

XCAL-Mobile Handy Solution embedded in Smart Phone

Handheld Air interface Field Testing Solution

Capturing RAN performance has never been easier. XCAL-Mobile is a leading handheld air interface monitoring tool that enables QoS and QoE testing across all GSM/WCDMA/EVDO/WiFi/LTE /LTE-A technologies. It supports extensive application testing and delivers realtime network measurement and visualisation capability in smart devices. All features can be controlled using the normal handset keys, which means anybody can use it.

XCAL-Mobile supports all major smartphones and can be extended to include Apple's iPhone and Android devices.

Use XCAL-Mobile to

- Record radio interface data to optimise RAN performance (network rollout, tuning, verification and maintenance)
- Calibrate the performance of network services (Voice, FTP, HTTP, Multi-RAB etc)
- Perform QoS and QoE analyses
- Export performance data to either XCAP (ACCUVER's own post-processing tool for deeper 'root cause' analysis) or other 3rd party tools.
- Perform automated tests that are user-configurable
- Reduce OPEX by minimising expenditure on test tools
- Support indoor and outdoor use
- Mobile platform supported : Symbian iPhone and Android

Benefits

- Technology independent (GSM, GPRS, EDGE, WCDMA, HSDPA, HSUPA, LTE etc)
- Inexpensive powerful and intuitive to use, with a high return on investment
- Vendor independent
- Extensive realtime data capture, visualisation and analysis

Application of XCAL- Mobile based solution

Contents	Mobile	Solo	Harmony
Autocall Support	0	0	0
No. of test (Interwork) devices	1	1	6
Field Test	0	0	0
In-building Test	0	0	0
MOS test	△	0	0
Benchmarking Test	X	X	0

All key applications supported on Smartphone



Features/Specification(Android)

Specification of supporting device	OS: Android OS up to KITKAT v4.4 Chipset: Qualcomm, Samsung
Technology	GSM/GPRS, CDMA/EVDO, 3G(HSDPA, HSUPA and HSPA), LTE, LTE-A (up to 3CA), TD-SCDMA, eMBMS, SUPL
Call Type	Voice, VoLTE, FTP, Web/HTTP, E-Mail, Iperf, Ping, YouTube, Multi-Call, Multi-RAB, Multi-Session
Main Features	<ul style="list-style-type: none"> • Automated Call Test : Voice, VoLTE, FTP, Web, E-Mail, Iperf, Ping, YouTube, Multi-Call, Multi-RAB, Multi-Session • RF View : Graph, table and map • Cell Measurement • Layer3 Display • Embedded POLQA (P.863) • In-Building • Call Statistics • SIP/RTP Analysis in VoLTE • TCP/IP packet capture • Band/RAT/Cell/Channel Lock (*It works on certain devices) • Support PCTel iBFlex Scanner • TTS Alarm • Replay
Main Supported Terminal	<ul style="list-style-type: none"> • Samsung: Galaxy S series(up to S5), Galaxy Note series(Up to Note4), etc. • LG: G2, G3, etc. • HTC: One series, etc. • Sony: Xperia A/VL/Z series, etc. • iPhone: iPhone 4/4s/5/5s/6/6+
Main RF Parameters displayed	<ul style="list-style-type: none"> • LTE : PCI, ECI, RSRP, RSRQ, RSSI, SINR, CQI, RI, No. of PRB, Rx/Tx power, MCS, PDSCH/PUSCH BLER, No. of Antenna, etc. • WCDMA : Rx/Tx Power, BLER, SIR, Cell ID, PSC, Ec/Io, RSCP, CQI, PHY/MAC-e/MAC-hs/HARQ Throughput, No. of codes, MCS, SF Codes Throughput, RG, AG, SG, TTI, UE Power Headroom, Happy Bit, etc. • GSM : LAC, Band, BSIC, Cell ID, BCCH/TCH ARFCN, Rx/Tx Power, Timing Advance, Rx Quality/Level, RLT/DS Counter, MAIO, Timeslot Number, Hoping Flag, HSN, Coding Scheme, etc. • CDMA/EVDO : Rx/Tx Power, PN, Ec/Io, Channel, SID, NID, SINR, DRC Rate, DSC Value, etc.

XCAL-Mobile

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Features/Specification(i-OS) * supported up to i-OS 8.0

Technology	2G/3G/LTE
Main Features	Automated test:Voice, FTP, HTTP and Multi-RAB RF View(map, graph and table), In-building, call statistics and others
RF parameters	2G/3G: Cell Id, MNC, MCC, PSC, Channel, Rx Level, Ec/Io LTE: RSRP, RSRQ, Cell ID, MNC, MCC



<VoLTE>

<3CA>



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