

 Product sheet

XCAL-MO



-  Air Interface
-  Performance
-  Optimisation
-  Customisation

XCAL-MO

Network benchmarking made easy

XCAL-MO is a hardware platform proven to significantly improve your operational efficiency. Users can connect up to 20 handsets to XCAL-MO, which then automatically calls the network. The subsequent data can be recorded and displayed - and used to calibrate and optimise overall network performance.

Use XCAL-MO to

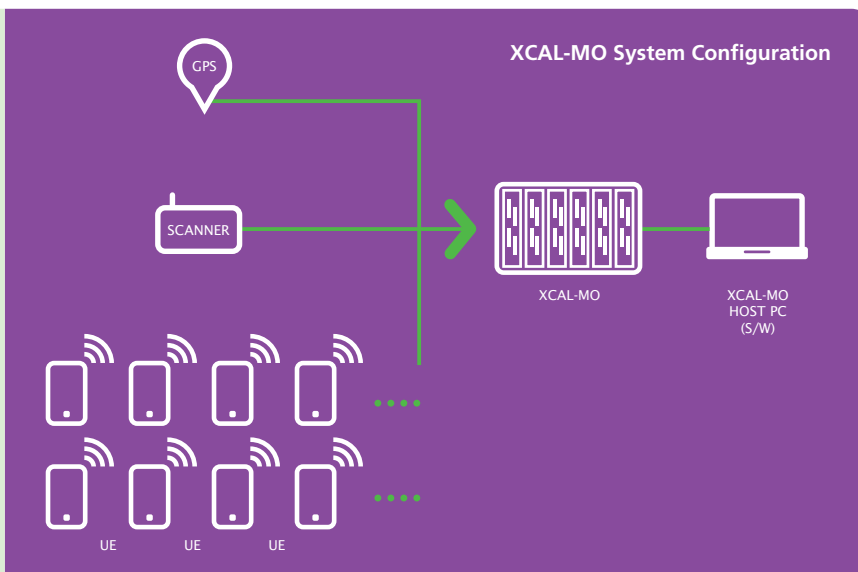
- Perform network benchmark tests to improve service reliability
- Benchmark individual service performance across competing operators
- Automate call scenarios for indoor and outdoor testing

Benefits

- Modular and scalable architecture that allows for future expansion
- Monitors service performance of either one or multiple networks
- Supports all major technologies and handsets/CPEs
- Easy to use and configure
- A range of service types (voice, video, emails etc) can be made to run automatically
- Fully compatible with XCAP for feature-rich post-processing of data, root-cause analysis and reporting

Features

- Auto Call (automated test scripts and scheduling)
- Realtime mapping for powerful geospatial visualisation
- Simultaneously records all RAN information and parameter values from connected devices
- Key measuring points include:
 - RAN data (CINR, Ec/Io / Tx power / Rx power etc)
 - Physical/MAC layer information
 - Layer 3 messages (and MAC management messages) and higher layer protocol messages including TCP/IP messages



Key Parameters and Features

Layer 1 information

- DL/UL Coverage-related parameters (ie. RSSI, UE/CPE transmission power, DL CINR etc) for each RAT (Radio Access Technology)
- Serving Cell Information for each RAT

Layer 2 information

- BLER (FER), ARQ (HARQ) for each RAT
- Resource management and scheduling information for each RAT
- MAC signalling messages for each RAT

Layer 3 information

- Layer 3 signalling messages for each RAT

NAS Layer information

- Higher layer information (ie. NAS in 3GPP)

Scanner information

- Interface with scanning receiver devices for each RAT

TCP/IP/Application information

- TCP/IP packet capturing and decoding
- Application layer KPI (throughput, network QoS, video quality, voice quality etc)

Call statistics

- Session drop rate
- Session failure rate

Specification

Technology	Call Test
LTE (FDD & TDD)/WiMAX (802.16d/e)/UMTS/HSPA HSPA+/DC-HSDPA/CDMA/EVDO Rev.0,A,B/GSM GPRS/EDGE	Voice (MOS), Video Telephony (MOS), FTP, HTTP, Ping, Email, VoIP, SMS, MMS, WAP, UDP, Iperf
Devices Up to 20 devices: LTE & WiMAX CPE, UMTS/ etc	Measurement 3GPP/3GPP2/ITU-T RF parameter; KPI measurement, Call statistics; GPS position
GPS Built-in GPS (NMEA0183)	Interface PIU (Molex), PCMCIA, Ethernet (RJ45), USB
Voice MOS ITU-T P.862/P.862.1 (PESQ)	Physical Dimensions (236 x 133 x 256 (WxHxD mm) 5.5(kg)
Video MOS PEVQ/MQAS	Power Supply 110/220-240VAC; 16VDC
Message Decoding L3 Message, MAC Management message, TCP/IP; RTP; RTSP; H.264; SIP etc	

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