

NetkaView Network Manager

UNIFIED INFRASTRUCTURE MANAGEMENT SOLUTION

Product Highlights

- NNMX virtual appliance (VA) is supported to run on VMware ESXi, Red Hat KVM, Microsoft Hyper-V and can be deployed within minutes
- Major design changes of user interface. User friendly with HTML5 technology for best results on both PC and mobile devices
- Includes new centralized polling management via web GUI
- New GIS Dashboard
- New 4x faster Syslog engine
- New 4x faster SNMP-Trap engine
- Supports alerting via Email and LINE application



NetkaView Network Manager X Overview

NetkaView Network Manager X or NNMX is a carrier-grade IT infrastructure management software which provides the Fault, Configuration, Accounting, Performance and Security management (FCAPS) for managing multi-vendor IP networking & security devices, Servers, Virtual machines, IP camera and other IT infrastructure devices with unified formatting data representation.

NNMX can manage multi-vendor IP devices with SNMP, Telnet, SSH and ICMP protocol. With a powerful web portal which is included in the product. The powerful web portal allows to create customized dashboard views, based on user level, networks or geographic location. It also enables users to export their own usage reports, including availability, traffic utilization, link performance, application usage, etc.

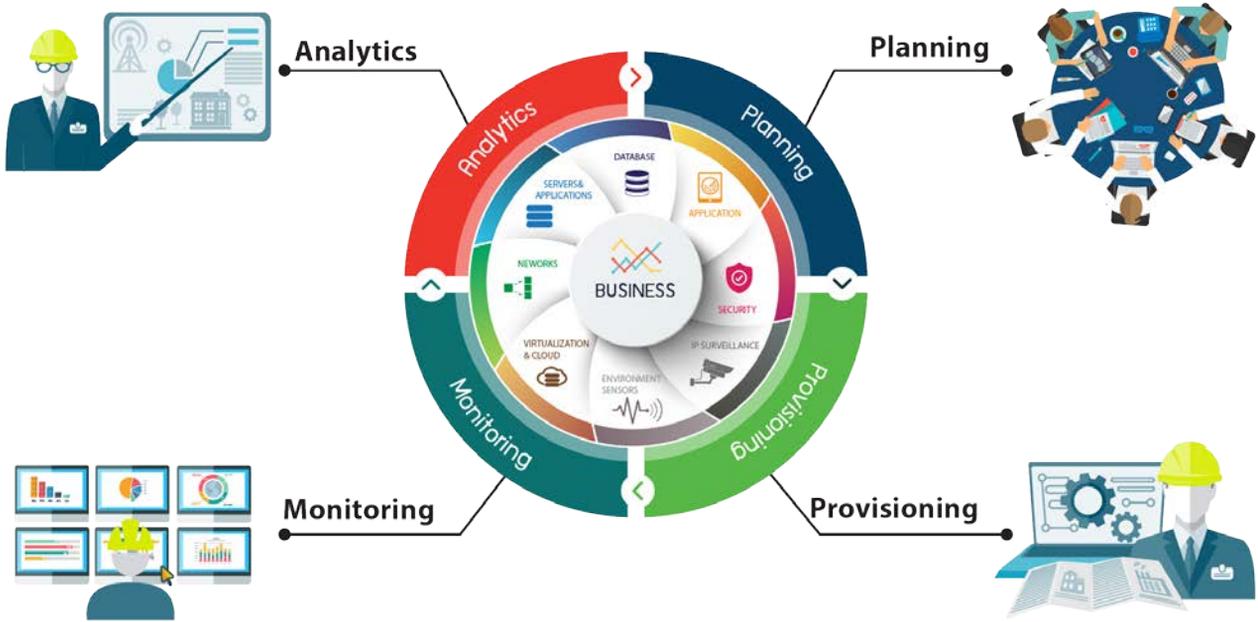
NNMX is the selected choice for renowned companies, small and medium enterprise, big enterprise, national and international from all kind of business sectors and sizes, among them service provider, transportation, governmental institutions, utilities and enterprises.

Any event that occurs inside the infrastructure can be displayed in real-time using features like event suppression, event correlation, automatic event clearing and root cause analysis. Filter events based on severity, process, ignore action, backbone and customer link.

