call Side	Call Type	Multi-RAB
Product		Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed to properly update Idle Time of Incoming Call Side.

Title	Scenario Save	Call Type	Multi-RAB
Product		Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed to properly save Scenario for Multi-RAB.

Title	Abnormally Popped-up MtoM Alarm Screen	Call Type	Multi-RAB
Product		Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed not to display abnormally popped-up MtoM alarm screen for Multi-RAB.

MOS

Title	Data Update on [MOS Statistics] - [History]		
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed to properly update data in [MOS Statistics] – [History] tab.

Title	Simultaneous Selection on options of [Using MOS Count for Traffic Time] and [Continuous Call in CBQ] for MtoM Call	Call Type	M to M call
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed the options of [Using MOS Count for Traffic Time] and [Continuous Call in CBQ] not to be selected simultaneously for M to M call test.

XCAL-Smart

Title	Display Error on [Current Throughput] for Multi-RAB		
Product	XCAL-Smart	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed display error on [Current Throughput] for Multi-RAB. It used to be not displayed.

Version: 3.3.4.121

Date of Release: Nov 9, 2015

Addition

Common

Title	Usage of Remote Desktop Connection		
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location	Windows [Remote Desktop Connection]		
Description of Enhancement/Fixes			

Added to use Windows [Remote Desktop Connection] feature to use XCAL in another PC.

- ⓘ This feature can be used only when Accuver Service is turned on.
- ⓘ Limitation: User1

Title	Declaration algorithm of LTE Handover Failure		
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

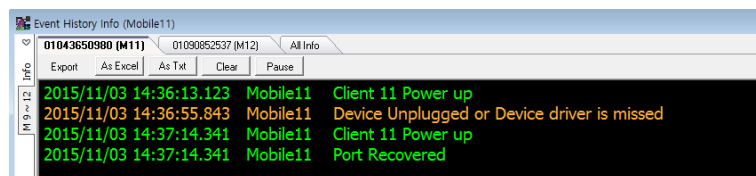
Added declaration algorithm for LTE Handover Failure.

LTE Handover Failure event is declared when rrcConnectionReestablishmentRequest is appeared within T304 without rrcConnectionReconfigurationComplete after rrcConnectionReconfiguration.

Title	Year/Month/Day in [Event History Info] Window		
Product	XCAL Multi Series, MTS	Requestor	

Chipset		CRM#	
Location	[Message] - [Event History Info] window		
Description of Enhancement/Fixes			

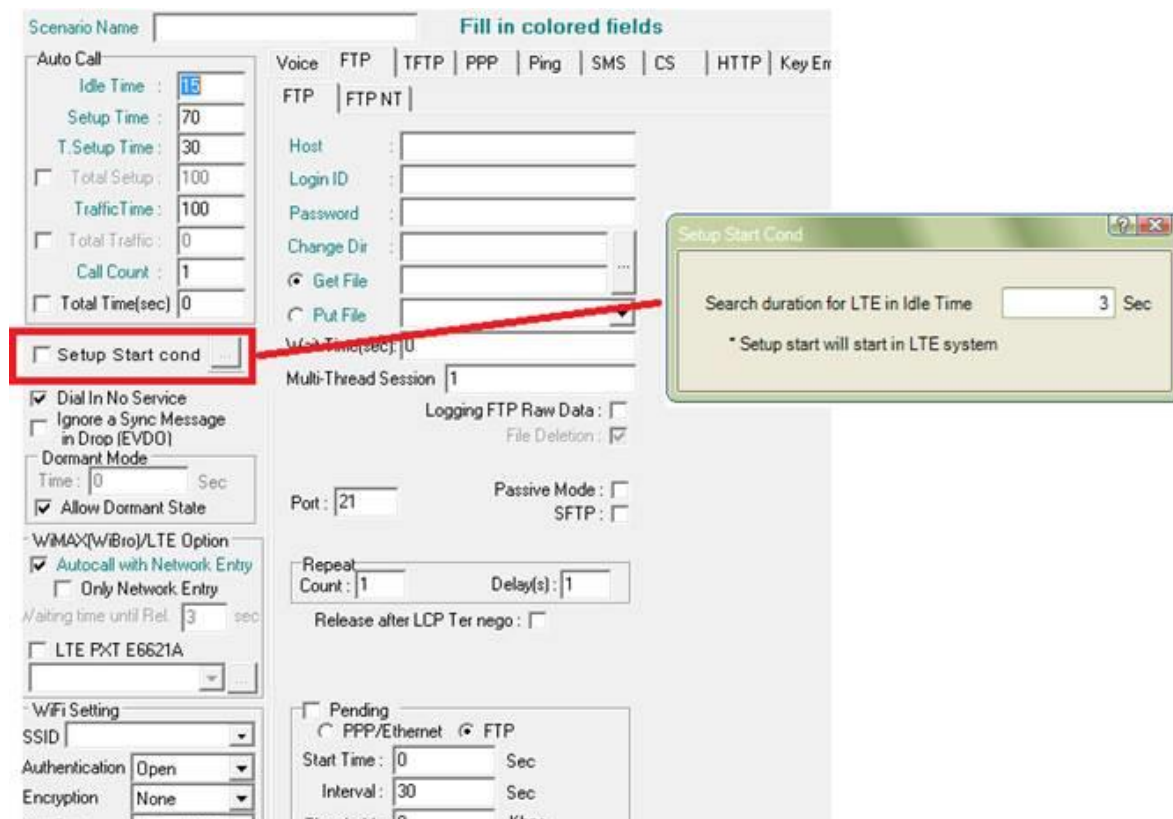
Added Year/Month/Day information in [Event History Info] window.



AutoCall

Title	[Setup Start Cond] in [AutoCall Setup]	Call Type	Data Call
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location	[AutoCall Setup] window		
Description of Enhancement/Fixes			

Added [Setup Start Cond] option in [AutoCall Setup] window for data calls (FTP, HTTP, PING, TFTP, PPP, VOD, UDP, Youtube, ADB Script).



Title	Airplane Mode On/Off for [Voice] – [BT Call]	Call Type	Voice – BT Call
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Added [Airplane mode On/Off in idle] option for Voice – BT Call.

The screenshot shows a configuration window for a BT Call. On the left, under 'Auto Call', the 'Airplane mode On/Off in Idle' checkbox is checked and highlighted with a red box. Below it, 'On to Off Time' is set to 5 Sec, and 'Cmd Type' is set to ADB. The main configuration area on the right shows 'Call Type' as 'Idle', 'Destination' as 'None', and 'Dial Select' as 'Phone'. Other settings like 'Idle Time', 'Setup Time', and 'Total Setup' are visible on the left sidebar.

Title	Call Manager – Outgoing Call Command	Call Type	QC-VoLTE, QC-WCDMA
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

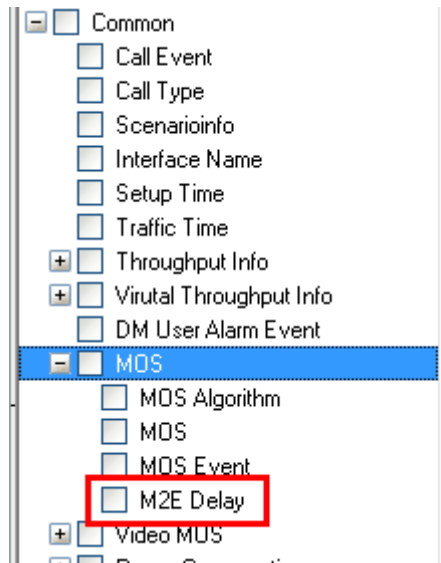
Changed command of call transmission in Call Manager.

MOS

Title	M2E Delay in User Defined		
Product	XCAL Series	Requestor	
Chipset		CRM#	

Location	[User Defined] menu
Description of Enhancement/Fixes	

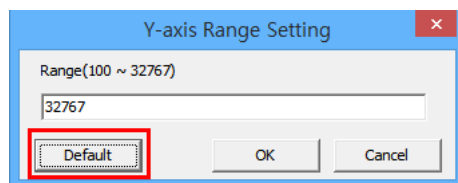
Added M2E Delay in [User Defined] windows.



Title	Default in [Y-axis Range Setting] in [MOS Wave Format] window		
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location	[MOS] - [MOS Wave Format] – Mouse Menu [Y-axis Range Setting]		
Description of Enhancement/Fixes			

Added [Default] button in [MOS Wave Format] – [Y-axis Range Setting].

Default is set to 32767.



Qualcomm Chipset

Title	Log code of 0xB0C0 LTE RRC OTA Message in version 12		
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	

Location	
Description of Enhancement/Fixes	

Added to process log code of 0xB0C0 LTE RRC OTA Message in version 12.

Title	Downlink 256QAM		
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Location			
Description of Enhancement/Fixes			

Added Downlink 256QAM and appear in the following Monitoring windows.

- LTE-Q Summary Graph / LTE(Adv)-Q Summary Graph
- LTE-Q Downlink & Uplink Information / LTE(Adv)-Q Downlink & Uplink Information
- User Defined / Real Time Mapping

Title	[Idle Mode Load Balancing Attempt] in [LTE Handover Event Statistics] window		
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Location	[LTE KPI] – [LTE Handover Event Statistics]		
Description of Enhancement/Fixes			

Added to display Idle Mode Load Balancing Attempt in [LTE Handover Event Statistics] window.

LTE Handover Event Statistics (Mobile1)									
Re1 Total									
Clear		<input type="checkbox"/> Show Chipset Time							
Time	Event	Freq	Base	Result	Attempt	Success	Fail	Duration(ms)	
13:04:44.615	Intra LTE-HO	-	Unknown	Success	1	1	0	20	
13:09:41.741	Intra LTE-HO	-	X2	Success	11	11	0	20	
13:08:44.849	Intra LTE-HO	EUTRA(2500)	eNB	Success	1	1	0	29	
13:09:37.349	Idle Mode Load Balancing	EUTRA(2500) to EUTRA(1350)	eNB	Success	1	1	0		
13:09:37.348	Inter-Freq HO	EUTRA(2500) to EUTRA(1350)	eNB	Success	1	1	0		
Time	Event	Freq	Base	Result					
13:08:44.849	Intra LTE-HO	EUTRA(2500)	eNB	Success					
13:09:00.974	Intra LTE-HO	-	X2	Attempt					
13:09:01.085	Intra LTE-HO	-	X2	Success					
13:09:04.708	Idle Mode Load Balancing	EUTRA(2500), EUTRA(1350), EUTRA(200)		Attempt					
13:09:37.349	Idle Mode Load Balancing	EUTRA(2500) to EUTRA(1350)		Success					
13:09:37.311	Inter-Freq HO	EUTRA(2500) to EUTRA(1350)	eNB	Attempt					

Title	[Idle Mode Load Balancing Attempt] in [LTE Handover/Load Balancing Info] window		
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Location	[LTE KPI] – [LTE Handover/Load Balancing Info] window		
Description of Enhancement/Fixes			

Added to display [Idle Mode Load Balancing Attempt] in [LTE Handover/Load Balancing Info] window.

13:09:04.473	LTE Tracking area update request	-	G0011(MMEGI(32769),MMECI(16),M_TMSI(41611
13:09:04.513	LTE rrcConnectionSetupComplete - LTE Security en	-	01d6111(MMEGI(32769),MMECI(16),M_TMSI(41611
13:09:04.708	LTE rrcConnectionRelease	LTE-Idle Mode Load Balancing Attempt	EUTRA(2500), EUTRA(1350), EUTRA(200)
13:09:04.718	LTE Tracking area update accept	-	G0011(MMEGI(32769),MMECI(16),M_TMSI(41611
13:09:05.208	LTE systemInformationBlockType1	-	msg(450)(SubKorean),msg(5)(KTD),TAC(9000),G

Samsung Chipset

Title	[CA Cell Info] in [User Defined] and [Real Time Mapping]		
Product	XCAL Series	Requestor	
Chipset	Samsung	CRM#	
Location	[User Defined] and [Real Time Mapping]		
Description of Enhancement/Fixes			

Added CA Cell Info for [User Defined] and [Real Time Mapping].

<input type="checkbox"/> CA Cell Info
<input type="checkbox"/> PCell
<input type="checkbox"/> PCell PCI
<input type="checkbox"/> PCell EARFCN
<input type="checkbox"/> PCell RSRP
<input type="checkbox"/> PCell RSRQ
<input type="checkbox"/> PCell RSSI
<input type="checkbox"/> PCell SINR
<input type="checkbox"/> PCell Trans.mode
<input type="checkbox"/> PCell RI
<input type="checkbox"/> PCell CQ
<input type="checkbox"/> PCell DL TP
<input type="checkbox"/> PCell UL TP

Title	Serving Cell Line and Coverage Display in Real Time Mapping		
Product	XCAL Series	Requestor	
Chipset	Samsung	CRM#	
Location	Real Time Mapping		

Description of Enhancement/Fixes

Added to display Serving Cell Line and Coverage per technology in Real Time Mapping.

GCT Chipset

Title	GCT 7243 Packet in [PPP Frame Message] window		
Product	XCAL Series	Requestor	
Chipset	GCT 7243	CRM#	
Location	[PPP Frame Message]		
Description of Enhancement/Fixes			

Added to display packets of GCT 7243 chipset in [PPP Frame Message] window.

Scanner

Title	RSRP(Noise Clipped) in [LTE WideBand View] tab in R&S TSMW Scanner.		
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Added RSRP (Noise Clipped) in [LTE WideBand View] tab in R&S TSMW Scanner.

PCI	RSRP	RSRP(Noise Clipped)	T0/R0	T1/R0	T2/R0	T3/R0
167	-63.88	-63.96	-65.47	-62.45	-63.71	
159	-73.61	-81.40	-73.23	-74.01	-73.60	

PCI	RSRQ	RSRQ(Noise Clipped)	T0/R0	T1/R0	T2/R0	T3/R0
167	-6.79	-7.07	-8.38	-5.37	-6.62	
159	-17.85	-24.52	-17.36	-18.36	-17.83	

PCI	RS CINR	T0/R0	T1/R0	T2/R0	T3/R0
167	11.57	15.78	18.92	0.00	
159	-4.74	-4.88	-9.33	0.00	

Change

Common

Title	Mobile Parsing		
Product	XCAL Multi Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

For Multi series DM, changed to conduct parsing the mobile opened in the following windows.

- Packet (Modem) Message
- Packet Capture Viewer
- PPP Frame (Mobile Packet) Message
- HTTP / SIP Message View

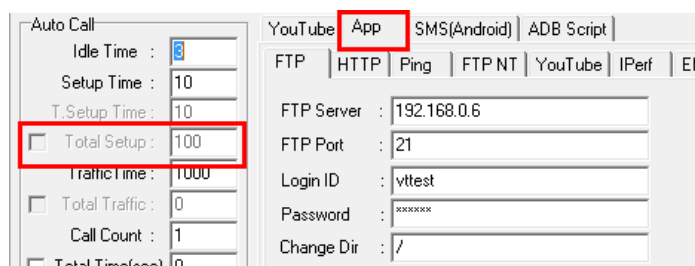
AutoCall

Title	Agreement Screen for Play Store Call Test	Call Type	ADB Script
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Changed to remove the agreement screen pops up in mobile referring to TX FIN, RX FIN after 3way Hand Shake for Play Store call test.

Title	Inactivation of Total Setup	Call Type	App
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location	[AutoCall Setup] window		
Description of Enhancement/Fixes			

Changed to inactivate [Total Setup] in [AutoCall Setup] for App call test.

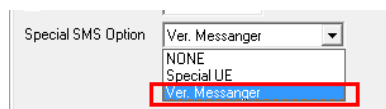


Title	Call Outgoing using ADB Command for Voice Call Test	Call Type	Voice
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Changed to attempt call outgoing several times when applying ADB Command for voice call test.

Title	SMS Send Logic to support Verizon Message App	Call Type	SMS (Android)
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Changed SMS Send logic to support Verizon Message app in SMS (Android).



Title	[via ADB Port]	Call Type	iPerf
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location	[AutoCall Setup] window		
Description of Enhancement/Fixes			

Removed [via ADB Port] for iPer call Test.

Title	[WiMAX(WiBro)/LTE Keep con.]	Call Type	Common
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location	[AutoCall Scenario Setting] window – [WiMAX(WiBro)/LTE Keep con.] tab		
Description of Enhancement/Fixes			

Removed following items in [WiMAX(WiBro)/LTE Keep con.] tab.

- Release on abnormal result and don't try NE at next call(with Keep con)
- Release on user stop(with Keep con and Auto entry Function)

Reservation | Call Control | WiMAX(WiBro)/LTE Keep con. | Special ◀ ▶

☒ Retry Auto entry at next call on Drop and Pending(with Keep con)

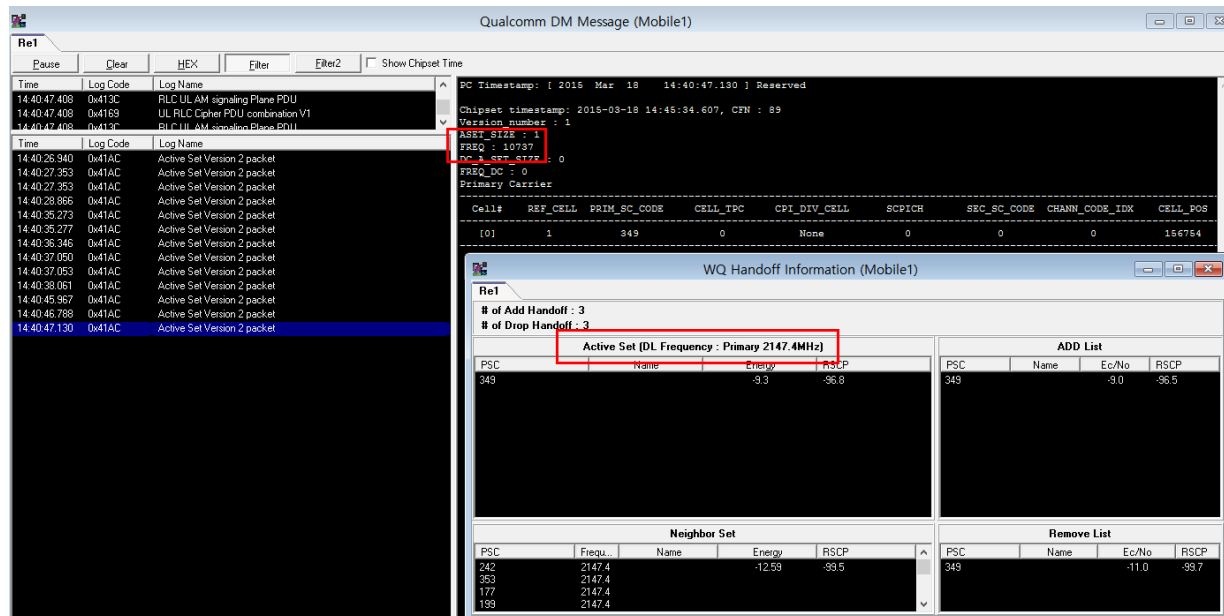
☐ Skip calls on setup fail of 1st call (with Keep con.) Wait Time : 0

☒ Release on abnormal result

Qualcomm Chipset

Title	Reference Code of code -x41AC in [WQ Handoff Information] window		
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location	[WCDMA Status] – [WQ Handoff Information] window		
Description of Enhancement/Fixes			

Added reference code of code0x41AC in [WQ Handoff Information] window.



Title	Message Display in [SIP Status] when applying IMS		
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location	[SIP Status] window		
Description of Enhancement/Fixes			

Changed message display in [SIP Message] window when applying IMS.

Before: Response code:Message ID

After: Message ID/Response code

Samsung Chipset

Title	IMSI Display in [LTE-S NAS SIM, PLMN, IP Info] window		
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

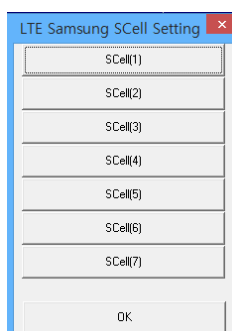
Changed IMSI display in [LTE-S NAS SIM, PLMN, IP Info] window.

SIM data Info			
Time	18:20:11.729	Time Stamp	186321498
TAI	54:F0:50:08:03	S-TMSI	10:F8:77:D5:09
SIM Update status	0	IMSI	450050499437085
GUTI	54:F0:50:80:01:10:F8:77:D5:09	HPLMN Search period	104
PLMN Selection Info			
Time	18:20:11.925	Time Stamp	186321529
Registered PLMN	000000	-	
NAS IP Info			
Time	18:20:11.925	Time Stamp	186321559
IPv4 Address	-	IP Mode	Unknown Mode (0x00000000)
IPv6 Address	-		

Title	Show/Hide SCell in Windows including CA items.		
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Added to show/hide SCell in the windows including CA items.

- LTE(Adv)-S Phy Status & Cell Search Info
- LTE(Adv)-S Phy Channel Quality Info
- LTE(Adv)-S Phy System Info
- LTE(Adv)-S Phy Parameter Info
- LTE(Adv)-S L1 RF & Sync Info
- LTE(Adv)-S Downlink Info



Bug Fix

Common

Title	Client Reset after Port Setting		
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed not to reset client after Port Setting.

Title	[Load All Settings]		
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed to properly import windows by [Load All Settings] after saving via [Save All Settings].

Title	ELF encountering when Program Termination		
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed not to encounter ELF when terminating the program.

Title	Abnormal Message Display while synchronizing AirPCap		
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed not to show abnormal messages when AirPCap is synchronized.

Title	LTE Cell Throughput Display in Particular Mobile Model		
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed to properly show LTE Cell Throughput in particular mobile models.

Title	Wrong Channel Data in [Status]– [Phone Status] window		
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location	[Status] – [Phone Status]		
Description of Enhancement/Fixes			

Fixed not to show wrong channel value in [Status] - [Phone Status] window.

Title	LTE Handover - Success in [LTE Handover Event Statistics]		
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location	[LTE KPI] – [LTE Handover Event Statistics]		
Description of Enhancement/Fixes			

Fixed to properly declare Success for LTE Handover in [LTE Handover Event Statistics] window.

AutoCall

Title	Ping Event Declaration in IPv6	Call Type	
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed to properly declare Ping events in IPv6.

Title	SIP Read in IPv6	Call Type	
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed to properly read SIP in IPv6.

Title	ELF while Stop/Pause AutoCall	Call Type	Common
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed not to encounter ELF while stopping or pausing AutoCall.

Title	Virtual Memory Increase while Processing PlayStore Test	Call Type	ADB Script
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed not to increase virtual memory while conducting Play Store call test.

Title	Modem (DUN) for 2 Calls Test	Call Type	
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed to properly operate Modem (DUN) while conducting 2 call tests simultaneously.

Title	Idle Start When Network Type is set to LTE Con.	Call Type	
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed not to enter Idle Start even when network is not LTE if Network Type is set to LTE Con.

Title	HTTP Download/Upload	Call Type	
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed to operate HTTP Download and Upload properly.

Title	Network Entry at the First Scenario while using Keep Con. option	Call Type	
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed to attempt Network Entry for the first scenario while [Keep Con.] option is set to on.

Qualcomm Chipset

Title	EARFCN, Band, Frequency of Neighbor Cell		
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	

Location	
Description of Enhancement/Fixes	

Fixed to properly display EARFCN, Band, Frequency of Neighbor Cell.

Title	Data in LTE-Q PUSCH HARQ Retransmission Info window		
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Location	[LTE-Q PUSCH HARQ Retransmission Info]		
Description of Enhancement/Fixes			

Fixed to properly show appropriate data in [LTE-Q PUSCH HARQ Retransmission Info] window.

Title	CDMA Signaling Message Parsing		
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Location			
Description of Enhancement/Fixes			

Fixed to properly parse CDMA Signaling Message.

Title	Extra High App Throughput Data for HTTP test		
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Location			
Description of Enhancement/Fixes			

Fixed not to display abnormally high data for App Throughput while conducting HTTP test.

Samsung Chipset

Title	Wrong Chipset Data in [LTE(Adv)-S Summary Graph] window		
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Product	XCAL Series	Requestor	
Chipset	Samsung	CRM#	
Location	[LTE(Adv)-S Summary Graph] window		
Description of Enhancement/Fixes			

Fixed to show data of corresponding chipset in [LTE(Adv)-S Summary Graph] window.

GCT Chipset

Title	GDM7243Q Menus for GDM 7243		
Product	XCAL Series	Requestor	
Chipset	GDM 7243	CRM#	
Location			
Description of Enhancement/Fixes			

Fixed not to display GDM 7243Q menu for GDM7243.

Scanner

Title	CINR antenna in [WideBand View] tab in [R&S TSMW Scanner]		
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location	[R&S TSMW Scanner] – [LTE WideBand View] tab		
Description of Enhancement/Fixes			

Fixed to show data per CINR antenna in [WideBand View] tab in [R&S TSMW Scanner].

Version: 3.3.4.108

Date of Release: Nov 9, 2015

Addition

AutoCall

Title	Special SMS option (Specific UE)	Call Type	SMS(Android)
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location	AutoCall Setup		
Description of Enhancement/Fixes			

Added the option of [Special SMS Option (Specific UE)] for SMS (Android) call setting.

Qualcomm Chipset

Title	LogCode 0xB103 Serving Cell Measurement Result in Subpacket version 19		
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Location			
Description of Enhancement/Fixes			

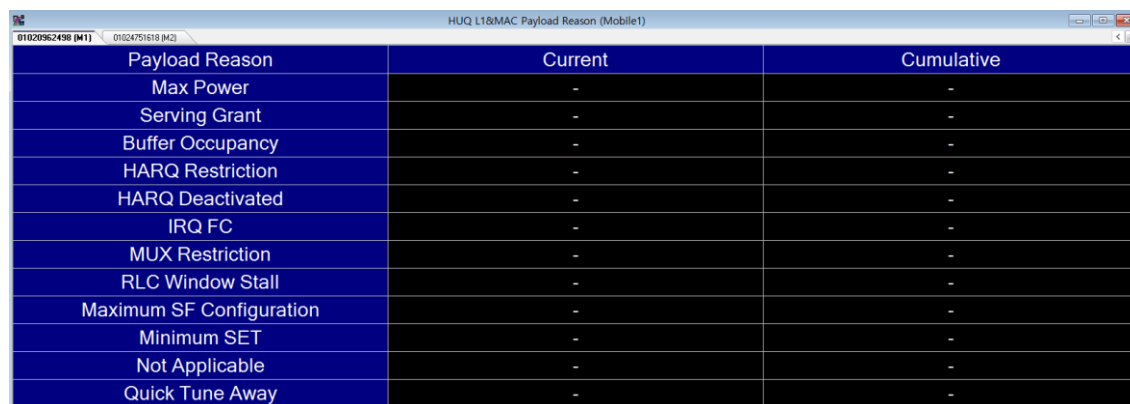
Title	LogCode 0xB0C0 LTE RRC OTA Message in version 11		
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Location			
Description of Enhancement/Fixes			

Title	LogCode 0xB16C LTE ML1 DCI Information Report, 0xB16D LTE ML1 GM TX Report in version 24		
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Location			
Description of Enhancement/Fixes			

Title	LogCode 0xB16E LTE ML1 PUSCH Power Control in version 24		
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Location			
Description of Enhancement/Fixes			

Title	[HUQ L1&MAC Payload reason] Menu		
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Location			
Description of Enhancement/Fixes			

Added [HUQ L1&MAC Payload reason] Menu.



Payload Reason	Current	Cumulative
Max Power	-	-
Serving Grant	-	-
Buffer Occupancy	-	-
HARQ Restriction	-	-
HARQ Deactivated	-	-
IRQ FC	-	-
MUX Restriction	-	-
RLC Window Stall	-	-
Maximum SF Configuration	-	-
Minimum SET	-	-
Not Applicable	-	-
Quick Tune Away	-	-

Samsung Chipset

Title	RACH in [Signaling Message]		
Product	XCAL Series	Requestor	
Chipset	Samsung	CRM#	
Location			
Description of Enhancement/Fixes			

Added RACH in [Signaling Message].

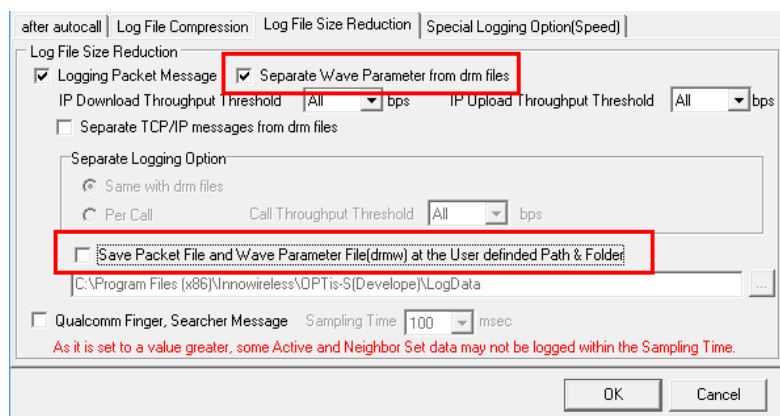
Change

Common

Title	Name of Location of .drmwf option		
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location	[Setting] - [Log File Setting]		
Description of Enhancement/Fixes			

Renamed and changed the location of .drmwf option in [Log File Setting] window.

