

XCAL-

Mobile/Solo/Harmonizer

Release Note

Doc Rev: 68
2024-09-02

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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 6 types; **JIRA Resolved**, **Autocall**, **RF view**, **Function**, **Scanner** and **Known Issue**.

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

Revision History

Rev.	Product Version	Date of Release	Note
1	XCAL-Mobile/Solo : 5.00.030	2021-04-19	
2	XCAL-Mobile/Solo : 5.00.034	2021-07-12	
3	XCAL-Mobile/Solo : 5.00.035 XCAL-Harmonizer : 3.00.005	2021-08-19	
4	XCAL-Mobile/Solo : 5.00.041 XCAL-Harmonizer : 3.00.010	2021-11-15	
5	XCAL-Mobile/Solo : 5.00.048 XCAL-Harmonizer : 3.00.013	2022-01-28	
6	XCAL-Mobile/Solo : 5.00.052 XCAL-Harmonizer : 3.00.016	2022-02-23	
7	XCAL-Mobile/Solo : 5.00.057 XCAL-Harmonizer : 3.00.021	2022-04-04	
8	XCAL-Mobile/Solo : 5.00.065	2022-06-07	
9	XCAL-Mobile/Solo : 5.00.067	2022-06-13	
10	XCAL-Mobile/Solo : 5.00.071	2022-06-22	
11	XCAL-Mobile/Solo : 5.00.072	2022-06-27	
12	XCAL-Mobile/Solo : 5.00.076 XCAL-Harmonizer : 3.00.026	2022-07-05	
13	XCAL-Mobile/Solo : 5.00.081	2022-07-18	
14	XCAL-Mobile/Solo : 5.00.082	2022-07-25	
15	XCAL-Mobile/Solo : 5.00.084	2022-08-01	
16	XCAL-Mobile/Solo : 5.00.088	2022-08-09	
17	XCAL-Mobile/Solo : 5.00.089 XCAL-Harmonizer : 3.00.027	2022-08-17	
18	XCAL-Mobile/Solo : 5.00.091	2022-08-23	
19	XCAL-Mobile/Solo : 5.00.097 XCAL-Harmonizer : 3.00.028	2022-09-05	
20	XCAL-Mobile/Solo : 5.00.103	2022-09-22	
21	XCAL-Mobile/Solo : 5.00.109 XCAL-Harmonizer : 3.00.030	2022-10-18	
22	XCAL-Mobile/Solo : 5.00.112 XCAL-Harmonizer : 3.00.031	2022-10-31	
23	XCAL-Mobile/Solo : 5.00.114	2022-11-14	

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Rev.	Product Version	Date of Release	Note
24	XCAL-Mobile/Solo : 5.00.120 XCAL-Harmonizer : 3.00.032	2022-11-28	
25	XCAL-Mobile/Solo : 5.00.122	2022-12-12	
26	XCAL-Mobile/Solo : 5.00.124 XCAL-Harmonizer : 3.00.033	2022-12-26	
27	XCAL-Mobile/Solo : 5.00.126 XCAL-Harmonizer : 3.00.034	2023-01-09	
28	XCAL-Mobile/Solo : 5.00.129	2023-01-20	
29	XCAL-Mobile/Solo : 5.00.136 XCAL-Harmonizer : 3.00.038	2023-02-06	
30	XCAL-Mobile/Solo : 5.00.140	2023-02-20	
31	XCAL-Mobile/Solo : 5.00.141	2023-03-08	
32	XCAL-Mobile/Solo : 5.00.143	2023-03-20	
33	XCAL-Mobile/Solo : 5.00.148	2023-04-03	
34	XCAL-Mobile/Solo : 5.00.151 XCAL-Harmonizer : 3.00.039	2023-04-17	
35	XCAL-Mobile/Solo : 5.00.154 XCAL-Harmonizer : 3.00.041	2023-05-02	
36	XCAL-Mobile/Solo : 5.00.156 XCAL-Harmonizer : 3.00.045	2023-05-15	
37	XCAL-Mobile/Solo : 5.00.160 XCAL-Harmonizer : 3.00.049	2023-05-30	
38	XCAL-Mobile/Solo : 5.00.163 XCAL-Harmonizer : 3.00.051	2023-06-13	
39	XCAL-Mobile/Solo : 5.00.166 XCAL-Harmonizer : 3.00.052	2023-06-26	
40	XCAL-Mobile/Solo : 5.00.167 XCAL-Harmonizer : 3.00.053	2023-07-10	
41	XCAL-Mobile/Solo : 5.00.169	2023-07-24	
42	XCAL-Mobile/Solo : 5.00.171 XCAL-Harmonizer : 3.00.055	2023-08-07	
43	XCAL-Mobile/Solo : 5.00.173 XCAL-Harmonizer : 3.00.056	2023-08-21	
44	XCAL-Mobile/Solo : 5.00.175 XCAL-Harmonizer : 3.00.058	2023-09-06	
45	XCAL-Mobile/Solo : 5.00.178	2023-09-18	

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Rev.	Product Version	Date of Release	Note
	XCAL-Harmonizer : 3.00.060		
46	XCAL-Mobile/Solo : 5.00.179 XCAL-Harmonizer : 3.00.061	2023-10-10	
47	XCAL-Mobile/Solo : 5.00.182 XCAL-Harmonizer : 3.00.063	2023-10-25	Urgent Release (GPS logging issue)
48	XCAL-Mobile/Solo : 5.00.183 XCAL-Harmonizer : 3.00.064	2023-11-13	
49	XCAL-Mobile/Solo : 5.00.185 XCAL-Harmonizer : 3.00.066	2023-11-27	
50	XCAL-Mobile/Solo : 5.00.186	2023-12-11	
51	XCAL-Mobile/Solo : 5.00.187	2023-12-26	
52	XCAL-Mobile/Solo : 5.24.001	2024-01-15	New Version Naming rule
53	XCAL-Mobile/Solo : 5.24.002 XCAL-Harmonizer : 3.00.067	2024-01-30	
54	XCAL-Mobile/Solo : 5.24.003 XCAL-Harmonizer : 3.00.068	2024-02-13	
55	XCAL-Mobile/Solo : 5.24.004 XCAL-Harmonizer : 3.00.070	2024-02-26	
56	XCAL-Mobile/Solo : 5.24.005 XCAL-Harmonizer : 3.00.071	2024-03-11	
57	XCAL-Mobile/Solo : 5.24.007	2024-03-25	
58	XCAL-Mobile/Solo : 5.24.009 XCAL-Harmonizer : 3.00.071	2024-04-08	
59	XCAL-Mobile/Solo : 5.24.013 XCAL-Harmonizer : 3.00.073	2024-04-29	
60	XCAL-Mobile/Solo : 5.24.017 XCAL-Harmonizer : 3.00.074	2024-05-13	
61	XCAL-Mobile/Solo : 5.24.019	2024-05-27	
62	XCAL-Mobile/Solo : 5.24.020	2024-06-10	
63	XCAL-Mobile/Solo : 5.24.022 XCAL-Harmonizer : 3.00.075	2024-06-25	
64	XCAL-Mobile/Solo : 5.24.024 XCAL-Harmonizer : 3.00.076	2024-07-08	
65	XCAL-Mobile/Solo : 5.24.027 XCAL-Harmonizer : 3.00.077	2024-07-22	

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Rev.	Product Version	Date of Release	Note
66	XCAL-Mobile/Solo : 5.24.029 XCAL-Harmonizer : 3.00.079	2024-08-05	
67	XCAL-Mobile/Solo : 5.24.031 XCAL-Harmonizer : 3.00.081	2024-08-19	
68	XCAL-Mobile/Solo : 5.24.033 XCAL-Harmonizer : 3.00.082	2024-09-02	

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XCAL-Mobile/Solo 5.24.033

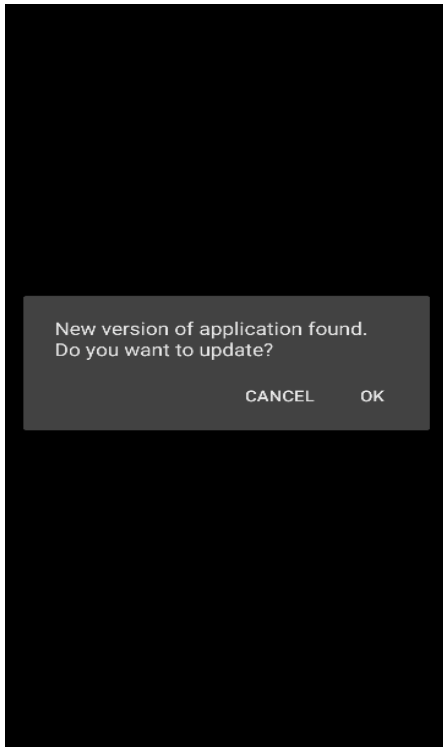
Release Date: 2024-09-02

Resolved Ticket

1. [XM-1214] Question about Wave file Logging to drm file using XCAL-Solo3 (20240808)
2. [XM-1217] Viber shuts down at call count:2

Autocall

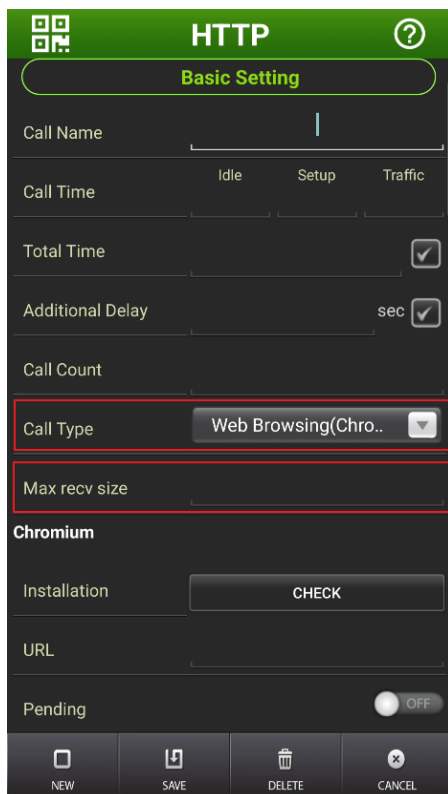
1. [Messenger Talk]
Fixed an issue where the waveform could not be confirmed on the analyzer when saving the MOS wave to a drm file in Messenger Talk.
2. [Messenger Talk/ Online Meeting]
Change When starting a call (Traffic start) in Messenger Talk or Online Meeting, the XCAL-Mobile/Solo app screen has been modified to be displayed on the front.
3. [YouTube]
Change Autocall Traffic Time Auto calculation formula.
Before: Video Duration + 10 sec
After: Video Duration + 60 sec
4. [Netflix]
Added the ability to automatically reject a version update pop-up.



5. [HTTP Call type > HTTP Web Browsing (Chromium)]

Added the Web Browser(Chromium) type in HTTP.

This type supports an option (Max recv size) that terminates the session when the specified number of bytes is received.



6. [HTTP Upload]

Changed the logic so that if the Http File Size is entered incorrectly, the scenario will not

be saved and a pop-up will occur.

RF View

1. [Qualcomm]

Added ability to decode 0xB821 (Version 24) in the Signaling message view.

Function

1. [Inbuilding]

Fixed app crashes when clicking the Info icon in Settings.

2. [Inbuilding]

Fixed an issue where drawing information and floor settings would be reset when exiting the Floor Setting screen.

3. [inbuilding]

Fixed an issue where changing the image in Floor Setting would not be applied when there are more than 10 floors.

4. [inbuilding]

Fixed an issue where an ibwc file would be additionally created in the Logging folder when measuring by loading an ibwc file.

5. [Harmonizer Mode]

Fixed an issue where Solo would not display Device name and Phone number after losing connection to XCAL-Harmonizer.

Known Issue

XCAL-Harmonizer 3.00.082

Release Date: 2024-09-02

Autocall

1. [Inbuilding-Autocall]
Fixed an issue where the device would not perform Autocall when measuring Autocall in Inbuilding.
2. [Inbuilding-Autocall]
fixed an issue where Autocall would be displayed as in progress when connecting a terminal that is measuring Autocall, ending it, and moving to the Inbuilding measurement screen.

RF View

1. [Monitoring]
Fixed app crash issue when moving to Monitoring tab.

Function

2. [Map]
Fixed an issue where Call Status would not be updated.
3. [Call Status]
Fixed an issue where terminal information was not displayed when re-entering the Monitoring tab after moving to another menu.
4. [Inbuilding-ibwc]
Changed the Import iBwave map function so that only ibwc files are listed.
5. [Bluetooth pairing]
Improved the phenomenon of Bluetooth pairing failing. RF related messages are not transmitted in the connecting pop-up when connecting Bluetooth.
6. [Inbuilding-ibwc]
Fixed an issue where the cancel button in the Import iBwave map feature would intermittently not work.
7. [Inbuilding]
Fixed an issue where the Building list would not be deleted.

XCAL-Mobile/Solo 5.24.031

Release Date : 2024-08-19

JIRA Resolved

3. [XM-1207] I can't the scenario with the QR code scan
4. [XM-1215] Interface Xiaomi 13T Pro (23078PND5G) with XCAL-Solo
5. [XM-1206] Inbuilding Google Map (Real Time Map) Does Not Support Satellite View

Autocall

6. [inbuilding]
Fix 0x30E1 logging while Real time map
7. [Online Meeting]
Added feature support for Webex.
8. [inbuilding]
Change Pre-moving point time between Point start/stop and Floor stop
9. [inbuilding]
fix Motion tracking Modifying viewpoint expansion
10. [inbuilding]
Add satellite map mode to real-time map

RF View

2. [Qualcomm Log Mask]
Updated the Log Mask
 - Common - UIM : Check/Uncheck updated
 - LTE - Lower Layer1_1 : Delete item
 - LTE - Management Layer1 : Check/Uncheck updated
 - LTE - NB1 FW : Added item
 - Event Report_Common - Common-DS : Added item
 - Event Report_Common : Added item
 - Event Report_LTE - LTE-LTE-RRC : Added item
 - Event Report_5GNR - 5GNR-RRC : Added item
 - Event Report_5GNR - 5GNR-ML1 : Added item

Function

11. [RAT/Band Lock(Hidden-adb)]

Add model SC-52E,SCG26

12. [inbuilding]

Fixed an issue where the vertical image was changed to horizontal.

Known Issue

XCAL-Harmonizer 3.00.081

Release Date : 2024-08-19

Autocall

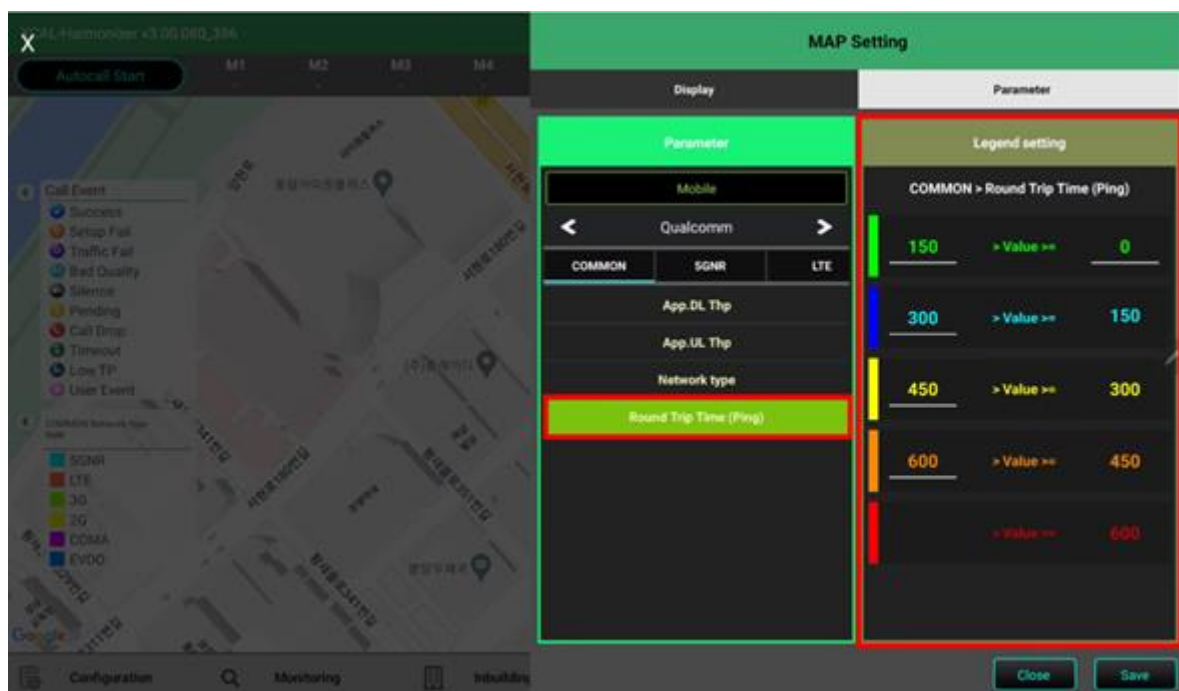
RF View

Function

1. [MAP]

Add the ping RTT Parameter

- This feature takes a ping RTT value as a parameter and plots it on a map.



XCAL-Mobile/Solo 5.24.029

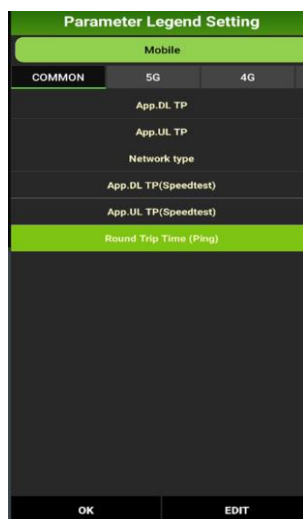
Release Date : 2024-08-05

JIRA Resolved

6. [XM-1172] Inbuilding. Option to disable confirmation window
7. [XM-1187] No SIP messages on S23
8. [XM-1204] Crashing solo app with Xiaomi 14
9. [XM-1186] Conflict between versions of XCAL Netutils
10. [XM-1173] Inbuilding - Ping RTT parameter on map
11. [XM-1191] CLONE - Wrong Time in GPS Status window
12. [XM-1142] CHINA ACCUVER) Add applications for VQML testing

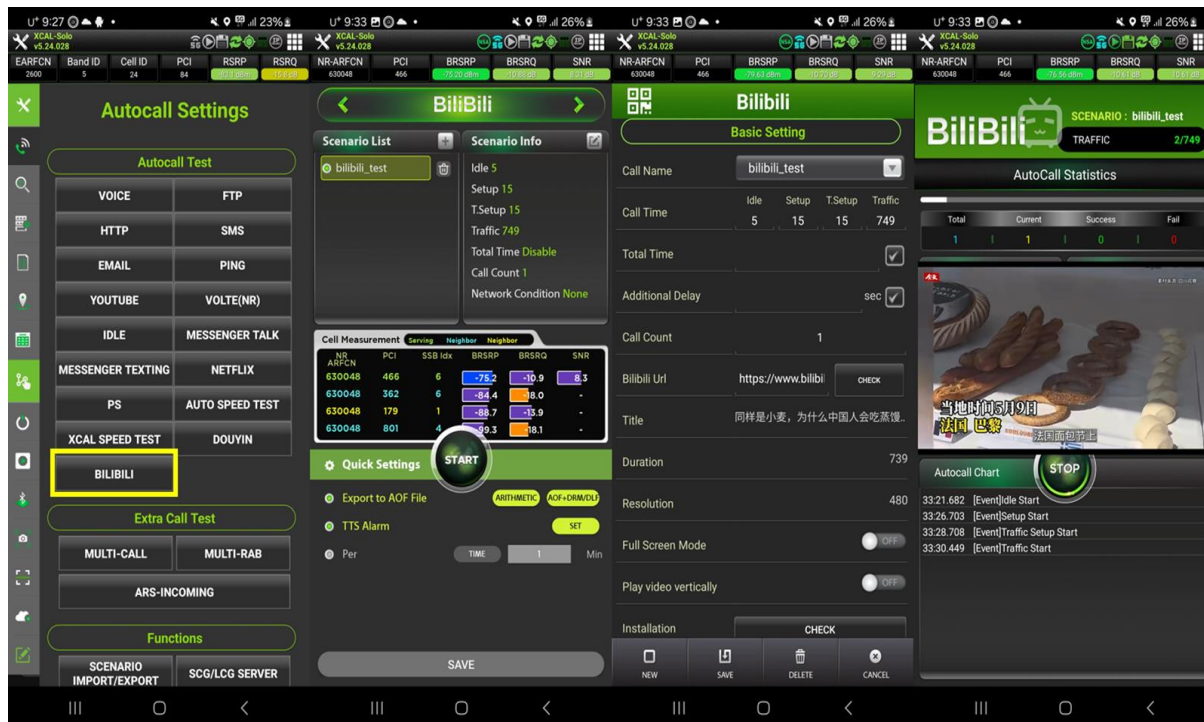
Autocall

13. [Messenger Talk/Texting]
Added support for Zalo Messenger app in Messenger Talk/Texting.
14. [Online Meeting]
Add Send type, Traffic start condition notation to Call Info in Autocall Statistics screen of Online Meeting.
15. [Mobile SNS]
Fixed an issue where it was not possible to determine if a mobile SNS-Instagram autocall was successful.
16. [MAP] Add the ping RTT Parameter
This feature takes a ping RTT value as a parameter and plots it on a map.



17. [Bilibili]

Add to Bilibili Autocall



18. [Youtube]

Completed and added Chromium 64bit development

Apps developed in 32-bit are not recommended or supported on modern devices. We've redeveloped Chromium to 64-bit so that it can be used on modern devices.

19. [inbuilding]

Pre-Moving, Add first Point start logging, Change Floor end X,Y Coordinate.

Inbuilding Statistics Measurement Position Info Measure Type	Inbuilding Statistics Measurement Position Info Event	Inbuilding Statistics Measurement Position Info Pos Idx	Inbuilding Statistics Measurement Position Info X Pos	Inbuilding Statistics Measurement Position Info Y Pos
Moving	floor start	0	434	934
Moving	point start	0	434	934
Moving	point end	0	638	205
Moving	point start	1	638	205
Moving	point end	1	1415	101
Moving	point start	2	1415	101
Moving	point end	2	1674	795
Moving	floor end	0	1674	795

RF View

3. [3G Summary/3G Custom Graph]

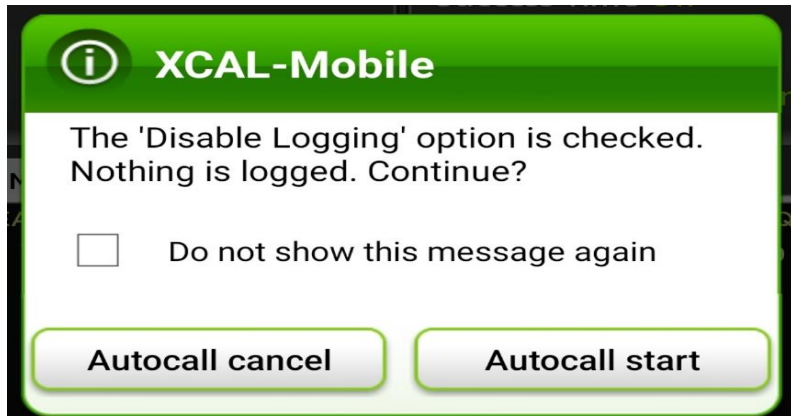
Fixed an issue where values were remaining in 3G Summary and 3G Custom Graph.

Function

1. [Disable Logging]

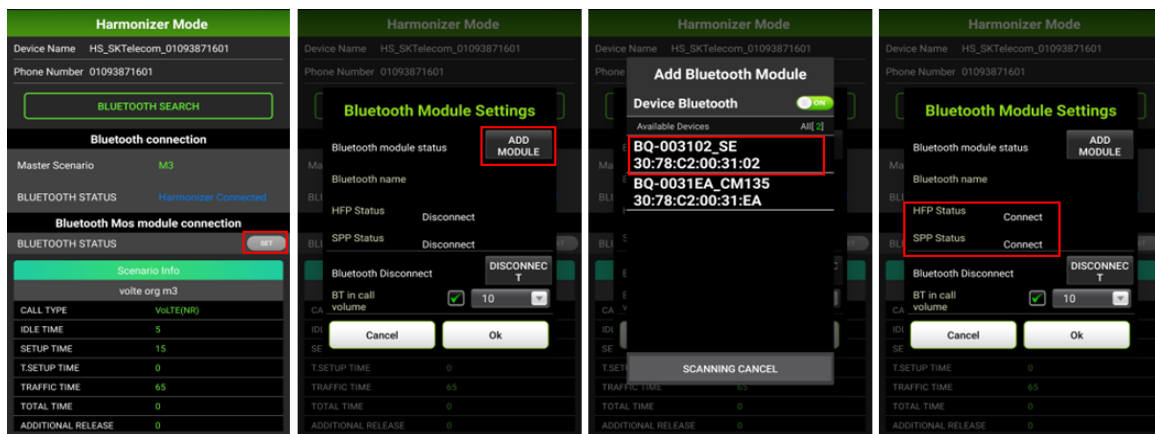
When Autocall starts where the 'Disable Logging' option is turned on, a pop-up window is

added to confirm application of the option.



2. [Harmonizer Mode-Bluetooth Module Setting]

An option to set the Bluetooth module has been added to Harmonizer Mode.



3. [Inbuilding]

Fixed an issue where Image name was not logged when measured with Pre-Moving type.

Known Issue

1. [Installation]

The exception was made by asking Samsung Electronics for the part that 'judged as a malicious app' that occurred when installing APK on Samsung smartphones. Samsung Electronics' F/W exception handling version is from ASKS v8.1 Release 20240723. Settings > Mobile Phone Information > Software Information > Security Software Version

XCAL-Harmonizer 3.00.079

Release Date : 2024-08-05

Autocall

1. [MOS Setting]

The Solo Play Volume range value has been deleted, so I added it again.were remaining in 3G Summary and 3G Custom Graph.

2. [MOS Setting] The Bluetooth MOS Test option was added.

* Turned on, it is Bluetooth MOS.

* Turned off, it is Audio MOS.

RF View

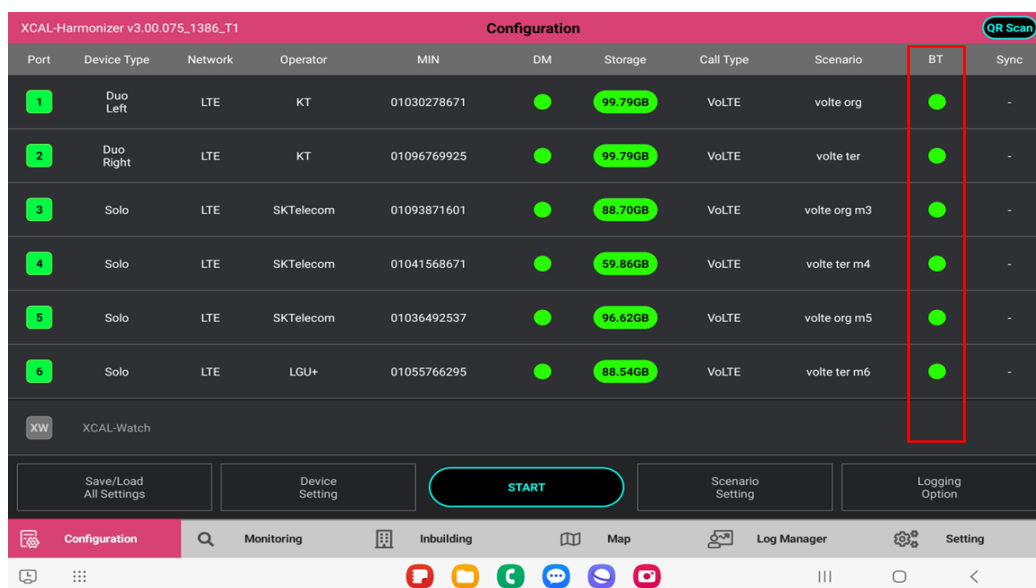
Function

2. [Bluetooth module setting]

The Bluetooth module setting menu provided in Setting has been deleted. This is because the BT module is connected by the device and is no longer manipulated by the Harmonizer.

3. [Configuration]

A UI has been added to check the status of Bluetooth module connection.



XCAL-Mobile/Solo 5.24.027

Release Date : 2024-07-22

JIRA Resolved

- 13. [XM-1186] Conflict between versions of XCAL Netutils
- 14. [XM-1190] XCALOSOLO: Youtube fixed quality play issue.
- 15. [XM-1194] What is Media Quality: Default in YouTube Call?
- 16. [XM-1195] The app crashes (240717)

Autocall

- 20. [Inbuilding]
 - fix Premoving second idx 0x30E1 logging
- 21. [Inbuilding]
 - fix loading ibwc file
- 22. [Douyin]
 - Add to Douyin Autocall



- 23. [Simple EMOS]
 - Changed the traffic start condition UI to be activated when the VoLTE logo is long pressed in the Simple EMOS scenario.
- 24. [Multi-Session]

Fixed an issue where the info separator for each session was being logged incorrectly in the Multi-Session type.

25. [MOS]

Fixed an issue where MOS information was missing in the 0xA0FF Autocall Status log.

RF View

3. [SUPL Message]

Added a reference message to the parser so that the values can be displayed in the SUPL message view.

Function

4. [Bluetooth module]

Fixed an issue where the app crashes when connecting the Bluetooth module of the XCAL-Solo app in the Harmonizer kit.

XCAL-Harmonizer 3.00.077

Release Date : 2024-07-22

Autocall

RF View

Function

Known Issue

XCAL-Mobile/Solo 5.24.024

Release Date : 2024-07-08

JIRA Resolved

1. [XM-1163] (n/a) Inbuilding Plotting issue on XCAL-Mobile 'pre-moving' and 'DRM '
2. [XM-1175] (n/a) Inbuilding: any type does not work perfectly
3. [XM-1180] No response to commands in XCAL-IoT

Autocall

1. [HTTP]

DNS Resolution time has been added to the ETSI KPI of HTTP Web type.



Autocall Chart		STOP	ETSI	ETSI 103.559
Service Non-Accessibility				0.0%
Setup Time [s][CUR/AVG]				-
Connection attempt				1
IP-Service Access Failure Ratio				0.0%
Session Failure Ratio				0.0%
Session(Browser Loading) Time [s][CUR/AVG]				8.403 / 8.403
Mean Data Rate [kbps][CUR/AVG]				17285.835 / 17285.835
Data Transfer Cut-off Ratio				0.0%
Data Transfer Cut-off Ratio				0.0%
Data Transfer Cut-off Ratio				0.0%
DNS Resolution Time(IPv4)				184/17/28
DNS Resolution Time(IPv6)				

2. [inbuilding]

Change the Horizontal image to apply normally

3. [inbuilding]

Change the floor end value to the X, Y value coordinates of the last point when pre-moving is measured

4. [inbuilding]

Change version 0 to 1 Pre-Moving.

5. [inbuilding]

fix the issue of 0x30E1 logging when measuring the real location of real timemap, image

6. [inbuilding]

Add pop-up when loading 0x30E2 to log inbuilding replay without 0x30E2

7. [inbuilding]

No Image file load button when entering floor setting

8. **[inbuilding]**

A problem that is set in Default mode on the measurement screen after TAB, JPG File is applied

9. **[inbuilding]**

The problem of disappearing between points after Autocall measurement

Function

1. **[AOF]**

Image name field has been added to AOF Inbuilding Parameter

2. **[AOF]**

Add version field in indoor measurement info

3. **[TSMA6B]**

Request to add LTE DL/UL option and update Frequency/Band

4. **[PCTEL]**

Fix BlindScan Status: wait

XCAL-Harmonizer 3.00.076

Release Date : 2024-07-08

Autocall

1. [Iperf]

Added to prevent scenario from being applied if the XCAL-Iperf APK of the linked Client is not installed

RF View

Function

1. [Log file manager]

Fixed it so that the log file is visible and refreshed to be updated in log file manager

Known Issue

XCAL-Mobile/Solo 5.24.022

Release Date : 2024-06-25

JIRA Resolved

1. [XM-1137] Autocall with no logging
2. [XM-1145] Swapped BTS sectors on the map
3. [XM-1152] (n/a) parameter is not visible if bar is yellow
4. [XM-1150] RCS-Link autocall does not work on Solo v5.24.019_1329

Autocall

1. [MessengerTalk]

The WeChat messenger app has been added to Messenger Talk.

2. [Iperf]

separated Iperf Autocall into a separate app. fixed to prevent autocall start if XCAL-Iperf is not installed.

Function

1. [RF View]

Changed the RGB color code for yellow of RF Value to a darker shade.

2. [5GNR-ML1 Parameter]

Added 5GNR-ML1 Parameter in Qualcomm Event Report only.

3. [Disable Logging]

Added "Disable logging" option in the Log data settings.

4. [Map]

Fixed an error in the sector direction display of base stations.

5. [Inbuilding]

Added logging of Inbuilding's Image name.

6. [Inbuilding]

Fixed inbuilding autocall point logging error, add delay during point 1 ~ 2.

XCAL-Harmonizer 3.00.075

Release Date : 2024-06-25

Autocall

1. [Youtube]
2. Fixed an issue where YouTube fixed mode does not start

RF View

Function

Known Issue

1. [Iperf]
Client XCAL-Iperf does not include exception handling for not installing a separate APP.

XCAL-Mobile/Solo 5.24.020

Release Date : 2024-06-10

JIRA Resolved

5. **[XM-1121] Solo Logging not stopping**
- 6.

Autocall

3. **[TWAMP]**
Modified the Session Range value from (1~5) to only 1 when measuring ETSI Traffic Pattern.
4. **[Speed Test]**
Modified the success criteria for XCAL Speed Test.

Function

7. **[Qualcomm Diag Request]**
Fixed an issue where there was an error in AOF naming when using the Split function.
8. **[Solo2 / AOF]**
Fixed an issue where the app would crash when measuring HTTP with the AOF option turned on in Solo2.

Known Issue

1. **[MediaTek chipset]**

fix issues that failed to display RF data from XCAL-Solo on SM-A156(A15 device)

XCAL-Mobile/Solo 5.24.019

Release Date : 2024-05-27

JIRA Resolved

7. [XM-1121] Solo Logging not stopping
8. [XM-1128] The converted dlf file cannot be opened with QCAT
9. [XM-1112] TWAMP Summary on Main Screen
- 10.[XM-1114] (CHINA) LICENSE Cannot Recognize IMEI
- 11.[XM-1123] Samsung A34 DM port not connecting to solo box
- 12.[XM-1127] A15 does no display any RF data in XCAL-Solo

Autocall

5. [TWAMP]

Modified the Session Range value from (1~5) to only 1 when measuring ETSI Traffic Pattern.

6. [Speed Test]

Modified the success criteria for XCAL Speed Test.

- Existing: If any of DL, UL, or Ping succeeds, it is considered successful.
- Changed: DL, UL, and Ping must all succeed to declare success

7. [Speed Test]

Fixed to automatically calculate the 'XCAL-Speed Test' Traffic time.

Traffic Time = DL Warm up + DL Speed Time + UL warm up + UL Speed Time + Ping Test time (10 sec) + 5 sec

8. [TWAMP]

Fixed an issue where the call name was displayed incorrectly when TWAMP Autocall in Main Screen Mode 2 to display correctly.

9. [Speed Test]

Changed the way AutoCall Statistics is represented in 'Auto Speed Test' and removed the Call Time item from the Autocall Scenario Setting window accordingly.



Function

9. [Qualcomm Diag Request]

Fixed the data length error of 0xAFF1.

10.[Smart Throughput]

Added 0xEF74(97) Mobile Total (Interface) Throughput.

Uses an API that collects throughput by interface.

11.[Autocall Status]]

The strInfo value of 0xA0FF (2) has been changed to be logged the same as the Info value of Call Event.

12.[Log Naming / AOF]

Fixed an issue where there was an error in AOF naming when using the Split function.

13.[Solo2 / AOF]

Fixed an issue where the app would crash when measuring HTTP with the AOF option turned on in Solo2.

Known Issue

2. [MediaTek chipset]

fix issues that failed to display RF data from XCAL-Solo on SM-A156(A15 device)

XCAL-Mobile/Solo 5.24.017

Release Date : 2024-05-13

JIRA Resolved

1. [XM-1118] Solo crashes with Xiaomi 12 and Xiaomi 13

2. [XM-1105] XCAL-Mobile autostart time

Autocall

1. [Voice/VoLTE/PS Video]

In the MOS Setting options, the default value of the Save wave stream to DRM file option has been changed to be checked.

Function

1. [Log Naming]

Fixed an issue where the OK button in the pop-up was deactivated when using the After-test option.

2. [Qualcomm / LogMask]

The Log Mask has been changed to provide a recommend value below.

- 1685 EVENT_LTE_ML1_STATE_CHANGE
- 1501 EVENT_LTE_RACH_ACCESS_START
- 2690 EVENT_LTE_RACH_ACCESS_RESULT_V2
- 2689 EVENT_LTE_RACH_ACCESS_START_V2
- 3291 EVENT_LTE_RACH_ACCESS_RESULT_V3
- 3292 EVENT_LTE_RACH_ACCESS_START_V3

3. [Solo2 / Measuring]

Fixed an error where DM disconnected after logging ended.

4. [XCAL-Mobile / Bluetooth Module Auto Connect]

Fixing the phenomenon of incorrectly displaying dedicated options that should be displayed in XCAL-SOLO with MC-CM135 configuration.

5. [AOF Logging]

Fixed an issue where entries for the Application Info packet group were missing from logging.

XCAL-Harmonizer 3.00.074

Release Date : 2024-05-13

There is no revision history. Just updated version code for XCAL-Mobile/Solo connection.

XCAL-Mobile/Solo 5.24.013

Release Date : 2024-04-29

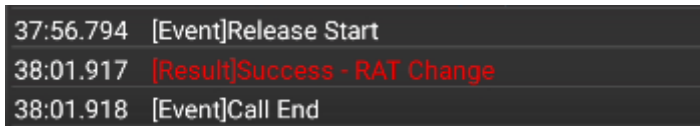
JIRA Resolved

1. [XM-1077] Improvements for CA View and Accessibility notification
2. [XM-1078] Favorite icon
3. [XM-1091] XCAL-Solo.v5.24.009 crashes when starting Manual Logging
4. [XM-1092] Colour configuration
5. [XM-1093] Graph Synchronization in RF View
6. [XM-1101] Empty WiFi Parameter

Autocall

1. [VoLTE/FTP/PS Video - Network Changed]

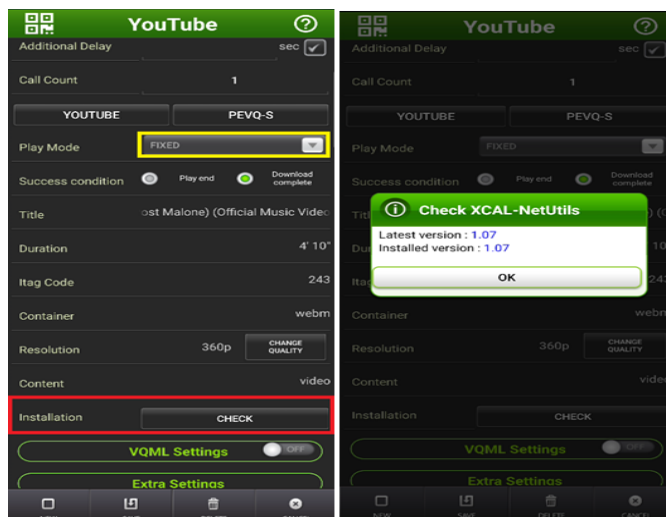
When the Network Changed condition is met, the text has been changed to show Success-RAT Change in the Autocall Chart.



2. [Youtube]

Changed to require Net-Utils to be installed to run YouTube Fixed Mode.

After selecting Fixed mode in Play Mode, it is implemented to install automatically when the video is such, and by touching the Installation button, you can check the supported version and installed version.



RF View

1. [Common]

Color display according to RF value has been modified to be more intuitive.

BRSRP
-48.86 < value
-66.71 < value <=-48.86
-84.57 < value <=-66.71
-102.43 < value <=-84.57
-120.29 < value <=-102.43
-138.14 < value <=-120.29
value <= -138.14

2. [PCTel Scanner]

Fixed a bug where scanner information was not recorded in AOF.

Function

6. [Favorite Icon]

Modified so that the Favorite Icon function can be used during Autocall execution.

7. [Manual Logging]

The app death phenomenon has been corrected when starting manual logging.

8. [Dual SIM – AOF]

Fixed app crash bug when creating AOF file with Dual SIM in XCAL-Mobile.

9. [Scanner]

create AOF with scanner Parameter when Replay DRM file.

10. [Inbuilding]

App crash when set Image real location to Image plan

XCAL-Harmonizer 3.00.073

Release Date : 2024-04-22

Autocall

3. [VoLTE]
Fix Voice/VoLTE - Pick up count

RF View

2. [Monitoring]
Monitoring screen transition speed has been improved.

Function

XCAL-Mobile/Solo 5.24.009

Release Date : 2024-04-08

JIRA Resolved

1. [XM-1023] Cause of shutdown during measurement on train
2. [XM-1066] SIM Index (13880)
3. [XM-1053] (n/a) VoWiFi scenario cannot detect 2G call.
4. [XM-1052] (n/a) VoWiFi call is not smoothly working.
5. [XM-839] System Transition Drop (For 5G NR)
6. [XM-1077] Improvements for CA View and Accessibility notification
7. [XM-1078] Favorite icon
8. [XM-1079] VoLTE call information disappear after dual view

Autocall

1. [Bluetooth MOS Settings]
The Bluetooth in call volume setting has been changed to a drop-down list format.
(Bluetooth in call Volume Default setting: 10)
2. Fixed an issue where it was not possible to determine if the network changed from 5G NR (NSA) > LTE when using the Network Change option.
3. The traffic determination conditions for LTE and 2G/3G have also been changed to be used in VoWiFi mode.

RF View

1. Changed SIM Index logging to 1 or 2 for Single SIM as well.
2. [5G NR CA]
In RF View > 5G NR CA, an option has been added to allow users to select and view Pcell and Scell through the Setting icon at the top right.

Function

1. [Favorite Icon]
A pop-up message has been added informing you that 'the Favorite Icon button cannot be used during Autocall operation'.
"The Favorite Icon feature cannot be used while Autocall is running."
2. [Accessibility]
The content of the Accessibility permission request pop-up message has been modified in more detail.
Before change: "For comfortable Autocall use, please activate XCALv5 option in Accessibility."
After change: "For comfortable Autocall use, Please activate Accessibility.
After selecting 'Go to Settings', activate.
the options in the order below.
(Installed apps > XCALv5 > ON)"

XCAL-Harmonizer 3.00.072

Release Date : 2024-04-08

There is no revision history. Just updated version code for XCAL-Mobile/Solo connection.

XCAL-Mobile/Solo 5.24.007

Release Date : 2024-03-25

JIRA Resolved

1. [XM-1064] Log Scenario Naming

Autocall

1. [Common Solo logging]
Fixed the phenomenon of 'Solo Logging Error' occurring when performing autocall measurement for a long time.

RF View

1. [5G NR Dual Connectivity]
Changed the Throughput reference value to Total Throughput, which includes not only PCells but also SCells.
2. [AOF]
Added Smart Throughput Parameter.

Function

1. [RF View]
Fixed an issue where the Edit function was automatically activated in Menu > RF View.