NNMX supports alerts through email, SMS, social apps like LINE application, or sound alarm to notify about the network status in near real time 24 hours daily. Alerts can be raised by Syslog, SNMP traps and change logs. Be aware of the problem while or even before it happens and enabled to solve it as fast as possible at the first-tier support.



Perfectly designed to address the needs of IT Operations Management (ITOM)



4 Pillars of IT Infrastructure Operations

- **Planning** your IT infrastructure to address the needs of business
- **Provisioning** or implementing your IT infrastructure based on desired plans
- **Monitoring** your IT infrastructure to keep services running continuously
- **Analytics** to measure your IT infrastructure for future expansion and optimization of business demands

Key Advantages

- Manage multi-vendor IP devices, Servers (Windows, Linux, UNIX, Solaris), Virtual machine and multi-networking technologies in one product
- Proactively monitors and alerts if network utilization is above threshold or network quality below threshold
- Alerts when IT infrastructure has any type of issue, including alarm, status, utilization, spike, error or quality
- Summarizes overall network status, utilization, top N statistic, network quality and events in dashboards with drill-down feature
- Handle and manage plenty of network events with top-class event management and tools including Event Suppression, Event Correlation, Event Holding, Event Escalation, Event Journal, Auto Event Clearing and Root Cause Analysis



Technologies and Innovation



Multi-X Management

- ✓ Multi-Vendor
- ✓ Multi-OS platform
- ✓ Multi-Networking technologies
- ✓ Multi-Scale infrastructure



High Speed

- ✓ High speed distributed polling engine supports efficient polling of large networks
- ✓ Automatic discovery and polling



Monitor & Alert

- ✓ Proactive monitoring and alerting, even before incident will happen
- ✓ Alerts send out via email, SMS, LINE application



Event Management

- ✓ Handle and manage plenty of IT events with top-class event management and tools including even filtering, event suppression, event correlation, root cause analysis and event escalation



Ease of Use

- ✓ Reduce administrator work (automatic discovery and polling with less setup)
- ✓ Stability and less maintenance (self backup, self cleaning)
- ✓ Fast deployment of virtual appliance, up and running on hypervisors within a few minutes



Dashboard

- ✓ Single pane of view for total IT infrastructure, server and application health
- ✓ Custom views as needed
- ✓ Drill-down, drill-up for more detail and overall status



Multi Tenancy

- ✓ Powerful role-based access control based on combination of user level & privileges, geography, network and customer



Troubleshooting

- ✓ Troubleshoot network performance issues effectively with top-class traffic and network quality analysis

Product Features

Seamless integration of NNMX and IP Surveillance/CCTV

NNMX also adds a fantastic feature called Live Streaming, allowing users to instantly view live events from each CCTV cameras, by simply using the mouse-click on the display screen. Moreover, NNMX can be enhanced site-environment management of data centers, including motion-control, door sensors, RFID access, and even the detection of fuel theft from generators. And Protect yourself from legal issues caused by camera blackouts or missing footage.



Solution Highlights

- Monitoring IP Surveillance/CCTV by centralizing in a single pane or on a single screen.
- Enhanced site-environment management of data centers.
- Switch from the IP surveillance monitoring page to the camera's live view.
- Protect yourself from legal issues caused by camera blackouts or missing footage.
- Proactive monitoring and alerting via E-mail, SMS, Line
- Minimize downtime by bringing your services back online immediately.





VLAN Diagram

Automatic discovery and visualization of VLAN topology diagram.



Server Performance Status

View comprehensive server performance information, such as CPU utilization, Memory utilization, Disk usage, Process utilization, Windows service status and installed software.



Custom Map Network Diagram

Animate network diagrams as layer over your own map, in hierarchical order with drill down feature from country map, provincial map, campus map, building map, floor plan, room down to the rack. You can upload map files as images i.e. jpg, png, gif or bmp.



Traffic Monitoring View

Display traffic utilization (bandwidth) for each interface.