- [Save Packet File and Parameter File(drmwf) at the User defined Path & Folder] folder is activated only when [Separate Wave Parameter from drm files] is selected.



AutoCall

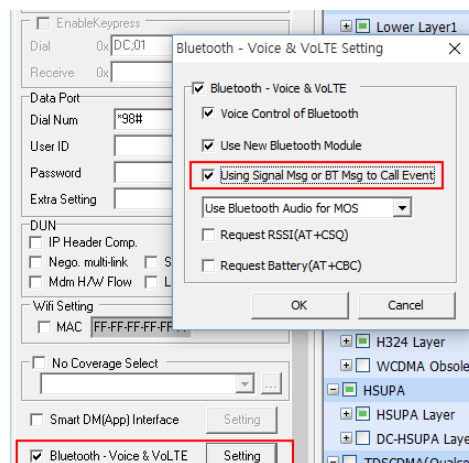
Title	Declaration Condition for VoLTE Setup Fail	Call Type	VoLTE
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Changed declaration condition for VoLTE Setup Fail.

When there is SIP message 4xx, 5xx, 6xx between Call Start and Traffic Start, Setup Fail is declared.

Title	Event Declaration referring to SIP message	Call Type	
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Changed to declare call events referring to SIP message even when Bluetooth – Voice & VoLTE -> Using Signal Msg or BT Msg to Call Event in Port Setting.

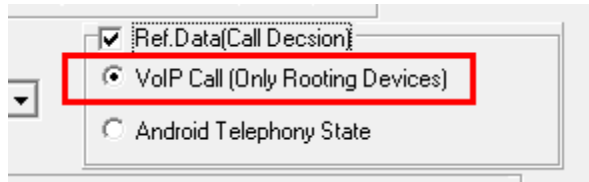


Title	Priority of Capture Start Command	Call Type	Voice – Common
Product	XCAL Series	Requestor	
Chipset		CRM#	

Location	
Description of Enhancement/Fixes	

Changed priority order of Capture Start command when Pcapdump in Voice – Common.

- Giving higher priority on Custom Kernel than Rooting.



Hisilicon Chipset

Title	Transmission of Hi6910 AT command through TCP Port		
Product	XCAL Series	Requestor	
Chipset	Hisilicon Chipset	CRM#	
Location			
Description of Enhancement/Fixes			

Changed transmission of Hi6910 AT command through TCP Port.

Bug Fix

Common

Title	Importing .xls, xlsx File in BTS Manager		
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed to properly import .xls and .xlsx file in BTS Manager.

Title	Play Store test in Mobile Models for KT		
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed to properly conduct Play Store call test in mobile models for KT.

AutoCall

Title	No Response during AutoCall Test	Call Type	Common
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed not to get No Response during AutoCall test.

Qualcomm

Title	Serv.Cell Info in [LTE-Q Channel quality info] window		
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Location			
Description of Enhancement/Fixes			

Fixed to properly show Serv.Cell Info in [LTE-Q Channel quality info] window.

Version: 3.3.4.100

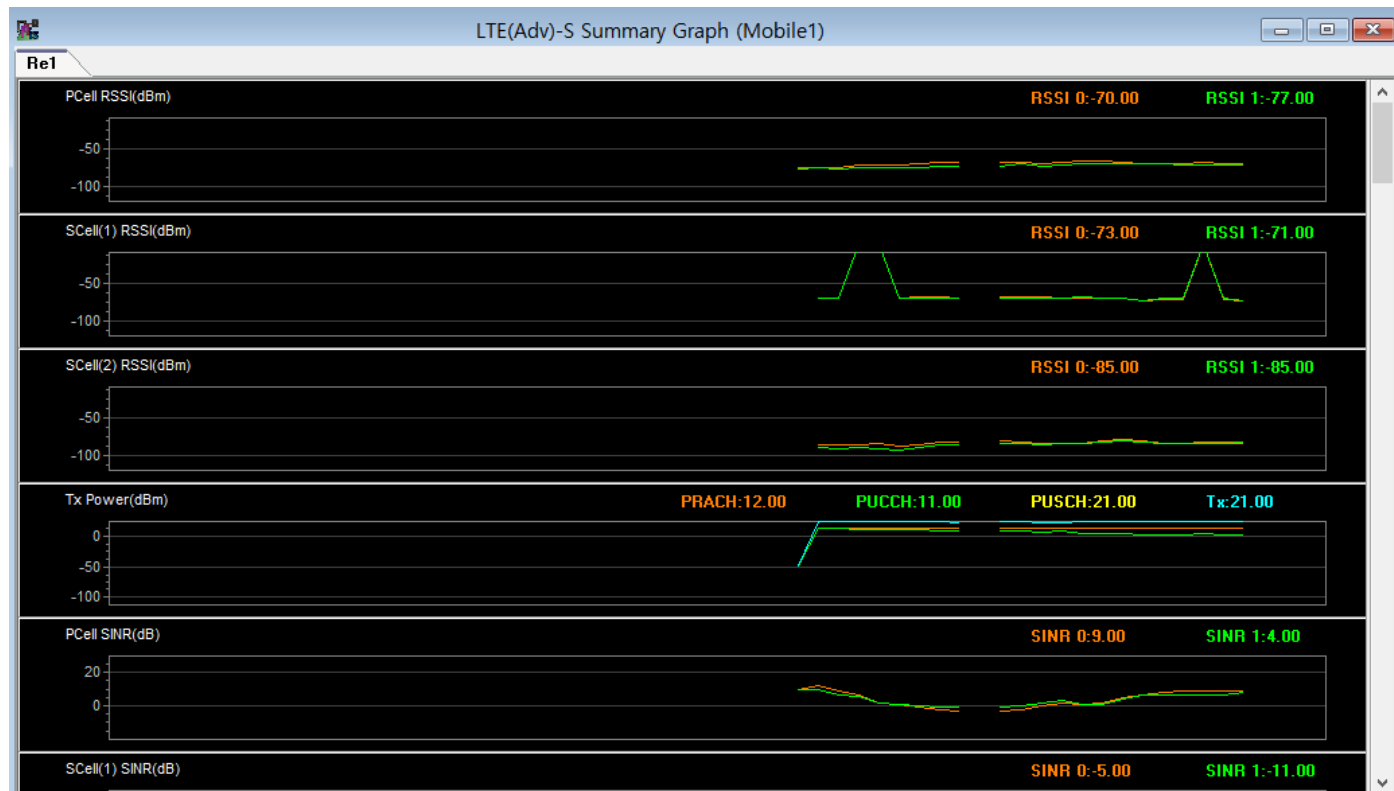
Date of Release: Nov 9, 2015

Addition

Samsung Chipset

Title	CA Parameters in [LTE(Adv)-S Summary Graph] window		
Product	XCAL Series	Requestor	
Chipset	Samsung	CRM#	
Location	[LTE(Adv)-S Summary Graph] window		
Description of Enhancement/Fixes			

Added CA parameters in [LTE(Adv)-S Summary Graph].



Title	CA Parameters in [Real Time Mapping] and [User Defined]		
Product	XCAL Series	Requestor	
Chipset	Samsung	CRM#	
Location	[Real Time Mapping] and [User Defined]		
Description of Enhancement/Fixes			

Added CA Parameters in [Real Time Mapping] and [User Defined].

Time	SCell(1) CQI Metric0	SCell(1) CQI Metric1	SCell(1) RI	SCell(1) PMI	SCell(1) Best PMI	SCell(1) PMI 0	SCell(1) PMI 1	SCell(2) CINR0(LPHY)	SCell(2) CINR1(LPHY)	SCell(2) CQI Metric0
13:02:28	0.00		0.00	0.00	0.00			0.00	0.00	0.00
13:02:29	0.00		0.00	0.00	0.00			0.00	0.00	0.00
13:02:30	0.00		0.00	0.00	0.00			0.00	0.00	0.00
13:02:31	0.00		0.00	0.00	0.00			0.00	0.00	0.00
13:02:32	0.00		0.00	0.00	0.00			0.00	0.00	0.00
13:02:33	1.00		1.00	0.00	0.00	0.00		0.00	0.00	7.00
13:02:34	1.00		1.00	0.00	0.00			2.00	2.00	5.00
13:02:35	1.00		1.00	0.00	0.00	0.00		3.00	2.00	5.00
13:02:36	1.00		1.00	0.00	0.00	0.00		-1.00	-1.00	5.00
13:02:37	4.00		1.00	0.00	0.00	0.00		-1.00	-1.00	6.00
13:02:38	2.00		1.00	0.00	0.00	0.00		-1.00	-1.00	8.00
13:02:39	1.00		1.00	0.00	0.00	0.00		-2.00	-1.00	6.00
13:02:40	1.00		1.00	0.00	0.00	0.00		-1.00	1.00	7.00
13:02:41	3.00		1.00	0.00	0.00	0.00		-1.00	3.00	5.00
13:02:42	3.00		1.00	0.00	0.00	0.00		-1.00	2.00	7.00
13:02:43	3.00		1.00	0.00	0.00	0.00		-2.00	1.00	6.00
13:02:44	1.00		1.00	0.00	0.00	0.00		0.00	3.00	4.00
13:02:45	3.00		1.00	0.00	0.00	0.00		0.00	3.00	6.00

Bug Fix

AutoCall

Title	Outgoing Call of QC Command in CDMA	Call Type	
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed not to dial up once. It was dialed up every 5 seconds when there is Origination while transmitting Qc Command in CDMA

Title	Declaration Error on CDMA Protocol Revision Error	Call Type	
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed to properly recognize Signaling Message during AutoCall. Signaling Message was unable to be recognized during AutoCall due to declaration error of Protocol revision of CDMA.

Title	Call Declaration Error in case of miss-synchronization of Origination and Termination	Call Type	MtoM Call
Product	XCAL Series	Requestor	
Chipset		CRM#	
Location			
Description of Enhancement/Fixes			

Fixed Call Declaration Error in case of miss-synchronization of Origination and Termination.

Version: 3.3.4.93

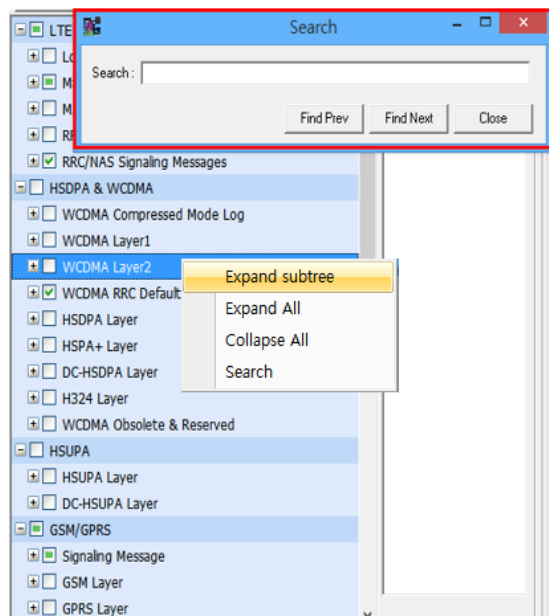
Date of Release: Aug 21, 2015

Addition

Common

Title	Search feature for LogMask, Event Report Message, Extended Mobile Message	Call Type	Common
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Location	LogMask, Event Report Message, Extended Mobile Message		
Description of Enhancement/Fixes			

Added [Search] option for LogMask, Event Report Message, Extended Mobile Message by pressing Ctrl + F button on keyboard or right-click and select [Search] menu.



Change

AutoCall

Title	[Voice → BT Call] Pick Up condition for WCDMA/GSM	Call Type	Common
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Location	For Voice → BT Call test.		
Description of Enhancement/Fixes			

For Voice → BT Call, changed condition of Pick Up for WCDMA/GSM.

As is: CALL CONFIRMED / Call Proceeding / ALERTING

To be: ALERTING

```

10:26:40.948 DL DCCH 2 measurementControl
10:26:40.948 DL DCCH 2 activeSetUpdate
10:26:41.085 UL DCCH 2 activeSetUpdateComplete
10:26:41.123 DL DCCH 2 measurementControl
10:26:41.123 DL DCCH 2 securityModeCommand
10:26:41.123 UL DCCH 2 securityModeComplete
10:26:41.326 DL DCCH 3 downlinkDirectTransfer-SETUP
10:26:41.326 DL CC SETUP
10:26:41.326 UL CC CALL CONFIRMED
10:26:41.326 UL DCCH 3 uplinkDirectTransfer-CALL CONFIRMED
10:26:41.634 DL DCCH 2 radioBearerSetup-uplink = sf64
10:26:41.826 UL DCCH 2 measurementReport-e1d = 242
10:26:42.305 UL DCCH 2 radioBearerSetupComplete
10:26:42.365 UL CC ALERTING
10:26:42.365 UL DCCH 3 uplinkDirectTransfer-ALERTING
10:26:43.883 UL CC CONNECT
10:26:43.884 UL DCCH 3 uplinkDirectTransfer-CONNECT
10:26:44.084 DL DCCH 3 downlinkDirectTransfer-CONNECT ACKNOWLEDGE
10:26:44.084 DL CC CONNECT ACKNOWLEDGE

```

Bug Fix

Common

Title	Read of SW License	Call Type	Common
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	

Location	
Description of Enhancement/Fixes	

Fixed to properly read SW license.

AutoCall

Title	M2E Delay Test	Call Type	Common
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Location			
Description of Enhancement/Fixes			

Fixed to properly conduct M2E Delay test.

Title	App Time Sync encountered due to abnormal Timer Operation	Call Type	Common
Product	XCAL Smart Series	Requestor	
Chipset	Common	CRM#	
Location			
Description of Enhancement/Fixes			

For Smart test, fixed not to encounter App Time Sync due to abnormal operation of timer.

Version: 3.3.4.81

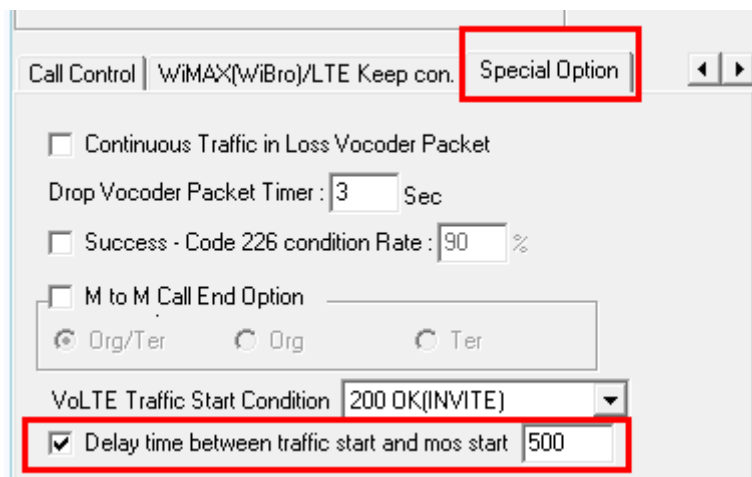
Date of Release: July 24, 2015

Addition

AutoCall

Title	[Delay Time between Traffic Start and MOS Start] option	Call Type	Common
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Location	[AutoCall Scenario Setting] window – [Special Option] tab		
Description of Enhancement/Fixes			

Added an option of [Delay Time between Traffic Start and MOS Start] to configure start of MOS test after Traffic Start.



Title	Declaration of Drop event	Call Type	App – FTP/FTPNT
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Location	[AutoCall Setup] window – [App] tab – [FTP/FTPNT] tab		

Description of Enhancement/Fixes

Added an option of Air Drop Decision to declare Drop event.

Title	Declaration for Pending event	Call Type	Ping, App – Ping
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Location	[AutoCall Setup] window		

Description of Enhancement/Fixes

Added Pending option to declare Pending event for Ping and App – Ping calls.

- **Start Time:** Configure time in sec unit when to start call test after Traffic Start.
- **Number of Timeout:** Configure how many times Timeout is encountered consecutively.

Title	App – Email	Call Type	App – Email
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Location	[AutoCall Setup] window – [App] tab		

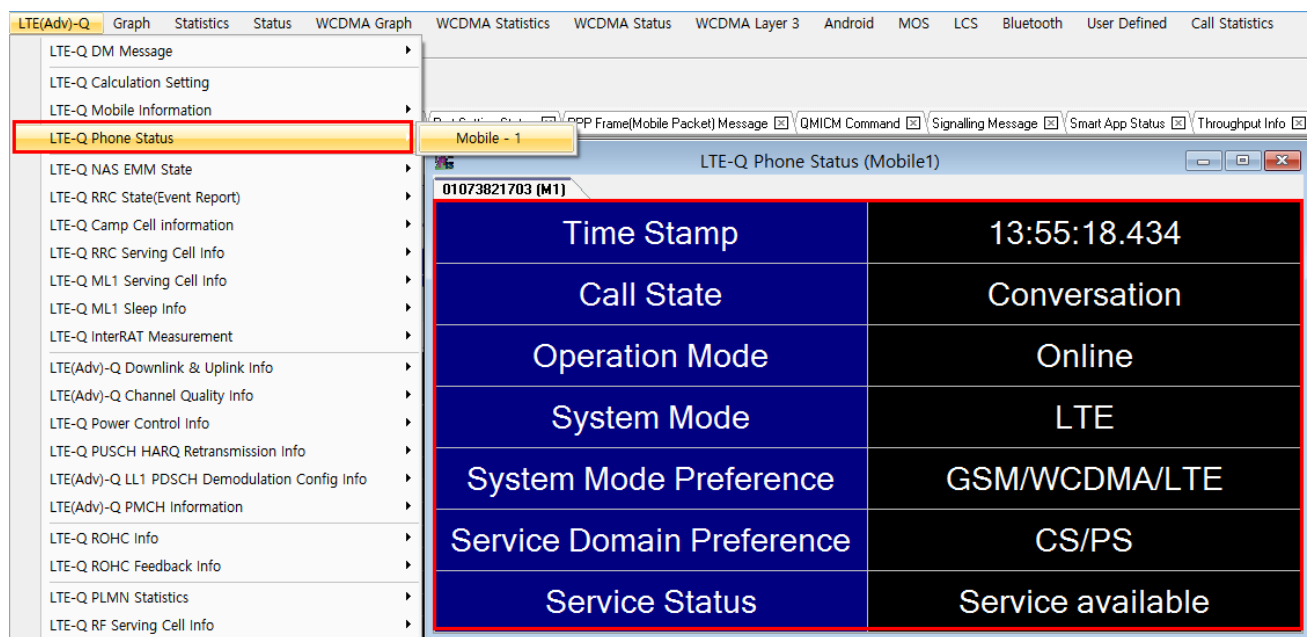
Description of Enhancement/Fixes

Added Email tab for App test.

Qualcomm Chipset

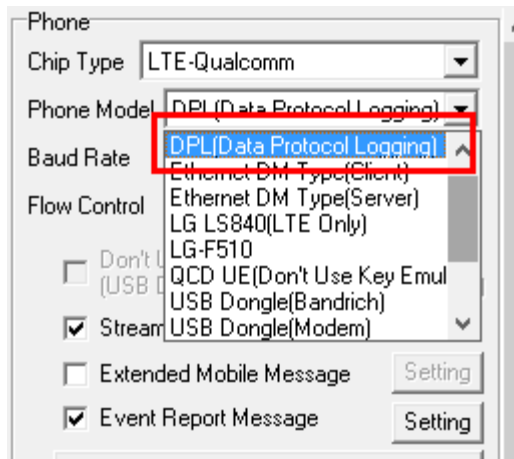
Title	LTE-Q Phone Status		
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Location	[LTE(Adv)-Q] menu – [LTE-Q Phone Status]		
Description of Enhancement/Fixes			

Added [LTE(Adv)-Q] menu – [LTE-Q Phone Status].



Title	DPL(Data Protocol Logging) for Phone Model		
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Location	[Mobile Alias Setting] window		
Description of Enhancement/Fixes			

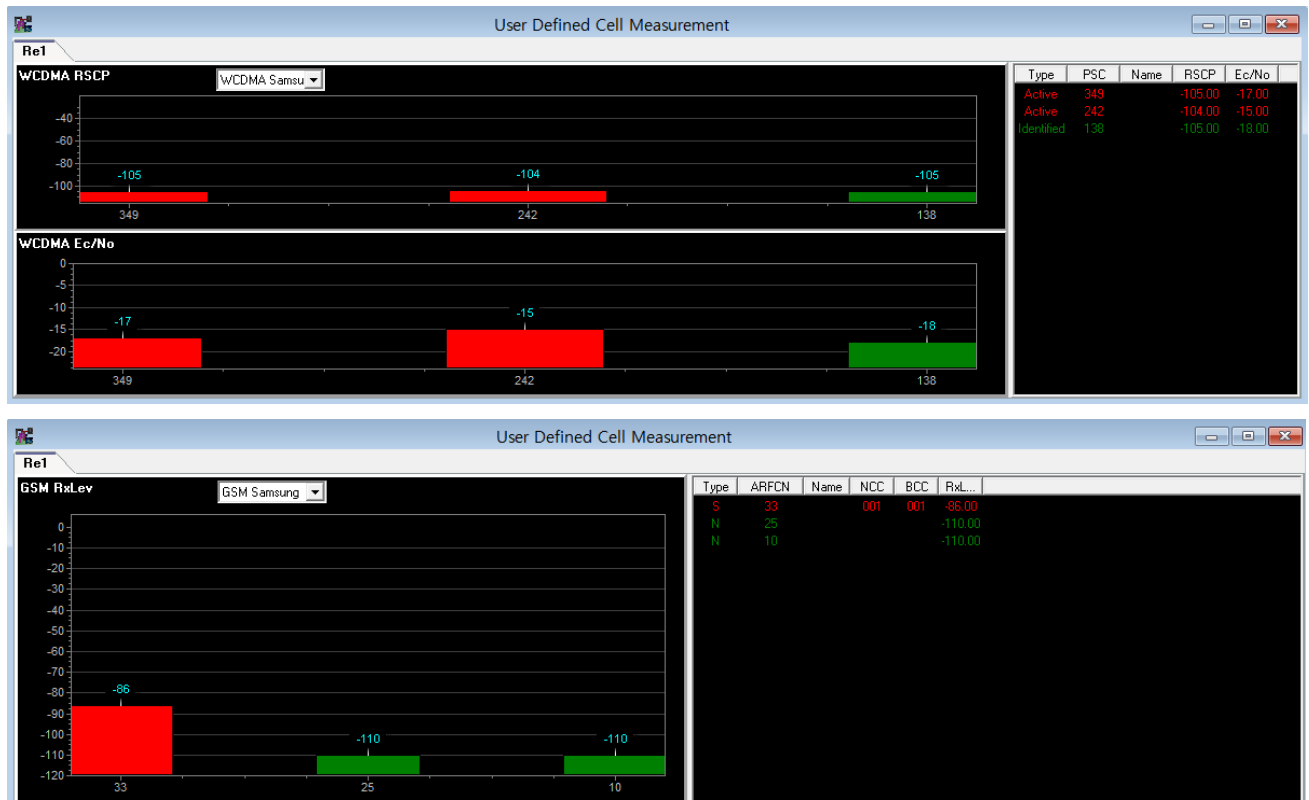
Added DPL (Data Protocol Logging) for phone models for LTE-Qualcomm chipset.



Samsung Chipset

Title	WCDMA, GSM User Defined Cell Measurement		
Product	XCAL Series	Requestor	
Chipset	Samsung	CRM#	
Location			
Description of Enhancement/Fixes			

Added WCDMA, GSM User Defined Cell Measurement.

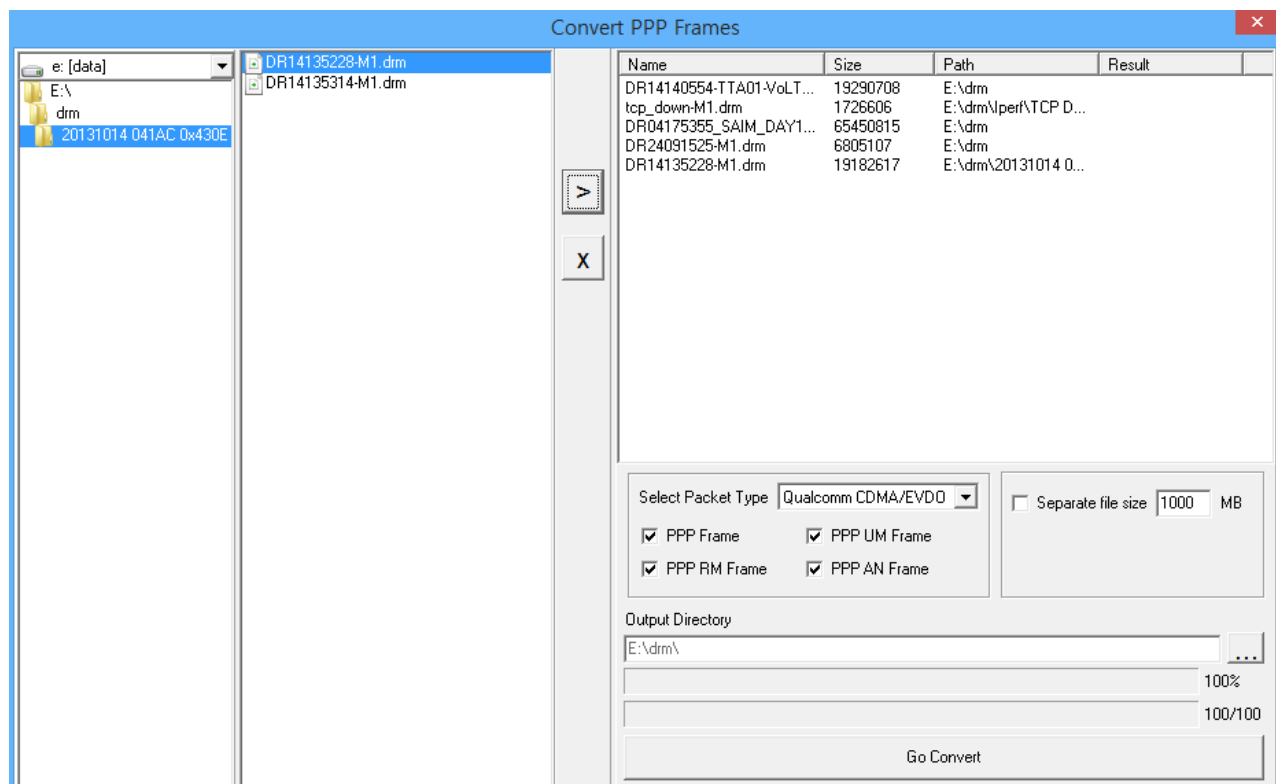


Change

Common

Title	UI in [Convert PPP Frames] window		
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Location	[Convert PPP Frames] window		
Description of Enhancement/Fixes			

Changed UI of [Convert PPP Frame] window to convert files in different directories at once.



AutoCall

Title	Condition of Air Drop	Call Type	
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Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Location			
Description of Enhancement/Fixes			

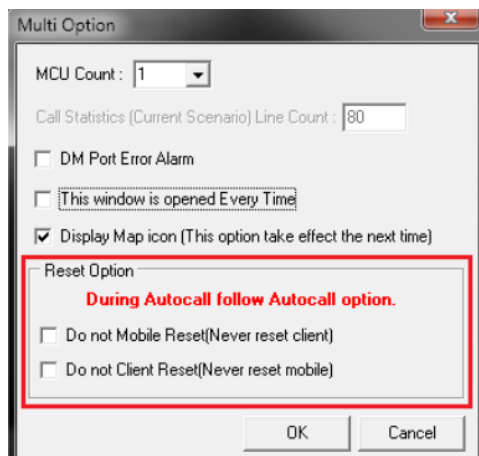
Changed condition of Air Drop.

In the following condition 5 seconds after Air Link Release, to release Air Drop.

- For Upload, Tx App Throughput > 0
- For Download, Rx App Throughput > 0

Title	[Reset Option] in [Multi Option]	Call Type	
Product	XCAL multi series	Requestor	
Chipset	Common	CRM#	
Location			
Description of Enhancement/Fixes			

Changed to remove [Reset Option] in Multi Option for XCAL Multi series products.



Bug Fix

Common

Title	Speed Logging	Call Type	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Location			
Description of Enhancement/Fixes			

Fixed to properly log speed data when Android Mobile is selected for GPS Setting.