XCAL-Mobile/Solo 5.24.005

Release Date : 2024-03-11

JIRA Resolved

1. [XM-1054] IBWC file not loading for inbuilding. JPG file does not exist

Autocall

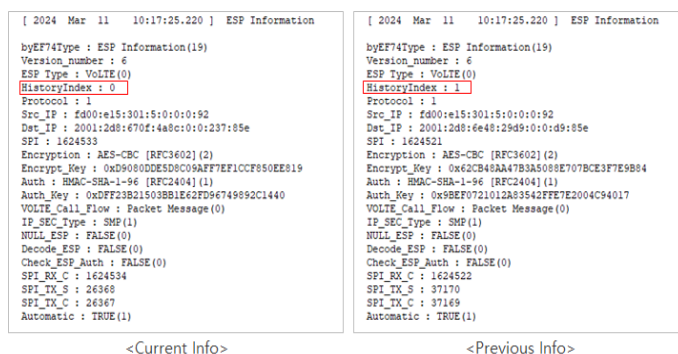
1. [XCAL-Daemon]
XCAL-Daemon AUIDO Mode automatically changes according to VoLTE/VoWif/Messenger EMOS.
2. [Messenger Talk]
Messenger Talk adds support for the autocall function for Signal messenger. (Signal messenger license required)

RF View

- 1.

Function

1. [DSDS]
Added SIM Change condition using 0x1D8A Log.
2. [ESP Info]
Added the ability to save previous ESP Info as well.



3. [R&S Scanner]
update [T5MA6B] ViCom 23.3

XCAL-Harmonizer 3.00.071

Release Date : 2024-03-11

Autocall

1.

RF View

Function

1. [Setting]
Changing the setting Confirm popup to not appear when Changing Autocall item
2. [UI]
Provide version excluding debug logs

XCAL-Mobile/Solo 5.24.004

Release Date : 2024-02-26

JIRA Resolved

1. [XM-1040] Question about the positioning accuracy of External GPS (

Autocall

RF View

1. [EF75(50)-5G NR ReconfigurationInfo]
Added the Serving PCI/NR-ARFCN parameter in 0xEF74(50)-5GNR ReconfigurationInfo.
2. [Extended Mobile Message]
Fixed a bug where 0x1FEB was logged even when the Extended Mobile Message option was turned off in Solo.

Function

1. [Dual SIM]
Fixed a bug that caused the app to freeze on Dual SIM devices.
2. [XCAL-Remote]
Added XCAL-Remote GUI improvements to match the display size of Kyocera K5G.

XCAL-Harmonizer 3.00.070

Release Date : 2024-02-26

Autocall

1. [Iperf]

Iperf Scenario Settings - UI does not change even when Iperf Daemon option is set to On

RF View

Function

XCAL-Mobile/Solo 5.24.003

Release Date : 2024-02-13

JIRA Resolved

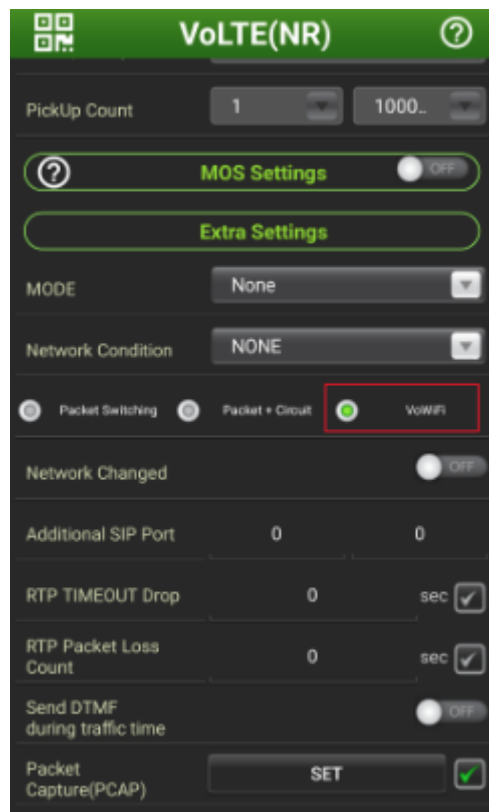
1. [XM-1018] VoWiFi on XCAL-Mobile
2. [XM-1030] Question about NTP Time Not Synchronized (240116)
3. [XM-1041] SOLO3 doesn't have Samsung s23 FE (SM-S711U1) model and forced closed

Autocall

1. [VoLTE]

Added VoWiFi mode in VoLTE call.

VoWiFi determines the SIP message of the packet received through PCAP.



2. [Rakuten]
Changed the Rakuten's NTP server IP.
3. [Voice/VoLTE]
EMOS can be measured normally by changing Daemon Auth key.

RF View

1. [Dual SIM]]

Added DSDS KPI Info(0xEF74[Type=96]) log.

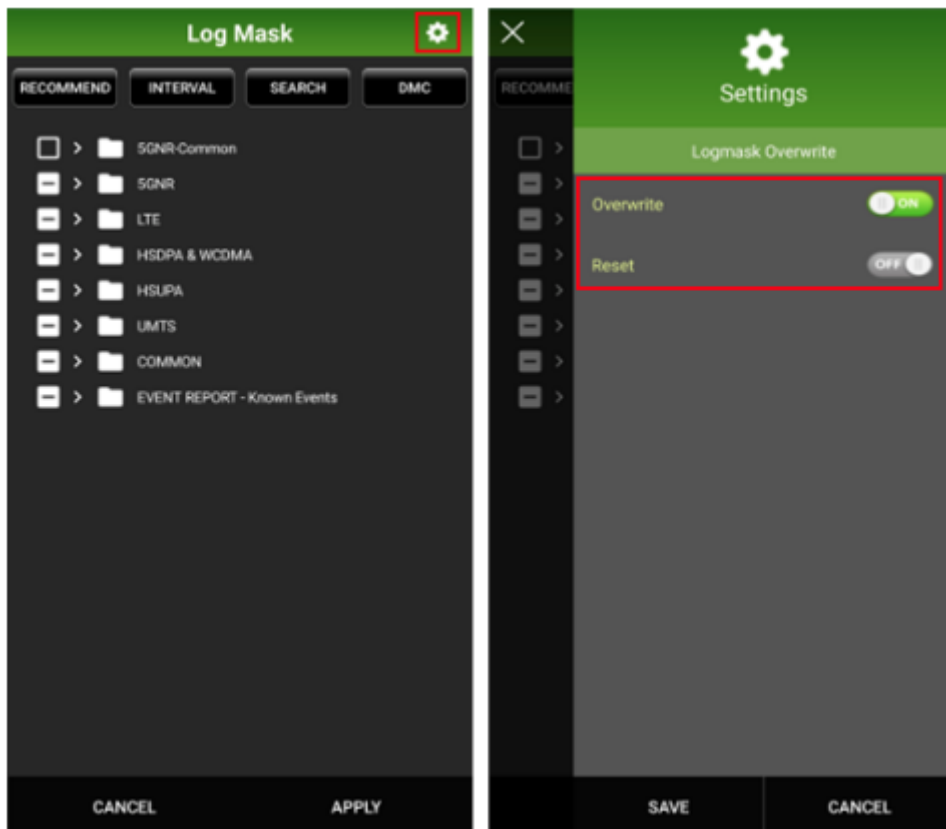
Function

1. [LogMask]

Added the Option to select the method of setting the Log Mask.

Change this option when Log Mask behaves differently from the value you set.

- Overwrite: Overwrite the Log Mask.
- Reset: Reset and set the Log Mask.



2. [Dual SIM]

Added the ability to save ESP Information for each SIM on Dual SIM devices.

XCAL-Harmonizer 3.00.068

Release Date : 2024-02-13

Autocall

2. [Inbuilding]

Modify the phenomenon of BT disconnected when Autocall starts after the inbuilding setting,

RF View

Function

XCAL-Mobile/Solo 5.24.002

Release Date : 2024-01-30

JIRA Resolved

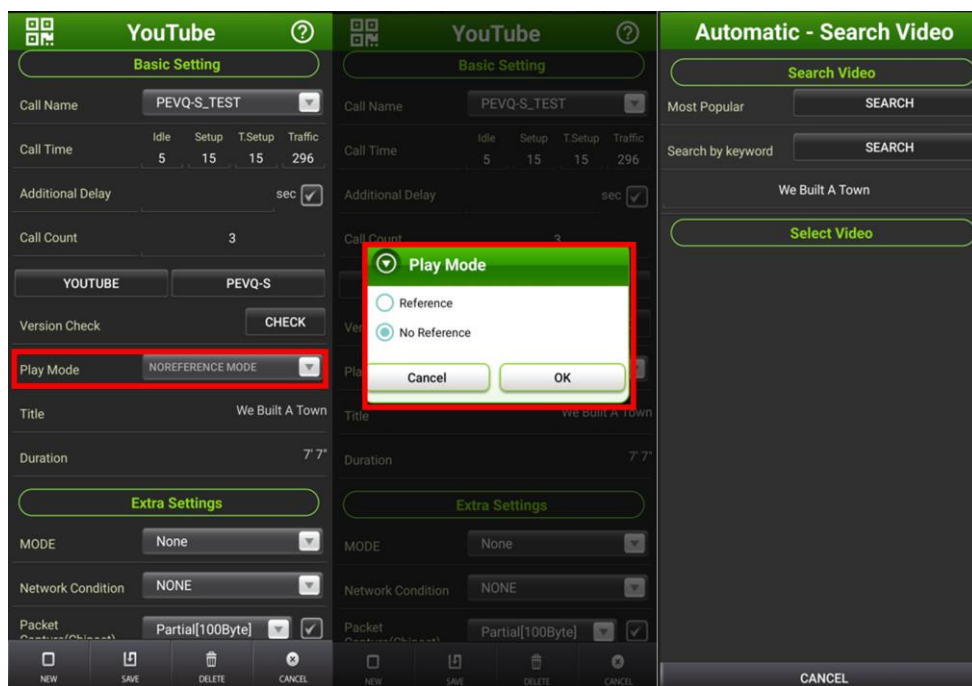
1. [XM-1025] Youtube Reproduction delay is too long.
2. [XM-1031] Add Chip Type to Naming Log File setting (13822)

Autocall

1. [Voice/VoLTE/PS Video]
Changed the code for Call Setup Status during Voice Call Event (from 46 to 20).
2. [TWAMP]
Add an interactive score for a traffic pattern.



3. [Youtube]
Add YouTube PEVQ-S No Reference Mode.

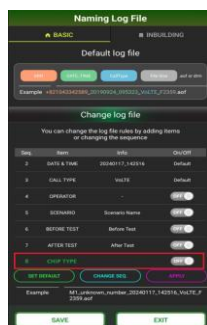


RF View

- [Qualcomm Log Mask]
 - Updated the Qualcomm Log Mask.
 - 0x1D8A : DS TRM MGR INFO
 - 0x1C6E : IPA Common Stats
 - 0x1C6F : IPA DL Common Stats
 - 0x1C71 : IPA UL Common Stats

Function

- [Save to PCAP File(Non-root)]
 - Fixed an app crash bug when measuring Autocall after setting up VPN PCAP.
- [Log Naming Option]
 - Fixed an issue where Save to PCAP file did not work.



XCAL-Harmonizer 3.00.067

Release Date : 2024-01-30

Autocall

RF View

Function

1. [Inbuilding]
Fixed the inbuilding Floor setting (Can't Image save and select Image).

XCAL-Mobile/Solo 5.24.001

Release Date : 2024-01-15

JIRA Resolved

1. [XM-999] XCAL-Mobile is unable to Setup China Telecom customer service calls.
2. [XM-867] Solo, causing DSDS Device to have dead modem.

Autocall

1. [VoLTE SIP]
Even if two SIP Statuses exist in one packet during VoNR measurement, both SIP Statuses have been modified to be processed.

RF View

1. [DM Summary]
Fixed an issue where the Qualcomm Diag Response message Drop Count and Allocation Count cycles were out of sync.

Function

1. [Log Split]
Fixed an issue where there was an error in SIM2's log file naming when using Log Split.
2. [Save to PCAP file]
Fixed an issue where Save to PCAP file did not work.
3. [Alarm Setting]
"No DM message option" has been added to Alarm Setting. A pop-up occurs when in No DM status, and if it is not restored within 60 seconds, it will reboot.

Alarm Setting

System	Transition	Call State	RF Condition	QC Event Report
SELECT ALL		UNSELECT ALL		
Category		TTS	Toast	
GPS Status		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
DM Status		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Temperature Status		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Temperature >	70	°C		
RRE Request		<input type="checkbox"/>	<input type="checkbox"/>	
PCI OverLapping (MOD3)		<input type="checkbox"/>	<input type="checkbox"/>	
RSRP >	0.0	dBm		
PCI Collision		<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="radio"/> Best Neighbor RSRP – Serving RSRP >	3.0			
<input type="radio"/> Best Neighbor RSRQ – Serving RSRQ >	0.0			
Modem processor log missing		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
>	0	%		
No DM message		<input checked="" type="checkbox"/>		
OK		CANCEL		

DM Summary View

Mobile Status Count

Total Message Count(1 sec)	1
Log Allocation Count(10 sec)	0
Dropped Message Count(10 sec)	301
Drop Rate	100.00

XCAL-Mobile

No DM Message
Total Message Count : 100
DM message is low.
You must reboot the device.
The device reboots after about **39 seconds**.

Cancel Reboot

XCAL-Mobile/Solo 5.00.187

Release Date : 2023-12-26

JIRA Resolved

1. [XM-1017] XCAL-Mobile (FLS) Crash

Autocall

1. [Voice]
Fixed an issue where Harmony time sync error occurred when measuring MOS with Voice Call MtoM Type.
2. [Voice/VoLTE]
When measuring with Voice, VoLTE MtoM Type, if a call is stopped in ORG or TER, the other side is also automatically stopped.

RF View

Function

1. [License]
Fixed an issue where the IMEI could not be read or a freeze occurred when downloading a license.
2. [GPS]
Added NTRIP Client Mount Point search function and a check box to check the selected Mount Point.

Mount Select

YNJU-RTCM30	<input type="checkbox"/>
ANH-RTCM30	<input type="checkbox"/>
ANSG-RTCM23	<input type="checkbox"/>
ANSG-RTCM31	<input type="checkbox"/>
BHAO-RTCM30	<input type="checkbox"/>
BHAO-RTCM32	<input type="checkbox"/>
BOEN-BINEX	<input type="checkbox"/>
BOEN-RTCM23	<input type="checkbox"/>
BOEN-RTCM31	<input type="checkbox"/>

CANCEL OK

Mount Select

suwn

SUWN-BINEX	<input type="checkbox"/>
SUWN-RTCM23	<input type="checkbox"/>
SUWN-RTCM31	<input type="checkbox"/>
SUWN-RTCM32	<input type="checkbox"/>

CANCEL OK

XCAL-Mobile/Solo 5.00.186

Release Date : 2023-12-11

JIRA Resolved

1. [XM-867] Solo, causing DSDS Device to have dead modem
2. [XM-971] Accuver Report Not Displaying Values for RSRP and RSRQ

Autocall

1. [Messenger Talk]

In WhatsApp voice calls, the sound quality may deteriorate for a few seconds after the call is connected.

Therefore, when measuring voice quality in a WhatsApp voice call, an issue was discovered in which an invalid MOS value was measured for the first MOS clip.

Afterwards, when measuring voice quality in Messenger Talk: WhatsApp, the first MOS clip is excluded from the measurement results.

The screenshot displays the 'Messenger Talk' interface with the following data:

Total	Current	Success	Fail
100	26	25	0

Call Info:
 Messenger ... WhatsApp
 Type: Termination(...)
 Dial Number: inno7513
 MOS: true
 Traffic start Condition: whatsapp_logcat_S22.alc

Talk Status:
 Setup Time: 21.832 Sec ms
 MOS(Cur): 4.69
 MOS(Max/Min): 4.67/4.67
 MOS(Avg): 4.67

Autocall Chart: STOP (button), ETSI (button)

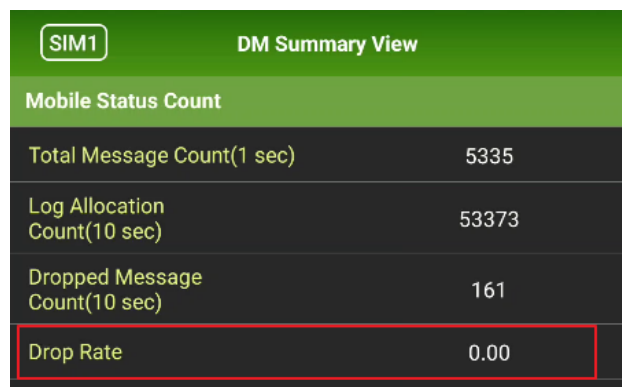
Log Events:

- 08:26.004 [Event] Traffic Start
- 08:26.050 TER Traffic Start
- 08:26.051 [MOS]Time sync type : Offset time sync
- 08:26.051 [MOS]Start command received from offset
- 08:26.051 [MOS]Current offset time : 10:08:26.005
- 08:26.051 [MOS]Request mos start time : 10:08:28.005
- 08:26.051 [MOS]Wait Time : 2000ms
- 08:27.024 [MOS]Request MOS mute On
- 08:28.027 [MOS]Start recording (26-0) 180308320
- 08:36.046 [MOS]Stop recording (26-0)
- 08:36.126 [MOS]MOS Demonstration End
- 08:36.546 [MOS]Start recording (26-1) 180308320

RF View

1. [DM Summary]

Added Drop rate parameter in DM Summary View



The screenshot shows a mobile status summary for SIM1. It lists several metrics: Total Message Count (1 sec) at 5335, Log Allocation Count (10 sec) at 53373, and Dropped Message Count (10 sec) at 161. A new row, 'Drop Rate', is highlighted with a red border and shows a value of 0.00.

Mobile Status Count	
Total Message Count(1 sec)	5335
Log Allocation Count(10 sec)	53373
Dropped Message Count(10 sec)	161
Drop Rate	0.00

Function

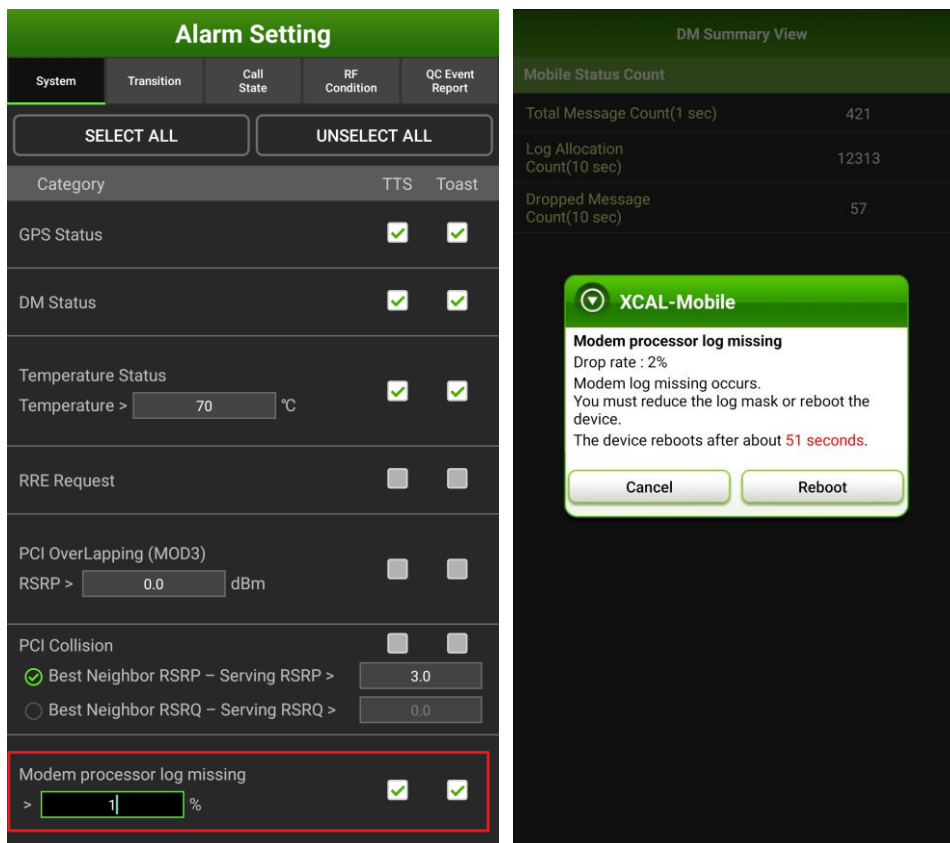
1. [Alarm Setting]

The Modem processor log missing alarm pop-up has been improved.

Option location: Setting - Control - Alarm Manager

If the drop rate is outside the setting range, it operates as follows.

- Before Logging: If the drop rate exceeds the set value even after 60 seconds, the device is rebooted.
- After Logging: A pop-up will appear stating that the drop rate has been exceeded.



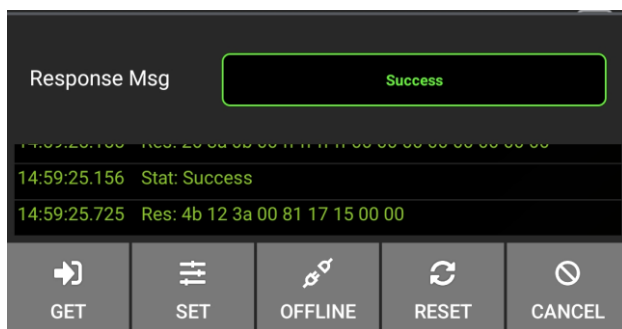
2. [Dual SIM]

Changed the SIM Change icon.



3. [Qualcomm NV Network Lock]

Changed the Qualcomm N/V Network Lock command line view.
Shows Request/Response messages and Status results.

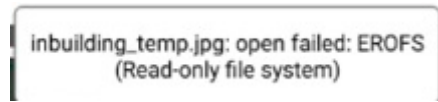


4. [Qualcomm NV Network Lock]

In Qualcomm NV Network Lock, a 3-second delay has been added before performing a GET/SET operation after changing the SIM Index when using Dual SIM.

5. [Inbuilding]

Fixed inbuilding pop-up in Solo Image plan measurement.



XCAL-Mobile/Solo 5.00.185

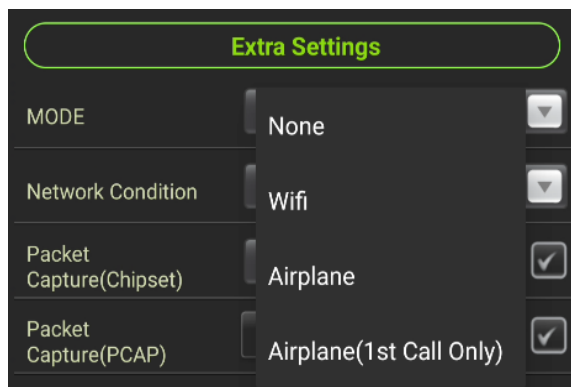
Release Date : 2023-11-27

JIRA Resolved

Autocall

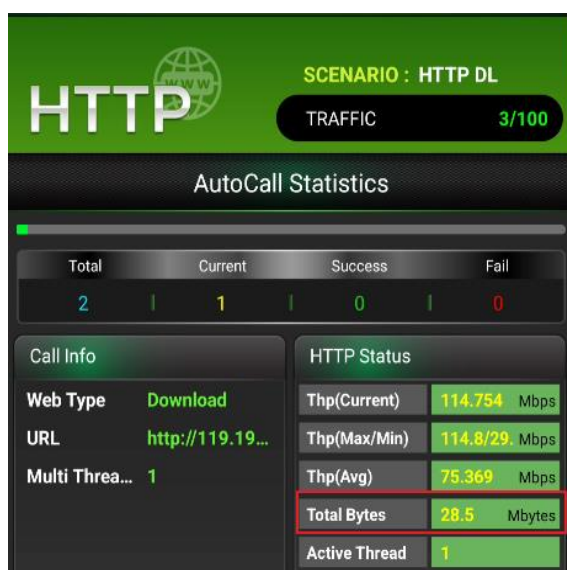
1. [Common]

The Mode of Extra Setting has been changed from button to menu option.



2. [HTTP]

In HTTP, the unit of Total Byte in HTTP Status of Autocall Statistics has been changed to MBytes.



RF View

1. [DM Summary]

Fixed an error where the Total Message Count in the DM Summary View was not displayed in XCAL-Solo.

Function

XCAL-Harmonizer 3.00.066

Release Date : 2023-11-27

Autocall

1. [Call Status Info]

Added Call Status Info KPI to Call Status Info.

Call Status Info.							
Mobile Status		Call Statistics		Call Result History			Filter
Model	SCG02	Scenario Name	SMS	No.	Result	Setup	Type
Operator	LG U+ LGU+	Call Type	SMS	1	Success	-	Send & Receive
Current Network	LTE	Sub Type	S&R	2	Success	-	Send & Receive
MIN	01024721161	Total Count	5/10 (50.0%)	3	Success	-	Send & Receive
Data State	CONNECTED	Success Count	4 (100.0%)	4	Success	-	Send & Receive
DM Port	disconnected	Fail Count	0 (0.0%)				
Mobile SD Space	85337.08 MB	Time(I/S/T.S/T)	0 / 0 / 0 / 0				
Solo SD Space	-	Progress	0%				
Mobile Battery	98%	Call Result.	Success				
Battery Temperature	27.70 °C	Call Status Info					
Solo Battery	-	SMS/MMS Type	Send & Receive				
GPS	37.39 / 127.12	Message	tttttt				
Object	Outbound	Result					
Log Data Info							
Log File Name	04140.drm	010:					
Log File Size	1.9 MByte						
Avg.RSRP	-91.42						
Avg.RSRQ	-11.72						

RF View

Function

XCAL-Mobile/Solo 5.00.183

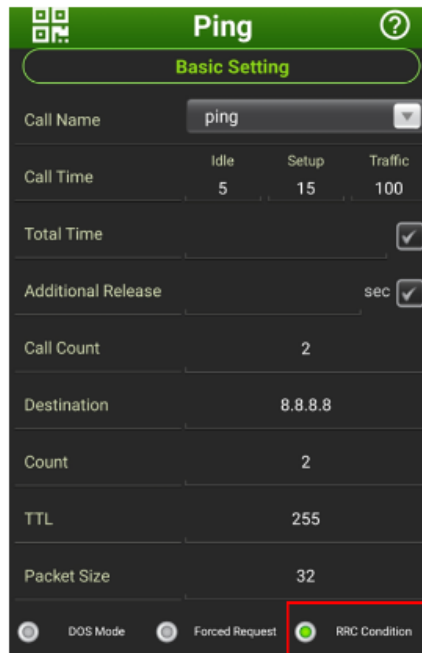
Release Date : 2023-11-13

JIRA Resolved

1. [XM-951]
Difference between Webview and Chromium.
2. [XM-962]
(Rakuten) XCAL-Mobile 5.00.178 GPS not logged properly in some devices. (Sony, Xiaomi..)
3. [XM-965]
Galaxy S21 Ultra cannot be connected to Solo2.
4. [XM-967]
Dial ADB Script for the RCS Link has been modified.
5. [XM-968]
Solo2 cannot be recognized PC.
6. [XM-980]
[Cellnex] XCAL-Solo no App found.
7. [XM-981]
[Critical][Cellnex][XCAL-Solo] Cannot connect solo with app v5.00.179.

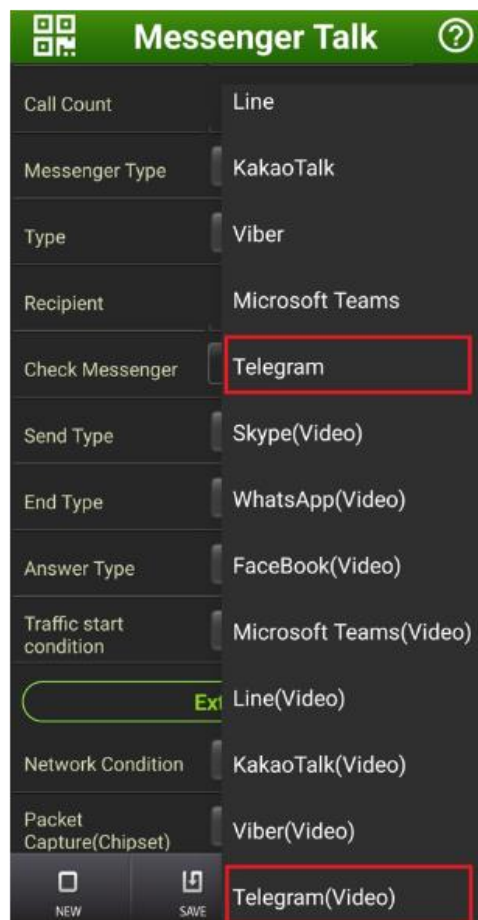
Autocall

1. [PING]
Added RRC Condition option for Ping autocall. When SL-DCCH messages update then ping request command will send.



2. [Telegram]

If you have a Autocall : Telegram license, Messenger Type : Telegram, Telegram(Video) has been added as an option to select/use in Messenger Talk.



RF View

Function

1. Fixed an error where IMEI and IMSI could not be read starting from Android 13. XCAL-Mobile is applied starting from new kernel development device.

XCAL-Harmonizer 3.00.064

Release Date : 2023-11-13

Autocall

1. Fixed an error where some buttons didn't work in Scenario Setting.

RF View

1. Fixed a bug where Cell information was not displayed in Cell Measurement.
2. Fixed an error where the Signaling message was not shown.

Function

1. A loading pop-up has been added when moving menus in Monitoring and Inbuilding.
2. Fixed an error where Retry didn't work when loading in Save/Load All Setting.

Known Issue

- 1. File Size 2G or higher, correcting intermittent DM port loss during split.**
- 2. Change XCAL-Solo H/W mNoPacket Conditions.**

XCAL-Mobile/Solo 5.00.182

Release Date : 2023-10-25

JIRA Resolved

1. [XM-978]
fixed GPS logging problem.

Autocall

RF View

Function

XCAL-Harmonizer 3.00.063

Release Date : 2023-10-25

XCAL-Mobile/Solo 5.00.179

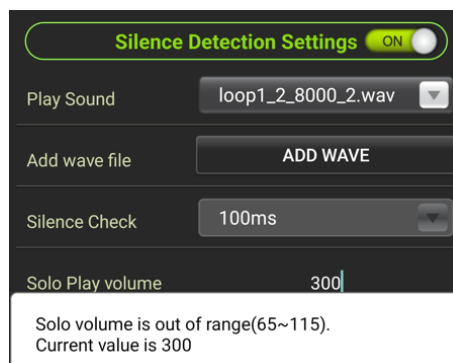
Release Date : 2023-10-10

JIRA Resolved

2. [XM-923]
[Youtube]AutoCall cannot be executed using Chromium on Youtube.
3. [XM-929]
S23-Missing time-out for loading animation in Band Lock.
4. [XM-952]
Edit and Copy in Multi-call scenario

Autocall

1. [Neflix]
Updated to supported Neflix version 4.16.0 -> 8.81.0.
2. [Silence Detection Setting]
Change the range of Solo Play volume (65~115) .



RF View

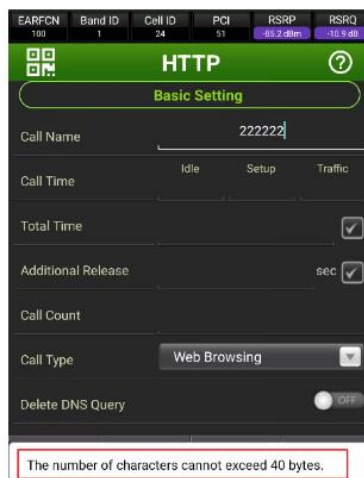
1. [External DM View]
Android RF View -> Voice state UI notation change.

Function

1. [File Name]

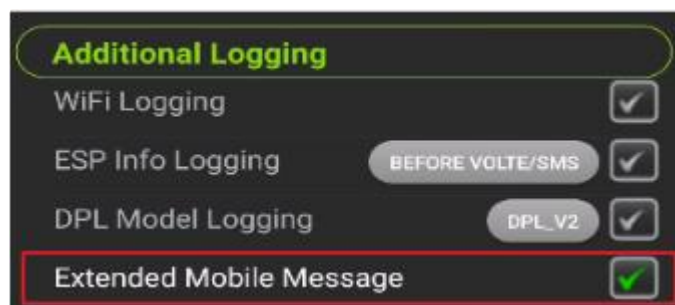
The number of characters for the following input options that can affect log file naming has been limited to 40.

- Scenario Name, BEFORE TEST, AFTER TEST



2. [Additional Logging]

Setting- Log Data – Extended Mobile Message option has been added. This option is enabled when an F3 Messages license exists and determines whether 0x1FFB(Extended Mobile Message) is logged.



XCAL-Harmonizer 3.00.061

Release Date : 2023-10-10

XCAL-Mobile/Solo 5.00.178

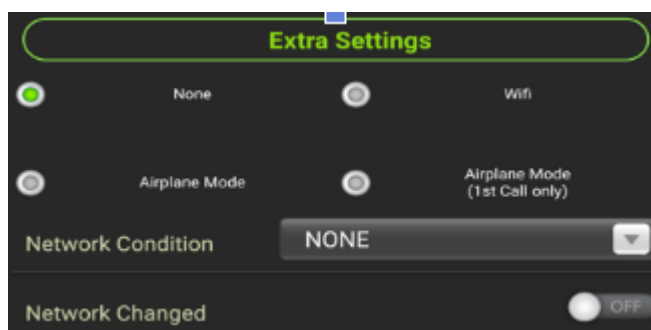
Release Date : 2023-09-18

JIRA Resolved

1. [XM-936]
[Auto Speed Test] Server addition procedure
2. [XM-937]
【Inbuilding】 - Urgent – Image plan by floor
3. [XM-943]
Xperia A101SO - Mobile Error- DM Route.
4. [XM-948]
(Accuver Shanghai) Cannot test HTTP, Version 176.

Autocall

1. [Auto Speed Test]
Target server information can now be entered manually even if it is not in the server list.
2. [Muilt-RAB]
Fixed App Crash when saving Multi-RAB scenario.
3. [Solo-MOS]
Noise elimination while recording MOS on POLQA Version 16.0.
4. [Solo-MOS]
FTP enabled "Network Condition : LTE" only, but deleted this condition and changed it so that the Network Changed menu can be seen in all cases.



RF View

1. [External DM View]

Fixed an issue that prevented Solo Polka version name 13.0 from being updated.

Function

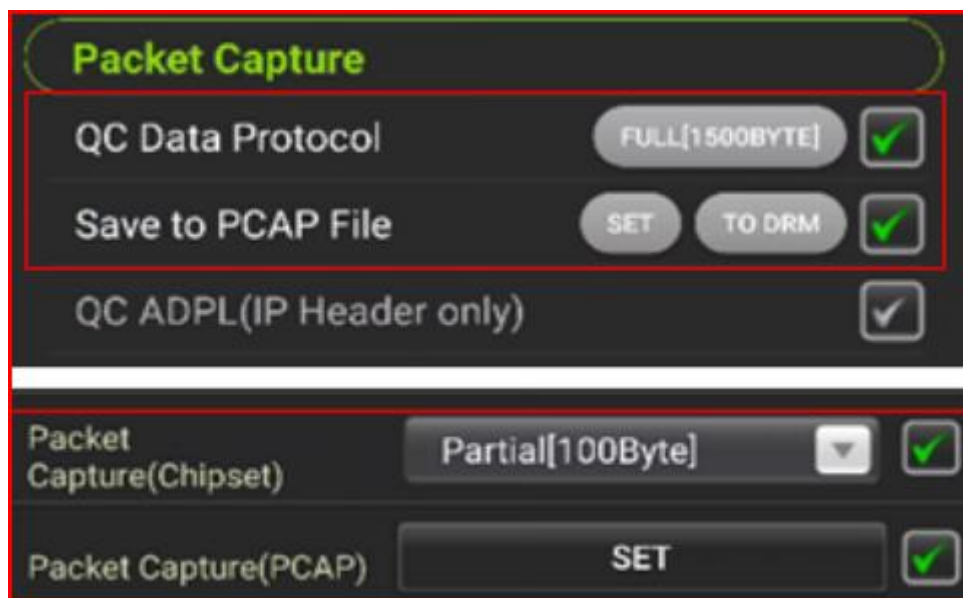
1. [Debug message]

The Extended Debug Message (0x1FEB) which does not have a distinct SIM Index has been changed to be logged only in the SIM1 log file.

2. [Packet Capture]

The logic preventing duplicate use of Packet Capture (Chipset) - 0x11EB and Packet Capture (PCAP/VPN - TO DRM) - 0xDFE1/0xDFE2 options has been deleted.

Using both options will logging both 0x11EB and 0xDFE1/0xDFE2 in the log file.



3. [NV Lock]

Improved the phenomenon of no response or delay in Qualcomm NV Lock.

XCAL-Harmonizer 3.00.060

Release Date : 2023-09-18

Autocall

1. [MtoM Scenario]

In Voice/VoLTE/PS Video, the Dial Number input field has been modified to be disabled when MtoM type is set.

Function

1. [Setting]

When selecting 'ESP information Logging: the Before VoLTE/SMS' option, the issue where airplane mode did not work properly before starting Autocall has been fixed.

XCAL-Mobile/Solo 5.00.175

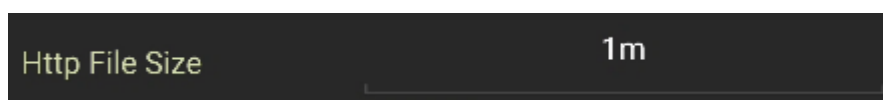
Release Date : 2023-09-05

JIRA Resolved

1. [XM-923]
INVITE~180Ringing or INVITE~200OK values are missing sometimes
2. [XM-926]
Question about the difference in ATT value between MO3 and Solo3
3. [XM-929]
S23 - Missing time-out for loading animation in Band Lock
4. [XM-930]
DSDS KPIs/Autocall Development using Logcat (SconeCbrs)
5. [XM-933]
[XM] lack of Inbuilding points

Autocall

1. [HTTP]
In HTTP UL type, when only a number is entered in the File Size and the scenario is saved, the unit has been changed to automatically enter m.



Function

1. [SDSA]
Fixed an error where the SDSA report was not generated.
2. [Iperf]
Changed Ignore Call Drop (for Dual SIM) feature in AutoCall Type : Iperf (Use Iperf Daemon only)
3. [Inbuilding]
fixed inbuilding - Motion tracking available

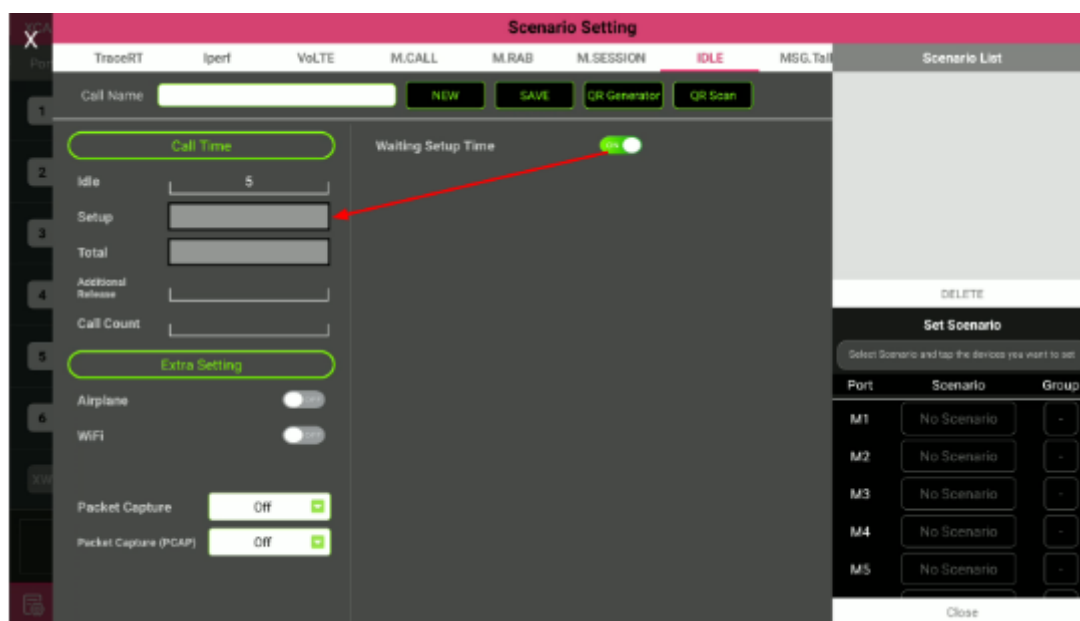
XCAL-Harmonizer 3.00.058

Release Date : 2023-09-05

Autocall

1. [Idle]

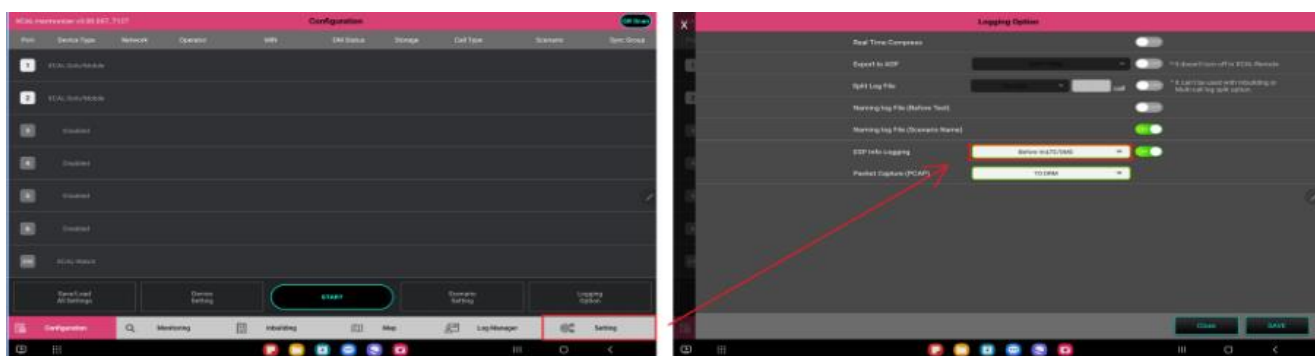
Activated Setup time item when Waiting Setup Time option turns on



Function

1. [Setting]

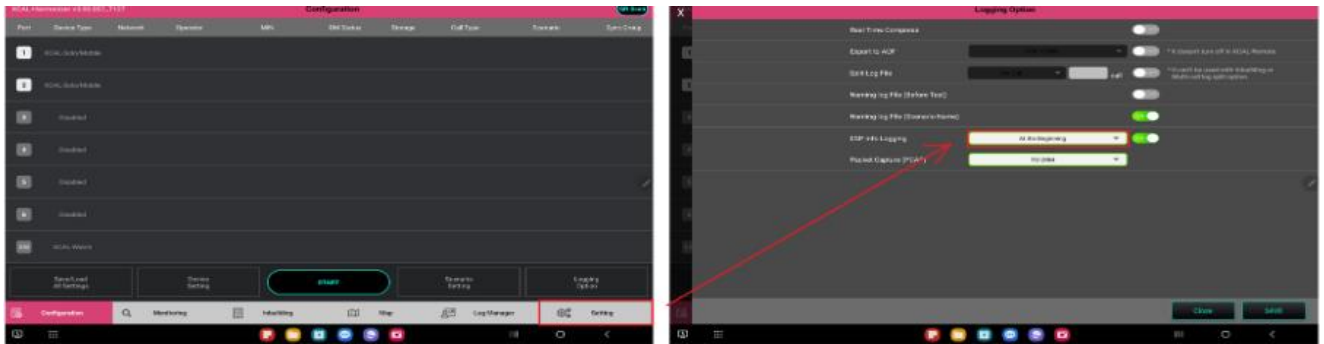
When selecting 'ESP information Logging: the Before VoLTE/SMS' option, the issue where airplane mode did not work properly before starting Autocall has been fixed.



