

VoIP & Network Quality Manager

Proactive VoIP and WAN Performance Monitoring

The screenshot displays the SolarWinds VoIP & Network Quality Manager interface. At the top, there are navigation tabs for 'MY DASHBOARDS', 'ALERTS & ACTIVITY', 'REPORTS', and 'SETTINGS'. The main content area is titled 'IP SLA Summary View' and includes several sub-sections:

- All IP SLA Operations:** A list of operations grouped by type and status, including UDP Echo and TCP Connect.
- IP SLA Operations By Status:** A table with columns for IP SLA OPERATION, OPERATION TYPE, and ROUND TRIP TIME. It lists several operations between nodes like 'bas-2851.local' and 'cur-2851.lab.cur'.
- Network Quality Map:** A world map showing operation status. A note indicates the map is not live and suggests using Orion Network Atlas.
- IP SLA Operations Health Overview:** A pie chart showing the health status of operations, with categories like 'Operation Up', 'Operation Warning', 'Operation Critical', 'Operation Down', 'Unknown', and 'Operation Unreachable'.
- Search VoIP Calls:** A search interface with filters for Call Origination, Call Destination, Call Time, Call Status, and Call Quality.
- Last 25 IP SLA Events:** A list of recent events, including service start/stop notifications and evaluation expiration warnings.

Stay a step ahead of VoIP call quality issues and end-user complaints. SolarWinds® VoIP & Network Quality Manager (VNQM) monitors VoIP performance by analyzing call detail records generated by Cisco® Unified Communications Manager and Avaya Aura® Communication Manager, and helps you proactively identify and eliminate distortion, latency, and noise. It also generates synthetic VoIP traffic using Cisco IP SLA technology, and facilitates capacity planning and measurement of voice quality in advance of new VoIP deployments. VNQM also tracks key edge router and switch statistics, and helps you keep a close eye on site-to-site WAN performance.

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WHY CHOOSE VOIP & NETWORK QUALITY MANAGER

- » Monitors VoIP call quality metrics including jitter, latency, packet loss, and MOS
- » Correlates call issues with WAN performance for advanced troubleshooting of Cisco and Avaya® calls
- » Monitors site-to-site WAN performance using Cisco IP SLA technology
- » Provides VoIP gateway and performance details, including PRI trunk and channel utilization, for capacity planning
- » Gain valuable Cisco SIP trunk metrics, including status and call activity, to aid in troubleshooting
- » Searches & filters call detail records
- » Automatically discovers Cisco IP SLA enabled network devices and deploys typically in less than an hour

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FEATURE HIGHLIGHTS

Monitor VoIP Call Performance

VNQM monitors the performance of VoIP calls by analyzing call detail records (CDRs) generated by Cisco and Avaya communication managers.

Troubleshoot VoIP Call Performance

VNQM enables advanced VoIP troubleshooting by correlating individual call performance with corresponding network performance metrics.

Search and Filter Call Detail Records

VNQM provides the ability to search, filter and display call detail records (CDRs) to aid in troubleshooting.

VoIP and WAN Monitoring Dashboards

VNQM provides customizable at-a-glance insight into all aspects of your VoIP and WAN performance through an intuitive LUCID™ web interface.

Intelligent VoIP and WAN Performance Alerts

VNQM enables you to configure intelligent alerts that notify you when specific VoIP or WAN performance thresholds are crossed so you are the first to know when an issue arises.

VoIP Gateway and PRI Trunk Monitoring

VNQM provides VoIP gateway and performance details including PRI trunk and channel utilization, distribution of VoIP and data, and a list of the top 10 quality issues through a designated gateway so you can see exactly how your VoIP capacity is being used and identify potential issues before they impact users.

Cisco SIP Trunk Monitoring

VNQM provides valuable Cisco SIP trunk metrics including up/down status and audio and video call activity. In addition, SIP trunk call activity and availability is displayed in the PerfStack™ dashboard. This enables admins to identify the root cause of Cisco SIP call failures by correlating SIP trunk availability and call activity, call performance metrics, and corresponding network performance metrics including CPU and memory utilization.

Call Signaling Chart View

VNQM provides a pictorial representation of the packets exchanged from the call initiation, during progress, and end of call, as well as displays the requests that took place from call start to call end.

Automatic IP SLA Setup

VNQM allows you to set up IP SLA operations on your edge routers and switches with a wizard-like interface. You won't need any complicated CLI commands to get started; just a few clicks of your mouse and you're off.

VoIP and WAN Capacity Planning

VNQM generates synthetic VoIP traffic using Cisco IP SLA technology to facilitate capacity planning and measure voice quality in advance of new VoIP deployments.

Customizable Performance Reports

VNQM makes it easy to generate VoIP and WAN performance reports using out-of-the-box templates that can be customized with a few mouse clicks, automating report creation and distribution.

Quick, Do-it-Yourself Deployment

Download, install and deploy VNQM typically in less than an hour.

SYSTEM REQUIREMENTS

VoIP & Network Quality Manager sites are limited to locations where there is an existing Cisco IP SLA compatible router to serve as a simulation node. For more information about IP SLA-capable routers and switches, go to www.cisco.com/go/fn.

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HARDWARE	MINIMUM REQUIREMENTS
CPU	Quad Core Processor 3.0 GHz or better
Memory	8GB RAM
Hard Drive	20GB
SOFTWARE	MINIMUM REQUIREMENTS
OS	Microsoft Windows Server 2008 R2 SP1 Microsoft Windows Server 2012, 2012 R2 Microsoft Windows Server 2016
.NET Framework	.NET 4.5; compatible with 4.6.1
Database	SQL Server 2012, 2012 SP1, 2012 SP2, or 2012 SP3 (also with AlwaysOn Availability Groups) SQL Server 2014, 2014 SP1, 2014 SP2 (also with AlwaysOn Availability Groups) SQL Server 2016 SQL Server 2017

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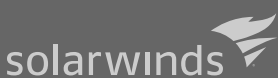
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