Product Features

Automated Device Discovery

The scan and discovery function supports automatic detection of new devices as soon as they are present, or time scheduled updates of the infrastructure, which helps to minimize the workload of network administrators significantly

Traffic Monitoring View

Display traffic utilization (bandwidth) for each interface

Multicast Network Diagram

Visualize multicast distribution tree through network diagram to identify multicast receivers

Executive View

Executive View will display overall current IT infrastructure information, status and statistics. Latest network events will be shown in Executive View as well

Hierarchical Network View

Near real-time node status and alarm severity will be shown in hierarchical diagram based on hierarchical location. Status will be classified by color and distinguish product types by icon and display iconic alarm if available. Hostname, IP address, Product vendor name, OS type, OS version, CPU core, Memory size, Hard disk size, Location and Contact will be displayed on node

Connection Path

NNMX can automatically generate L2 and L3 paths to visualize which nodes are connected by which interface from selected source to selected destination

Environment Status

NNMX can check network device's components e.g. Power supply, Ventilation fan, Temperature sensor and reports when any component failure takes place

Based line Utilization Monitoring

Graph will display automatically 75% baseline if traffic reaches or is above 75%. You can also modify the baseline to be drawn at the percentile value that you specify

Connection List

Automatic discovery of connections between network devices or end devices i.e. Server, PC, IP phone, Printer, which are connected to a switch. Get clarity about which switch interface is connected to which end device with IP and MAC addresses

Alert Rules

Create your own flexible setup rules and alerts via SMS, Email, LINE messenger when alert rule matches for the conditions assigned

Variety of views enables you to monitor efficiently and profile based for future operation

- Traffic View
- Packet View
- Process View
- Service View
- Interface View
- CPU View
- RTT View

Heat Map Diagram

NNMX Enterprise Edition provides a Heat Map Diagram in addition to the Network Diagram, with the enhancement to display network utilization including link utilization, cpu utilization, memory utilization on the diagram. With Heat Map Diagram, you can pin-point performance problems in your network easily

Live Graph

NNMX Enterprise Edition provides Live Graph tool to monitor CPU utilization, Memory utilization, Traffic utilization and any specific OID value in real-time

GUI Chassis View

Chassis View graphically displays the front or back panel of both standalone and modular network devices with current status of port and entity. You can drilldown to view historical traffic utilization, port status and view service impact in case of an entity failure

Product Features

Perform Node Inventory Management

Inventory report for hardware includes slot, module, interface, model, serial number, hardware revision, firmware revision, software revision and latest status of each entity. Search and filter for entity name, model and serial number.

Alarm Threshold and Alert Rule

Provides proactive monitoring with event alerts via Email, SMS, LINE and also alerts you if network utilization above threshold or network quality below threshold (status, CPU, memory, traffic, error, discard). Alarm view will display near real-time information

Custom Dashboard

Create your own dashboards which display IT health based on your demands and summarize overall status in a dashboard with drill-down feature

VLAN and Layer 2 Network Diagram

Provides layer 2 network diagram visibility including switch, VLAN trunk and VLAN access port. VLAN Trunks visualize which VLANs are allowed in each trunk, VLAN access ports which physical interfaces belong to each VLAN. You can also drill down to view node and interface statistics from VLAN diagram

Heat Chart

Heat Charts provide data at what time at a day the utilization is high or low for the whole month, displayed with color coding. Drill-down to see utilization details for each day. NNMX includes heat chart for traffic, CPU and memory utilization

IP Address Reconciliation

Reconcile allocated IP addresses versus configured IP addresses which are operated. IP address reconciliation report includes tabular data and chart

Agentless Management

Supports network devices, Windows, Linux, and Solaris operating system with agentless management

Enhanced Session Access and User Account

Unlimited user / Unlimited session / Unlimited GUI access

DOM View

Digital Optical Monitoring (DOM) View will display digital optical statistical values i.e. Power loss, Tx power, Rx power, Temperature, Voltage and DOM-supported SFP or GBIC in real time or for up to 3 days in the past

Web Portal

With NetkaView® Network Manager X, you can create various portals for different operational teams and clients. Design web portal by User level (Privileges), Geographic Location

Audit Trail Report

Display historical system logs or audit trail for user activity, tracked by date, time and IP address

Auto Report Generator

Schedule date and time to generate reports automatically by daily, weekly, monthly, quarterly, and yearly

Provisioning Tools

Interface provisioning tool (configure description, activate/deactivate port), VLAN Access Port Provisioning, VLAN Trunk Port Provisioning, VLAN Path Provisioning, Access Control List Provisioning

IP Address and VLAN Allocation

Keep track of IP addresses and VLANs with this resources management tool

Server Summary Report

Server Summary Report contains CPU, memory, virtual memory, disk and interface utilization graph. Select the server and a period of date and time for which you would like to generate a report in table or graphical format. Minimum, average and maximum will be calculated for each report

Powerful Access Management with Privilege & Role-based Access Control

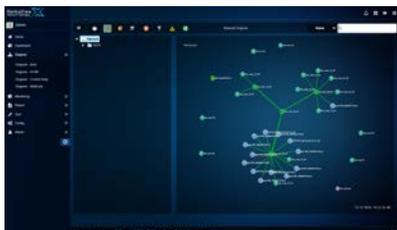
Role-based access control provides privileged level access for the web portal and Multi admin level.

