

XCAL-

Mobile/Solo/Harmony

Release Note

Doc Rev: 8

**Product Version: 4.13.651 &
2.01.201**

Date: 2017. 07

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About Release Note

This Release Note documentation announces new features, fixed bugs, changes, and removed function of XCAL-Mobile. This Release Note is provided with 5 types; **Addition**, **Change**, **Bug Fix**, **ETC**, and **Known Issue**.

For details of XCAL-Mobile/Solo/Harmony usage, refer to *XCAL-Mobile/Solo/Harmony User Guide* which is provided upon purchase.

Revision History

Rev.	Product Version	Date of Release	Note
0	XCAL-Mobile/Solo: 4.13.202	2015 Oct	
	XCAL-Harmony:		
1	XCAL-Mobile/Solo: 4.13.366	2016 Apr	
	XCAL-Harmony: 2.01.115		
2	XCAL-Mobile/Solo: 4.13.390	2016 May	
	XCAL-Harmony: 2.01.121		
3	XCAL-Mobile/Solo: 4.13.408	2016 Jun	
	XCAL-Harmony: 2.01.129		
4	XCAL-Mobile/Solo: 4.13.512	2016 Sep	
	XCAL-Harmony: 2.01.154		
5	XCAL-Mobile: 4.14.014	2017 Feb	

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Rev.	Product Version	Date of Release	Note
6	XCAL-Mobile/Solo: 4.13.605	2017 Mar	
7	XCAL-Mobile/Solo: 4.13.616	2017 Apr	
	XCAL-Harmony: 2.01.187		
8	XCAL-Mobile/Solo: 4.13.651	2017 Jul	
	XCAL-Harmony: 2.01.201		

Contents

About Release Note	2
Revision History	2
Contents	4
Newly Supported Terminals	6
Netflix Call Supported Terminals	6
XCAL-Mobile/Solo Version:4.13.651	7
Specifications.....	7
Addition	7
XCAL-Harmony Version: 2.01.201	10
Specifications.....	10
Addition	10
Change	15
Bug Fix	15
XCAL-Mobile/Solo Version:4.13.616	19
Specifications.....	19
Addition	19
Change	22
Bug Fix	24
XCAL-Harmony Version: 2.01.187	27
Specifications.....	27
Addition	27
Change	30

Bug Fix	32
XCAL-Mobile/Solo Version: 4.13.610 and 4.15.21	35
Specifications.....	35
Addition	35
XCAL-Mobile/Solo Version: 4.13.605	36
Specifications.....	36
Addition	36
Bug Fix	38
XCAL-Mobile/Solo Version: 4.15.014	43
Specifications.....	43
Addition	43
Change	55
Bug Fix	55
ETC	58
XCAL-Mobile/Solo Version: 4.13.512	58
Specifications.....	58
Addition	58
Change	67
Technical Support	68

Newly Supported Terminals

Product	Device List	
	Manufacturer	Device Name
XCAL-Mobile	Samsung	Galaxy S7 Edge+ (SCV33) Galaxy S7 Edge+ (SC-02H) Galaxy S5 (SM-G906S) Galaxy S5 (SM-G906K) Galaxy J5 (SM-J500G) Galaxy J5 (SM-J500F) Galaxy J5 (SM-J510GN) Galaxy S5 (SM-G9006V/) Galaxy S5 (SM-G9008V) Galaxy S5 (SM-9009W) Galaxy S5 LTE-A (SM-G900R7) Galaxy S6 (SM-G920F) Galaxy S6 (SM-G9208) Galaxy S6 (SC-05G) Galaxy S6 (SM-G920L) Galaxy S6 (SM-G920K) Galaxy S6 Edge (404SC) Galaxy S6 Edge (SM-G925F) Galaxy S6 Edge (SM-G925J) Galaxy S6 Edge+(SM-G928F) Galaxy 7 (SM-G930F) Galaxy Note4 (SM-N910V) Galaxy Note4 (SM-N910G) Galaxy Note4 Edge (SM-N915G) Galaxy Note4 Edge (SM-N9150) Galaxy Note5 (SM-N9200) Galaxy Note5 (SM-N9208)
	LG	LG G5 (H850) LG G3 (D855) LG G4 (H815) LG G Flex2 (H955)
	ETC	Sony Xperia X Performance (F8131/F8132) Sony Xperia XZ (F8331) Sony Z5 Compact (E5823) Sony Xperia Z5 Premium (E6853) Sony Xperia Z5 (E6653) HTC One M9 HTC 10 (M10h) Sharp SH-01H Asus ZenFone3 Ultra (Asus_A001)

Netflix Call Supported Terminals

- Netflix License Required

Product	Device List	
	Manufacturer	Device Name
XCAL-Mobile	LG	LG G5(H850)
	ONEPLUS	ONEPLUS A3003

XCAL-Mobile/Solo Version:4.13.651

Date of Release: JUL 2017

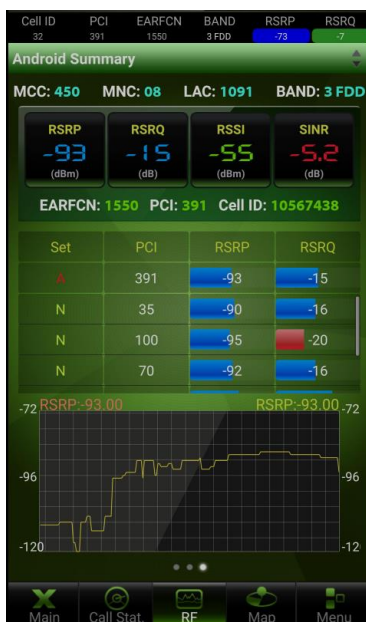
Specifications

- Technology: CDMA/EVDO, WCDMA, LTE , GSM, TD-SCDMA
- Operating System Supported: Android OS up to Nougat v7.0
- Compatibility: XCAL-Solo v4.13.651

Addition

Title	Addition of EARFCN/Band in Android Summary Info		
Product	XCAL-Mobile	Requestor	AJ
Chipset	No Chip	CRM#	NEW 564
Location	[RF] - [Android Summary]		
Description of Enhancement/Fixes			

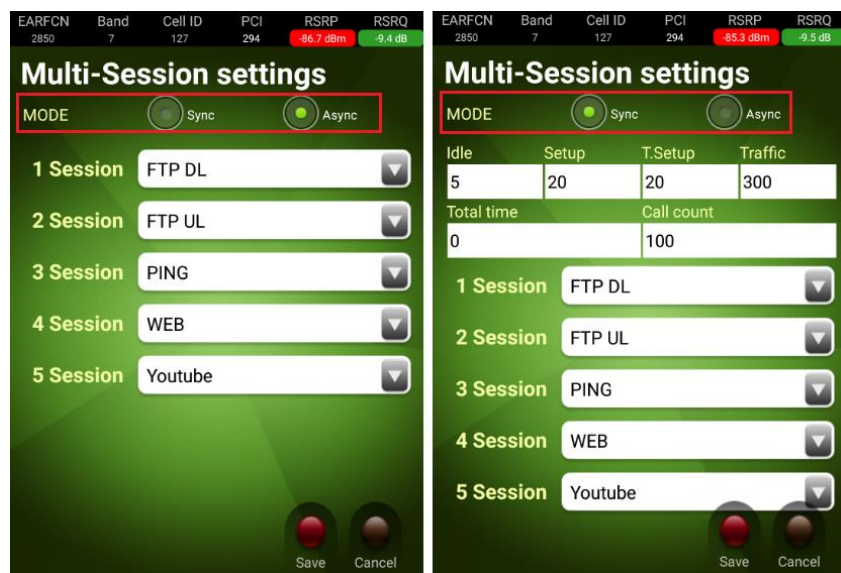
- getEarfcn() is added from Android Platform API 24.
- Band is calculated based on Band Mapping of EARFCN.



Title	Addition of Async Mode for Multi Session		
Product	XCAL-Mobile, Solo, Harmony	Requestor	AA
Chipset	No Chip	CRM#	NEW_575
Location	Multi Session		
Description of Enhancement/Fixes			

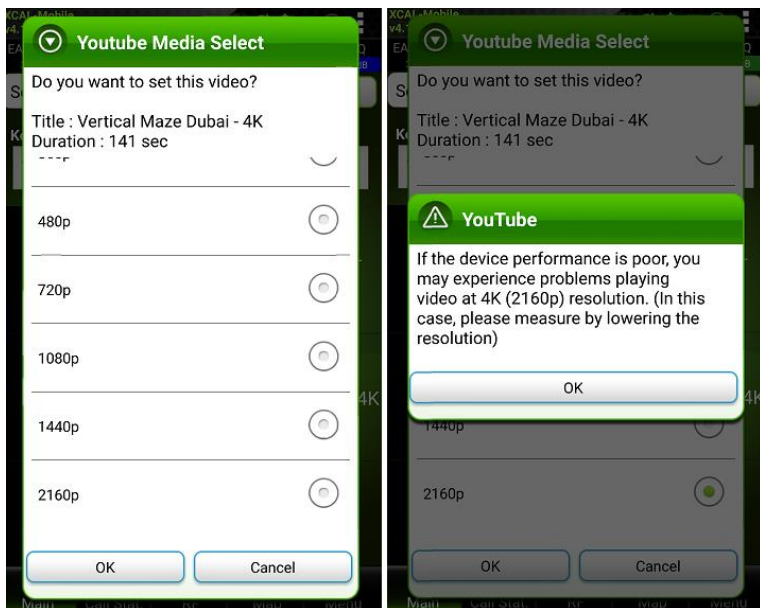
Added the Async mode for the Multi-Session call.

Async mode processes AutoCall test based on the pre-configured session scenario including timer setting and call count. Async mode does not synchronize all sessions.



Title	Addition of the Selection of Test Resolution of Youtube-Quality Mode Fixed (up to 4k)		
Product	XCAL-Mobile/Solo	Requestor	EMEA
Chipset	Common	CRM#	BUG_2545
Location	[Autocall]		
Description of Enhancement/Fixes			

For Youtube-Quality Mode Fixed test, added to select the resolution of the assigned test screen. (In some cases, test screen in 4k resolution are unable to be properly played depending on test UE performance.)



Title	Declaration of Call Success taking into account SMS Number		
Product	XCAL-Mobile/Solo	Requestor	EMEA
Chipset	Common	CRM#	BUG_2551
Location	[Autocall]		
Description of Enhancement/Fixes			

The existing SMS call declares reception success event based on only the message contents at the Receive stage. In addition to this, new SMS call pre-configures SNS Number in Receive Type, compares the dialed number with the number pre-configured, and determines to ignore the messages which do not match.



XCAL-Harmony Version: 2.01.201

Date of Release: JUL 2017

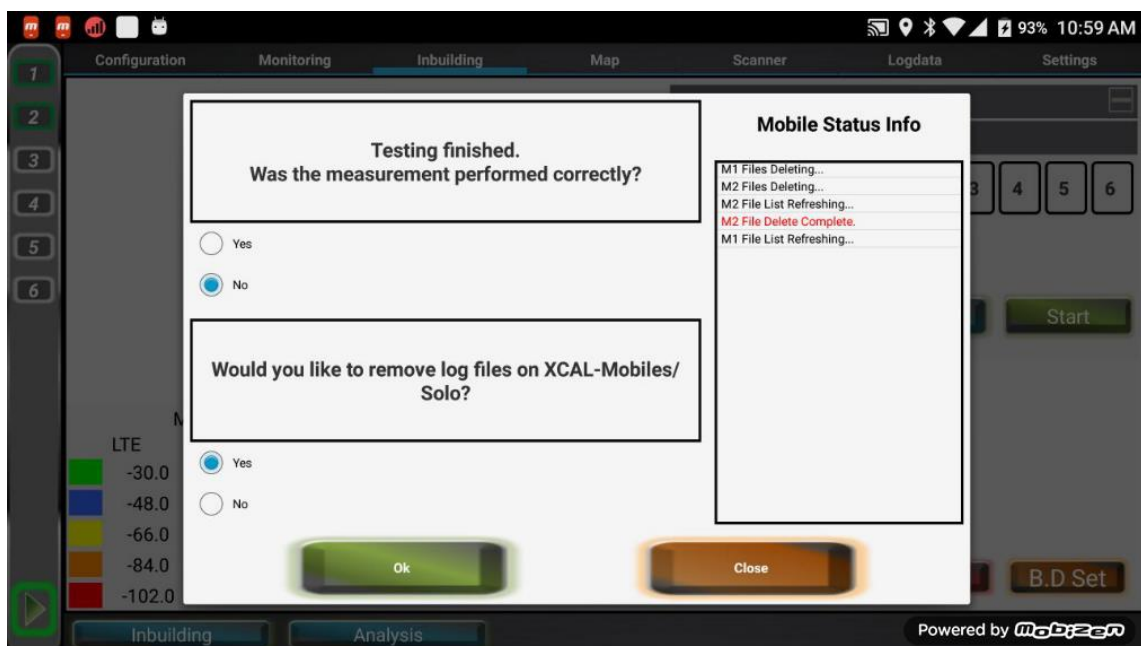
Specifications

- Technology: CDMA/EVDO, WCDMA, LTE , GSM, TD-SCDMA
- Operating System Supported: Android OS up to Nougat v7.0
- Compatibility: XCAL-Harmony v2.01.201

Addition

Title	Log File Process for Inbuilding Result		
Product	XCAL-Harmony	Requestor	AE
Chipset		CRM#	NEW 557
Location	[Setting] - [Inbuilding]		
Description of Enhancement/Fixes			

- Activated only when [Setting] – [Inbuilding] – [Inbuilding Result Confirm] option is set to [On].
- Once Inbuilding test is completed, the created logging file can be deleted or not.



