

High-end Benchmarking Systems

DMTS

The Star Performer.

DMTS was designed with robustness, data safety and highest availability in mind. With its multi-processor modular design, it is made for voice and data benchmarking of multiple networks or services. DMTS is also the ideal solution for load generation. While it features unattended, driver-only operation, ad-hoc expert evaluation is also supported. Sophisticated data handling technologies guarantee that your valuable data is always absolutely safe.

Multiprocessor

Each channel is controlled by its own processor and guarantees independent measurement on each network even with heavy workloads.

Scalable

With its modular design, DMTS is ideal for mass data acquisition and multi-network benchmarking. Units can be stacked to run an unlimited number of channels.

Unattended Operation

In "student mode", DMTS is quickly set up and easy to use for driver-only operation. Once set up, it runs completely unattended.

Safe & Reliable

Automatic recovery and sophisticated error recognition technologies guarantee highest availability and full data integrity.

Expert Mode

In "expert mode", the full portfolio of professional visualization and analysis features is available during measurement and for data post processing.

Post Processing

Data collected with DMTS is integrated into Focus Infocom's post processing solutions and the complete process chain can be fully automated.

Script Automation

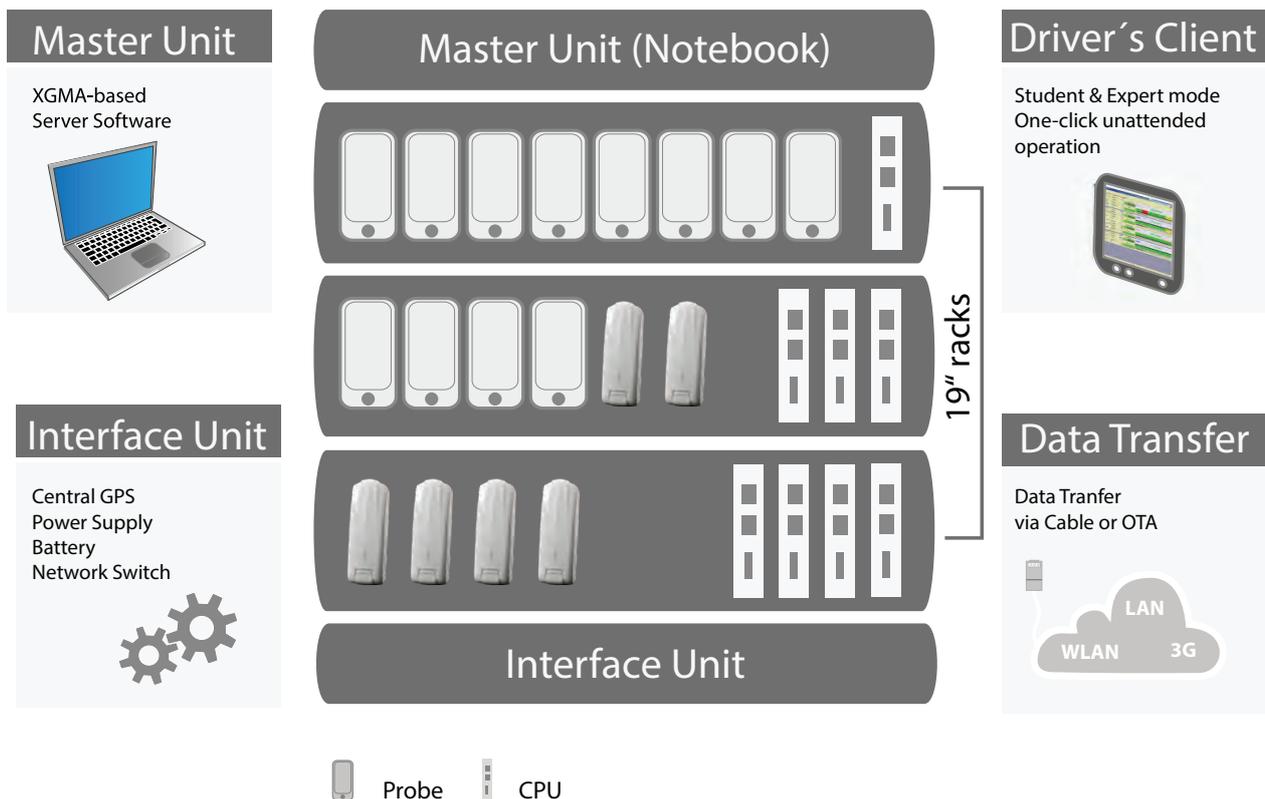
An easy, yet powerful script language lets you control and automate your measurements, and synchronize tasks in load generator operation.