2. [Setting]

When selecting the 'ESP information logging: at the beginning' option, the issue where ESP information logging was omitted has been fixed.

Proprietary & Confidential



XCAL-Mobile/Solo 5.00.173

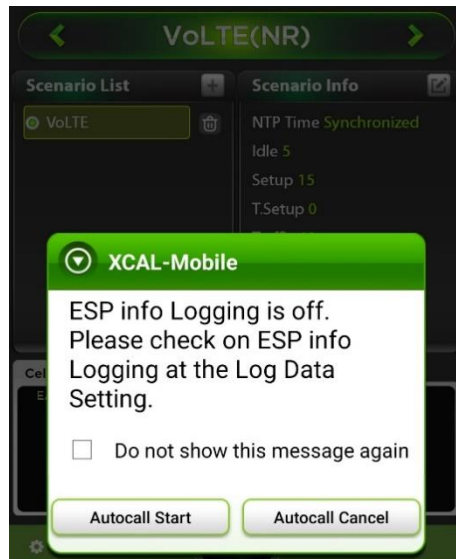
Release Date : 2023-08-21

JIRA Resolved

1. [XM-924]
MOS Score is not displayed.
2. [XM-923]
AutoCall cannot be executed using Chromium on Youtube
3. [XM-921]
SoloII charging issue with Galaxy M23
4. [XM-917]
[XCAL-Mobile v5] bout the name when installed in UE
5. [XM-913]
] SoloII Battery LED status
6. [XM-912]
GPS is Locked but Number of Satellite is 0
7. [XM-911]
Question about the difference in GPS information acquisition method between Ver4.xx and Ver5.xx (230726)
8. [XM-839]
System Transition Drop (For 5G NR)

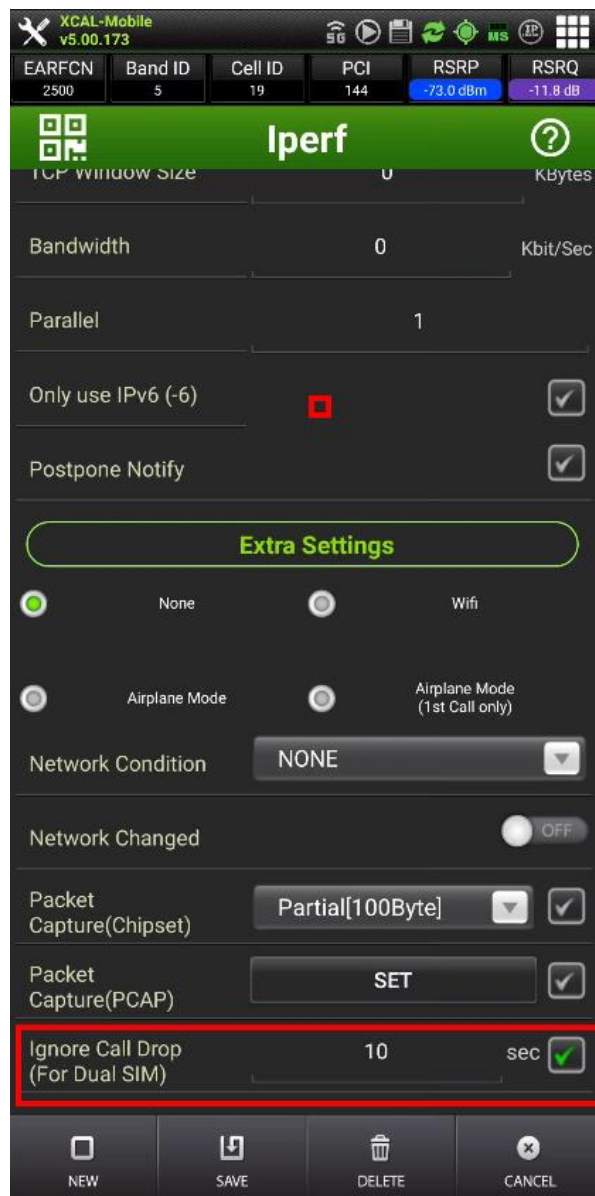
Autocall

1. [VoLTE/PS Video]
When VoLTE, PS Video Autocall is executed on the 'Call Type: MtoM ORG' side, if the ESP info Logging option is turned off on the 'Call Type: MtoM TER' side, a warning pop-up occurs.



2. [Iperf Daemon]

Added Ignore Call Drop feature in AutoCall Type : Iperf (Daemon)

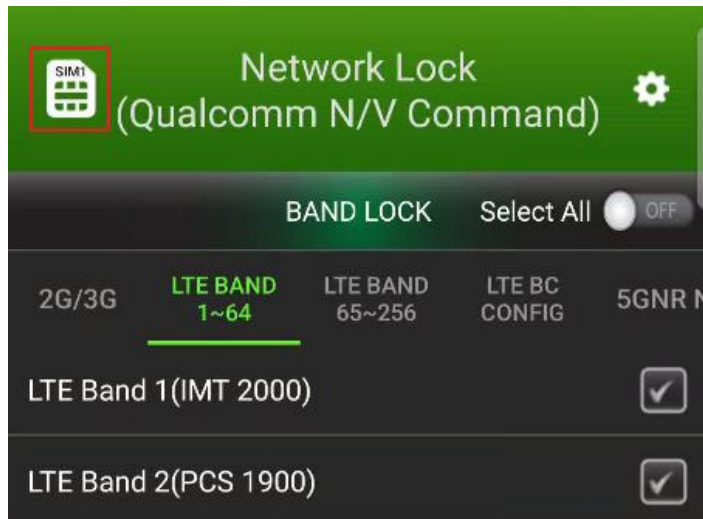


3. [VoLTE, PS Video, FTP] Renamed 'Extra Setting : System Transition Drop' and developed unified behavior



Function

1. [Qualcomm N/V Lock – Dual SIM]
Supports Qualcomm N/V Lock on Dual SIM devices.
Click the icon to change the Target SIM.



2. [Log File Name]

The input value size of the Scenario Name and BEFORE TEST/AFTER TEST options constituting the Log File Name field is limited to 40 bytes.

XCAL-Harmonizer 3.00.056

Release Date : 2023-08-23

Autocall

1. [Call Status]

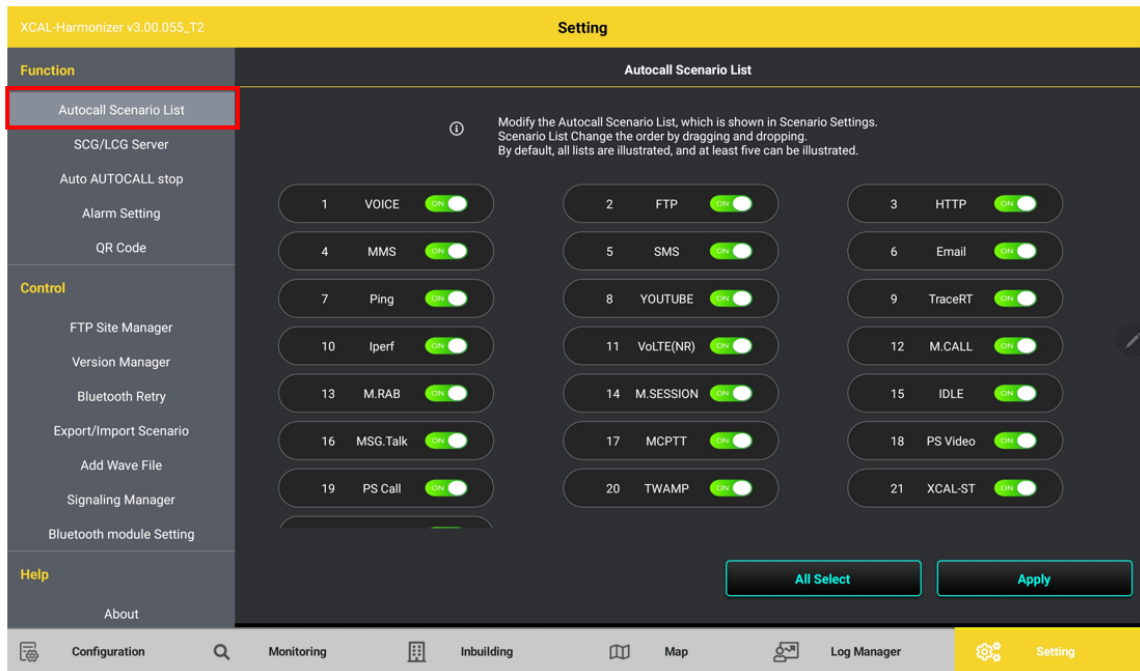
The problem of Call Status information being delayed for more than 3 to 4 seconds has been primarily improved.

Function

1. [Setting] → [Function] → [Autocall Scenario List]

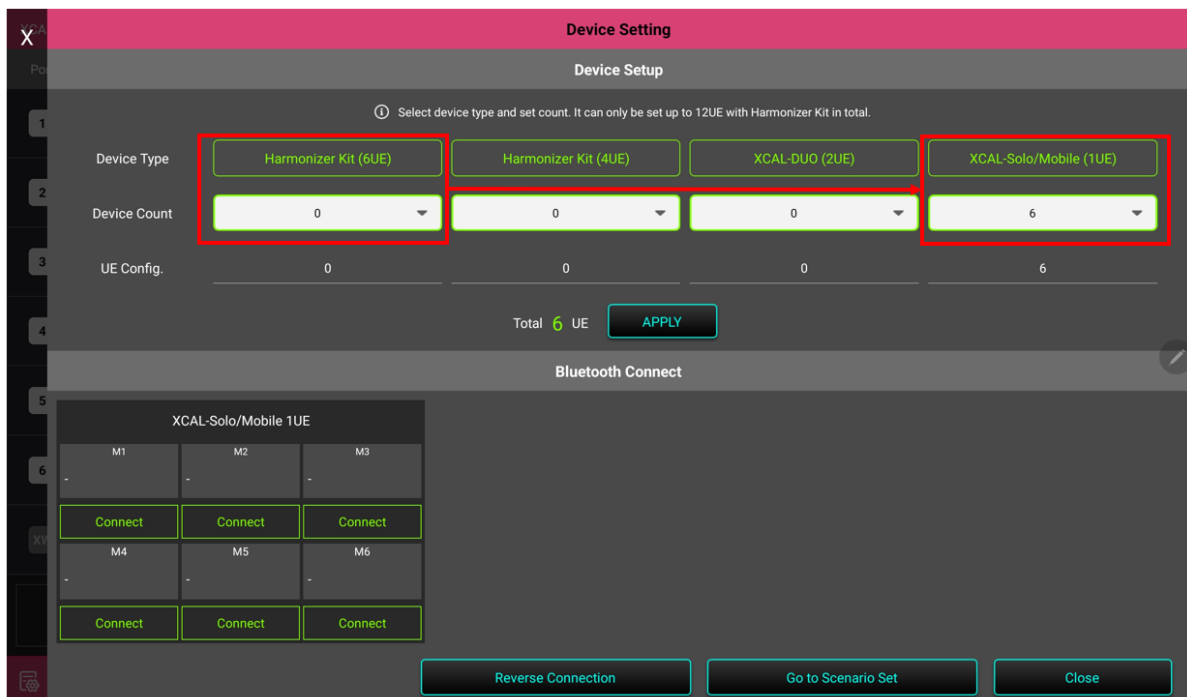
Added the 'Autocall Scenario List items'

Modify the Autocall Scenario List, Which is shown in Scenario Settings.
Scenario List Change the order by dragging and dropping.



2. [Configuration] → [DeviceSetting]

Changed Default Settings 'Harmonizer Kit(6UE)' > 'XCAL-Solo/Mobile (1UE)'



3. [Packet Capture - PCAP]

Added PCAP function to Scenario Setting.

The type of file in which PCAP is saved can be changed in the Logging option.

Scenario Setting

Voice
FTP
HTTP
MMS
SMS
Email
Ping
Youtube
Traffic

Call Name

NEW SAVE QR Generator QR Scan

Idle

Setup

T.Setup

Traffic

Total

Additional Release

Success

Call Count

Extra Setting

Airplane

WiFi

Network condition NONE

System Transition Drop(For LTE)

Packet Capture Off

Packet Capture (PCAP) On

Call Type Download

Protocol FTP

FTP Server Select

Passive mode

Port 21

Address

User ID

Password

Server path

File name

Check FTP Server Check

Multi-Thread Session 1

Pending Setting

FTP NT Setting

Scenario List

DELETE

Set Scenario

Select Scenario and tap the devices you want to set up.

Port	Scenario	Group
M1	No Scenario	-
M2	No Scenario	-
M3	No Scenario	-
M4	No Scenario	-
M5	No Scenario	-
M6	No Scenario	-

Close

Logging Option

Real Time Compress

Export to AOF AOF + DRM * It doesn't turn off in XCAL-Remote

Split Log File Per Call call * It can't be used with Inbuilding or Multi-call log split option.

Naming log File (Before Test)

Naming log File (Scenario Name)

ESP Info Logging Before VoLTE/SMS

Packet Capture (PCAP) TO DRM

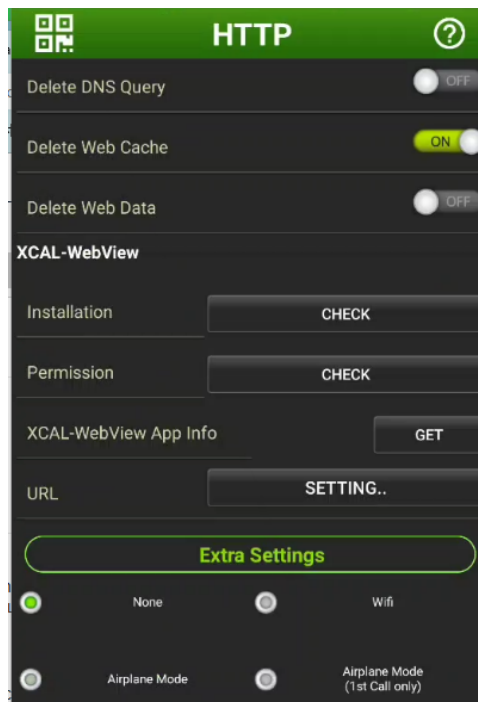
Close
SAVE

XCAL-Mobile/Solo 5.00.171

Release Date : 2023-08-07

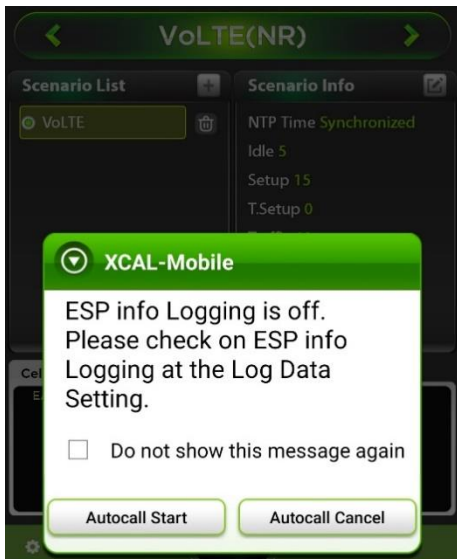
JIRA Resolved

1. [XM-909]
[Main Screen2] need Default button for RF Setting
2. [XM-897]
Airplane Mode(Autocall) is not visible in the customer's case.
- Fix "Extra settings" to be visible in Autocall



Autocall

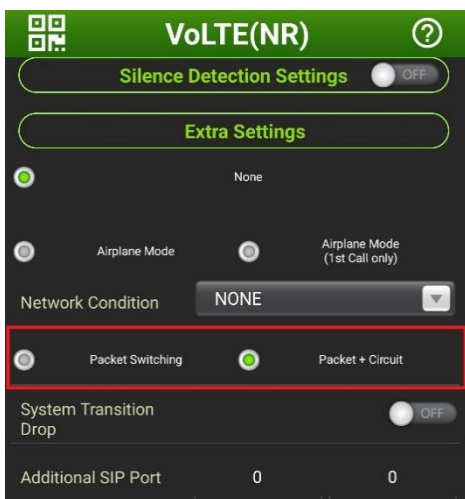
1. [VoLTE/PS Video]
When VoLTE, PS Video Autocall is executed on the 'Call Type: MtoM ORG' side, if the ESP info Logging option is turned off on the 'Call Type: MtoM TER' side, a warning pop-up occurs.



2. [VoLTE]

The Service Type option has changed to:

- Packet Switching: Only phone connections using packet networks are considered traffic.
- Packet + Circuit: All phone connections using packet networks and circuit networks are judged as traffic (including CSFB).



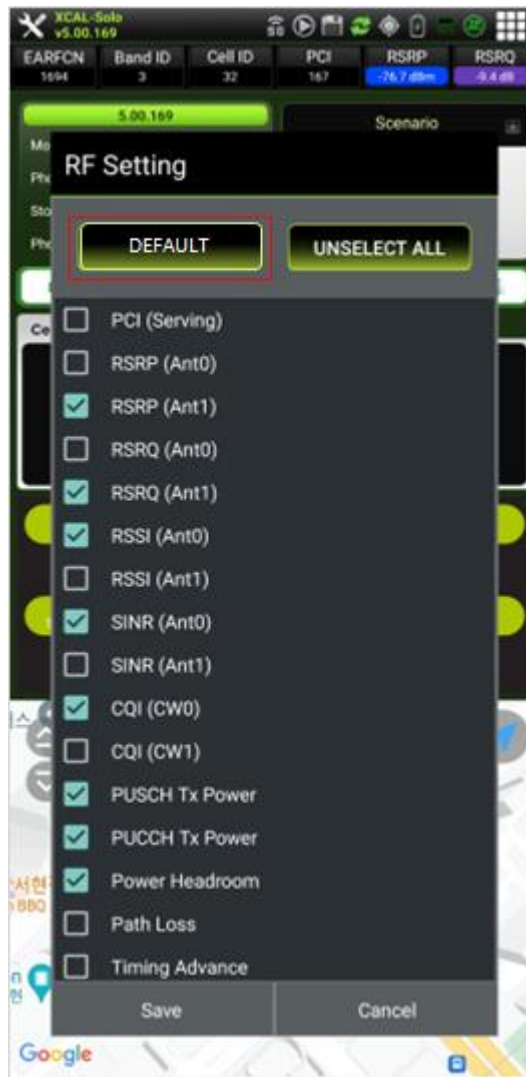
RF View

1. [Main Screen2 – RF Setting]

The RF Setting function of Main Screen2 has been changed.

The SELECT ALL button has been changed to DEFAULT.

Click the DEFAULT button to change to the default option.



Function

1. [Qualcomm Log Mask]

Updated Qualcomm new Log Mask.

- 0xB969 : NR5G ML1 Searcher FW Cell Meas Request
- 0xB9C3 : NR5G ML1 SNS MITIGATION INFO
- 0xB835 : NR5G RRC Band Group Info
- 0xB83D : NR5G RRC Channel Info
- 0xB83F : NR5G RRC LUT Table Info

Delete Qualcomm Log Mask

- 0xB96A : NR5G ML1 Searcher FW Cell Meas Confirmation
- 0xB066 : LTE MAC Buffer Status

2. [Qualcomm Log Mask – Event Report]

Changed '2685: EVENT_CM_MSIM_INFO_CHG' to default value.

3. [Qualcomm – Log code]

0xA0AA : Changed Qualcomm DM SUBSYS DISPATCH Response not to be logged in SIM2 log file.

That log code has been deleted because it only collects information about SIM1.

4. [Master/Slave – Harmonizer mode]

The logic to check whether XCAL-Webview, XCAL-Polqa, and XCAL-VQML apps are installed and permission when entering Harmonizer mode has been deleted.

XCAL-Harmonizer now checks in real time as you apply the scenario.

XCAL-Harmonizer 3.00.055

Release Date : 2023-08-07

Autocall

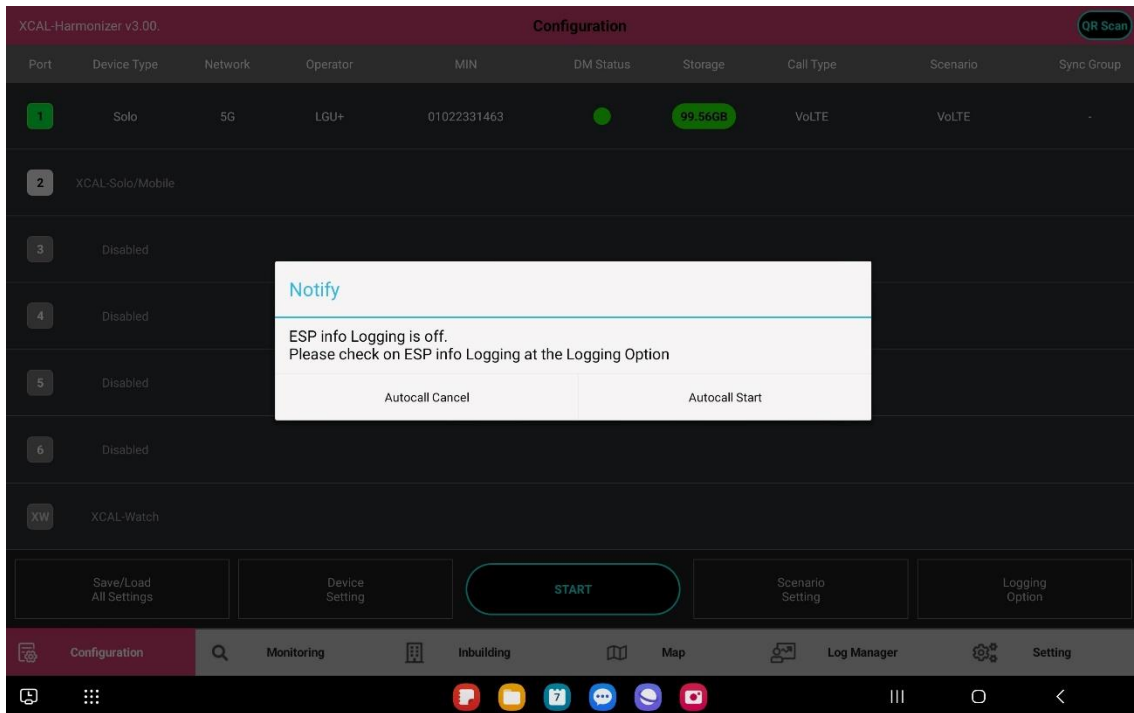
1. [Monitoring – Call Status]

Improved the problem that Call Status is delayed when connecting 6 ports.

2. [VoLTE/PS Video]

If VoLTE or PS Video Autocall is executed while ESP Info Logging of Logging Option is turned off, a warning pop-up occurs.

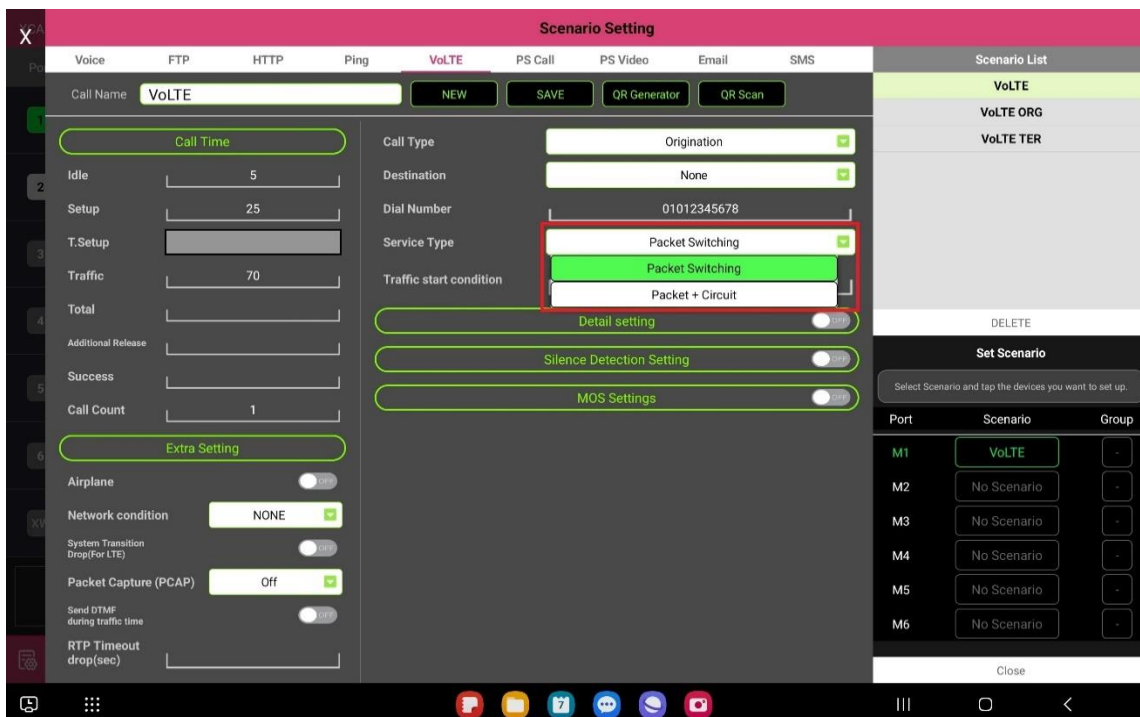
(To parse SIP Packets, enable ESP Info Logging option.)



3. [VoLTE]

The Service Type option has changed to:

- Packet Switching: Only phone connections using packet networks are considered traffic.
- Packet + Circuit: All phone connections using packet networks and circuit networks are judged as traffic (including CSFB).



XCAL-Mobile/Solo 5.00.169

Release Date : 2023-07-24

JIRA Resolved

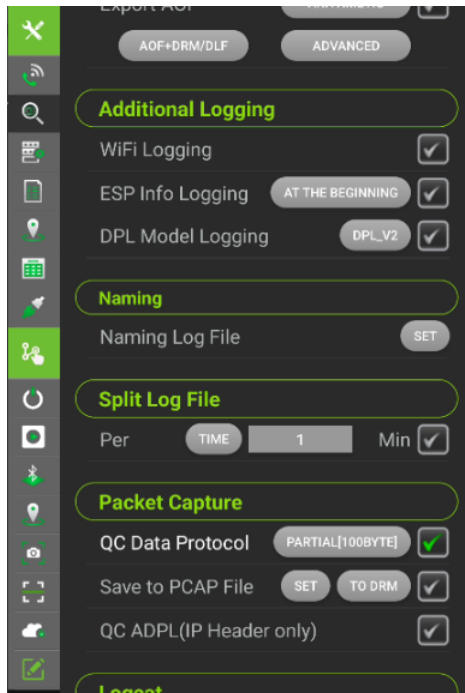
1. [XM-886]
[Map] direction function
2. [XM-889]
Location information cannot be acquired accurately
3. [XM-894]
Origination MOS becomes 1 when Link to Link Call is executed (230707)
4. [XM-900]
Difference between ETC for Customer type
5. [XM-903]
about install XCAL-Daemon

Autocall

RF View

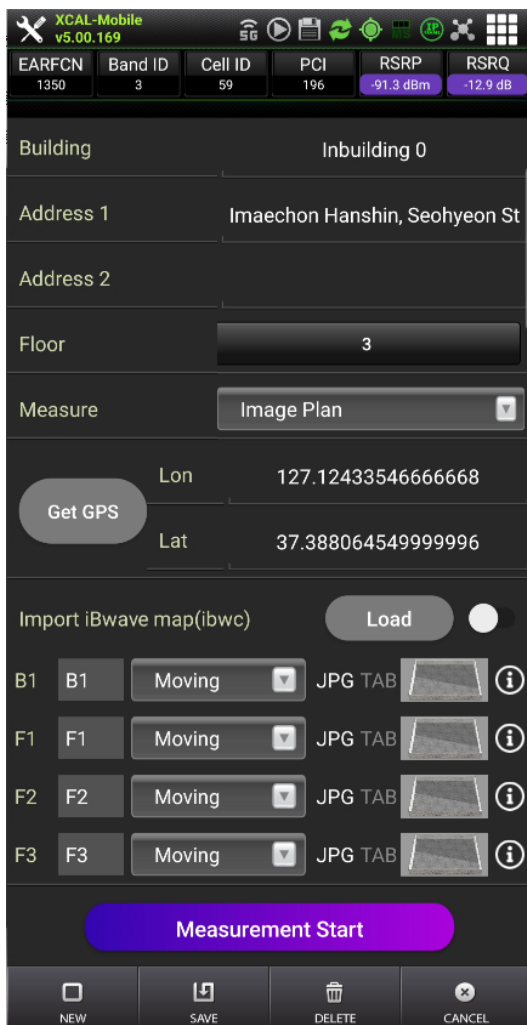
Function

1. Fix Logdata – Packet capture – QC Data Protocol(IP Frame) : can change Partial or Full



2. Inbuilding UI has changed

Measure type changed 3types, Image Plan, Real time map, Image real location



3. [Email – Send report]

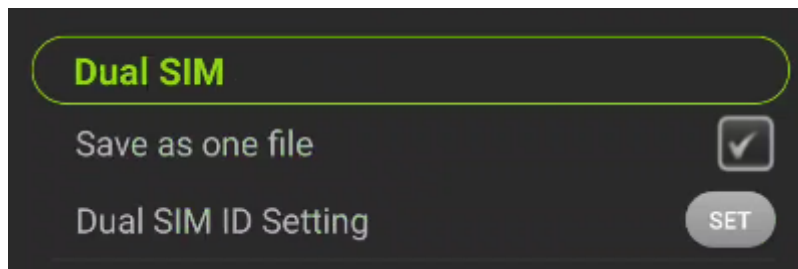
The email account receiving the exception file has been normalized.
If an app crash occurs, you can report it by clicking "Send Report".

4. [Dual SIM]

Changed the configuration of the Dual SIM option.

In Dual SIM Devices, DRM files are created separately for each SIM ID.

- Save as one file: Creates one DRM file.
- Dual SIM ID Setting : Change the SIM ID displayed in DSDS View.

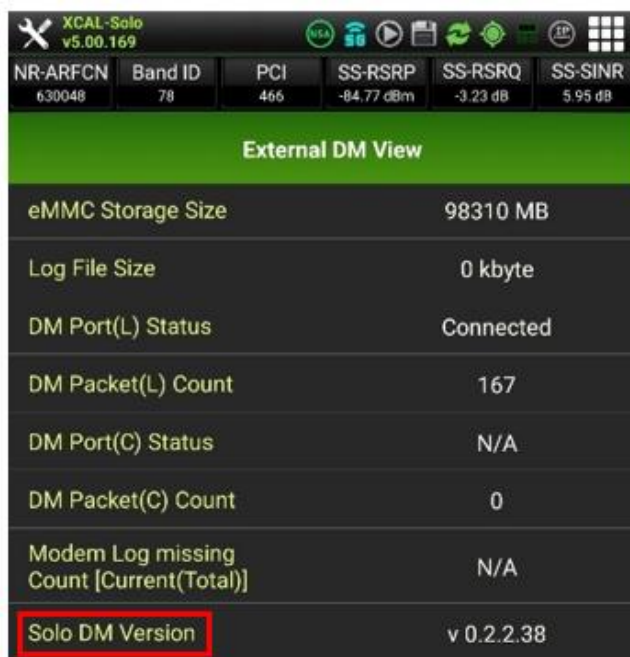


5. XCAL-Solo III H/W, the top Battery Sttus ICON of the XACL-Solo has been deleted.

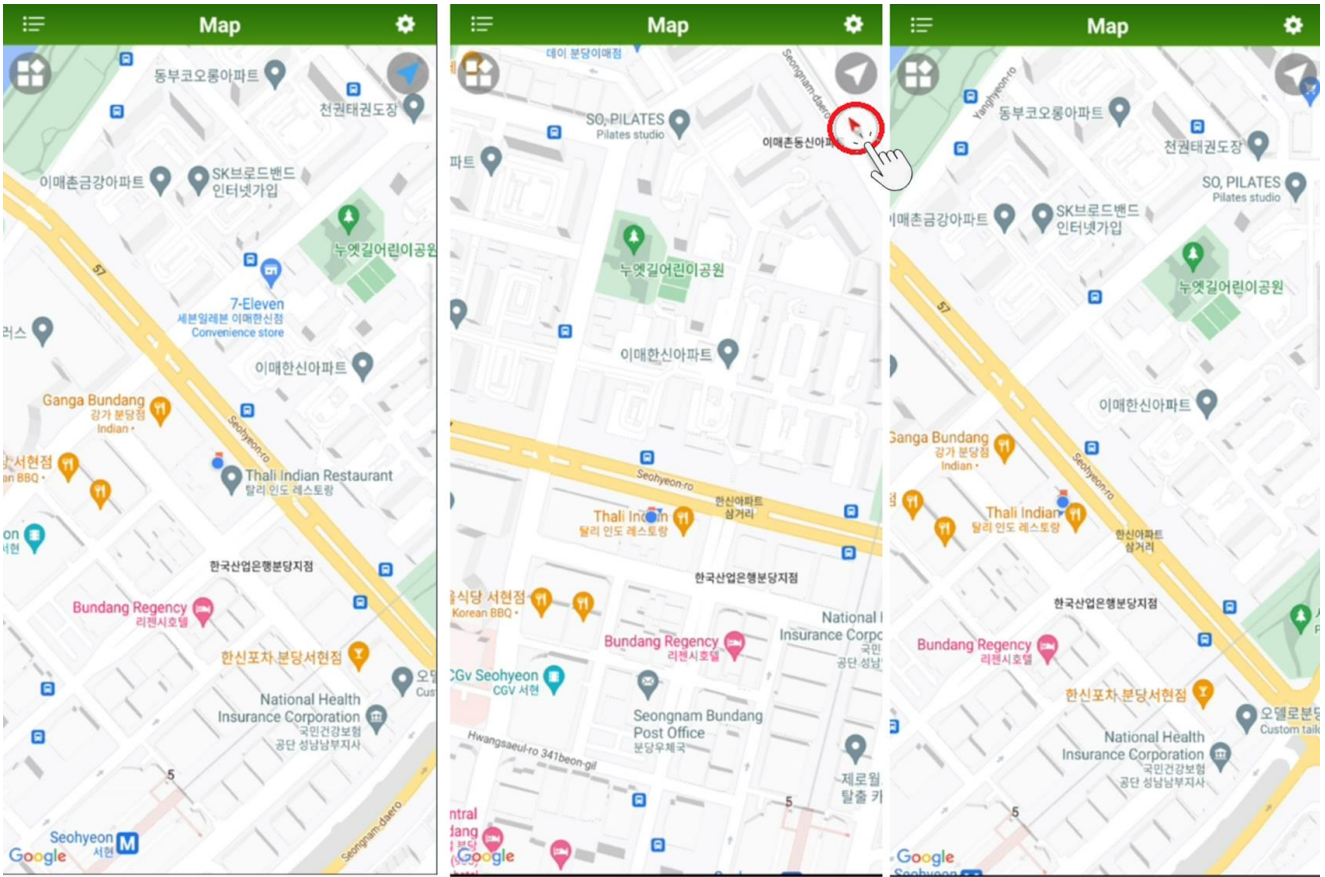
(Delete the corresponding ICON because the level of the PD auxiliary battery and PD charger is unknown.)



6. (XCAL-Solo) External DM View → Solo Version Name changed to Solo DM Version.



7. Add compass function



XCAL-Mobile/Solo 5.00.167

Release Date : 2023-07-10

JIRA Resolved

1. [XM-787]
How to enable Android Packet Capture for AutoCall
2. [XM-852]
Adding Common-Q Message Count Status
3. [XM-866]
(MTK chipset)
4. [XM-867]
Solo, causing DSDS Device to have dead modem
5. [XM-874]
[Roll out] Pass Condition by Tech
6. [XM-875]
[Roll out] Autocall is stuck after a few Stop condition
7. [XM-877]
Autocall Release Time, Idle Time questions
8. [XM-885]
NO Bandwidth function- XCAL-Mobile_166.APK Version

Autocall

1. [Additional Release]
Adding 'Additional Release' item of all call types.

- Default : uncheck
- Range : 1 ~ 10,000
- Additional Release time : Release End ~ Call End extension

Index	BM	Time	Code	Message	Detail
1		2023-07-04 11:24:21.65300	Voice Call	Idle	Idle Start - Origination : 1
2		2023-07-04 11:24:26.64600	Voice Call	Setup	Setup Start
3		2023-07-04 11:24:26.69399	Voice Call	Call Setup Status	Call Setup Status - Android Send Comman
4		2023-07-04 11:24:26.69500	Voice Call	Call Start	Call Start Org : 1
5		2023-07-04 11:24:31.80699	Voice Call	Call Setup Status	Call Setup Status - Android Send Comman
6		2023-07-04 11:24:36.93600	Voice Call	Call Setup Status	Call Setup Status - Android Send Comman
7		2023-07-04 11:24:44.50199	Voice Call	Call Connected	Call Connected : VTS
8		2023-07-04 11:24:44.50199	Voice Call	Traffic	Traffic Start
9		2023-07-04 11:24:54.59800	Voice Call	Call Success	Success
10		2023-07-04 11:24:54.60000	Voice Call	Release	Release Start
11		2023-07-04 11:24:58.61399	Voice Call	Call Setup Status	Call Setup Status - Android End Command
12	●	2023-07-04 11:24:59.61199	Voice Call	Release	Release End
13	●	2023-07-04 11:27:03.68000	Voice Call	Call End	Call End

Ex.) Additional Release time : 123 seconds

2. [Ping]

Fixed 1 second of Release Start ~ Release End time.

Proprietary & Confidential

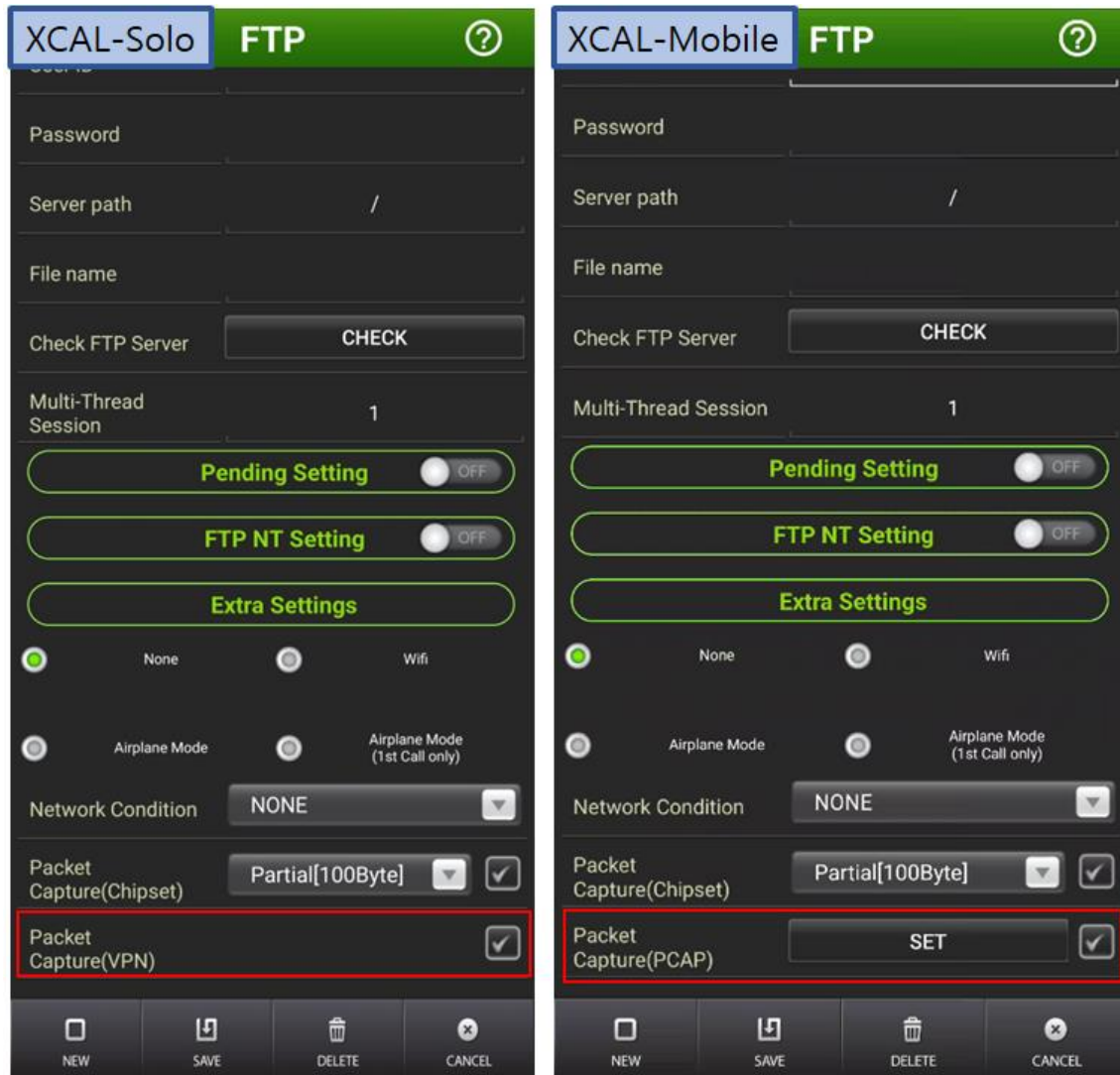
2023-07-03 17:13:47.18878! Ping	Idle	Idle Start - None : 1
2023-07-03 17:13:50.19056! Ping	Setup	Setup Start : 1
2023-07-03 17:13:50.19083! Ping	Call Start	Call Start : 1
2023-07-03 17:13:50.19292! Ping	Traffic	Traffic Start
2023-07-03 17:13:50.19462! Ping & Trace		
2023-07-03 17:13:50.70548! Ping & Trace		
2023-07-03 17:13:52.19656! Ping & Trace		
2023-07-03 17:13:52.64118! Ping & Trace		
2023-07-03 17:13:54.19759! Ping & Trace		
2023-07-03 17:13:54.56015! Ping & Trace		
2023-07-03 17:13:56.19521! Ping & Trace		
2023-07-03 17:13:56.80595! Ping & Trace		
2023-07-03 17:13:58.19510! Ping & Trace		
2023-07-03 17:13:58.72095! Ping & Trace		
2023-07-03 17:14:00.19662! Ping	Success	Success - Single Ping
● 2023-07-03 17:14:00.19853! Ping	Release	Release Start
● 2023-07-03 17:14:01.22581! Ping	Release	Release End
2023-07-03 17:14:02.32576! Ping	Call End	Call End
2023-07-03 17:14:02.43594! Ping	Idle	Idle Start - None : 2
2023-07-03 17:14:05.43313! Ping	Setup	Setup Start : 2
2023-07-03 17:14:05.43502! Ping	Call Start	Call Start : 2
2023-07-03 17:14:05.44007! Ping	Traffic	Traffic Start
2023-07-03 17:14:05.44341! Ping & Trace		
2023-07-03 17:14:06.08155! Ping & Trace		
2023-07-03 17:14:07.45986! Ping & Trace		
2023-07-03 17:14:08.00186! Ping & Trace		
2023-07-03 17:14:09.46748! Ping & Trace		
2023-07-03 17:14:09.91952! Ping & Trace		
2023-07-03 17:14:11.46308! Ping & Trace		
2023-07-03 17:14:11.85205! Ping & Trace		
2023-07-03 17:14:13.44310! Ping & Trace		
2023-07-03 17:14:14.08289! Ping & Trace		
2023-07-03 17:14:15.44266! Ping	Success	Success - Single Ping
● 2023-07-03 17:14:15.44408! Ping	Release	Release Start
● 2023-07-03 17:14:16.46393! Ping	Release	Release End
2023-07-03 17:14:17.56488! Ping	Call End	Call End

3. [Packet Capture – PCAP]

Added PCAP packet capture function in Scenario Setting.