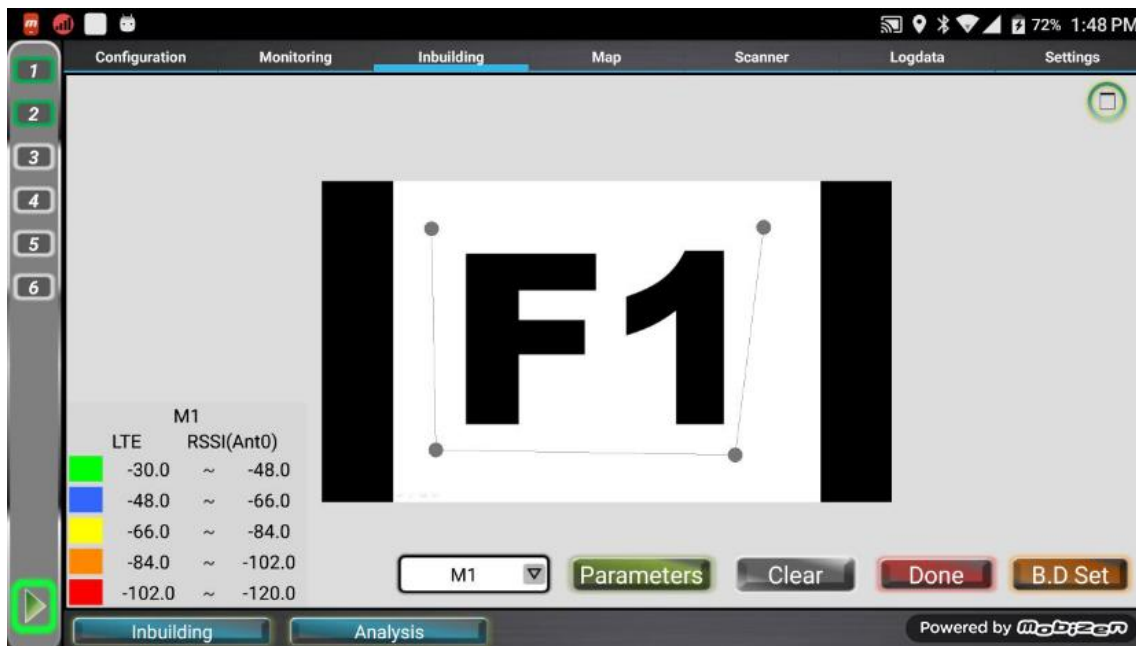
Title	Location and Upload of Scanner Logging File		
Product	XCAL-Harmony	Requestor	AE
Chipset		CRM#	NEW_558
Location	[Logdata]		
Description of Enhancement/Fixes			

Log file of scanner can be found and uploaded in [Logdata] tab.



Title	Inbuilding Route Save		
Product	XCAL-Harmony	Requestor	AE
Chipset		CRM#	NEW_559
Location	[Setting] - [Inbuilding]		
Description of Enhancement/Fixes			

- Activated only when [Setting] – [Inbuilding] – [Inbuilding Route Recording] option is set to [On].
- If selecting [Done] during Inbuilding test, it converts the test routes in gray color and saves until the [Clear] button is selected.



Title	Addition of User Guide in About menu		
Product	XCAL-Harmony	Requestor	EMEA
Chipset	Common	CRM#	NEW_565
Location	[Settings] - [About]		
Description of Enhancement/Fixes			

Added XCAL-Harmony User Guide in About menu.



Title	Scan All ID button does not activate all ID only selected ID		
Product	XCAL-Harmony	Requestor	EMEA
Chipset		CRM#	BUG_2510
Location	[Scanner - DRT]		

Description of Enhancement/Fixes



- Scan selected IDs: Request to scan for the selected SCAN ID only.
- Scan all IDs: Request to scan for all SCAN ID (Existing function has only requested the selected SCAN ID.)

Title	Make XCAL-Harmony able to work with scanner only for Inbuilding and Map		
Product	XCAL-Harmony	Requestor	EMEA
Chipset		CRM#	BUG_2511
Location	[Scanner]		




Description of Enhancement/Fixes

Added to crate scanner log data by tapping AutoCall button in XCAL-Harmony.

The color of AutoCall button changes color in accordance with the description table below.

The AutoCall button turns to green color only when the scanner is in RF scanning status. If it is tapped, scanner logdata is generated.

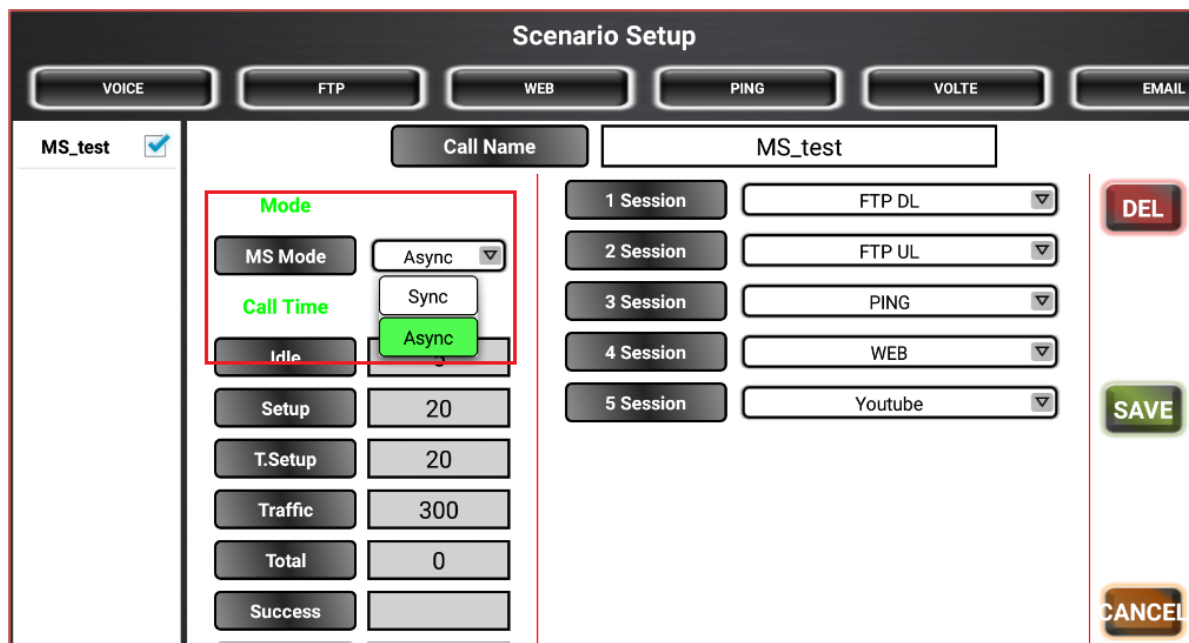
(Existing function uses Logging button in Scanner tab while only scanner is synced.)

Harmony Button	Mobile Side	Scanner Side
Red 	Idle - No device - Connected device	Idle - No device - Connected scanner - Scanning set
Green 	Ready - Scenario set	Ready - RF scanning
Yellow 	Play - Autocall start	Play - Manual Logging

Title	Addition of Async Mode for Multi Session		
Product	XCAL-Mobile, Solo, Harmony	Requestor	AA
Chipset	No Chip	CRM#	NEW_575
Location	Multi Session		
Description of Enhancement/Fixes			

Added the Async mode for the Multi-Session call.

Async mode processes AutoCall test based on the pre-configured session scenario including timer setting and call count. Async mode does not synchronize all sessions.



The screenshot shows the 'Scenario Setup' interface for a scenario named 'MS_test'. The interface includes tabs for VOICE, FTP, WEB, PING, VOLTE, and EMAIL. The 'Call Name' is 'MS_test'. The 'Mode' is set to 'Async'. The 'Call Time' is set to 'Async'. The 'Idle' time is set to 20. The 'Setup' time is set to 20. The 'T.Setup' time is set to 20. The 'Traffic' is set to 300. The 'Total' is set to 0. The 'Success' is set to 0. The '1 Session' is set to 'FTP DL'. The '2 Session' is set to 'FTP UL'. The '3 Session' is set to 'PING'. The '4 Session' is set to 'WEB'. The '5 Session' is set to 'Youtube'. The interface also includes 'DEL', 'SAVE', and 'CANCEL' buttons.

Change

Title	XCAL-Harmony should check Scanner license before Scanner H/W Change pop-up		
Product	XCAL-Harmony	Requestor	AE
Chipset		CRM#	MOD_589
Location	[Scanner]		
Description of Enhancement/Fixes			

In case if there only exists PCTEL for Scanner License, the Scanner HW selection screen does not pop up.

Bug Fix

Title	XCAL-Harmony stuck with GPS Information Unknown and Autocall running		
Product	XCAL-Harmony	Requestor	AE
Chipset		CRM#	BUG_2493
Location			
Description of Enhancement/Fixes			

- Deleted GPS alarm in tablet.
- Amended to terminate XCAL-Mobile by using Call Start command in XCAL-Harmony while it is in Logging status.

Title	Rename of GSM Band of DRT Scanner		
Product	XCAL-Harmony	Requestor	AE
Chipset		CRM#	BUG_2494
Location	[Scanner] - [DRT Setting]		

Description of Enhancement/Fixes

Renamed R-GSM 900 of GSM Band to GSM 900.

Title	GSM Setting Error in DRT Scanner		
Product	XCAL-Harmony	Requestor	AE
Chipset		CRM#	BUG_2495
Location	[Scanner] - [DRT Setting]		

Description of Enhancement/Fixes

Fixed to properly save the GSM C/I selection result.

Title	WCDMA Setting Error in DRT Scanner		
Product	XCAL-Harmony	Requestor	AE
Chipset		CRM#	BUG_2496
Location	[Scanner] - [DRT Setting]		

Description of Enhancement/Fixes

Fixed to properly save the selection for WCDMA CPICH SIR, P-SCH Ec/Io, S-SCH Ec/Io.

Title	Scan List Display Error in DRT Scanner		
Product	XCAL-Harmony	Requestor	AE
Chipset		CRM#	BUG_2497
Location	[Scanner] - [DRT Setting]		

Description of Enhancement/Fixes

Fixed the resolution issue for Lenovo PHAB2 Pro model UE.

Title	Bluetooth Connection Error in DRT Scanner		
Product	XCAL-Harmony	Requestor	AE
Chipset		CRM#	BUG_2498
Location	[Scanner] - [DRT Setting]		
Description of Enhancement/Fixes			

Fixed the update information in the connection status of MPS Scanner Service app.

Title	Duplicated Display of Error in DRP Scanner		
Product	XCAL-Harmony	Requestor	AE
Chipset		CRM#	BUG_2499
Location	[Scanner] - [DRT Setting]		
Description of Enhancement/Fixes			

Fixed to display connection error information only once.

Title	GUI in DRT Scanner		
Product	XCAL-Harmony	Requestor	AE
Chipset		CRM#	BUG_2501
Location	[Scanner]		
Description of Enhancement/Fixes			

- Fixed the sample string for inputting Channel data.
- Fixed RSSI string in GSM Scan View.
- Fixed the string for Scan ID List.
- Fixed to display RF value in LTE Scan View.
- Amended the Deactivate string font. (for Lenovo PHAB2 Pro)
- Amended the Scanner connection button size. (for Lenovo PHAB2 Pro)
- Amended the Bluetooth connection button size. (for Lenovo PHAB2 Pro)

- Amended the product name which appears at the initialization from XCAL.Harmony to XCAL-Harmony.

Title	Error on the Option of Naming Log File before AutoCall in DRT Scanner		
Product	XCAL-Harmony	Requestor	AE
Chipset		CRM#	BUG_2509
Location	[Setting] - [Logging Option]		
Description of Enhancement/Fixes			

Fixed the error on the option of Naming Log file before AutoCall.

XCAL-Mobile/Solo Version:4.13.616

Date of Release: Apr 2017

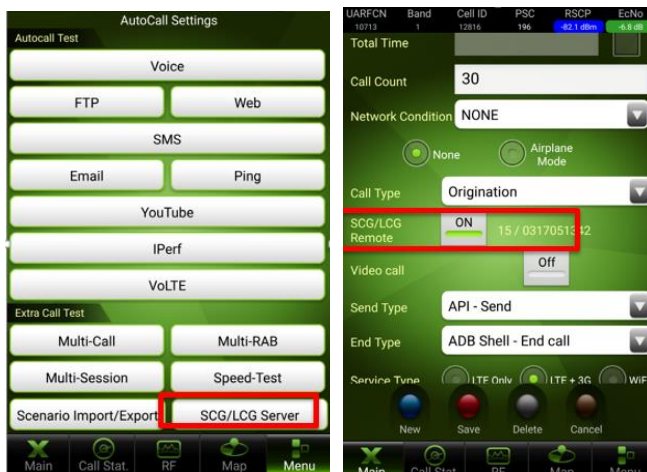
Specifications

- Technology: CDMA/EVDO, WCDMA, LTE , GSM, TD-SCDMA
- Operating System Supported: Android OS up to Nougat v7.0
- Compatibility: XCAL-Solo v4.13.xxx

Addition

Title	Addition of SCG/LCG Remote Control		
Product	XCAL-Mobile/Solo	Requestor	ACCUVER
Chipset	SCG Remote	CRM#	
Location	[AutoCall Settings] – [LCG/SCG Server Setting] button [AutoCall Settings] – [Voice] or [VoLTE] tab - [LCG/SCG Remote] option.		
Description of Enhancement/Fixes			

Added to control Voice/VoLTE call in SCG/LCG remotely from XCAL, XCAL-Mobile/Solo, and etc. For example, AutoCall scenario, AutoCall Start/Stop, Call Result, Call Event, MOS Value, RTP Info measured(Only SCG) are controllable and can be monitored.



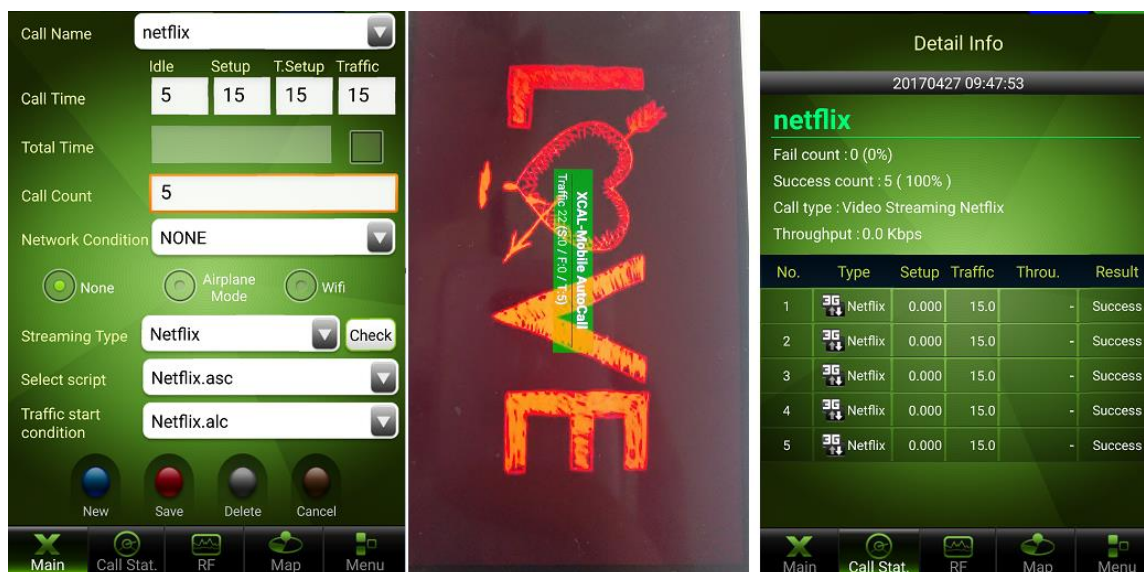
Title	[Quick Guide] LCG/SCG Remote			
작성자	Heuljae Choe	Date	2017-04-10	View
Content	Attached Quick Guide of LCG/SCG Remote			
Attached File List	Quick Guide of LCG/SCG Remote_ENG_170405.pptx [4051004 byte]			

For details, see the Quick Guide uploaded to <http://ncrm.innowireless.co.kr> [Document] – [ETC] – [Quick Guide] LCG/SCG Remote.