KNOWN ISSUE

Version: 3.3.4.72

Date of Release: July 7, 2015

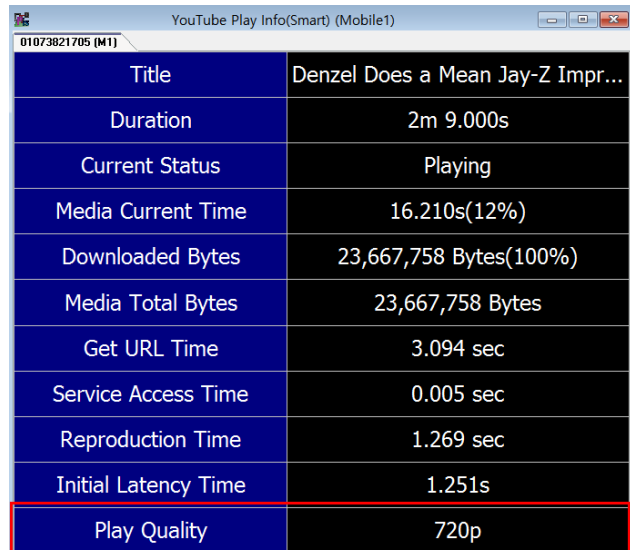
Added

Newly added functions are listed by corresponding function categories.

AutoCall

Title	Play Quality in Youtube Play Info (Smart)	Tech	
Product	XCAL-Smart	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Added Play Quality in Youtube Play Info window.

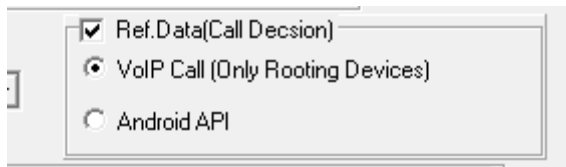


01073821705 (M1)	
Title	Denzel Does a Mean Jay-Z Impr...
Duration	2m 9.000s
Current Status	Playing
Media Current Time	16.210s(12%)
Downloaded Bytes	23,667,758 Bytes(100%)
Media Total Bytes	23,667,758 Bytes
Get URL Time	3.094 sec
Service Access Time	0.005 sec
Reproduction Time	1.269 sec
Initial Latency Time	1.251s
Play Quality	720p

Title	Ref.Data (Call Devices) in Voice Call – Common	Tech	
Product	XCAL-Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

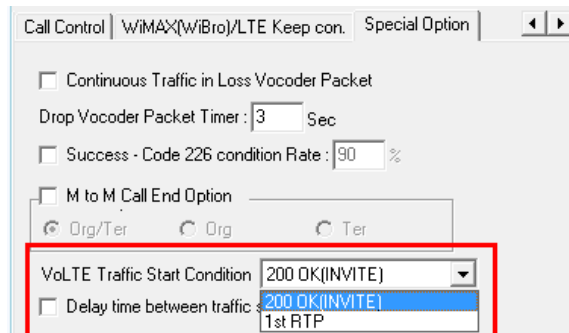
Added Ref.Data (Call Devices) in Voice call – Common.

Call declaration condition can be configured.



Title	VoLTE Traffic Start Condition	Tech	VoLTE
Product	XCAL-Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Added to configure Traffic Start Condition for VoLTE test.

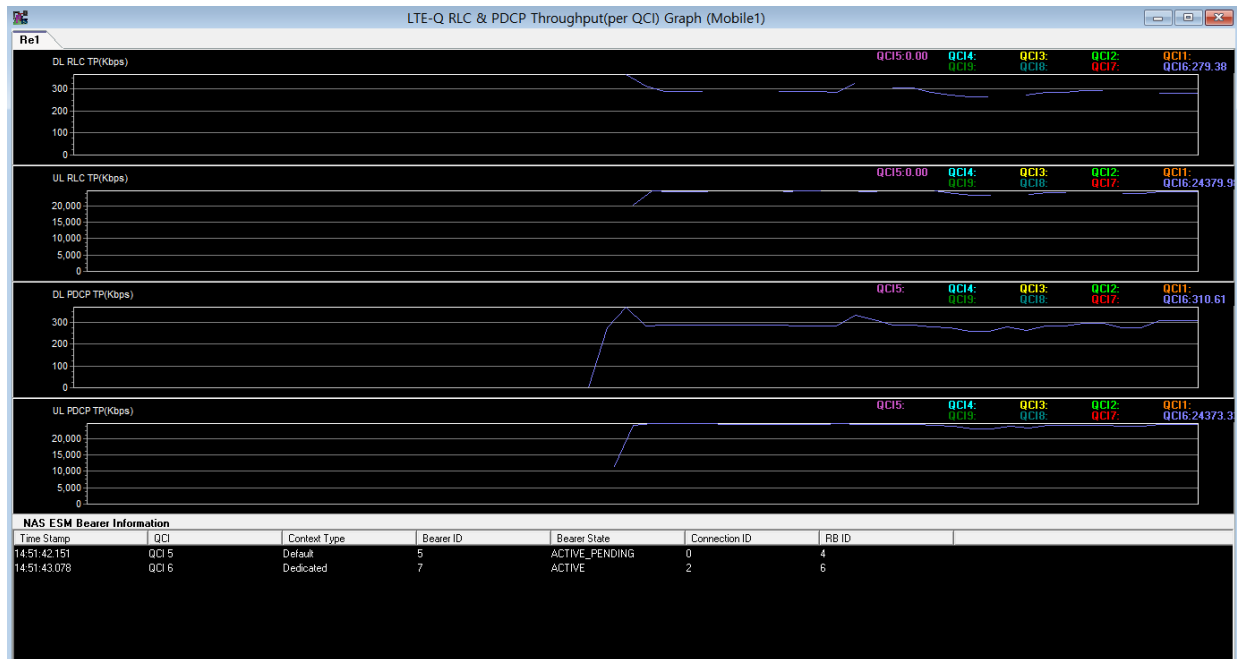


Qualcomm Chipset

Title	LTE-Q RLC & PDCP Throughput (per QCI) Graph	Tech	
Product	XCAL-Series	Requestor	
Chipset	Qualcomm	CRM#	
Description of Enhancement/Fixes			

Added LTE-Q RLC & PDCP Throughput (per QCI) Graph window.

Proprietary & Confidential



Title	AGC Edition 2(0x4176) v1, v2 in WQ Tx AGC Graph window	Tech	
Product	XCAL-Series	Requestor	
Chipset	Qualcomm	CRM#	
Description of Enhancement/Fixes			

Added AGC Edition 2(0x4176) v1, v2 in WQ Tx AGC Graph window.

Samsung Chipset

Title	LTE_RRC_PEER_MSG_INFO(0x52)	Tech	
Product	XCAL-Series	Requestor	
Chipset	Samsung	CRM#	
Description of Enhancement/Fixes			

Added Channel Type of 5x05 in LTE_RRC_PEER_MSG_INFO(0x52) in MCCG in Signaling Message.

Time	Channel	ID	Message
10:11:33.871	BCCH:DL SCH	LTE	LTE systemInformation
10:11:33.967	BCCH:DL SCH	LTE	LTE systemInformation - sib2 - sib2
10:11:34.085	MCCH	LTE	LTE mbsfnAreaConfiguration-r9
10:11:34.095	BCCH:DL SCH	LTE	LTE systemInformation
10:11:34.098	BCCH:DL SCH	LTE	LTE systemInformation - sib3 - sib3
10:11:34.101	BCCH:DL SCH	LTE	LTE systemInformation - sib5 - sib5
10:11:34.104	BCCH:DL SCH	LTE	LTE systemInformation - sib6 - sib6
10:11:34.116	BCCH:DL SCH	LTE	LTE systemInformation
10:11:34.767	DL PCCH	LTE	LTE paging
10:11:36.006	DL PCCH	LTE	LTE paging
10:11:36.273	MCCH	LTE	LTE mbsfnAreaConfiguration-r9
10:11:37.314	DL PCCH	LTE	LTE paging
10:11:37.568	MCCH	LTE	LTE mbsfnAreaConfiguration-r9
10:11:38.594	DL PCCH	LTE	LTE paging
10:11:38.859	MCCH	LTE	LTE mbsfnAreaConfiguration-r9
10:11:39.166	MCCH	LTE	LTE mbsfnAreaConfiguration-r9
10:11:39.904	DL PCCH	LTE	LTE paging
10:11:41.181	DL PCCH	LTE	LTE paging
10:11:42.403	DL PCCH	LTE	LTE paging
10:11:43.696	DL PCCH	LTE	LTE paging
10:11:44.312	MCCH	LTE	LTE mbsfnAreaConfiguration-r9
10:11:45.004	DL PCCH	LTE	LTE paging
10:11:46.303	DL PCCH	LTE	LTE paging
10:11:47.590	DL PCCH	LTE	LTE paging
10:11:48.794	DL PCCH	LTE	LTE paging
10:11:51.403	DL PCCH	LTE	LTE paging
10:11:52.696	DL PCCH	LTE	LTE paging

Changed

Changed functions in this version are listed.

Common

Title	Start Receiving Call(Pick Up) for GSM Incoming Call test	Tech	
Product	XCAL-Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Changed Start Receiving Call (Pick Up) time as follows for GSM incoming call test.

As was: Pick up referring to Setup Message.

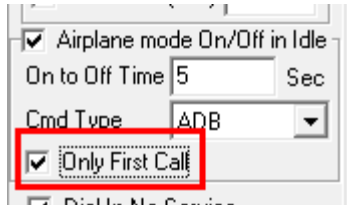
To be: Pick up referring to Alerting operation.

AutoCall

Title	Airplane Mode of first call	Tech	
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Product	XCAL-Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

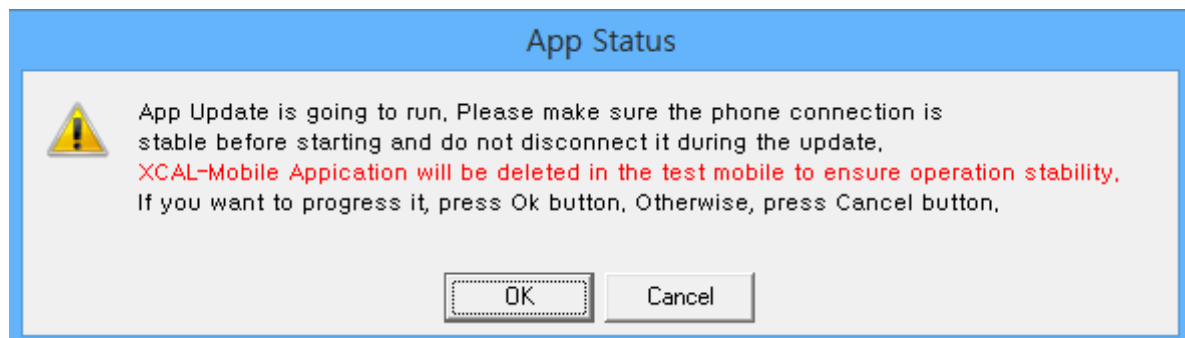
Changed to turn on Airplane mode for the first call when [Only First Call] in [Airplane Mode On/Off in Idle] option is checked.



XCAL-Smart

Title	XCAL-Smart Update	Tech	
Product	XCAL-Smart	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Changed XCAL-Smart update pop-up screen UI in Statistics/Status – Smart App Status.



Fixed

Corrected bugs are listed.

AutoCall

Title	Call Stop after Traffic Start	Tech	
Product	XCAL-Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Fixed not to stop call after traffic start. Call was stopped because technology conversion is wrongly detected.

Title	Declaration of Handover Type for LTE Handover/Load Balancing Info	Tech	
Product	XCAL-Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Fixed to properly declare handover type in LTE Handover/Load Balancing Info.

Scanner

Title	R&S TSMW	Tech	
Product	XCAL-Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Fixed to properly display correct frequency for WCDMA when certain frequency is configured for WCDMA in R&S TSMW.

Title	Wrong Logging for Number of RX Antenna in PCTEL IBFlex	Tech	
Product	XCAL-Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Fixed properly save log according to number of Rx Antenna in PCTEL IBFlex.

Version: 3.3.4.66

Date of Release: Jun 11, 2015

Added

Newly added functions are listed by corresponding function categories.

AutoCall

Title	Iperf Call Result of [Skip Call – No Iperf Result]	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Added a call result of [Skip Call – No Iperf Result] for Iperf test.

[Skip Call – No Iperf Result] is declared when there is no throughput detected during whole call process.

Title	Airplane Mode On/Off Feature	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Added to on/off Airplane mode.

Airplane mode can be on/off only once in Idle section of the first call scenario.

Auto Call

Idle Time : 15

Setup Time : 70

T.Setup Time : 30

☐ Total Setup : 100

TrafficTime : 100

☐ Total Traffic : 0

Call Count : 1

☐ Total Time(sec) : 0

☒ Airplane mode On/Off in Idle

On to Off Time : 5 Sec

Cmd Type : ADB

☒ Only First Call

Qualcomm Chipset

Title	More Parameters for CA	Tech	
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Description of Enhancement/Fixes			

Added the following parameters for CA. The parameters are to be shown in LTE-Q Summary Graph and LTE(Adv)-Q Summary Graph window.

- Timing Advance(us)
- Serv Cell Frame Timing
- LL1 SCC# AGC RSSI(In-band)
- LL1 SCC# AGC RSSI(Total-band)

Title	Reference Signaling Message for Dual SIM	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Added the following reference signaling messages for Dual SIM.

- GSM RR signaling message for DSDS(0x5B2F)
- GPRS SM/GMM OTA signaling message for DSDS(0x5C30)
- MAC signaling messages for DSDS(0x5C26)
- UMTS UE OTA(NAS Signaling) for DDS(0x7B3A)

Title	Special Logging Option (Speed)	Tech	
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Description of Enhancement/Fixes			

Added a logging option of Special Logging Option (Speed).

Scanner

Title	LTE Band for R&S TSMW Scanner	Tech	Scanner
Product	XCAL-Smart	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Added the following LTE Band for R&S TSMW Scanner.

- Band 22, 26, 27, 28, 30, 31, 44

Band	Mode	Center Frequency(MHz)	EARFCN	±
Band 22	FDD	3510.00	6600	€
Band 26	FDD	859.00	8690	€
Band 27	FDD	852.00	9040	€
Band 28	FDD	758.00	9210	€
Band 30	FDD	2350.00	9770	€
Band 31	FDD	462.50	9870	€
Band 44	TDD	703.00	45590	€

Changed

Changed functions in this version are listed.

Common

Title	Converting Time of Convert to PPP Frame	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Changed converting time of Convert to PPP Frame.

Title	ELF File Save Directory	Tech	
Product	XCAL Series (Multi DM)	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

For Multi DM products, changed directory to save ELF file.

As is: C:\Client\ELF\

To be: D:\ELF\

AutoCall

Title	Declaration Condition Changes for Traffic Fail Event	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Changed to declare [Traffic Fail – DNS Query Fail] and [Traffic Fail – Timeout] depending on existence of query message within Traffic Setup section after Traffic Setup Time is completed.

Qualcomm

Title	LTE(Adv)-Q Summary Graph window	Tech	
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Description of Enhancement/Fixes			

Changed to sort out CQI, Subband CQI CW0 & 1, Rank Info, Wideband PMI by carriers in LTE(Adv)-Q Summary Graph window.

Fixed

Corrected bugs are listed.

AutoCall

Title	Binding for Iperf Test via Mobile	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Fixed to conduct binding for Iperf properly while performing Iperf test through mobile.

Title	Skip Call – Iperf No Result	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Fixed to conduct Network Disconnect Request for Skip Call – Iperf No Result while performing AutoCALL test through QMICM.

Qualcomm

Title	RSCP in User Defined Cell Measurement	Tech	
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Description of Enhancement/Fixes			

Fixed to display RSCP in User Defined Cell Measurement window properly.

Title	Uplink RB Num (Mode)	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Fixed to display Uplink RB Num (Mode) properly.

Title	Some Logcode process in PPP Frame Message	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Fixed to process all log codes properly in PPP Frame Message.

XCAL-Smart

Title	Success Event Declaration	Tech	
Product	XCAL-Smart	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Fixed to declare Success event for uploading of APP-HTTP AutoCall test.

Title	Iperf Version Information in Lollipop	Tech	
Product	XCAL-Smart	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Fixed to transfer Iperf version information in Lollipop, Android version properly.

Title	Call Event Logging	Tech	AutoCall – App
Product	XCAL-Smart	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Fixed to properly save Call Event information for App AutoCall test to log file.

Real Time Mapping

Title	Scale of BTS and Map (MapXtreme)	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Fixed to sync scale of BTS and Map information for MapXtreme.

Title	Zoom In feature for MapXtreme	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Fixed to properly operate Zoom In feature for MapXtreme.

Scanner

Title	GPS Data Logging from 2 Scanners	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

When 2 scanners are connected, fixed to save same GPS data from both scanners to log file.

Version: 3.3.4.54

Date of Release: May 11, 2015

Added

Newly added functions are listed by corresponding function categories.

Common

Title	Automatic Detection of SIP Port	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Developed newly to detect SIP port automatically.

AutoCall

Title	Interval between SMTP and POP3	Tech	E-Mail
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

For E-Mail call test, added to configure Interval between SMTP and POP3.

☒ SMTP
 Server:
 Port: 25
 SSL: ☐ ☐ Log SMTP Payload
 UserID:
 Password:
 From:
 To:
 Subject:
 Attach File: 1M
☒ POP3
 Server:
 Port: 110
 SSL: ☐ ☐ Log POP3 Payload
 UserID:
 Password:
☐ Delete Mail
☐ Success(Continuance Traffic Time)
☒ Time interval between SMTP and POP3: 1 Sec
☐ 3GPP QoS and APN

Qualcomm

Title	TCP/IP Dump	Tech	
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Description of Enhancement/Fixes			

Applied TCP/IP Dump feature of LTE-Qualcomm for all Qualcomm chipset type.

- HSDPA-Qualcomm, HSUPA-Qualcomm, WCDMA-Qualcomm

LogMask
 LogMask Alias: LTE Recommend
 Mobile Message
☐ No Msn
☒ TCP/IP Dump

Title	PN Search log packet Edition 2(0x4179) version 3,4	Tech	
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Description of Enhancement/Fixes			

Applied PN Search log packet Edition 2(0x4179) version 3,4.

- Rx Power(List Search), Best PSC(List Search), Best Ec/Io(List Search) in WQ Summary Statistics window.
- RF Info (Best PSC, Best Ec/Io, Active Cell Count in User defined window.

Title	AGC Edition 2(0x4176) version 2	Tech	
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Description of Enhancement/Fixes			

Applied AGC Edition 2(0x4176) version 2.

- Power Tx, Power Rx, Power Rx V2, RSCP in WQ Signal Graph window.

Title	Temporal Analysis Version 2(0x4186) version 8	Tech	
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Description of Enhancement/Fixes			

Applied Temporal Analysis Version 2(0x4186) version 8.

- Finger, Ginger V3, RSCP in WQ Signal Graph window.
- WQ Finger TA Graph Ver2
- WQ PSC Graph
- Comb EcIo(Finger), Com RSCP(Finger) in WQ Summary Statistics window
- Real Time Mapping (User Defined, Export Log File) – Combined Ec/Io

Title	WCDMA Uplink and Downlink Power Control Edition 2(0x4023) version 4,6,7	Tech	
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Description of Enhancement/Fixes			

Applied WCDMA Uplink and Downlink Power Control Edition 2(0x4023) version 4,6,7.

- WQ Signal Graph window

Title	WCDMA Uplink and Downlink Power Control Edition 2(0x4023) version 4,5,6,7	Tech	
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Description of Enhancement/Fixes			

Applied WCDMA Uplink and Downlink Power Control Edition 2(0x4023) version 4,5,6,7.

- WQ TPC History window
- TPC History in WQ Signal Graph window

XCAL-Smart

Title	HTTPS(SSL) for HTTP AutoCall	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Added to support HTTPS(SSL) for HTTP AutoCall test.

Changed

Changed functions in this version are listed.

AutoCall

Title	Play Store Logcat Measurement	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

For measurement with Play Store as Logcat, changed Traffic Start, reference data of Call Result, Reference Time.

- Traffic Start: DownloadQueueImpl.onStart
- Reference Data of Call Result : DownloadQueueImpl.onComplete
- Reference Time: Logcat Time

Version: 3.3.4.49

Date of Release: Apr. 30, 2015

Added

Newly added functions are listed by corresponding function categories.

Common

Title	Setting – Save All Settings	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

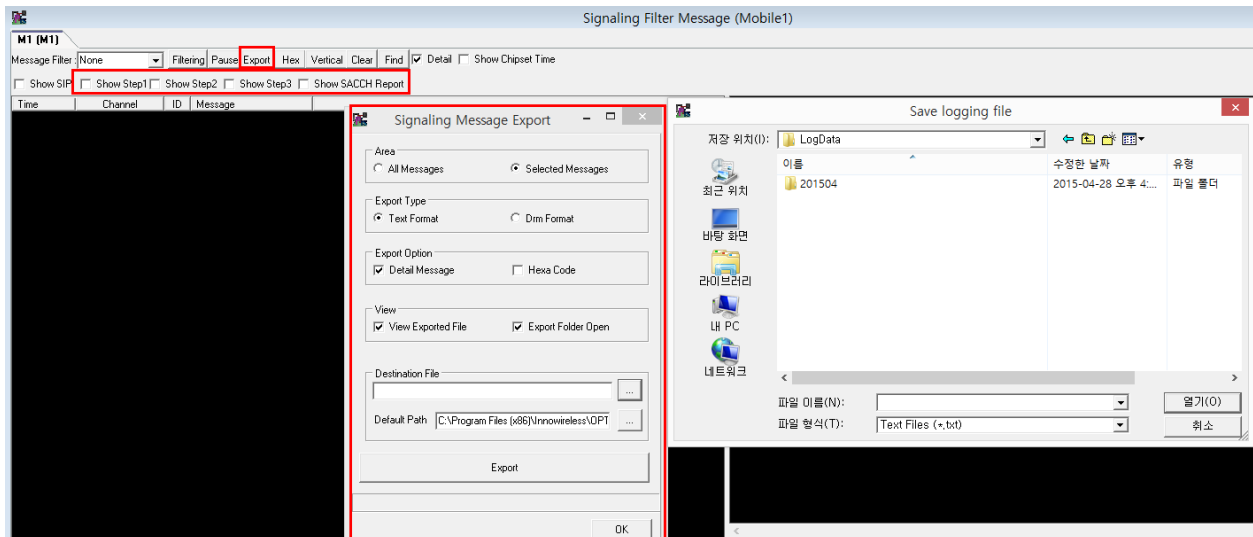
Added to save **Decode As** option while configuring **Setting – Save All Setting**.

Title	Message – Signaling Message	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Added *Show Step1, Show Step2, Show Step3, Show SACCH Report* in **Signaling Filter Message** window.

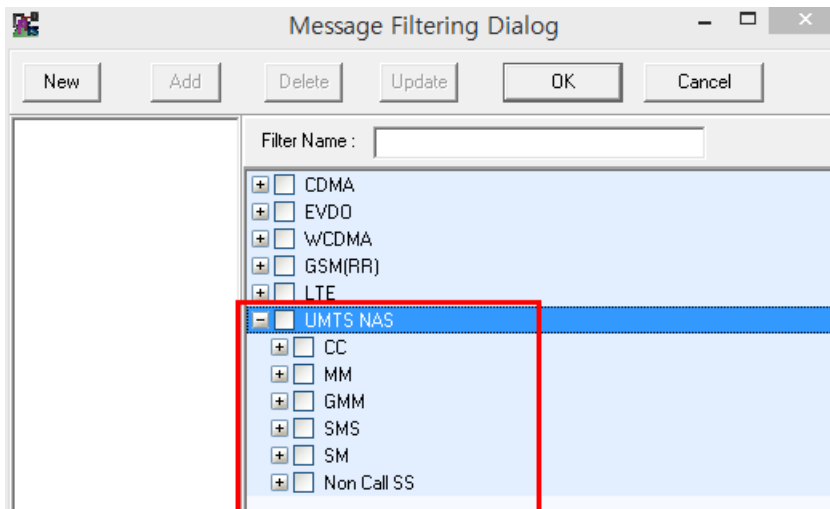
Added *Export* function in **Signaling Message** window.

Proprietary & Confidential



Title	UMTS NAS Tree in Signaling Message Filter	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Added UMTS NAS Tree in Signaling Message Filter.



Title	SFTP Upload in Log File Setting	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

In **Log File Setting** window, added to upload data onto SFTP server after AutoCall test is

completed.

Log File Setting

Log File Path

☒ Save log file at default path C:\Program Files (x86)\Innowireless\OPTis-S\Official\LogData

☐ Save log file at the user defined path

C:\Program Files (x86)\Innowireless\OPTis-S\Official\LogData

☐ Add then default path(Year/Month/Day) at the user defined path

Inbuilding Log File Path

☒ Save log file at default path C:\Program Files (x86)\Innowireless\OPTis-S\Official\NewInbuilding

☐ Save log file at the user defined path

C:\Program Files (x86)\Innowireless\OPTis-S\Official\NewInbuilding

Support Chipset original format

☐ Qualcomm Chipset format(*.mdm)

Log File Name

Naming Method

☒ Default Logging

☐ Based on Date(YYYYMMDD) ☐ Append HHMM(24Hour)

Additional Name

☐ Interface Name

☐ AutoCall Scenario Name

☐ Chip Type

☐ Log File Name Extension

User prefix User postfix

Auto Logging Start

☐ Start logging automatically when Port Setting is completed

AutoCall Pop-up Option

☐ Log file Saving without asking file name confirmation

☐ Manual Logging

☒ Keep Logging ☐ Per File Size MB ☐ Per Time h m

Upload logfile after autocall

☒ Upload logfile after autocall

☒ FTP ☐ SFTP

Host Dir User Password Port

Title	ADB Port Activation and ADB Command	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Added to activate ADB Port and enables operation of ADB Command even after Bluetooth Port setting.

Port Setting

☒ **Mobile1**

Interface **Bluetooth** **<NONE>**

DM Port **COM 6 SAMSUNG Mobile U...** **<NONE>**

Mdm/Net Adpt. **<NONE>** **<NONE>**

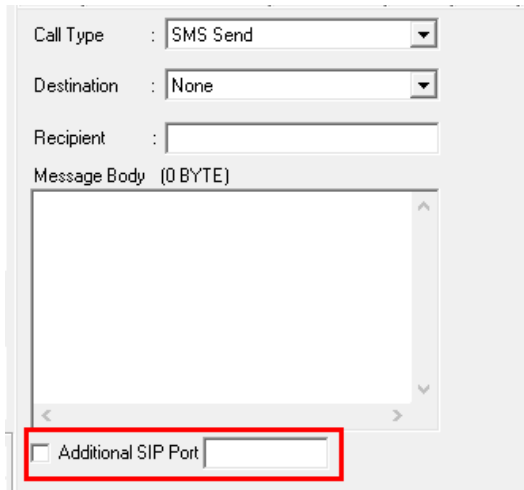
AT Port **<NONE>** **<NONE>**

ADB Device **e3cfbabf** **<NONE>**

AutoCall

Title	Additional SIP Port for SNS	Tech	AutoCall
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Added Additional SIP Port for SNS (Android) AutoCall test configuration.



Call Type : SMS Send

Destination : None

Recipient :

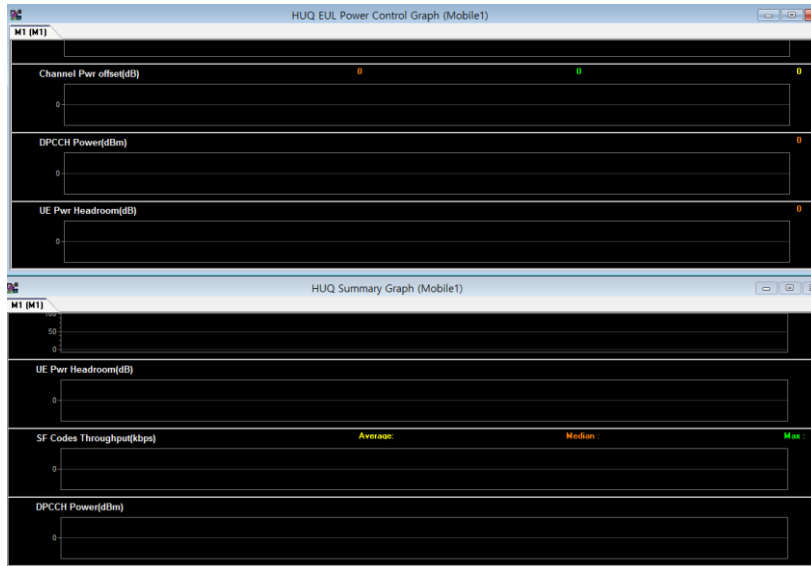
Message Body (0 BYTE)

☐ Additional SIP Port

Qualcomm

Title	HUQ EUL Power Control Graph, HUQ Summary Graph	Tech	
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Description of Enhancement/Fixes			

Added *Multi Carrier EUL E-TFC Restriction(0x435D)* in **HUQ EUL Power Control Graph** window and **HUQ Summary Graph** window.



Title	Qualcomm DMC File New Format	Tech	
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Description of Enhancement/Fixes			

Added to support new format for Qualcomm DMC file.

Samsung

Title	LTE(Adv)-S L1 RF & Sync Info and LTE(Adv)-S Downlink Info, LTE(Adv) Uplink Info	Tech	
Product	XCAL Series	Requestor	
Chipset	Samsung	CRM#	
Description of Enhancement/Fixes			

Added **LTE(Adv)-S L1 RF & Sync Info** window and **LTE(Adv)-S Downlink Info, LTE(Adv) Uplink Info** window.