Since the PCAP method of Solo and Mobile is different, the menu below is added.

- XCAL-Solo : Packet Capture(VPN)
- XCAL-Mobile : Packet Capture (PCAP)



The extension to save the packet must be set in the Setting option (TO PCAP/TO DRM). Because Packet is captured from the mobile device, in the case of XCAL-Solo, a PCAP file is created in the mobile internal storage.

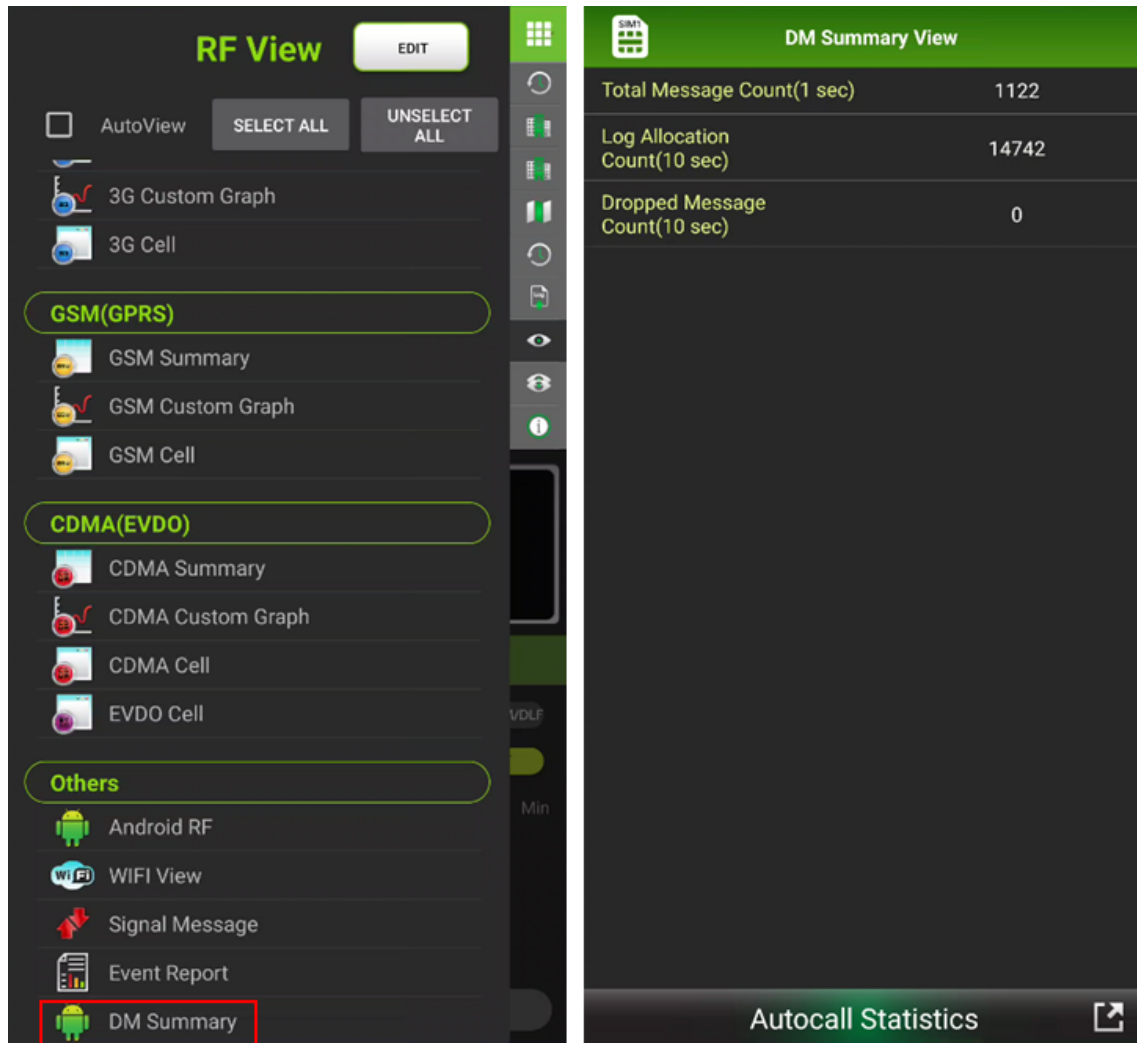
RF View

1. [RF View – DM Summary]

Added DM Summary menu to Others.

This menu shows the KPI of Mobile Status Count.

This menu is only supported by Qualcomm Chipset.



2. [5G NR Summary – AMBR KPI]

Added Session AMBR Downlink and Session AMBR Uplink KPIs to DL/UL of 5G NR Summary.

5G NR Summary (DL)		5G NR Summary (UL)	
DL RB Num(Avg)	4.24	UL RB Num(Avg)	3.14
DL RB Num(Inc0)(Consider)	0.63	UL RB Num(Inc0)(Consider)	2.08
DL MCS0 Index(Avg)	26.000	UL Allocated Slots	604
DL MCS0 Mod. Rate (Q/16/64/256/1024)	0.0/0.0/0.0/100.0/0.0	UL MCS(Avg)	21.00
PDSCH Throughput	0.691 Mbps	UL MCS Mod. Rate (B/Q/16/64/256/1024)	0.0/0.0/0.0/100.0/0.0/0.0
DL MAC Throughput	0.659 Mbps	PUSCH Throughput	1.14 Mbps
DL RLC Throughput	0.076 Mbps	UL MAC Throughput	1.14 Mbps
PDCP Throughput	0.075 Mbps	UL RLC Throughput	0.14 Mbps
PDSCH BLER	4.71 %	UL PDCP Throughput	0.00 Mbps
PDCCH DCI Format 0_0+0_1[UL] (Count/Percentage)	604/87.66%	PUSCH BLER	0.17 %
PDCCH DCI Format 1_1+1_1[DL] (Count/Percentage)	85/12.34%	Session AMBR UpLink	4294 Mbps
Session AMBR DownLink	4294 Mbps	Common	gNB ID bit SET
		NR-ARFCN	129370
		DL Frequency	646.85 MHz

Function

1. [DSDS – DLF Logging]

Fixed an error where XCAL-Solo created a DLF file of SIM2 with 0KB.

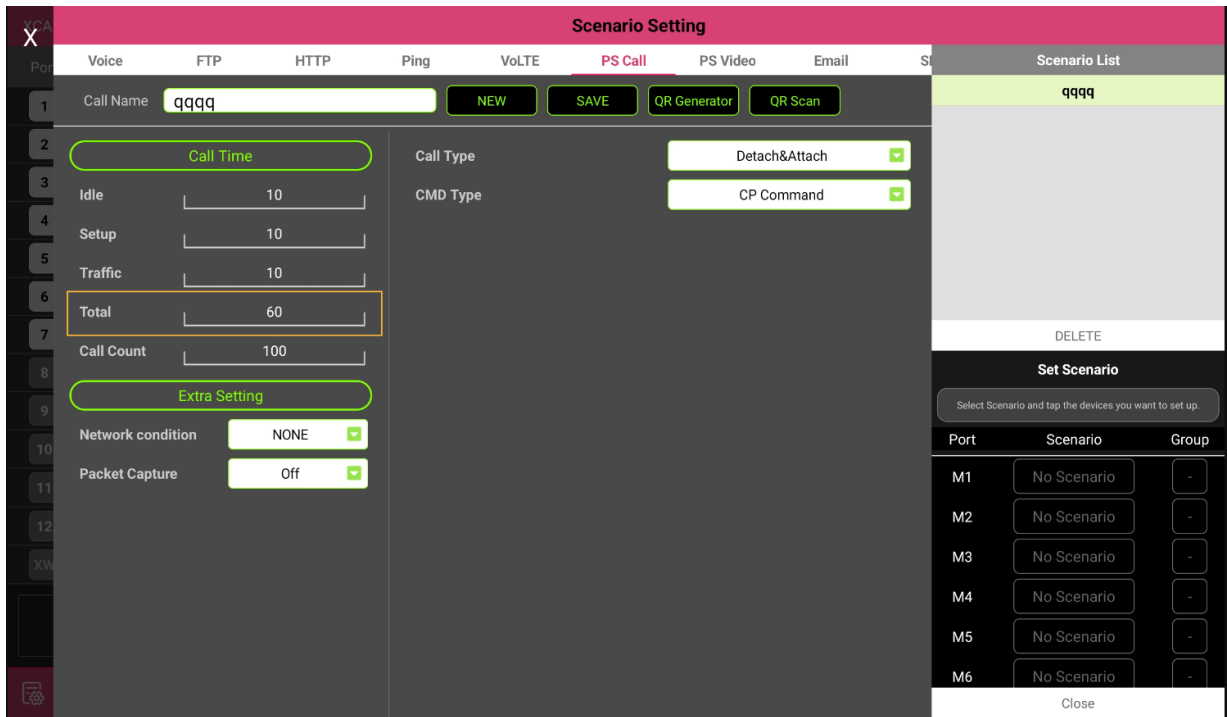
XCAL-Harmonizer 3.00.053

Release Date : 2023-07-10

Autocall

1. [PS Call]

Activated 'Total (time)' item of PS Call type.



Function

1. [Bluetooth module setting]
Fixed an error where the app terminated when connecting the Bluetooth module.
2. [Auto AUTOCALL stop]
Fixed an error where the Auto AUTOCALL stop function does not work.

XCAL-Mobile/Solo 5.00.166

Release Date : 2023-06-26

JIRA Resolved

1. [XM-857] Phenomenon of Data communication during Idle Autocall
2. [XM-854] Problem playing 4K video in Youtube(Fixed Mode) in XCAL Mobile apk version(v5.00.162)
Identified issues caused by changes to the YouTube API and took countermeasures.
3. [XM-522]
[XCAL- Mobile v5.00.076] Issues when postprocessing of XCAL Mobile logs in XCAP

Autocall

1. [MOS Settings]
Added "B.Q judged by the average value" option.
Bad Quality verdicts now behave as follows:

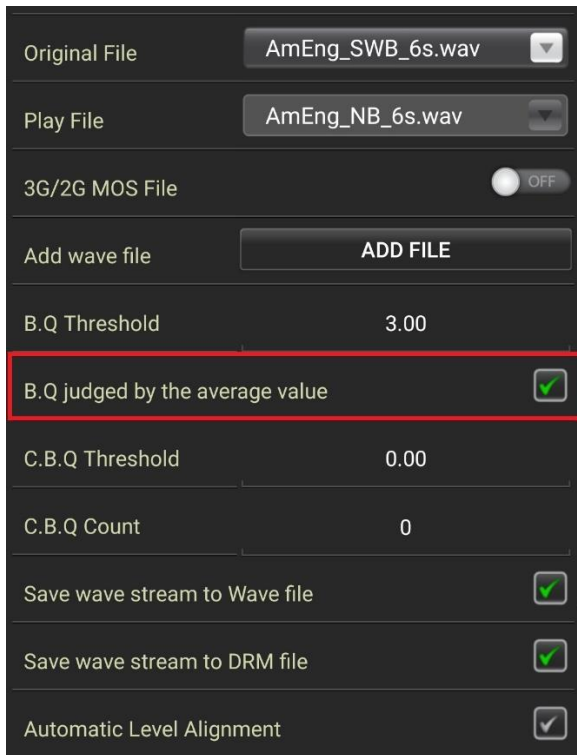
Case1) B.Q judged by the average value: Unchecked.

If a MOS value smaller than the value entered in the B.Q Threshold occurs at least once during a call, it is judged as BQ (Bad Quality).

Case2) B.Q judged by the average value: Checked.

If the average of all MOS values generated during a call is less than the value entered in B.Q Threshold, BQA (Bad Quality at Average value) is judged.

This option applies equally to all Autocalls (Voice, VoLTE, PS Video, etc.) that support MOS Settings.



RF View

1. [RF View - Qualcomm]

Added the following two parameters to LTE Summary - Common.

- Log Allocation Count(10 sec)
- Dropped Message Count(10 sec)

Function

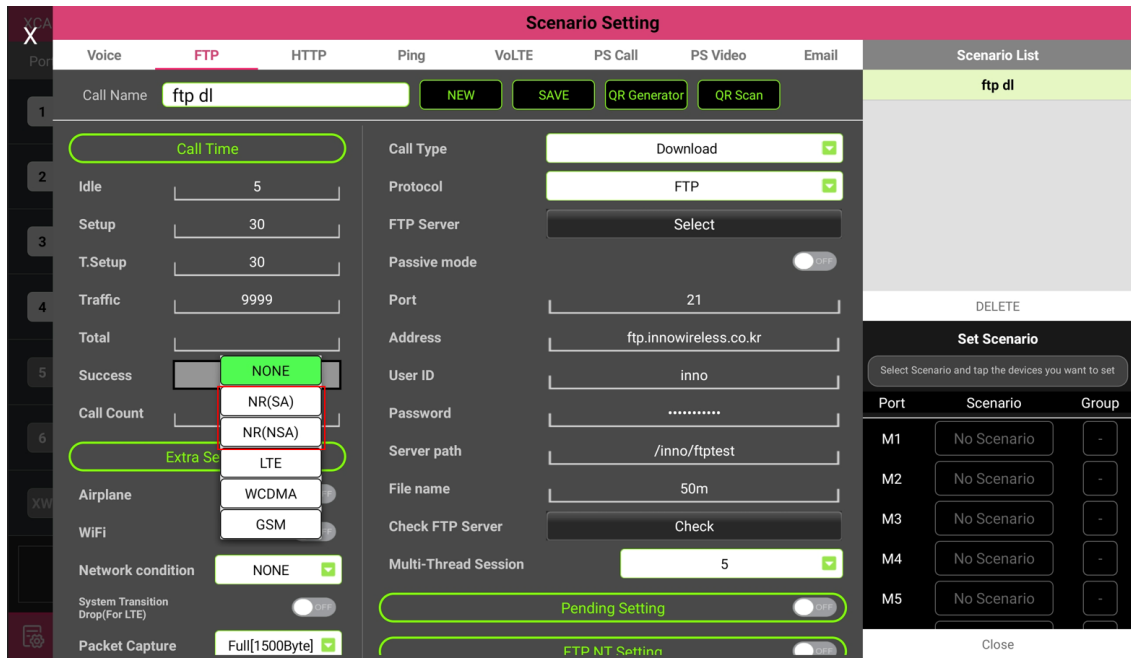
XCAL-Harmonizer 3.00.052

Release Date : 2023-06-26

Autocall

1. [AutoCall Common]

Added NR(SA), NR(NSA) items to Extra Setting > Network Condition.



XCAL-Mobile/Solo 5.00.163

Release Date : 2023-06-13

JIRA Resolved

1. [XM-811] [XCAL-Solo v5.00.154] App unexpected stop while autocall
2. [XM-832] Unable to display SIM1/2 signaling messages simultaneously
3. [XM-838] Sip setup time cannot logged
4. [XM-841] [Urgent] Solo][MTK] Unable to connect Oppo and OnePlus devices with XCAL-Solo

Autocall

RF View

Function

1. [Harmonizer Mode]
Changed to automatically enter Harmonizer Mode when the app is restarted without exiting from Harmonizer Mode to Exit Mode.
2. [AOF][HiSilicon]
Added the below new KPIs on HiSi5G NR_IntraFreq_MeasRslt.

XCAL-Harmonizer 3.00.051

Release Date : 2023-06-13

JIRA Resolved

Function

XCAL-Mobile/Solo 5.00.160

Release Date : 2023-05-30

JIRA Resolved

1. [XM-829] Does XCAL Mobile Lite require a license

Autocall

RF View

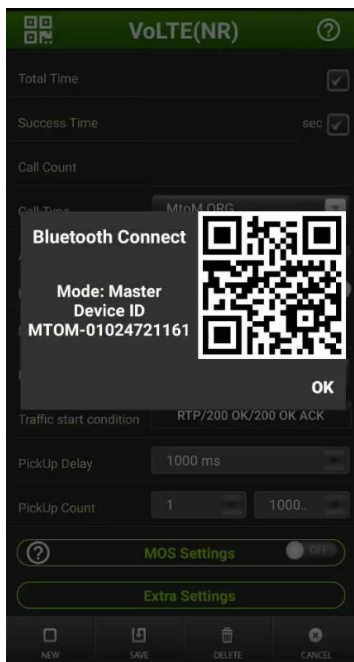
1. [EF74(10) - Log File Setting]
Added 0xEF75 – Log File Setting
2. [DSDS – RF Bar]
Fixed an issue where SIM2's RF graph color was displayed in red in the RF Bar at the top.
The color shown changes according to the range.
3. [LTE Summary View]
A function has been added to display information about Vocoder Mode and Vocoder rate, which was only supported by Qualcomm chipset smartphones, on Samsung chipset smartphones.

The screenshot shows the 'LTE Summary View' interface. At the top, there is a status bar with 'XCAL-Sele vs 00.160' and various system icons. Below that, a header row displays 'EARFCN', 'Band ID', 'Cell ID', 'PCI', 'RSRP', and 'RSRQ' with their respective values: 2850, 7, 139, 196, -96 dBm, and -11 dB. The main content area is a table of LTE parameters:

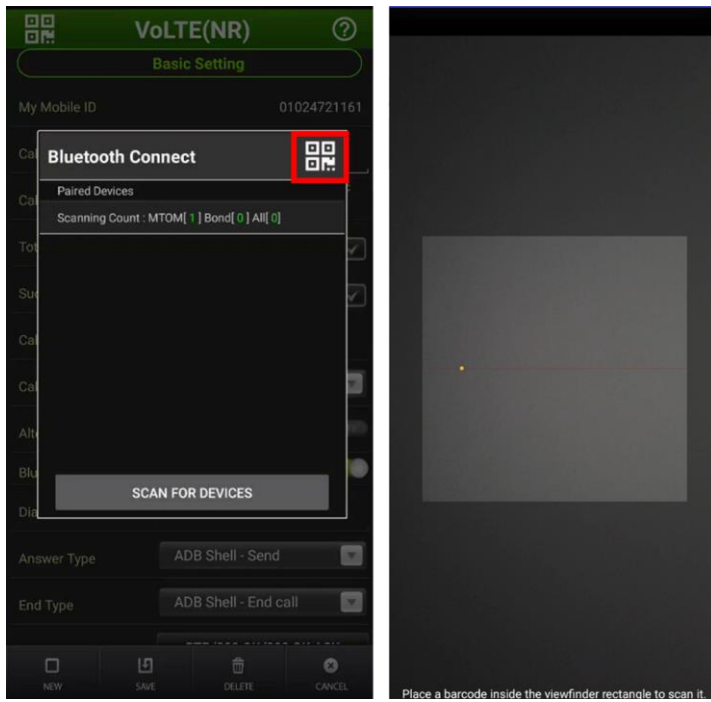
LTE Summary View	
Band Indicator	7
CA Type	NonCA
DL EARFCN	2850
UL EARFCN	20850
DL BW	20 MHz
UL BW	20 MHz
RRC State	
QCI	QCI 1
EMM State	REGISTERED
EMM Service State	-
Transmission Mode	2TX Open-loop SM
RAT	E UTRAN (4G)
MIMO Type	MIMO (2x2)
Vocoder Mode(UL/DL)	AMR_WB/AMR_WB
Vocoder Rate(UL/DL)	12.65/23.85

Function

1. [QR Code] Added Voice (VoLTE) MtoM Bluetooth pairing function using QR Code (MTOM ORG)



(MTOM TER)



XCAL-Harmonizer 3.00.049

Release Date : 2023-05-30

JIRA Resolved

1. [XM-814]
[Urgent] Blind scan fail for harmonizer

RF View

Function

XCAL-Mobile/Solo 5.00.156

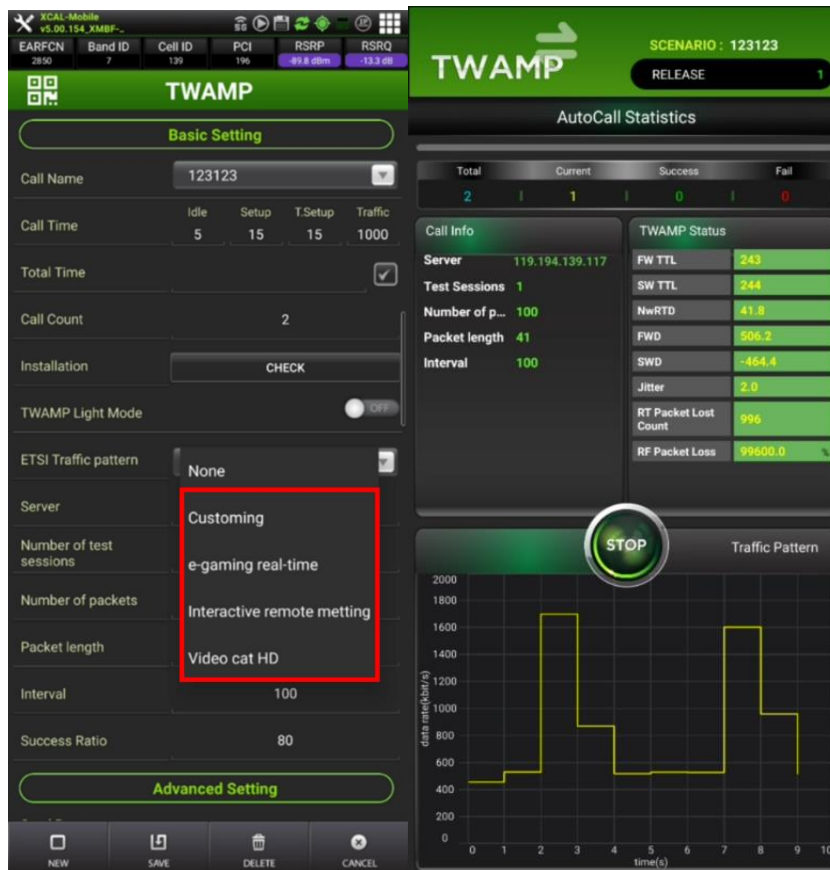
Release Date : 2023-05-15

JIRA Resolved

1. [XM-820]
HiSilicon chip Phone Network Lock Function Crush
2. [XM-799]
XperiaXZ1 - 701SO FLS License
3. [XM-781]
How to Enable Extended Mobile Messages in Solo
4. [XM-784]
v5.00.148 DSDS Interface Issues

Autocall

1. [HTTP Web]
Fixed an issue where the URL was incorrectly fetched when starting the web page.
2. [TWAMP] Adding TWAMP Traffic Pattern



RF View

1. [F3 Message]

Fixed 0xEF75 - 0x1FEB Extended Debug Message to be logged if it have an F3 Message license.
2. [Dual SIM]

Fixed Thp statistics to show SIM2 information in 5G NR Dual Connectivity.
3. [Hisilicon – 5G NR]

Added some KPIs provided by XCAL-Mobile.

The KPIs we added are:

 - NGCI
 - NCI
 - gNB ID
 - Cell ID
 - MCC
 - MNC
 - Duplex Mode

4. [VoLTE(NR)]

Changed Service type of LTE Only to 5G+LTE.

Function

1. [Network Lock]

Fixed App crash issue when entering Network Lock menu on Hisilicon chipset phone.

XCAL-Harmonizer 3.00.045

Release Date : 2023-05-15

JIRA Resolved

1. [XM-814]

[Urgent] Blind scan fail for harmonizer

RF View

Function

1. [Sync Group]

A phenomenon in which waiting sync is maintained during measurement after Sync group is set up

XCAL-Mobile/Solo 5.00.154

Release Date : 2023-05-02

JIRA Resolved

1. [XM-801]
Harmonizer Sync Issue with MOS calls
2. [XM-784]
v5.00.148 DSDS Interface Issues
3. [XM-796]
Critical][XCAL- Mobile v5.00.0148] Save to PCAP file issue
4. [XM-802]
SOLO-151vesion Cannot display the RF messages

Autocall

1. [VoLTE]
Changed Service type of LTE Only to 5G+LTE.
Fixed MOS Sync error on 5G network devices.
2. [PS]
Divided Call Event in detail on PS Call type.
 - Call Start - Detach & Attach
 - Call Start – Attach
3. [FTP]
Fixed SFTP uploading fail case
 - Exception : length=5; index 8

RF View

1. [Android RF View]
Add Serial Number device information to Android RF View

2. [XCAL-Solo]
Fixed the Solo.v5.00.151 Can't display the RF Messages

3. [Dual SIM]
Fixed displaying SIM1 information even if SIM2 is active.
 - Main Screen2 – Cell Measurement
 - Shortcut Bar

4. [DSDS View]
Changed the DSDS Statistics.
Session time is divided in detail.
 - Before : SESSION Time
 - After : HANDIN_HANDOUT STATISTICS, SESSION STATISTICS

Function

1. [License]
Fixed the problem of not reading IMEI2 in XCAL-Mobile.

2. [AOF]
Fixed issue with AOF Sampling function not working in solo.

XCAL-Harmonizer 3.00.041

Release Date : 2023-05-02

JIRA Resolved

1. [XM-794]
GPS unknown in Harmonizer
Use GPS location information last acquired in Current Version (within 5 seconds in before version)
Change GPS priority to (1.GMS - 2.NMEA - 3.Andoidr GPS)

RF View

1. [Qualcomm – 5G NR]

Added some KPIs provided by XCAL-Mobile.

The KPIs we added are:

- NGCI
- NCI
- gNB ID
- Cell ID
- MCC
- MNC
- Duplex Mode

2. [VoLTE]

Changed Service type of LTE Only to 5G+LTE.

XCAL-Mobile/Solo 5.00.151

Release Date : 2023-04-18

JIRA Resolved

1. [XM-772] PS Call fail

Fixed the problem that PS Call does not work properly in Hisilicon chipset

RF View

1. [DSDS View]

Improved the UI and some KPIs of DSDS Summary and Throughput Info.

The KPIs added are:

- Hand In-Out Time(ms)
- SIM2 to SIM1 HandOut
- SIM1 to SIM2 HandIn
- SIM2 to WiFi HandOut
- WiFi to SIM2 HandIn
- SIM1 to WiFi HandOut
- WiFi to SIM1 HandIn

2. [WiFi]

Changed the WiFi Parameter[EF50(Log Type=3)] logging frequency from 1 second to every time.

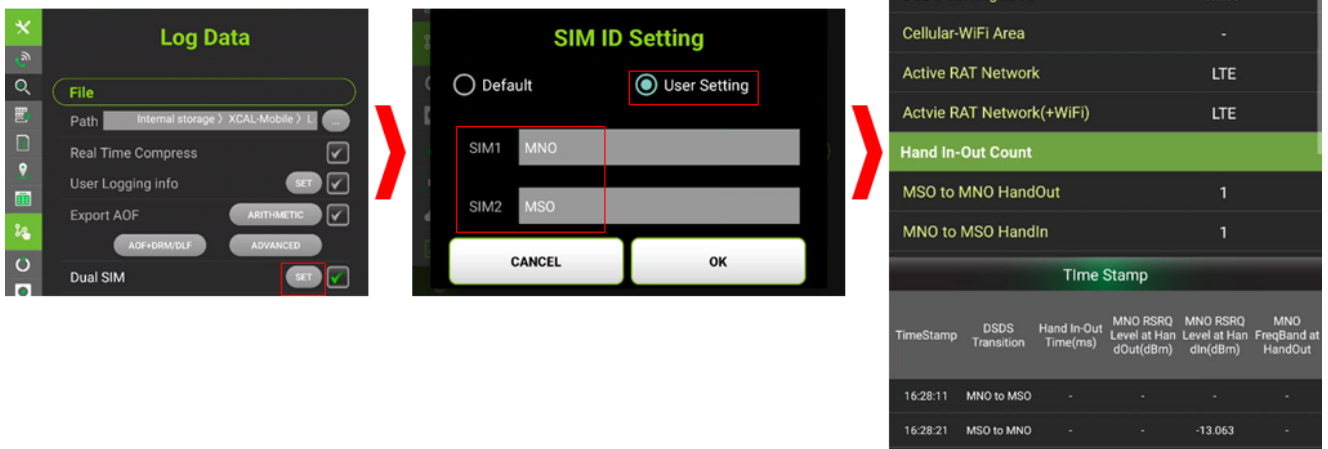
When logging WiFi status information every second, there was an event that was missed, so it was changed.

Function

1. [Dual SIM ID Setting]

Added option to rename Dual SIM.

Changing the SIM ID applies to all SIM IDs in DSDS Viewer.



XCAL-Harmonizer 3.00.039

Release Date : 2023-04-18

JIRA Resolved

- [XM-778] Harmonizer App crashes after connecting Scanner

RF View

- [Hisilicon – 5G NR]
Added some KPIs provided by XCAL-Mobile.
The KPIs we added are:
 - NGCI
 - NCI
 - gNB ID
 - Cell ID
 - MCC
 - MNC
 - Duplex Mode

XCAL-Mobile/Solo 5.00.148

Release Date : 2023-04-03

JIRA Resolved

1. [XM-770] [XCAL-Mobile v5.00.141] XCALv5 has stopped.

Autocall

1. [FTP/HTTP]
Changed FTP/HTTP NT logic. The criterion for judgment is calculated as the average throughput of the traffic time section excluding the start time section.
2. [HTTP]
Fixed abnormal behavior of WiFi mode in HTTP Web type

RF View

2. [Smart phone Info – EF50 only in XCAL-Solo]
Fixed the problem that EF50 is logged every 2 seconds in XCAL-Solo
3. [Request/Response Message in Qualcomm]
Added Qualcomm Diag Service/Get Log Allocation Count request/response messages[0xAFF1/0xA0AA].

Function

[Permission]

Fixed App Crash after allowing Permission when running the app for the first time

XCAL-Mobile/Solo 5.00.143

Release Date : 2023-03-20

JIRA Resolved

2. [XM-667] DSDS logs from solo 112 version don't display network data under smartphone
3. [XM-760] SOLO app not correctly installing and opening with only eSim

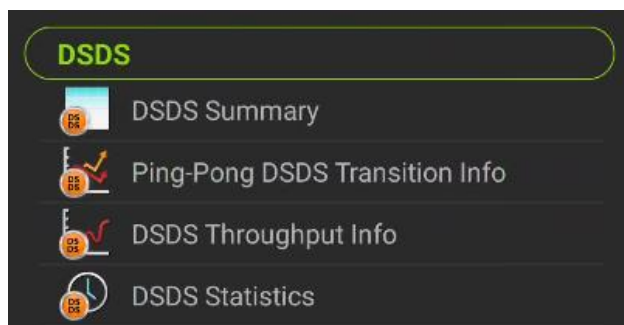
Autocall

RF View

4. [DSDS View]

Added DSDS KPI View to RF View.

- DSDS Summary: Check Current DSDS Info in real time.
- Ping-Pong DSDS Transition Info: Check the number of transitions between SIM1 and SIM2.
- DSDS Throughput Info: Check throughput information for each SIM.
- DSDS Statistics: View DSDS Statistics in real time.



Function

2. [Qualcomm Log Mask]

Updated Qualcomm new Log Mask.

- 0xB803: NR5G NAS SNPN CONFIG LIST INFO
- 0xB804: NR5G MM5G RRC PAGE IND

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- 0xB805: NR5G Serv Req Status Info
- 0xB8C6: NR5G LL1 FW RX Control FTL
- 0xB8C7: NR5G LL1 FW RX Control TTL
- 0xB8C8: NR5G LL1 FW RX Control CCH
- 0xB303: LTE NLIC Configuration
- 0xB304: LTE NLIC State Report
- 0xB30C: LTE LL1 NB Hop Info
- 0xB313: LTE LL1 Rx Agc Ext
- 0xB31B: LOG LTE NB SAMPLE CAPTURE
- 0xB31C: LOG LTE NB SAMPLE CAPTURE
- 0xB1FF: LTE ML1 RFMGR MCPM SDR INFO
- 0xB364: LTE ML1 PBCH Database
- 0xB365: LTE ML1 RFMGR SCRIPT LOG PKT
- 0xB369: LTE ML1 RFMGR SCRIPT PREBUILD LOG PKT

XCAL-Mobile/Solo 5.00.141

Release Date : 2023-03-08

JIRA Resolved

2. [XM-738] FTP not working
3. [XM-741] MULTICALL split per scenario
4. [XM-744] Crash always while entering Ranger Mode
5. [XM-751] Voice call stuck at the first call

Autocall

4. [Online Meeting]

The 'Slave count' option has been removed. Regardless of the total number of guests attending the meeting, if one or more people connect, it is judged as a traffic start from the host (master).

5. [MOS Settings]

When measuring voice MOS, a Call Info item has been added so that the sound source being used for measurement can also be checked on the Autocall Statistics screen.



Function

3. [Module Download]
Improved the Module download process.
 - Reduced the size of the download file

XCAL-Mobile/Solo 5.00.140

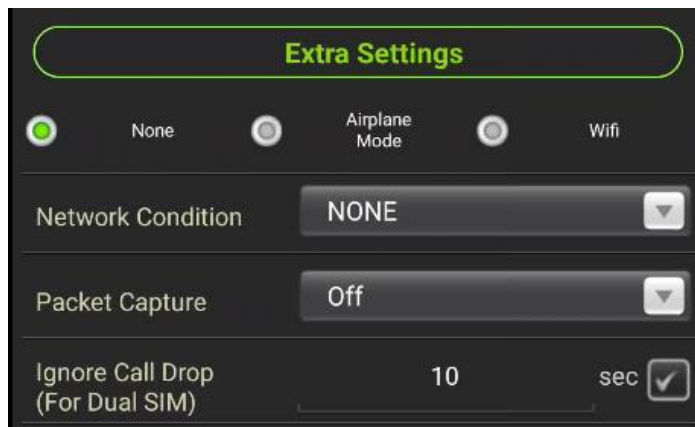
Release Date : 2023-02-20

JIRA Resolved

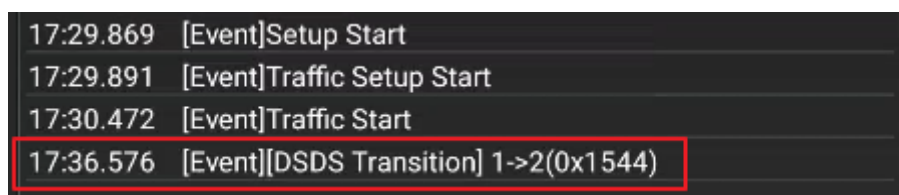
1. [XM-723] input '+' for voice call
Add Special Symbol in dial number

Autocall

1. [Voice][VoLTE] Dial Num input keypad change (add special symbol !,@,#,+ etc..)
2. [HTTP/FTP - DSDS]
Added Ignore Call Drop (For Dual SIM) option for DSDS support.
If this option is turned on, even if the network is changed by SIM change or WiFi, the drop judgment will not be made for the set time, and traffic will continue if reconnected within that time.



3. [DSDS Call Event]
DSDS Call Event is logged when Network is changed to SIM Change or WiFi.



4. [HTTP UL]

Changed to use HttpURLConnection Library when using https address in HTTP Upload Type and using PUT method.

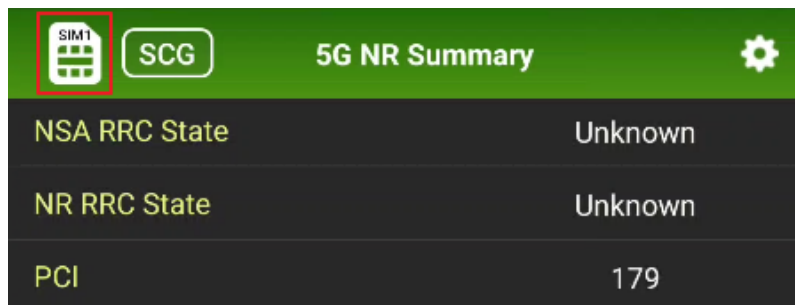
The reason for the change is that POCO Library does not support it.

RF View

1. [Dual SIM]

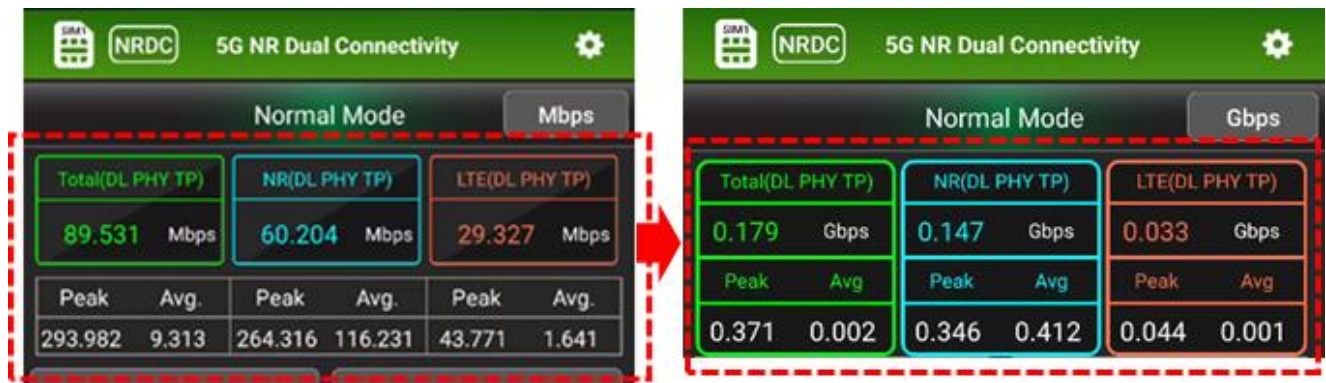
Changed conditions for enabling SIM Index icon for checking Dual SIM KPIs.

Even if you do not check the Dual SIM option, the icon is activated if you have a Dual SIM license on a model equipped with Dual SIM.



2. [NR DC]

Changed the design of the NR DC summary screen.



Function

1. [Qualcomm LogMask]

Changed the following two LogMasks to Default values on the Qualcomm Chipset.

- 0x1544: QMI_MCS_QCSI_PKT
- Event Report 2685: EVENT_CM_MSIM_INFO_CHG

XCAL-Mobile/Solo 5.00.136

Release Date : 2023-02-06

JIRA Resolved

4. [XM-707] HTTP DL throughput via autocal is lower than that via web browser
5. [XM-711] ENDC throughput – No.1 modified
6. [XM-718] Same RID with two devices (Sharp Aquos zero6)

Autocal

5. [HTTP DL&UL]
Changed the buffer size of HTTP DL & UL from 4KB to 64KB.

XCAL-Mobile/Solo 5.00.129

Release Date : 2023-01-20

Autocall

6. [PS Call]

Added logic to determine Detach with Network State if there is no response for more than 1 second after Detach request.

However, since the Detach Time determined at this time is not valid, the Detach Time is not calculated.

XCAL-Mobile/Solo 5.00.126

Release Date : 2023-01-09

JIRA Resolved

1. [XM-622] Autocall button labeled as "Start" when autocall is in progress
2. [XM-666] Call no issue on Call start event
3. [XM-688] SOLO3 cannot band lock n8 Xiaomi MIX4 mobile phone
4. [XM-694] MULTICALL split per scenario

RF View

1. [LogMask]
Event Report has been updated.

XCAL-Harmonizer 3.00.034

Release Date : 2023-01-09

RF View

1. [RF Summary]
Improved the problem of KPI not being visible on Android 13 devices.

XCAL-Mobile/Solo 5.00.124

Release Date : 2022-12-26

JIRA Resolved

2. [XM-686] Data offset while ding multicall testing with Solo
3. [XM-666] Call no issue on Call start event
4. [XM-676] [Ping] Loss count

Function

[Android Dual SIM Info(0xEF74=51)]

Changed 0xEF74=51 to be logged even when the Dual SIM option is disabled.

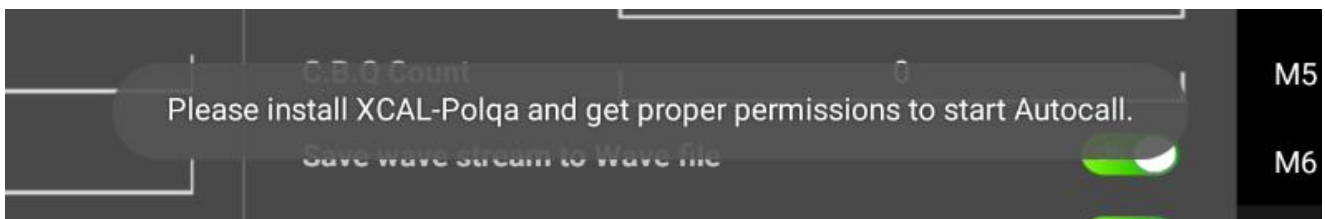
XCAL-Harmonizer 3.00.033

Release Date : 2022-12-26

Function

2. [MOS Permission]

Scenario cannot be applied if the XCAL-Polqa app is not installed.



XCAL-Mobile/Solo 5.00.122

Release Date : 2022-12-12

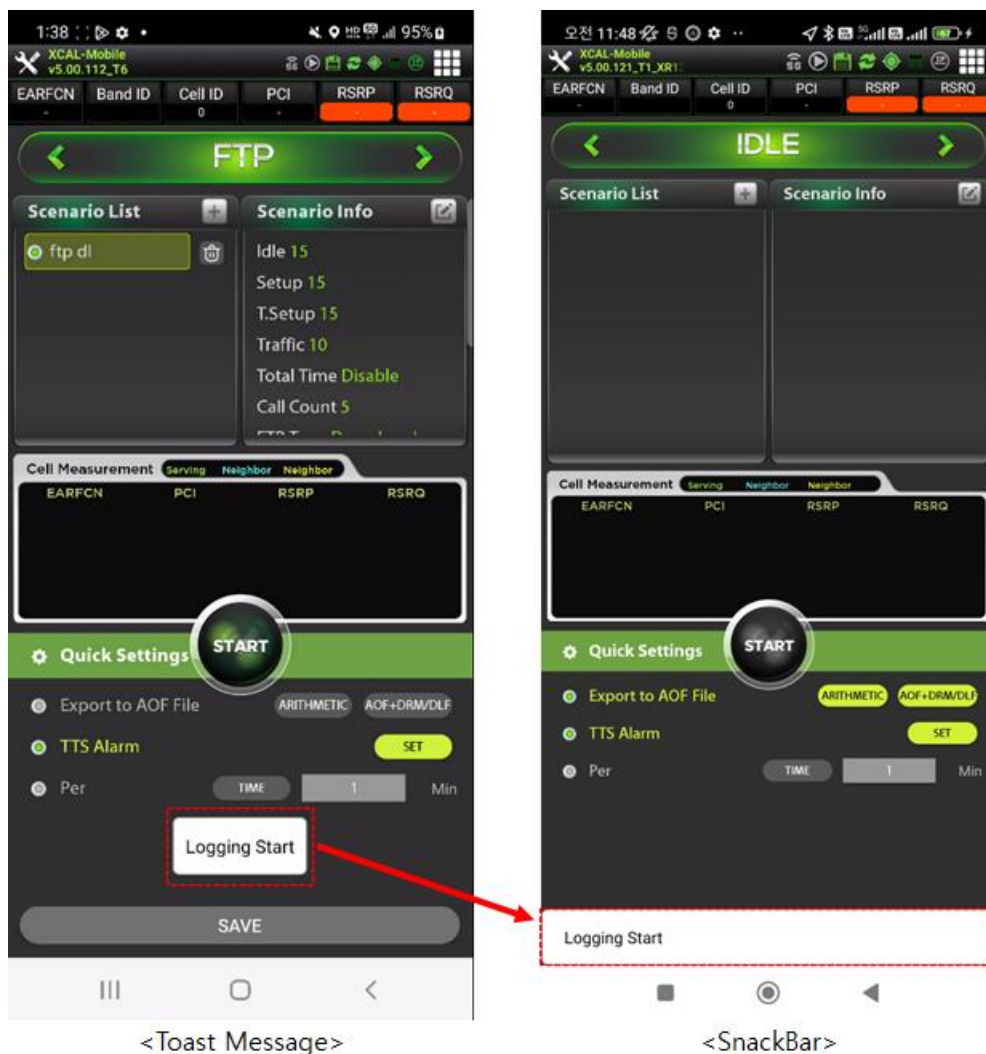
JIRA Resolved

5. [XM-648][A201SO][X65] Sony - Xperia -Issues that cannot obtain Packet Capture
6. [XM-667] DSDS logs from solo 112 version don't display network data under smartphone

Function

1. [SnackBar]

Changed Toast Message to SnackBar according to Android recommendations.