Permission management by department or division



Configuration Management

Provides a set of tools to deploy configuration templates for multiple devices at a scheduled time. The set includes: Config view, Daily config backup, Config restore, Configuration Historical Search, Compare, Change detect and alert and Web commands tool



Network Diagram

Automatic discovery and polling shows links of all connected devices in the network automatically



Event Management View

Handle and manage plenty of network events with top-class event management tools such as Event Summary View, Event Filtering, Event Correlation and Root Cause Analysis (RCA)



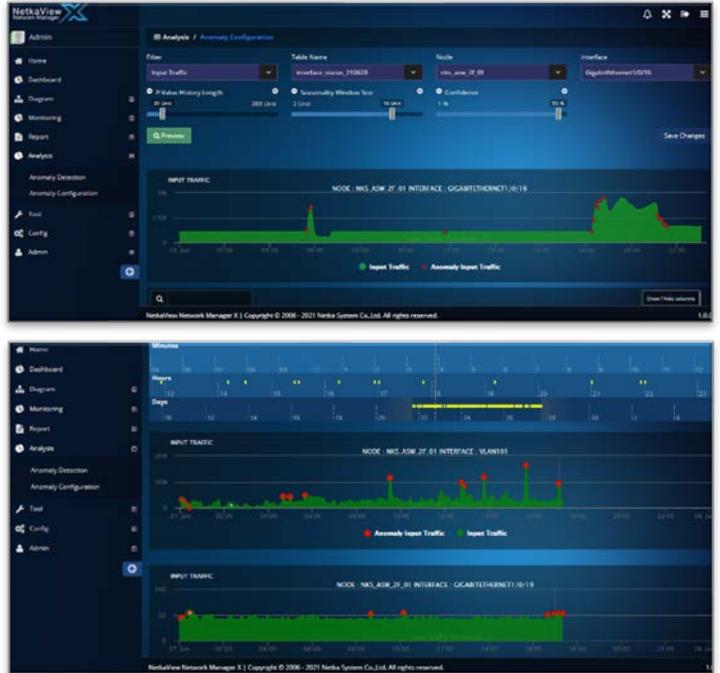
Software Reports

Software report shows a list of installed software including installation date and time

Product Features

Anomaly Detection

NNMX analyses the data into information for monitoring network utilization (including Nodes, Interfaces, CPU, Memory, Bandwidth usage, Network traffic details, Network trends and anomalies, Performance metrics, and so on). NNMX monitoring tool can greatly improve the security of a network and offers increased control for IT operation teams. NNMX can tip network administrators on warning signs that may indicate a possible attack, for example, if detect an unusual amount of usage on a port. Network bandwidth and traffic reports provide critical information that helps to detect traffic anomalies. NNMX can quickly and seamlessly be applied to existing related technologies such as NetkaQuartz Service Desk for automated open ticket, or Netka AIOps Director for automated the specific playbooks.



** Additional NNMX Artificial Intelligence Module License is required **

Workflow Automation

NNMX’s powerful workflow helps you automate your troubleshooting task easily. NNMX also streamlines IT infrastructure monitoring workflows by letting you initiate management tools directly from the interactive map to resolve issues quickly.



** Additional NNMX Artificial Intelligence Module License is required **



Product Features

Standard Protocol Support

- SNMPv1, SNMPv2c, SNMPv3
- Telnet, SSH1, SSH2, ICMP, WMI
- SMTP, Syslog, SNMP trap, LINE application
- TCP, UDP, FTP, DNS, LLDP, CDP, FDP, BRIDGE-MIB
- AVC, QOS, MD5, SHA, DES, 3DES, AES
- Real-time Streaming Protocol (RTSP)
- Support IPv4, IPv6
- Support Network Time Protocol (NTP) as system time reference for all alarm, monitoring, report, etc.