Service Oriented

DMTS comes with numerous voice and data service tests and new ones are constantly added. So rest assured that you can always analyze and optimize the services your customers ask for.

Wireless

Remote-control fleets of mobile units or distributed stationary enterprise installations from one central control station.



DMTS



Load Generator

Thanks to DMTS's ability to stack an indefinite number of units that all run simultaneously to generate traffic, DMTS is the perfect load generator.

16-Channel load generator equipped with 16 Samsung S3 LTE smartphones.

Power Features

- Unattended driver-only operation
- Designed for benchmarking and load generation
- Data compatible with Focus Infocom's and 3rd party post processing tools
- Modular design for unlimited scalability
- Works with a large variety of commercial mobiles, trace mobiles and data sticks
- Full scanner integration with option to view real time scanner data in the DMTS master

DMTS features unattended driver-only measurement and benchmarking, but also allows visualizations and ad-hoc evaluation when required.



DMTS

Specifications

Supported Devices

Smartphones

- Embedded XGMA technology supporting a large variety of Android™ smartphones

Commercial Handsets and Modems

- Most modern mobiles in tethered mode
- Full support of QoS testing (customer perspective)

Trace Mobiles:

- Nokia: C5, C5-5MP, C7, N900, N85, N95, 6720
- Many handsets and modems with Qualcomm® chipsets

Data Modems:

- Huawei: E176 (HSPA), E182 (HSPA+), E398 (LTE™)
- Sierra Wireless: 87xx (HSPA+), 77xx (LTE™)
- Others on request

Scanners:

- Scanning Handsets
- Rohde&Schwarz: TSMW[†]
- P/N Scanner type PCTEL[†]
- P/N Scanner other types (optional)
- LAN Mode (enables Hotspot/WiMAX QoS testing)

Supported Technologies

GSM, GPRS, EDGE, UMTS, HSDPA, HSUPA, HSPA+, LTE™, GSM-R, TETRA

Measurement Data

IP trace data, detailed session events, GPS data, voice & video quality data, low level chipset data

QoS/Service Tests

KPI according to ETSI and beyond

Voice:

- MOC, MTC
- ITU-T P 862.1 (PESQ®)
- ITU-T P 863 (POLQA®)
- Voice over IP (Skype™ etc.)/OTT: task specific
- Further Services (e.g. voicemail, video telephony) on request
- VoLTE ready
- Multi-RAB

Data:

- Web browsing (various browsers), http/https
- HTTP up- and download
- Web 2.0*
- FTP up- and download
- PING
- UDP on request

Messaging:

- Email (POP3, SMTP, IMAP)*
- SMS*
- MMS*

QoS/Service Test cont'd

Streaming:

- Video streaming (YouTube® etc.)
- Video streaming MOS
- Mobile TV*
- Web Radio*
- Audio streaming

Visualizations

Multitudinous data visualizations including:

- Geo Views
- Multi-track Time Axis
- Single Value
- Data Table
- Excel View
- Layer 3 Decoder
- RLC/MAC Decoder
- QoS Monitor
- Alarming
- Waypoints
- Root Cause Analysis
- Phone based scanning
- GSM, WCDMA, LTE Scanner View
- Scatter View
- Google Earth
- Open Street Maps

Analysis Functions

DMTS offers a wide range of analysis functions including:

- FITA Auto Call Problem Analysis
- SIB Analysis
- Technical Reporting
- Handover Analysis
- RRC Analysis
- GSM L3 Analysis
- Full Text Finder for 2G and 3G Layer Messages

Post Processing

DMTS data is compatible with Focus Infocom's post processing solutions XGMA Analyzer and FIMAS and with all major 3rd party products.

* Service support depending on devices
Specifications subject to change without notice.