Network Monitoring System

OVERVIEW

NOVUS, **NMS**, an innovative web-based system has introduced automation for day to day Active network monitoring, Network monitoring is a part of network management. There is Vendor-agnostic way to monitor parameters like device Availability, CPU process, memory utilization, bandwidth Utilization, Rx, Tx etc. directly as well as through user-created VLANs.

About:

The system proactively finds performance issues and bottleneck at the initial stage. Network administrator is kept updated through E-mail, SMS or other alarm systems. Effective proactive monitoring prevents network downtime or failures

Features:

- ✓ One Platform multivendor Solution.
- ✓ Auto Device discovery.
- ✓ SNMP and ICMP support.
- ✓ Network and E-map.
- ✓ SLA Management and E-mail alert.
- ✓ Device performance monitor.
- ✓ Intelligent and active reporting.
- ✓ Easy backup and restore.

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Server or Embedded Your Choice!

Server Model:

For server model, software is distributed as a complete package in the executable format. It can be easily imported into Linux operating system such as Ubuntu. Server distribution is tailor-made for large organization handling humongous amount of data.

Embedded Model: -

In this model, software is delivered on an embedded mini-computer. The ready to use solution can be installed at a drop of a hat by installer. The system can be made running by connecting to power supply and Ethernet cable. Embedded system distribution is ideal for SME. Initial cost is minimized as there is no requirement for a dedicated server.

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Features

One Platform multivendor Solution

360° monitoring of network infrastructure is done through a single dashboard. Network admin can modify device role or create new ones from the scratch. Monitoring is performed by sending watchdog messages to host over the network for verification
The flexible monitoring allows for addition/deletion of devices without worrying about compatibilty issues. Besides, customer can make optimum utilization of multi-vendor resource by configuring on a single network.

Performance Scan

Continuous monitoring maximizes network availability by taking corrective actions in case of outages and fault occurrence.
Immediate notifications provide enough back up time for resolution, in absence of a central monitoring time loss could result in a mishap or disaster.

SLA/Escalation Management

Escalation matrix allows you to specify multiple user contacts to be notified in the event of critical issues. These contact details are presented to the service delivery NOC while creating or updating an alert. Time period can also be defined for escalating to higher level.

Alerts can be assigned to a primary (Level 1) owner and can be escalated to two next levels automatically. These levels are called Level 2 and Level 3 respectively

Enhanced and Active Reporting

It provides immediate detail of down device. The report of down device can be viewed on different duration ranging from 1 hour to 7 days. Report can be generated in file formats like CSV, excel and pdf. Details of the down devices like name, IP address and parent switch connection are also available.

Archiving record is essential for monitoring and analysis purposes. Record can also be useful for certain unfortunate incidents.

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Realtime Monitoring

All the devices are continuously monitored for fault or any aberration.

Communication is established via ping, ICMP and SNMP.

User informed through e-mail alert in case of any alarm, so that an appropriate action can be taken to prevent any mishap.

Alarms & Alerts

Notifications are sent to admin and concerned user via e-mail, text and logging. Threshold limit is set for triggering alarm systems in order to alert the user or admin. Investigation is done proactively so that user or admin can take corrective actions before the device fails altogether. Alerts are generally sent after polling of network devices for its respective status are performed. Alerts are generated only for devices with some issues or unusual deviation from the standard behavior.

Network MAP

NMS does automatic scanning of all the network devices via multiple protocols. There is a library of monitoring templates that defines the way to monitor a device. Visualization is generated of the physical and virtual network connectivity.

NMS generates a color-coded network maps which is a powerful tool that enables the user to visualize the network.

Backup and Restore

NMS makes sure that all the data are securely backed up. In case of any aberration, organization data can be restored to its original form. Backup and restore features another layer of security in the existing system.

All the relevant files are neatly backed up in event of any exceptional circumstances. Back up files could be restored to its original position without any hassle.

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Web Management Interface

NMS equipped with built an innovative web-based management interface. Existing software can be immaculately scaled to higher or lower level based on requirements. User based role can be assigned for multi-tier web-based software access.

system supports simultaneous web admin session for multiple user. This ensures network monitoring software can be accessed from multiple location and devices.

Software Specifications

Parameters	Description
Management	Web based management
Operating System	Linux (Ubuntu 14.04 or Higher)
Database	MY SQL
Notifications	dashboard and email notification
Protocol	SNMP, ICMP, TCP/IP, HTTP, SSH, etc.
Features	Live & static dashboard, SLA/Escalation management, Performance Scan, Alarms, Report and dashboard, Role based access,
Other Features	Network and E-map, Syslog monitoring, QoS monitoring, User accounts, Export and Import, E-mail alert.