Title	Addition of Video Streaming – Netflix Call		
Product	XCAL-Mobile/XCAL-Solo	Requestor	
Chipset	Common	CRM#	
Location	[Autocall]		
Description of Enhancement/Fixes			

Added Netflix Call to test Video Streaming of Netflix.

(Activated in accordance with license key, and may not work in some smartphone models which does not support cmd.

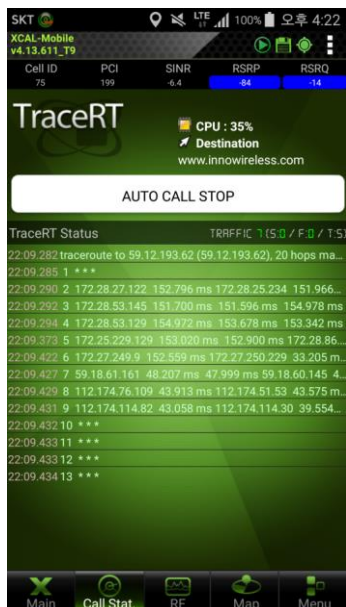


Title	TraceRT Autocall		
Product	XCAL-Mobile	Requestor	AP
Chipset	Common	CRM#	

Location [Autocall]

Description of Enhancement/Fixes

Added an AutoCall type of TraceRT based on TraceRoute Command for Android Java.



Title	Mobile MMS AutoCall		
Product	XCAL-Mobile	Requestor	
Chipset	Common	CRM#	
Location	[Autocall]		

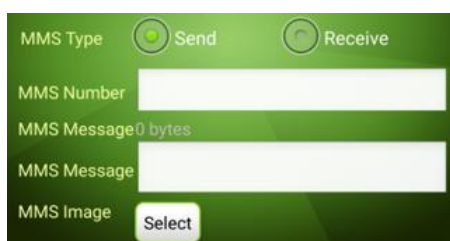
Description of Enhancement/Fixes

Added an AutoCall type of Mobile MMS to transmit image and text by using the smartphone basic application.

As of now, Success is declared for Receive type if any message is received properly.

By May, Success will be declared only when "MMM Message content + space + Call Count Number" is received.

MMS in XCAP is currently under development.



Title	Addition of function to split logfile per repeat count.		
Product	XCAL-Mobile/Solo	Requestor	EMEA
Chipset	All	CRM#	NEW_546
Location	[Scenario] – [Split log file] – [per repeat]		
Description of Enhancement/Fixes			

Added to function to split logfile per repeat count for Multi-Call.

Title	Addition of a Warning Message for the Chipset which does not support Vocoder Packet		
Product	XCAL-Mobile/Solo	Requestor	EMEA
Chipset	Qualcomm chipset	CRM#	MOD_570
Location	[Main] – [Classic]		
Description of Enhancement/Fixes			

Added to pop up a warning message of 'Not Supported' for Snapdragon 820 chipset which does not support Vocoder packet.

Change

Title	Consistent Font Size in Call Name		
Product	XCAL-Mobile/Solo	Requestor	EMEA
Chipset	Common	CRM#	MOD_569
Location	[Main] – [Classic]		
Description of Enhancement/Fixes			

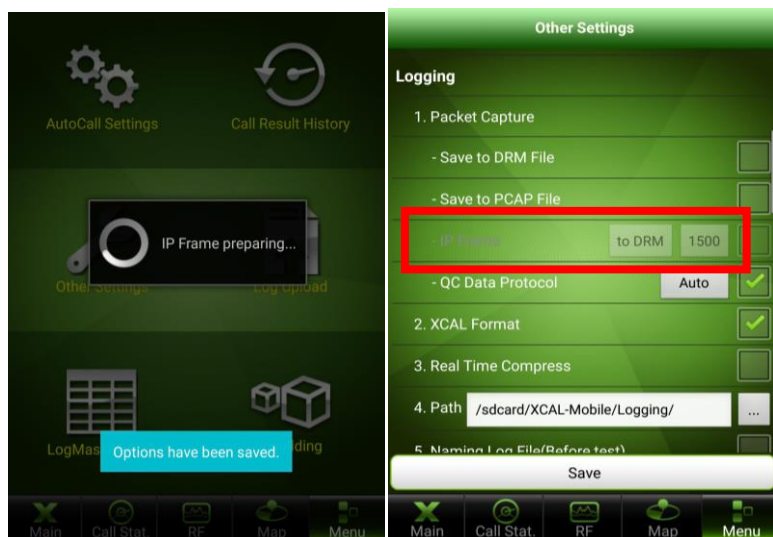
Changed to apply consistent string size in Call Name.

Title	Only One GPS Type Selectable between Internal or Outer GPS		
Product	XCAL-Mobile/Solo	Requestor	EMEA
Chipset	Common	CRM#	QUE_1564
Location	[Other Settings] - [GPS]		
Description of Enhancement/Fixes			

Changed to select only one GPS type between internal GPS or outer GPS.

Title	Inactivation of IP Frame for unsupported UE		
Product	XCAL-Mobile/Solo	Requestor	EMEA
Chipset	Common	CRM#	NEW_542
Location	[Other Settings] - [Logging] - [Packet Capture]		
Description of Enhancement/Fixes			

In case [IP Frame] for Packet Capture is selected, if the UE does not support IP Frame capture, IP Frame option is inactivated.



Title	Iperf AutoCall Setting		
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Product	XCAL-Mobile/XCAL-Harmony	Requestor	AA
Chipset	Common	CRM#	
Location	[Autocall]		
Description of Enhancement/Fixes			

Changed Iperf call setting as follows.

- Addition of Parallel option.
- Option name change to Iperf command.
- Addition of Iperf version.

Title	Addition of Warning Screen for XCAL Format Uncheck		
Product	XCAL-Mobile/Solo	Requestor	EMEA
Chipset	Common	CRM#	BUG_2466
Location	[Other Settings]		
Description of Enhancement/Fixes			

Added to pop up a warning screen if AutoCall or Manual logging is started while XCAL Format is unchecked.

"XCAL Format is unchecked. This can result in timestamp problems. Do you wish to continue measurement? To check XCAL Format, move to [Other Settings] - [Logging] - [XCAL Format]"

Bug Fix

Title	Application of Naming Log File(Before/After AutoCall)		
Product	XCAL-Mobile/Solo	Requestor	EMEA
Chipset	Common	CRM#	BUG_2435
Location	[Other Settings] - [Logging]		

Description of Enhancement/Fixes

Fixed to properly apply Naming Log File(Before/After AutoCall).

Changed this function name from [Before/After AutoCall] to [Before/After Test].

Title	Missing GPS Altitude		
Product	XCAL-Mobile/Solo	Requestor	EMEA
Chipset	Common	CRM#	BUG_2443
Location	[RF] – [Android RF View]		

Description of Enhancement/Fixes

Fixed not to miss GPS altitude information.

Title	XCAL-Harmony crash while turning OFF screen		
Product	XCAL-Harmony	Requestor	EMEA
Chipset	common	CRM#	BUG_2451
Location			

Description of Enhancement/Fixes

Fixed not to convert the screen vertically and terminated forcibly when clicking power button while XCAL-Harmony application is executed.

Title	Naming Log File Before Autocall for Inbuilding		
Product	XCAL-Harmony	Requestor	EMEA
Chipset	common	CRM#	BUG_2453
Location	[Setting] – [Logdata] – [Naming Log file(before Autocall)]		

Description of Enhancement/Fixes

Fixed to pop up a screen for Naming Log File when Inbuilding call is started.

Title	XCAL Mobile freezing on Voice Termination		
Product	XCAL-Mobile	Requestor	EMEA
Chipset	common	CRM#	BUG_2454
Location			
Description of Enhancement/Fixes			

Fixed not to terminate the application forcibly while MOS test is in progress by syncing XCAL-Mobile and Harmony via Bluetooth.

Title	Some POLQA Parameter Logging Missing		
Product	XCAL-Mobile/Solo	Requestor	EMEA
Chipset	Common	CRM#	BUG_2463
Location	[Autocall] – [Voice or VoLTE]		
Description of Enhancement/Fixes			

Fixed not to miss some POLQA parameters (Delay, Delta Delay, LQO/sec, LQO/frame) for logging.

XCAL-Harmony Version: 2.01.187

Date of Release: Apr 2017

Specifications

- Technology: CDMA/EVDO, WCDMA, LTE , GSM, TD-SCDMA
- Operating System Supported: Android OS up to Nougat v7.0
- Compatibility: XCAL-Harmony v2.01.xxx

Addition

Title	Add Export/Import Scan ID		
Product	XCAL-Harmony	Requestor	AE
Chipset	Common	CRM#	NEW_556
Location	[Scanner]		
Description of Enhancement/Fixes			

Added Scenario Import/Export button in SCAN Setting tab.

Import/Export button imports/exports Scan scenario file to FTP server.



Title	Inbuilding should have option to update Map info only on selected smartphone		
Product	XCAL-Harmony	Requestor	AE
Chipset	Common	CRM#	NEW_560
Location	[Inbuilding]		
Description of Enhancement/Fixes			

Added to update the building info and image map to the corresponding UE if BT is disconnected in the middle of Inbuilding test.

If selecting the number marked with Retry color in the icon box at the top left, the test information will be retransmitted.



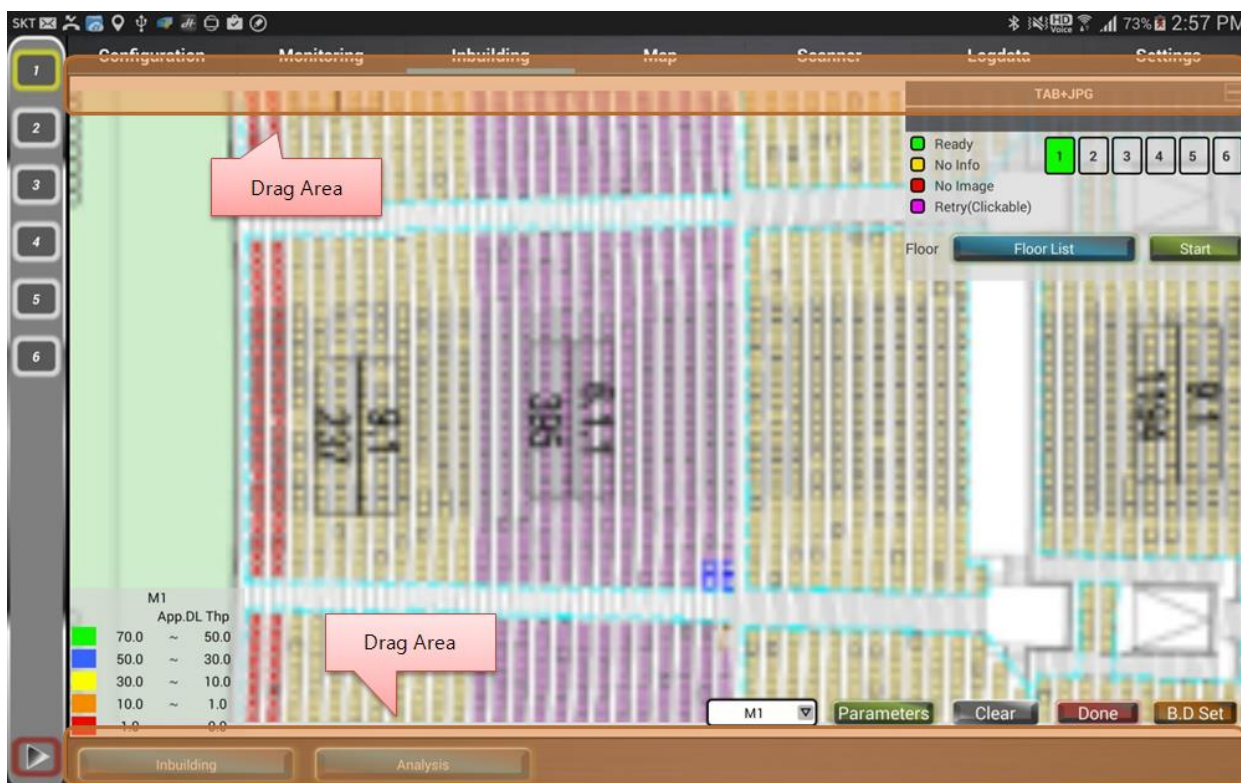
Title	Disable popup 'GPS information unknown' when measuring without GPS and Location on Android disabled
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Product	XCAL-Harmony	Requestor	AE
Chipset	Common	CRM#	NEW_561
Location	[Inbuilding]		
Description of Enhancement/Fixes			

Fixed not to appear 'GPS Information Unknown' pop up in UE while inbuilding test.