LTE(Adv)-S L1 RF & Sync Info (Mobile1)				
Rel				
RF Info	Cell index	PCell	SCell(1)	SCell(2)
	RSSI Ant0	-28.00 dBm	-30.00 dBm	-41.00 dBm
	RSSI Ant1	-30.00 dBm	-35.00 dBm	-35.00 dBm
Sync Info	Tx Power	-19 dBm	0 dBm	0 dBm
	PCI	188	88	268
	SFN	696	696	696
	Bandwidth	1.4M	20M	20M
	PHICH Resource	1/6	1	1
	PHICH Duration	Short(Normal)	Short(Normal)	Short(Normal)
	eNB Antenna	1	-	-

LTE(Adv)-S Downlink Info (Mobile1)				
Rel				
Downlink Info	PCell	SCell(1)	SCell(2)	
Time Stamp	20:07:43.387	20:07:43.387	20:07:43.387	
Chipset Time Stamp	3686779488	3686779488	3686779488	
PDSCH BLER	0.00%	0.00%	0.00%	
RB Num	100	100	100	
MCS Level0	28	28	28	
MCS Level1	28	28	28	
Modulation0	64QAM	64QAM	64QAM	
Modulation1	64QAM	64QAM	64QAM	
Code Rate0	0	0	0	
Code Rate1	0	0	0	

LTE(Adv)-S Uplink Info (Mobile1)				
Rel				
Uplink Info				
Time	20:07:43.388	Time Stamp	3686779488	
PUSCH BLER	0.00%	RB Num	-	
MCS Level	-	Modulation	-	
PUSCH Power	-19.00dBm	PUCCH Power	-30.00dBm	
PRACH Power	0.00dBm	SRS Power	-17.00dBm	
Path Loss	72.00dB	Ref Signal Power	15.00dBm	

MOS

Title	Save Wave Stream function	Tech	MOS
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Added **Save Wave Stream** which enables to save sound source recorded in Play Sound function as wav file.

Voice | FTP | TFTP | PPP | Ping | PS VideoCall | CS | VoIP | HTTP | Key Emul | E-M
CDMA | QC-WCDMA | NOKIA | TCC-WCDMA | TD-SCDMA | ManualMos | S-WCDMA | QC-VoLT

Call Type : Setting

Destination :

Dialed Digit :

Call Flow :

Success Time :

Dial Select
☐ Phone
☒ User ☐ ADB ☐ AT

Dial up :

Pick up :

Pick up Count :

Call End :

☐ Alteration

☐ LCG Detection
☐ Play pLCG Detection(Dual tone) ☐ Play LCG-II Detection(Silence)

☐ RTP Timeout sec

☐ Video Phone Call ☐ VoIP Call (Only Rooting Devices)

☐ Additional SIP Port

☐ Send DTMF during Traffic Time ☐ Using Touch Event

☐ Send DTMF in traffic setup Interval

☒ Play Sound

☐ Recording Only ☐ Silence Check ☒ Save Wave Stream

☐ MOS Calculation

[Sound Setting](#)

Changed

Changed functions in this version are listed.

Qualcomm

Title	References for HUQ DL Channel configuration info and HUQ UL Channel configuration info	Tech	
Product	XCAL Series	Requestor	
Chipset	Qualcomm	CRM#	
Description of Enhancement/Fixes			

Changed references for **HUQ DL Channel configuration info** window and **HUQ UL Channel configuration info** window.

EUL DL Channel Configuration log packet(0x4301) -> Multi Carrier EUL DL Channel Configuration(0x4340)

EUL UL Channel Configuration log packet(0x4303) -> Multi Carrier EUL UL Channel Configuration(0x4341)

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HUQ DL Channel Configuration Info (Mobile1)			
Num E-DCH Active Cells		SG Selector	
AGCH Action		AGCH Valid	
STTD (AGCH) used		TTI	
Pri. E-RNTI Valid		Sec. E-RNTI Valid	
Pri. E-RNTI		Sec. E-RNTI	
AGCH OVSF		AGCH-DPCH time offset	

HUQ UL Channel Configuration Info (Mobile1)			
TTI	E-DPCH Info		
R99 DPCH Present		HARQ Type	
MAX EUL SF		HS DPCH Present	
E-DPCH Pwr offset (Aed)		UE MAX SF	
2 index step thresh		Initial Serving Grant	
Max UE Tx Power		3 index step thresh	
		E-DPCH I/Q mapping	
Reference E-TFCI Info.			
Index	Ref. E-TFCI Config	Ref. E-TFCI (TB Size)	Ref. E-DPCH Pwr offset (Aed)
1			
2			
3			
4			
5			
6			
7			
8			

Title	Reference for HUQ Combined L1 & MAC Info	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Change reference for **HUQ Combined L1 & MAC Info** window.

HUQ Combined L1 & MAC Info (Mobile1)		
TTI	E-TFCI Table	No. of E-DCH Cells
PSC	AG(Median)	SGLUPR(Median)
E-TFCI(Median)	SG(Median)	SF Codes(Median)
No. of Samples	Current	Cumulative
Happy		
Retransmission Rate		
DTX		
HICH (Combined)	ACK	
	NACK	
	DTX	
	ACK_NI	
Relative Grant(Combined)	Down	
	Hold	
	Up	
Total TB Size(Bits)	ACK	
	NACK	
	Max Pwr	
Payload Limited by(%)	SG	
	Buffer empty	
Throughput(kbps)		
Avg. SF Codes		
Max SF Codes		
HARQ		
MAC-e Layer		

AutoCall

Title	Traffic Start referring to ACK Message of Tx Packet	Tech	VoLTE
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

For VoLTE test, changed to commence Traffic Start taking into account ACK message of Tx Packet.

Title	POP3 List response	Tech	E-Mail
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Changed to include POP3 List response for E-Mail test.

```

15:16:27.404 Idle Start 1
15:16:32.404 Setup Start
15:16:32.404 Call Start 1
15:16:32.473 Network Cable Connected
15:16:32.501 Traffic Start
15:16:33.524 POP3 Connect
15:16:33.528 POP3 User
15:16:33.528 POP3 Pass
15:16:33.598 POP3 List
15:16:33.599 POP3 Delete
15:16:33.610 POP3 Quit
15:16:33.705 POP3 Disconnect
15:16:34.716 POP3 Connect
15:16:34.720 POP3 User
15:16:34.722 POP3 Pass
15:16:34.787 POP3 List
15:16:34.789 POP3 Quit
15:16:34.790 POP3 List = 0
15:16:34.790 POP3 Disconnect
15:16:35.792 POP3 Connect
15:16:35.798 POP3 User
15:16:35.799 POP3 Pass
15:16:35.859 POP3 List
15:16:35.860 POP3 Quit
15:16:35.860 POP3 List = 0
15:16:35.860 POP3 Disconnect
15:16:36.869 POP3 Connect
15:16:36.874 POP3 User
15:16:36.876 POP3 Pass
15:16:36.942 POP3 List
15:16:36.944 POP3 Quit
15:16:36.944 POP3 List = 0

```

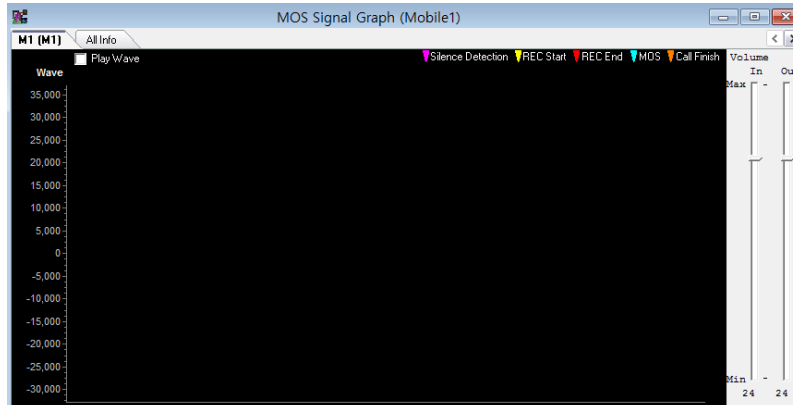
Title	Deactivation of Delete Mail for POP3	Tech	E-Mail
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Changed to deactivate Delete Mail when only POP3 is selected for E-Mail test.

MOS

Title	MOS Signal Graph Display	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

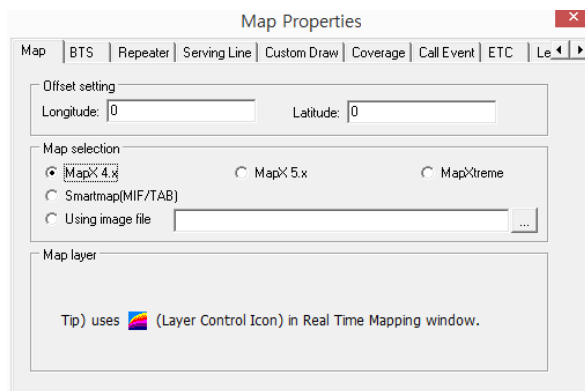
Changed to display MOS Signal Graph window only when there is relevant data.



Real-Time Mapping

Title	Deletion of Map Manager to use MapX File button for MapX 4.x and MapX 5.x	Tech	Map
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Changed to delete **Map Manager to use MapX File** button for **MapX 4.x** and **MapX 5.x**.



Fixed

Corrected bugs are listed.

Common

Title	Filter in PPP Frame Message	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Fixed to operate Filter function properly in **PPP Frame Message** window.

AutoCall

Title	Repeat 2nd Call during the 1st Call	Tech	Multi RAB
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Fixed to operate Repeat 2nd Call during the 1st Call properly for Multi RAB test.

1st Call

1st Call Type : Voice CS CALL con

Type	Idle	Setup	T.Setup	Traffic	Total
Common Org	5	20	30	500	1
Destination	Dialed Digit	Dial Up	Pick Up	Call End	
None	114	ADB	ADB	ADB	
Test Case	CSFB				Save

2nd Call

2nd Call Type : APP app ftp

Type	Idle	Setup	T.Setup	Traffic	Total
App FTP DN	5	20	20	1	1
URL		Get	Put		
113.217.230.29/		200.000	200m		
Test Case	None				Save

☐ Progress the 2nd Call for the 1st Call Setting time.
☒ Repeat 2nd Call during the 1st call.
☐ Release after LCP Terminate at the same time, Voice Call is End)
☐ Disable mobile packet log for XCAL-Smart(Qualcomm only)
 Test Type : ☒ Ping ☐ Web browsing
 Input the Test URL : http://www.google.com

Title	Incoming SMS Message for LTE NAS	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Fixed to process SMS properly for Incoming SMS message for LTE NAS.

Title	elf after HTTP Web Browser	Tech	
Product	XCAL Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Fixed not to occur elf after HTTP Web Browser.

Version: 3.3.4.39

Date of Release: Apr. 07, 2015

Added

Newly added functions are listed by corresponding function categories.

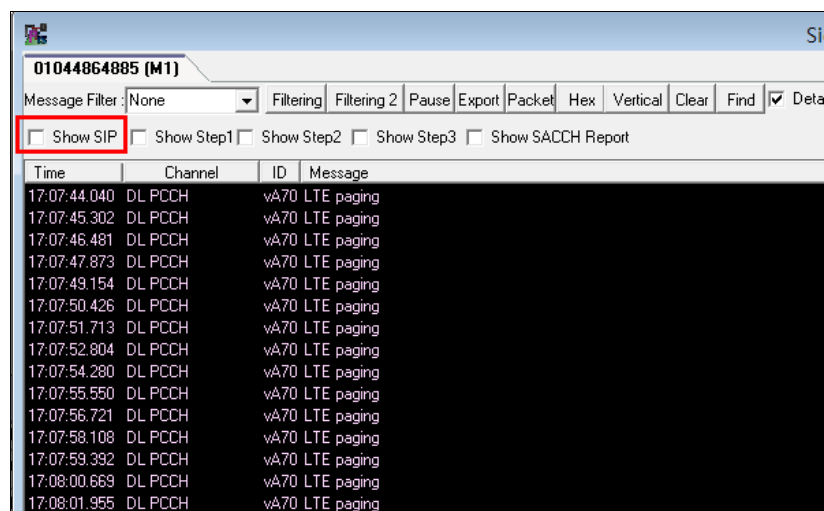
Common

Title	Show SIP option in Signaling Message window	Tech	
Product	XCAL-Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Added an option of **Show SIP** in **Signaling Message** window.

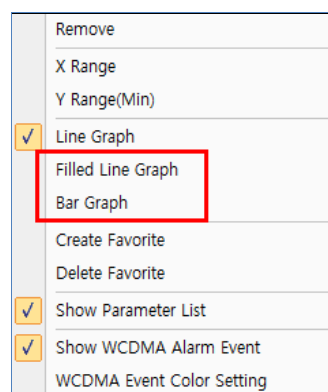
Show SIP option displays SIP status information in **Signaling Message** window.

- Select the checkbox of **Show SIP** at the upper right corner of **Signaling Message** window, and **SIP Status** is displayed in Message.

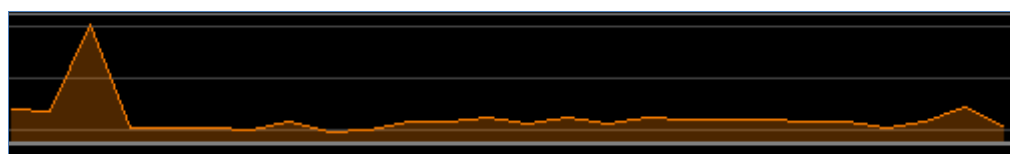


Title	User Defined Graph window	Tech	
Product	XCAL-Series	Requestor	
Chipset	Common	CRM#	

Added [**Filled Line Graph**] and [**Bar Graph**] for mouse menu in **User Defined Graph** window.



[Filled Line Graph]



[Bar Graph]



Title	Export to SCV in Call Statistics (All Scenario) window	Tech	
Product	XCAL-Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Added to configure file name and directory while exporting data to *.csv.

- **Call Statistics (All Scenario)** window – **Export to SCV** button

Title	Generation of separate Packet file	Tech	
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	while generating logging file		
Product	XCAL-Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

To make log file size lighter and make operation faster, XCAL separates packet data from logging file.

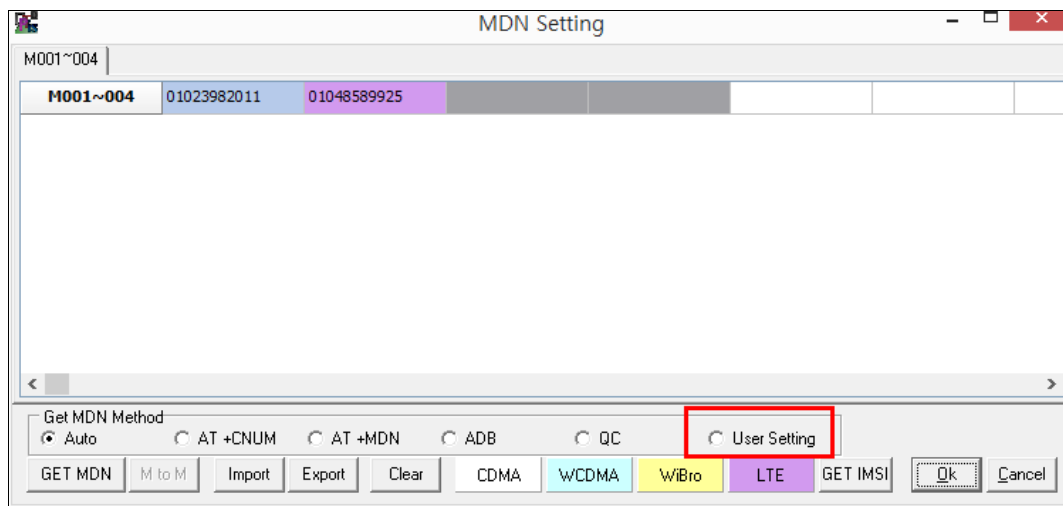
Use the option of [**Separate TCP/IP message from drm files**].

- Menu bar – **Setting** – **Log File Setting** window – **Log File Size Reduction** tab – **Separate TCP/IP message from drm files**.

Title	MDN Setting	Tech	
Product	XCAL-Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Added item of [**User Setting**] in **MDN Setting** window.

1. Select the checkbox of **User Setting**.
 2. Double-click dial # field and enter dial number to manually configure.
- Menu bar – **Setting** – **MDN Setting** window.



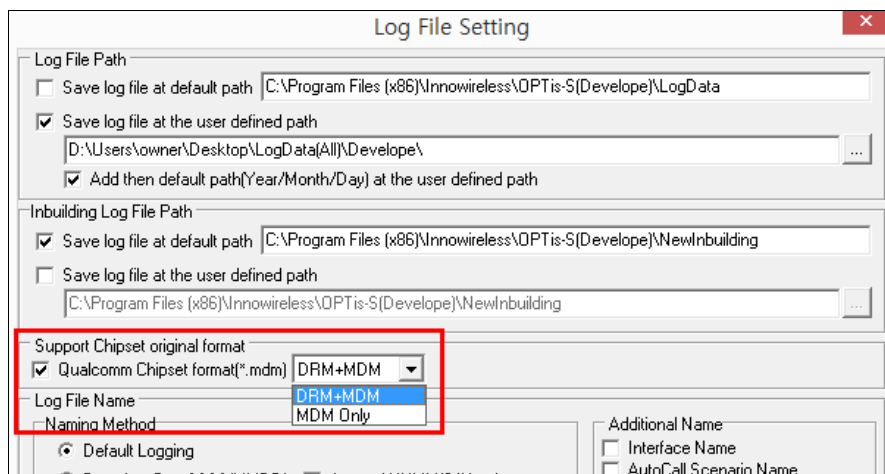
Qualcomm Chipset

Title	Log File Save Format for Qualcomm Chipset	Tech	
Product	XCAL-Series	Requestor	
Chipset	Qualcomm	CRM#	
Description of Enhancement/Fixes			

Added log file save format for Qualcomm chipset.

- drm + mdm
- mdm only

- Menu bar – **Setting – Log File Setting**



Title	Version 7 for 0xB193 subpacket 25	Tech	
Product	XCAL-Series	Requestor	
Chipset	Qualcomm	CRM#	
Description of Enhancement/Fixes			

Applied Version 7 for subpacket 25 log of 0xB193 LTE ML1 Serving Cell Measurement Result.

Title	Version 4 for 0xB195 subpacket 31	Tech	
Product	XCAL-Series	Requestor	
Chipset	Qualcomm	CRM#	
Description of Enhancement/Fixes			

Applied Version 4 for subpacket 31 log of 0xB195 LTE ML1 Connected Mode Neighbor Measurement Request/Response.

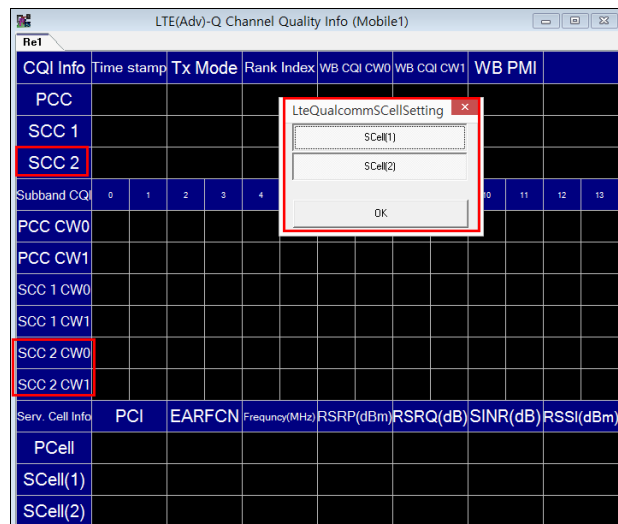
Title	Version 4 for 0xB192 subpacket 27	Tech	
Product	XCAL-Series	Requestor	
Chipset	Qualcomm	CRM#	
Description of Enhancement/Fixes			

Applied Version 4 for subpacket 27 log of 0xB193 LTE ML1 Idle Neighbor Cell Measurement Request/Response.

LTE(Adv)-Q Chipset

Title	LTE(Adv)-Q Channel Quality Info	Tech	
Product	XCAL-Series	Requestor	
Chipset	LTE(Adv)-Q	CRM#	
Description of Enhancement/Fixes			

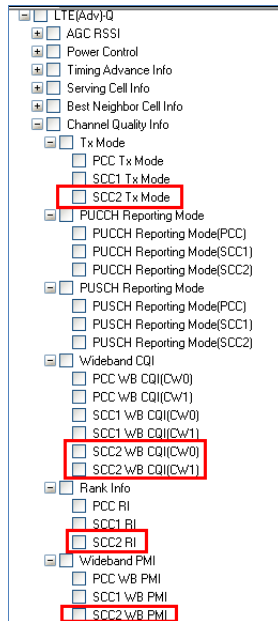
Added **SCC2** in **LTE(Adv)-Q Channel Quality Info** window.



Title	LTE(Adv)-Q Channel Quality Info	Tech	
Product	XCAL-Series	Requestor	
Chipset	LTE(Adv)-Q	CRM#	

Description of Enhancement/Fixes

Added **SCC2** for parameter tree in **User Defined (Graph, Table, Summary Info)** windows.

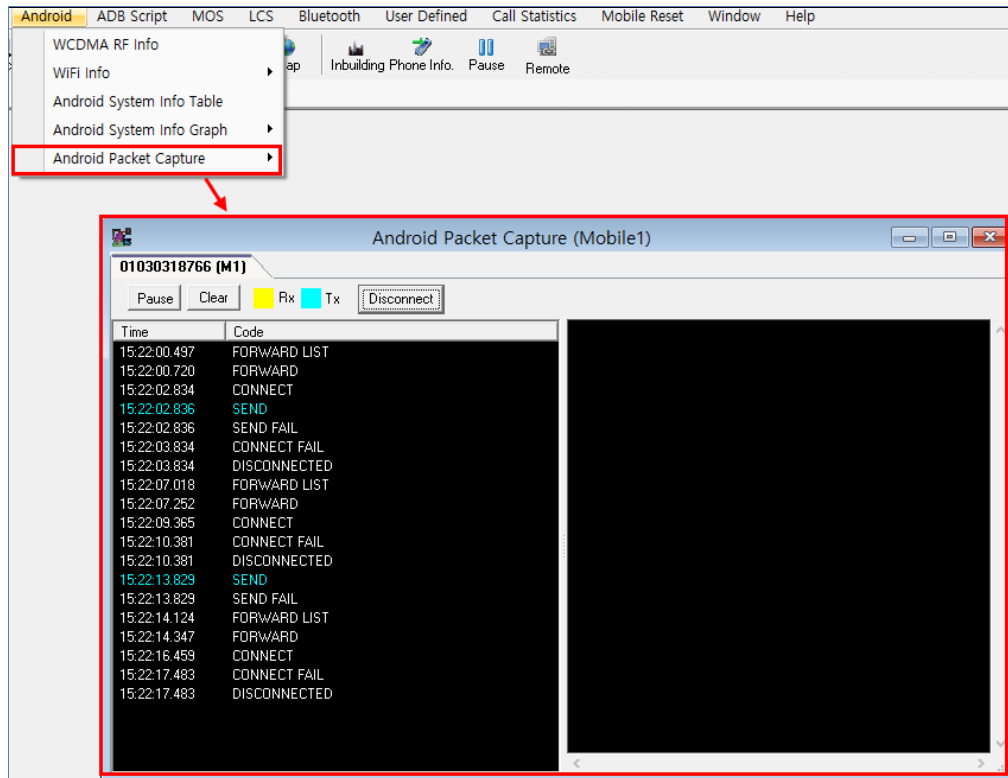


Android

Title	Android Packet Capture	Tech	
Product	XCAL-Series	Requestor	
Chipset	Android	CRM#	
Description of Enhancement/Fixes			

Added **Android Packet Capture** window.

- **Menu bar – Android – Android Packet Capture**



VoLTE

Title	VoLTE Declaration in Call Statistics (Current Scenario) window	Tech	VoLTE
Product	XCAL-Series	Requestor	
Chipset	Android (Smart Phone)	CRM#	
Description of Enhancement/Fixes			

Added declaration of VoLTE event in **Call Statistics (Current Scenario)** window using ADB API for the chipset of Android (Smart Phone).

■ Android Voice State

- Offhook
- Ring
- Idle

13:28:27.193	Idle Start	1
13:28:30.207	Setup Start	
13:28:30.208	ADB Command Dial Up	
13:28:30.221	Call Start Org	1
13:28:31.211	Android Voice State - Offhook	
13:28:31.211	Call Connected	
13:28:31.211	Traffic Start	VoLTE
13:28:46.223	Call Success	
13:28:46.223	Release Start	
13:28:47.223	ADB Command Call End	
13:28:48.010	Android Voice State - Idle	
13:28:48.223	ADB Command Call End	
13:28:56.739	Release End	
13:28:57.015	Call End	

AutoCall

Title	MOS Setting window	Tech	MOS
Product	XCAL-Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Added algorithm and sound source selection field in **MOS Setting** window.

■ AutoCall Setup window – MOS Calculation – MOS setting

MOS Setting

Count
MOS Count: 3
☐ Using MOS Count for Traffic Time

Measurement method
Type: Half Duplex(Downlink/Uplink) ☐ Once
User defined GPS time sync term: +4 ☐ Continuous Call in CBQ

File / Algorithm

VoLTE
Original File: TTA-M2.wav ☐ Different Play File from Org
Play File: TTA-M2.wav
Algorithm: PESQ MOS P.862-1
☐ Add algorithm: PESQ MOS P.862

3G/2G
Original File: TTA-M2.wav ☐ Different Play File from Org
Play File: TTA-M2.wav
Algorithm: PESQ MOS P.862-1
☐ Add algorithm: PESQ MOS P.862

Play Waiting Time(ms): 0
☐ Save Wave Stream Wave Save Threshold: 3.00 ☐ Record Phone Calls

Volume Setting
Tx Volume: 32 (100.0%)
Rx Volume: 28 (87.5%)

Android Mobile Volume Setting
☐ Android Mobile Volume Calibration Call
MAX Volume Level Count: 1
☐ TX Volume Calibration Call
Tx Volume: max: 32 (100.0%) min: 1 (3.1%)

New MPM Detail Volume
Tx Volume: 0 (100.0%) Rx Volume: 0 (88.2%)

Ok Cancel

Title	Headset Hook for Voice AutoCall	Tech	Voice
Product	XCAL-Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Added an option of [**Headset Hook**] for **Pick Up** methodology using ADB Command.

Headset Hook: Incoming call is to be received pressing the center button of headset controller.

■ **AutoCall Setup window – Voice tab – Dial Select**

Title	Call Manager	Tech	
Product	XCAL-Series	Requestor	
Chipset	CDMA, QC-WCDMA, QC-VoLTE	CRM#	
Description of Enhancement/Fixes			

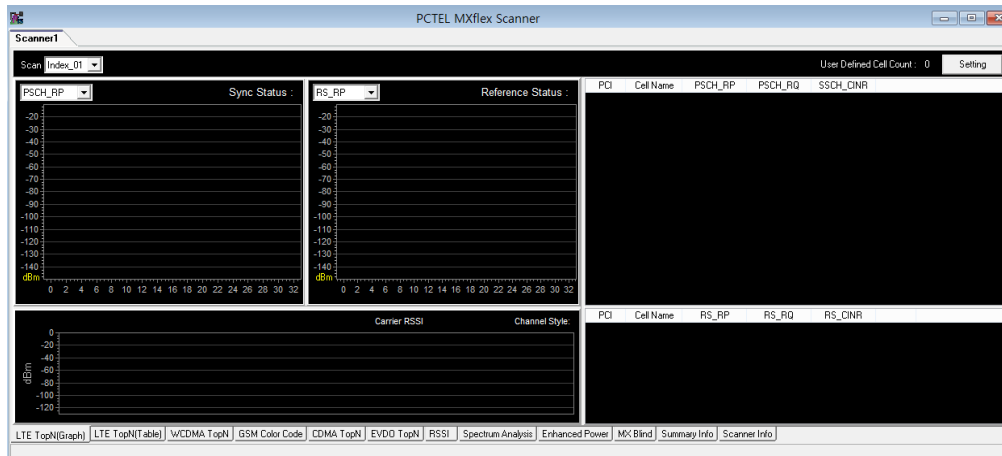
Added a call end option of **Call Manager** in **AutoCall Setup** window – **Dial Select**.

Scanner

Title	MXFlex Scanner	Tech	Scanner
Product	XCAL-Series	Requestor	
Chipset		CRM#	

Description of Enhancement/Fixes

Added MXFlex Scanner.



