



FEATURES

- Measuring delay, jitter and packet loss on the network
- Extensive Traffic Coverage (i.e. ICMP, HTTP, FTP, DNS, SNA, DHCP)
- Drag & drop configuration of IP SLA on Cisco devices

MONITORS

- Roundtrip response time
- DHCP
- DNS
- Echo
- FTP
- HTTP
- Jitter
- TCP Connect
- UDP Echo
- Network delay or latency
- Packet loss
- Network delay variation (jitter)
- Availability
- One-way latency
- Website download time
- Network statistics

BENEFITS

- Improved network availability and performance
- Accurate monitoring using existing network infrastructure
- Ensure the network will support rollout of new applications (i.e. VoIP)
- Proactive notifications through email, pager, SMS

NIMSOF DATASHEET

Nimsoft for Cisco IP SLA

The Nimsoft for Cisco IP SLA solution adds network perspective monitoring for improved Quality of Service.

Introduction

With the convergence of Voice, Video and Data applications on the network, it is becoming increasingly important to monitor the performance to ensure quality of service (QoS) and Service Level Agreement (SLA) compliance. These applications are more susceptible to even the slightest changes and transmission characteristics of the network. It is imperative to understand the traffic characteristics of the network before and after deployment of new applications to ensure successful implementations and maintain service level compliance.

Cisco IP SLA (Service Level Agreements)

The Cisco IP SLA Agent (formerly SAA) is embedded software within Cisco IOS devices that generates and monitors traffic to measure performance between any combinations of network endpoints. Since the agents reside on Cisco devices, they have precise knowledge of the delays and can therefore provide very accurate performance measurements. Both enterprises and service providers routinely deploy IP SLA for network performance statistics within IP networks that utilize Quality of Service (QoS), Voice over IP, Security, Virtual Private Network (VPNs), and Multiprotocol Label Switching (MPLS).

Configuring IP SLA is a difficult and time consuming task. That is why many small, mid-size companies and some enterprises do not utilize this powerful monitoring feature. With the Nimsoft Monitoring Solutions (NMS), formerly known as NimBUS, IP SLA probe it has never been easier, with drag and drop configuration, data analyses and seamless use of the collected data in any NMS console, dashboard, QoS and SLA report.

The NMS IP SLA Probe provides an easy to use, scalable and cost effective solution for configuring IP service level monitoring using your Cisco devices by utilizing the "probe" capabilities within Cisco IOS. IP SLA is supported on almost all Cisco IOS devices.



The screenshot shows a window titled "IP SLA monitor" with a table of IP SLA probes. The table has columns for "ID", "Type", "Tag", "Name", "Status", and "State".

ID	Type	Tag	Name	Status	State
0001	tcpconnect			00	active
0002	ftp	ftp test	pacqpe	00	active
0003	cycles	PPPOE R1M3	com	00	active
0004	cycles	PPPOE R1M3	com	00	active
0005	cycles	PPPOE R1M3	com	00	active
0006	cycles	PPPOE R1M3	com	00	active
0007	cycles	PPPOE R1M3	com	00	active
0008	cycles	PPPOE R1M3	com	00	active
0009	cycles	PPPOE R1M3	com	00	active
0010	cycles	PPPOE R1M3	com	00	active
0011	cycles	PPPOE R1M3	com	00	active
0012	cycles	PPPOE R1M3	com	00	active
0013	cycles	PPPOE R1M3	com	00	active
0014	cycles	PPPOE R1M3	com	00	active
0015	cycles	PPPOE R1M3	com	00	active
0016	cycles	PPPOE R1M3	com	00	active
0017	cycles	PPPOE R1M3	com	00	active
0018	cycles	PPPOE R1M3	com	00	active
0019	cycles	PPPOE R1M3	com	00	active
0020	cycles	PPPOE R1M3	com	00	active
0021	cycles	PPPOE R1M3	com	00	active
0022	cycles	PPPOE R1M3	com	00	active
0023	cycles	PPPOE R1M3	com	00	active
0024	cycles	PPPOE R1M3	com	00	active
0025	cycles	PPPOE R1M3	com	00	active
0026	cycles	PPPOE R1M3	com	00	active
0027	cycles	PPPOE R1M3	com	00	active
0028	cycles	PPPOE R1M3	com	00	active
0029	cycles	PPPOE R1M3	com	00	active
0030	cycles	PPPOE R1M3	com	00	active
0031	cycles	PPPOE R1M3	com	00	active
0032	cycles	PPPOE R1M3	com	00	active
0033	cycles	PPPOE R1M3	com	00	active
0034	cycles	PPPOE R1M3	com	00	active
0035	cycles	PPPOE R1M3	com	00	active
0036	cycles	PPPOE R1M3	com	00	active
0037	cycles	PPPOE R1M3	com	00	active
0038	cycles	PPPOE R1M3	com	00	active
0039	cycles	PPPOE R1M3	com	00	active
0040	cycles	PPPOE R1M3	com	00	active
0041	cycles	PPPOE R1M3	com	00	active
0042	cycles	PPPOE R1M3	com	00	active
0043	cycles	PPPOE R1M3	com	00	active
0044	cycles	PPPOE R1M3	com	00	active
0045	cycles	PPPOE R1M3	com	00	active
0046	cycles	PPPOE R1M3	com	00	active
0047	cycles	PPPOE R1M3	com	00	active
0048	cycles	PPPOE R1M3	com	00	active
0049	cycles	PPPOE R1M3	com	00	active
0050	cycles	PPPOE R1M3	com	00	active
0051	cycles	PPPOE R1M3	com	00	active
0052	cycles	PPPOE R1M3	com	00	active
0053	cycles	PPPOE R1M3	com	00	active
0054	cycles	PPPOE R1M3	com	00	active
0055	cycles	PPPOE R1M3	com	00	active
0056	cycles	PPPOE R1M3	com	00	active
0057	cycles	PPPOE R1M3	com	00	active
0058	cycles	PPPOE R1M3	com	00	active
0059	cycles	PPPOE R1M3	com	00	active
0060	cycles	PPPOE R1M3	com	00	active
0061	cycles	PPPOE R1M3	com	00	active
0062	cycles	PPPOE R1M3	com	00	active
0063	cycles	PPPOE R1M3	com	00	active
0064	cycles	PPPOE R1M3	com	00	active
0065	cycles	PPPOE R1M3	com	00	active
0066	cycles	PPPOE R1M3	com	00	active
0067	cycles	PPPOE R1M3	com	00	active
0068	cycles	PPPOE R1M3	com	00	active
0069	cycles	PPPOE R1M3	com	00	active
0070	cycles	PPPOE R1M3	com	00	active
0071	cycles	PPPOE R1M3	com	00	active
0072	cycles	PPPOE R1M3	com	00	active
0073	cycles	PPPOE R1M3	com	00	active
0074	cycles	PPPOE R1M3	com	00	active
0075	cycles	PPPOE R1M3	com	00	active
0076	cycles	PPPOE R1M3	com	00	active
0077	cycles	PPPOE R1M3	com	00	active
0078	cycles	PPPOE R1M3	com	00	active
0079	cycles	PPPOE R1M3	com	00	active
0080	cycles	PPPOE R1M3	com	00	active
0081	cycles	PPPOE R1M3	com	00	active
0082	cycles	PPPOE R1M3	com	00	active
0083	cycles	PPPOE R1M3	com	00	active
0084	cycles	PPPOE R1M3	com	00	active
0085	cycles	PPPOE R1M3	com	00	active
0086	cycles	PPPOE R1M3	com	00	active
0087	cycles	PPPOE R1M3	com	00	active
0088	cycles	PPPOE R1M3	com	00	active
0089	cycles	PPPOE R1M3	com	00	active
0090	cycles	PPPOE R1M3	com	00	active
0091	cycles	PPPOE R1M3	com	00	active
0092	cycles	PPPOE R1M3	com	00	active
0093	cycles	PPPOE R1M3	com	00	active
0094	cycles	PPPOE R1M3	com	00	active
0095	cycles	PPPOE R1M3	com	00	active
0096	cycles	PPPOE R1M3	com	00	active
0097	cycles	PPPOE R1M3	com	00	active
0098	cycles	PPPOE R1M3	com	00	active
0099	cycles	PPPOE R1M3	com	00	active
0100	cycles	PPPOE R1M3	com	00	active



