

MDS 192

Multi-port Triple Play CPE load system for DSLAMs, BRAS, Content Servers, Network Aggregates

The MDS 192 generates multiple CPE's in order to test DSLAM capacity and Service Operator Network quality under full load conditions.



The MDS generates Triple Play services based on real modems cards with programmable Customer User Profiles allowing Service Operators and DSLAM vendors to define the true limit of their services and hardware under realistic network deployment conditions.

The MDS 192 is a modular system that can be expanded with blades holding up to 24 ADSL, ADSL2plus or VDSL2 modems.

The ADSL/ADSL2plus 992.1/2 modems are TR-100 compliant and ITU interoperable with any DSLAM that can run the same Standard. The modems are fully compatible with all standard chip sets.

One card can hold up to 24 ADSL/ADSL2plus modems or 24 VDSL2 modems.

Each of the modem can be individually programmed with a Customer User Profile (CUP) of 24 hours in steps of 1 minute with the following service:

- VoIP
- IPTV
- Data transfer

Each CPE or a group of CPE's are programmed to work in a 'single mode' for one service only, or in a 'mixed mode' of different services running at the same time.

The source and destination server are programmable, as well as the repeating function of the CUP per IP address that corresponds with one modem and one user. Optionally it is possible to load own user profiles which can be customized as of the different type of services delivered by the Service Operator. For that purpose a user behavior track can be stored with the ICXACT 4.0 that allows for replaying the user as a CUP in the MDS.

This way the MDS 192 can, for instance, allow for testing the performance of the DSLAM or a content server in case all users are logging in at the same time for the same IPTV service while keeping open other services. The MDS 192 is loading the network with a customer behavior profile allowing for analyzing the quality and the speed of the Service with network probes and protocol analyzers.

CPE TECHNOLOGIES

- ADSL - RE-ADSL - ADSL2
- ADSL2plus
- VDSL - VDSL2
- VDSL & ADSL over POTS

INTERFACING

- Each modem is accessible at LAN port
- TELCO 50 towards DSLAM
- TELCO 50 from MDS 192

CUSTOMER USER PROFILE

- Pre-programmed load scenario's
- Free programmable CUP's
- Triple Play combination loads
- Down and restart of network
- Grouping of CUP's

PHYSICAL LAYER

- Live deployment Line Simulator
- Live deployment noise models
- Bit rate settings
- Crosstalk stress test
- INP, Fast Mode, Interleaved Mode
- Noise Margin reading
- Micro-Interruptions
- POTS Splitters
- Micro-Filters
- Telephone audio tester



MDS 192 runs 192 simultaneous Customer User profiles using 10BaseT interface of each CPE.

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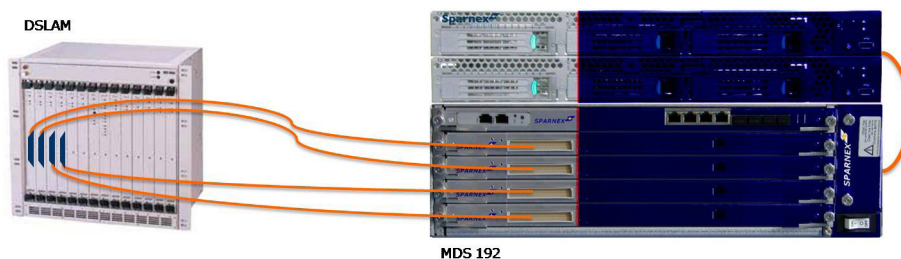
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FEATURES & BENEFITS

- The MDS 192 is replacing a modem wall.
- Use of real hardware electronics as used in standard CPE/modems/settop boxes.
- Provide direct interfacing to each modem at user side with 10BaseT.
- Internal Triple Play load generator.
- Integrated system with server, routers, controller and modems.
- Easy to program Customer User Profiles .
- 'Use of service' timers 24 hours around the clock with step size of 1 minute.
- Programming features like grouping of customer profiles, network down-and-restart, external CUP load.
- Modular system expandable up to thousands of users.
- Consistent working at all times.
- Compact design in 19" racks.
- Expandable with wireline and noise profiles simulating all effects of live network deployment.
- Expandable with voice and POTS splitter cards per user.
- Ideal platform to test the performance of DSLAMs, BRAS, Content Servers under full load conditions.
- Allow for checking response time and quality of Triple Play services.
- Facilitates access node testing in the laboratory.
- Enables up front testing of network service without expensive field trials.

SETUP WITHOUT PHYSICAL LAYER



SETUP WITH PHYSICAL LAYER (MLT 24)