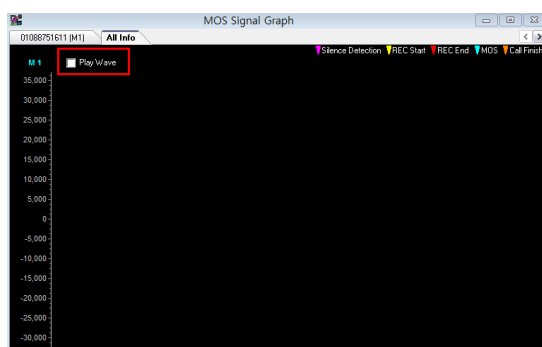
MOS

Title	MOS signal Graph window	Tech	MOS
Product	XCAL-Series	Requestor	
Chipset		CRM#	

Description of Enhancement/Fixes

Added a checkbox of [**Play Wave**] in **All Info** tab in **MOS Signal Graph** window.

Play Wave function plays a wave file in PC.



Changed

Changed functions in this version are listed.

Common

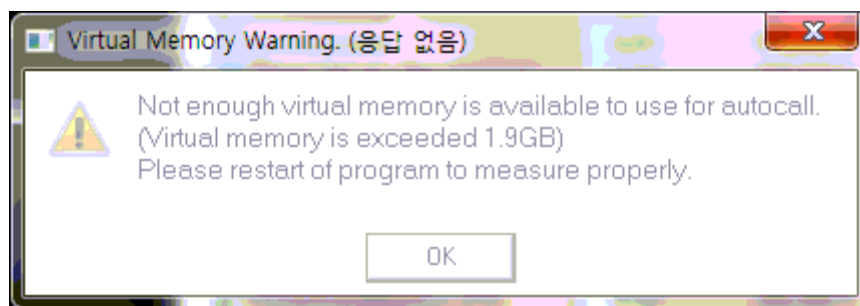
Title	Automatic Port Setting Default value	Tech	
Product	XCAL-Series	Requestor	
Chipset	Qualcomm, Samsung	CRM#	
Description of Enhancement/Fixes			

Changed the default value of automatic **Port Setting**.

- **Qualcomm:** LTE-Qualcomm VA_Default → LTE-QC_Smart_Default
- **Samsung:** LTE-Samsung_Default → LTE-SS_Smart_Default

Title	String Change in Alarm window for Virtual Memory	Tech	
Product	XCAL-Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

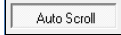
Enhanced the string in the alarm window for Virtual Memory.

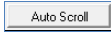


Title	Auto Scroll button in Call Statistics (Current Scenario) window	Tech	
Product	XCAL-Series	Requestor	
Chipset	Common	CRM#	

Description of Enhancement/Fixes

Changed the operation of **Auto Scroll** button in **Call Statistics (Current Scenario)** window.

■ Clicked: Operation activated 

■ Unclicked: Operation inactivated. 

Title	LTE-Q RRC State (Event Report)	Tech	
Product	XCAL-Series	Requestor	
Chipset	LTE-Q	CRM#	

Description of Enhancement/Fixes

Enhanced to memorize the related values when **LTE-Q RRC State** window is not opened, and apply the corresponding values when the window is opened.

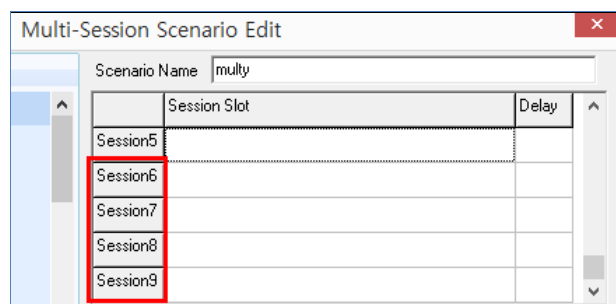
AutoCall

Title	Number of Session for Multi Session	Tech	Multi Session
Product	XCAL-Series	Requestor	
Chipset	Common	CRM#	

Description of Enhancement/Fixes

Added four more sessions for Multi Session scenario.

- **AutoCall Scenario Setting** window



Title	Call Release at Total Time	Tech	
Product	XCAL-Series	Requestor	
Chipset	Common	CRM#	

Description of Enhancement/Fixes

Changed to release the call at the Total Time configured time.

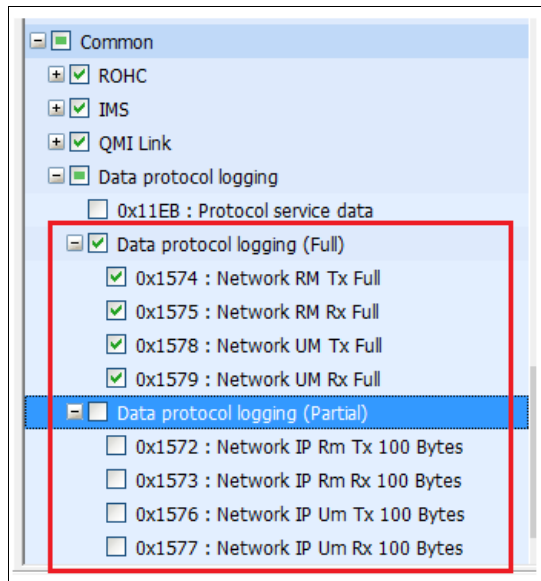
When Total Time is configured as 2 second, the call is released 2 seconds after the call start.

Title	Application of LogMask setting depending on AutoCall Type when Mobile = LG-F510 (G Flex2)	Tech	
Product	XCAL-Series	Requestor	
Chipset	Qualcomm	CRM#	

Description of Enhancement/Fixes

Changed to apply LogMask setting depending on AutoCall type when mobile type is configured to LG-F510(G Flex 2).

- When selecting something in the Full tree.
 - VoLTE/Common of Voice: Applying all parameters in **Full** tree.
 - App/Data: Unchecking both **Full** and **Partial** tree.
- When selecting something in the **Partial** tree.
 - VoLTE/Common: Applying all parameters in **Full** tree.
 - Data: Unchecking both **Full** and **Partial** tree.
 - App: Applying all parameters in **Partial** tree.
- When selecting both Full and Partial tree.
 - VoLTE/Common: Applying all parameters in **Full** tree.
 - Data: Unchecking both **Full** and **Partial** tree.
 - App: Applying all parameters in **Partial** tree.
- When selecting Not full and Partial tree.
 - VoLTE/Common: Applying all parameters in **Full** tree.
 - Data: Unchecking both **Full** and **Partial** tree.
 - App: Unchecking both **Full** and **Partial** tree.

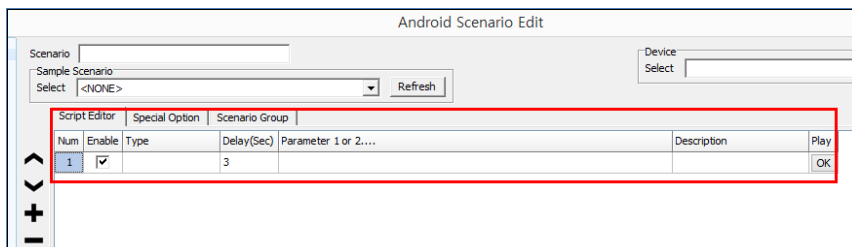


Title	Traffic Start at ACK	Tech	
Product	XCAL-Series	Requestor	
Chipset	VoLTE	CRM#	
Description of Enhancement/Fixes			

When 200 OK is lost, DM declares ACK as Traffic Start.

Title	Android Scenario Edit window	Tech	
Product	XCAL-Series	Requestor	
Chipset	Android	CRM#	
Description of Enhancement/Fixes			

Enhanced to configure **Parameter** field in **Android Scenario Edit** window with 200 English characters.



Title	Recipient in SMS(Android)	Tech	
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Product	XCAL-Series	Requestor	
Chipset	Android	CRM#	
Description of Enhancement/Fixes			

Enhanced Recipient entry in SMS(Android) tab in AutoCall Setup window.

When configuring a Destination mobile, Recipient is configured automatically by bringing mobile number stored in MDN Info.

App: SMS(Android) | ADB Script

Call Type: SMS Send

Destination: Mobile1

Recipient: 01044864885

Message Body: (12 Byte)

Fixed

Corrected bugs are listed.

Common

Title	Overlaid SCell in LTE(Adv)-Q SCell State(Event Report) window	Tech	
Product	XCAL-Series	Requestor	
Chipset	LTE(Adv)-Q	CRM#	
Description of Enhancement/Fixes			

Fixed not to overlay SCell in **LTE(Adv)-Q SCell State(Event Report)** window.

Title	Size Adjustment of LTE(Adv)-Q Cell Measurement Graph window	Tech	
Product	XCAL-Series	Requestor	
Chipset	LTE(Adv)-Q	CRM#	

Description of Enhancement/Fixes

Fixed to enable to adjust the detailed size of **LTE(Adv)-Q Cell Measurement Graph** window.

Title	Status color for Port Connection	Tech	
Product	XCAL-Series	Requestor	
Chipset	LTE-Samsung (FDD)	CRM#	
Description of Enhancement/Fixes			

Fixed to show proper status color at **Status** bar at the left lower corner of XCAL series program window when Port is improperly connected or not connected (Waiting section).

AutoCall

Title	Call Statistics (All Scenario) for Voice Call	Tech	
Product	XCAL-Series	Requestor	
Chipset	Voice	CRM#	
Description of Enhancement/Fixes			

Fixed not to show 0 for Type in **Call Statistics (All Scenario)** window when call type is Voice.

Title	Improper operation of Allow Dormant State option	Tech	
Product	XCAL-Series	Requestor	
Chipset	VoLTE	CRM#	
Description of Enhancement/Fixes			

Allow Dormant State option used to be improperly operated while processing VoLTE AutoCall test with XCAL-Smart connected.

- **AutoCall Setup** window – **Dormant Mode** section – **Allow Dormant State** option

Title	Improper RTT display for Ping AutoCall in Modem	Tech	
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Product	XCAL-Series	Requestor	
Chipset	Ping	CRM#	
Description of Enhancement/Fixes			

Fixed to display RTT value properly when Ping AutoCall test is performed in Modem.

Title	Call End for ADB Script – PLMN Searching AutoCall	Tech	
Product	XCAL-Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Fixed to properly perform Call End operation after Release Start for ADB Script – PLMN Searching AutoCall test.

Fixed not to perform Client Reset.

Title	Exploded Virtual Memory for Video Call test	Tech	
Product	XCAL-Series	Requestor	
Chipset	Video	CRM#	
Description of Enhancement/Fixes			

Fixed not to explode virtual memory for Video Call test.

Title	Exceeded POLQA License Alarm in AutoCall Scenario window	Tech	
Product	XCAL-Series	Requestor	
Chipset		CRM#	
Description of Enhancement/Fixes			

An exceeded POLQA License alarm used to be popped up when clicking **Apply All** button in **AutoCall Scenario Setting** window. The phenomenon has been fixed.

Title	ELF for Multi RAB Scenario	Tech	
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Product	XCAL-Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Fixed not to have ELF while creating Multi RAB Scenario.

Title	Logging File Save for MtoM Voice/Data Call with option of Each Scenario configured	Tech	
Product	XCAL-Series	Requestor	
Chipset	MtoM Voice, Data	CRM#	
Description of Enhancement/Fixes			

Fixed to save logging file properly when proceeding MtoM Voice and Data call test while **Each Scenario** is selected for **AutoCall Logging Option** section in **AutoCall Scenario Setting** window.

Title	Statistics Data in Call Statistics (All Scenarios)	Tech	
Product	XCAL-Series	Requestor	
Chipset	App	CRM#	
Description of Enhancement/Fixes			

Fixed to show proper statistics data in **Call Statistics (All Scenarios)** window.

Title	Declaration of Setup Time for Multi RAB (M to M)	Tech	
Product	XCAL-Series	Requestor	
Chipset	Multi RAB (M to M)	CRM#	
Description of Enhancement/Fixes			

Fixed to declare properly when Setup time is ended at dialing side while performing M to M test in Multi RAB.

Title	Declaration of Call Result for Multi	Tech	
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	RAB (YouTube)		
Product	XCAL-Series	Requestor	
Chipset	Multi RAB (Voice + YouTube)	CRM#	
Description of Enhancement/Fixes			

Fixed to declare Call Result for YouTube properly while Voice + YouTube is performed in Multi RAB.

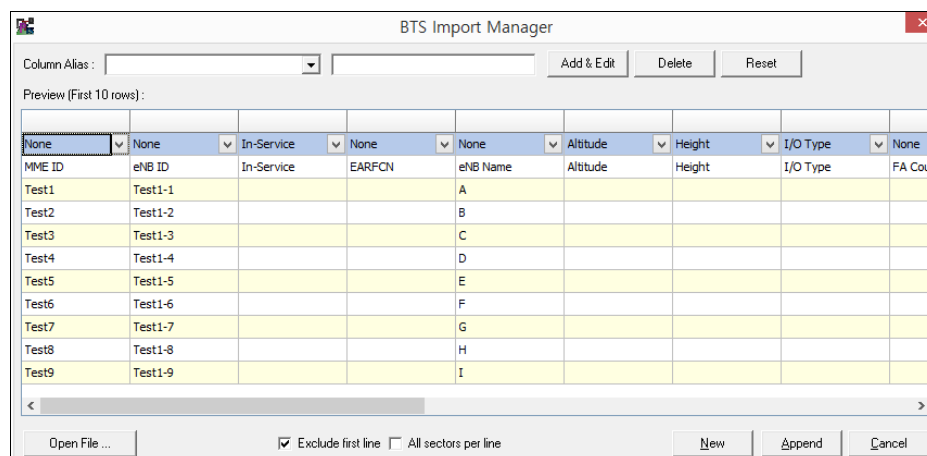
Real Time Mapping

Title	Test Route Initialization	Tech	
Product	XCAL-Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

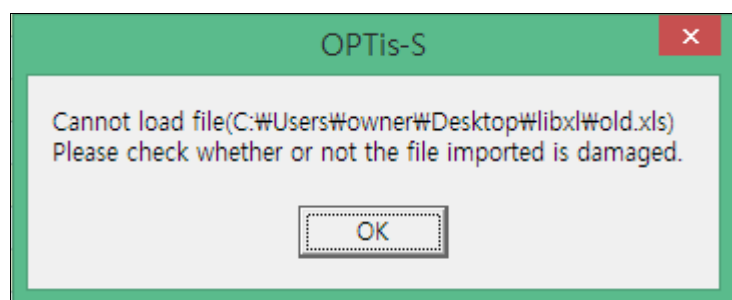
Test route used to be initialized when AutoCall is restarted after a test. It has been fixed to work properly.

Title	BTS Information File Open in PC with NO MS Office installed	Tech	
Product	XCAL-Series	Requestor	
Chipset	Common	CRM#	
Description of Enhancement/Fixes			

Fixed to open BTS information file in PC with no MS Office installed.



When importing a corrupted file, the following alarm window appears.



Version: 3.3.4.0

Date of Release: Feb. 06, 2015

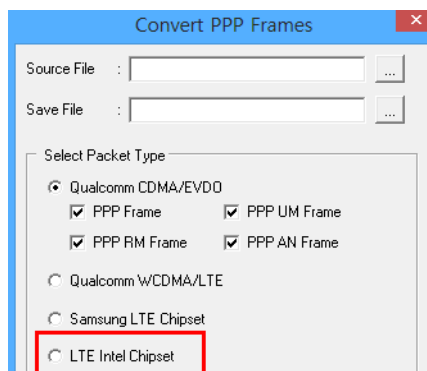
Added

Newly added functions are listed by corresponding function categories.

Common

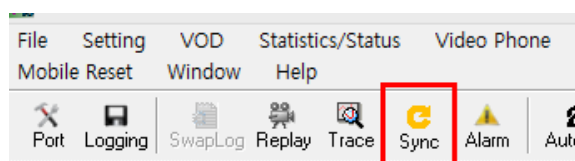
Title	LTE Intel Chipset	CRM#	
Description of Enhancement/Fixes			

Added LTE Intel Chipset to File -> Tools -> Convert to PCAP (Mobile IP Packet).



Title	Sync feature	CRM#	
Description of Enhancement/Fixes			

Added Button and Window to execute Sync feature.



- Signaling Message
- DM Message (Receives Sync feature from other window)

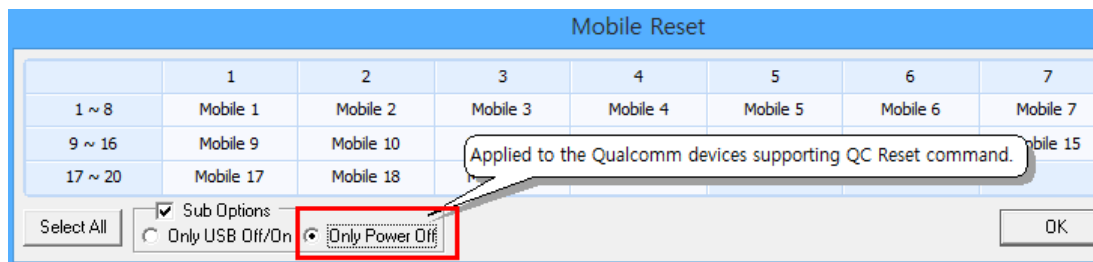
- LTE Handover / Load Balancing Info
- User defined table
- User defined graph
- User defined Summary Info (Receives Sync feature from other window)
- PPP Frame(Mobile Packet) Message
- Packet Capture Viewer
- Call Statistics(Current Scenario) – Detail Message
- Real Time Mapping.

Title	Max packet size	CRM#	
Description of Enhancement/Fixes			

Changed to log by automatically changing Max packet size to 150 bytes when executing DATA(FTP, FTPNT, APP FTP, APP FTPNT) Autocall.

Title	Power off option	CRM#	
Description of Enhancement/Fixes			

Added Option to Power off to Mobile Reset window of M(II), MTS.



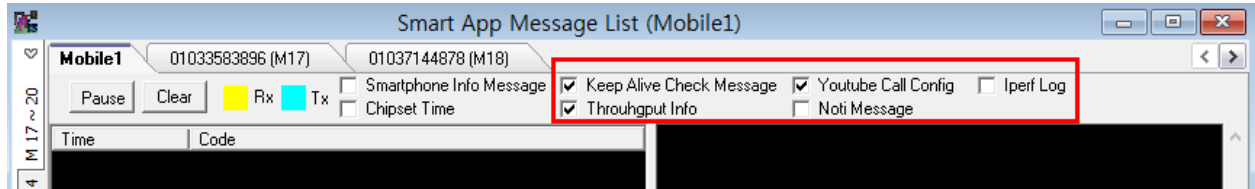
Title	WiFi Intent Message	CRM#	
Description of Enhancement/Fixes			

Added WiFi Intent Message to Smart App Message List window during VoWiFi AutoCall.

Title	Keep Alive Check Message, Throughput Info, Youtube Call Config, Iperf Log option	CRM#	
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Description of Enhancement/Fixes

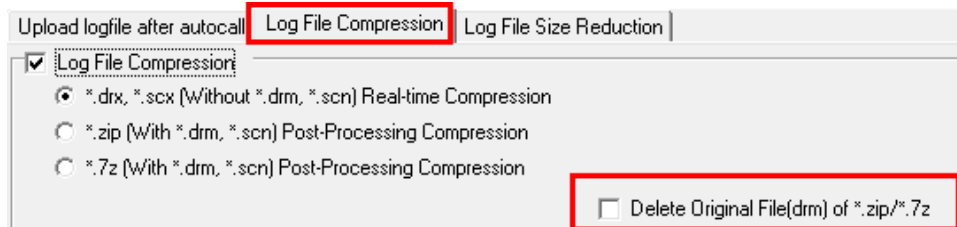
Added Keep Alive Check Message, Throughput Info, Youtube Call Config, Iperf Log option to Smart App Message List window. Related Message will be displayed when corresponding item is selected.



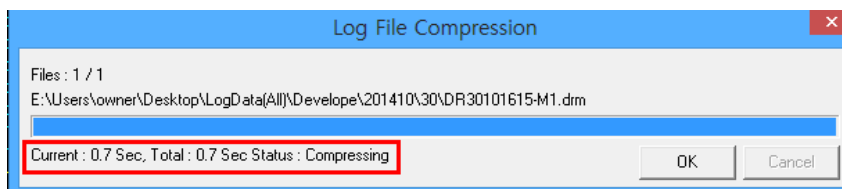
Title	Delete original file feature	CRM#
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Description of Enhancement/Fixes

Added feature to delete original file when compressing Log file.



Added feature to display compression time and status when compressing Log file.

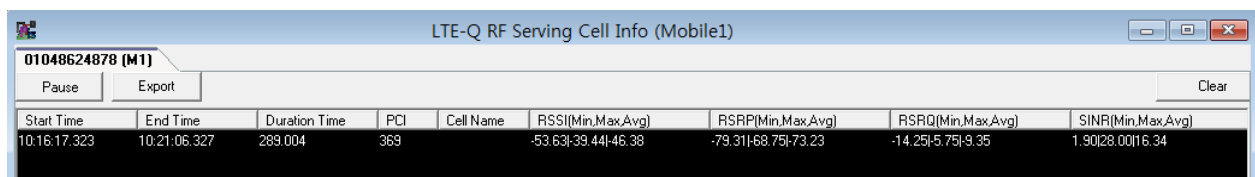


Title	LTE-Q RF Serving Cell Info window	CRM#
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Description of Enhancement/Fixes

Added LTE - Q RF Serving Cell Info window.

Corresponding window displays average, maximum, and minimum value of RSSI, RSRP, RSRQ, SINR by LTE Server Cell – PCI(0~503).



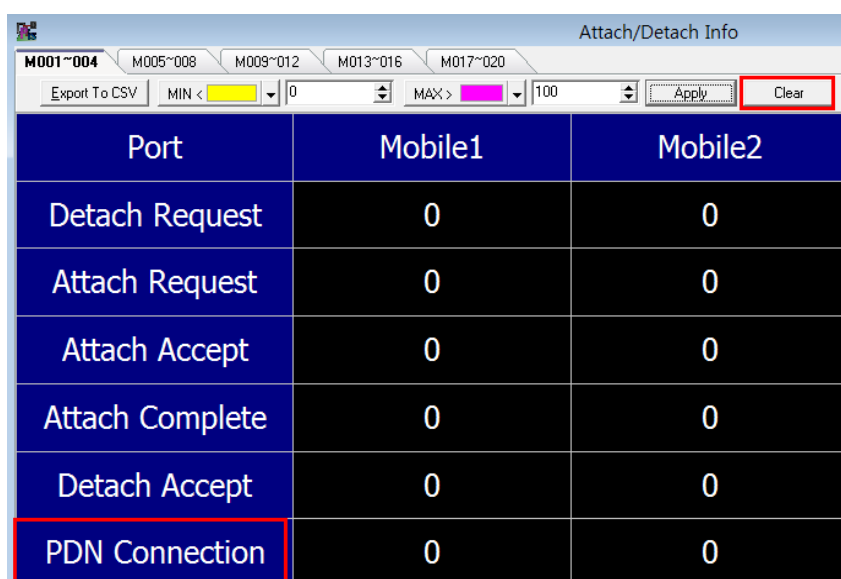
Title	Convert to convert DRM file	CRM#	
Description of Enhancement/Fixes			

Added Converter to convert DRM file to NNEXT(SDM) Format.

Title	Clear button	CRM#	
Description of Enhancement/Fixes			

Added Clear button to Statistics/Status -> Attach/Detach Info window.

Added PDN Connection tab.



Attach/Detach Info			
M001~004	M005~008	M009~012	M013~016
M017~020			
Export To CSV	MIN < 0	MAX > 100	Apply Clear
Port	Mobile1	Mobile2	
Detach Request	0	0	
Attach Request	0	0	
Attach Accept	0	0	
Attach Complete	0	0	
Detach Accept	0	0	
PDN Connection	0	0	

Title	Navigate to Idle Start point	CRM#	
Description of Enhancement/Fixes			

Added feature to navigate to Idle Start point of corresponding Call from Detail Message window when a Call is double-clicked from the Call tab of Call Statistics(Current Scenario) window.

Title	Setting - Decode AS feature	CRM#	
Description of Enhancement/Fixes			

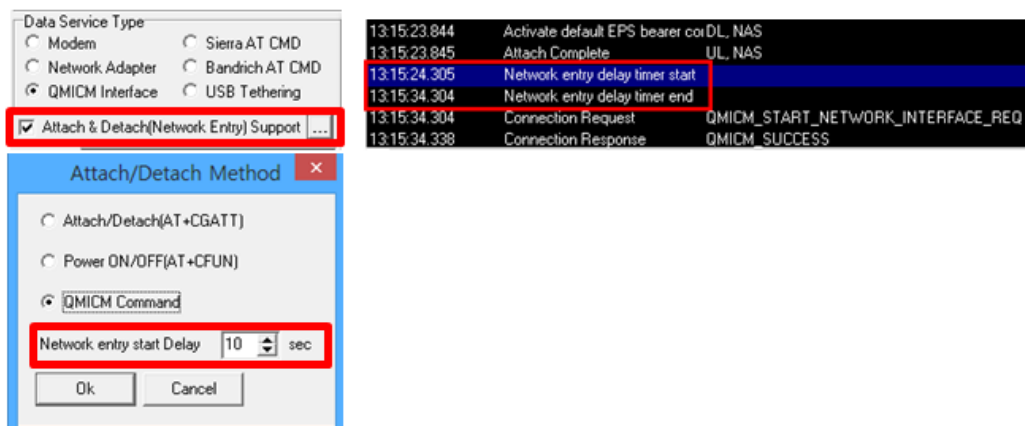
Added feature to apply Setting - Decode AS feature in both Wireshark and Manual.

Title	SIP/RTP to Message	CRM#	
Description of Enhancement/Fixes			

Added SIP/RTP to Message - HTTP / SIP Message View window.

Title	Delay on the Network Entry start Point	CRM#	
Description of Enhancement/Fixes			

Added option to configure Delay on the Network Entry start Point when using Attach & Detach(Network Entry) Support option of QMICM Interface.

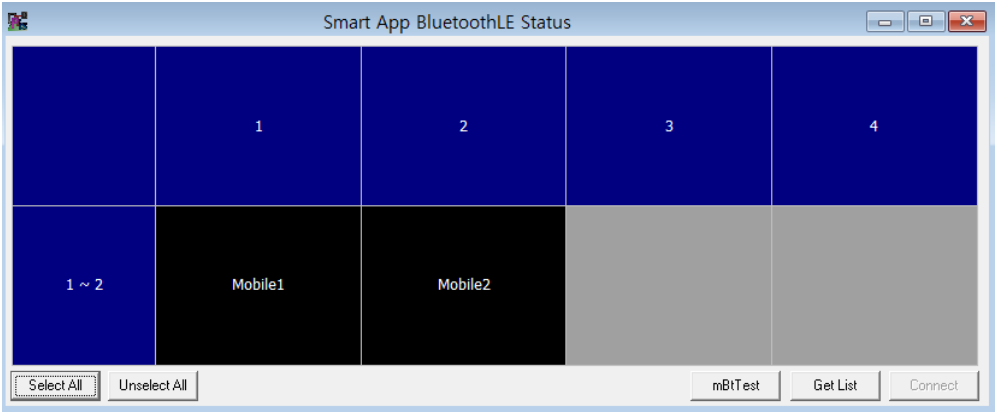


Title	Improved and Deteriorated Event Alarm	CRM#	
Description of Enhancement/Fixes			

Added Improved and Deteriorated Event Alarm when executing VoWiFi Autocall using BluetoothLE.

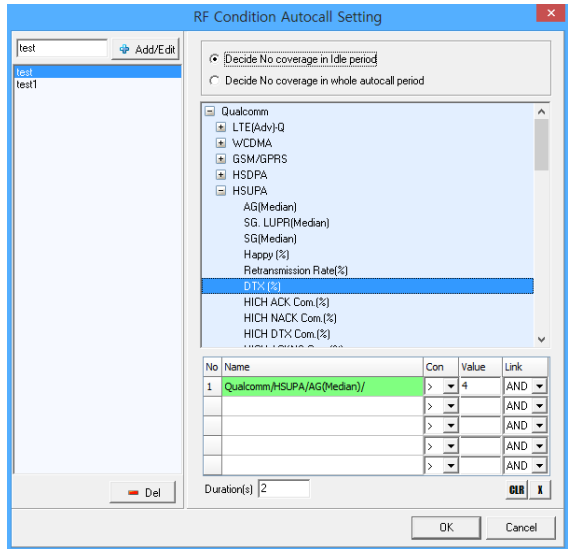
Title	Smart App BluetoothLE Status	CRM#	
Description of Enhancement/Fixes			

Implemented Smart App BluetoothLE Status window.

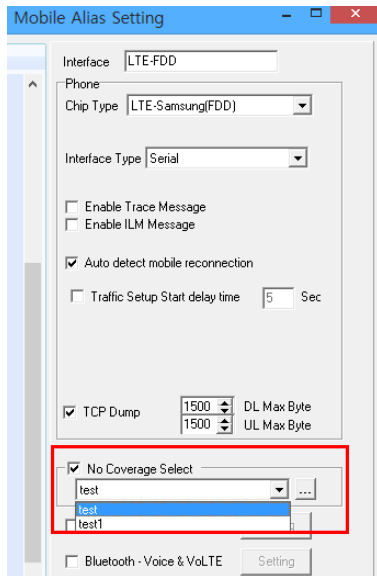


Title	Alias	CRM#
Description of Enhancement/Fixes		

Added Alias to RF Condition Autocall Setting.