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Hardware Requirements for Server Model

Parameters	Description
CPU	Intel Xeon i5 Or Higher
RAM	8 GB
HDD	500 GB OR More as per requirements
Network Interface	1x 10/100/1000 Mbps
Devices	Unlimited (Hardware configuration will differ for no of IP devices)
Operating System	UBUNTU 14.04 or Higher
Database	My SQL
Management Interface	Web Based Management (Chrome, Mozilla, Edge)
System Architecture	Web Based, Multi-tier system

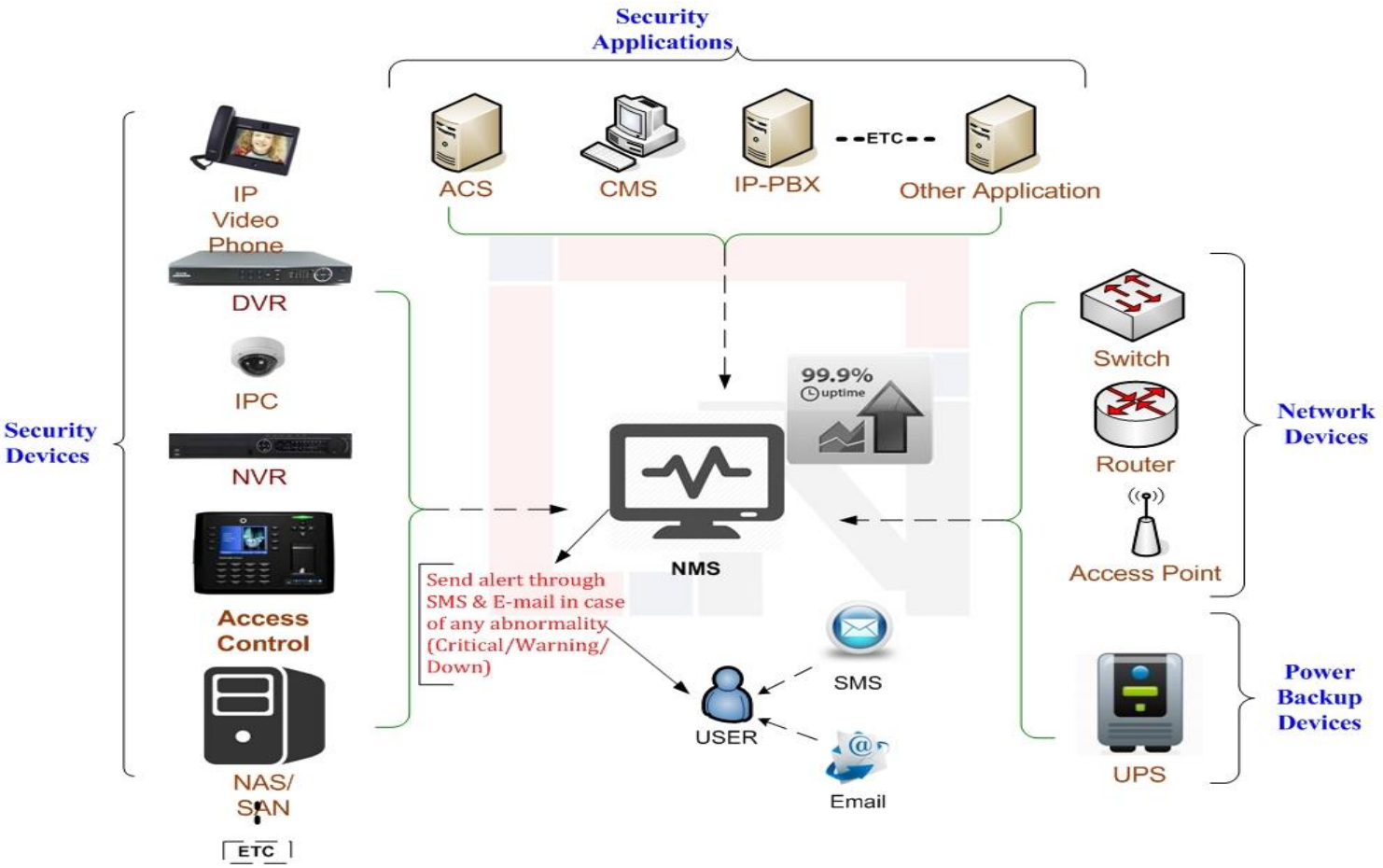
*Specs may change as per device configuration

Hardware Specifications for Embedded Model

Parameters	Description
Model	NS-NMS
CPU	Arm, Quad Core @ 1.8GHz
Memory	2 GB
Storage	16 GB eMMC
Display	1×HDMI, 1x VGA
Communication Interface	TCP-IP, 1x 100/1000 LAN
USB	2x USB
Working temperature	-20~+50°C
Power	5 V DC
Size	126 mm× 91.3mm

Parameters	Description
Devices	250
OS	Embedded Linux
Database	My SQL
Management Interface	Web Based Management (Chrome, Mozilla, Edge)
System Architecture	Web Based, Multi-tier system

Network Architecture:



Disclaimer: Brief product specifications are mentioned, that may change without prior notice, please check with OEM before purchase. Images are shown for reference only; actual product may differ due to product enhancement.