

The VoIP Performer™

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Performance
Analysis System



Comprehensive test solution

for evaluation of VoIP

applications and services

Comprehensi

solution

services

A complete



Rack mount Performer

The Performer is a comprehensive solution for predeployment and recurring VoIP system performance testing. It generates realistic network environment stress levels on new VoIP devices and applications, and then tests the quality and grade of service delivered. The Performer provides highly accurate measurements and accelerated data output integrated with automation tools and specific testing programs, significantly reducing time-to-market and development costs, as well as simplifying the evaluation process critical to successful deployment.

Integrating both hardware and software controlled from an easy-to-use console, the complete Performer VoIP suite includes the 323Sim VoIP call generator, the SIPSim session initiation protocol simulator, the NetSim WAN impairment simulator, the MediaPro real-time VoIP monitor, the Capture protocol decode tool and the QPro voice quality evaluation tool.

System Highlights

- Stress tests
- Quality of Service
- Grade of Service
- Subjective and objective voice quality measurements
- Bandwidth utilization measurements
- Cross measurements and correlated results
- Modular and distributed architecture
- Scalable solution
- Multi-protocol support
(H.323v2/v3, SIP, MGCP, T.38)
- Advanced control capabilities
- Remote scripting capability for fully automatic test procedures

Portable Performer



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Classic VoIP Testing

The Performer components generate high levels of stress, such as call traffic and service queries, while controlling WAN impairments (jitter, latency and packet loss). Cross-correlated assessments are performed by the QPro and MediaPro to ensure VoIP service integrity and faultless collaboration between components.

VoDSL Testing

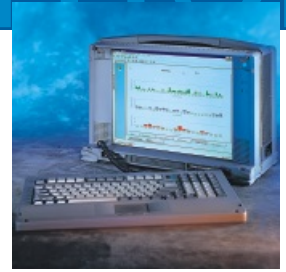
Quality of Service and voice quality can be accurately predicted while simulating stress and pinpointing the location of problematic components in VoDSL networks. Further assessment of voice quality is achieved through real-time objective voice measurement analysis based on PAMS (perceptual analysis voice measurement system), in addition to subjective voice quality measurement.

VoCable Testing

Extreme noise sensitivity and media sharing on VoCable networks makes the assessment of end-to-end voice quality essential. Such evaluations are performed by the QPro components strategically located in the network at various sites, such as residential modems and central office PSTN.

Soft Switch & IP PABX Testing

As call traffic is generated by the 323Sim and SIPSim simulators, the MediaPro uses an embedded decoding mechanism to evaluate signaling integrity and ensure correct network operation with multi-vendor systems. The MediaPro also provides valuable information, such as caller line ID, call duration, source and destination, used to verify billing integrity in relation to call detail records.



Specifications

Components

- 323Sim:** VoIP Simulator capable of emulating the functionality of an H.323 terminal. Several simulators can be deployed to increase call volume to thousands of simultaneous calls, with each 323Sim generating 2,000 calls at a rate of over 80,000 calls per hour.
- SIPSim:** Session initiation protocol simulator with dual-mode functionality capable of emulating multiple SIP phones and implementing sessions between two MGC or two IP/PBX servers. Also able to stress and check ability of registration servers to handle heavy registration loads.
- MegaSIP:** High-volume SIP-based traffic simulator with two important capabilities: MegaStress for generating millions of SIP-based signaling sessions per busy hour, and MediaStress for generating high volumes of media-based calls.
- MediaPro:** Real-time VoIP monitor that analyzes media and signaling data generated from H.323/MGCP/SIP protocols and provides voice quality measurements.
- QPro:** Performance test solution that provides GoS, QoS, and voice quality measurements (based on PESQ or PAMS) between any two multi-technology locations connected through PSTN and cellular interfaces.
- NetSim:** Simulator of various WAN impairments such as latency, jitter and packet loss to assess their effect on networks and components.
- Capture:** A drill down tool offering protocol decoding up to the application layer and supporting filters and analysis of the captured data.

All components are controlled from a single console, with the possibility of automated testing through scripting. A common user interface ensures ease of use.

Console

- PC:** Pentium II 400, 128 MB RAM (minimum)
Pentium III 800, 512 MB RAM or more (recommended)
- Monitor:** VGA 1024 x 768
- Hard Disk:** Minimum 4 GB free for program files
At least 2 GB recommended for data storage
- Operating System:** Windows 2000/NT

Performer

- Embedded Hardware:** CPU-based, Pentium III 800, 512 MB RAM (minimum)
- Dimensions (d x w x h):** Rack Mount: 457 x 482 x 88 mm (21.5 x 19 x 3.5 in)
Portable: 171 x 401 x 259 mm (6.7 x 16 x 10.2 in)
- Weight:** Rack Mount: 12 kg (26.5 lb)
Portable: 8.18 kg (18 lb)
- Power Supply:** Rack Mount: Maximum 115V/2A, 230V/1A
Portable: Maximum 110V/2A, 220V/1A

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About RADCOM

RADCOM designs, manufactures, markets and supports network test and quality management solutions for service providers, developers and enterprises worldwide.

The company specializes in a line of high quality, integrated, multitechnology WAN/LAN/ATM test solutions as well as unique performance measurement solutions for VoIP and cellular converged networks.

RADCOM's analysis and simulation solutions are used in the development and manufacture of network devices, and in the installation and ongoing maintenance of operational networks to facilitate real-time isolation, diagnosis, and resolution of network problems. RADCOM's sales network includes over 60 distributors in 50 countries worldwide and 10 manufacturer's representatives across North America.

RADCOM's customers include Cisco, Lucent, Ericsson, Nokia, Motorola, AT&T, MCI Worldcom, Sprint, British Telecom, Deutsche Telecom and Telstra.

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