MultiDSLA Telephone Tester - Advance Information

A software option for the popular MultiDSLA speech performance test system. Telephone Tester automates the use of MultiDSLA in measuring transmission characteristics of telephone handsets to ITU Rec. P.310

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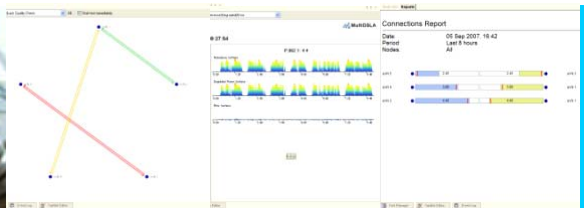


MultiDSLA predicts end-to-end user experience

WHAT IS IT?

MultiDSLA is a professional test system which measures the end-to-end *user experience* of any telephone system.

MultiDSLA Telephone Tester allows MultiDSLA to perform standards-based telephone testing. MultiDSLA Telephone tester works in conjunction with proprietary acoustic test components.

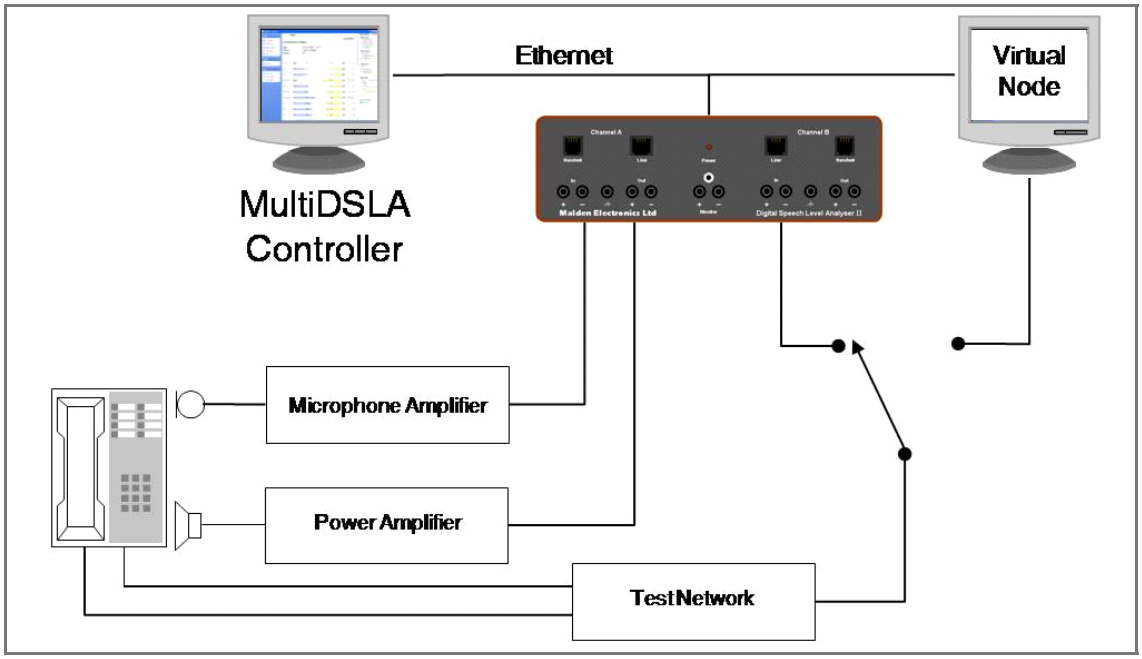
BENEFITS

MultiDSLA Controller offers a host of features for test design, test automation, results analysis and reporting.

The Telephone Tester option adds a range of electro-acoustic measurements to MultiDSLA.

MultiDSLA

From the laboratory to the network, from high-level performance statistics to detailed diagnostics: MultiDSLA is the trusted solution for all speech performance requirements.



MultiDSLA Telephone Tester

Telephone Tester automates the use of MultiDSLA in measuring transmission characteristics of telephone handsets to ITU Rec. P.310.

The figure above shows the configuration for the telephone tester.

The electrical side of the telephone user test will be connected via the network or network simulator to Channel B of DSLA or via an IP network to a Virtual Node.

Result Exporter

The results of the tests can be seen in the Results Analysis Viewer or within user definable masks in a spreadsheet.

Main Features

- Automated Calibration of Ear and Mouth
- P.310 Tasklists
- New Tasklist Events
  - Octave Tone Event
  - Noise Event
  - Octave Analysis Event
  - Frequency Response Event
  - Level Seeker Event
  - Power Event
  - Band Power Event
  - Loudness Rating Event
  - Terminal Coupling Loss Event
  - User Instruction Event

LAB
- Interactive test creation
- Fully flexible test design
- Highest accuracy
- Extensive analysis
- Immediate feedback
- Scenario testing
- Test automation

ENTERPRISE
- Management Reports
- Unattended operation
- Small learning curve
- Alerts on problem
- Standard tests
- Affordable and scalable
- NMS integration

NETWORK
- NMS integration
- Central scheduling
- Central maintenance
- Multi-tier user support
- Quick and easy to use
- Web reports

ON THE ROAD
- GPS for location and synchronisation
- Low power requirement
- Interface to cell phones
- Support for missing control network

MANUFACTURING
- Repeatable testing
- No training to run a test
- Database of all tests
- End of day reports
- TCL/Perl/Python remote access control

Main Features, cont.

- Result Exporter
- These tests will function for both 8k (narrowband) and 16k (wideband) sample rates.

Supported Standards

- IEC 1260 (1995-08) – Octave-band and fractional-octave-band filters
- ITU-T Recommendation P.310 (2003-03) – Transmission Characteristics for telephone band (300-3400) digital telephones
- ITU-T Recommendation P.64 (1993-03) – Determination of Sensitivity/Frequency Characteristics of local telephone systems
- ITU-T Recommendation P.79 (1999-09) – Calculation of loudness ratings for telephone sets
- ITU-T Recommendation P.501 (2000-05) – Test signals for use in telephonometry
- ITU-T Recommendation P.57 (2005-11) – Artificial ears
- ITU-T Recommendation P.58 (1996-08) – Head and torso simulator for telephonometry
- ITU-T Recommendation P.51 (1996-08) – Artificial mouth
- ITU-T Recommendation O.41 (1994-10) – Psophometer for use on telephone-type circuits
- ITU-T Recommendation G.122 (1993-03) – Influence of national systems on stability and talker echo in international connections
- ITU-T Recommendation P.48 (1988-11) – Specification for intermediate reference system.

APPLICATIONS

MultiDSLA is used in all branches of voice communications. These are just some application examples:

Terminal development

Network element development

VoIP, cellular, TDM, analogue: all transmission technologies

Regression testing

Telephone test bed

Conference bridge testing

Wireless handset comparison

UMA performance and handover analysis

Speech quality optimisation in all speech networks

Vendor selection

Enterprise SLA validation

Speech quality/load evaluation

Echo simulation and cancellation analysis

Drive test GSM

Competitive comparison of cellular networks or terminals

Drive test PMR/Tetra

Train communications

Codec evaluation

DSP performance measurement

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