Title	Fix new Inbuilding view when zooming in it is too easy to slide through the menus		
Product	XCAL-Harmony	Requestor	AE
Chipset	Common	CRM#	NEW_562
Location	[Inbuilding]		
Description of Enhancement/Fixes			

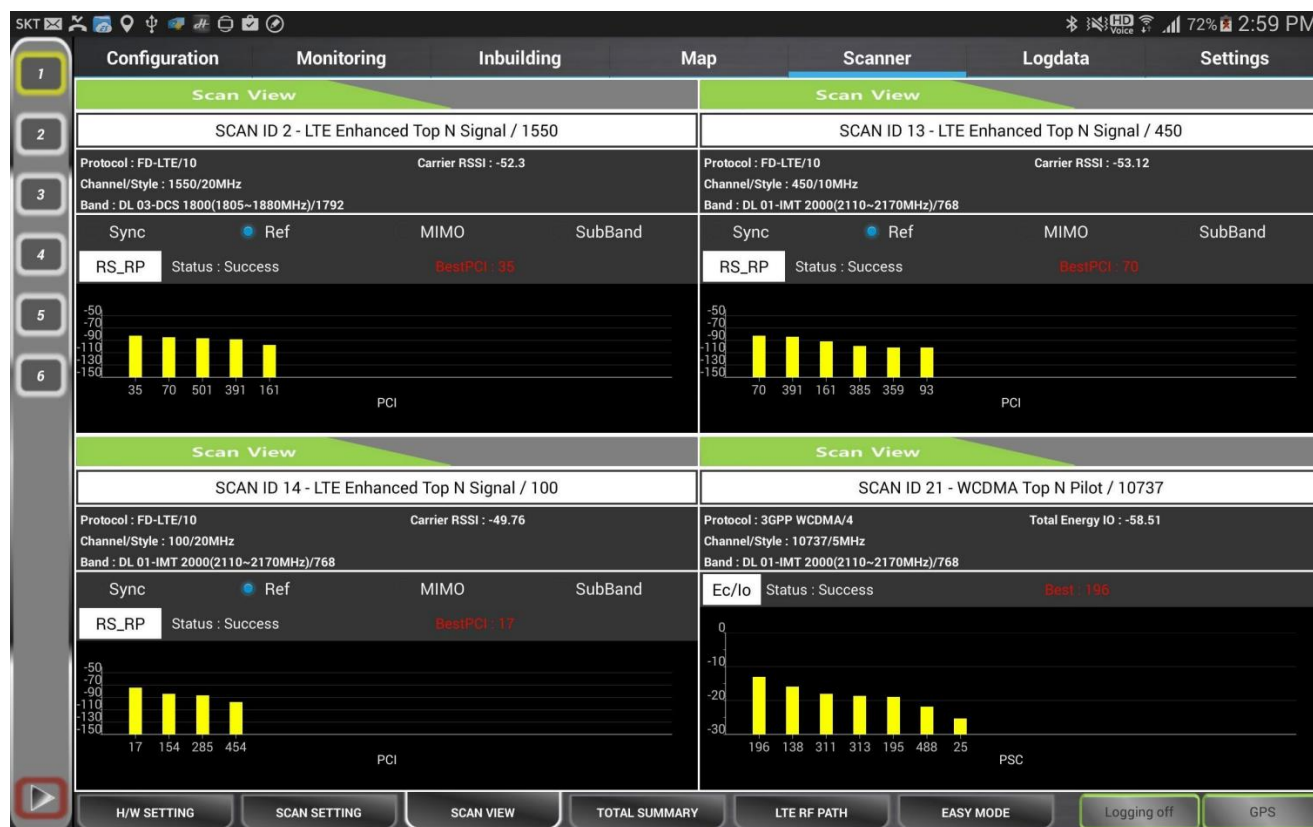
Changed to slide GUI within the Drag Area not to bother zoom in and image map.



Change

Title	Split Scan view screen into 4 windows		
Product	XCAL-Harmony	Requestor	AA
Chipset	Common	CRM#	MOD_573
Location	[PCTEL IBflex] - [Scanner]		
Description of Enhancement/Fixes			

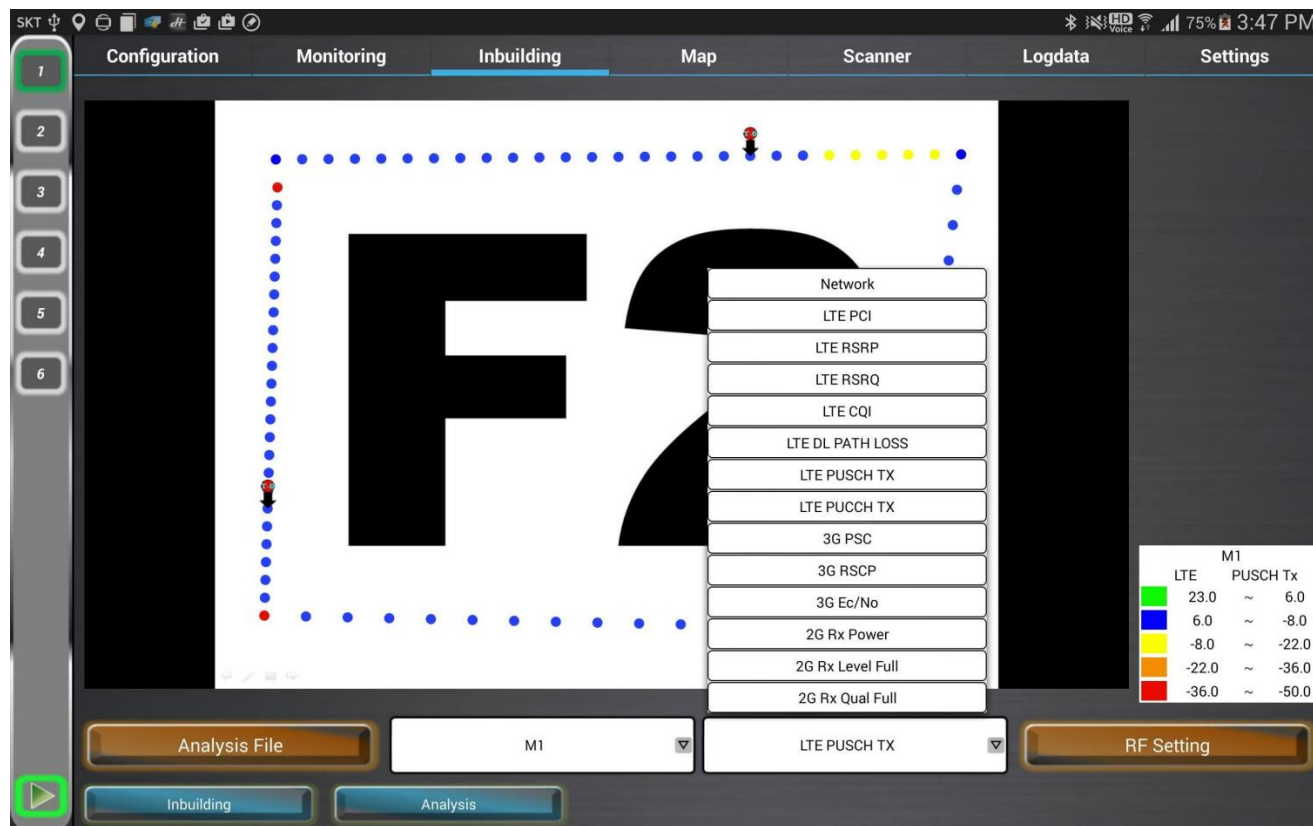
Changed to select SCAN VIEW - 2/4 window view in SCAN SETTING tab.



Title	Requesting to have additional Analysis KPIs in Inbuilding Test		
Product	XCAL-Harmony	Requestor	AA
Chipset	Common	CRM#	MOD_574
Location	[Inbuilding] - [Analysis]		

Description of Enhancement/Fixes

Added LTE Parameter CQI/DL PATH LOSS/PUSCH TX/PUCCH TX in Inbuilding Analysis.



Title	TAB+JPG - JPG size issue		
Product	XCAL-Harmony	Requestor	AA
Chipset	Common	CRM#	MOD_575
Location	[Inbuilding]		

Description of Enhancement/Fixes

Changed the inbuilding image in 4096~16384 pixel to be 1/4 resized. For the image in 4096pixel or under will be 1/2 resized.

Title	Warning Message for XCAL Format Uncheck		
Product	XCAL-Harmony	Requestor	EMEA
Chipset	Common	CRM#	BUG_2466

Location	[Settings]
Description of Enhancement/Fixes	

Added to appear warning screen if AutoCall or Manual logging is started while XCAL Format is unchecked.

“XCAL Format is unchecked. This can result in timestamp problems. Do you wish to continue measurement? To check XCAL Format, move to [Settings] – [Logdata] – [Logging Option] – [XCAL Format]”

Bug Fix

Title	Image Real location on Harmony		
Product	XCAL-Harmony	Requestor	AA
Chipset	Common	CRM#	BUG_2438
Location	[Inbuilding] – [Image Real location]		
Description of Enhancement/Fixes			

Fixed to properly save GPS info in DRM file for Image Real location - Inbuilding test.

Title	Increase zoom in for Inbuilding for detailed indoor map		
Product	XCAL-Harmony	Requestor	AE
Chipset	Common	CRM#	BUG_2439
Location	[Inbuilding]		
Description of Enhancement/Fixes			

Fixed the Zoom-In in the image map for inbuilding to be unlimited.

Title	Fix pointer size		
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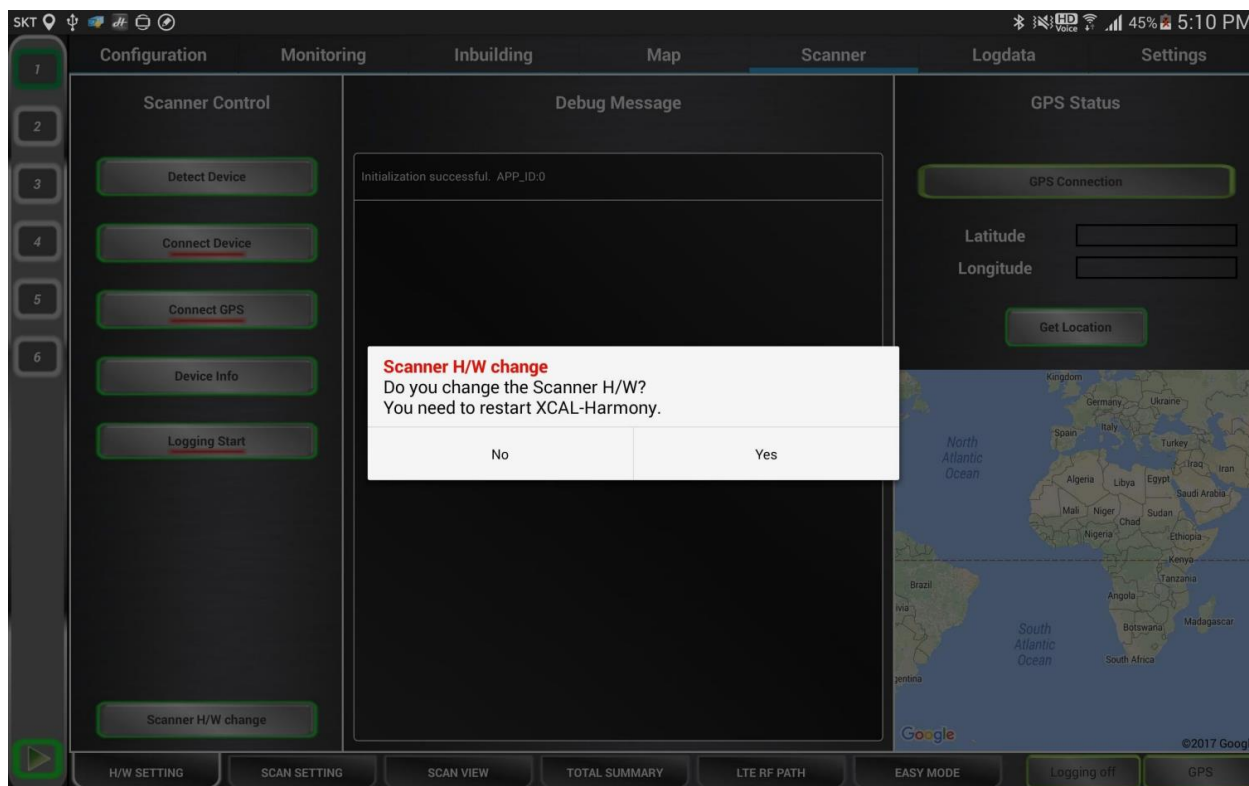
Product	XCAL-Harmony	Requestor	AE
Chipset	Common	CRM#	BUG_2440
Location	[Inbuilding]		
Description of Enhancement/Fixes			

Fixed the pointer size in image for inbuilding to be changeable in pixel unit.

Title	Scanner license pop-up ruins "one click and ready to go" feeling		
Product	XCAL-Harmony	Requestor	AE
Chipset	Common	CRM#	BUG_2442
Location	[Scanner]		
Description of Enhancement/Fixes			

Fixed to appear Scanner HW selection pop up screen at XCAL-Harmony launch only once.

(To change to another Scanner, select Scanner HW Change button in HW Setting tab.)



Title	Lots of GUI Problems on Lenovo Phab 2 Pro		
Product	XCAL-Harmony	Requestor	EMEA
Chipset	Common	CRM#	BUG_2450
Location			
Description of Enhancement/Fixes			

Fixed GUI I n accordance with the resolution of Lenovo Phab 2 Pro UE.

Title	Crash for Legend Set in Map View		
Product	XCAL-Harmony	Requestor	EMEA
Chipset	Common	CRM#	BUG_2452
Location	[Map] – [Legend Set]		
Description of Enhancement/Fixes			

Fixed not to crash if clicking Legend Set in Map view.

XCAL-Mobile/Solo Version: 4.13.610 and 4.15.21

Date of Release: April 2017

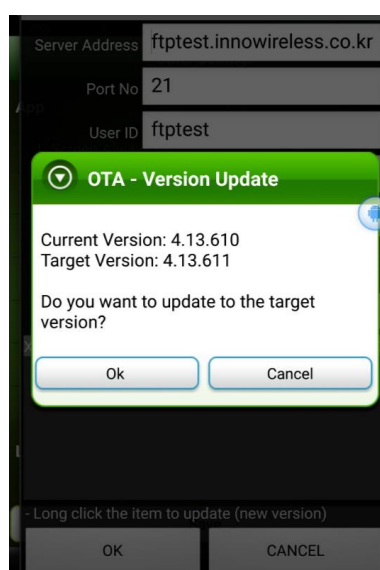
Specifications

- Technology: CDMA/EVDO, WCDMA, LTE , GSM, TD-SCDMA
- Operating System Supported: Android OS up to Nougat v7.0
- Compatibility: XCAL-Mobile/Solo v4.13.610 and v4.15.21

Addition

Title	Addition of Version Manager		
Product	XCAL-Mobile/Solo	Requestor	AA
Chipset	Common	CRM#	
Location	[Other Settings]- [1. App]		
Description of Enhancement/Fixes			

Added Version Manager in Other Settings to alert XCAL version update and Download via FTP Server.