Part of the NMS family

NMS provides a comprehensive solution to improving the end-user experience. From monitoring the application response time at the desktop through to monitoring the performance and availability of the entire IT infrastructure including Cisco IOS devices, NMS is the only product that can give you a complete 360 degree view of business critical services. All NMS information is correlated to business service dashboards and measured against pre-defined Service Level Agreements to warn you against SLA threatening conditions.

In addition to the NMS IP SLA Monitoring solution, modules exist for monitoring Windows, UNIX, Linux, AS400/iSeries and Novell Netware. These are complimented by database monitoring modules for all common databases, application modules for Exchange, Lotus Notes and other widely deployed applications and full management of your network infrastructure, including routers, switches, firewalls etc.

NMS is a rapidly deployed solution that requires minimal customization and administration.

Key Features

DHCP (Dynamic Host Configuration Protocol)

Measures the roundtrip time taken to discover a DHCP server and obtain a lease from it. The lease is then released after the operation.

DNS (Domain Name System)

Measures the time required to send a DNS request and receive a reply. If a hostname is specified, the operation queries for an IP, and vice versa.

Echo

Measures the time taken to send an ICMP (Internet Control Message Protocol) message to a destination and receive a reply.

FTP (File Transfer Protocol)

Measures the time required to transfer a file from a remote FTP server to the source.

HTTP (HyperText Transfer Protocol)

Measures the round trip time taken to connect and access data from a HTTP server.

Jitter

Measures the delay, delay variance, and packet loss in a network by generating synthetic UDP data. The operation sends a certain number of packets (specified by the "Packets" field), each of a certain size (specified by the "Packet size" field), a certain number of milliseconds apart. Requires a target which supports IP SLA agents.

UDPEcho

Measures the UDP (User Datagram Protocol) response time between the source and target. The target must be a device which supports UDP Echo Service (UDP port 7) or another IP SLA agent.

TCPConnect

Measures the time taken by the source to perform a TCP (Transmission Control Protocol) connect operation to the target device (which can be any IP device and does not necessarily need to support IP SLA). Specify the target port number to test a specific TCP protocol (i.e. 21 (ftp), 22 (ssh), 23 (telnet), 80 (http), etc.).

About Nimsoft

Nimsoft is the fastest growing provider of next-generation performance and availability monitoring solutions for the complete physical, virtual, and cloud-based IT infrastructure. Nimsoft solutions redefine the standards for ease of use and speed of deployment—providing outstanding return on investment and unparalleled customer satisfaction. Over 800 customers in 36 countries rely on Nimsoft solutions to monitor their IT-based business applications and services, including cloud environments. These customers include mid-market and global organizations, such as Barclays Capital, Amway Corporation, Bay Area Rapid Transit, Ladbrokes, MTU Aero Engines, TriNet, and TRW Automotive, and hundreds of leading managed service providers, such as CDW Hosting Services, ENKI, Thomas Duryea, Easynet, and Rackspace Managed Hosting. For more information, visit www.nimsoft.com.

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