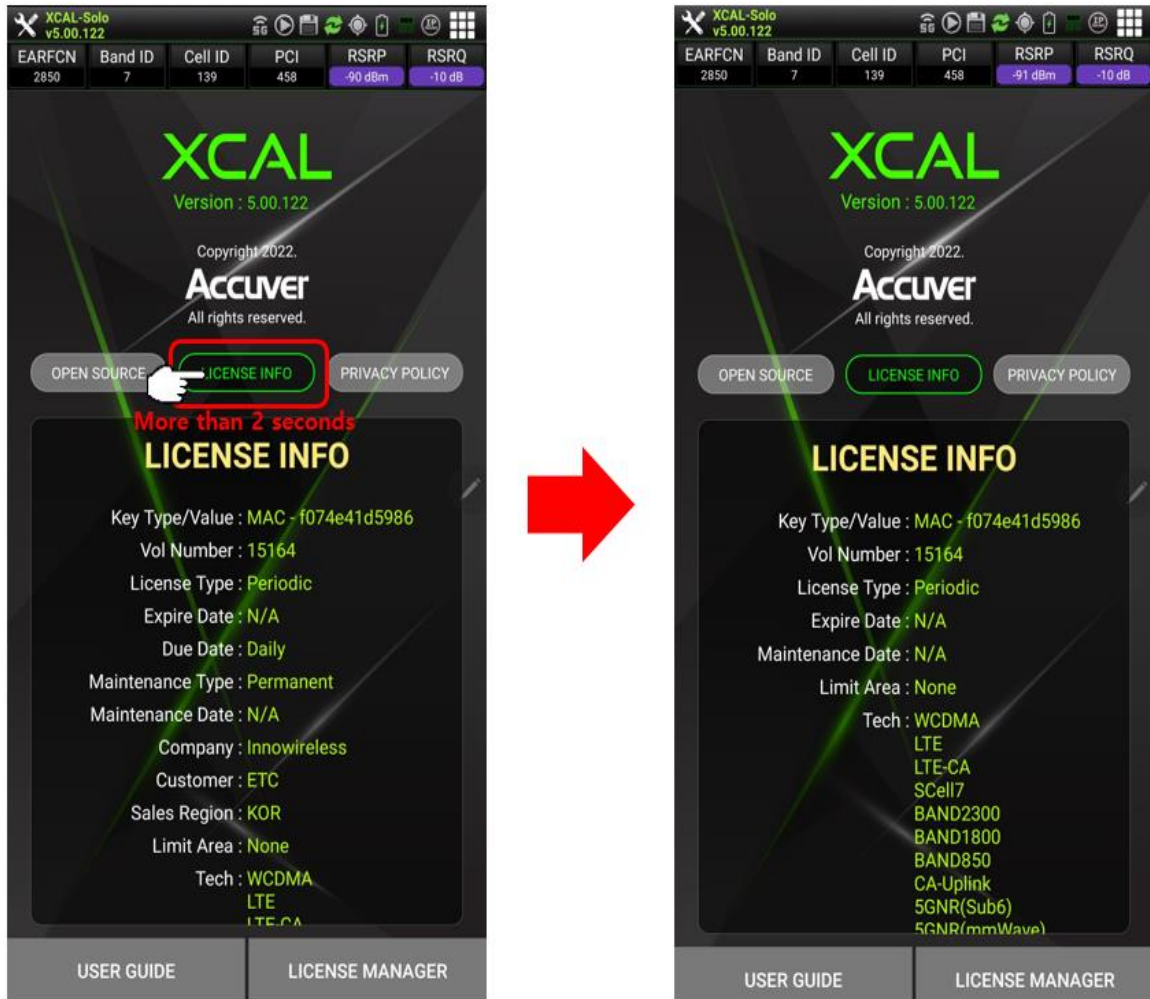
2. [Firebase Library]

Updated Firebase Library to the latest version (24.1.2 → 24.4.1).

1. [About → License info]

Some License info items have been hidden by a management issue.

If you select LICENSE INFO under the ACCUVER logo for more than 2 seconds, all items will be displayed.



XCAL-Mobile/Solo 5.00.120

Release Date : 2022-11-28

JIRA Resolved

7. [XM-636] MOS Call Crashes App

8. [XM-641] Urgent issue -No calculation is displayed in POLQAMOS result from 2nd call
9. [XM-653] (n/a) how can we check AMC date?

XCAL-Harmonizer 3.00.032

Release Date : 2022-11-28

There is no revision history. Just updated version code for XCAL-Mobile/Solo connection.

XCAL-Mobile/Solo 5.00.114

Release Date : 2022-11-14

JIRA Resolved

10. [XM-598] Dumping a single log file for Dual-SIM

11. [XM-614] [XCAL-Mobile][SB] Sony - Xperia 1 IV - A201SO

12. [XM-631] About the function of Log Upload : (Log file Manager) Back button turn select mode to view mode.

RF View

Function

1. [Toast Message]

Toast Message's design was created and applied.

Even if Android doesn't provide a theme, you can still display a message.

XCAL-Mobile/Solo 5.00.112

Release Date : 2022-10-31

JIRA Resolved

13. [XM-611] [LTE Summary] QCI issue

14. [XM-620] Minus 0 value in Y axis

RF View

1. [LTE RF Summary]

Added QCI initialization condition.

- When "Deactivate EPS bearer context request" signaling message is received

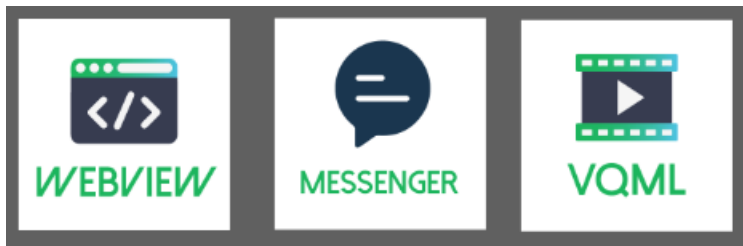
Function

2. [Network Lock(Hidden-ADB)]

Added command to support Hidden-ADB menu on Sony Xperia 1 III (XQ-BC52) and Sony Xperia 1 IV (A201SO).

3. [support application]

The app icons of XCAL-Mobile/Solo support applications have been updated such as XCAL-Webview, XCAL-Messenger and XCAL-VQML.



4. [Control - Network]

Network Lock(Mediatek)

The Network Lock of Mediatek chipset has been added. (RAT Lock, Band Lock)

- ※ Only support with AT Command available devices.

5. [Inbuilding] Change GPS coordinates of P1 to be logged when logging 0x30E1 (floor start)

6. [Inbuilding] Chage 0x1014 GPS information not to be logged during Inbuilding Measurement

XCAL-Harmonizer 3.00.031

Release Date : 2022-10-31

Function

2. [inbuilding]Fix App crash when measuring Ping and IBWC
3. [inbuilding] Fix error that cannot be saved when creating TAB+JPG
4. [inbuilding]Fix Lon,lat saved in reverse when Creating IBWC.
 - Cause of New Format of IBWC

5. [inbuilding]Fix the empty building info when setting TAB+JPG
 - Chage to show the first GPS Coordinate of the TAB file
6. [inbuilding] Pop-up added when IBWC file setting changed

XCAL-Mobile/Solo 5.00.109

Release Date : 2022-10-18

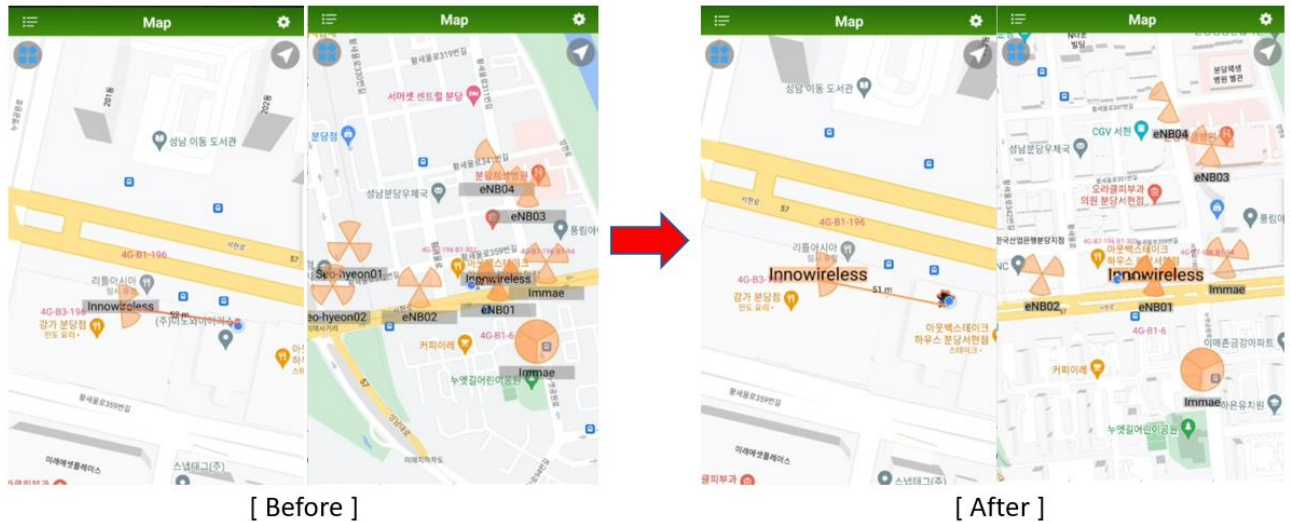
JIRA Resolved

15. [XM-583] Solo - Reports
16. [XM-609] [TWAMP] Sever port is not editable
17. [XM-614] [XCAL-Mobile][SB] Sony - Xperia 1 IV - A201SO
18. [XM-617] Dual view for DSOS

Autocall

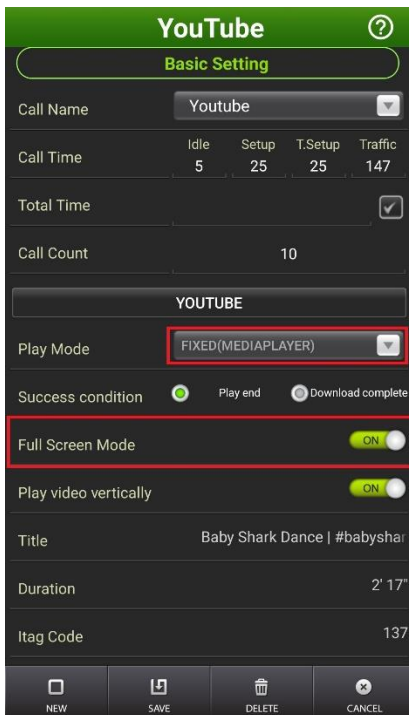
7. [Map]

To give a better view of the site location you are using, we added a color to the site name with the service line attached.



8. [Youtube]

In addition to 'Play Mode: Automatic(Webview)', a function has been added to enable 'Full Screen Mode' to be used in 'Play Mode: Fixed(mediaplayer)'.

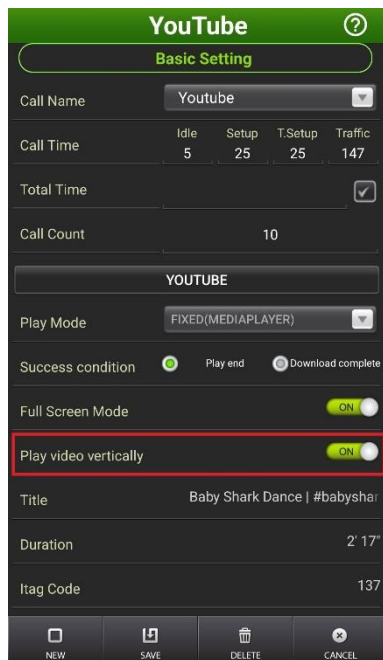


9. [Youtube]

When using the 'Full Screen Mode' option, an option to play video vertically has been

added.

If you select the 'Play video vertically' option, the full screen video is played vertically. The 'Play video vertically' option is only visible in "Play Mode: Automatic(Webview), Fixed(mediaplayer)' .



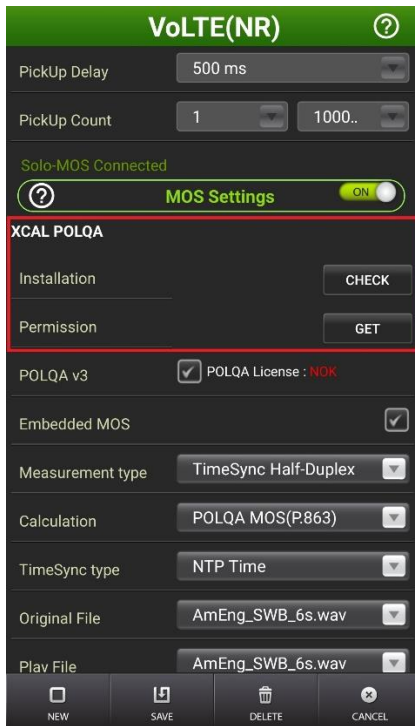
Function

7. [MOS Settings]

Opticomm's POLQA function, which used to measure voice MOS, has been separated from the XCAL-Mobile/Solo app.

In order to use the voice MOS measurement function, you need to install the XCAL-POLQA app and grant permission in the scenario editing screen.

The function is separated from the previous one, but the operation is the same as before.



XCAL-Harmonizer 3.00.030

Release Date : 2022-10-18

JIRA Resolved

1. [XM-607]Issues with inbuilding testing

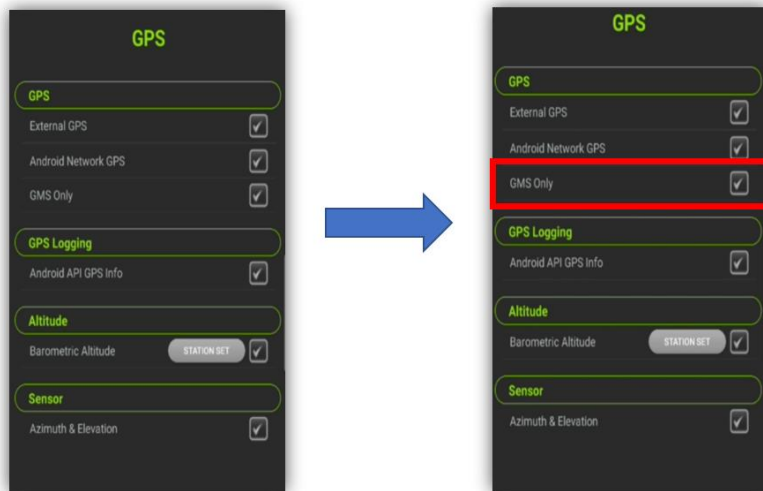
XCAL-Mobile/Solo 5.00.103

Release Date : 2022-09-22

JIRA Resolved

2. [XM577] XCAL-Mobile does not activate GPS

- GMS only mode has been added.



3. [XM-580] [TWAMP] Below success ratio
4. [XM-581] [X-Remote] Ranger mode(Network Probe mode) app crash
5. [XM-584] Solo - Excel Report Errors
6. [XM-585] XCAL-Mobile PS Call
7. [XM-586] ADB script runs differently than in XCAL-M
8. [XM-595] (BT) GPS info is strange on A90 (XM 5.00.097)

Function

8. [Master/Slave]

“Watch Mode” has been added.

By connecting with a smart watch using Google wear OS, monitoring and autocall operation can be performed on the watch. (XCAL-Watch must be installed on the smart watch.)

Master / Slave

MASTER MODE

SLAVE MODE

HARMONIZER MODE

WATCH MODE

CANCEL

Watch Mode

Device Name: M_SKTelecom_01048274878
Phone Number: 01048274878

BLUETOOTH CONNECT

RF SETTING

Watch INFO

Device Name
Bluetooth Status: Connected

Scenario Info

FTP_DL_Low Th	
CALL TYPE	FTP
IDLE TIME	2
SETUP TIME	20
T.SETUP TIME	1
TRAFFIC TIME	3
TOTAL TIME	0
CALL COUNT	1

EXIT MODE

M1

PCI	RSRP
196	-95
RSRQ	RSSI
-10	-68

START


M1

FTP | FTP_DL_Low Th

WEB

START

M1



BACK | SETTING

M1

FTP	FTP_DL_Low Th
Traffic	2/3
THP(Cur)	2.35Mbps
THP(Avg)	1.61Mbps
THP(Max/Min)	2.66Mbps/1.55Mbps

Result

STOP

XCAL-Mobile/Solo 5.00.097

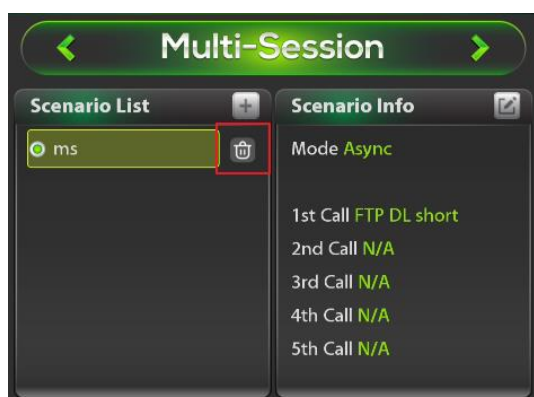
Release Date : 2022-09-05

JIRA Resolved

- [XM-518] [XCAL- Mobile v5.00.076] Wrong Call type (MMS instead SMS) in Call Result report

Autocall

- [Multi-Session]
Changed to be able to measure VoLTE on Samsung chipset.
- [Multi-Session/Multi-RAB]
Added Delete Scenario button in Main GUI.



Function

- [Packet Capture]
Added logging item to Autocall Config2(Time) when setting Size in Save to PCAP File option.

```
IP_Packet_Size_Type : Common
Common_Packet_Size : OFF
Qualcomm_Packet_Size : OFF
Samsung_Packet_Size : 0
Use_IP_Packet_Size_Type : 0
GroupCall_Repeat : 0
Use_Android_Packet_Capture : use (1)
Android_Packet_Capture_Size(Byte) : 100 (0)
```

10. [XCAL-Duo]

Added XCAL-Duo to connect with XCAL-Harmonizer. In the same way as before, it enters HARMONIZER MODE and interlocks.

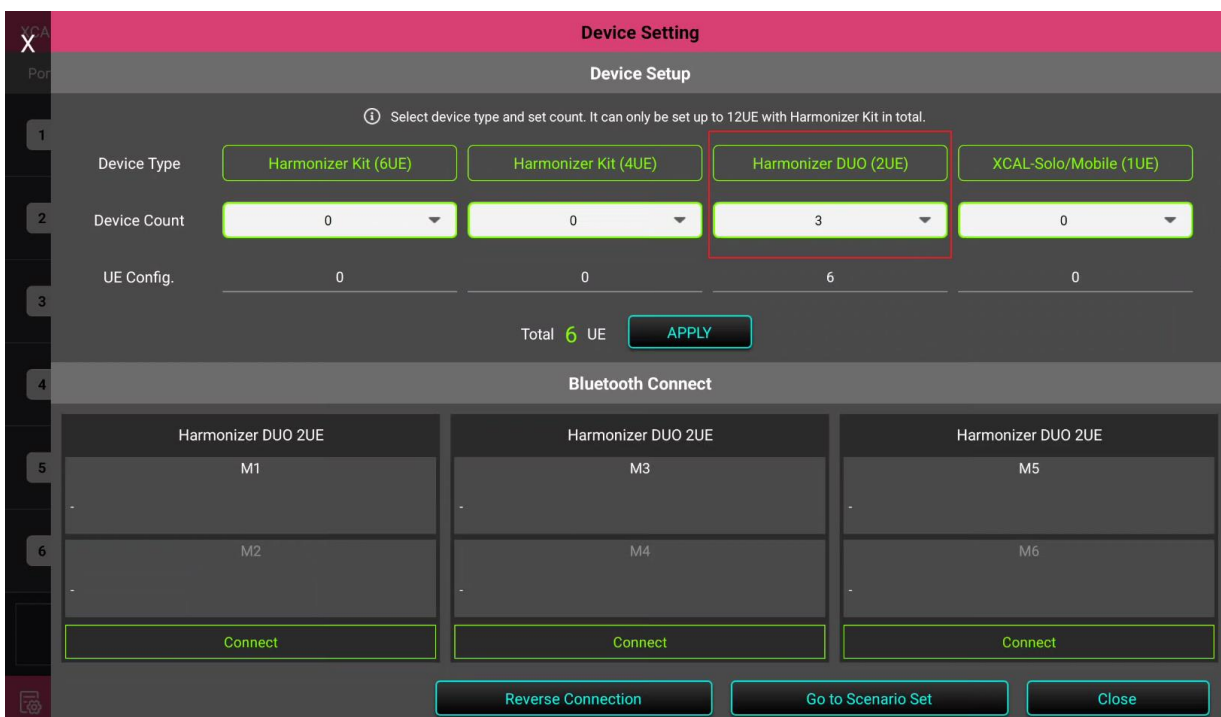
XCAL-Harmonizer 3.00.028

Release Date : 2022-09-05

Function

7. [XCAL-Duo]

A function for linking XCAL-Duo has been added. You can proceed with the connection by selecting XCAL-Duo as the Device Type.



XCAL-Mobile/Solo 5.00.091

Release Date : 2022-08-23

XCAL-Mobile/Solo 5.00.089

Release Date : 2022-08-17

JIRA Resolved

10. [XM-522][XCAL- Mobile v5.00.076] Issues when postprocessing of XCAL Mobile logs in XCAP

XCAL-Harmonizer 3.00.027

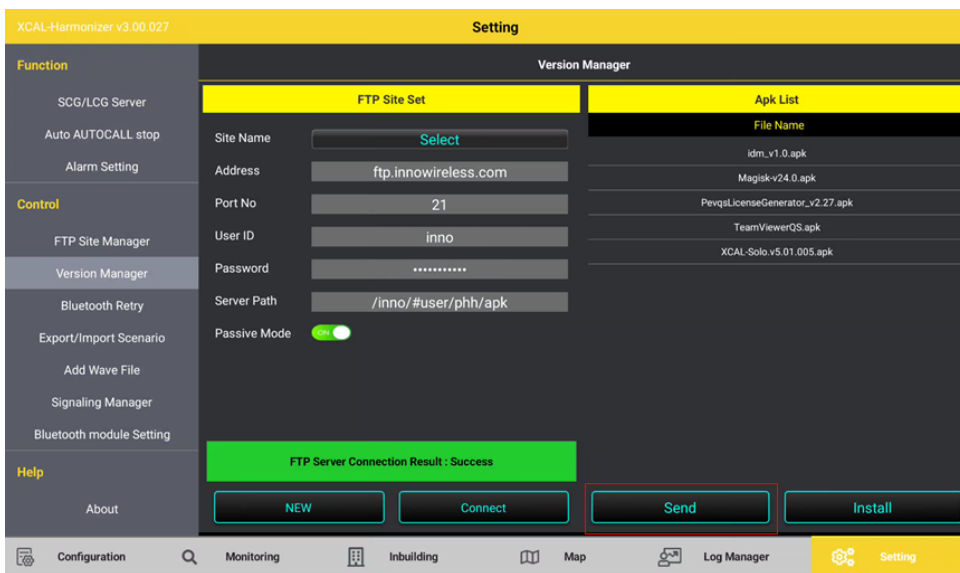
Release Date : 2022-08-17

Function

1. [Version Manager]

Added Send button to Version Manager feature.

If you click the Send button, the FTP information set in the FTP Site Set is transmitted to the connected device.



XCAL-Mobile/Solo 5.00.088

Release Date : 2022-08-09

JIRA Resolved

11. [XM-476] XCAL-Mobile cannot save logs to SD card

XCAL-Mobile/Solo 5.00.082

Release Date : 2022-07-25

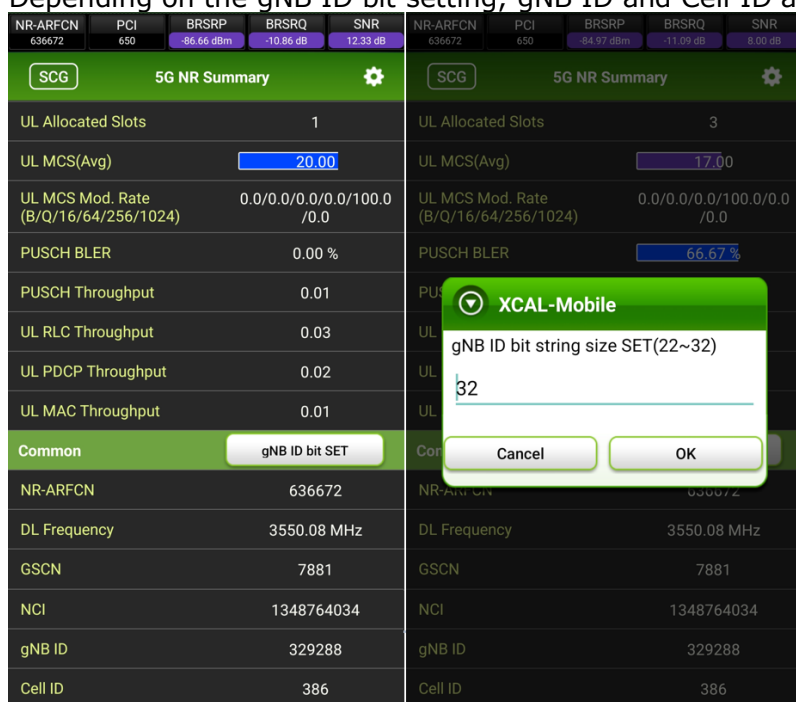
JIRA Resolved

12. [XM-529][Urgent issue] Chanel number setting issue on PCTEL scanner NB-IoT setting of Solo

RF View

1. [QC][5G NR Summary][Common]

5G NCI, gNB ID, and Cell ID items have been added.
Depending on the gNB ID bit setting, gNB ID and Cell ID are changed. (Default:24)



XCAL-Mobile/Solo 5.00.081

Release Date : 2022-07-18

JIRA Resolved

12. [XM-444] Xiaomi Mi 11 - PCAP issues
13. [XM-504] XCAL Mobile 5.00.071 Iperf Autocall crash once
14. [XM-516] XCAL Mobile 5 Lite - shows incorrect values in Android summary in 3G
15. [XM-519][XCAL- Mobile v5.00.076] Crash while opening test result in Call Test History
16. [XM-520][XCAL- Mobile v5.00.076] Failed demo to potential customer - multiple crashes when running autocall
17. [XM-527][A103SO] Nothing is displayed during Server Connect

Autocall

1. [HTTP]
Additional development was made to support HTTPS in HTTP Download and Upload.
2. [TWAMP]
TWAMP's Jitter calculation formula has been changed.
prior : $|\text{IntD}(n) - \text{IntD}(n-1)|$
change : $|\text{NwRTD}(n) - \text{NwRTD}(n-1)|$

RF View

Function

11. [Save to PCAP File]
Added an option to set the Save to PCAP File function in detail. A detailed description of the options is given below.
 - Size : Set the packet capture size.
 - Protocol: Set the protocol when capturing packets to collect the desired packets.
 - Network Adapter : Select the Network Adapter being used by the device. This option allows you to exclude the SLL from being collected on Linux bases.

XCAL-Mobile/Solo 5.00.076

Release Date : 2022-07-05

JIRA Resolved

2. [XM-406] XCAL Solo does not support Samsung S22
3. [XM-475] [XCAL-Mobile] Wrong Multi-Call success rate
4. [XM-497] XCAL Mobile 5.00.071 - autocal button animation during manual logging
5. [XM-502] XCAL Mobile 5.00.071 HTTP DL Autocall crash
6. [XM-503] XCAL Mobile 5.00.071 Multi-Call Accuver Report error
7. [XM-505] [A103SO] Graph is not displayed during SFTP autocall
8. [XM-509] XCAL Mobile 5.00.072 - crash when creating report on demand
9. [XM-515] XCAL-Mobile does crash on loading

Autocall

18. [TWAMP]

The unit of the time value of TWAMP Status Info changed from msec to sec.

Time	Code	Message	
2022-07-04 11:36:07.284021	Application Information		
2022-07-04 11:36:07.284021	Port Config		
2022-07-04 11:36:08.788999	Log File Name Setting		
2022-07-04 11:36:09.966999	AutoCall Config1		
2022-07-04 11:36:09.968000	AutoCall Config2		
2022-07-04 11:36:09.970000	TWAMP Call Config		
2022-07-04 11:36:09.971000	TWAMP Call Event	Idle	Idle Start - None : 1
2022-07-04 11:36:14.988000	TWAMP Call Event	Setup	Setup Start
2022-07-04 11:36:14.990000	TWAMP Call Event	Call Start	
2022-07-04 11:36:14.991999	TWAMP Call Event	Traffic	Traffic Start
2022-07-04 11:36:16.295000	TWAMP Status Information		
2022-07-04 11:36:16.368999	TWAMP Status Information		
2022-07-04 11:36:16.478999	TWAMP Status Information		
2022-07-04 11:36:16.568999	TWAMP Status Information		
2022-07-04 11:36:16.671000	TWAMP Status Information		
2022-07-04 11:36:16.743000	TWAMP Status Information		
2022-07-04 11:36:16.768999	TWAMP Status Information		
2022-07-04 11:36:16.866999	TWAMP Status Information		
2022-07-04 11:36:16.966999	TWAMP Status Information		
2022-07-04 11:36:17.073000	TWAMP Status Information		
2022-07-04 11:36:17.183000	TWAMP Status Information		
2022-07-04 11:36:17.243000	TWAMP Status Information		
2022-07-04 11:36:17.276000	TWAMP Status Information		
2022-07-04 11:36:17.373999	TWAMP Status Information		
2022-07-04 11:36:17.476000	TWAMP Status Information		
2022-07-04 11:36:17.573999	TWAMP Status Information		
2022-07-04 11:36:17.673999	TWAMP Status Information		
2022-07-04 11:36:17.748000	TWAMP Status Information		
2022-07-04 11:36:17.748000	TWAMP Call Event	Success	
2022-07-04 11:36:17.751000	TWAMP Call Event	Release	Release Start
2022-07-04 11:36:22.803000	TWAMP Call Event	Release	Release End

Time	Code	Message
[2022 Jul 4 11:36:16.295000]	TWAMP Status Information	byEF74Type : TWAMP Status Info(75) Version : 1 Type : Android_Client Server : 119.154.139.116 Session_ID : 0x77C28B74.E66CD0D3.10CB8E08.C2FE5CFA SessionIndex : 0 NbOfPackets : 5 Packet_Length : 41 DSCP : 0 TOS : 0 Time : 1656902176.239 Snd : 0 Rcv : 0 SndPT : 30279 RcvPT : 20324 Sync : Yes FW_TTL : 244 SW_TTL : 244 SndTOS : 0 FW_TOS : 55537 SW_TOS : 0 NwRID : 52.646999 IntD : 0.002000 FWD : 51871.886719 SWD : -51819.238281 Lost_Count : 0 Jitter : 0.000000 NwRID_Avg : 52.646999 IntD_Avg : 0.002000

XCAL-Harmonizer 3.00.026

Release Date : 2022-07-05

RF View

1. [Call Status Info.]

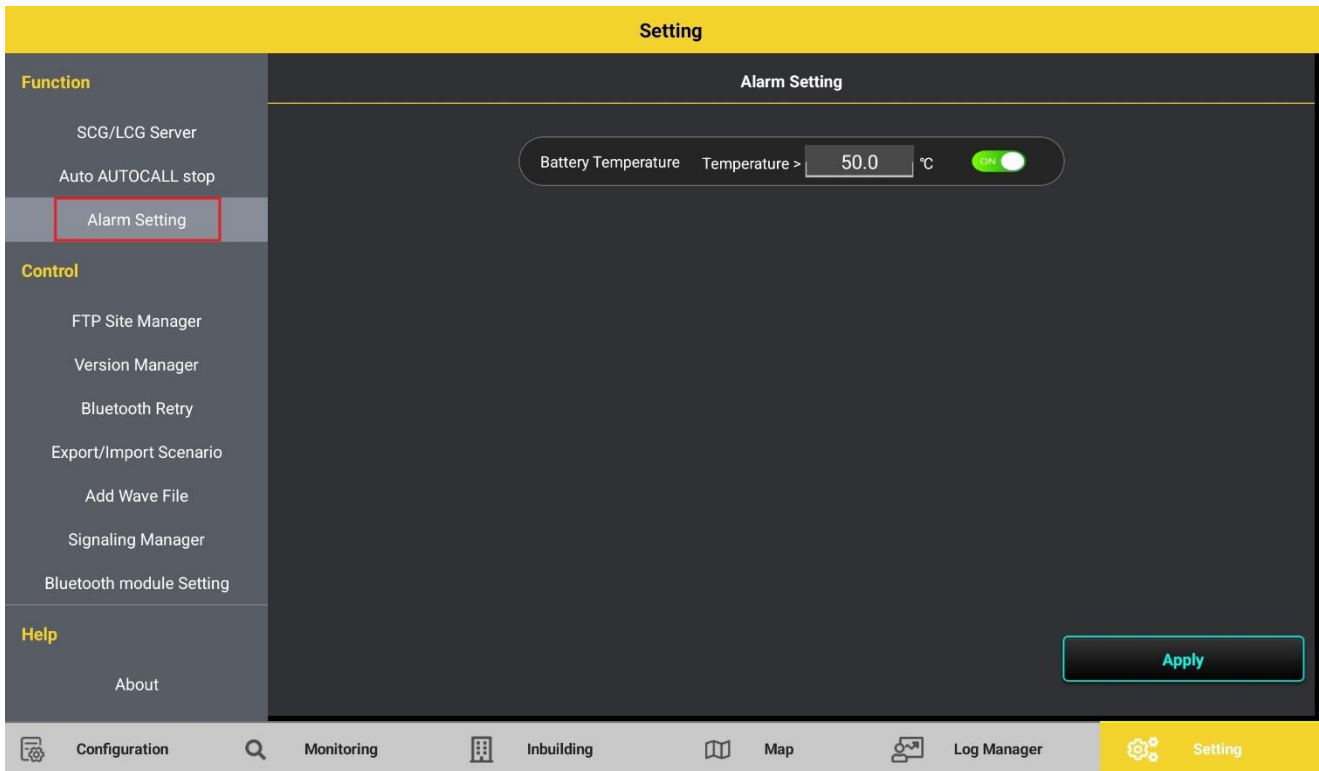
Added Battery Temperature to Call Status Info.

Call Status Info.											
M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Mobile Status	Call Statistics		Call Result History		Filter						
Operator	Scenario Name		http web								
Current Network	Call Type		HTTP								
MIN	Sub Type										
Data State	Total Count		106/500 (21.2%)								
DM Port	Success Count		105 (100.0%)								
Mobile SD Space	Fail Count		0 (0.0%)								
Solo SD Space	Time(I/S/T.S/T)		0 / 0 / 0 / 0								
Mobile Battery	Progress		0%								
Battery Temperature	Call Result.		Call End								
Solo Battery	Thp.(Current)		0.00Mbps								
GPS	Thp.(Avg)		0.00Mbps								
Chipset	Thp.(Max/Min)		0.00/0.00Mbps								
Log Data Info			Total Bytes								
Log File Name	Active Thread		0Mbyte								
Log File Size			0								
Avg.RSRP											
Avg.RSRQ											

Function

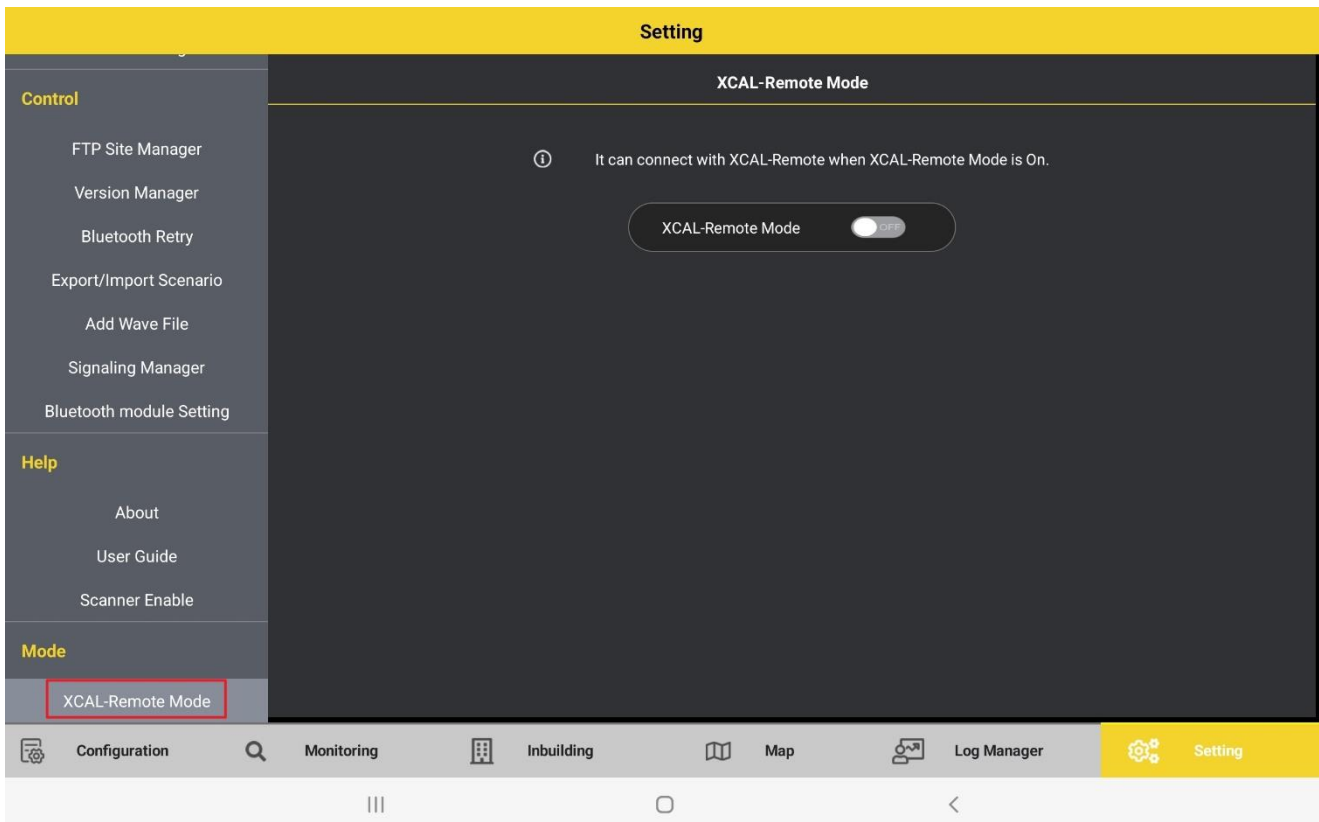
8. [Alarm Setting]

Added a function to trigger an alarm when the battery temperature exceeds the set value.



9. [XCAL-Remote Mode]

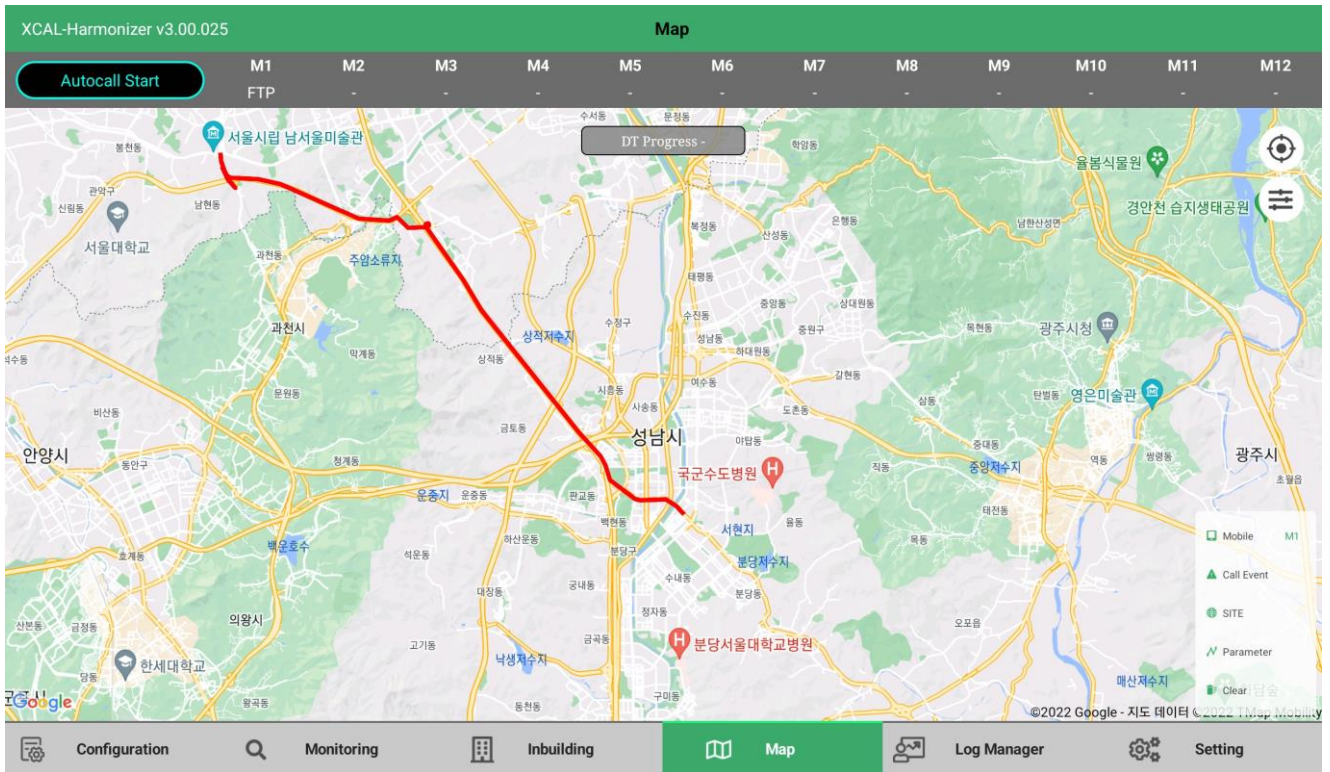
Added XCAL-Remote Mode. This function is to change the mode so that Harmonizer and XCAL-Remote can be linked. If you do not change this mode, the Harmonizer will not discover the remote device.