XCAL-Mobile/Solo Version: 4.13.605

Date of Release: Mar 2017

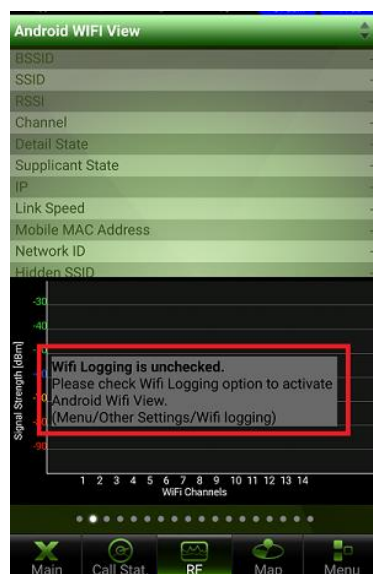
Specifications

- Technology: CDMA/EVDO, WCDMA, LTE , GSM, TD-SCDMA
- Operating System Supported: Android OS up to Nougat v7.0
- Compatibility: XCAL-Mobile/Solo v4.13.605

Addition

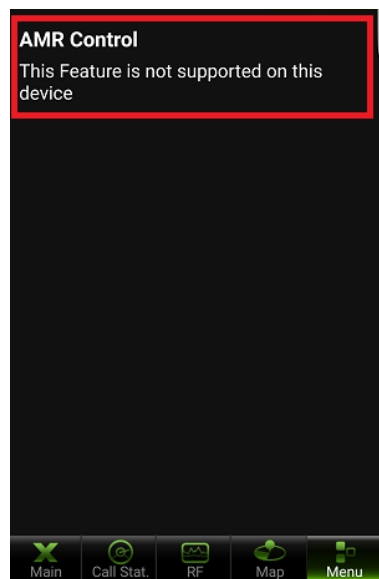
Title	Addition of Alarm Message on Wifi RF Screen		
Product	XCAL-Mobile/Solo	Requestor	EMEA
Chipset	Common	CRM#	BUG_2404
Location	[RF]-[Wifi View]		
Description of Enhancement/Fixes			

Added an alarm message on Wifi RF Screen when [WiFi Logging] option in Setting menu is not checked.



Title	ARM Control on LG G5-H850 Device		
Product	XCAL-Mobile/Solo	Requestor	EMEA
Chipset	Samsung Chipset	CRM#	BUG_2389
Location	[Other Settings]-[Phone Set Mode]-[AMR Control]		
Description of Enhancement/Fixes			

Added an alarm message on a Setting screen when AMR Control is not supported on a device.



Title	Addition of Network Lock(hidden) feature on G5/XP		
Product	XCAL-Mobile/Solo	Requestor	EMEA
Chipset	Common	CRM#	
Location	[Other Settings]-[Network Lock]		
Description of Enhancement/Fixes			

Added Network Lock(hidden) feature on LG G5(H850) and Sony Xperia X Performance(F8131) device.

Bug Fix

Title	Ring Buffer Full Issue		
Product	XCAL-Mobile	Requestor	EMEA
Chipset	Common	CRM#	BUG_2390
Location	[RF]		
Description of Enhancement/Fixes			

Fixed Ring Buffer Full issue.

Title	DM Router Error After Couple Hours of Idle State & Restart Message		
Product	XCAL-Mobile	Requestor	EMEA
Chipset	Common	CRM#	BUG_2391
Location			
Description of Enhancement/Fixes			

Fixed the bug that DM Router error occurs.

Title	Youtube Player – Play Start Problem		
Product	XCAL-Mobile	Requestor	EMEA
Chipset	Samsung Chipset	CRM#	BUG_2397
Location	[RF] –[4G Summary]		
Description of Enhancement/Fixes			

Fixed to start without delay when Youtube call starting.

Title	Crash in No Coverage on Developer Version		
Product	XCAL-Mobile	Requestor	EMEA

Chipset	Common	CRM#	BUG_2400
Location			
Description of Enhancement/Fixes			

Fixed not to close the application when there is no network coverage on a device.

Title	GSM Parameter is Unreliable		
Product	XCAL-Mobile/Solo	Requestor	EMEA
Chipset	Samsung Chipset	CRM#	BUG_2402
Location	[RF]-[GSM Summary/GSM Cell Measurement], [RF info on top]		
Description of Enhancement/Fixes			

Fixed to display proper GSM parameters' values on a Samsung Chipset device.

Title	Cannot Filter Single Message But Group of Messages		
Product	XCAL-Mobile	Requestor	EMEA
Chipset	Common	CRM#	BUG_2405
Location	[RF]-[Signaling Messages]		
Description of Enhancement/Fixes			

Fixed to properly filter a single message among group of messages.

Title	Upload Progress Bar Error		
Product	XCAL-Mobile/solo	Requestor	EMEA
Chipset	Common	CRM#	BUG_2406
Location	[Menu]-[Set]-[DRM Auto Upload]		
Description of Enhancement/Fixes			

Fixed to match 'XCAL Progress Status : LOG UPLOAD' on a device and Upload Progress Bar

when DRM Auto Upload turns on.

Title	Email Notification Error		
Product	XCAL-Mobile	Requestor	EMEA
Chipset	Samsung-chip	CRM#	BUG_2407
Location	[Log Upload]-[Set]-[E-mail Notification]		
Description of Enhancement/Fixes			

Fixed to properly send an email notification.

Title	Problem with Airplane Mode Stuck		
Product	XCAL-Mobile	Requestor	EMEA
Chipset	Common	CRM#	BUG_2410
Location			
Description of Enhancement/Fixes			

Fixed not to stuck in Airplane mode in FTP, HTTP, Ping calls.

Title	RF/GSM Cell Measurement Black Bars		
Product	XCAL-Mobile/Solo	Requestor	EMEA
Chipset	Common	CRM#	BUG_2412
Location	[RF]-[Cell Measurement]		
Description of Enhancement/Fixes			

Fixed not to display Serving Cell Color in black.

Title	RF/GSM Cell Graph Not Scrolling Down Error		
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Product	XCAL-Mobile/Solo	Requestor	EMEA
Chipset	Common	CRM#	BUG_2412
Location	[RF]-[Cell Measurement]		

Description of Enhancement/Fixes

Fixed to scroll up and down and check all the listed information in GSM Cell Measurement.

Title	Connecting Internal GPS Error		
Product	XCAL-Mobile/Solo	Requestor	EMEA
Chipset	Common	CRM#	BUG_2413
Location	[Other Settings]		

Description of Enhancement/Fixes

Fixed to connect Internal GPS automatically when External GPS turned off.

Title	Randomly Android displays Airplane mode ON		
Product	XCAL-Mobile	Requestor	EMEA
Chipset	Common	CRM#	BUG_2414
Location			

Description of Enhancement/Fixes

Fixed not to randomly change Airplane mode on LG G5(H850) device.

Title	Delete Button in Scenario Edit Tab Error		
Product	XCAL-Mobile/Solo	Requestor	EMEA
Chipset	Common	CRM#	BUG_2415
Location	[Main]-[Add/Edit]		

Description of Enhancement/Fixes

Fixed to properly active Delete Button in scenario edit tab.

Title	Long Data Protocol Preparing with Airplane Mode On		
Product	XCAL-Mobile	Requestor	EMEA
Chipset	Common	CRM#	BUG_2417
Location			
Description of Enhancement/Fixes			

Fixed not to stuck/delay in Airplane mode when Data Protocol processing.

Title	Ping plus Airplane Mode in Inbuilding Mode Does Not Work Properly		
Product	XCAL-Mobile	Requestor	EMEA
Chipset	Samsung-chip	CRM#	BUG_2418
Location			
Description of Enhancement/Fixes			

Fixed to properly do Ping Inbuilding test with Airplane mode option.

XCAL-Mobile/Solo Version: 4.15.014

Date of Release: Feb 2017

Specifications

- Technology: CDMA/EVDO, WCDMA, LTE , GSM, TD-SCDMA
- Operating System Supported: Android OS up to Nougat v7.0
- Compatibility: XCAL-Mobile/Solo v4.15.014

Addition

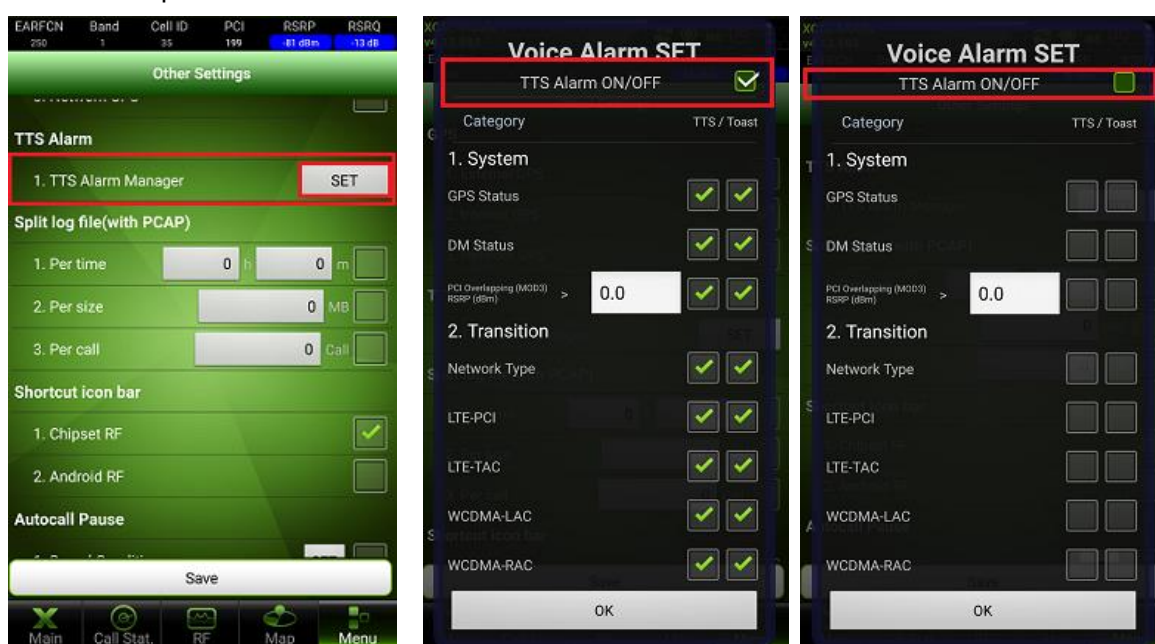
Title	Addition of a Warning Message when Saving after selecting WiFi Logging Option		
Product	XCAL-Mobile/Solo	Requestor	
Chipset	Common	CRM#	
Location	[Menu]-[Other Settings]-[Wifi logging]-[Save]		
Description of Enhancement/Fixes			

Added to pop up an warning message when saving after selecting the checkbox of [WiFi Logging] option. WiFi Logging may effect on throughput.



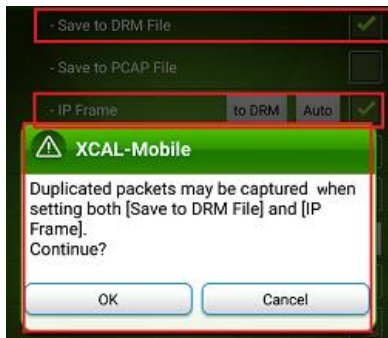
Title	Addition of All Selection/Unselection option for TTS Alarm		
Product	XCAL-Mobile/Solo	Requestor	
Chipset	Common	CRM#	
Location	[Menu]-[Other Settings]-[TTS Alarm Manager]-[SET]		
Description of Enhancement/Fixes			

Added an option to select or unselect all TTS alarm items in the list.



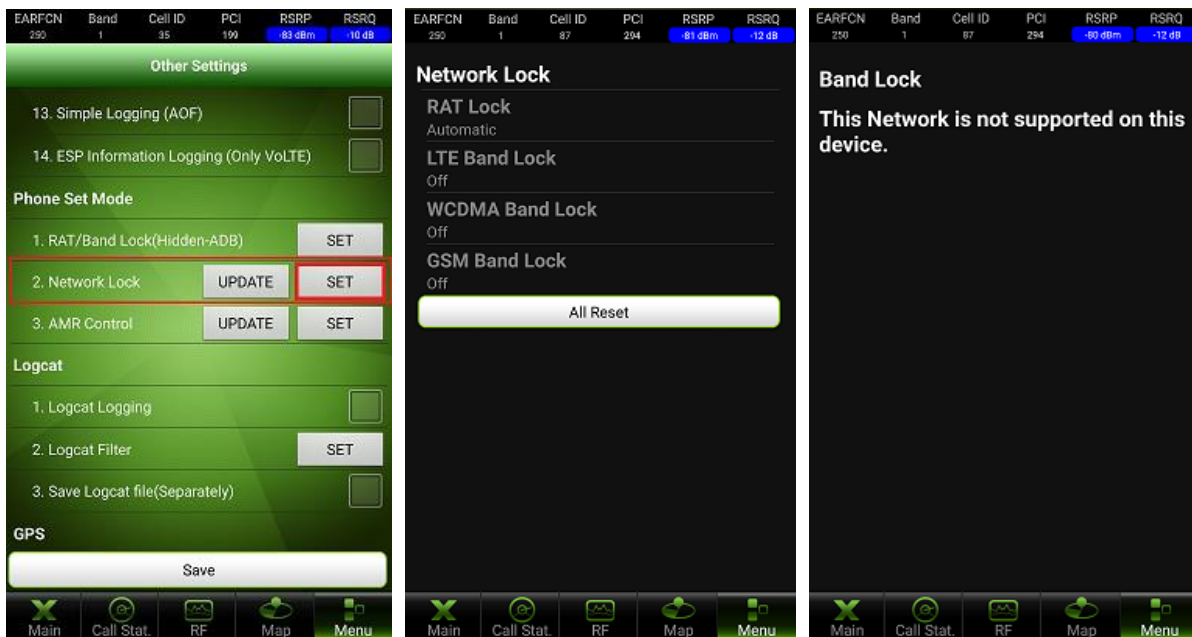
Title	Addition of Warning Message when both Save to DRM File and IP Frame are selected at the same time		
Product	XCAL-Mobile/Solo	Requestor	
Chipset	Common	CRM#	
Location	[Menu]-[Other Settings]-[Save to DRM]&[IP Frame]		
Description of Enhancement/Fixes			

Added to pop up an warning message when both [Save to DRM] and [IP Frame] are selected at the same time. [Cancel] button unselects the lately selected option.



Title	Addition of Alarm Message for Unsupportable Hidden Lock		
Product	XCAL-Mobile/Solo	Requestor	
Chipset	Common	CRM#	
Location	[Menu]-[Other Settings]-[Network Lock]-[Set]		
Description of Enhancement/Fixes			

Added to pop up an alarm message when the network selected in [Network Lock] option is unsupportable for the test mobile.

