

# MultiDSLAs Controller Datasheet

This Datasheet describes features, specifications and ordering information relating to the MultiDSLAs Controller. A complete test system consists of a MultiDSLAs Controller user interface application, plus one or more types of 'node' device - DSLA (Analog), VPP (SIP)

## See also the following:

- MultiDSLAs Nodes Datasheet, for details of all node types
- MultiDSLAs Brochure, for a general description of the MultiDSLAs system
- Audio Streaming Integrity Brochure, for details of this option
- VQMaaS datasheet for observability cloud-based offer

## MultiDSLAs PC minimum recommended specifications:

- Intel Core i5 processor or equivalent (Minimum), 4 vCPU or more for virtual machines
- 4GB memory minimum, 8GB recommended
- Windows 10 Pro; Windows 11 Pro; Windows Server 2016; Windows Server 2019; Both 32-bit and 64-bit versions of all Operating Systems.

## System Scaling

- Nodes: 100's (depending on number of simultaneous tests required)
- MS SQL Database: Can be configured locally on the MultiDSLAs Controller PC or on an independent server.
- SQL Server 2019 Express edition provided. You can upgrade to standard edition to extend storage capabilities

## Reports and Data

### Reports

locally through the GUI or remotely through web browser.

select the Nodes, time interval of interest, parameters and appearance.

Summary: Histogram representation of user-selected measurements, with Pass/Fail indication

Connections: Graphical presentation of speech quality scores between node pairs, showing the Perceptual Expectation Gap

Trend: Graphical representation of user-selected measurements showing trends over time

### Exports

Results Export - sets of numerical and graphical results which open in another MultiDSLAs system or in the free Speech Performance Viewer

Test Export - full data for importation into another MultiDSLAs system

Export results to csv and txt file formats  
Open in Excel spreadsheet

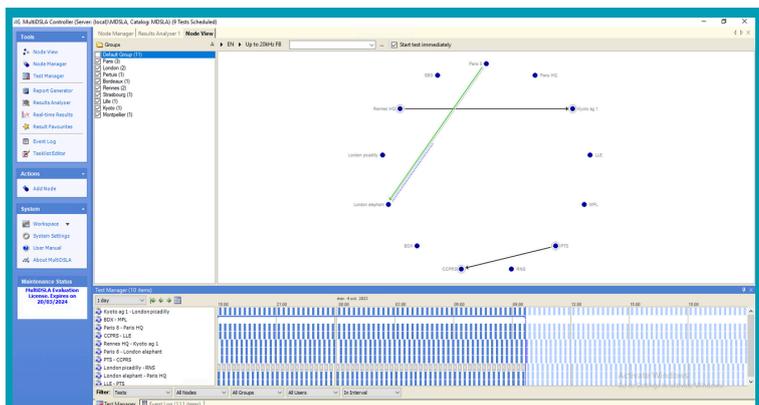
JSON/BSON export - send all metrics to external datastore (elastic or mongoDB)

### Test Control

Manual or scheduled test execution

Automation scripting languages supported:

- Python
- Rest API



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## Test Call Management

### Automated Call Control

- On hook, off hook, dial, ring detect for POTS services
- Smartphone Control app for Android
- TAPI/JTAPI Call control integration to soft-switches

### Call Setup Analysis

- Initial Response, Post-Dial Delay, call setup recording
- SIP messaging display with analysis

## Measurement Summary

### Scores

- POLQA, PESQ, PEAQ with graphical analytics, VISQOL integration, NISQA

### Signal Levels

- Mean Active, Peak and RMS speech
- Noise level
- DTMF analysis

### Delay

- One-way and round-trip speech

### Echo

- Up to three echos, level, loss, delay (analog domain)
- Simulation of echo signal and delay for echo canceller performance assessment

### Speech Recognition

- for IVR and Messaging systems
- perform Speech to Text translation

### Telephone Tester

- SLR, RLR, STMR, TCL
- send and receive distortion
- out-of-band

Product N°	Model	Description
MultiDSLAs System		
User Interface & Controller Software		
000199	MUI-ESSENTIALS24-SKM	MultiDSLAs software essentials bundle includes PESQ - Software Key Management
000200	MUI-ESSENTIALS24-DKM	MultiDSLAs software essentials bundle includes PESQ - Dongle Key Management
MultiDSLAs Options		
000201	MUI-DS-1	MultiDSLAs User Interface 1 additional device
000197	OSS	Opale Smartphone Supervizer (OSS) Mobile Phone Application
000198	OSS-UPG	Smartphone Controller (SC) to Opale Smartphone Supervizer (OSS) Upgrade
000103	TT	Telephone Tester (Speciality Metrics)
000137	SPR	Speech Recognition Option (Requires at least 1 SPR-200T)
000138	SPR-200T	Prepaid 200K speech recognition transactions of 15s max each
000172	CONNECTOR-JSON	Export Data - Json and Bson
MultiDSLAs dashboarding		
One time license purchase		
000201	DASH-LIC	Dashboarding for MultiDSLAs - Licence Price - One-time Lifetime Licence - Requires JSON option
Subscription licence		
000202	DASH-SUB	Dashboarding for MultiDSLAs - Subscription Mode - Monthly Price with 6-months commitment
SaaS subscription		
000205	DASH-OTC-SUB	Dashboarding as a Service for MultiDSLAs - VQaaS - One-Time Setup Cost
000206	DASH-SAAS-SUB	Dashboarding as a Service for MultiDSLAs - VQaaS -Monthly Price with 1-year commitment
Speech & Audio Quality Metrics		
POLQA Software Only		
000090	POLQA2EC	POLQA® P.863 speech quality metric for 2 effective channels non transferable
000091	POLQA4EC	POLQA® P.863 speech quality metric for 4 effective channels non transferable
000092	POLQA6EC	POLQA® P.863 speech quality metric for 6 effective channels non transferable
000093	POLQA8EC	POLQA® P.863 speech quality metric for 8 effective channels non transferable
000094	POLQA10EC	POLQA® P.863 speech quality metric for 10 effective channels non transferable
000095	POLQA12EC	POLQA® P.863 speech quality metric for 12 effective channels non transferable
000096	POLQA14EC	POLQA® P.863 base license for large systems (14EC) non transferable
000155	POLQA2EC-ADD	POLQA® P.863 speech quality metric for 2 additional EC (requires POLQA2EC at least) non transferable
Audio Metrics		
000173	PEAQ-ODG	PEAQ Audio Quality metrics. Requires DSLAIC 48k
000107	ASI	Audio Streaming Integrity Metrics

## Supported Measurement

- ITU-T Rec. P.56 Mean Active Speech Level
- ITU-T Rec. P.863 POLQA
- ITU-T Rec. P.862, 862.1, 862.2 PESQ
- ITU-R BS.1387 PEAQ
- ITU-T Rec. G.107 E-Model

## Pre-Defined Tests

- Connection Test - confirms the presence of a speech path between two nodes.
- Quick Quality Check - runs two speech quality tests in each direction and measures delay.
- Full Quality Check - assesses speech quality through several tests in each direction using a wide range of speech sounds and measures delay.
- Engineer evaluation - runs SQM at different output level to assess DUT or SUT best results

## User-Defined Alerts

- Alert on measurement or system exception
- Create Boolean combinations

## Advanced dashboarding

- built-in and customizable view for monitoring , alerting and root cause analysis