10. [DTR]

Proprietary & Confidential

Added DTR function. This function is activated when changing to XCAL-Remote mode and connecting with XCAL-Remote, and only the DTR information of M1 is called.



XCAL-Mobile/Solo 5.00.072

Release Date : 2022-06-27

JIRA Resolved

1. [XM-480] XCAL Mobile 5.0.065: not possible to stop logging
2. [XM-482] XCAL Mobile 5.0.065 - unexpected items in Result history
3. [XM-486] Background noise (from microphone) recorded during eMOS
4. [XM-489] Wrong AVG MOS values (e.g. 59,56)
5. [XM-497] XCAL Mobile 5.00.071 - autocal button animation during manual logging
6. [XM-498] XCAL Mobile 5.00.071 - MMS sending not functional - silence app issue
7. [XM-499] XCAL Mobile 5.00.071 - App crash

XCAL-Mobile/Solo 5.00.071

Release Date : 2022-06-22

JIRA Resolved

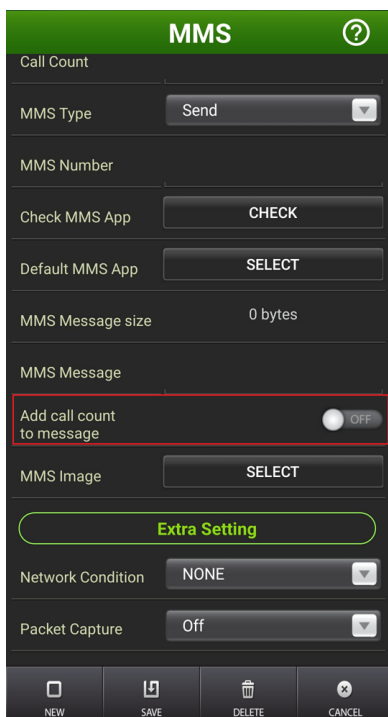
1. [XM-417] XCAL Solo does not support Samsung S22 - MMS autocall and missing diagnostics
2. [XM-444] Xiaomi Mi 11 - PCAP issues
3. [XM-448] [A103SO]High initial throughput of SA
4. [XM-471] A32 logging issue (urgent)
5. [XM-477] XCAL Mobile 5.0.065: frozen autocall buttons , text overlapped by frame border in main screen
6. [XM-478] XCAL Mobile 5.0.065: Dual SIM doesn't work
7. [XM-481] XCAL Mobile 5.00.065 - crash when starting FTP autocall

Autocall

1. [MMS]

Added 'Add call count to message' option.

When this option is turned on, the current call count number is appended to the MMS message. Both Send and Receive have options, so if you use them as a pair, you must set the options the same.



XCAL-Mobile/Solo 5.00.067

Release Date : 2022-06-13

JIRA Resolved

1. [XM-473] Can't Scan channel for band 66 AWS 3
2. [XM-474] Solo app crashed in the scan tab when scrolling down to check all scan IDs
3. [XM-448] [A103SO]High initial throughput of SA
4. [XM-467] XCAL-Solo III - 5G blue icon displayed when UE is not in 5G

XCAL-Mobile/Solo 5.00.065

Release Date : 2022-06-07

JIRA Resolved

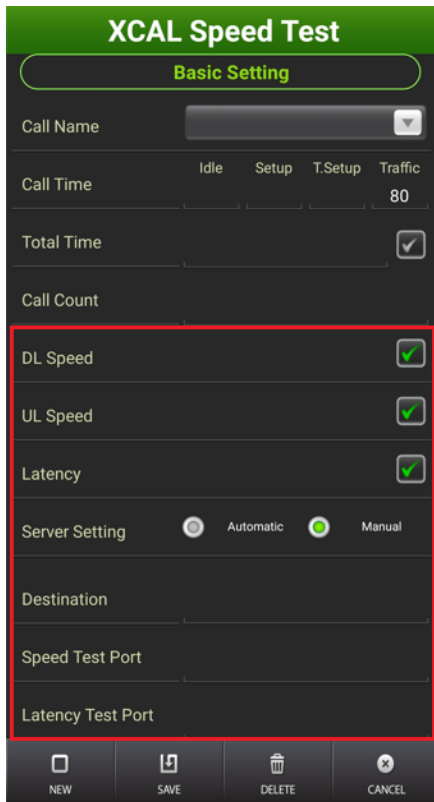
1. [XM-408] Open API tester does not work with XCAL-Mobile Light.
2. [XM-417] XCAL Solo does not support Samsung S22 - MMS autocall and missing diagnostics.
3. [XM-432] XCAL Solo – replay log : rewind and replay again not possible.
4. [XM-433] XCAL Solo III - text not adjusted to available space.
5. [XM-435] Question about the Open API and capability of extending the real-time monitoring KPIs.
6. [XM-442] A103SO SFTP upload test with low throughput issue.
7. [XM-444] Xiaomi Mi 11 - PCAP issues.
8. [XM-453] XCAL Solo III - Crashes when creating ADB custom script autocall.
9. [XM-462] N/V items procedure.

Autocall

1. [XCAL-Speed Test]

Added Test Type and Server Setting function to XCAL-Speed Test autocall.

The Automatic option operates according to the server setting of the XCAL-Speed Test App, and the Manual option operates with the server information entered by the user.



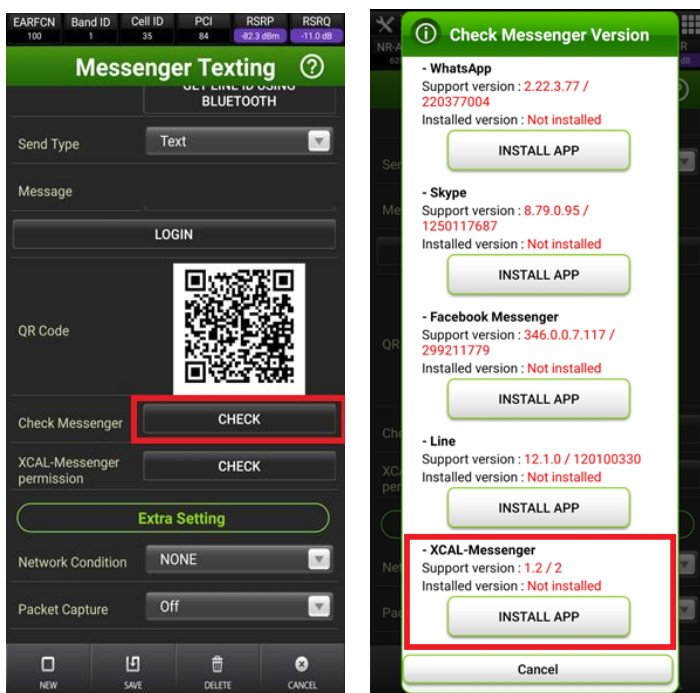
2. [Messenger Texting - Line]

Fixed an issue with Messenger Texting (Line) that was an unknown issue.

Now the Messenger Texting-Line can be used normally.

To use 'Messenger type: Line', XCAL-Messenger must be additionally installed.

It can be installed through the Check Messenger button.



RF View

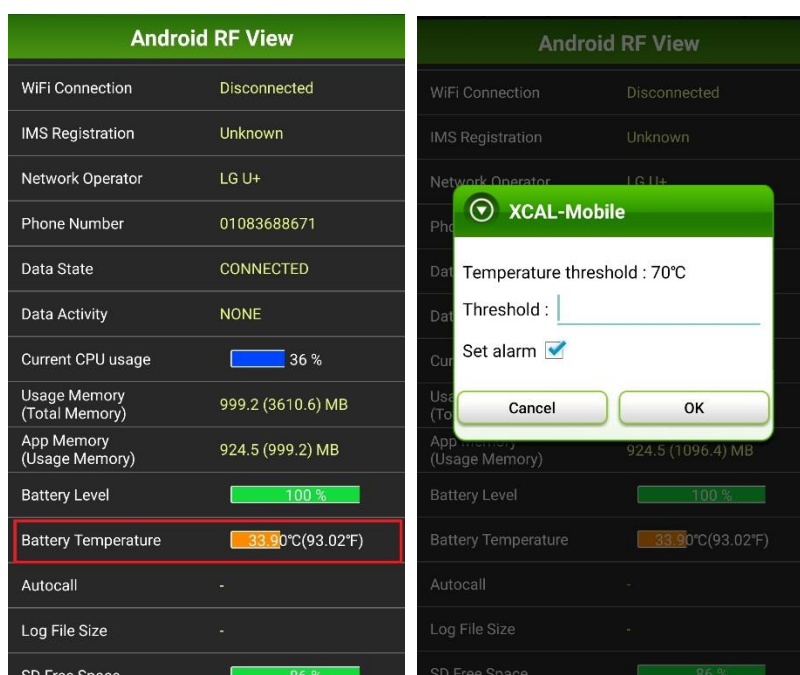
1. [Android RF View]

A battery temperature alarm setting function has been added to the Android RF View screen. When the battery temperature of the smartphone rises above the threshold, a pop-up alarm occurs.

If you touch and hold the area marked with a red box in the photo on the left for more than 2 seconds, the battery temperature setting popup as shown in the photo on the right occurs.

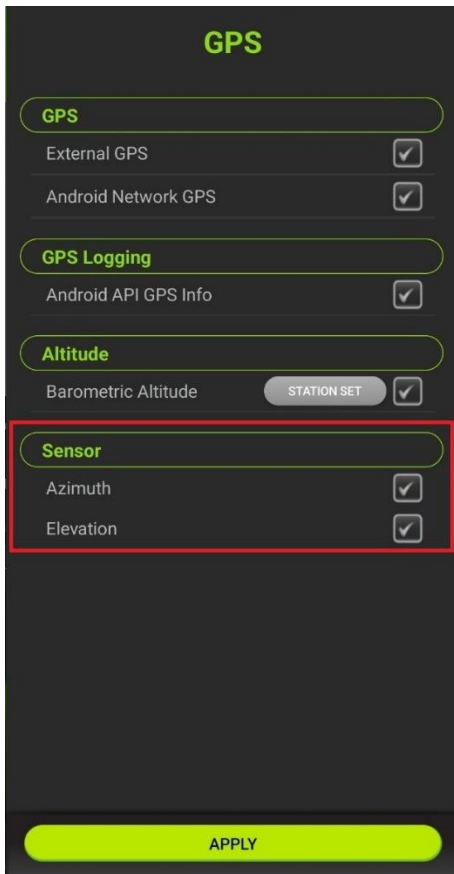
By default, 70 degrees Celsius is set, and you can directly enter a threshold value.

The settings in the pop-up are synchronized with the Alarm Manager settings.



Function

1. [Azimuth & Elevation]

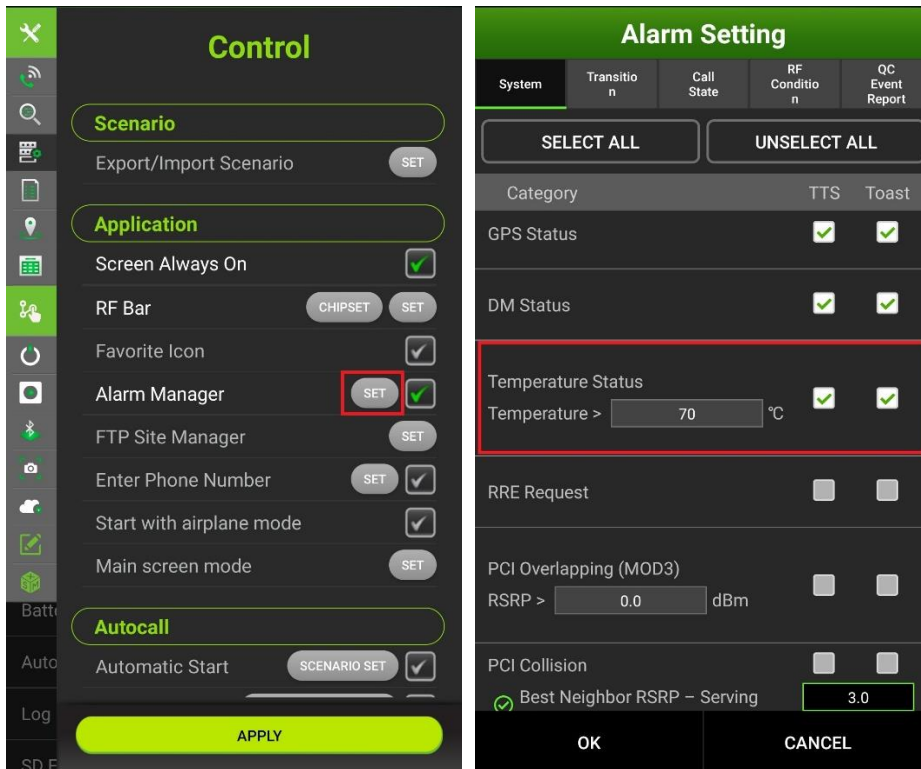


Add Geography info (Azimuth & Elevation)

2. [Alarm Manager]

A battery temperature alarm setting function has been added to Alarm Manager settings. When the battery temperature of the smartphone rises above the threshold, a pop-up alarm occurs.

By default, 70 degrees Celsius is set, and you can directly enter a threshold value. the Alarm Manager settings are synchronized with the pop-up of Android RF View.



XCAL-Mobile/Solo 5.00.057

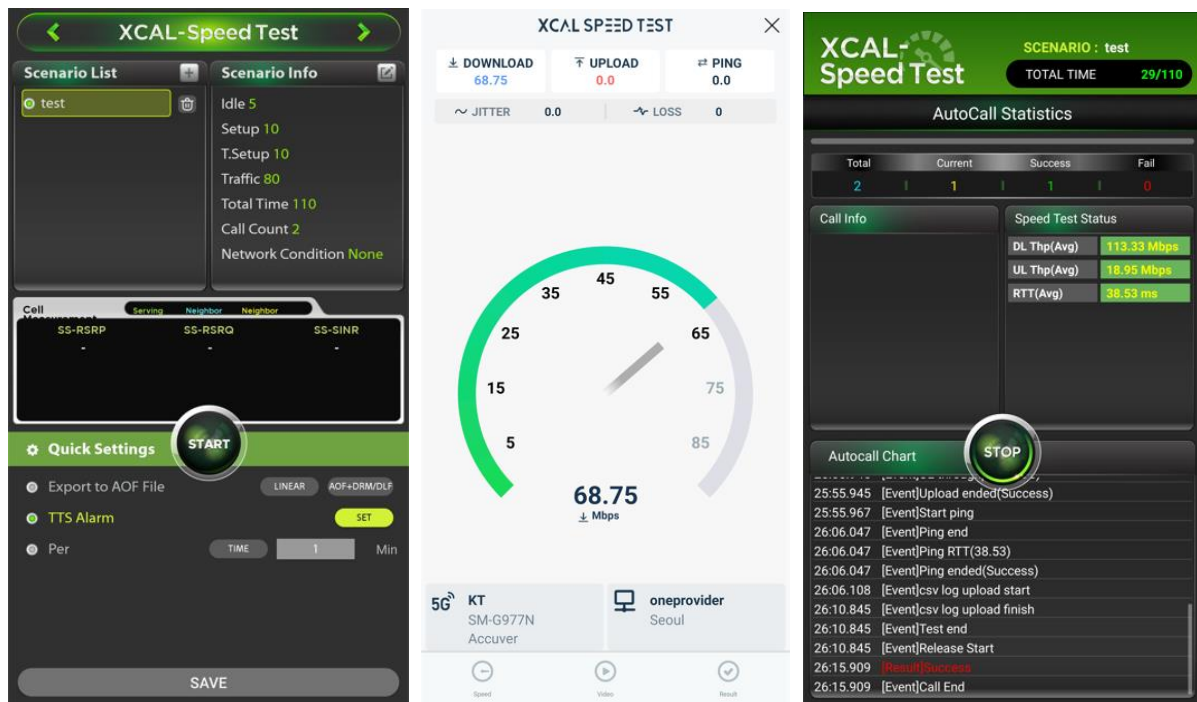
Release Date : 2022-04-04

Autocall

1. [XCAL-Speed Test]

XCAL-Speed Test autocall has been newly added.

This autocall automates the XCAL-Speed Test app. The [Autocall]-[ACCUVER Speed Test] license key is required.



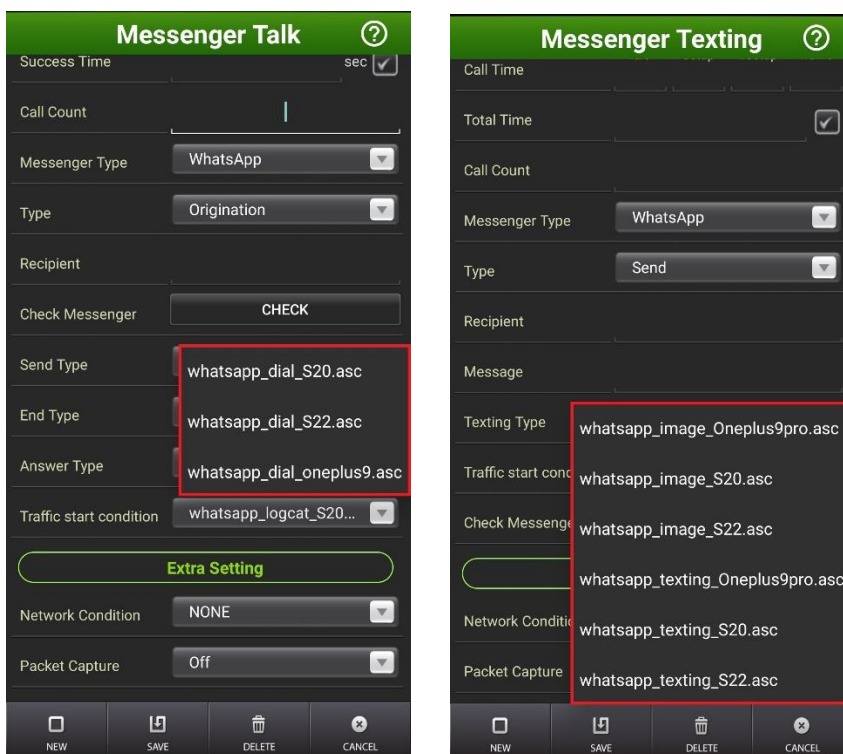
2. [HTTP]

When timeout in HTTP DL, release time is reduced from 10 seconds to 5 seconds.

3. [Messenger Talk/Texting]

Messenger Type: Command samples for Send Type, End Type, and Answer Type in WhatsApp, FaceBook, and Line have been added.

The currently supported command samples are based on Galaxy S20 5G, Oneplus 9 pro, and Galaxy S22+ devices.



4. [Messenger Talk]

If you have a VQML license, you can use the VQML option when the Messenger Type is Skype (Video), WhatsApp (Video), or FaceBook (Video).

The VQML option allows you to measure the video quality of the video currently displayed on the screen (video call) and check the result as a MOS value.

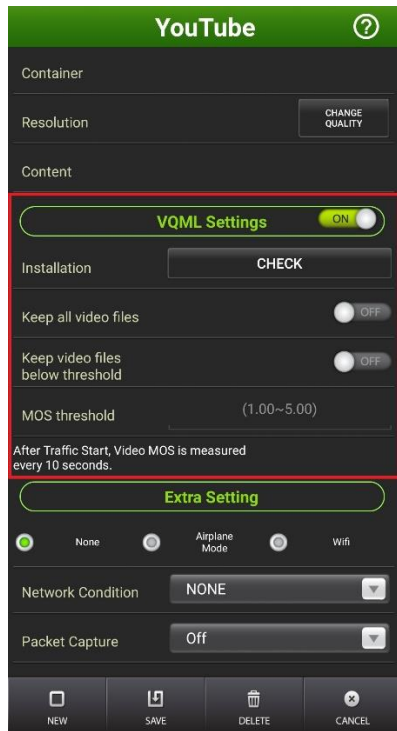


5. [Youtube]

If you have a VQML license, you can use the VQML option.

If you use the VQML option, you can measure the quality of the video (video call) displayed on the current screen and check the result as a MOS value.

When using the VQML option, it is recommended to use Play Mode: Automatic (Webview) and Full Screen Mode together.

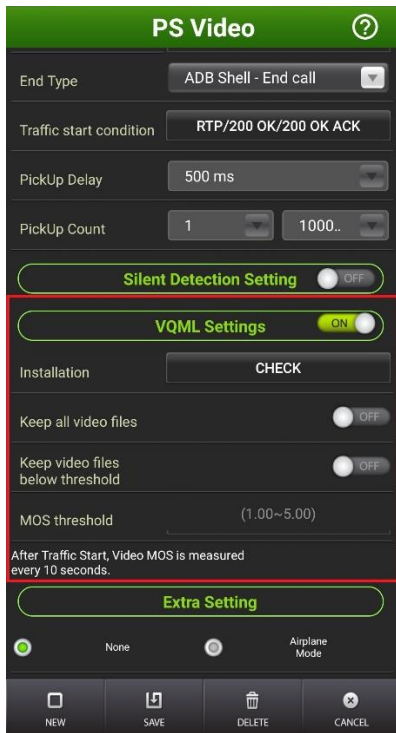


6. [PS Video]

If you have a VQML license, you can use the VQML option.

If you use the VQML option, you can measure the quality of the video (video call) displayed on the current screen and check the result as a MOS value.

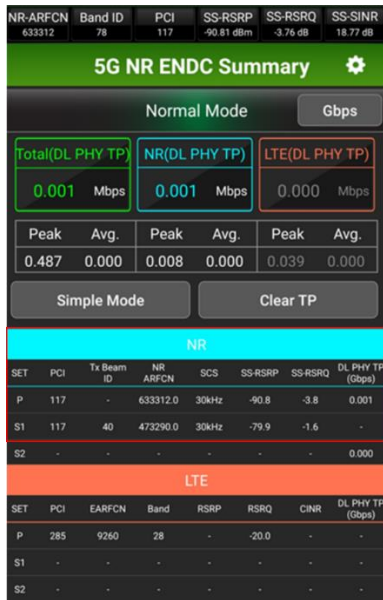
With the VQML option, the full screen of the video call is maintained even when entering Traffic for video quality measurement.



RF View

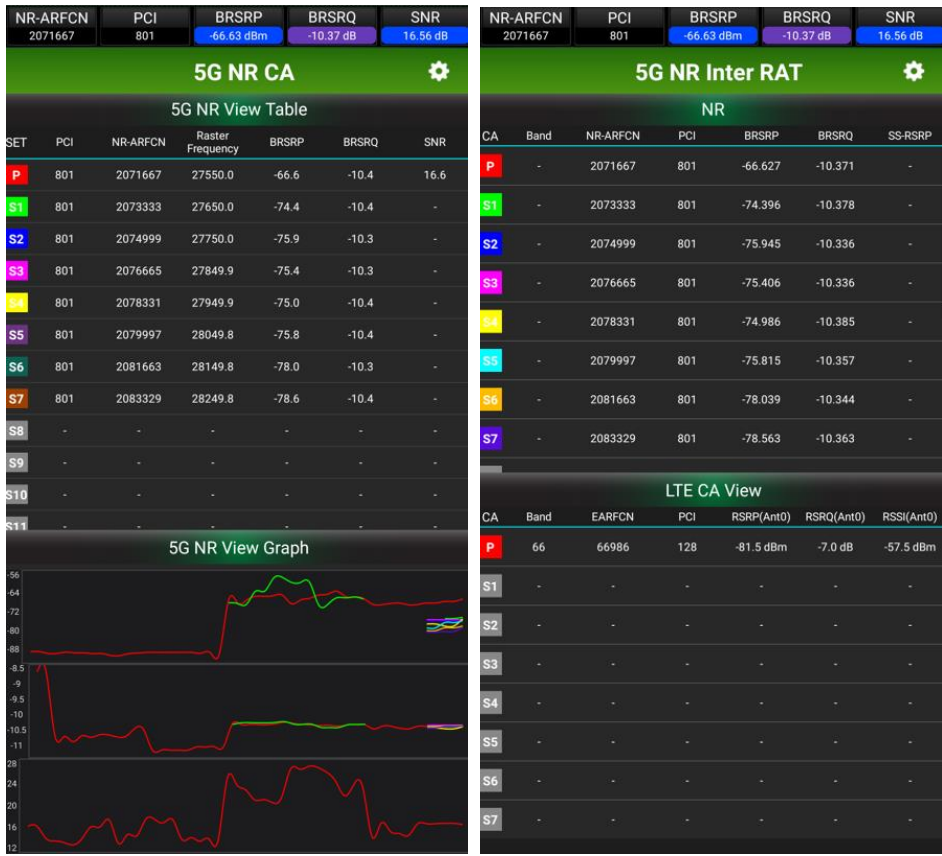
1. [5G NR ENDC Summary]

Samsung chipset device also supports 5G NR CA info in 5G NR ENDC Summary View.



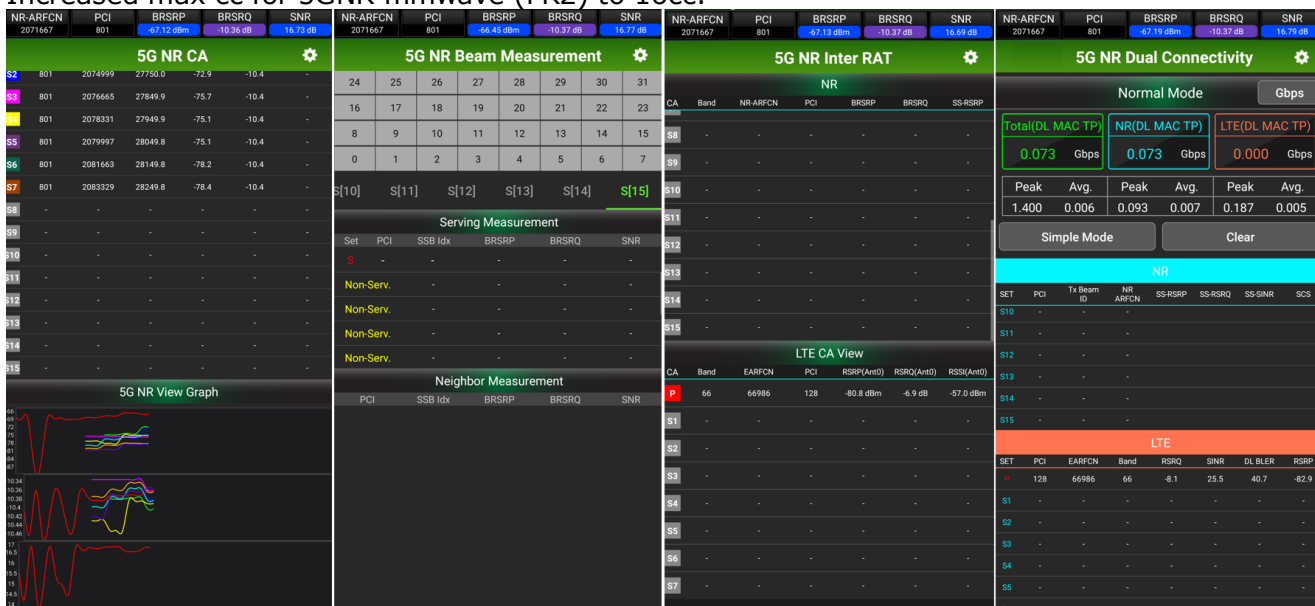
2. [5G NR CA Viewer][5G NR Inter RAT Viewer]

Changed 5G NR CA and 5G NR Inter RAT Viewer GUI.



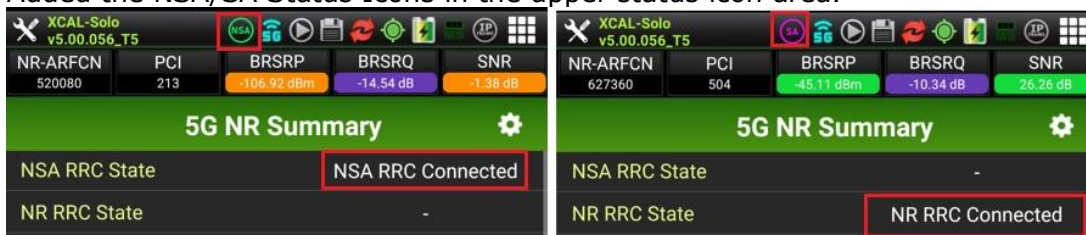
3. [CA display of each 5G NR Viewer]

Increased max cc for 5G NR mmwave (FR2) to 16cc.



4. [Upper Status Icon – NSA/SA Status Icon]

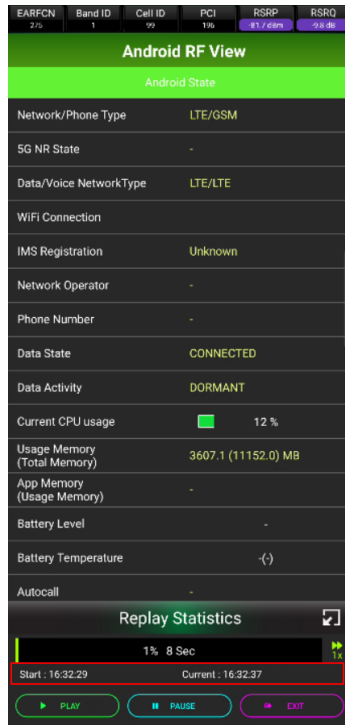
Added the NSA/SA Status Icons in the upper status icon area.



Function

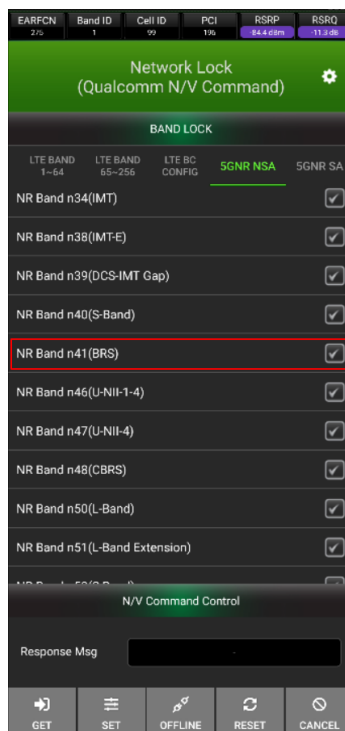
1. [Replay]

Add timestamp to Replay Statistics.



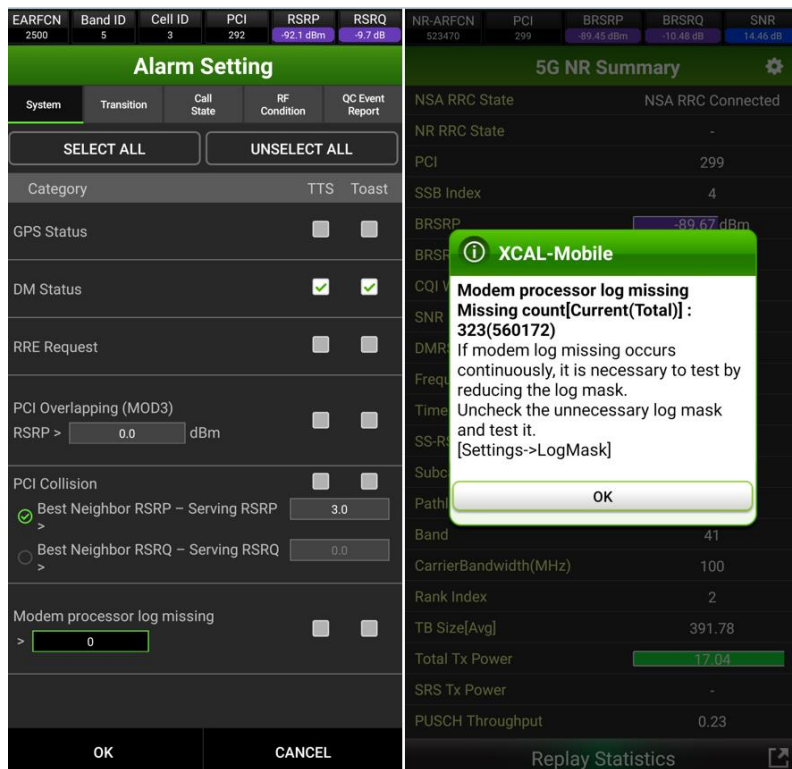
2. [Network Lock – Qualcomm N/V Command]

Add N41 band to 5G NR (NSA/SA)



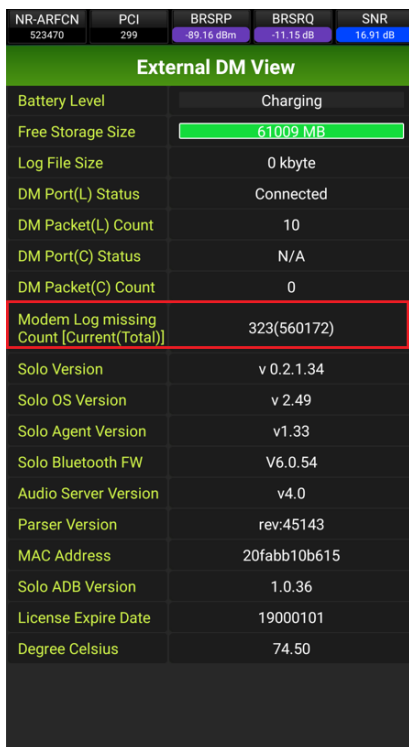
3. [QC Only][Alarm Manager]

Added Modem processor log missing Alarm to System Alarm.



4. [QC Only][XCAL-Solo Only][External DM View – Modem Log missing Count]

Added the Modem Log missing Count in External DM View



Known Issue

1. [Messenger Texting - Line]

Messenger type : There is a problem retrieving recipient information via Bluetooth on the line. There is a phenomenon that timeout occurs because text is not transmitted properly even though the relative ID information is normally applied in the scenario editing screen.

This issue will be fixed in the next release.



XCAL-Harmonizer 3.00.021

Release Date : 2022-04-04

Autocall

1. [Common]

Change Packet Capture Options.

80 → Partial[100Byte], 1500 → Full[1500Byte], QC ADPL → IP Header Only

RF View

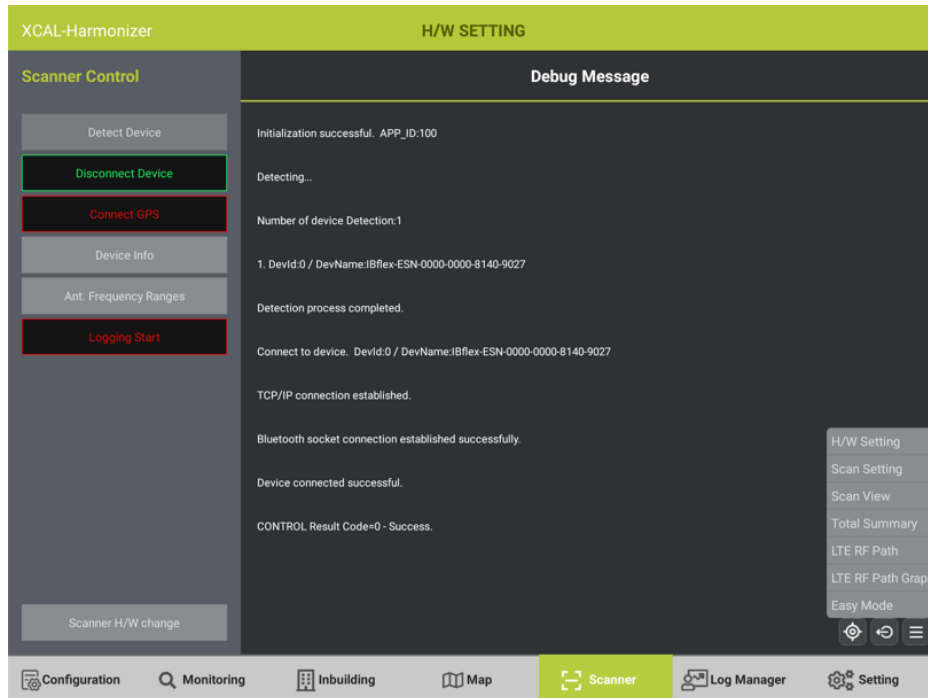
1. [Signal Graph]

RF Update that can be set in Parameter Setting

Scanner

1. [PCTEL Scanner]

Changed Harmonizer PCTEL Scanner UI applied



XCAL-Mobile/Solo 5.00.052

Release Date : 2022-02-23

Autocall

1. [Messenger Talk/Texting]

The Messenger App version that supports installation and execution on XCAL-Mobile/Solo has been changed as follows.

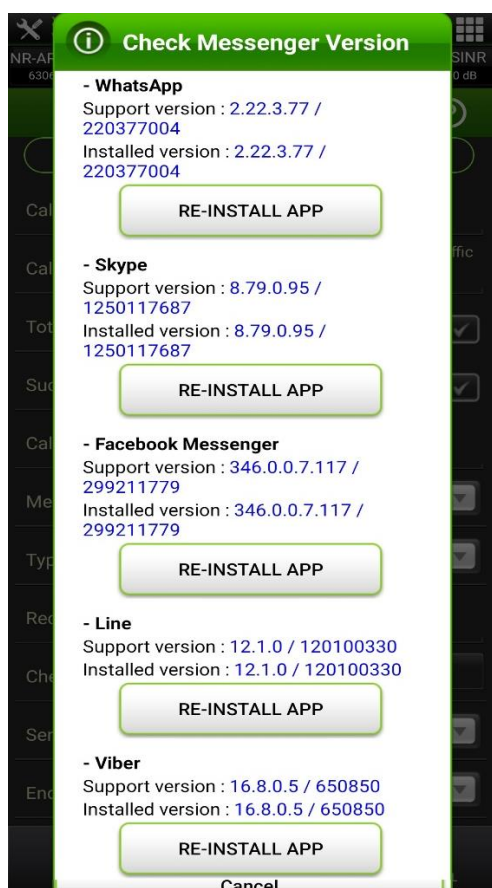
-Facebook : com.facebook.orca_346.0.0.7.117.apk

-Skype : com.skype.raider_8.79.0.95.apk

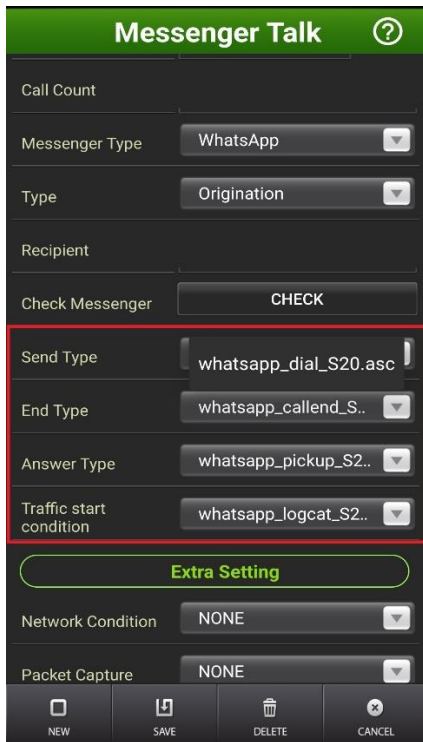
-Viber : com.viber.voip_16.8.0.5.apk

-WhatsApp : com.whatsapp_2.22.3.77.apk

-Line : jp.naver.line.android_12.1.0.apk

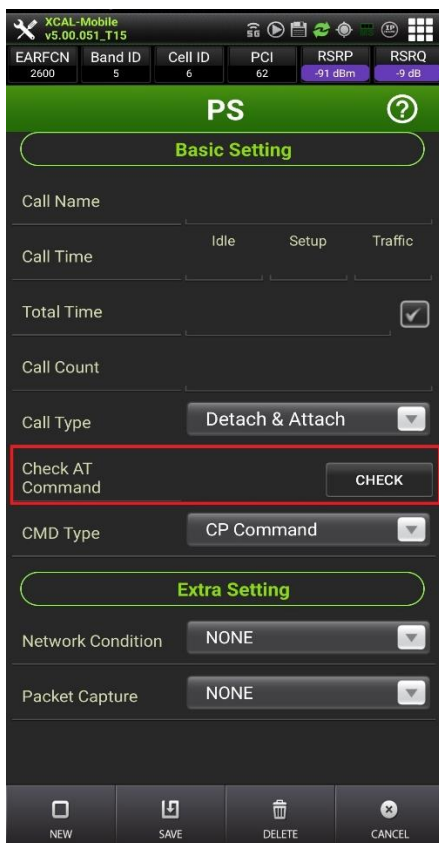


And, Changed to provide ADB Script samples based on Galaxy S20 5G devices.



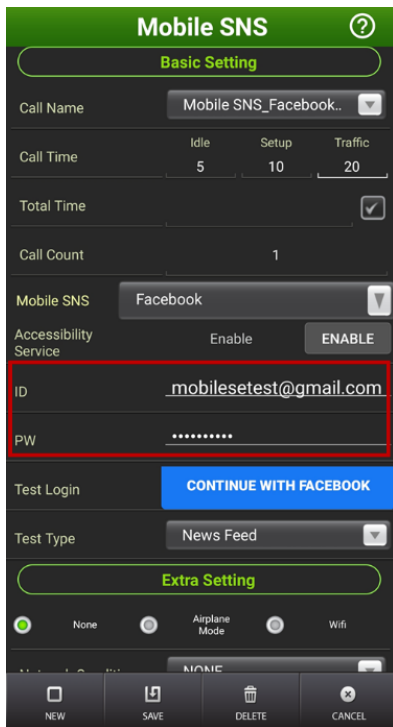
2. [PS Call]

The AT CMD check function, which was automatically executed when entering the scenario editing screen, was deleted and implemented as a manual button.



3. [Mobile SNS]

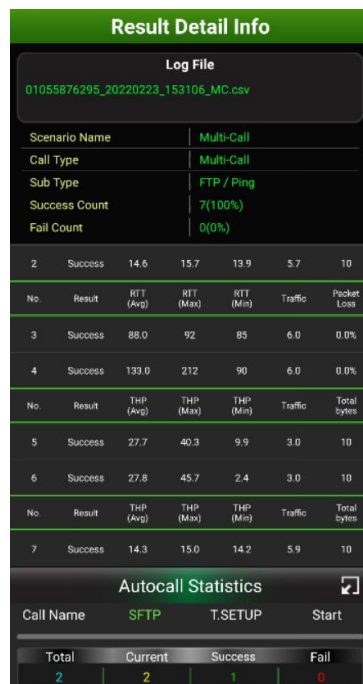
Added Facebook login information field to scenario settings.



4. [Multi-Call]

Added Multi-Call history function.