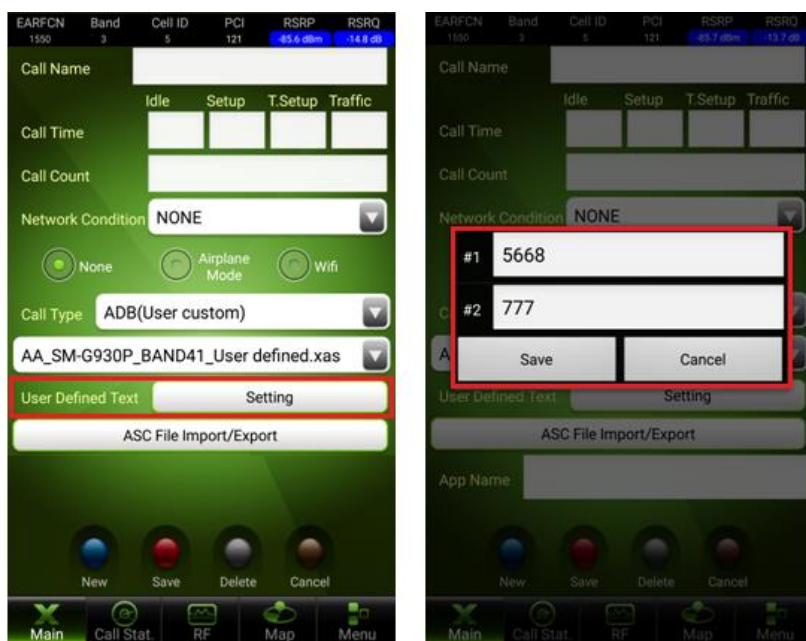


Title	Addition of more functions for ADB Script Call test		
Product	XCAL-Mobile/XCAL-Solo	Requestor	AA

Chipset	Common	CRM#
Location	[Autocall]	
Description of Enhancement/Fixes		

Added to support *.xas file (the encrypted file of scenario file in *.asc format) for all ADB Script AutoCall test.

Added [User Defined Text] function to edit particular text of User Custom Call for ADB Script call.



Title	Addition of more functions for Messenger Talk test		
Product	XCAL-Mobile/XCAL-Solo	Requestor	EMEA
Chipset	Common	CRM#	
Location	[Autocall]		
Description of Enhancement/Fixes			

Added a call test type of Messenger Talk to measure quality of voice call through the applications of Skype, Facebook Messenger, WhatsApp.

(Activated and supported depending on License type. Smart phone model which does not support Shell cmd may not work.)



Title	Addition of AMR Control		
Product	XCAL-Mobile	Requestor	EMEA
Chipset	Common	CRM#	
Location	[Menu] – [Other Settings]		
Description of Enhancement/Fixes			

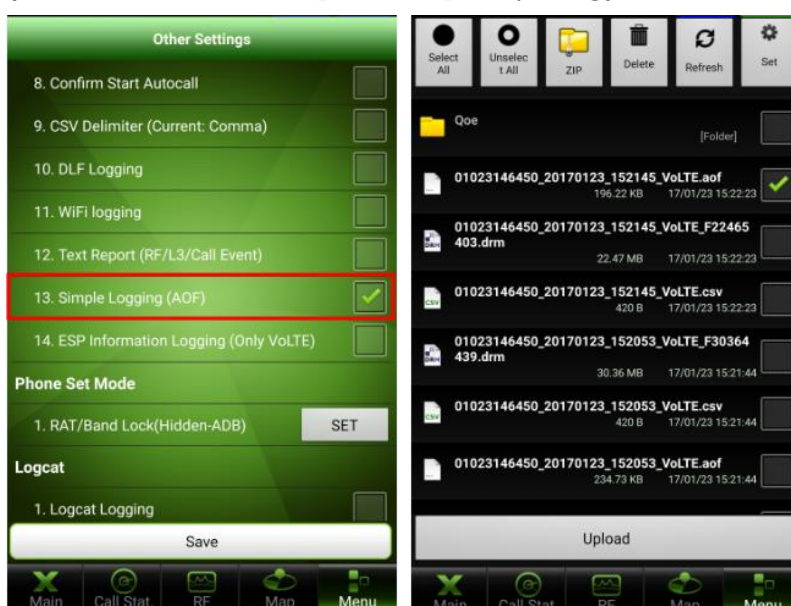
Added [AMR Control] function to configure per audio speech codec. [Update] button downloads xml file for mobile, fixes to set a desired tech, and reboot the test mobile to apply the configured AMR speech codec. (Supportable mobile model: SM-G928F)



Title	Addition of Accuver Simple logdata		
Product	XCAL-Mobile	Requestor	
Chipset	Qualcomm, Samsung	CRM#	
Location	[Menu]-[Other Settings]-[Logging]-[Simple Logging(AOF)]		
Description of Enhancement/Fixes			

Added open text based simple logging function.

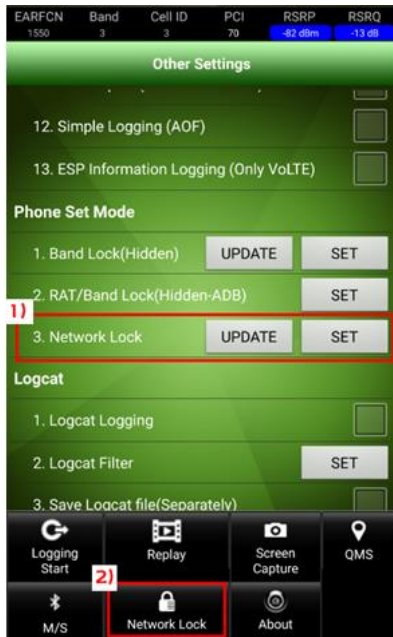
(XCAL-Mobile license : [Function] Simple log)



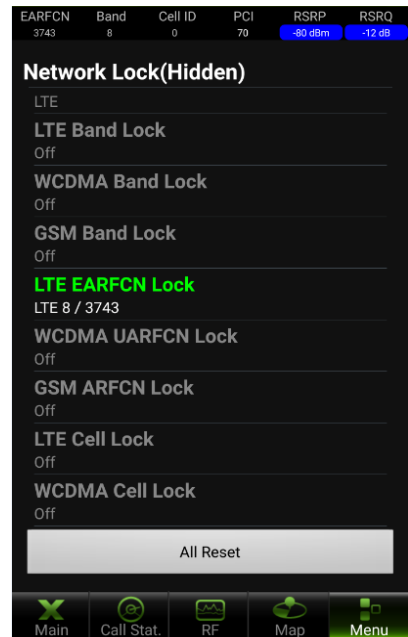
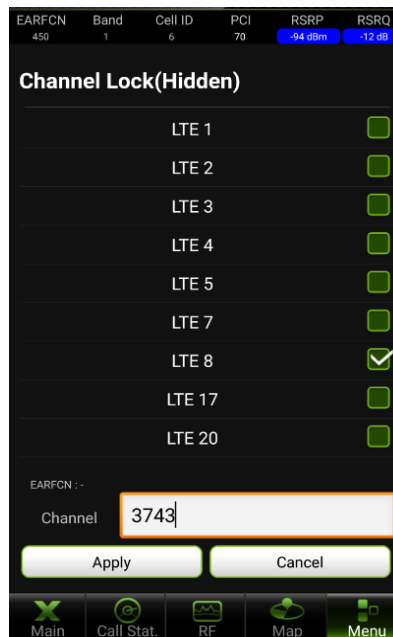
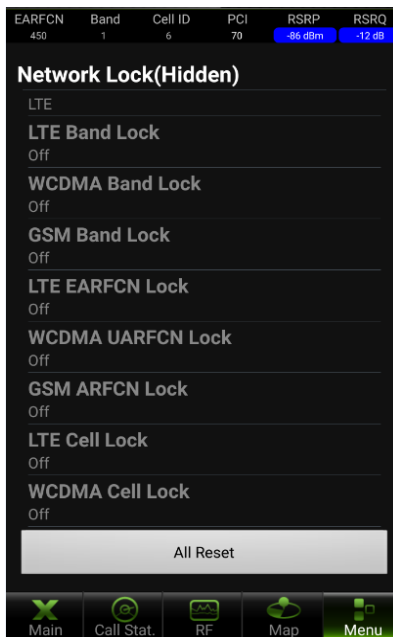
Title	Channel/Cell Lock		
Product	XCAL-Mobile/XCAL-Solo	Requestor	
Chipset	Common	CRM#	
Location	[XM Menu]-[Network Lock] [Menu]-[Other Settings]-[Phone Set Mode]-[Network Lock]		
Description of Enhancement/Fixes			

Added to support Channel/Cell Locking without mobile reboot process.

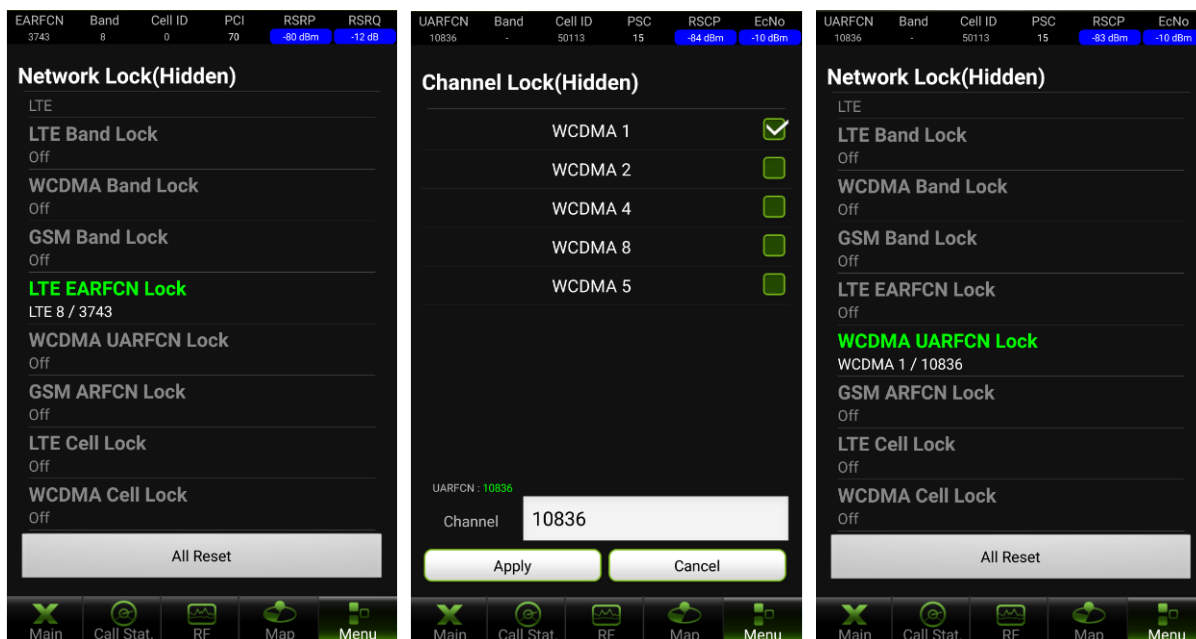
(Supportable mobile models are specified in the Device List provided separately.)



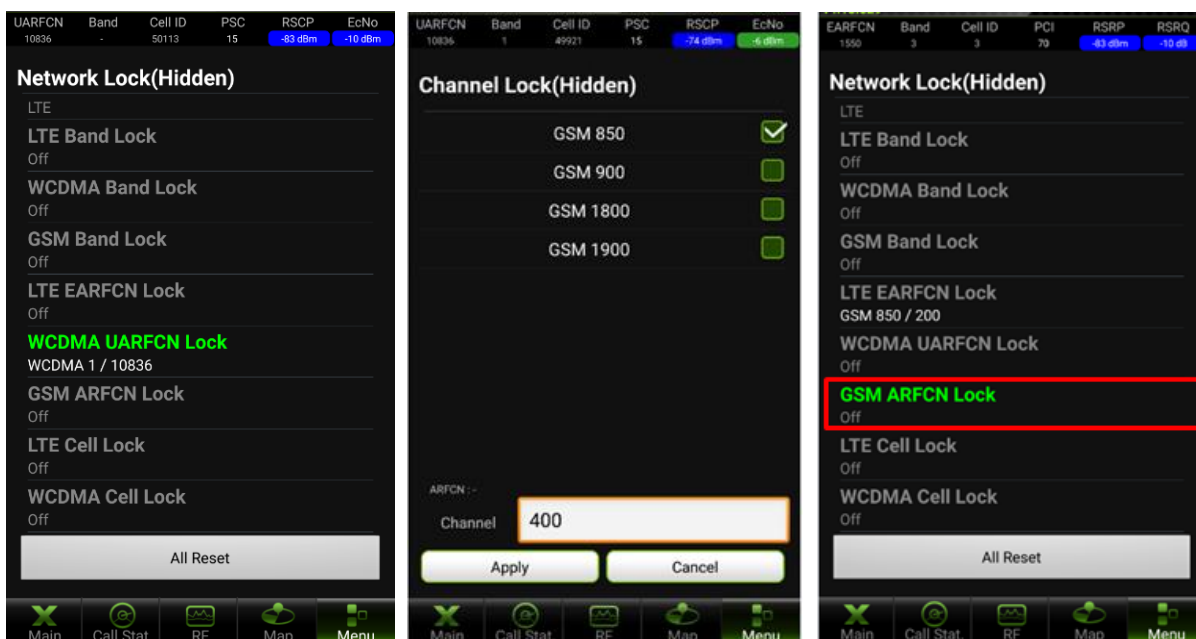
■ LTE EARFCN & PCI Lock



■ WCDMA UARFCN & PSC Lock

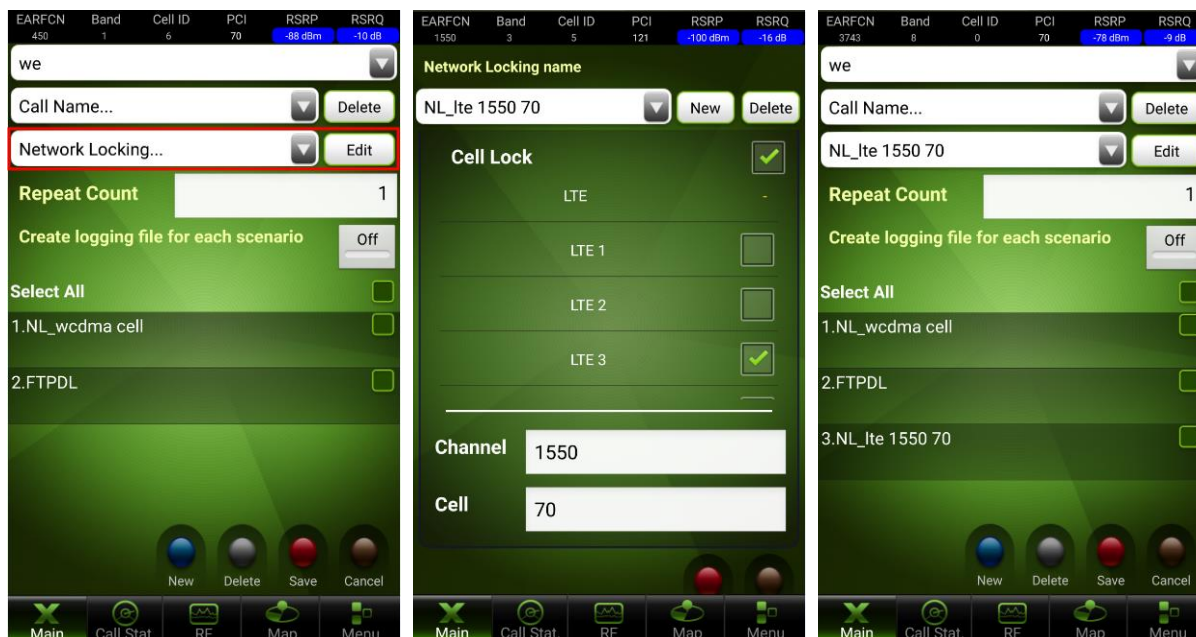


GSM ARFCN Locking



Title	Addition of Channel/Cell Locking Scenario for Multi-Call		
Product	XCAL-Mobile/XCAL-Solo	Requestor	
Chipset	Common	CRM#	
Location	[Menu]-[Autocall Settings]-[Multi-Call]-[Network Locking]		
Description of Enhancement/Fixes			

Added the call scenario of [Channel/Cell Locking] under Multi Call test.