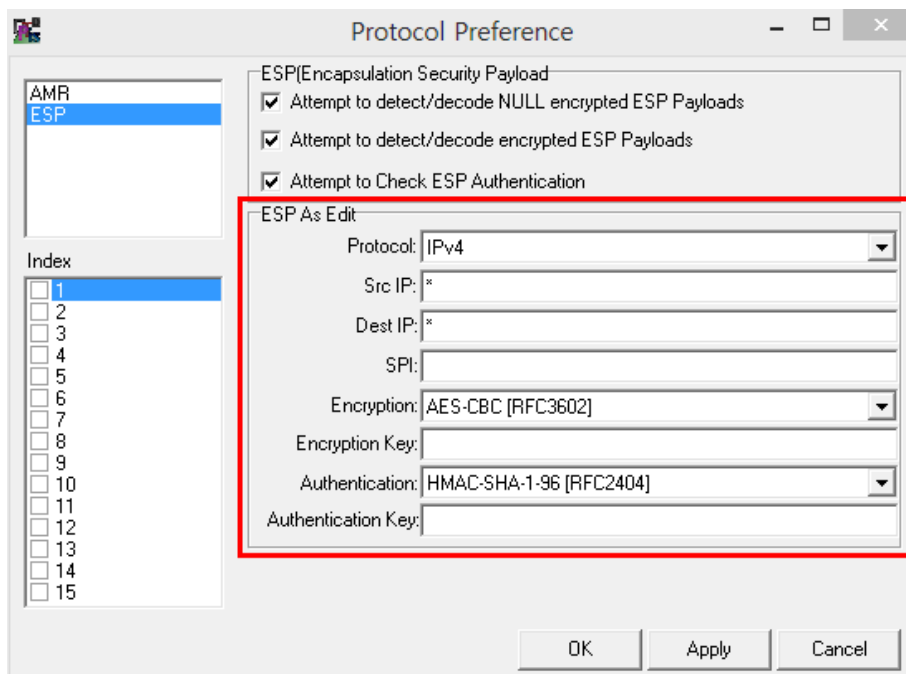
Added No Coverage Select feature in Port Setting.



Able to apply configured value according to Chip characteristics for each Port in RF Condition Autocall Setting.

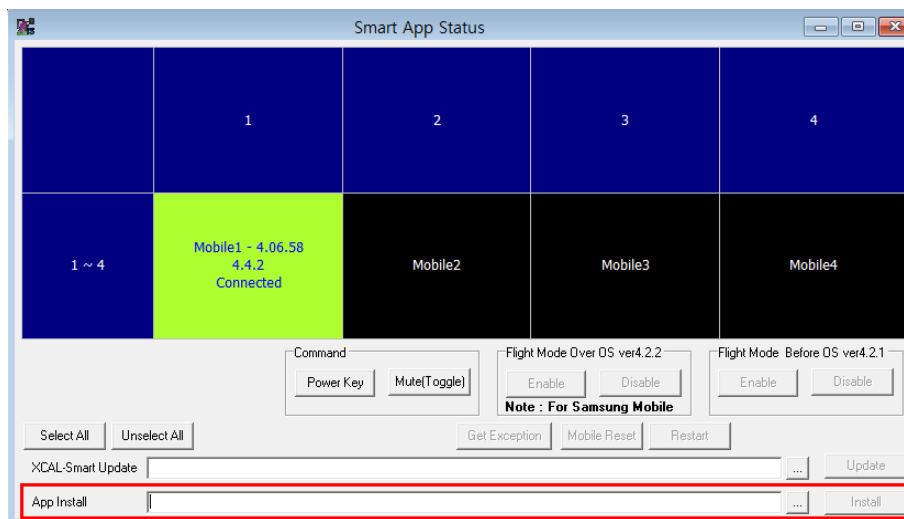
Title	ESP As Edit	CRM#	
Description of Enhancement/Fixes			

Added ESP As Edit to Protocol Preference window.



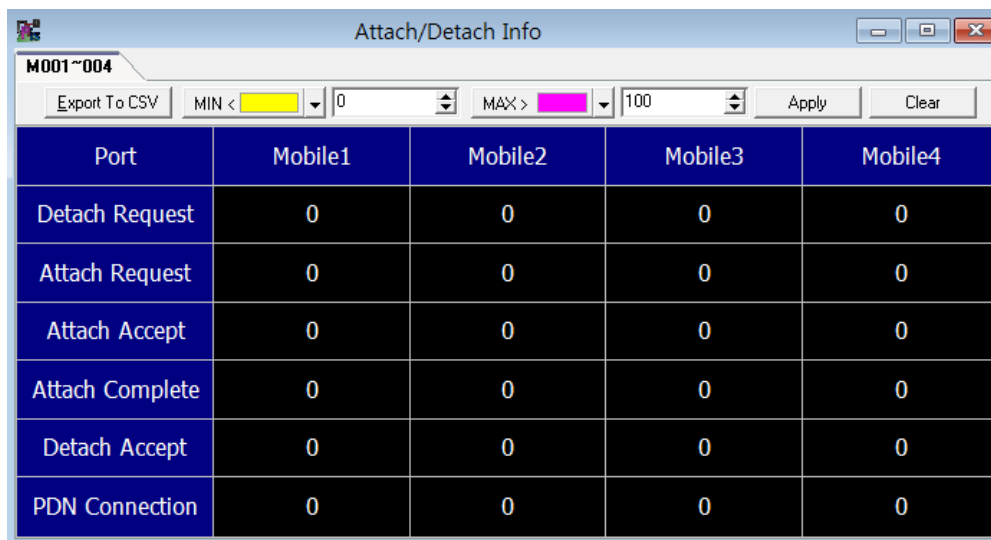
Title	App Install Feature	CRM#	
Description of Enhancement/Fixes			

Added App Install feature to Smart App Status window.



Title	Attach/Detach Info window	CRM#	
Description of Enhancement/Fixes			

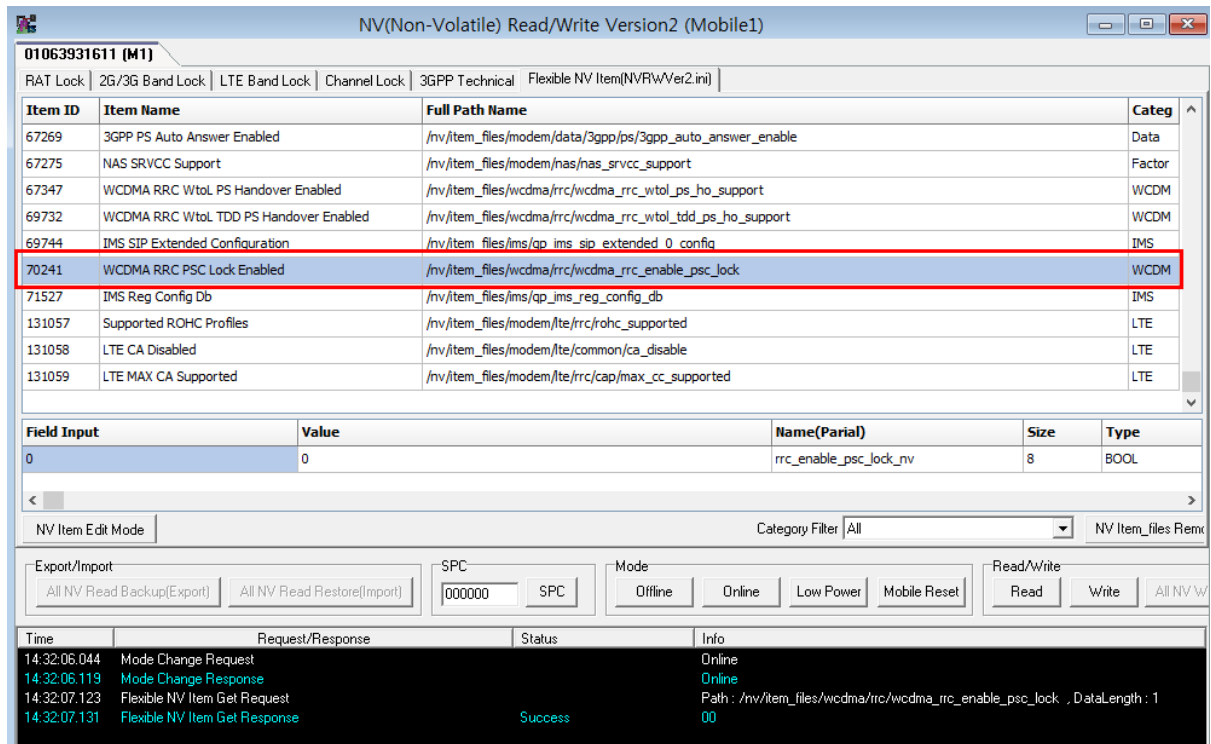
Added Attach/Detach Info window to Statistis/Status menu.



Title	WCDMA RRC PSC Lock	CRM#	
Description of Enhancement/Fixes			

Added WCDMA RRC PSC Lock to NV(Non-Volatile) Read/Write Version2 window.

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Title	Play Quality	CRM#
Description of Enhancement/Fixes		

Added Play Quality to Youtube Info window of Statistic/Status menu.



Title	Edit Idle, Setup, T.Setup, Traffic, Total Time	CRM#
Description of Enhancement/Fixes		

Added feature to edit Idle, Setup, T.Setup, Traffic, Total time in Autocall Scenario Setting window.

Double-click to activate the editing location and click Save to save the changes.

AutoCall Scenario Setting

Type	Idle	Setup	T.Setup	Traffic	Total
App YouTube	10	20	20	100	1
URL			-	-	-
HW/H4nnXqvfy					

Save

Title	ADB Scenario Grouping	CRM#	
Description of Enhancement/Fixes			

Added ADB Scenario Grouping feature.

Able to configure different Android Scenario Setting for each Mobile.

Android Scenario Edit

Scenario:

Sample Scenario:

Script Editor | Special Option | **Scenario Group**

Android Scenario	Phone Model
a	Default
b	<None>
c	<None>
d	<None>
e	<None>

Scenario Alias: a, b, c, d, e

Scenario Group Alias:

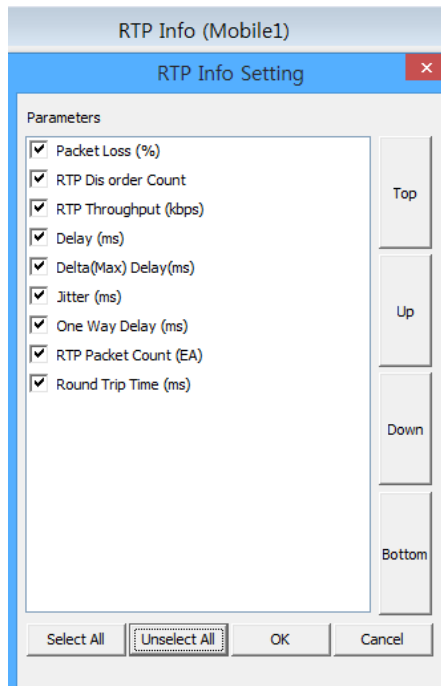
Title	Alert at the Point	CRM#	
Description of Enhancement/Fixes			

Added feature to alert at the point where virtual memory reaches 1.9 G and end specific UI.

- MOS > MOS Wave Format
- MOS > Mouth To Ear Delay
- MOS > MOS Signal Graph
- VOD > Reference Screen
- VOD > Received Screen

Title	RTP Info Setting window	CRM#	
Description of Enhancement/Fixes			

Implemented RTP Info Setting window to RTP Info window. Double-click to activate.



Title	VoIP > Codec Statistics window	CRM#	
Description of Enhancement/Fixes			

Implemented VOIP > Codec Statistics window.

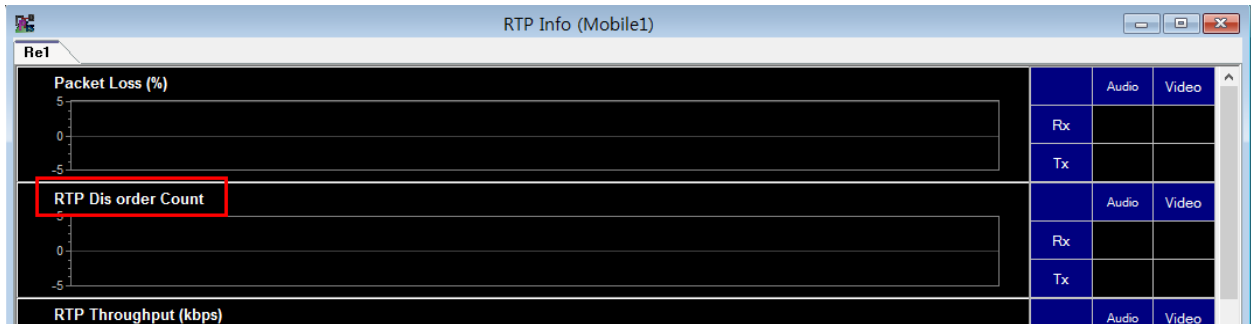
Codec Statistics (Mobile1)													
Re1													
Reset													
AMR													
Fr Type	Good	Bad	SID First or Update	SID Bad	No Data								Current
UL	0	0	0	0	0								
DL	0	0	0	0	0								
Fr Rate	4.75K	5.15K	5.90K	6.70K	7.40K	7.95K	10.2K	12.2K	SID	No Data			Current
UL	0	0	0	0	0	0	0	0	0	0			
DL	0	0	0	0	0	0	0	0	0	0			
AMR WB													
Fr Type	Good	Bad	Lost	SID First or Update	SID Bad	No Data							Current
UL	0	0	0	46	0	0							SID First or Update
DL	13	0	0	44	0	0							Good
Fr Rate	6.60K	8.85K	12.65K	14.25K	15.85K	18.25K	19.85K	23.05K	23.85K	SID	Lost	No Data	Current
UL	0	0	0	0	0	0	0	0	0	46	0	0	SID
DL	0	0	0	0	0	0	0	0	13	44	0	0	23.85K

Title	Packet Loss (%) Calculation Method	CRM#	
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Description of Enhancement/Fixes

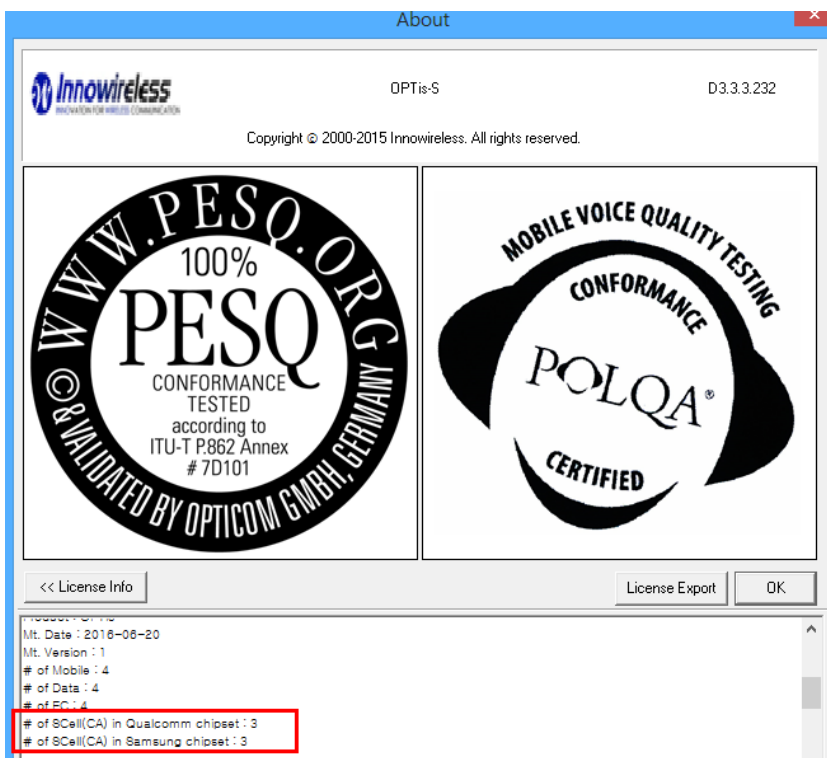
Changed Packet Loss(%) calculation method of RTP Info window.

Added RTP Dis order count to RTP Info window.



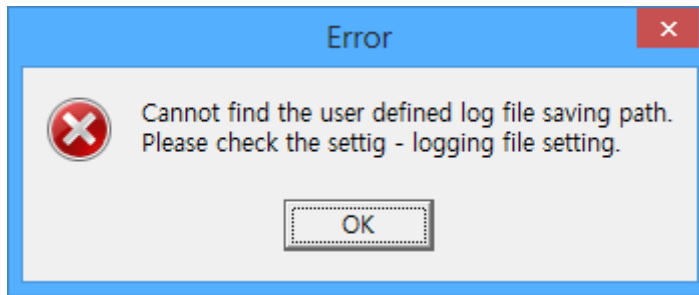
Title	License Display item	CRM#	
Description of Enhancement/Fixes			

Added License display item for Samsung Chipset, Qualcomm Chipset.



Title	Log file saving location does not exist	CRM#	
Description of Enhancement/Fixes			

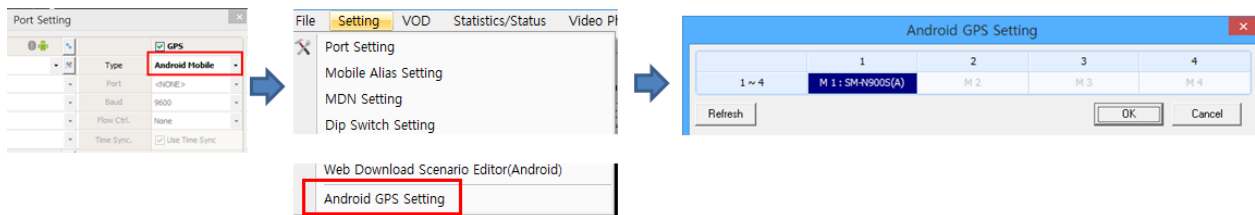
Added feature to alert a pop-up when Log File saving location does not exist.



Title	Display GPS Provided	CRM#	
Description of Enhancement/Fixes			

Implemented feature to display GPS provided by Android.

1. Configure GPS Type as Android Mobile in Port Setting
2. Setting > Android GPS Setting
3. Select Mobile to load GPS information

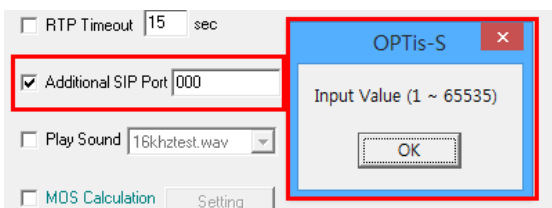


AutoCall

Title	Configure Additional SIP Port	CRM#	
Description of Enhancement/Fixes			

Added feature to configure Additional SIP Port in QC-VoLTE, S-VoLTE, Common.

(Range: 1 ~ 65535, May enter up to 2 separated by comma(,).)



Title	VoWiFi Call feature	CRM#	
Description of Enhancement/Fixes			

Added VoWiFi call feature.

Title	Dial Select feature	CRM#	
Description of Enhancement/Fixes			

Changed Dial Select feature in Voice.

- Changed to allow selecting Phone, User, ADB, BT, QC.

Changed Voice -> Command(ADB) to Common.

Title	Multi Session	CRM#	
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Description of Enhancement/Fixes

Added Multi Session feature to App.

The screenshot shows a configuration window with tabs for UDP, WAP, MMS, QSMS, SMS&MMS(3GPP, 2G, 3G Modem), Iperf, YouTube, and App. The App tab is selected. Below the tabs are sections for FTP, HTTP, Ping, FTP NT, YouTube, IPerf, and Email. The FTP section contains fields for FTP Server, FTP Port (21), Login ID, Password, Change Dir, and radio buttons for Get File and Put File. A checkbox for File Deletion is checked, and a checkbox for Passive Mode is unchecked. The Multi-Thread Session feature is highlighted with a red box, showing a value of 1. Below this are fields for Start time, Interval, and Threshold, all set to 0.

Title	MOS Calculation Setting	CRM#	
Description of Enhancement/Fixes			

Added MOS Calculation setting to PS Video Call.

Added Manufacture selection to PS Video Call.

The screenshot shows a configuration window with a Manufacturer dropdown menu set to Samsung Mobile. A checkbox for MOS Calculation is checked and highlighted with a red box. The dropdown menu is also highlighted with a red box, showing the selected item 'Samsung Mobile' and the option 'LG Mobile' below it.

Title	Call recording feature	CRM#	
Description of Enhancement/Fixes			

Added Call recording feature during Voice Call.

Location of corresponding option: MOS Calculation Setting -> Record Phone Calls

The screenshot shows the 'MOS Setting' dialog box. It contains several sections: 'Count' with 'MOS Count' set to 0 and a checkbox for 'Using MOS Count for Traffic Time'; 'Measurement method' with 'Type' set to 'Half Duplex(Downlink/Uplink)' and 'Algorithm' set to 'PESQ MOS P.862-1'; 'Event' with 'Bad Quality Threshold' at 2.20, 'Continuous B.Q. Threshold' at 1.90, 'Continuous B.Q. Count' at 2, and a checkbox for 'Continuous Call in CBQ'; 'File' with 'Original File' set to 'TTA-M2.wav' and a checkbox for 'Different Play File from Orig'; and 'Play File' set to 'TTA-M2.wav'. At the bottom, there are checkboxes for 'Save Wave Stream' and 'Record Phone Calls', with the latter being highlighted by a red rectangle.

Corresponding option operates only when “Smart Auto Call Record” Application is installed in the Mobile.

Title	Buffering Holding Time	CRM#	
Description of Enhancement/Fixes			

Added Buffering Holding Time to App – Youtube.

The screenshot shows the 'YouTube App' settings window. It has tabs for 'QSMS', 'SMS&MMS(3GPP, 2G, 3G Modem)', 'Iperf', 'IM', 'YouTube', 'App', and 'QChat'. The 'App' tab is selected. Below the tabs, there are sections for 'Video Search (using web browser)' and 'Title Search (using XCAL-Smart)'. At the bottom, there is a 'Call Result' section with a checkbox and a 'Buffering Holding time' field set to 0 seconds, which is highlighted by a red rectangle.

Title	Allow Multi RAB	CRM#	
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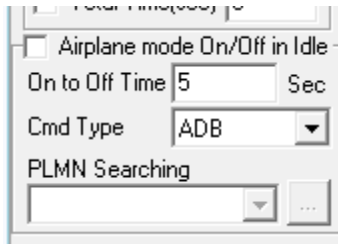
Description of Enhancement/Fixes

Added feature to allow Multi Rab for QC-VoLTE + Smart(App) Scenario.

Title	Airplane mode On/Off	CRM#	
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Description of Enhancement/Fixes

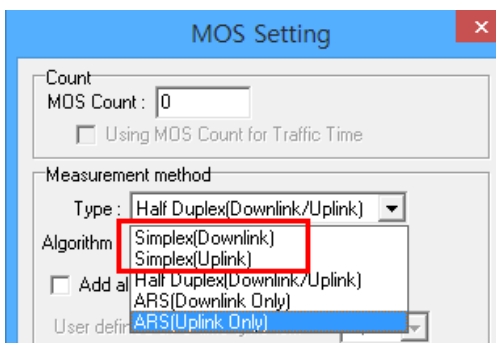
Added Airplane mode On/Off in Idle feature to PS Video Call tab.



Title	Simplex feature to Play and Recording	CRM#	
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Description of Enhancement/Fixes

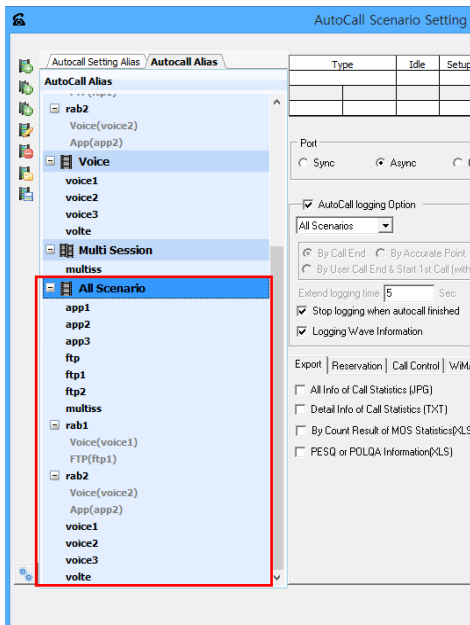
Implemented Simplex feature to Play in Uplink and Recording in Downlink in Measurement method Type of MOS Setting window.



Title	View all Scenario	CRM#	
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Description of Enhancement/Fixes

Added Tree to view all Scenario in Alias of Autocall Scenario Setting window.



Title	Display Multi-Session Information	CRM#	
Description of Enhancement/Fixes			

Added to display Multi-Session information in AutoCall Scenario Setting window.

AutoCall Scenario Setting						
Type	Idle	Setup	T.Setup	Traffic	Total	
Multi-Session	15	70	30	100	1	
Multi Session Scenario Name						
app1/app3/app2						

Title	Display Iperf Information	CRM#	
Description of Enhancement/Fixes			

Added to display Iperf information in AutoCall Scenario Setting window.

AutoCall Scenario Setting						
Type	Idle	Setup	T.Setup	Traffic	Total	
Iperf	15	70	30	100	1	
Daemon		Mode	Dir	Thr(Kbps)		
1.1.1.1		UDP	Up	1024		

Title	Traffic Start Reference message	CRM#	
Description of Enhancement/Fixes			

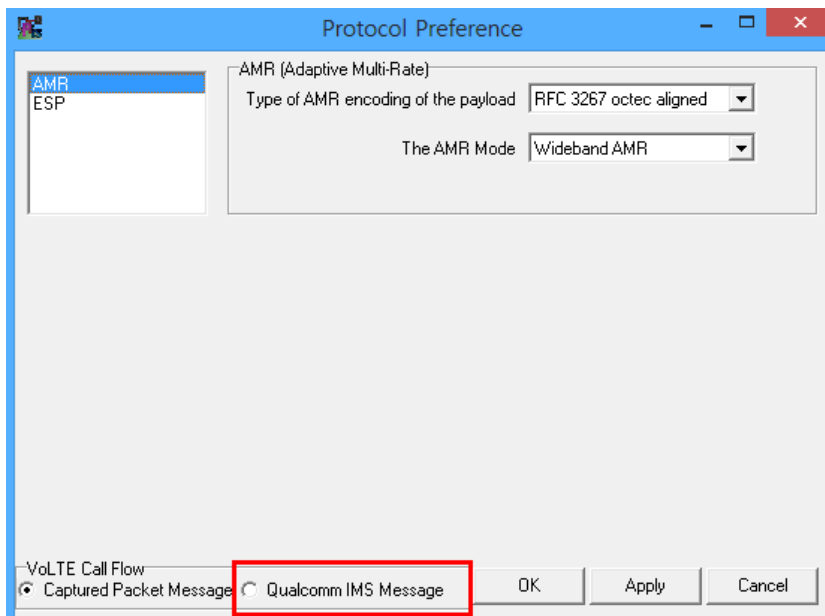
Added Traffic Start reference message when measuring VoLTE.

Title	Skip Call to Call Result	CRM#	
Description of Enhancement/Fixes			

Added Skip Call to Call Result when Read Failed or Write Failed occurs during Iperf measurement.

Title	Qualcomm IMS Message	CRM#	
Description of Enhancement/Fixes			

Added Qualcomm IMS Message to VoLTE reference Message.



Title	AT Command	CRM#	
Description of Enhancement/Fixes			

Added AT Command to QC-VoLTE.