Platform Support

- Microsoft Windows, Linux, Unix, Oracle Solaris, AIX, HP-UX, VMware

Networking Technologies Support

- Router, Switch, Firewall, Wireless AP, etc.

Web-based Technologies Support

- HTML5 browser support
- Web browser support such as Google Chrome, Mozilla Firefox, Safari
- HTTP, HTTPS, GUI (Graphical User Interface)
- Web portals based on
 - ✓ VPN
 - ✓ User level (privileges)
 - ✓ Network device group (NDG)
 - ✓ Geographic (location)

Alert Method Support

- Email, SMS, LINE application

System Service Support

- DNS, DHCP, Database, LDAP, Active Directory, Web service, etc.

Top N Summary Report

- Top N summary report contains overall network statistic charts including
 - ✓ Top N CPU Utilization
 - ✓ Top N Memory Utilization
 - ✓ Top N Response Time
 - ✓ Top N Packet Loss
 - ✓ Top N Utilization (bps, %)
 - ✓ Top N Error Packet
 - ✓ Top N Discard Packet
 - ✓ Top N Unicast Packet
 - ✓ Top N Multicast Packet
 - ✓ Top N Broadcast Packet

Simplify Overall Network Status

- Node CPU and memory utilization
- Node/Interface status and availability (uptime, downtime, %)
- Interface traffic, error, discard for physical and logical interface
- Network device response time and packet loss
- Unicast, Multicast, Broadcast, non-Unicast packet statistic

Export Reports in Various File Formats

- Variety of formats for export reports as PDF and CSV.
- Graphic report is able to zoom in/out and to change graph type such as Area, Line, Pie, Bar

High Availability (add-on license)

- Provides automatic failover of NNMx to ensure that NMS is always up and running

Integration with NetkaQuartz Service Desk

- Seamless integration and context sensitive cross launch of NetkaQuartz Service Desk allows the system to open tickets automatically without additional license costs
- Identifying network faults, performance issues and open, update and close tickets automatically in your third party service desk solution

Integration with Third Party Software

- Third party API integration to add functionality
- Export reports in PDF and CSV
- Node/Interface/Packet summary report
- Top N report for CPU, Memory, Traffic (%), Error, Discard packet rate
- Provide event report to display Syslog or SNMP trap received from selected device
- Inventory change log and preventive maintenance
- Environmental status and temperature statistic
- Availability report to display, availability (%) of devices (Node / Interface), daily and monthly status change log
- Trend analysis report information for preventive and usage resource allocation and capacity planning

PREREQUISITES

The following list specify the prerequisites in order to deploy NetkaView Network Manager X.

Hypervisor

NetkaView Network Manager X is a virtual appliance designed to deploy and operate under a hypervisor. Supported hypervisors are:

- VMware vSphere and VMware Workstation
- Microsoft Hyper-V
- Red Hat KVM

VM Resources

During the deployment of the VA it might be necessary to adjust resources e.g. vCPU, vMemory, vDisk according to size of the network which shall be managed. The following matrix list recommended resources to manage various sizes of networks with ICMP and SNMP enabled for fault, performance and inventory management.

Number of NE	Number of Interface	vCPU	vMem (GB)	Disk (GB)			
				6 months	1 year	2 years	3 years
1 – 50	1 – 2,500	4	4	100	150	250	350
50 – 100	2,501 – 5,000	6	6	150	250	400	600
101 – 200	5,001 – 10,000	8	8	250	400	750	1,100
201 – 300	10,001 – 15,000	12	12	350	600	1,100	1,800
301 – 400	15,001 – 20,000	16	16	400	750	1,500	2,200
401 – 500	20,001 – 25,000	20	20	500	950	2,000	2,700

Product Features

The following table shows a feature comparison of NetkaView Network Manager X for each available edition.