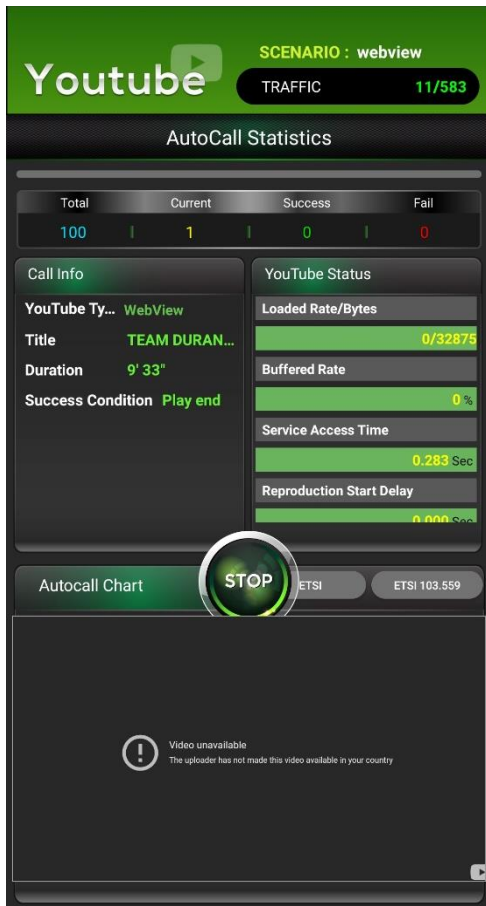
Call result records can be checked during multi-call measurement.



5. [YouTube - Automatic]

In the case of videos that cannot be played due to copyright or national restrictions, the API originally gives error code, but error code does not occur in recent cases.

In the case of non-playable videos, no buffering event occurs during the initial access period, so if buffering does not occur for 20 seconds, it has been applied to process Traffic Fail-Player Open Fail (36/103/0).



RF View

1. [5G NR ENDC Summary]

Samsung chipset device also supports 5G NR CA info in 5G NR ENDC Summary View.

The screenshot displays the '5G NR ENDC Summary' screen. At the top, it shows 'Normal Mode' and 'Gbps' units. Below this, there are three summary boxes for Total(DL PHY TP), NR(DL PHY TP), and LTE(DL PHY TP), all showing 0.001 Mbps. A table below provides Peak and Average values for these metrics. At the bottom, there are two tables: one for NR (5G) and one for LTE (4G), showing parameters like PCI, ARFCN, SCS, RSRP, RSRQ, and DL PHY TP for Primary (P), Secondary (S1), and Secondary (S2) cells.

NR-ARFCN	Band ID	PCI	SS-RSRP	SS-RSRQ	SS-SINR
633312	78	117	-90.81 dBm	-3.76 dB	18.77 dB

Total(DL PHY TP)		NR(DL PHY TP)		LTE(DL PHY TP)	
Peak	Avg.	Peak	Avg.	Peak	Avg.
0.487	0.000	0.008	0.000	0.039	0.000

SET	PCI	Tx Beam ID	NR ARFCN	SCS	SS-RSRP	SS-RSRQ	DL PHY TP (Gbps)
P	117	-	633312.0	30kHz	-90.8	-3.8	0.001
S1	117	40	473290.0	30kHz	-79.9	-1.6	-
S2	-	-	-	-	-	-	0.000

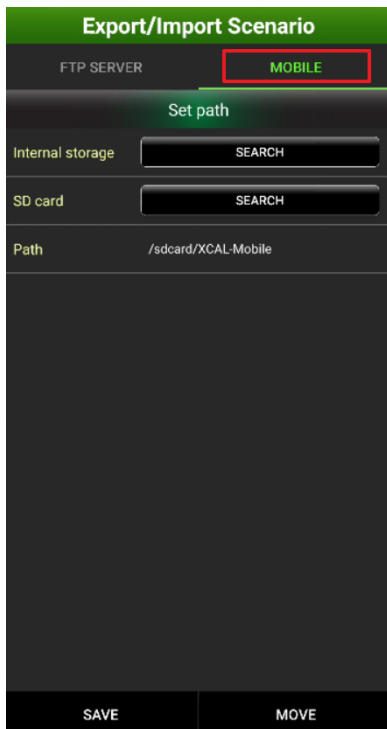
SET	PCI	EARFCN	Band	RSRP	RSRQ	CINR	DL PHY TP (Gbps)
P	285	9260	28	-	-20.0	-	-
S1	-	-	-	-	-	-	-
S2	-	-	-	-	-	-	-

Function

1. [Export/Import Scenario]

Added 'Mobile' Tab in the Export/Import Scenario.

It can import/export scenarios from the internal/external storage of smartphone.



2. [Master/Slave – Harmonizer Mode]

Added a popup when clicking Exit Mode in Harmonizer Mode on Master/Slave and added to automatically exit after 5 seconds.

3. [Accuver Rerpot]

- The values in the report are formatted as country locale.

XCAL-Harmonizer 3.00.016

Release Date : 2022-02-23

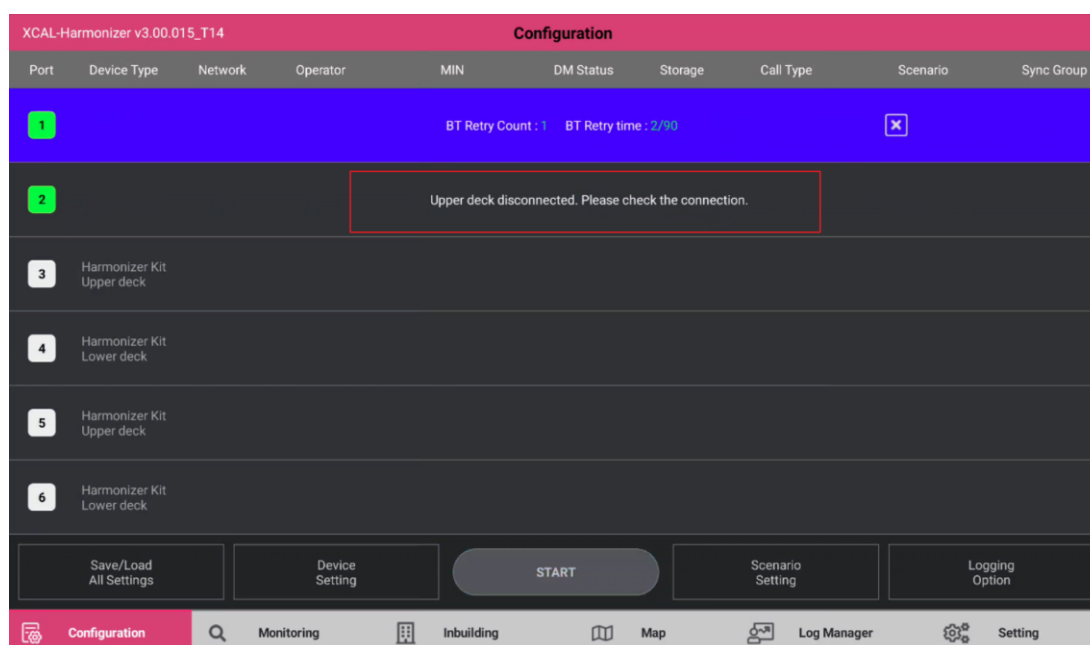
Autocall

1. [Voice/VoLTE]
Add Reject call function
2. [Common]
Add ADPL option in Packet Capture
This option is not applicable for non-Qualcomm chipsets.

Function

[Bluetooth Connection for Harmonizr Kit Lower deck]

Added an indicator to the lower deck when the Harmonizer Kit's upper deck loses Bluetooth connectivity.



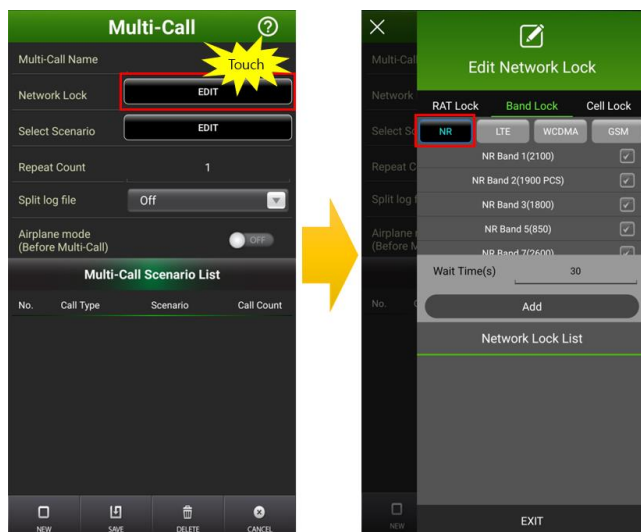
XCAL-Mobile/Solo 5.00.048

Release Date : 2022-01-28

Autocall

1. [Multi-Call]

- Added NR tab in 'Network Lock - Band Lock'.



2. [Voice/VoLTE – MOS Settings]

Added option to enable EMOS(Embedded MOS) function in XCAL-Solo.

- In order to use this option, kernel development of the device is required.



And to use the same sound source from PC DM, the AmEng, Japanese sound source is changed from 6s to 6.2s

Please delete the XCAL-Mobile folder installed in the existing device and install the version.

3. [FTP]

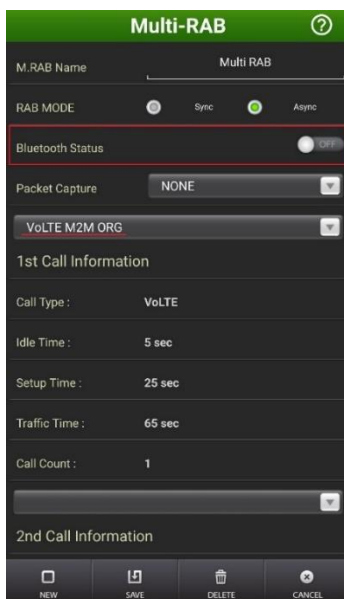
Added FTP Call info items.

- Pending / Interval / Threshold
- FTP NT / Ref.Thro / Start Time



4. [Multi-RAB]

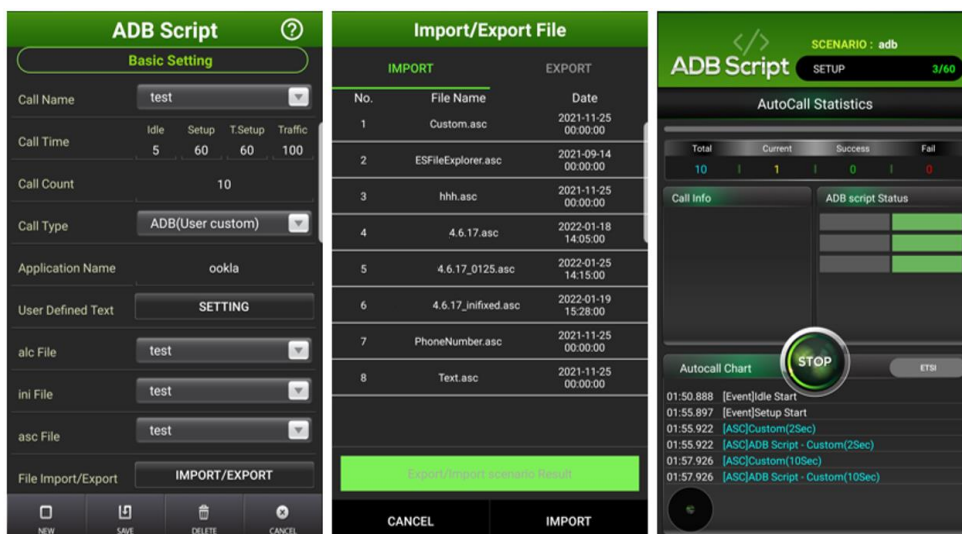
Added Bluetooth Status option, When Voice/VoLTE scenario with Call Type : MtoM ORG/MtoM TER is selected. Voice/VoLTE scenario with Call Type : MtoM ORG/MtoM TER can be used at the Multi RAB autocall, too.



5. [ADB Script – User Custom]

ADB Script – User Custom has been renewed. It can be used to test using external apps.

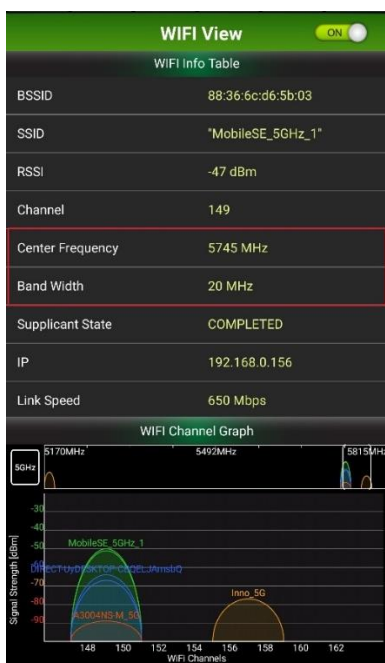
As before, it operates in a touch method using ADB Script (ASC file). The added function is to write a Logcat message for each Call Event in the ALC file and determine the event when the message occurs. And if you use an app whose result value remains as a file (e.g. CSV), you can extract a specific value from that file and send it to XCAL-Mobile.



RF View

1. [WiFi view]

Added display of center frequency and bandwidth information of connected Wi-Fi.



Function

1. [HiSi AOF Logging]

Added AOF logging of HiSiHSPA and HiSiGSM packet group KPIs.

1) HiSiHSPA Packet Group

- . HiSiWCDMA_BLER
- . HiSiWCDMA_CellInfo
- . HiSiHSPA_Link Stats
- . HiSiHSPA_RLC TP
- . HiSiHSUPA_Link Stats
- . HiSiWCDMA_RRCMSG

2) HiSiGSM Packet Group

- . HiSiGSM_ServCell
- . HiSiGSM_Ncell
- . HiSiGSM_Channel Config
- . HiSiGSM_RACH
- . HiSiGSM_Reselection Info
- . HiSiGSM_RR (developing)
- . HiSiGSM_SM/GMM (developing)
- . HiSiGSM_RLC/MAC (developing)

2. [Logmask – Qualcomm chipset]

Added 5G NR and LTE Logcodes in Qualcomm Logmask.

1) 5G NR-Common

- NR5G SDRIU Info(0x1C0D)
- NR5G MMW AFC(0x1C0F)
- NR5G PDET Status(0x1C13)
- NR5G RF Third Party PA(0x1C18)

2) 5G NR

- NR5G ML1 Searcher FW Cell Meas Confirmation(0xB96A)
- NR5G ML1 Searcher Measurement Database Update(0xB974)
- NR5G ML1 ASDIV EVAL DATA LOG(0xB99D)
- NR5G ML1 Service SRS Info Log(0xB996)
- NR5G ML1 Services SRS Info Log(0xB996)
- NR5G L2 TM Mode Log(0xB859)
- NR5G L2 Profiling(0xB85C)
- NR5G MAC Symbol Arbitration(0xB8A1)
- NR5G MAC Skip UL Tx(0xB8AE)
- NR5G MAC Link Latency(0xB8AF)

- NR5G MAC Tx IQ Capture(0xB8B0)
- NR5G MAC TX SHARING INFO LOG(0xB8B3)
- NR5G MAC Tx Pwr Dist Stats LOG(0xB8B5)
- NR5G MAC Metric Filter Result(0xB8B8)
- NR5G PDCP DL SRB PDU(0xB844)
- NR5G PDCP DL Debug PDU Log(0xB848)
- NR5G LL1 LOG ARD(0xB8D5)
- NR5G LL1 LOG Serving SNR(0xB8D8)
- NR5G ML1 Services SRS Info Log(0xB996)
- NR5G ML1 OA UAI INFO S(0xB999)
- NR5G ML1 Services Tune Info Log(0xB99A)
- NR5G L2UL DEFLATE COMP STATS(0xB878)
- NR5G L2UL DEFLATE COMP METRIC(0xB879)

3) LTE

- LTE LL1 Rx AGC Ext(0xB313)
- LTE ML1 GM Power Distribution(0xB1D7)
- LTE ML1 Connected Mode Measurement Configuration Enhanced
- LTE ML1 CPHY Timeline(0xB1FA)
- LTE ML1 DED CFG HO(0xB1FD)
- LTE ML1 Reason Change Data(0xB1FE)

4) Common

- IMS SIP Video Established(0x1905)
- IMS SIP Video Session EST Failed(0x1906)
- IMS SIP Video Upgrade Successful(0x1907)
- IMS ICS User Settings(0x1C41)
- IMS ICS PM Config(0x1C42)
- IMS ICS Network Conditions(0x1C43)
- IMS ICS TRM(0x1C44)
- IMS ICS NW Connectivity(0x1C45)
- IMS ICS Timer(0x1C46)
- IMS ICS Measurements(0x1C47)
- IMS ICS Call States(0x1C48)
- IMS ICS PDN State(0x1C49)
- IMS SIP Message Report(0x1C94)
- Multimode Generic SIM Driver Interface (0x1271)
- Generic SIM Toolkit Task(0x1272)
- UIM Powerup message(0x1903)
- QTV Streaming Rx Statistics(0x1164)
- QTV RTSP Describe(0x1165)

Proprietary & Confidential

- QTV RTSP Setup(0x1166)
- QTV RTSP Play (0x1167)
- QTV RTSP Pause(0x1168)
- QTV RTSP Teardown(0x1169)
- QTV RTSP Server Response(0x116A)
- QTV RTSP Options(0x11BB)
- QTV RTSP Get Parameter(0x11BC)
- QTV RTSP Set Parameter(0x11BD)
- QTV RTCP Receiver Report(0x116B)
- QTV RTCP Sender Report(0x116C)
- QTV RTCP Compound RR(0x11C4)
- QTV RTP Statistics(0x116D)
- QTV RTP Header Only(0x1170)
- QTV RTP Entire Packet(0x1171)
- QTV RTP Audio Samples(0x1172)
- QTV RTP Video Samples (All Layers)(0x1173)
- QTV RTP Text Samples(0x11B0)
- QTV Player Timed Text(0x11B1)
- QTV Frame Decode Information(0x11B2)
- QTV Frame Render Information(0x11B3)
- QTV A/V Sync Information(0x11B4)
- QTV Pseudo Streaming 2 Statistics(0x11B6)
- QTV Pseudo Streaming 2 Get Request(0x11B7)
- QTV Pseudo Streaming 2 Get Response Header(0x11B8)
- QTV CMX Audio Input Data(0x11BA)
- QTV Video Bitstream(0x11BE)
- QTV ARM Video Decode Statistics(0x11BF)
- QTV DSP Slice Buffer(0x11C0)
- QTV Command Logging(0x11C1)
- QTV Video Frame Decode Information(0x11C3)
- QTV PCR Drift Rate(0x11C8)
- Modem Voice Services UL Vocoder Packet(0x1914)
- Modem Voice Services DL Vocoder Packet(0x1915)
- X Scale YUV Frame(0x13CC)
- X Scale CRC Frame(0x13CD)
- CGPS Clock Report(0x136F)
- CGPS Position Report(0x1370)
- CGPS Measurement Report(0x1371)
- CGPS RF Status(0x1372)

Proprietary & Confidential

- CGPS Prescribed Dwell Result(0x1374)
- CGPS PDSM Position Report Callback(0x137C)
- CGPS PDSM Extended Status Position Report(0x1383)
- CGPS PDSM Extended Status NMEA Report(0x1384)
- CGPS PDSM Extended Status Measurement Report(0x1385)
- CGPS Report Server TX Packet(0x1386)
- CGPS Report Server RX Packet(0x1387)
- CGPS IQ Report(0x138A)
- CGPS ME Job Info(0x13BA)
- CGPS ME SV Lists(0x13BB)
- GPS DCME Srch Job Completed(0x13CF)
- CGPS Diag Successful Fix Count(0x1455)
- CGPS MC Tracking DPO Status(0x1456)
- CGPS WB FFT Stats(0x1487)
- CGPS Slow Clock Calibration Report(0x1488)
- GNSS Position Report(0x1476)
- GNSS GPS Measurement Report(0x1477)
- GNSS Clock Report(0x1478)
- GNSS CD DB Report(0x147B)
- GNSS PRX RF HW Status Report(0x147E)
- GNSS DRX RF HW Status Report(0x147F)
- GNSS Glonass Measurement Report(0x1480)
- GNSS GPS HBW RXD Measurement(0x1481)
- GNSS PDSM Position Report Callback(0x1482)
- GNSS PDSM PD Event Callback(0x1490)
- GNSS OEMDRE Measurement Report(0x14DE)
- GNSS OEMDRE Position Report(0x14E0)
- GNSS OEMDRE SVPoly Report(0x14E1)
- GNSS OEMDRE Sync(0x14E2)
- EMBMS Service Layer Session(0x1757)
- EMBMS Service Layer Flute(0x1758)
- EMBMS Service Layer Local HTTP Server(0x1759)
- EMBMS Service Layer Bootstrap(0x175A)
- EMBMS Service Layer Service Discovery(0x175B)
- EMBMS Service Layer I2(0x175C)
- EMBMS Service Layer I1 Common(0x175D)
- EMBMS Service Layer I1 Streaming(0x175E)
- EMBMS Service Layer Streaming(0x175F)
- EMBMS Service Layer I1 File Download(0x1760)

Proprietary & Confidential

- EMBMS Service Layer Session/File Schedule(0x1761)
- EMBMS Service Layer File Repair(0x1762)
- EMBMS Service Layer Reception Reporting(0x1763)
- EMBMS Service Layer MSP Common(0x1764)
- EMBMS Service Layer USD Data(0x1765)
- EMBMS Configuration(0x1766)
- EMBMS FD Store(0x1767)
- EMBMS Generic Dump(0x1768)
- Temperature Monitor Log(0x14D8)
- WLAN Offload Statistics(0x1930)
- WLAN FW MCC Utilization(0x1931)
- WLAN FW BEACON TX Statistics(0x1932)
- WLAN FW BEACON RX Statistics(0x1933)
- WLAN FW SCAN Report(0x1934)
- WLAN Channel Cache(0x1935)
- WLAN RSSI Update(0x1936)
- WLAN Candidate List(0x1937)
- WLAN FW DFS Allowed Channels(0x1938)
- WLAN FW TDLS Statistics(0x1939)
- WLAN FW RTT Measurement Request(0x193A)
- WLAN FW RTT Response(0x193B)
- WLAN HALPHY RSSI Report(0x193C)
- WLAN HALPHY PHY Stats Report(0x193D)
- WLAN HALPHY Chan Info Report(0x193E)
- WLAN HALPHY TX Power Report(0x193F)
- WLAN HALPHY CAL Time Report(0x1940)
- WLAN OTA Association RX(0x1941)
- WLAN OTA Beacon RX(0x1942)
- WLAN OTA Beacon TX(0x1943)
- WLAN OTA TX Probe Request(0x1944)
- WLAN OTA RX Probe Request(0x1945)
- WLAN OTA RX Probe Response(0x1946)
- WLAN OTA TX Probe Response(0x1947)
- WLAN OTA TX Action Frame(0x1948)
- WLAN OTA RX Action Frame(0x1949)
- WLAN OTA TX(0x194C)
- WLAN OTA RX(0x194D)
- WLAN WDI IPA TX State(0x19A2)
- WLAN WDI IPA RX State(0x19A3)

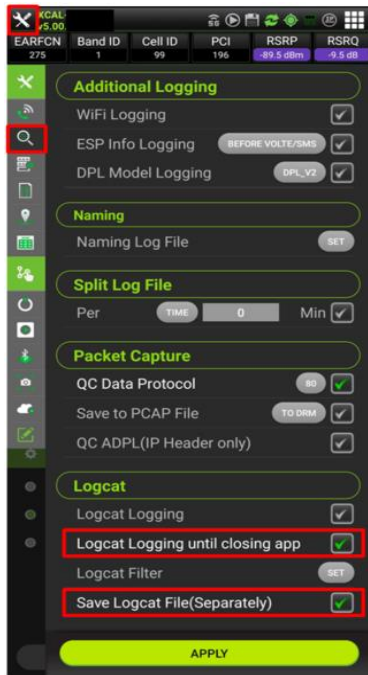
- WLAN PA Muting(0x1A0C)
- WLAN FW P2P NOA Change(0x1A0F)
- WLAN FW Keepalive Beaconing Device(0x1A10)
- WLAN FW Keepalive Client Device(0x1A11)
- WLAN IP Header Info(0x1A12)
- CM Phone Event(0x1273)
- CM Subscription Event(0x14C2)
- Call Manager Serving System MSIM Event(0x184E)
- Call Manager Stats Event(0x1991)
- CM Call Event(0x12C1)
- CM SS Event(0x134F)
- Bluetooth FTM Log(0x117C)
- DS Flow Control Trigger(0x19EF)
- Transceiver Resource Manager(TRM)(0x12E8)

5) Event Report_5G NR

- 3241, EVENT_NR5G_RRC_UL_MSG_V2
- 3252, EVENT_DS_3GPP_NR5G_NSA_SWITCH
- 3269, EVENT_NR5G_RRC_IRAT_RESEL_FROM_NR_START
- 3270, EVENT_NR5G_RRC_IRAT_HO_FROM_NR_START
- 3271, EVENT_NR5G_RRC_IRAT_REDIR_FROM_NR_START
- 3272, EVENT_NR5G_RRC_IRAT_REDIR_FROM_NR_END
- 3273, EVENT_NR5G_RRC_IRAT_RESEL_FROM_NR_END
- 3274, EVENT_NR5G_RRC_IRAT_HO_FROM_NR_FAILURE
- 3275, EVENT_NR5G_RRC_IRAT_HO_FROM_NR_END
- 3276, EVENT_LTE_RRC_IOT_RADIO_LINK_FAILURE_STAT
- 3279, EVENT_NR5G_RRC_MCG_FAILURE
- 3281, EVENT_NR5G_RRC_HO_FAILURE_V3
- 3297, EVENT_NR5G_RRC_HO_FAILURE_V4
- 3299, EVENT_NR5G_RRC_UL_MSG_MEAS_REPORT_V4
- 3308, EVENT_NR5G_RRC_CELL_RESEL_SUCCESS
- 3315, EVENT_NR5G_RRC_CELL_RESEL_SUCCESS_V2
- 3324, EVENT_NR5G_RRC_RRC_MCG_FAILURE_V2
- 3325, EVENT_NR5G_RRC_HO_FAILURE_V5
- 3326, EVENT_NR5G_RRC_SCG_FAILURE_V2
- 3213, EVENT_NR5G_MM5G_TIMER_START
- 3214, EVENT_NR5G_MM5G_TIMER_STOP
- 3215, EVENT_NR5G_MM5G_TIMER_EXPIRY

3. [Logcat]

Added 'Logcat Logging until closing app' option. If the option is enabled, logcat logging continues from the start of auto call/manual logging until the app is closed.



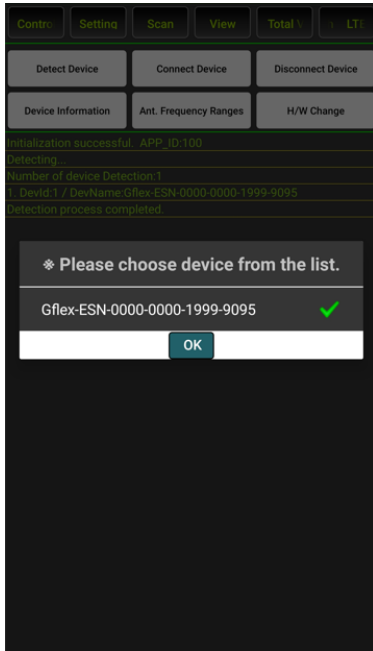
4. [WiFi info Logging]

Fixed an error where Wi-Fi throughput was not logged in Mobile Total Throughput.

Scanner

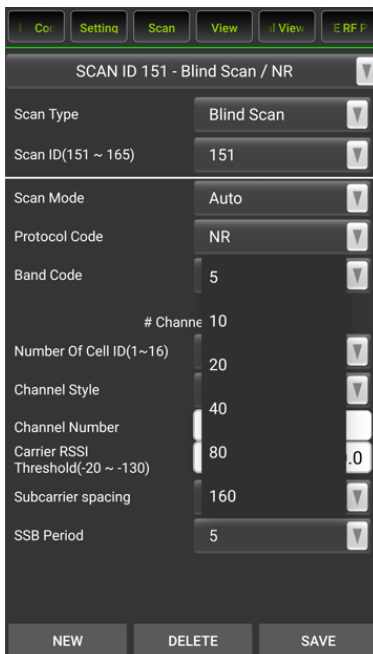
1. [PCTEL Scanner]

Updated SeeGullConnect-3.1.0.0.apk and support G-Flex scanner.



2. [PCTEL Scanner]

Added "SSB Period" option in Blind Scan /NR (G-Flex scanner only)



Known Issue

1. [YouTube - Fixed]

Due to a library problem used to extract and download URLs, download speed is measured very low and buffering is occurring a lot when testing YouTube Fixed mode.

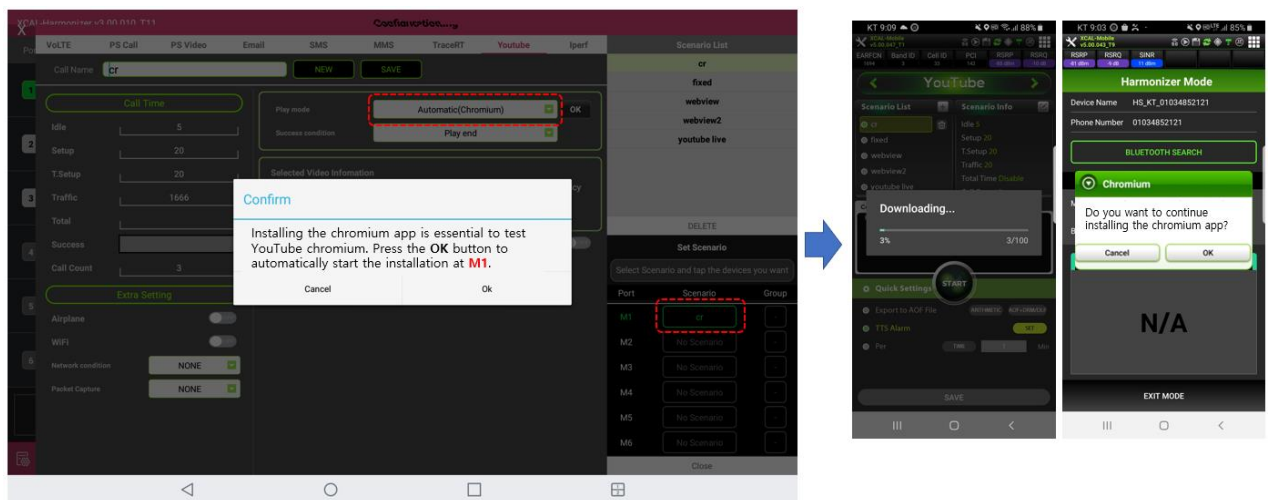
XCAL-Harmonizer 3.00.013

Release Date : 2022-01-28

Autocall

1. [YouTube – Automatic(Chromium)]

Automatic(Chromium) mode has been added to YouTube. If the Chromium app is not installed on your smartphone(Mobile/Solo), create a pop-up to help install it automatically.



2. [Voice/VoLTE]

Added Send DTMF option.

RF View

1. [RF Summary]

Fixed the error that 5G NR network is not shown in Monitoring.

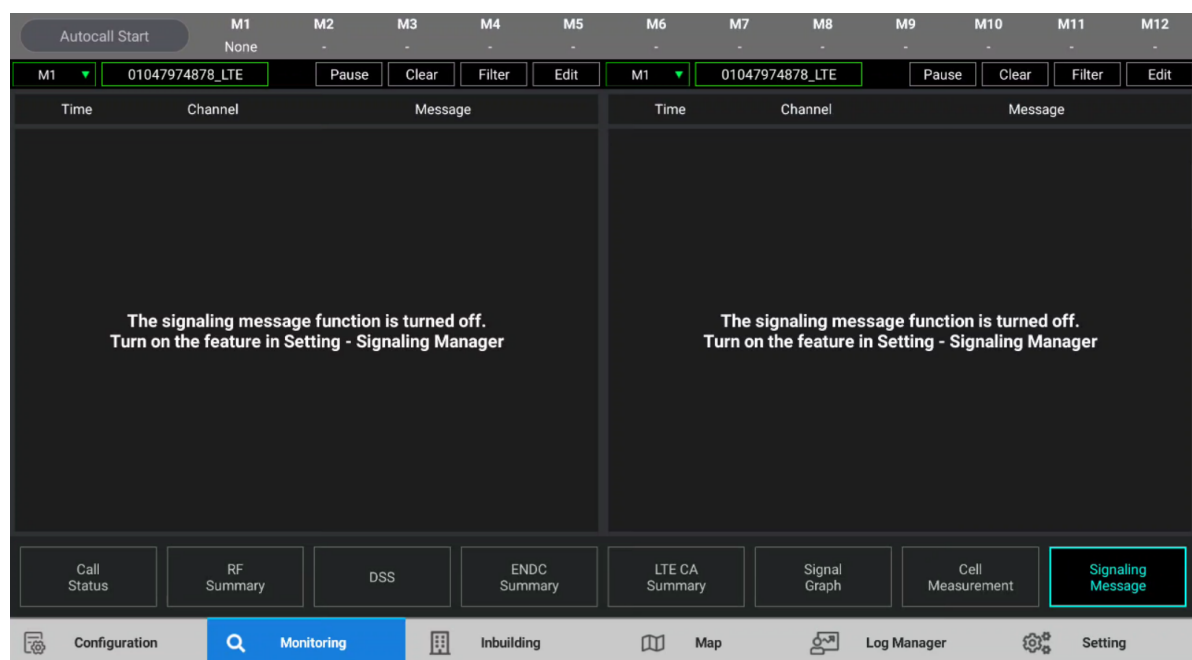
- [XM-348] Unable see the KPIs in monitoring tab for 5G test

2. [Signaling Message]

The following text is displayed when the Signaling Message option for each port is turned off in the Signaling Manager settings.

"The signaling message function is turned off.

Turn on the feature in Setting - Signaling Manager"



3. [Call Status – Call Status Info.]

In the VoLTE CSV file, the values of Delay and P.Loss are rounded to one decimal place.

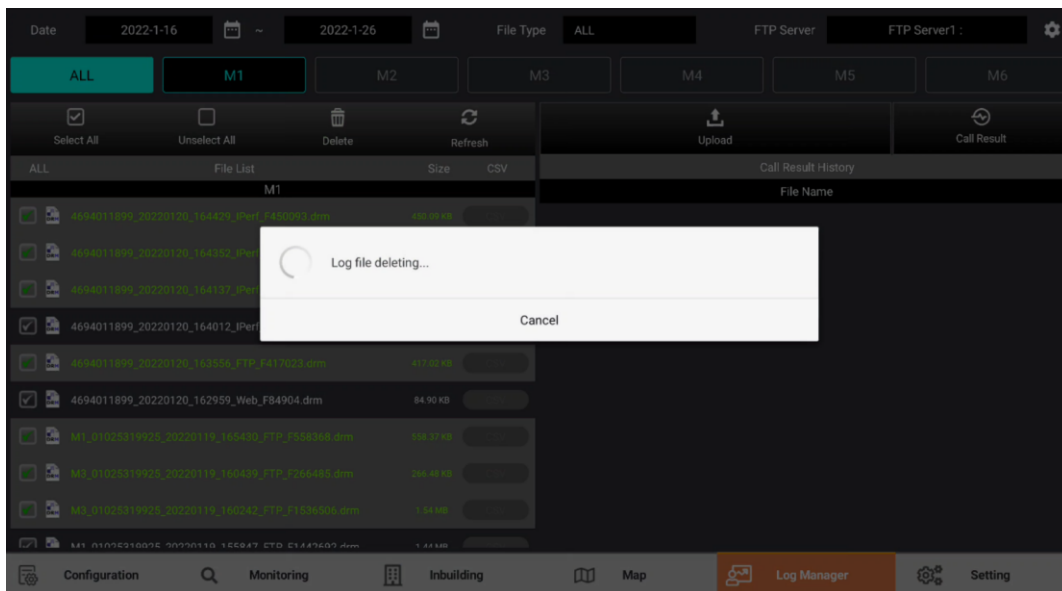
Function

1. [Logging Option]

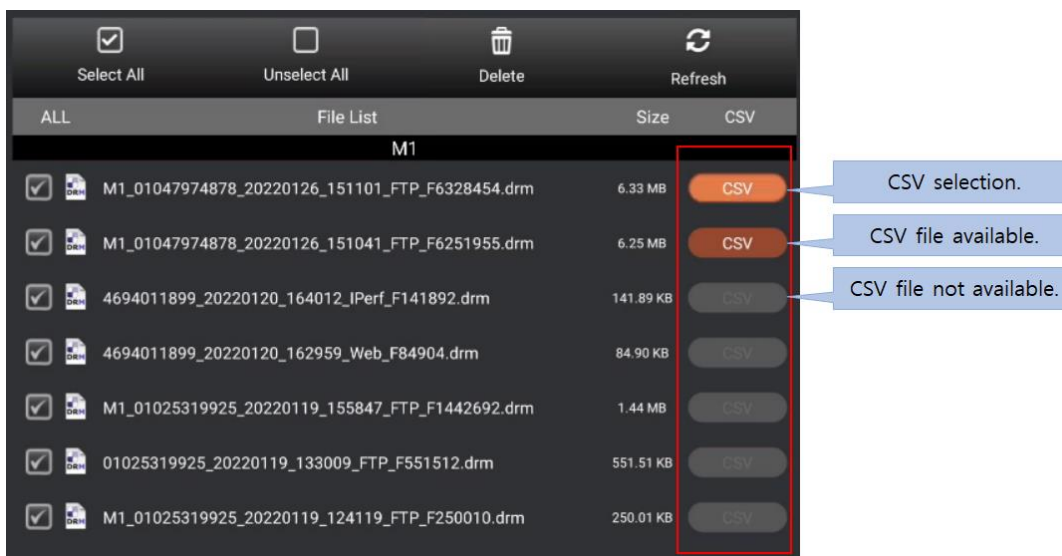
Added Naming log File (Scenario Name) option. When this option is turned on and Autocall measurements are made, the log file is appended with the scenario name.
2. [Auto AUTOCALL stop]

Changed the default value to ON.
If any of the connected mobiles stop Autocall, all mobiles are stopped.
3. [Log Manager]

Added a function to delete matching csv files when deleting log files.
Added a popup when deleting log files.



Changed CSV UI.



Proprietary & Confidential

If you cancel during Refreshing and Deleting, a loading popup has been added until the operation is completed.

The screenshot displays a software interface with a dark theme. At the top, there are date pickers for '2022-1-16' and '2022-1-26', a 'File Type' dropdown set to 'ALL', and an 'FTP Server' dropdown set to 'FTP Server1:'. Below this is a navigation bar with tabs labeled 'ALL', 'M1', 'M2', 'M3', 'M4', 'M5', and 'M6'. The 'ALL' tab is selected. A toolbar contains icons for 'Select All', 'Unselect All', 'Delete', 'Refresh', 'Upload', and 'Call Result'. The main area is divided into two sections: 'File List' and 'Call Result History'. The 'File List' section shows a table of files with columns for 'File List', 'Size', and 'CSV'. The 'Call Result History' section shows a table with columns for 'Scenario', 'Time', 'Result', 'THP(Avg)', 'THP(Max)', 'THP(Min)', 'Traffic', and 'Total bytes'. A white popup with a circular progress indicator and the text 'In Progressing...' is overlaid on the file list. The bottom navigation bar includes icons and labels for 'Configuration', 'Monitoring', 'Inbuilding', 'Map', 'Log Manager', and 'Setting'.

File List	Size	CSV
M1_01047974878_20220126_151101_FTP_F6328454.drm	6.33 MB	CSV
M1_01047974878_20220126_151041...		
4694011899_20220120_164012_IPerf...		
4694011899_20220120_162959_Web_F84904.drm	84.90 KB	
M1_01025319925_20220119_155847_FTP_F1442692.drm	1.44 MB	
01025319925_20220119_133009_FTP_F551512.drm	551.51 KB	
M1_01025319925_20220119_124119_FTP_F250010.drm	250.01 KB	

Scenario	Time	Result	THP(Avg)	THP(Max)	THP(Min)	Traffic	Total bytes
01047974878_20220126_151101.csv							
FTP DL	15:11:04	Timeout	521.07	615268.4	112173.6	10.0	652700160

XCAL-Mobile/Solo 5.00.041

Release Date : 2021-11-15

Autocall

1. [MOS Settings]

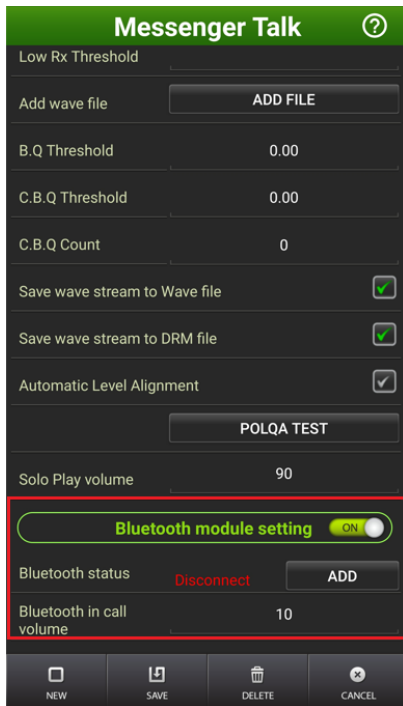
The POLQA Library Version used to measure MOS values has been updated from 3.13 to 3.16.

2. [POLQA V3]

Changed the POLQA library version for POLQA V3 from 3.13 to 3.16.



3. [Messenger Talk]



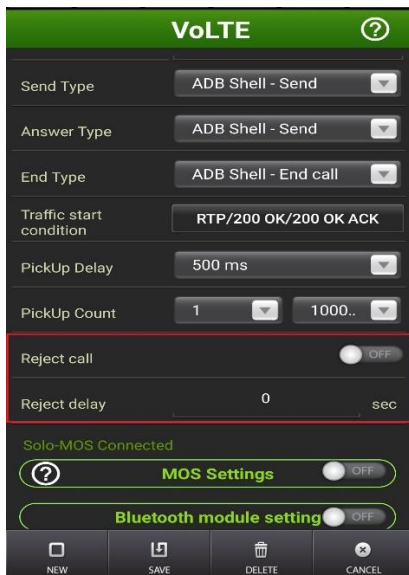
Added "Bluetooth module setting" options.

It is possible to measure the MOS value by interworking with the Bluetooth module device for terminals that do not support audio jack.

4. [Voice / VoLTE]

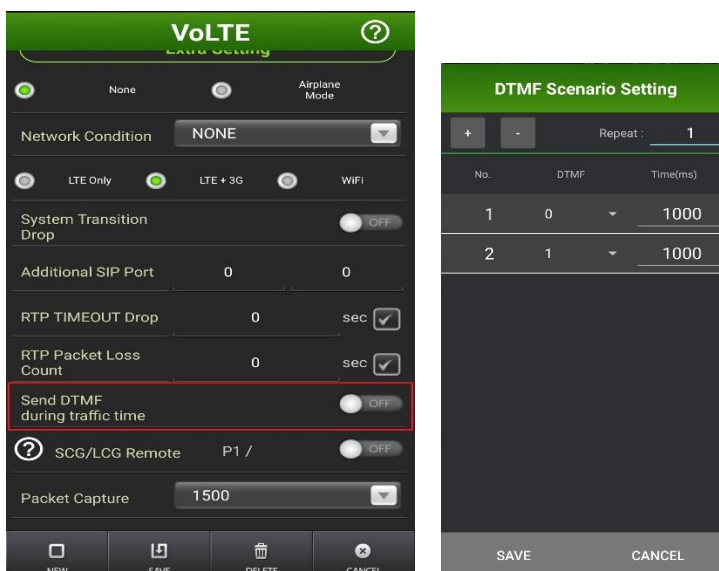
When Call Type : Termination or MtoM TER, "Reject call" option appear in UI.