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Voice | FTP | TFTP | PPP | Ping | PS VideoCall | SMS | CS | VoIP | HTTP | Key Emul | E-Mail | PS(2G,3G,4G Modem) | C

CDMA | QC-WCDMA | NOKIA | iDEN | TD-SCDMA | ManualMos | S-WCDMA | QC-VoLTE | S-VoLTE | AT Call | BT Call | VoWiFi | C

Call Type : Idle [Setting]
 Destination : None
 Dialed Digit : [Manual Dialing]
 Success Time : 0

Dial Select
 Phone : <NONE>
 User : ADB [AT] BT QC

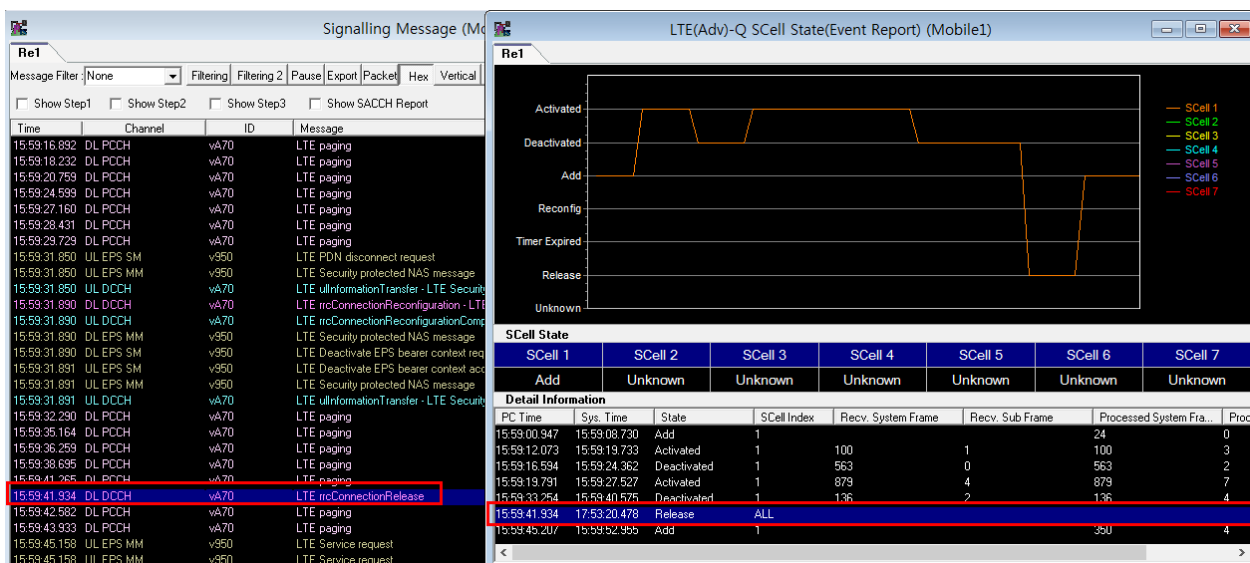
Dial up : AT Command [ATD] + MDN +
 Pick up : AT Command [500 ms] [ATA]
 Pick up Count : 3 [1000 ms]
 Call End : AT Command [AT+CHUP]

☐ Alternation
☐ RTP Timeout [15] sec

Qualcomm Chipset

Title	Release declaration condition	CRM#
Description of Enhancement/Fixes		

Added Release declaration condition to LTE(Adv)-Q SCell State(Event Report) window.



Title	0xB0C2	LTE	RRC	Serving	Cell	CRM#
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Information

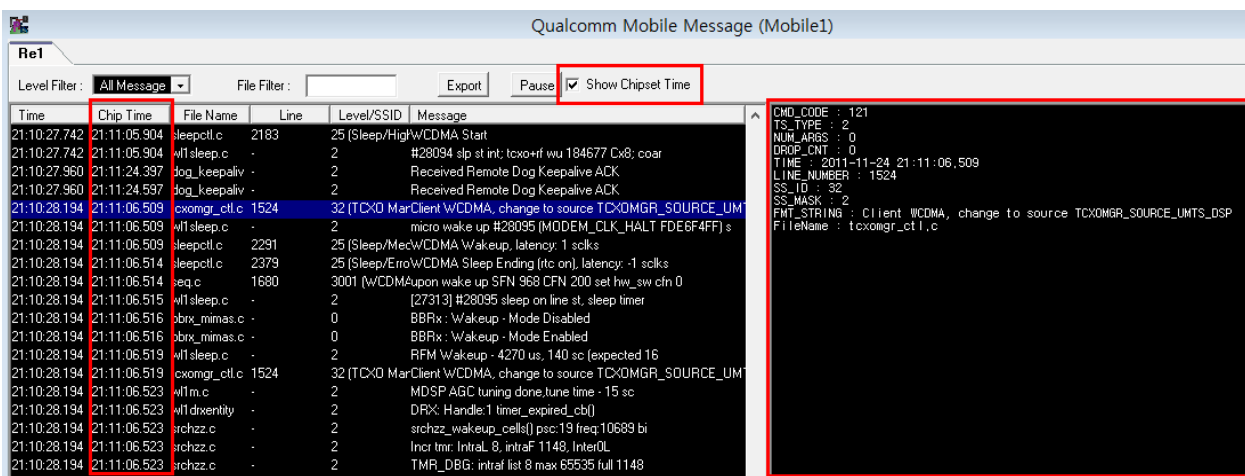
Description of Enhancement/Fixes

Processed 0xB0C2 LTE RRC Serving Cell Information as Version 3.

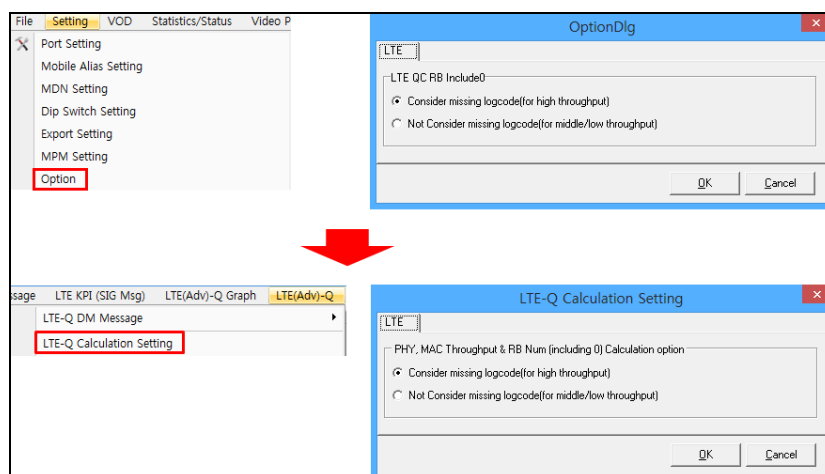
Processed 0xB0C0 LTE RRC OTA Message as Version 9.

Title Chipset Time and Detail Message**CRM#****Description of Enhancement/Fixes**

Added Chipset Time and Detail Message to Qualcomm Mobile Message window.

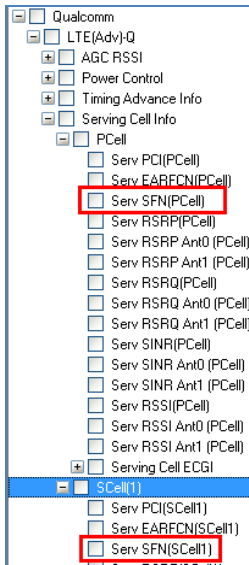
**Title** LTE-Q Calculation Setting window**CRM#****Description of Enhancement/Fixes**

Added LTE-Q Calculation Setting window to LTE-Q/LTE(Adv)-Q menu.

**Title** Serv SFN to User defined**CRM#**

Description of Enhancement/Fixes

Added Serv SFN to User defined for LTE(Adv)-Q.

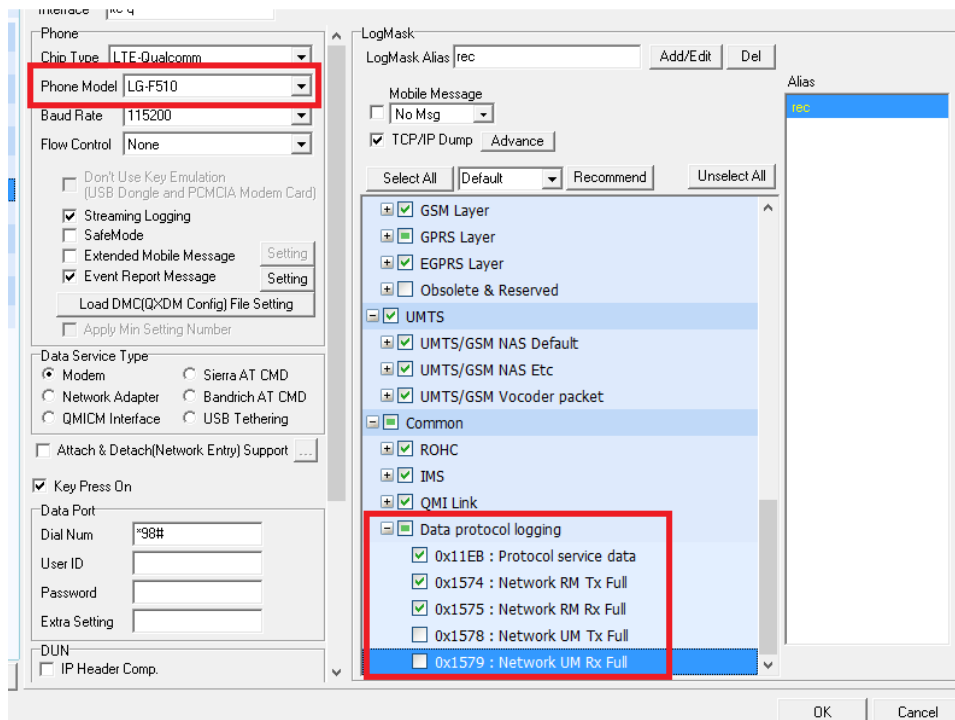


Title	Declare as Air Drop	CRM#	
Description of Enhancement/Fixes			

Added to declare as Air Drop when Connection Release occurs during Autocall Traffic in LTE-Qualcomm.

Title	LogMask to declare VoLTE Call	CRM#	
Description of Enhancement/Fixes			

Added LogMask to declare VoLTE call when Phone Model is LG-F510 in LTE-Qualcomm.



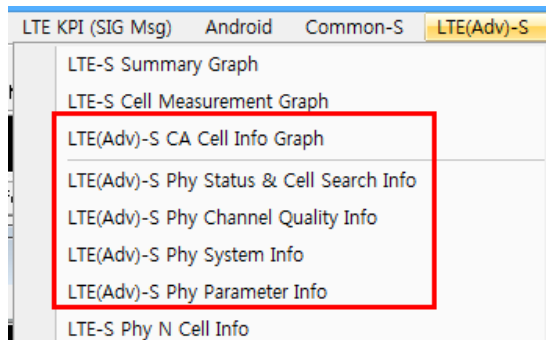
Samsung Chipset

Title	ICD Version 4.60	CRM#	
Description of Enhancement/Fixes			

Applied ICD Version 4.60.

Title	LTE(Adv)-S Related window	CRM#	
Description of Enhancement/Fixes			

Implemented LTE(Adv)-S related window.



Title	Logmask Default value	CRM#	
Description of Enhancement/Fixes			

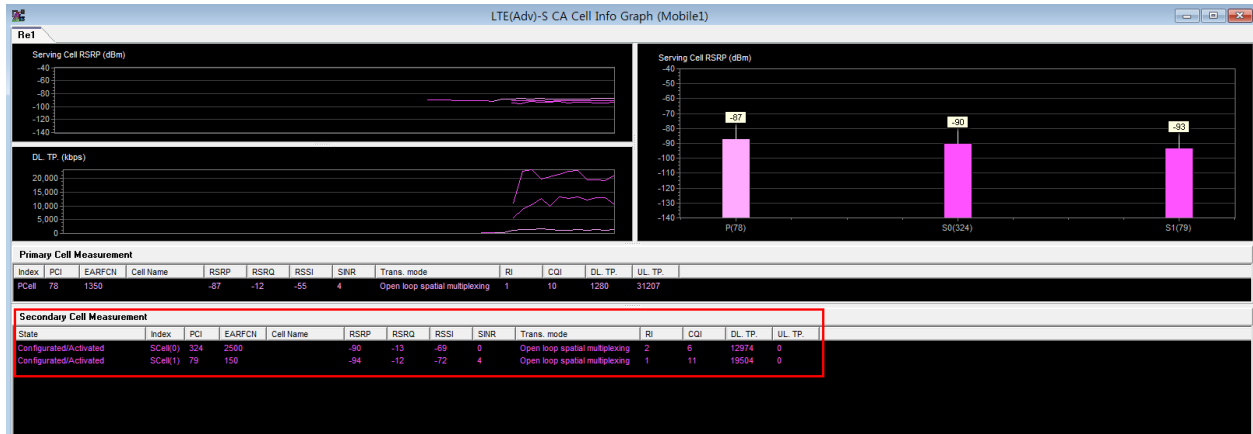
Edited Logmask Default value to All Check.

Samsung Chipset Item Setting			
Common Item	Enable	EDGE Item	Enable
LTE_N_CELL_INFORMATION (0x01)	<input checked="" type="checkbox"/>	EDGE_TIME_SLOT_INFO (0x00)	<input checked="" type="checkbox"/>
COMMON_DATA_INFORMATION (0x02)	<input checked="" type="checkbox"/>	EDGE_RLC_INFO (0x01)	<input checked="" type="checkbox"/>
COMMON_SIGNALING_INFORMATION (0x03)	<input checked="" type="checkbox"/>	EDGE_MODULATION_MEASURE (0x03)	<input checked="" type="checkbox"/>
		EDGE_PHY_DEDICATED_STATE_INFO (0x04)	<input checked="" type="checkbox"/>
LTE Item	Enable	EDGE_S_CELL_INFO (0x05)	<input checked="" type="checkbox"/>
LTE_PHY_PHY_STATUS_INFO (0x00)	<input checked="" type="checkbox"/>	EDGE_N_CELL_INFO (0x06)	<input checked="" type="checkbox"/>
LTE_PHY_CELL_SERCH_MEAS_INFO (0x01)	<input checked="" type="checkbox"/>	EDGE_3G_N_CELL_INFO (0x07)	<input checked="" type="checkbox"/>
LTE_PHY_N_CELL_INFO (0x02)	<input checked="" type="checkbox"/>	EDGE_HANDOVER_INFO (0x08)	<input checked="" type="checkbox"/>
LTE_PHY_SYSTEM_INFO (0x04)	<input checked="" type="checkbox"/>	EDGE_HANDOVER_HISTORY_INFO (0x09)	<input checked="" type="checkbox"/>
LTE_PHY_CHAN_QUAL_INFO (0x05)	<input checked="" type="checkbox"/>		
LTE_PHY_PARAMETER_INFO (0x06)	<input checked="" type="checkbox"/>	HSPA Item	Enable
LTE_PHY_PHICH_INFO (0x07)	<input checked="" type="checkbox"/>	GP_POWER_CONTROL_INFO (0x00)	<input checked="" type="checkbox"/>
LTE_L1_RF_INFO (0x10)	<input checked="" type="checkbox"/>	GP_TRCH_BLER_INFO (0x01)	<input checked="" type="checkbox"/>
LTE_L1_SYNC_INFO (0x11)	<input checked="" type="checkbox"/>	GP_FINGER_INFO (0x02)	<input checked="" type="checkbox"/>
LTE_L1_DOWNLINK_INFO (0x12)	<input checked="" type="checkbox"/>	GD_DPA_INFO (0x03)	<input checked="" type="checkbox"/>
LTE_L1_UPLINK_INFO (0x13)	<input checked="" type="checkbox"/>	GD_DPA_TX_INFO (0x05)	<input checked="" type="checkbox"/>
LTE_L1_C-DRX_CONFIG_INFO (0x14)	<input checked="" type="checkbox"/>	UL1_UMTS_RF_INFO (0x10)	<input checked="" type="checkbox"/>
LTE_L1_C-DRX_INFO (0x15)	<input checked="" type="checkbox"/>	UL1_SEARCH_INFO (0x11)	<input checked="" type="checkbox"/>
LTE_L1_MEASUREMENT_CONFIG (0x18)	<input checked="" type="checkbox"/>	UL1_FREQ_SEARCH_INFO (0x12)	<input checked="" type="checkbox"/>
LTE_L1_CA_CELL_INFO (0x19)	<input checked="" type="checkbox"/>	UL1_POWER_CONTROL_INFO (0x13)	<input checked="" type="checkbox"/>
LTE_L2_UL_SPECIFIC_PARAM (0x30)	<input checked="" type="checkbox"/>	UL1_OLPC_INFO (0x14)	<input checked="" type="checkbox"/>
LTE_L2_DL_SCH_CONFIG (0x31)	<input checked="" type="checkbox"/>	UL1_MID_TYPE_INFO (0x16)	<input checked="" type="checkbox"/>
LTE_L2_UL_SCH_CONFIG (0x32)	<input checked="" type="checkbox"/>	UL1_CELL_MEASUREMENT_INFO (0x17)	<input checked="" type="checkbox"/>
LTE_L2_TIME_ALIGNMENT_TIMER (0x33)	<input checked="" type="checkbox"/>	UL1_INTERFREQ_MEASUREMENT_INFO (0x18)	<input checked="" type="checkbox"/>
LTE_L2_PHR_CONFIG (0x34)	<input checked="" type="checkbox"/>	UL1_INTER_RAT_MEASUREMENT_INFO (0x19)	<input checked="" type="checkbox"/>

Title	Secondary Cell Measurement display method	CRM#	
Description of Enhancement/Fixes			

Added Secondary Cell Measurement display method to LTE(Adv)-S CA Cell Info Graph window.

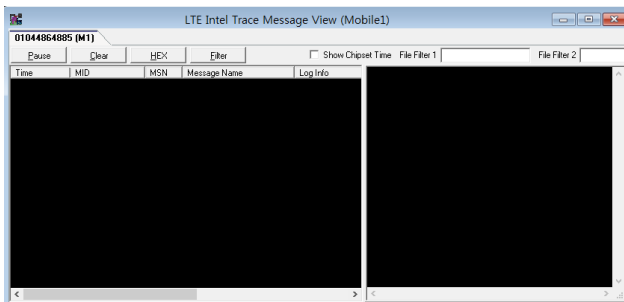
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Intel

Title	LTE Intel Trace Message View window	CRM#	
Description of Enhancement/Fixes			

Implemented LTE Intel Trace Message View window.



Title	Allow selecting ISTEP Logging option	CRM#	
Description of Enhancement/Fixes			

Implemented to allow selecting ISTEP Logging option in Port Setting.

Phone

Chip Type LTE-Intel

Baud Rate 115200

Flow Control None

Data Service Type

☐ Modem ☒ Network Adapter

☐ Attach & Detach(Network Entry) Support

Network Setting

APN

☒ RAT LTE

FCS Length 4 Bytes

☐ Enable ISTP Logging

☐ No Coverage Select

☒ Smart DM(App) Interface Setting

☐ Bluetooth - Voice & VoLTE Setting

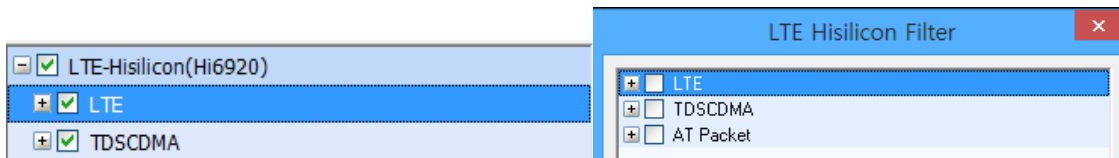
Hisilicon

Title	ADB Interface synchronization	CRM#	
Description of Enhancement/Fixes			

Implemented ADB interface synchronization for LTE – Hisilicon(Hi6920).

Title	LTE – Hisilicon(Hi6920) LogMask and DM Message Viewer Filter Tree	CRM#	
Description of Enhancement/Fixes			

Implemented LTE – Hisilicon(Hi6920) LogMask and DM Message Viewer Filter Tree.



VoLTE

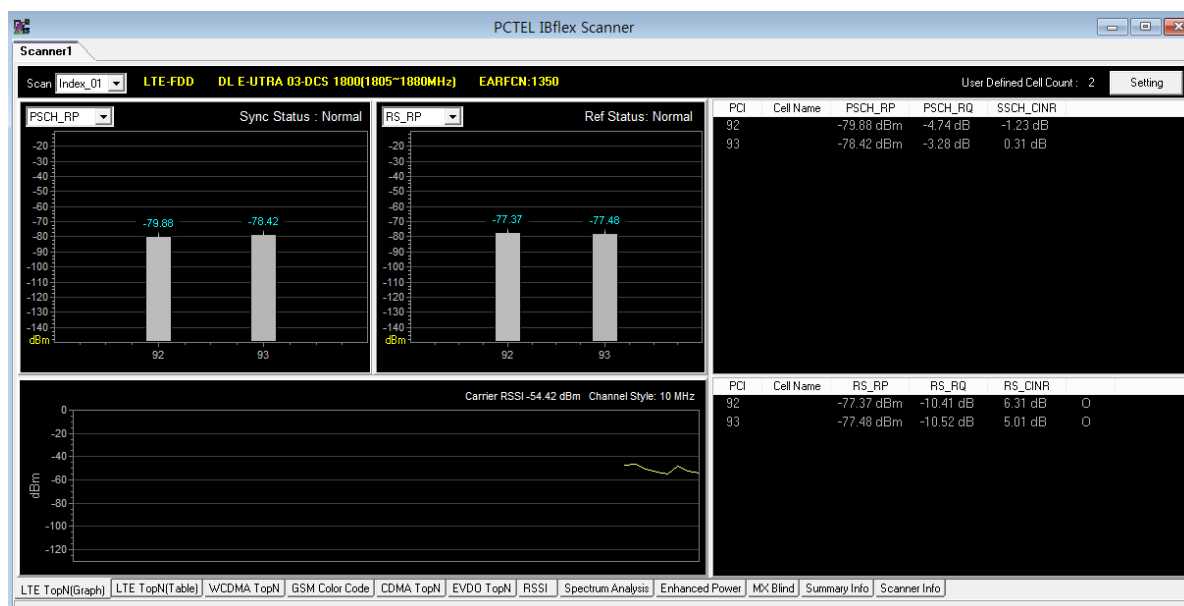
Title	Port-s and Port-c	CRM#	
Description of Enhancement/Fixes			

Added Port-s and Port-C to VoLTE SIP Port detection method.

Scanner

Title	PCTEL IBflex Scanner	CRM#	
Description of Enhancement/Fixes			

Implemented PCTEL IBflex Scanner.



Alias Setting

Interface: IBFLEX

Scanner Type: PCTEL IBflex

Read Scanner Info

☐ Internal GPS

☐ Run Auto with SDCard recording

Title	SeeGull Master API 1.7.3.2	CRM#	
Description of Enhancement/Fixes			

Updated to SeeGull Master API 1.7.3.2 for PCTEL MX, EXflex, IBflex.

Title	Edited Blind Scan Related Print	CRM#	
Description of Enhancement/Fixes			

Edited Blind Scan related print for PCTEL MX, IBflex.

- LTE-FDD
 - ◆ Scan Speed:E-UTRA 03-DCS 1800(1805~1880,Bandwidth:75MHz) => About 50~400Sec
- TD-LTE
 - ◆ Scan Speed:E-UTRA 40-TDD 2.3GHz(Bandwidth:100MHz) => About 50~450Sec
- WCDMA
 - ◆ Scan Speed:UTRA 01-IMT2000(Bandwidth:60MHz) => About 30~90Sec
- GSM
 - ◆ Scan Speed:PCS-1900 DL(Bandwidth:60MHz) => About 3~5Sec
- CDMA
 - ◆ Scan Speed:BC0-850 Cellular(869~894,Bandwidth:25MHz) => About 200-300Sec
- EVDO
 - ◆ Scan Speed:BC0-850 Cellular(869~894,Bandwidth:25MHz) => About 130-200Sec

Title	Configure WCDMA TopN Pilot – Pilot Measurement Mode	CRM#	
Description of Enhancement/Fixes			

Added to configure WCDMA TopN Pilot – Pilot Measurement Mode for PCTEL MX, EXflex, IBflex.

- MX Scanner : WCDMA TopN Pilot => Always High Dynamic Mode
- Exflex Scanner : WCDMA TopN Pilot => High Speed Mode or High Dynamic Mode
- IBflex Scanner : WCDMA TopN Pilot => High Speed Mode or High Dynamic Mode

CDMA, EVDO TopN Pilot Scan is fixed at High Dynamic Mode.

Title	Summary Info tab	CRM#	
Description of Enhancement/Fixes			

Added Summary Info Tab to PCTEL (MX/IBflex/Exflex) Scanner.

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PCTEL IBflex Scanner

Scanner1

Number Of TopN5

LTE TopN	EARFCN	RSSI	Top 1				Top 2				Top 3				Top 4				Top 5					
			PCI	RS_RP	RS_RQ	RS_CINR	PCI	RS_RP	RS_RQ	RS_CINR	PCI	RS_RP	RS_RQ	RS_CINR	PCI	RS_RP	RS_RQ	RS_CINR	PCI	RS_RP	RS_RQ	RS_CINR		
LTE Index 1																								
WCDMA TopN	UARFCN	RSSI	Top 1				Top 2				Top 3				Top 4				Top 5					
			PSC	RSCP	Ec/Io	SIR	PSC	RSCP	Ec/Io	SIR	PSC	RSCP	Ec/Io	SIR	PSC	RSCP	Ec/Io	SIR	PSC	RSCP	Ec/Io	SIR		
WCDMA Index 1																								
CDMA TopN	Channel	RSSI	Top 1				Top 2				Top 3				Top 4				Top 5					
			PN	Ec	Ec/Io	Pilot Delay	PN	Ec	Ec/Io	Pilot Delay	PN	Ec	Ec/Io	Pilot Delay	PN	Ec	Ec/Io	Pilot Delay	PN	Ec	Ec/Io	Pilot Delay		
CDMA Index 1																								
EVDO TopN	Channel	RSSI	Top 1				Top 2				Top 3				Top 4				Top 5					
			PN	Ec	Ec/Io	Pilot Delay	PN	Ec	Ec/Io	Pilot Delay	PN	Ec	Ec/Io	Pilot Delay	PN	Ec	Ec/Io	Pilot Delay	PN	Ec	Ec/Io	Pilot Delay		
EVDO Index 1																								
GSM Color Code	Top 1				Top 2				Top 3				Top 4				Top 5							
	ARFCN	RSSI	BSIC	C/I	ARFCN	RSSI	BSIC	C/I	ARFCN	RSSI	BSIC	C/I	ARFCN	RSSI	BSIC	C/I	ARFCN	RSSI	BSIC	C/I				
GSM Index 1																								

LTE TopN(Graph)

LTE TopN(Table)

WCDMA TopN

GSM Color Code

CDMA TopN

EVDO TopN

RSSI

Spectrum Analysis

Enhanced Power

MX Blind

Summary Info

Scanner Info

Title	ViCom 15.21	CRM#	
Description of Enhancement/Fixes			

Applied ViCom 15.21 of R&S TSMW Scanner.

Title	DRT 4311B Scanner	CRM#	
Description of Enhancement/Fixes			

Added DRT 4311B Scanner.

MOS

Title	Video MOS Calculation	CRM#	
Description of Enhancement/Fixes			

Added Video MOS Calculation feature to measure MOS of Samsung Chipset only Video Call. MOS measurement follows PEVQ Algorithm and Traffic Time is limited to 5 ~ 20 seconds.

It does not proceed to the next Call until MOS measurement is completed.

Voice | FTP | TFTP | PPP | Ping | PS VideoCall | SMS | CS | VoIP | H

Qualcomm Common(ADB)

Call Type : Idle Setting

Destination : None

Dialed Digit :

Success Time :

Dial Select

Dial up : ADB Command

Pick up : ADB Command 500 ms Send Key

Pick up Count : 3 1000 ms

Call End : ADB Command

☒ RTP Timeout 10 sec

Manufacturer : Samsung Mobile

☐ MOS Calculation Setting

☒ Video MOS Calculation(Only Samsung Chipset)

OPTis-S

Traffic Time (5 ~ 20)

OK

Title	MOS Display Count	CRM#	
Description of Enhancement/Fixes			

Added MOS Display Count to change count of MOS values on History tab of MOS -> MOS Statistics window.

Setting

	1	2	3	4
1 ~ 4	Mobile 1	Mobile 2	Mobile 3	Mobile 4

Unselect All

MOS Display Count 4

Ok Cancel

Title	Display MOS Signal Graph	CRM#	
Description of Enhancement/Fixes			

Added to display MOS Signal Graph when executing Play Sound feature. (Setup Time ~ Call End)

Added option to Play Sound feature.

☒ Play Sound 16khztest.wav

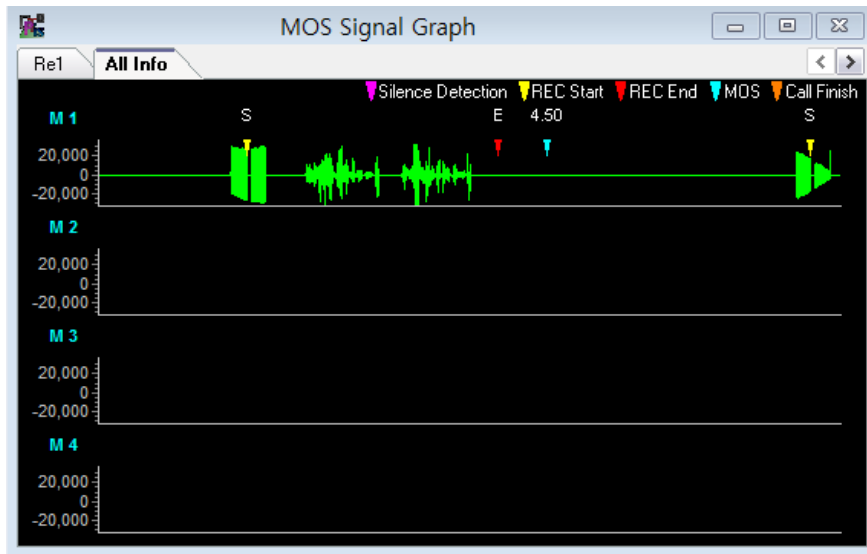
☐ Recording Only ☐ Silence Check 300 ms

Added to display Silence detection to MOS Signal Graph by distinguishing Silence section.

