Network & Service Performance Management for QoS in IP Networks

- Carrier-grade performance analysis
- Proactive capacity planning
- Fully automated service quality monitoring
- Improve operational efficiency & network reliability
- Multi-vendor, multi-technology network support
- The industry's leanest comprehensive PM system
Network Performance and Service Quality Monitoring

NexusMETER provides a full view of your network performance via customizable dashboards and ad hoc reports, rendering activity in your network fully transparent. Delivering accurate data is not only a necessary start to understanding how to optimize network performance, but it is crucial to quality assurance and to proving stringent Service Level Agreements (SLAs) are being met.

Isolate Network Performance Issues
Contemporary performance management solutions must be able to predict and prevent problems, identifying their root causes and prioritizing issues based on business impacts.

Network degradations and outages threaten your service delivery, potentially resulting in costly penalties and lost customers. To reduce these threats and their operational impact, the service provider needs responsive tools that quickly identify and isolate network problems, supporting the operator in re-establishing services.

The number and variety of possible fault, performance and threshold issues in today’s networks require a flexible approach suitable for all scenarios. Thus NexusMETER employs a Complex Event Processing (CEP) tool, which is a rule-based event management system that provides an integrated, intelligent approach to managing your network infrastructure as a business service.

Rule-Based Complex Event Processing
NexusMETER’s CEP engine is designed to send notifications based on a variety of performance-related criteria per user-defined rules. It can be used to notify multiple downstream systems, including fault management systems, data warehouses and other OSS applications. The operator can also use the CEP to activate service level or network performance report generation and distribution.

► Maximize service quality
► Minimize SLA penalties
► Alarm notification via email, SMS and SNMP Trap

Once integrated with your existing Service Level Management system, CEP provides real-time and highly granular network performance information for rapid detection and isolation of network problems.

Meaningful Performance Reports
Network users typically collect many different types of captured network and traffic data. In response to this challenge, NexusMETER provides for raw and user-defined Key Performance Indicators, addressing the reporting needs of all stakeholders. In particular, the generation of flexible performance and trending reports for network and capacity planners, as well as for executives and end-users:

► User-defined Dashboards
► Summary, Detail, Analysis Reports
► Daily, Monthly & Yearly Historical Reports

For Network Operation teams to understand network problems, NexusMETER provides historical network performance analysis, which visualizes services affected by network issues and identifies potential trends or seasonal issues for future consideration.
Optimize Resource Utilization

The network infrastructure is the cornerstone that supports the value-added services of network operators. Intelligent investment and optimization of the network and associated IT infrastructure reduces the probability of network and service performance issues (e.g. congestion and service faults).

Similarly, sizing the network infrastructure to suit the actual and expected capacity demand often represents substantial savings.

Understanding traffic patterns and trends is vital to forecasting future network capacity and utilization levels. After all, network and service performance depend on an appropriate inventory of equipment and infrastructure to support the data service application and network layers.

Basing your network and capacity planning and investment on reliable and informative NexusMETER reports significantly reduces the total cost of network ownership.

Meet Business Objectives

The high scalability and flexibility of the NexusMETER performance management system facilitates easy integration of new services, enabling the service provider to accurately control capital expenditures while minimizing operational costs.

- **Optimize CAPEX:**
  - Use Traffic Trending reports to proactively troubleshoot
  - Utilization reports help avoid over-provisioning

- **Reduce OPEX:**
  - Availability and Quality of Service reports
  - Minimize Mean Time To Recovery
  - Reduce Mean Time Between Failures

- **Increase Return on Investment (ROI)**
- Single “source of truth” for your network’s performance and service assurance data

Knowledge is Power

Comprehensive Network Capacity & QoS Analysis
Operational Efficiency & Quality Control

Network Performance & Capacity Management
With bandwidth requirements increasing at an estimated 20% per subscriber per year and with demand for new, next-generation services keeping pace, effective network performance and capacity management is more imperative than ever. NexusMETER delivers:

► A single performance reporting platform for a wide range of network types, including IP/IMPLS, VoIP, core and access, wire and wireless technologies
► Real-time and historical network performance and service quality reporting
► Service assurance monitoring of network services
► Carrier-class network performance visibility

Understanding where and how to optimize your network’s performance is the key to ensuring your performance commitments are met. NexusMETER empowers operators to take control of their networks to enhance productive efficiency with an immediate remedial, as well as a preventive and forward-looking, performance management solution. It also happens to be the industry’s leanest full performance management system for monitoring the health of networks and services.

Service Quality Made Transparent
As a single Unix-based performance management system, NexusMETER provides the highest granularity of network information and scalability for layer 2 and layer 3 services in the industry. Supporting a broad range of network technologies and network equipment from all major vendors in the industry, NexusMETER ensures that stringent quality criteria are met and facilitates adherence to service levels seamlessly across the service provider’s network infrastructure.

Tier 1 Service Provider’s Product of Choice

► Comprehensive performance reports to facilitate and enhance your network and capacity planning team
► Easy to create, use and maintain
► Network utilization, optimization and workflow savings
► Best-in-class service level verification

Nexus Telecom’s real-time and historical resource performance reporting and service quality surveillance solution enables service providers and enterprises to offer carrier-class communications services to end customers.

Fully Scalable to Any Legacy or NGN
The high scalability and configurability of the NexusMETER performance management “pay as you go or grow” system facilitates easy integration of new equipment and services, enabling the service provider to accurately control capital expenditures while minimizing operational costs.

NexusMETER —Knowledge is Power
Let network operations personnel and engineers proactively ensure the delivery of applications and services to users and customers.

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