

XCAL IOT / Site Acceptance / Field Optimization / Mobile debug

The World's Leading Drive Test Tool

Used extensively on many of the world's largest networks, the intuitive and flexible XCAL series of drive test tools are designed to troubleshoot, monitor, maintain and optimize wireless voice and data network performance – all in realtime. XCAL assesses QoS/QoE and ensures seamless service integration with existing GSM, WCDMA, HSPA, EVDO, Mobile WiMAX, TD-SCDMA, LTE(CA ~ 6CA), LTE-U(LAA), PS-LTE(MCPTT), eMTC(Cat.M1), NB-IoT, **5G TF, 5G-NR and DSS (Dynamic Spectrum Sharing)**

By automatic recording and deciphering messages from the air interface, XCAL detects any network bottleneck and impediments to delivering high quality voice and data services, giving you invaluable input for your network enterprise. Especially strongly recommended for 4G VoLTE measurement and analysis.

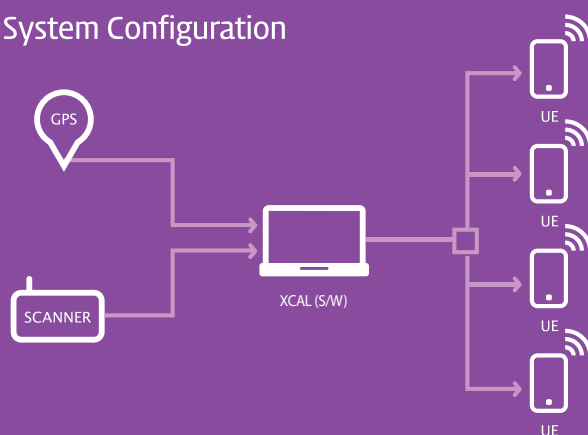
Use XCAL to

- Perform drive tests for service verification and gauge 'success' of network upgrades
- Benchmark network performance
- Carry out QoS, QoE measurements
- Carry out end-to-end application testing (MMS, SMS, video etc)
- Minimise OPEX by automating many labour-intensive workflows
- Intelligently manage massive volumes of drive test data, maps and performance counters
- Conduct indoor and outdoor network performance analyses
- Optimise handover performances
- Carry out Multiple data sessions on each test terminal
- Carry out ADB Script for Smart Phone Performance Measurement

Benefits

- Technology independent : GSM, GPRS, EDGE, WCDMA, HSDPA, HSUPA, CDMA2000, EVDO Rev.0, Rev.A, Rev.B, TD-SCDMA, DVB-H, Mobile WiMAX, LTE, LTE-A, LTE-3CA, LTE-U, LTE-H, PS-LTE, **5G TF, 5G-NR and DSS (Dynamic Spectrum Sharing)**
- Huge return on investment, because many technologies can be measured on the same simple platform (eg. GSM, GPRS, WCDMA, WiMAX and LTE, 5G-NR technology etc)
- Single platform for QoS, QoE and benchmarking
- Intuitive – very simple to use with minimal / no training involved
- Highly customisable, stable and robust
- User modifications (eg. New features/functions) are encouraged and custom delivered
- Easy and low cost maintenance

XCAL System Configuration



Features

- **Collect various data**
Collecting Layer 1,2,3 Message, TCP/IP packet information by interworking with device and scanner
- L1 : PDCCH/PCFICH/PDSCH and so on
- L2 : MAC/RLC/PDCP and so on
- L3 : RRC/NAS and so on
- **Support various chipsets**
Qualcomm, Samsung, MediaTek, Altair, Sequans, Intel, GCT, Nokia, LG and So on
- **Support Text log Format**
- **Support various Scanners**
PCTel, R&S, Anritsu, DRT
- **Support Remote Access Control**
- **Support various wireless technologies**
- WiBro, WiMAX, WiFi
- IS-95A/B, 1xRTT, EVDO Rev0/A/B, GSM/GPRS, EDGE
- WCDMA, HSDPA, HSUPA, HSPA+, DC-HSDPA, DC-HSUPA, MC-HSDPA
- LTE-A(CA ~ 6CA), LTE-U(LAA), PS-LTE(MCTPP), eMTC(Cat.M1), NB-IoT, **5G TF, 5G-NR and DSS (Dynamic Spectrum Sharing)**
- **Support various application automation test**
- Voice, SMS, MMS
- FTP, Ping, Iperf, Email, VOD, VT, WAR, VoLTE, mVoIP, Youtube, Google Play, Android APP automation Test
- Message Talk & Texting (BOLT, Bria, Facebook, Kakaotalk, Line, Skype, WhatsApp)
- VoWiFi

System Requirements

| Item | Minimum | Recommended |
|------------------|---------------------------|---------------------------|
| CPU | Intel i5 2.0GHz or higher | Intel i7 2.0GHz or higher |
| Monitor | 1280 X 1024 | 1680 X 1050 |
| RAM | 4GB or above | 6GB or above |
| Hard Drive | 120GB or above | 500GB or above |
| Operation System | Windows XP or higher | Windows 7 (or higher) |