- Standard : When sound pressure value -1000 ~ 1000 is received within configured time

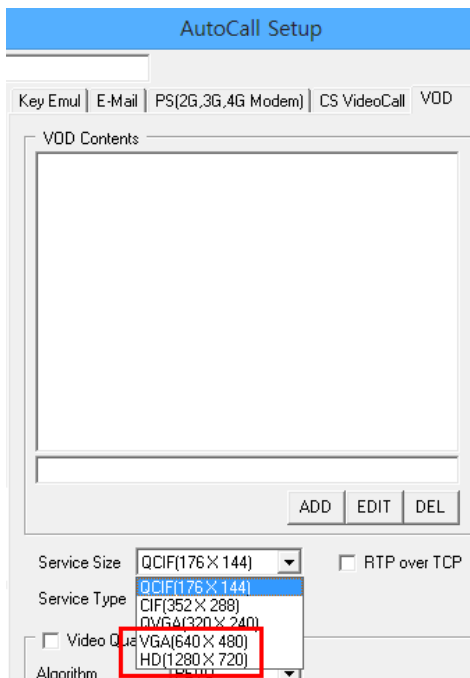
Title	All Info tab	CRM#	
Description of Enhancement/Fixes			

Added All Info tab to MOS Signal Graph window.



Title	HD Video (1280X720), VGA(640X480) MOS measurement	CRM#	
Description of Enhancement/Fixes			

Added HD Video (1280X720), VGA(640X480) MOS measurement feature.

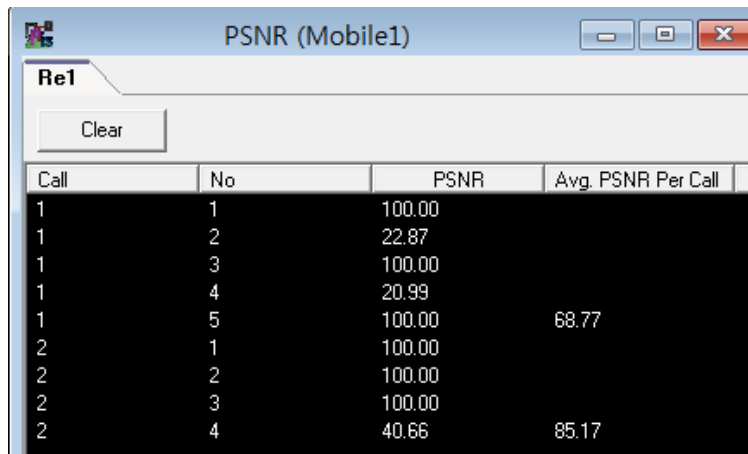


Title	POLQA v2.4 and POLQA Library v1.18	CRM#	
Description of Enhancement/Fixes			

Applied POLQA v2.4 and POLQA Library v1.18.

Title	Save Still Image	CRM#	
Description of Enhancement/Fixes			

Added window to save Still Image of each frame in Video Phone video and VOD, and display PSNR calculation value.



The screenshot shows a window titled "PSNR (Mobile1)" with a "Re1" tab and a "Clear" button. Below the button is a table with the following data:

Call	No	PSNR	Avg. PSNR Per Call
1	1	100.00	
1	2	22.87	
1	3	100.00	
1	4	20.99	
1	5	100.00	68.77
2	1	100.00	
2	2	100.00	
2	3	100.00	
2	4	40.66	85.17

- VOD is available for only Qualcomm Chipset mobile.
- Video Phone is available for only Samsung Chipset mobile.
- VOD Still Image Location : \OPTis-S\VODTemporary\PSNR\
- Video Phone Still Image Location : \OPTis=S\SamsungVideoCall\

Title	Video Phone	CRM#	
Description of Enhancement/Fixes			

Changed Video Phone menu.

<Deleted Window>

- Receive Screen
- Send Screen
- Reference Screen
- Summary Graph
- CODEC Information Table
- Call Statistics
- Video Call Statistics
- Quality Metrics

■ H.324m Statistics

<Added Window>

■ Video MOS Statistics

Video MOS Statistics (Mobile1)						
Ret	Mos~4.0	4.0~3.0	3.0~2.0	2.0~0	No MOS Call	Total Call
						MOS_AVR
By Call						
Time	Start	End	Result	MOS	Avg MOS	

XCAL-SMART

Title	Air Drop Declaration	CRM#	
Description of Enhancement/Fixes			

Added Air Drop declaration.

Title	Setup Fail Cause	CRM#	
Description of Enhancement/Fixes			

Added Setup Fail Cause.

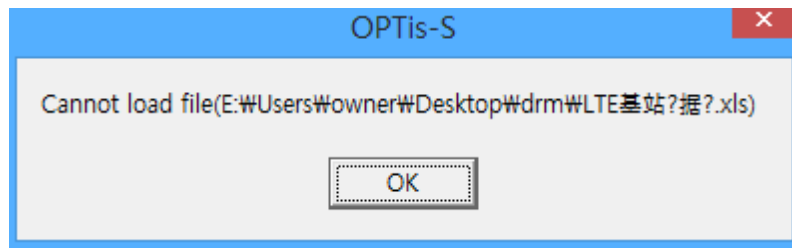
Declare when Activate default EPS bearer context accept as a response to Activate default EPS bearer context request within Traffic Setup time does not exists.

■ Setup Fail - Activate default EPS bearer Phase Failure

Real Time Mapping

Title	BTS Information	CRM#	
Description of Enhancement/Fixes			

Implemented to alert a pop-up window when BTS information in BTS Manager window cannot read the saved file.



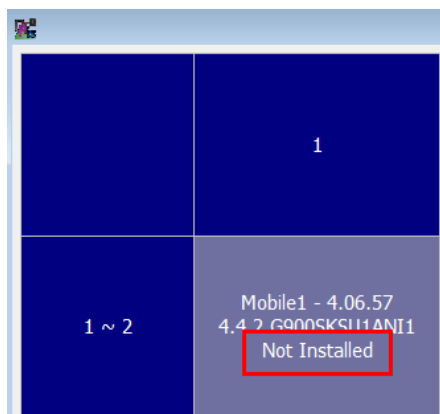
Changed

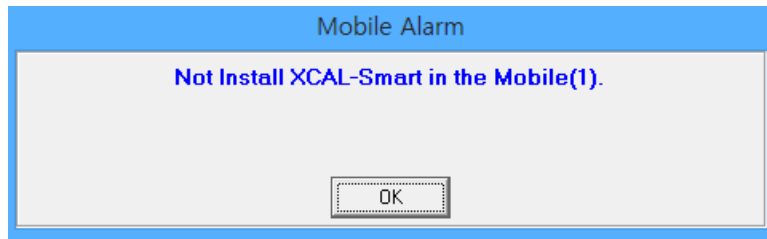
Changed functions in this version are listed.

Common

Title	Not Installed in Smart App Status window	CRM#	
Description of Enhancement/Fixes			

Changed to display Pop-up window displaying Not Installed in Smart App Status window when XCAL-Smart is not installed. Also changed to not reattempt connection.





Title	XCAL-Smart Update Process	CRM#	
Description of Enhancement/Fixes			

Changed to display XCAL-Smart Update process in Smart App Status.

Title	Display Message in Detail Message tab	CRM#	
Description of Enhancement/Fixes			

Changed to display Message in Detail Message tab of Call Statistics (Current Scenario) window classified by Scenario when processing Autocall with Multi – Session.

3G_CS_PS_L_ps - FTP 3G_CS_PS_ps - FTP apphttp - HTTP Email_APP - EMail All									
Call type	Idle	Setup	Frame Setup	Traffic					
FTP NT	3 / 3	0 / 20	0 / 20	2 / 50					
Total	Success	Setup Fail	Traffic Fail	Drop	Pending				
1 / 1	0 (0%)	1 (100%)	0 (0%)	0 (0%)	0 (0%)				
Setup Fail Reason									
Dial	LCP	Auth	IPCP	Logon	Unknown				
Traffic Fail Reason									
Connect	Change Dir	File Open	Time Out	Unknown					
0%									
No	Start Time	End Time	Result	Cause	Scenario	CallType	Work Type	App Throughput(Kbps)	Info (D-Dial, L-LCP, A-Auth)
1	12:42:48.574	12:43:06.072	Traffic Fail	CD Fail	_CS_PS_L_app FTP NT	Down	20.59	Setup:0.00, Traffic:2.00,	
Time	Status	Contents							
12:42:48.728	rrcConnectionSetupComplete	UL, LTE							
12:42:48.728	rrcConnection Setup	DL, LTE							
12:42:48.754	Security Mode Command	DL, LTE							
12:42:48.754	security Mode Complete	UL, LTE							
12:42:48.754	rrcConnection Reconfiguration	DL, LTE							
12:42:48.755	rrcConnection Reconfiguration	UL, LTE							
12:42:50.824	Traffic Fail - CD Fail								
12:42:50.825	Release Start								
12:43:02.923	rrcConnection Release	DL, LTE							
12:43:05.658	Release End	0							
12:43:06.072	Call End								
12:43:06.072	Multi Session End								

Title	Exclude alarm release condition	CRM#	
Description of Enhancement/Fixes			

Changed to exclude alarm release condition for Socket open when syncing with XCAL-Smart.

Title	Automatically click OK button	CRM#	
Description of Enhancement/Fixes			

Changed automatically click OK button after 5 seconds in Information pop-up window when executing OPTis.

Title	Count Packets to PPP Frame Message window	CRM#	
Description of Enhancement/Fixes			

Added feature to Count Packets to PPP Frame Message window.

Time(msec)	Chipset Time	Type	Source	Destination	Protocol	Port	Seq Num	Ack Num	Description
14:41:00.576	14:41:00.644	Tx	223.54.29.243	113.217.230.30	TCP	38872 > 21	444615717		38872 > ftp [
14:41:00.777	14:41:00.843	Rx	113.217.230.30	223.54.29.243	TCP	21 > 38872	232162472	444615718	ftp > 38872 [
14:41:00.778	14:41:00.845	Tx	223.54.29.243	113.217.230.30	TCP	38872 > 21	444615718	232162473	38872 > ftp [
14:41:00.805	14:41:00.872	Rx	113.217.230.30	223.54.29.243	FTP	21 > 38872	232162473	444615718	Response: 2
14:41:00.808	14:41:00.874	Tx	223.54.29.243	113.217.230.30	TCP	38872 > 21	444615718	232162507	38872 > ftp [
14:41:00.809	14:41:00.885	Tx	223.54.29.243	113.217.230.30	FTP	38872 > 21	444615718	232162507	Request: US
14:41:00.825	14:41:00.902	Rx	113.217.230.30	223.54.29.243	TCP	21 > 38872	232162507	444615731	ftp > 38872 [
14:41:00.827	14:41:00.902	Rx	113.217.230.30	223.54.29.243	FTP	21 > 38872	232162507	444615731	Response: 3
14:41:00.838	14:41:00.909	Tx	223.54.29.243	113.217.230.30	FTP	38872 > 21	444615731	232162541	Request: PA
14:41:00.879	14:41:00.940	Rx	113.217.230.30	223.54.29.243	FTP	21 > 38872	232162541	444615750	Response: 2
14:41:00.889	14:41:00.957	Tx	223.54.29.243	113.217.230.30	FTP	38872 > 21	444615750	232162564	Request: FE

Title	Attempt BEL Connection Start Reg	CRM#	
Description of Enhancement/Fixes			

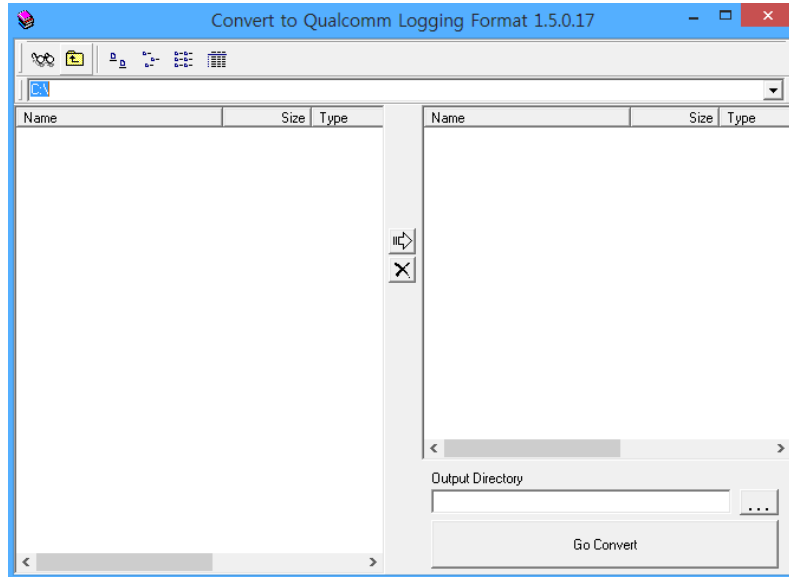
Changed to attempt BEL Connection Start Req when CMD is 194 while directly executing BLE Connection from Mobile.

Title	Execute the selected Mobile	CRM#	
Description of Enhancement/Fixes			

Changed to execute the selected Mobile when executing Get List feature in Smart App BluetoothLE Status window.

Title	Deleted option from Convert to DLF (Qc format)	CRM#	
Description of Enhancement/Fixes			

Deleted option from Convert to DLF(Qc format).



Title	Export Import feature	CRM#	
Description of Enhancement/Fixes			

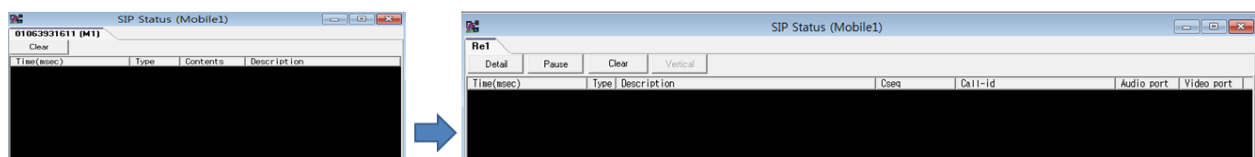
Changed Export Import feature of Autocall Scenario Setting window.

- Existing : Export and import for CallConfig.ini
- Changed : CallConfig.ini, AndroidScenario Folder, AutoCallSetting Alias Folder, AutoCallSetting FileList Folder export and import

Title	SIP Status window	CRM#	
Description of Enhancement/Fixes			

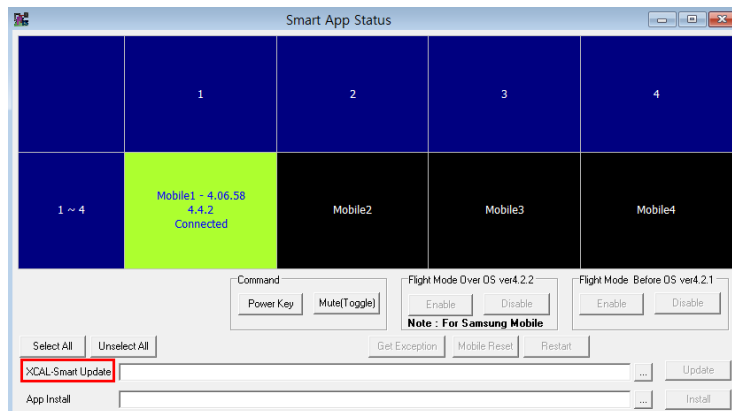
Changed display information of SIP Status window in VoIP menu.

Refer to Mobile IP Packet Message for the corresponding information.



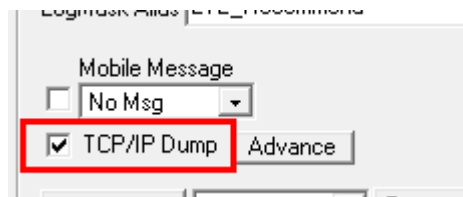
Title	To XCAL-Smart Update	CRM#	
Description of Enhancement/Fixes			

Changed name for App update of Smart App Status window to XCAL-Smart Update.



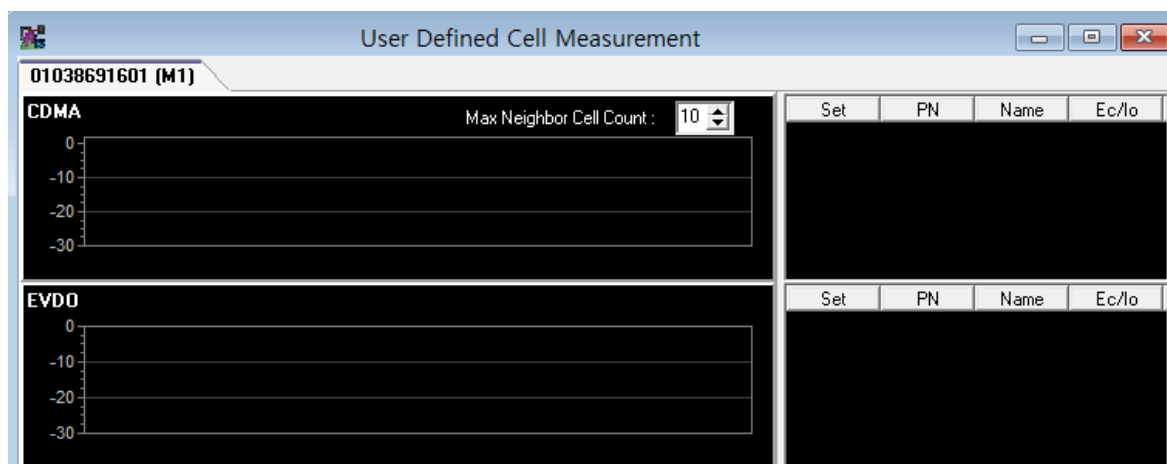
Title	TCP/IP Dump	CRM#	
Description of Enhancement/Fixes			

Changed the name of WAP(Protocol Services) Data.



Title	Max Neighbor Cell Count	CRM#	
Description of Enhancement/Fixes			

Limited Max Neighbor Cell Count to 10 in CDMA/EVDO User Defined Cell Measurement window.



AutoCall

Title	Call Start Point	CRM#	
Description of Enhancement/Fixes			

Changed Call Start point to Android Shell Command after Dial command in case of Voice Call.

Title	App – Iperf Mode	CRM#	
Description of Enhancement/Fixes			

Chagned to inactivate some items according to App – Iperf mode.

- Mode : Inactivate TCP -> UDP Throughput
- Mode : Inactivate UDP -> Max Seg. Size

Title	AutoCall Scenario	CRM#	
Description of Enhancement/Fixes			

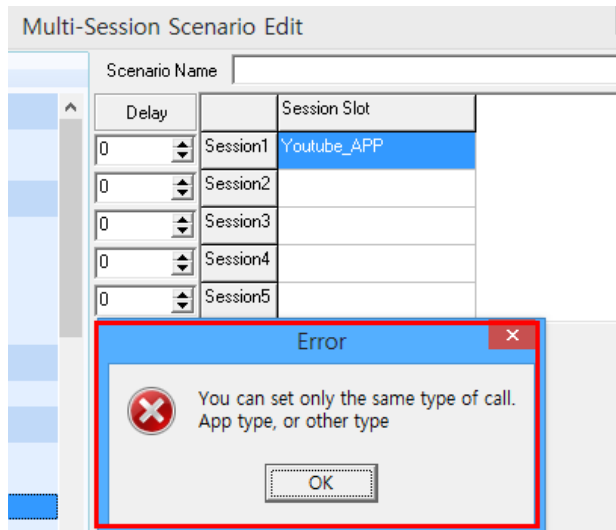
Changed to allow arrangement of Autocall Scneario according to Android version when Voice – VoWiFi.

Changed to display pop-up window when inappropriate Scenario is arranged.

- When Android version is below 4.3,
 - ◆ The BLE Works over Android 4.3. You need to update for device firmwae.
- When Smar DM(APP) Interface is inactive in Port Setting,
 - ◆ The BLE works on XCAL-Smart. Make sure “Smart DM(App) Interface” option is checked.

Title	Prevent mixing App and other Call Type	CRM#	
Description of Enhancement/Fixes			

Edited to prevent mixing App and other Call Type in Multi-Session.

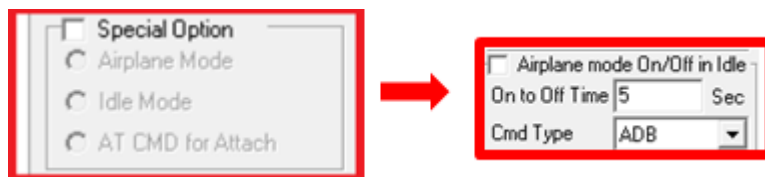


Title	Declare Traffic Start Point	CRM#	
Description of Enhancement/Fixes			

Changed to declare Traffic Start point as a point where 200OK appears when RTP Port is unknown during VoLTE Autocall.

Title	Special Option	CRM#	
Description of Enhancement/Fixes			

\Deleted existing Special Option and added Airplane mode On/Off in Idle feature in App tab.



Title	Traffic Time	CRM#	
Description of Enhancement/Fixes			

Changed to add +5 seconds to user configured Traffic Time to set as Traffic Time in case of App – Iperf.

Title	MOS Statistics and PESQ or POLQA Information saving format	CRM#	
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Description of Enhancement/Fixes

Changed MOS Statistics and PESQ or POLQA Information saving format in Autocall Scenario Setting.

Title	PLMN Searching	CRM#
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Description of Enhancement/Fixes

Changed to display as PLMN Searching for Work Type in PLMN Searching Autocall of ADB Script.

Title	Iperf Daemon control Protocol	CRM#
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Description of Enhancement/Fixes

Fixed Iperf Daemon control protocol as TCp and hided UI for Iperf, App-Iperf.

Title	Direction Dual Mode	CRM#	
Description of Enhancement/Fixes			

Deleted Direction Dual Mode for App-Iperf.

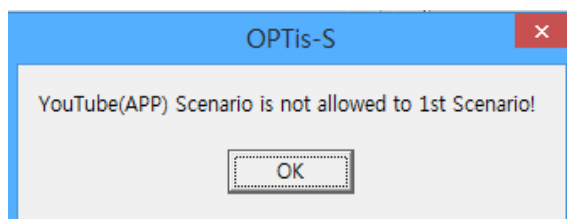
Title	App Scenario	CRM#	
Description of Enhancement/Fixes			

Edited to allow configuration of certain App Scenario as 1st Scenario of Multi RAB.

- FTP(App)
- FTP NT (App)
- iperf(App)
- ping(App)
- HTTP(App)

Title	Youtube (app)	CRM#	
Description of Enhancement/Fixes			

Youtube(App) cannot be configured as 1st Scenario.



Qualcomm Chipset

Title	UL PUSCH Throughput, UL MAX Throughput Calculation	CRM#	
Description of Enhancement/Fixes			

Edited UL PUSCH Throughput, UL MAX Throughput Calculation method.

Intel

Title	Chipset time display	CRM#	
Description of Enhancement/Fixes			

Changed Chipset time display method of Intel Message.

Title	Stop logging ISTP	CRM#	
Description of Enhancement/Fixes			

Changed to stop logging ISTP in Client for Multi products.

MOS

Title	Sync Interval	CRM#	
Description of Enhancement/Fixes			

Changed Sync interval to sound source length +4 seconds in GPS Time Sync Half-Duplex.

Changed Recording Sync interval to +3.5 seconds.

Changed to execute Play Start 2 seconds after Sync Interval start point.

Title	Reference Location of Call Result Value	CRM#	
Description of Enhancement/Fixes			

Changed reference location of Call Result value displayed in MOS History tab.

- Existing: Call Statistics Window
- Changed: By Call of MOS Statistics window

Title	Start section	CRM#	
Description of Enhancement/Fixes			

Changed Start section of Silence Check.

- Existing: Traffic Start
- Changed: Traffic Start + 2 seconds

Title	Changed to log selected sound source	CRM#	
Description of Enhancement/Fixes			

Changed to log selected sound source when Play Sound feature is activated.

Title	Call Result	CRM#	
Description of Enhancement/Fixes			

Changed Call Result of declaring Silent region.

- Existing : Skip Call
- Change : Success

Cause displays "Silence + Count".

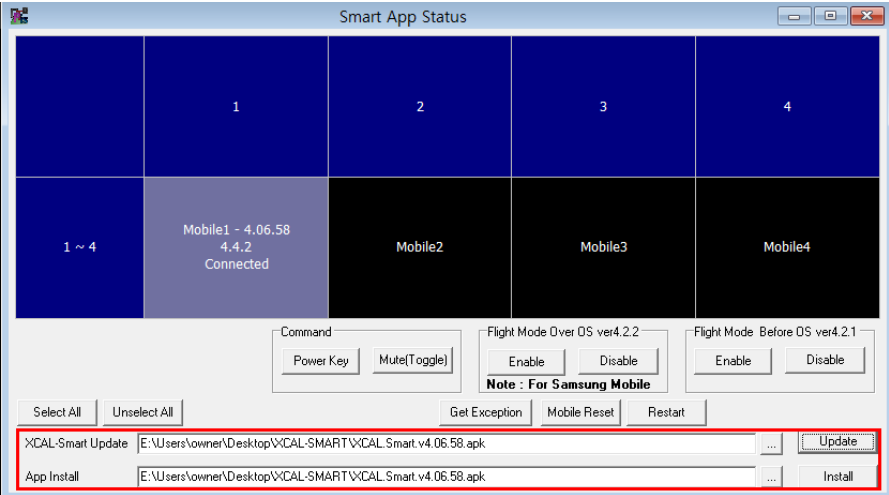
Title	Declaration condition to receive sound signal	CRM#	
Description of Enhancement/Fixes			

Changed declaration condition to receive sound signal from Mobile in MOS Play section.

XCAL-SMART

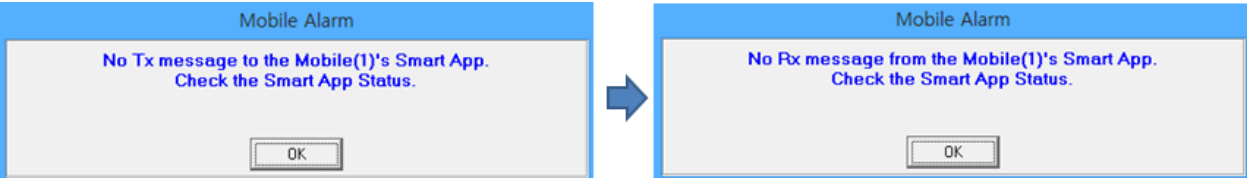
Title	Install after deleting XCAL-Smart	CRM#	
Description of Enhancement/Fixes			

Changed to install after deleting XCAL-Smart when updating or installing XCAL-Smart.



Title	XCAL-Smart fails to sync	CRM#	
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Changed pop-up window content when XCAL-Smart fails to sync.



Fixed

Corrected bugs are listed.

Common

Title	Find feature (Ctrl + F)	CRM#	
Description of Enhancement/Fixes			

Fixed to prevent Find feature (Ctrl + F) from crashing in Signaling Message window.

Title	CPU usage and Memory	CRM#	
Description of Enhancement/Fixes			

Fixed to prevent large increase in CPU usage and Memory when conducting Autocall for multiple mobiles.

- Added Buffer Reset feature to process UI
- Edited to process as MOS Delay related Graph file

AutoCall

Title	Freezing AT command	CRM#	
Description of Enhancement/Fixes			

Fixed to prevent freezing AT Command when measuring Multi RAB.

Qualcomm Chipset

Title	WQ Mobile Info and LTE-Q Mobile Info	CRM#	
Description of Enhancement/Fixes			

Fixed to correctly display the values in WQ Mobile Info and LTE-Q Mobile Info.

XCAL-SMART

Title	Skip Call without declaring Setup Fail	CRM#	
Description of Enhancement/Fixes			

Fixed to prevent Skip Call without declaring Setup Fail as Call result when measuring FTP / Ping.

Proprietary & Confidential

No	Start Time	End Time	Result	Cause	Scenario	CallType	Work Type	App Throughput(Kbps)	Info (D:Dial, L:LCP, A:Auth, I:IPCP, P:PF)
2	18:45:52.060	18:45:58.487	TrafficFail	Below Success R	ping app	App Ping	Ping		Setup:0.00, RTT(Min):0ms, RTT(Max):0
3	18:46:18.956	18:46:20.629	TrafficFail	TimeOut	test INNO L	App FTP	Up		Setup:0.02 (), RRC:0.07, RRC_Conn
4	18:46:41.038	18:46:42.806	TrafficFail	TimeOut	test INNO C	App FTP	Down		Setup:0.01 (), RRC:0.00, RRC_Conn
5	18:46:44.165	18:46:50.633	TrafficFail	Below Success R	ping app	App Ping	Ping		Setup:0.00, RTT(Min):0ms, RTT(Max):0
6		18:46:53.988	End by user	End By User	test INNO L	App FTP	Up		(), RRC_Conn_Release:0



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