Title	Addition of Numbering Rule in MOS Info		
Product	XCAL-Mobile/Solo	Requestor	EMEA
Chipset	Common	CRM#	NEW_521, BUG_2293
Location	[Autocall]-[voice/VoLTE]-[MOS]		
Description of Enhancement/Fixes			

Added to give MOS numbers per Recording and Play in MOS Information.

Discrepant MOS numbering is fixed.

Traffic	Start	
Recording Info		MOS Start 1
MOS Status		r1-1
Recording Info	record start	New_Korean_WB_6s.v
Recording Start		r1-1
MOS Status		r1-1
Recording Info	record end	r1-1
Recording End		r1-1
MOS Status		p1-1
Recording Info	play start	New_Korean_WB_6s.v
Play Start		
MOS		01096451672_201702
MOS Status		p1-1
Recording Info	play end	Play End
MOS Status		r1-2
Recording Info	record start	New_Korean_WB_6s.v
Recording Start		r1-2
MOS Status		r1-2
Recording Info	record end	r1-2
Recording End		r1-2
MOS Status		p1-2
Recording Info	play start	New_Korean_WB_6s.v
Play Start		
MOS		01096451672_201702
MOS Status		r1-2
Recording Info	play end	Play End
MOS Status		r1-3
Recording Info	record start	New_Korean_WB_6s.v
Recording Start		r1-3
MOS Status		r1-3

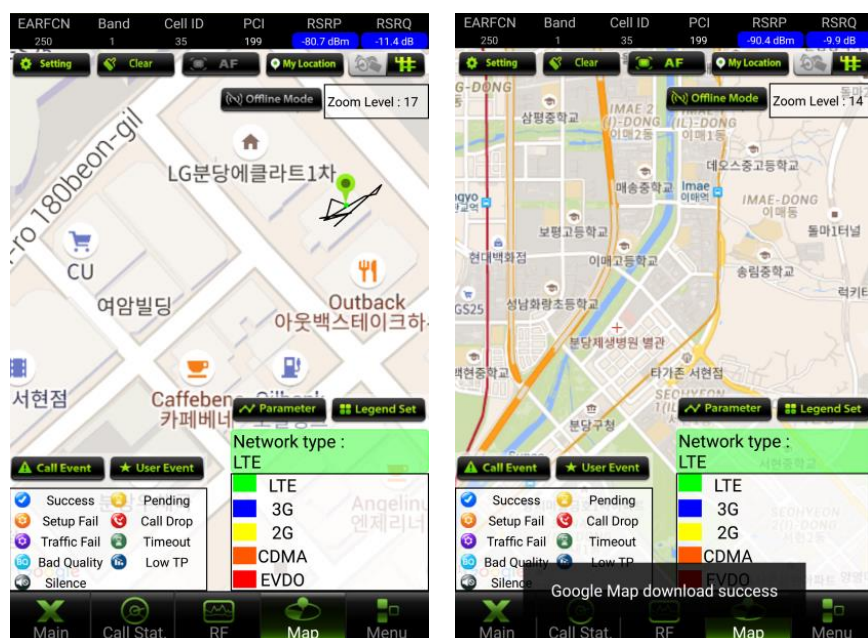
Title	More Monitoring Items in 3G Cell Measurement		
Product	XCAL-Mobile/Solo	Requestor	EMEA
Chipset	Samsung	CRM#	BUG_2366
Location	[Autocall]-[voice/VoLTE]-[MOS]		
Description of Enhancement/Fixes			

Added to display more monitoring items of [Active Cell] and [Identified Cell] in [3G Cell Measurement] screen.



Title	Addition of Offline Map		
Product	XCAL-Mobile	Requestor	AA-EMEA
Chipset	Common	CRM#	
Location	[MAP] – [Offline MAP]		
Description of Enhancement/Fixes			

Added the [Offline Mode] button in the top right corner of map screen to download Google Map and display map even in the Idle state. When map is used in Offline Mode, data consuming is very little. When [Offline Mode] button is tapped, [Google Map Download Success] message appears and starts to download Google map file.



Title	ESP Information Logging (Only VoLTE)		
Product	XCAL-Mobile/XCAL-Solo	Requestor	
Chipset	Common	CRM#	
Location			
Description of Enhancement/Fixes			

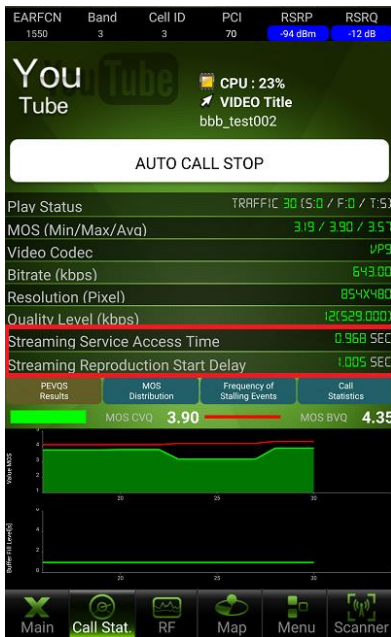
Added [ESP Information Logging(Only VoLTE)] option to collect log of Authentication Key(IK), Encryption Key(CK), and algorithm information to decode ESP packet of the test mobile applying IPsec while conducting VoLTE call test.

When this option is selected and start VoLTE AutoCall test, ESP Information logging section (25sec) is proceeded.



Title	Addition of YouTube KPI for PEVQ-S Call		
Product	XCAL-Mobile/Solo	Requestor	AA
Chipset	Common	CRM#	
Location	[Main]-[Youtube]-[pevq-s]		
Description of Enhancement/Fixes			

Added YouTube KPI(Streaming Service Access Time/ Streaming Reproduction Start Delay) in addition to the existing PEVQ-S KPI.



Change

Title	Change on RF Information Display in the Status Bar at the top		
Product	XCAL-Mobile	Requestor	AE
Chipset	Samsung-chip	CRM#	BUG 2305
Location	[Status bar]		
Description of Enhancement/Fixes			

Changed to display the status bar at the top as like the A set of Cell Measurement.

Bug Fix

Title	App Close when entering to 3G RF		
Product	XCAL-Mobile	Requestor	EMEA

Chipset	Samsung Chipset	CRM#	BUG_2279
Location	[RF] – [3G Summary]		
Description of Enhancement/Fixes			

Fixed not to close the application when browsing to 3G Summary page in particular mobile model(Galaxy S6 Edge+).

Title	App Close when entering to RF		
Product	XCAL-Mobile	Requestor	EMEA
Chipset	Samsung Chipset	CRM#	BUG_2332
Location	[RF]		
Description of Enhancement/Fixes			

Fixed not to close the application when browsing to RF page in particular mobile model(GT-I9505).

Title	Activation of Auto View Icon		
Product	XCAL-Mobile	Requestor	EMEA
Chipset	Common	CRM#	BUG_2286
Location	[RF] –[Edit]		
Description of Enhancement/Fixes			

Fixed to properly activate corresponding network icon when RF Auto View is selected.

Title	RRC State Display Error		
Product	XCAL-Mobile	Requestor	EMEA
Chipset	Samsung Chipset	CRM#	
Location	[RF] –[4G Summary]		
Description of Enhancement/Fixes			

Fixed to properly update and display RRC State in real time.

Title	Display Error on ICD and Relevant Parameters		
Product	XCAL-Mobile	Requestor	EMEA
Chipset	Samsung Chipset	CRM#	
Location	[RF]-[4G Summary]/[3G Summary]		
Description of Enhancement/Fixes			

Fixed not to miss ICD version and relevant parameters.

Title	GSM Parameter Display Error		
Product	XCAL-Mobile	Requestor	EMEA
Chipset	Samsung Chipset	CRM#	
Location	[RF]-[GSM Summary]/[3G Cell]		
Description of Enhancement/Fixes			

Fixed not to display fixed Rx level and miss data in Cell Measurement.

Title	BTS Serving Line Display Error		
Product	XCAL-Mobile	Requestor	AE
Chipset	Samsung-chip	CRM#	BUG 2306
Location	[Map]		
Description of Enhancement/Fixes			

Fixed to properly display BTS line in map.

ETC

Title	E-mail UI		
Product	XCAL-Mobile	Requestor	EMEA
Chipset	Common	CRM#	MOD_565
Location	[Main]-[Email]		
Description of Enhancement/Fixes			

Amended to show the UI of [Email ID] instead of [Gmail ID] in [Email Scenario Info] screen.

XCAL-Mobile/Solo Version: 4.13.512

Date of Release: Sep 2016

Specifications

- Technology: CDMA/EVDO, WCDMA, LTE , GSM, TD-SCDMA
- Operating System Supported: Android OS up to Marshmallow v6.0.1
- Compatibility: XCAL-Mobile/Solo v4.13.512

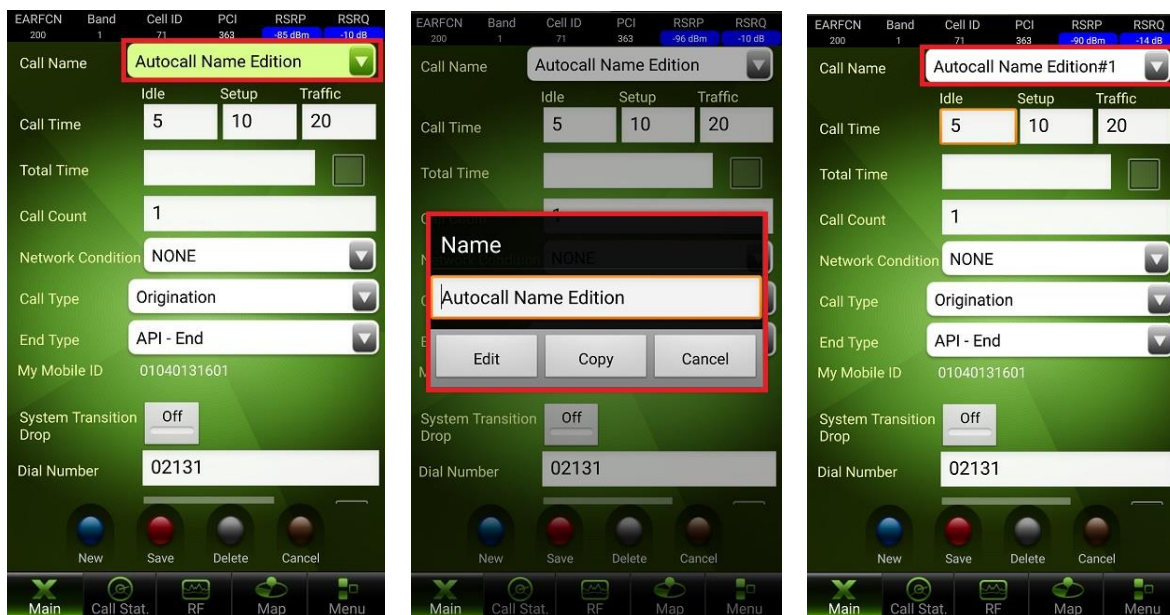
Addition

Title	Edition of Call Name
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Product	XCAL-Mobile/XCAL-Solo	Requestor	EMEA
Chipset	Common	CRM#	MOD_522
Location	[Autocall]		

Description of Enhancement/Fixes

Added to edit and copy of AutoCall setting by tapping Call Name for more than 3 seconds. For copy, the call name is saved with the edited name or original name#n.



Title	Select All option for RF Setting		
Product	XCAL-Harmony	Requestor	AJ
Chipset	Common	CRM#	MOD_515
Location	[RF Summary] – [Parameter]		

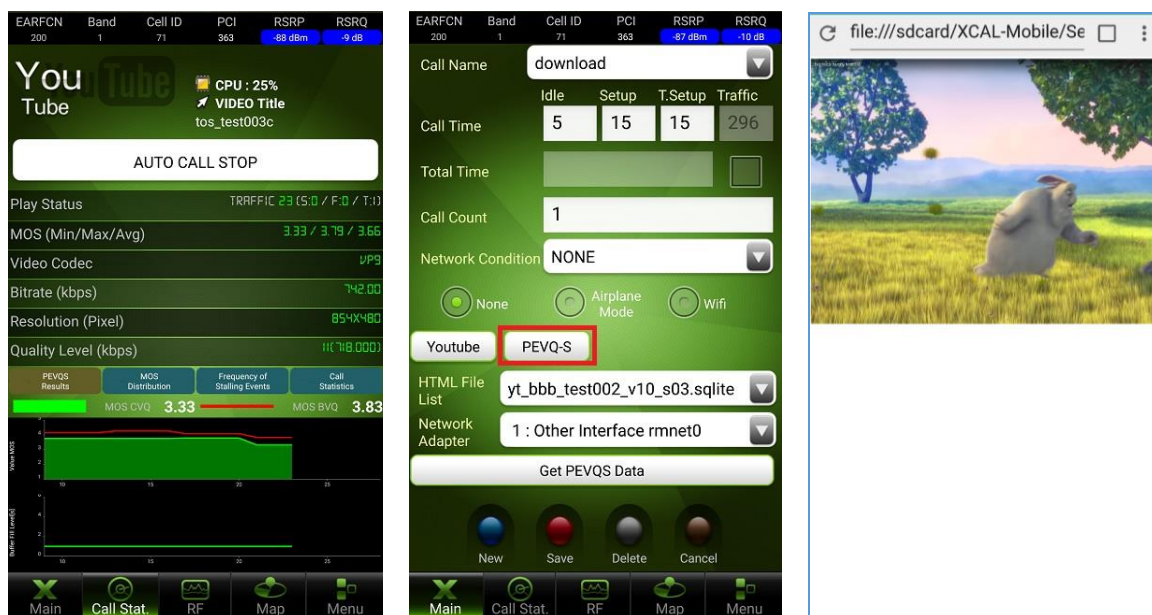
Description of Enhancement/Fixes

Added [All] to select or delete all parameters in RF summary setting. [All] button selects or unselects all parameters.



