

Beethoven MP 100e

Voice Service Management for Your Enterprise Network

- Highly available Scalable Voice Services Management Solution for standalone and distributed configurations
- Interchangeable interfaces include POTS, E1, T1, VoIP and VoDSL
- Advanced Signaling Protocols include MGCP, SS7, V5.2 and SIP
- Apply the latest Voice Quality Analysis algorithms: PESQ (ITU-T P.862), P.SEAM (ITU-T P.563) and E-Model (ITU-T P.107)
- Advanced Management and Control system to collect and analyse data for your network

Assuring Service and Performance levels of the Voice Network in your enterprise, allows you to fully avail of the Telecommunications revolution, reduce your costs, and eliminate spurious service degradations. Visibility to call and signaling information, including customer experience metrics gives you the control that allows you to deliver increased productivity from your staff, and better service to your customers.

The Beethoven MP 100e is a Voice Service Monitoring system intended for Enterprises needing an integrated monitoring solution to manage and assure quality of service and reliability of your Voice Network.

This solution is tailored to facilitate both non-intrusive and intrusive testing of enterprise level configurations including Circuit Switched PSTN, ISDN and VoIP configurations.

Applying the latest Voice Quality Metrics in combination with intelligent signaling analysis, the Beethoven MP 100e delivers unparalleled visibility of your voice network operation.

The Beethoven MP 100e can be scaled to your network and analysis needs. The system is managed by the Beethoven Management System, allowing a full picture of the voice network performance to be derived at a glance.

“Beethoven objectively evaluates the quality of your voice service, empowering you to avail of today’s communications technologies with lower cost and less risk”

Features

Intrusive and Non-intrusive Voice Quality Analysis metrics including Mean Opinion Score (MOS) using P.SEAM (ITU-T P.563), PESQ (ITU-T P.862), E-Model (ITU-T G.107)

Signaling protocol monitoring, include MGCP, H.323, SS7, SIP, V5.2

Scalable architecture, configurable interfaces

Intuitive web based Management System

Detail Call metrics for each call are stored in a central database

Alarm generation

Benefits

Customer experience management, allowing voice service problems to be pro-actively monitored and managed

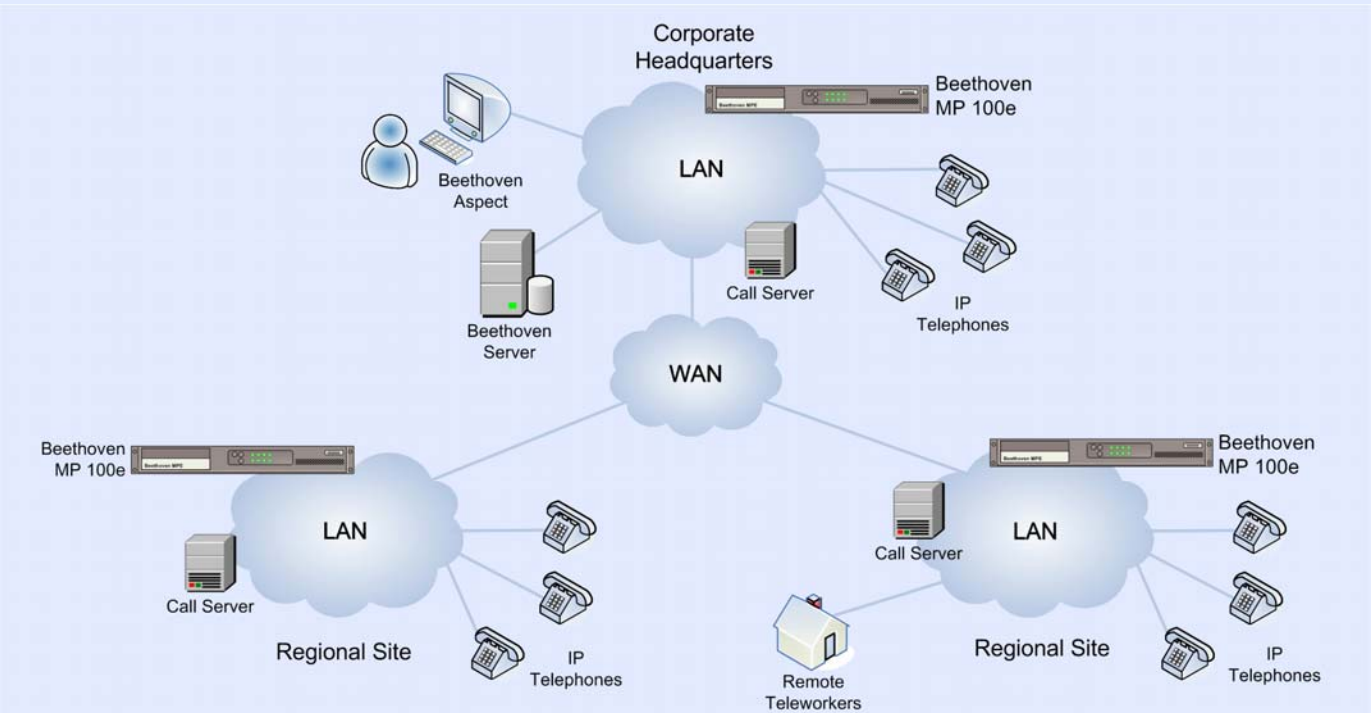
Targeted call analysis to assist with rapid fault isolation

System can be scaled to your network requirements

Simple management, global access, automatic report generation

Data mining and baseline trends identified for your network

Intelligent Alarm generation and filtering using trend and event data



Specifications Summary

Voice Quality Metrics

Transmission Rating Factor	ITU-T G.107 E-Model
Mean Opinion Score	Non-intrusive P.SEAM (ITU-T P.563) Non-intrusive E-Model (ITU-T G.107) Intrusive PESQ (ITU-T P.862)
Echo	Echo Return Loss, ERLpeak, transmission delay
Double Talk	% Double talk, Double Talk Muting, Front end clipping
Background Noise	Periods of non-speech, noise measurement
Speech Power Level	Power level
Voice Activity Detection	Voice classification
DTMF detection	Configurable sensitivity

Interfaces

Type	2.048Mbps (E1) 1.544Mbps (T1), POTS, 10/100/1000Mbps (VoIP), xDSL (VoDSL)
Density	Configurable
Flexibility	Interfaces can be freely combined in the six available slots of a single MP 100

Physical, Mechanical & Power

Ambient Operating Temperature	5°C to 40°C
Power Supply	Dual, redundant -48VDC -36VDC to -64VDC operating range
Rack Mounting	19/23 inch rack mountable
Height	88mm (2U)
Width	435mm
Depth	508mm

Regulatory Compliance

Safety	UL 60950, CSA 60950, IEC 950, TUV/GS EN60950
EMC	Verified to FCC Class A; tested to CISPR 22 Class A, EN55022 Class A, VCCI Class A ITE, AS/NZS 3548 Class A, CNS13438
Immunity	EN 55024
NEBS/ETSI	Bellcore GR-63, GR-1089, ETSI 300 386, 300 019, 753



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