If you receive a call, it waits for the desired time and automatically hangs up.



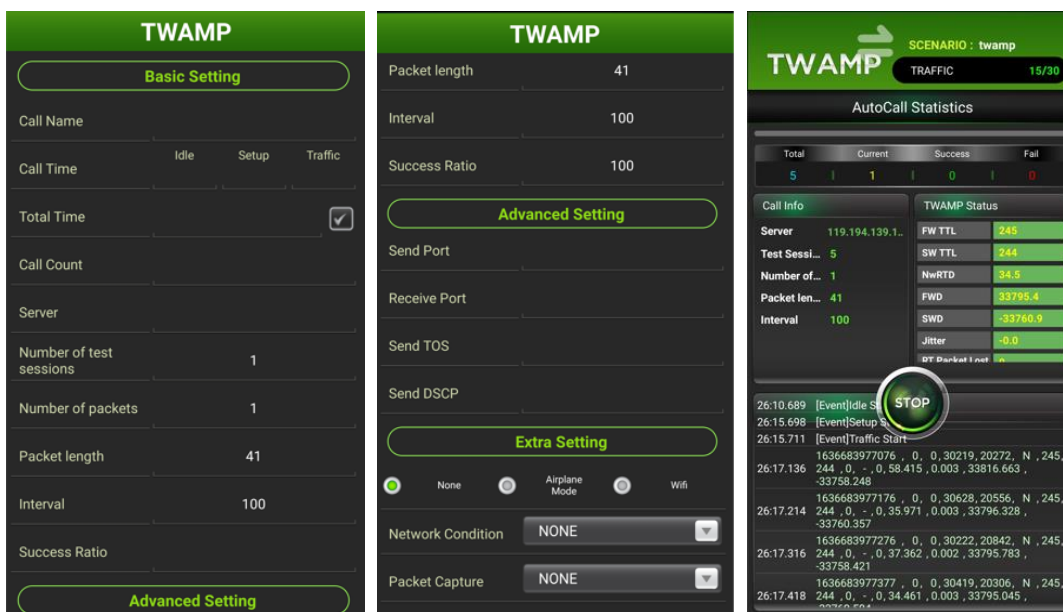
Added "Send DTMF during traffic time".

When traffic starts, DTMF is generated according to the set DTMF scenario.



The old "Get a phone number" option is removed. Automatically acquires the opposite phone number when connected via Bluetooth.

5. [TWAMP]



Added TWAMP(Two-Way Active Measurement Protocol) call. TWAMP call can measure the round-trip performance of an IP network. Please refer to the manual for more information.
*It needs TWAMP call license.

6. [SMS]

Supports concatenated SMS.

XCAL-Mobile can allow to send messages longer than 160 characters. If the message is greater than 160 characters, the phone automatically divides the longer message into multiple (until 5 concatenated SMS messages), shorter SMS messages which are then

transmitted to the recipient separately.

User can enter the message up to 1530bytes. (GSM 7bits/UCS-2)

*It depends on mobile network operator.

7. [PS Video]

The old "Get a phone number" option is removed. Automatically acquires the opposite phone number when connected via Bluetooth.

8. [YouTube - Fixed]

Fixed the problem that the URL cannot be imported when searching for a video and is processed as "Select another video" on YouTube Fixed.

9. [RCS-Link]

Added RCS-Link in the Messenger Talk autocall.

RF View

1. [Android RF View]

When connecting to WiFi, changed the Network Type from Unknown Type to the currently connected Network Type

Parameter	Value
EARFCN	2850
Band ID	7 FDD
Cell ID	199
PCI	-
RSRP	-88
RSRQ	-14

Android RF View

Android State

Network/Phone Type	LTE/GSM
5G NR State	-
Data/Voice NetworkType	LTE/LTE
WiFi Connection	Connected
IMS Registration	Unknown
Network Operator	SKTelecom
Phone Number	01036492537
Data State	DISCONNECTED

2. [HiSilicon – LTE Summary][Only XCAL-Mobile]

Added the RF KPIs in LTE Summary

[SINR/DL PRB Num(Avg)/DL PRB Num(Inc0)/UL PRB Num(Avg)UL PRB Num(Inc0)]

Proprietary & Confidential

EARFCN	Band ID	PCI	RSRP	RSRQ	SINR	NR-ARFCN	PCI	SS-RSRP	SS-RSRQ	SS-SINR	NR-ARFCN	PCI	SS-RSRP	SS-RSRQ	SS-SINR		
3050	7	84	-92.1 dBm	-15.8 dB	5 dBm	504990	162	-80.06 dBm	-11.00 dB	11.50 dB	628590	802	-81.88 dBm	-11.06 dB	7.69 dB		
LTE Summary						LTE Summary					LTE Summary						
PCI	84					DL					UL						
RSRP	-89.63					PDSCH BLER	0.00					PUSCH BLER	0.0				
RSRQ	-15.13					DL MCS CW0(Avg)	1.00					UL MCS(Avg)	16.2				
RSSI	-53.63					DL MCS CW1(Avg)	1.00					UL MCS Mod. Rate (Q/16/64)	25.0/75.0/0.0				
SINR	4					DL MCS CW0 Mod. Rate (Q/16/64/256)	100.0/0.0/0.0/0.0					UL PRB Num(Avg)	10.80				
PUSCH Tx Power	19.00					DL MCS CW1 Mod. Rate (Q/16/64/256)	100.0/0.0/0.0/0.0					UL PRB Num(Inc0)	0.50				
PUCCH Tx Power	-3.00					DL PRB Num(Avg)	17.78					PUSCH Throughput	0.039				
PRACH Tx Power	7.00					DL PRB Num(Inc0)	0.16					UL MAC Throughput	0.131				
SRS Tx Power	19.00					PDSCH Throughput	0.028					UL RLC Throughput	0.011				
Wideband RI	1					DL MAC Throughput	0.042					UL PDCP Throughput	0.010				
Wideband CQI(CW0)	9.00																

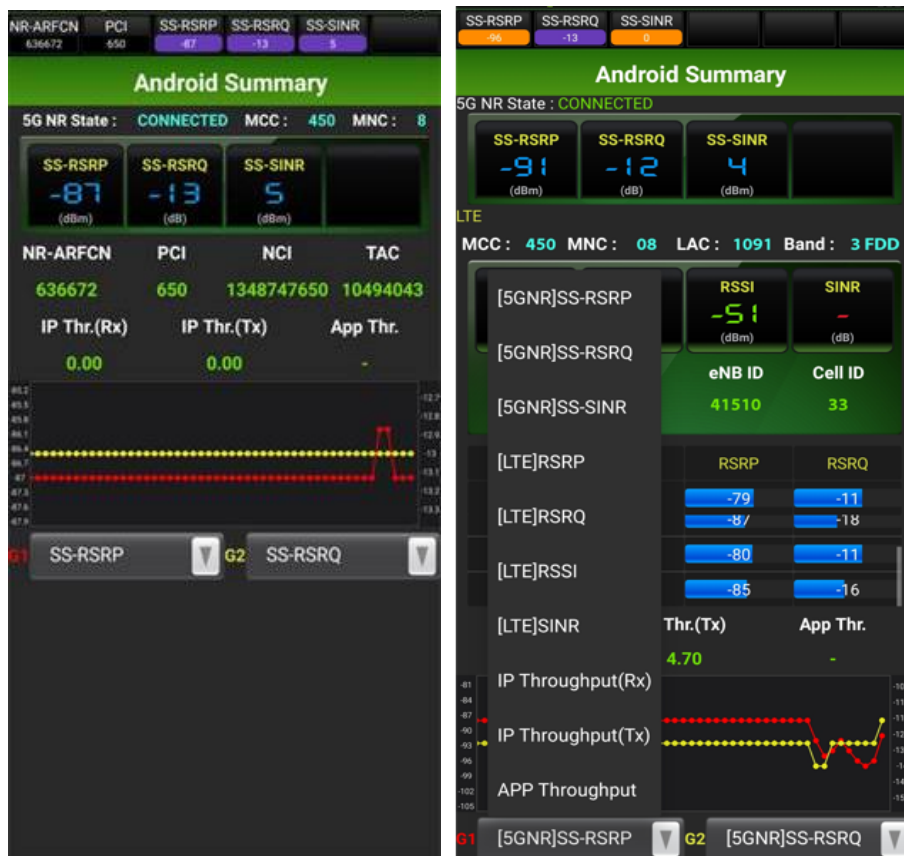
3. [HiSilicon – 3G Summary] [Only XCAL-Mobile]

Added the Tx Power KPI in 3G Summary

UARFCN	PSC	RSCP	EcNo	RSSI
10836	126	-73.13 dBm	-6.88 dB	-66.25 dBm
3G Summary				
Frequency	10836			
Best Active PSC	126			
Best Active Ec/No	-8.13 dB			
Best Active RSCP	-73.00 dBm			
Best Active RSSI	-64.88 dBm			
BLER Total	100.00			
Transport CH Count	2			
Support HSDPA/HSUPA	HSUPA			
Tx Power	-71.0			

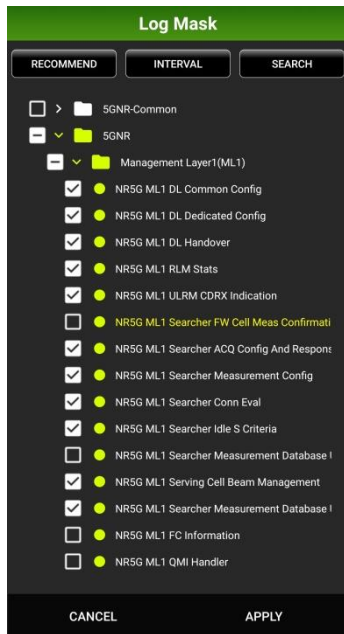
4. [Android Summary][Only XCAL-Mobile Lite]

Added the 5G RF KPI according SA and NSA Mode in Android Summary Menu



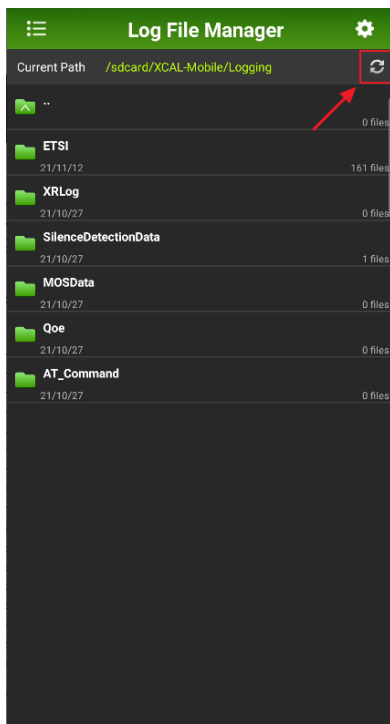
Function

1. [Packet Capture]
 - [Qualcomm Chipset] – [Settings] – [Log Data] – [Packet capture], Deleted 'IP Frame' option.
2. [Manual Logging in Background]
 - [Settings] – [Control] – [Manual Logging in Background], Deleted 'Manual Logging in Background' option.
3. [Logmask – Qualcomm chipset]
 - Added 5G NR Logcodes in Qualcomm Logmask.
 - NR5G ML1 Searcher FW Cell Meas Confirmation(0xB96A)
 - NR5G MAC Skip UL Tx(0xB8AE)
 - NR5G MAC Metric Filter Result(0xB8B8)
 - NR5G PDCP DL Debug PDU Log(0xB848)
 - NR5G ML1 Services Tune Info Log(0xB99A)



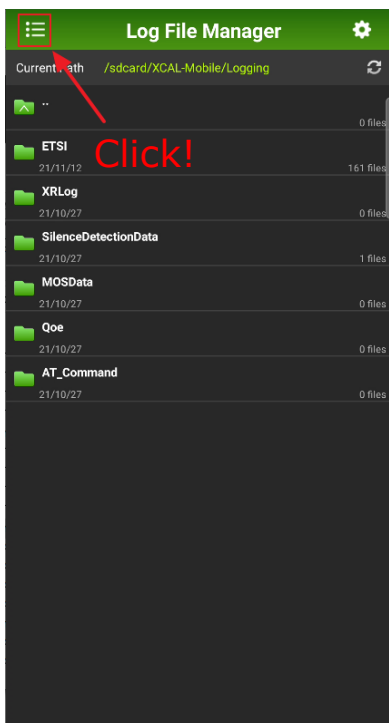
4. [Log File Manager]

Added 'Refresh' button in Log File Manager screen.



5. [Log File Manager]

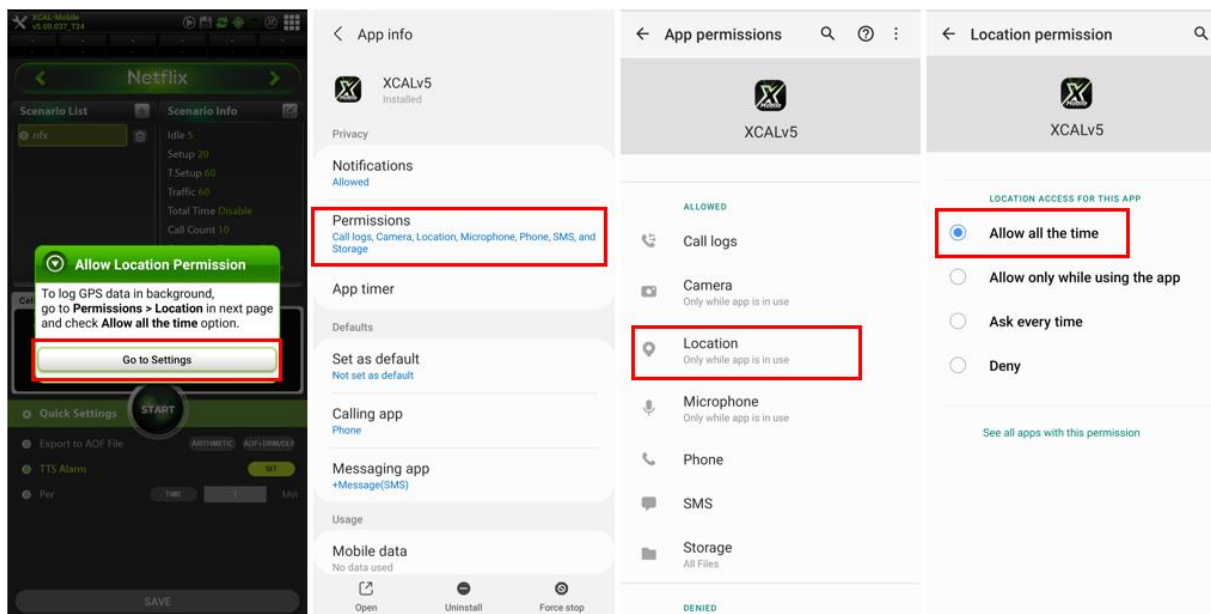
Added Filter item in Log File Manager Setting. (All / DRMMP)



6. [Allow Location Permission]

From Android version 11, to collect GPS data in the background, you have to select the 'Allow all the time' option on the settings screen.

When you run the app, a pop-up appears that induces the option selection screen, and when you select an option, the pop-up will no longer occur.



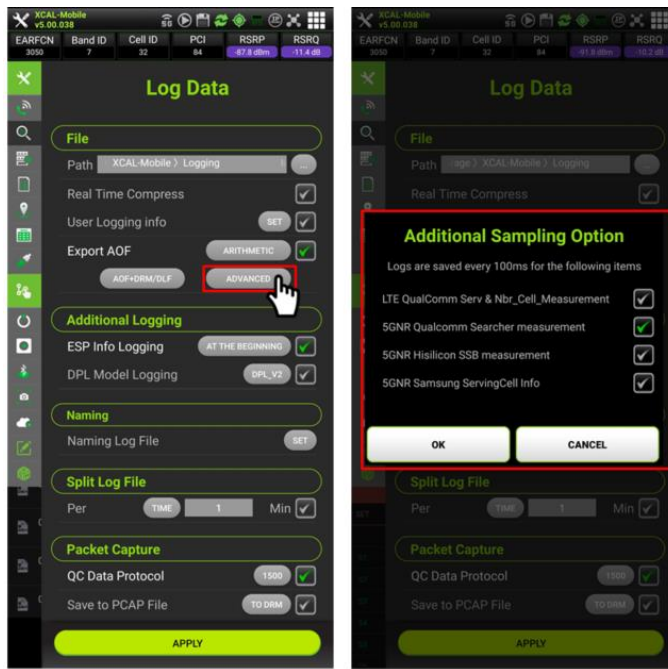
7. [Map]

Added Sector ID in Map - Site Information.

8. [Export AOF]

[Settings] – [Log Data] – [Export AOF],

Added 'ADVANCED' option. The default sampling rate of AOF is 1000ms. By using the Additional Sampling Option, you can set to log specific Packet Group(s) in 100ms.



XCAL-Mobile/Solo 5.00.035

Release Date : 2021-08-19

Autocall

1. [MOS Settings]

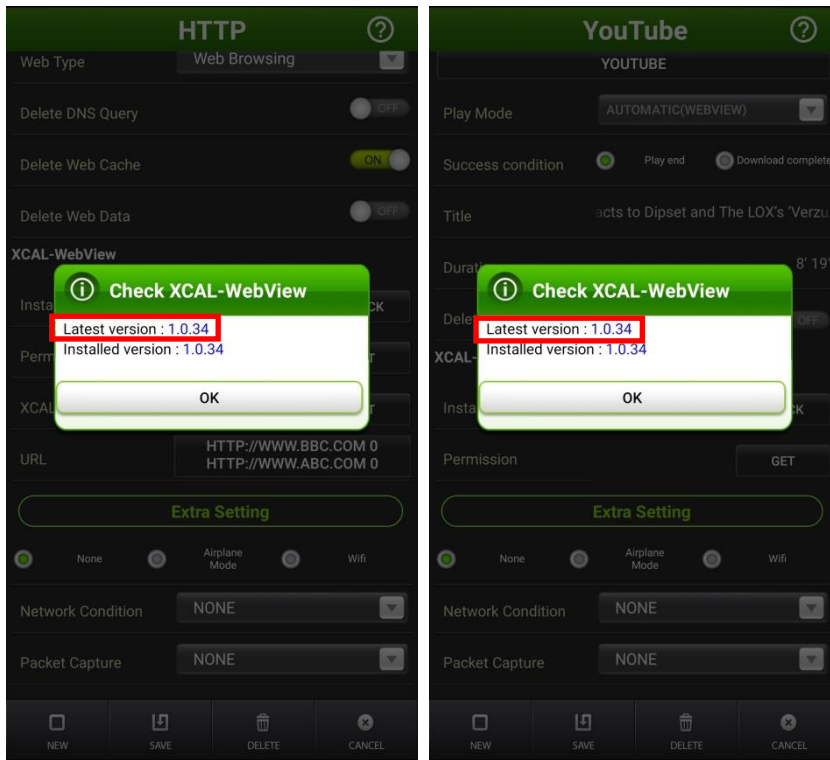
The POLQA Library Version used to measure MOS values has been updated from 3.13 to 3.16.

MOS value measurement is supported by autocalls such as Voice, VoLTE, PS Video, and ARS Incoming.



2. [HTTP / Youtube]

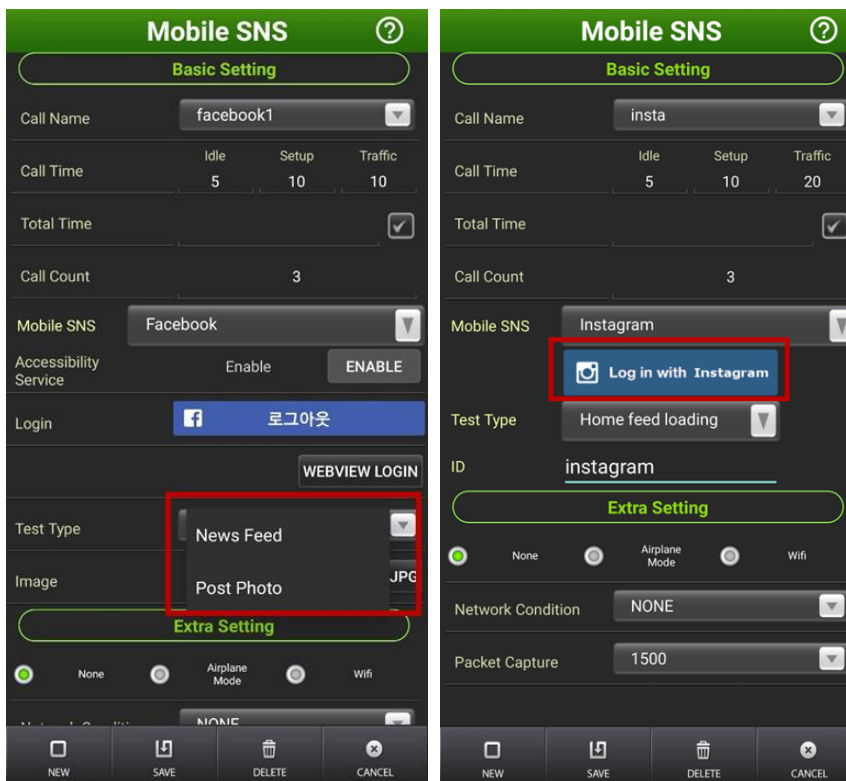
The support version of the XCAL-Webview application has been updated to 1.0.34.



3. [Mobile SNS]

Added News Feed Test Type for Facebook.

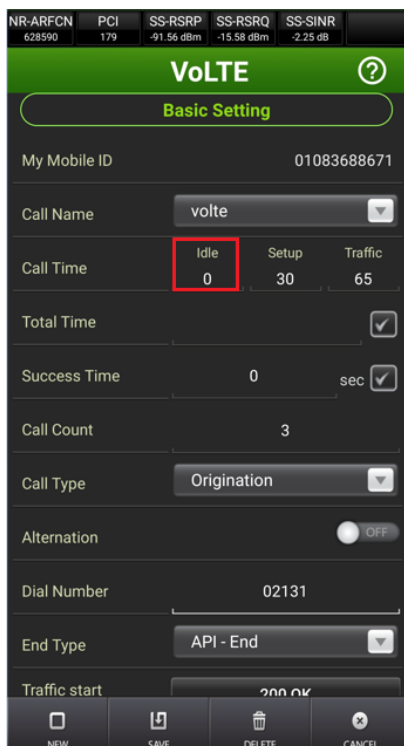
Instagram requires login process.



4. [All Auto Call Types]

Changed that 0 seconds can be input for idle time of all Auto Call types.

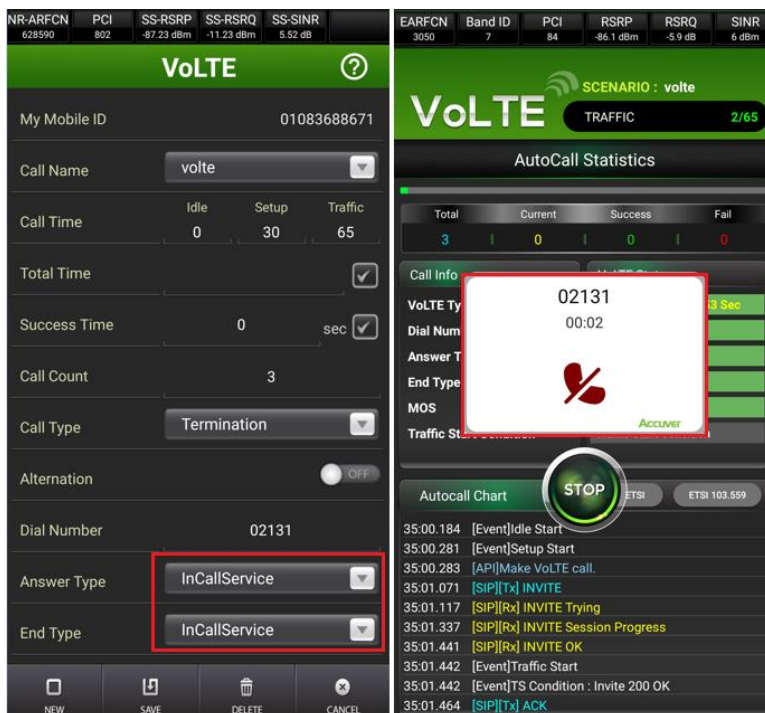
If you input 0 seconds, you cannot skip the idle section completely, but you can reduce the idle section by about 100ms.



5. [XCAL-Mobile] - [HiSilicon Chipset] - [Voice][VoLTE]

Added InCallService API for voice call control.

When setting InCallService, a separate call log UI has been added because the default call app must be set to XCAL.

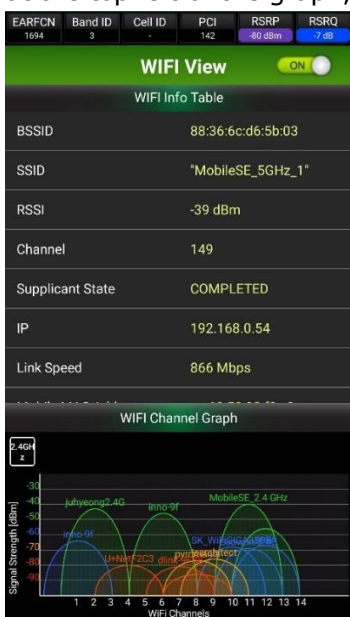


RF View

1. [WIFI View]

The 'Detail State' item is not displayed, because it is no longer used after API Level 29(Android ver 10).

And 5GHz band Wifi graph display function has been added. If you touch the '2.4GHz' button at the top left of the graph, the Wifi signal in the 5GHz band is displayed.

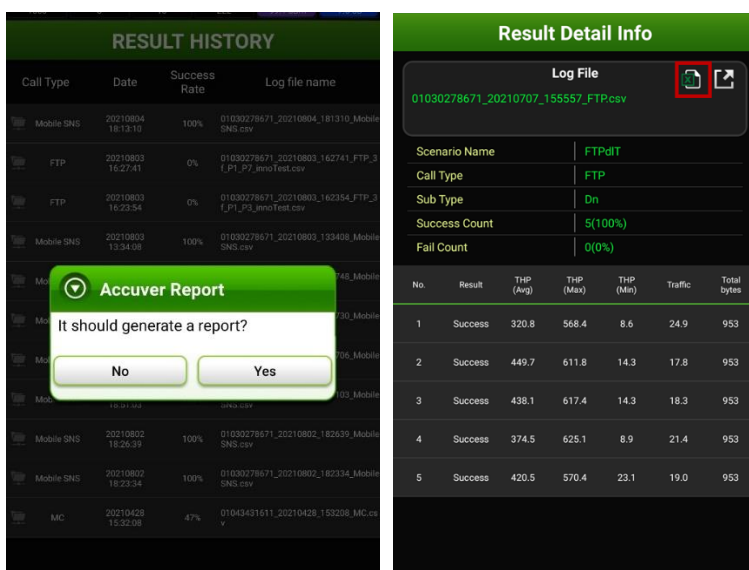


2. [Report - Accuver Report]

If Accuver Report Function is activated, Accuver Report can be generated by using the popup menu that appears after autocall ends.

Accuver Report can be also generated using existing AOF LogData.

If the AOF file exists in the Result Detail Info of Result History, an icon appears, and you can create an Accuver Report by touching the icon.



Function

1. [Packet Capture]
[Qualcomm Chipset] – [Settings] – [Log Data] – [Packet capture],
Deleted 'IP Frame' option.

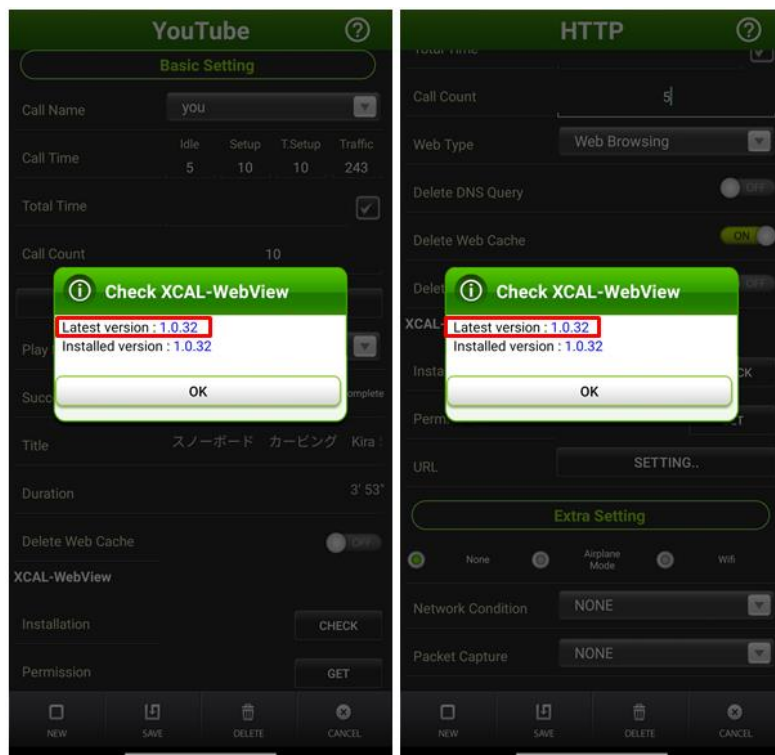
XCAL-Mobile/Solo 5.00.034

Release Date : 2021-07-21

Autocall

1. [HTTP / Youtube]

The support version of the XCAL-Webview application has been updated to 1.0.32.



2. [PS Call]

Added the Traffic Star time and Event of PS Call



RF View

1. [Qualcomm Chipset]

1) 5G NR RACH

Change the display format of RACH type/result/preamble to string

5G NR RACH	
RACH Type	UL_GRANT
RACH Result	SUCCESS
RACH Config	206
RACH Preamble format	FORMAT_C2
RACH Root sequence	64
RACH Preamble count	1
RACH Preamble backoffs	0
RACH Preamble successes	1
RACH CR failures	0
RACH CR decoding failures	0
RACH Pathloss	106.000
RACH Preamble index	-
RACH SSB ID	0
RACH RA-RNTI	219

2. [Android RF View]

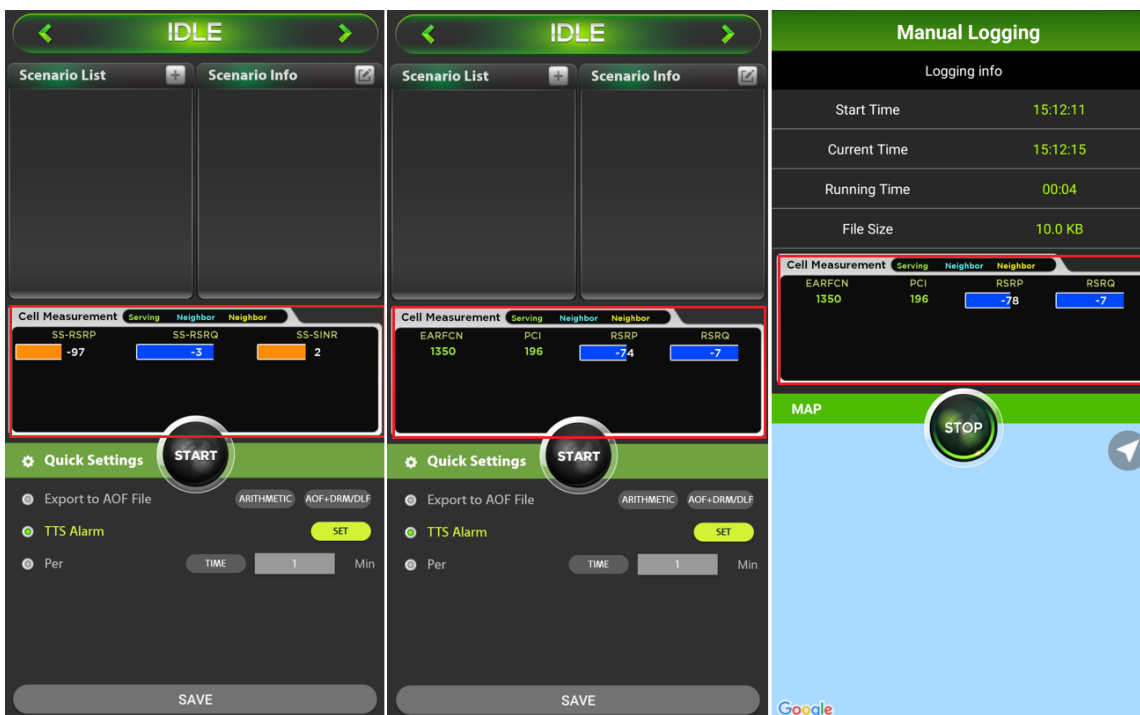
Added the Battery Temperature KPI in Android State of Android RF View

Android RF View	
Android State	
Network/Phone Type	UNKNOWN/GSM
5G NR State	CONNECTED
Data/Voice NetworkType	UNKNOWN/UNKNOWN
WiFi Connection	Connected
IMS Registration	Unknown
Network Operator	
Phone Number	unknown_number
Data State	DISCONNECTED
Data Activity	NONE
Current CPU usage	65 %
Usage Memory (Total Memory)	3062.4 (7294.9) MB
App Memory (Usage Memory)	492.6 (3062.4) MB
Battery Level	82 %
Battery Temperature	29.80°C(85.64°F)

3. [Only XCAL-Mobile Lite Version, Cell Measurement]

Added the Android RF KPI to Cell Measurement Menu on the main screen.

Added the Android RF KPI to Cell Measurement Menu on Manual Logging screen.



4. [Android RF Bar]

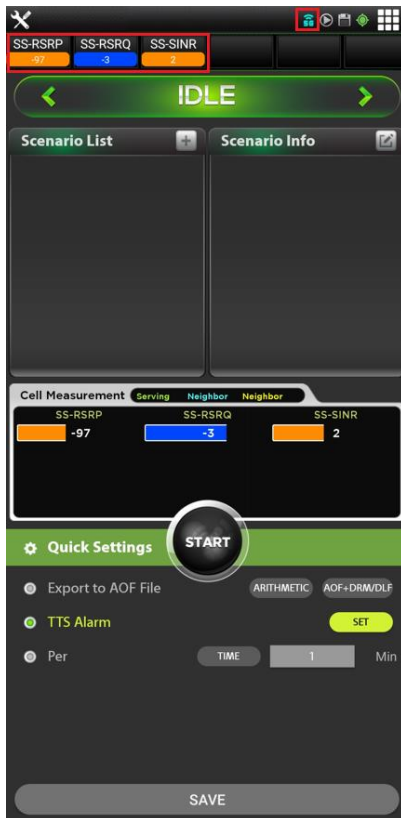
Added an icon to display the 5G connection status in the upper annunciator.

(If the 5G NR State KPI in Android RF Viewer is Connected, it will be activated)

Added the 5G Android RF KPI(SS-RSRP, SS-RSRQ, SS-SINR) to the top RF Bar

(If the 5G NR State KPI in Android RF Viewer is Connected, it will be displayed)

Option Location : Control – Application – RF Bar – Android

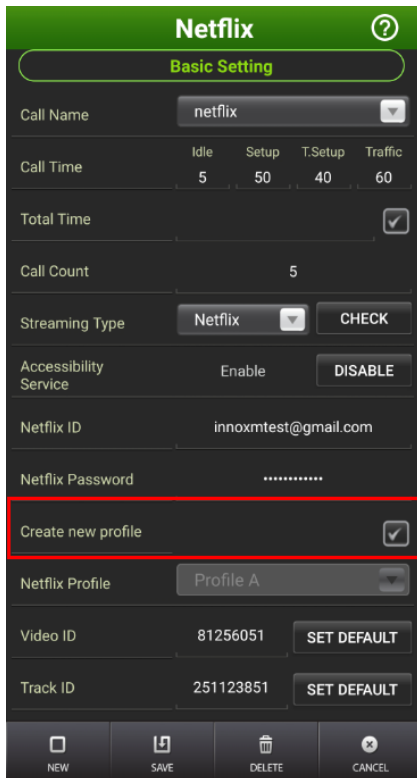


5. [Netflix]

Added Create new profile option in Netflix.

Previously, there was only a method of deleting and re-creating profiles.

With the development of the Create new profile option, it works the same way when you check the option, and when you uncheck the option, it continues to measure the profile with Profile A without deleting & creating it.

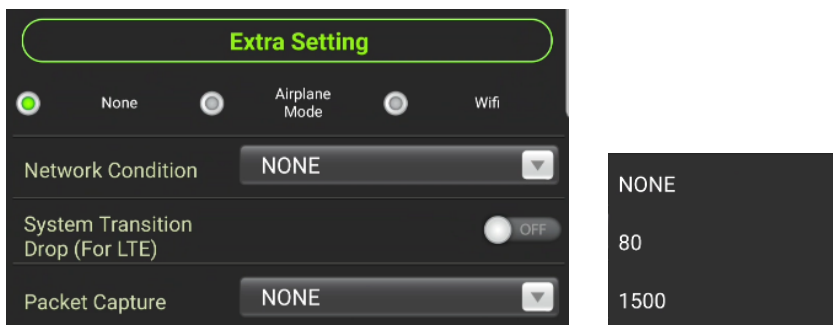


Function

1. [Packet Capture]

Added '**Packet Capture option**' in each Autocall scenario option.

It can be set up among None/80/1500 except VoLTE/PS Video call(None/1500).



2. [Log data-packet capture]

Deleted the '**Auto**' item in packet capture option.

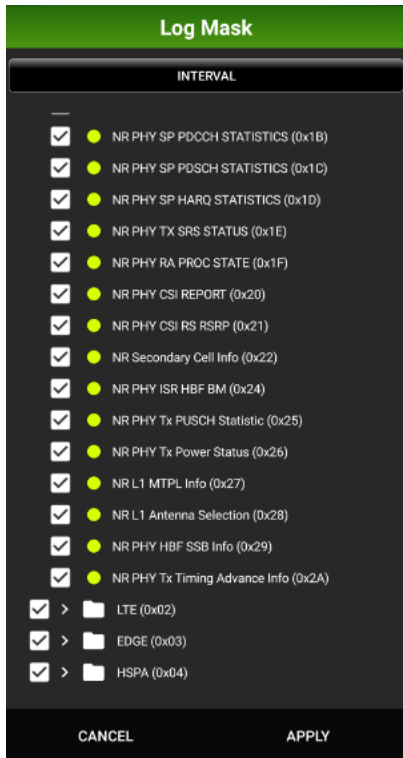
3. [Inbuilding]

Fixed that Full storage notification not popping up in inbuilding manual logging.

4. [Logmask – Samsung chipset]

Added NR PHY HBF SSB Info (Message ID: 0x0029) and NR PHY Tx Timing Advance Info

(Message ID: 0x002A) log codes. Both log codes are supported from ICD 6.19.



XCAL-Mobile/Solo 5.00.030

Release Date : 2021-04-19

Autocall

1. [Messenger Meeting]

Added Messenger Meeting Autocall for 'Zoom' application test.

It may not proceed different touch script and traffic start conditions for each device.



2. [Messenger Talk]

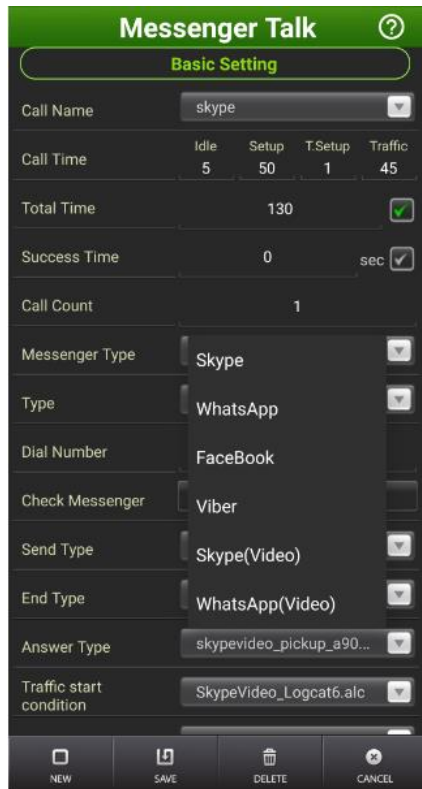
Added Video MOS option in Messenger Talk (Skype, WhatsApp)

Calculate PEVQ MOS Score through PEVQ Server or calculate PSNR and SSIM Score using FFMpeg option.

It may not proceed different touch script and traffic start conditions for each device.

Video MOS development required when develop Custom Kernel.

- Galaxy A90 (SM-A908N, AP: A908NKOU3BTI1) / KR
- Galaxy S20 (SM-G981N, AP: G981NKSU1CTKF) / KR
- Galaxy S10 5G (SM-G977U , AP: G977UVRU1XSFG) / AA

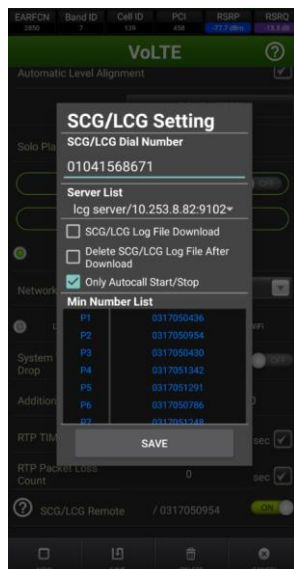


Function

1. [LCG/SCG]

Added Only Autocall Start/Staop option function to SCG/LCG Setting.

When this option is selected, the SCG/LCG test is performed immediately without transmitting the auto call scenario set in the device to the server.



Scanner

1. [R&S Scanner]

UI was updated. Scanner connection and scan request button has been simplified.

Scanner information, FW version and scanner connection status are displayed in table.



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.



| Regional offices |

▪ Hong Kong (Head Office)

Accuver APAC
Unit 206, 2/F., No. 8 Science
Park West Avenue
Hong Kong Science Park
Shatin, NT, HONG KONG
Tel : +852 2210 7004
Fax : +852 2210 7017

Enquiries :
sales.apac@accuver.com
support.apac@accuver.com

www.accuver.com

▪ Japan

Accuver Japan
29F Shiroyama Trust Tower,
4-3-1 Toranomon,
Minato-ku, Tokyo,
105-6029, Japan
Tel : +81-3-6430-2580

Enquiries :
sales@accuver.jp
support_aj_1@accuver.com
<http://www.accuver.jp/login.html>
www.accuver.com

▪ United Kingdom

Accuver England
Suite Two I/F
Congress House
14 Lyon Road, Harrow
Middlesex, HA1 2EN
Tel : +44 20 8863 1118
Fax : +44 20 8863 1688

Enquiries :
sales.emea@accuver.com
support.emea@accuver.com
<http://support2.accuver-emea.com>
www.accuver.com

▪ Korea

Innowireless B/D
190, Seohyeon-ro,
Bundang-gu,
Seongnam-si,
Gyeonggi-do, Korea
Tel : +82 31 788 1700
Fax : +82 31 705 0712

Enquiries :
sales@accuver.com
www.innowireless.co.kr

▪ Poland

Accuver Poland
Domaniewska 37 street
02-672 Warsaw, Poland

Tel:+48 22 3702518

Enquiries :
sales.emea@accuver.com
support.emea@accuver.com
<http://support2.accuver-emea.com>
www.accuver.com

▪ USA

Accuver Americas
500 N. Central Expressway
Suite 210 Plano
TX, 75074, USA

Tel : +1 469 241 6100
Fax : +1 469 241 6199

Enquiries :
sales.usa@accuver.com
support.usa@accuver.com
<http://help.usa.accuver.com/helpdesk>
www.accuver.com