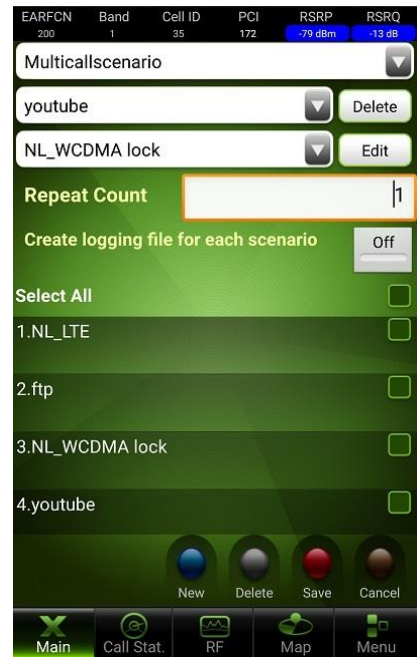
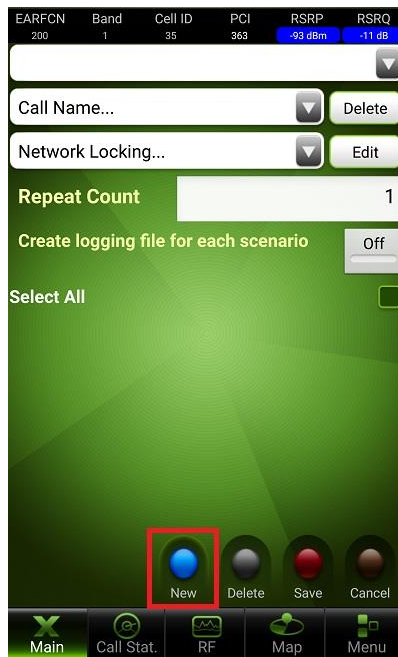
Title	PEVQ-S		
Product	XCAL-Mobile/XCAL-Solo	Requestor	EMEA
Chipset	Common	CRM#	
Location	[Main]-[Youtube]-[Add/Edit]-[PEVQ-S]		
Description of Enhancement/Fixes			

Added [PEVQ-S] for YouTube AutoCall to conduct Video MOS score. It works only with rooting smart phones. For details, refer to User Guide and Introduction material for PEVQ-S separately provided.



Title	Network Lock		
Product	XCAL-Mobile/XCAL-Solo	Requestor	EMEA
Chipset	Common	CRM#	MOD_522
Location	[Main]-[Multicall] [Menu]-[Other Settings]-[Phone Set Mode]-[Band Lock(Hidden)]		
Description of Enhancement/Fixes			

Added Network Lock(NL) feature by using Android hidden menu. Particular call scenario can be measured in selected network condition by allocating scenario after configuring Network Lock for MultiCall setting.

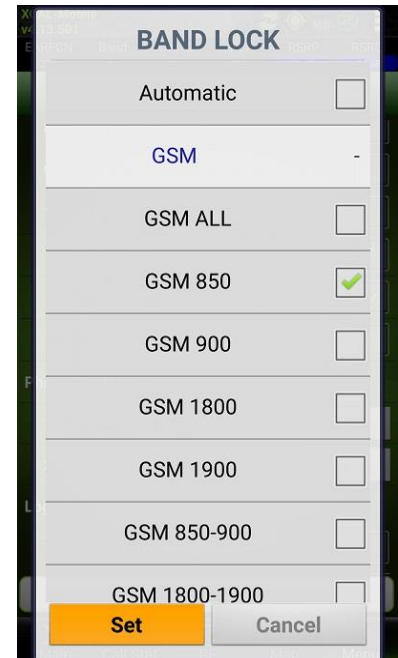
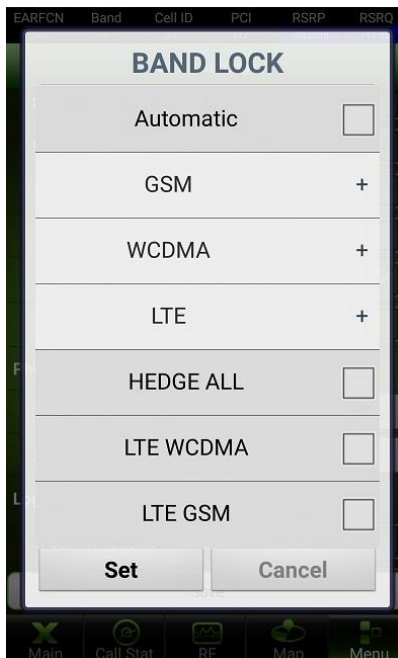
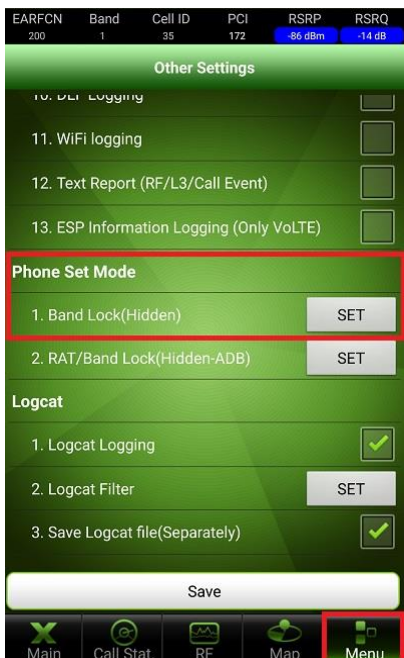


The other way for configuring Network Lock is through [Menu] – [Other Settings].

Conduct call test after configuring Network Lock by using [Other Setting] – [Phone Set Mode] – [1. Band Loc(Hidden)] menu].

NL feature works only with corresponding license along with special smart phones which available for NL.

*** No need of mobile reboot after configuring NL setting.**



Title	ADB User Custom Call
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Product	XCAL-Mobile/XCAL-Solo	Requestor	
Chipset	Common	CRM#	
Location	[Main]-[ADB Script]		
Description of Enhancement/Fixes			

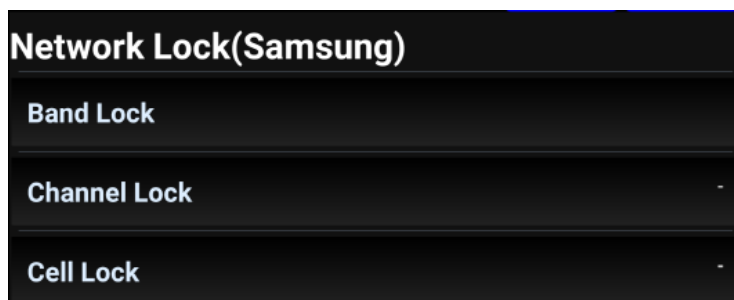
Added a AutoCall type of ADB (User Custom) by using touch event. Call scenario (*.asc) for ADB user custom is created to test various network locking and automation. (The call scenario is created by using a special tool of Scenario Editor. For details of scenario, refer to ADB User Custom Guide provided separately.)



Title	Samsung Chip – Network Lock		
Product	XCAL-Mobile	Requestor	
Chipset	Samsung Chipset ICD 5.13 or above	CRM#	
Location	[Menu] – [Other settings]		
Description of Enhancement/Fixes			

Added to support Band/Channel/Cell Lock features for the smart phones (Galaxy Note7) with the application of Samsung Chip ICD 5.13.

* No need of mobile reboot for the NL setting.

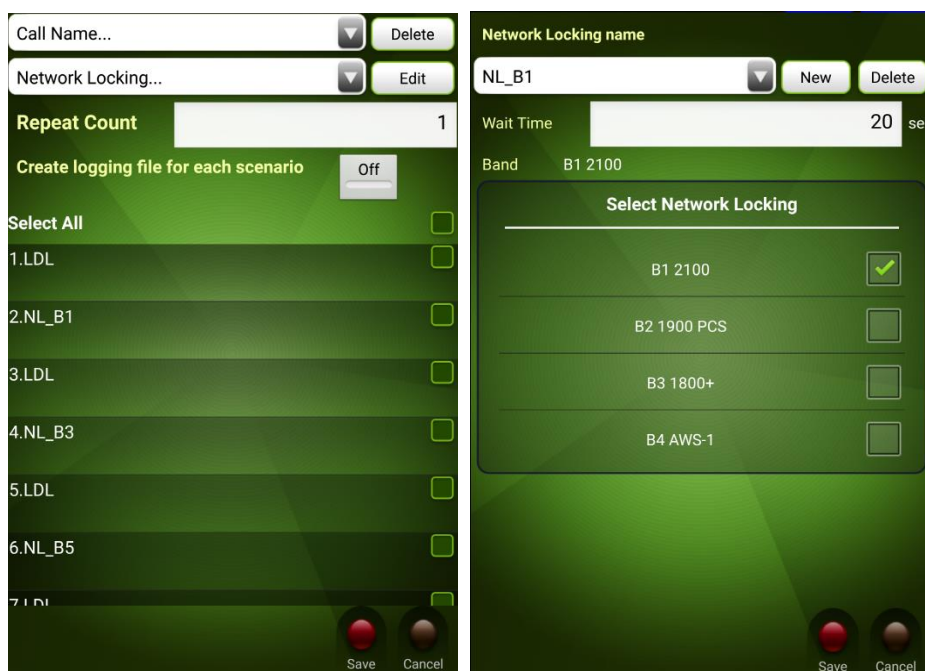


Title	Samsung Chip – Autocall Band Lock in Multi-call		
Product	XCAL-Mobile	Requestor	
Chipset	Samsung Chipset ICD 5.13 or above	CRM#	
Location	[Menu] – [Autocall Settings]		
Description of Enhancement/Fixes			

Added to support AutoCall Band Lock for the smart phones (Galaxy Note7) with the application of Samsung chip ICD 5.13.

Band Lock Alias is configured by selecting [Network Locking] – [Edit] in Multi-Call setting screen.

Multi-Call scenario is configured by combining AutoCall Scenario and Network Locking Alias configured.



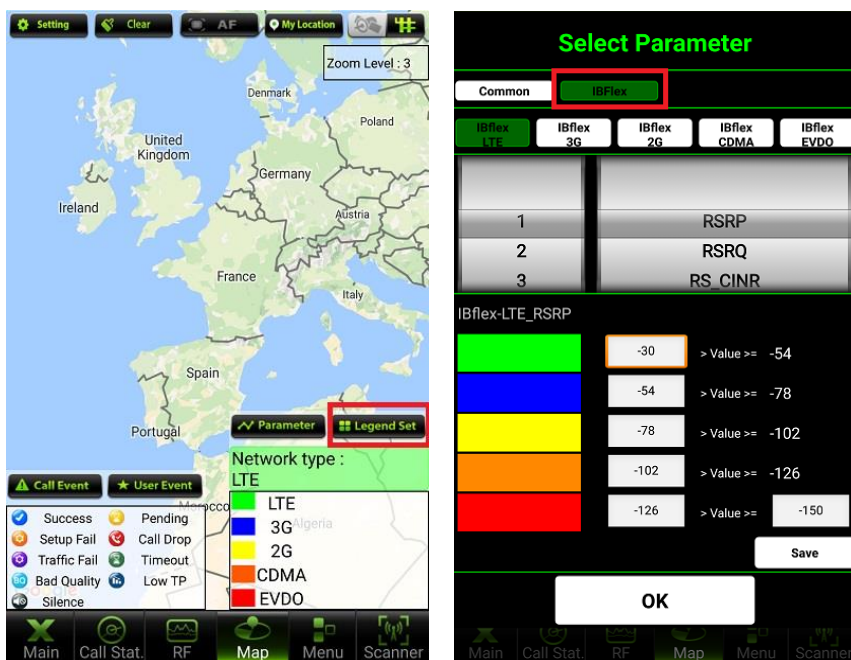
While processing Multi-Call test, [Network Locking] shows the status of Band Lock.



Title	PCTEL Scanner – MAP/Inbuilding Display of RF Parameter		
Product	XCAL-Mobile/XCAL-Harmony	Requestor	AA
Chipset	Common	CRM#	
Location	[Menu] – [Autocall Settings]		
Description of Enhancement/Fixes			

Added to display RF parameter of each tech in the legend of Map and Inbuilding.

- Supported RF Parameter
 - LTE - RSRP, RSRQ, RS_CINR, PCI
 - WCDMA - RSCP, Ec/Io, PSC
 - CDMA - Ec/Io, Ec, PN
 - EVDO - Ec/Io, Ec, PN
 - GSM – RSSI



Title	Silence Detection Option in Voice/VoLTE Call		
Product	XCAL-Mobile/XCAL-Solo/XCAL-Harmony	Requestor	AJ/AA
Chipset	Common	CRM#	
Location	[Menu] – [Autocall Settings]		
Description of Enhancement/Fixes			

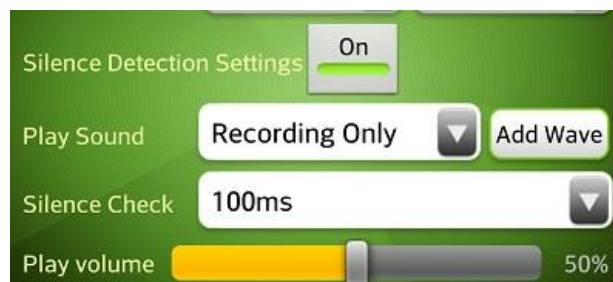
For Voice/VoLTE calls,

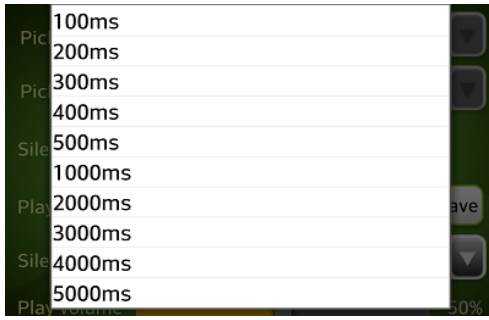
Added to save [Call Info] by detecting mute of current sound using Wave Recording feature.

Wave Play and Wave Recording features are supported.

Silence Detection is supported for the range of 100ms~5000ms.

Silence Detection License is required.





Change

Title	iBwave Survey Data Update		
Product	XCAL-Mobile/XCAL-Harmony	Requestor	AA
Chipset	Common	CRM#	
Location	[Map]		
Description of Enhancement/Fixes			

Added the collected RF information and survey data for iBwave synchronization.

- Updated RF Parameter
 - LTE – SNIR, MobileTxPower

Technical Support

If you have any further queries while using XCAL-Mobile, visit our support page www.accuver.com or contact Technical Support via sales@accuver.com.



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