FEATURES	STANDARD EDITION	PROFESSIONAL EDITION	ENTERPRISE EDITION	EXPRESS EDITION
Network Topology Map, Automatic Node / Interface Discovery	✓	✓	✓	✓
VLAN and Layer 2 Network Diagram	✓	✓	✓	
Node / Interface Status / Interface Availability	✓	✓	✓	✓
Node CPU Utilization / Memory Utilization / Buffer Hit / Buffer Miss Rate	✓	✓	✓	✓
Interface Traffic Rate (bps, %), Interface Error / Discard Rate (pps)	✓	✓	✓	✓
Interface Unicast / Multicast / Broadcast / Non-Unicast Rate (pps)	✓	✓	✓	✓
Inventory (Product, Model, Serial Number, Description)	✓	✓	✓	✓
TE, GE Usage Summary	✓	✓	✓	✓
Web Command Line Tool, Web Ping / Trace Tool	✓	✓	✓	✓
Alarm Threshold for CPU Utilization, Memory Utilization	✓	✓	✓	✓
Alarm Threshold for Interface Utilization, Error, Discard	✓	✓	✓	✓
Alarm Threshold for Spiked Traffic	✓	✓	✓	✓
Alert via Email / SMS / LINE	✓	✓	✓	✓
Alert via Syslog / SNMP Trap		✓	✓	
Export to pdf, csv	✓	✓	✓	✓
Historical Data with RDBMS	✓	✓	✓	✓
Sub-Interface and VLAN Performance Report	✓	✓	✓	✓
Audit Trail Report / Web Access Statistic Report	✓	✓	✓	✓
Report View / Export Statistic Report	✓	✓	✓	✓
Configuration Backup / View / Search / Comparison / Change Alert	✓	✓	✓	✓
Configuration Deployment / Configuration Restoring	✓	✓	✓	✓
ARP, Forwarding, Routing Table Report	✓	✓	✓	
Connection List (WAN, LAN, End Device)	✓	✓	✓	
Ping Statistic, Hop Statistic Report	✓	✓	✓	
VLAN Access / Trunk Report	✓	✓	✓	
Unlimited User / Unlimited Session / Unlimited GUI Access	✓	✓	✓	✓
Web Portal by User Level (privilege) , Geographic	✓	✓	✓	✓
Web Portal by Network Device Group (NDG)	✓	✓	✓	
Multi-Page Traffic/Packet/CPU/Memory Utilization Real-Time Monitoring	✓	✓	✓	✓
Node Round Trip Time			✓	
Interface Statistic Real-Time Monitoring			✓	✓
Percentile Traffic Report	✓	✓	✓	✓
Multi Admin Level and Privilege	✓	✓	✓	✓
TopN CPU, Memory Utilization (%)	✓	✓	✓	✓
TopN Input/Output Traffic (bps, %), Error, Discard	✓	✓	✓	✓
TopN Input/Output Unicast (pps), Multicast (pps), Broadcast (pps)	✓	✓	✓	✓
Data Import Tool (CSV)	✓	✓	✓	✓
Automatic Database Rotation / Archiving	✓	✓	✓	✓
Environment Status, Temperature Monitoring / Report	✓	✓	✓	
Firewall Connection Statistic	✓	✓	✓	

Product Features

The following table shows a feature comparison of NetkaView Network Manager X for each available edition.

FEATURES	STANDARD EDITION	PROFESSIONAL EDITION	ENTERPRISE EDITION	EXPRESS EDITION
Alert rule for RTT/Packet Loss	✓	✓	✓	✓
Alert Rule Node CPU/Mem EE/PE		✓	✓	
Alert Rule Syslog/Trap PE/EE		✓	✓	
Alert Rule Interface traffic, error, discard /Process/Services ALL	✓	✓	✓	✓
Alert Report	✓	✓	✓	
Manage server OS i.e. Windows, Linux, UNIX, Solaris	✓	✓	✓	✓
Server CPU / Memory / Virtual Memory / Disk Utilization / Disk Read/Write IOPS	✓	✓	✓	✓
Server Process CPU / Memory Utilization, Windows Service Management	✓	✓	✓	✓
Alert rule for disk utilization, process utilization, windows service status	✓	✓	✓	✓
Support stacked switch	✓	✓	✓	✓
Virtual Appliance for fast deployment, fast startup, fast recovery	✓	✓	✓	✓
Enable/disable features on demand with valid product key	✓	✓	✓	✓
Centralized polling management via web GUI	✓	✓	✓	✓
Support alerts via LINE application	✓	✓	✓	✓
Real-time streaming protocol (RTSP)	✓	✓	✓	✓
Event Summary View, Event View with syslog and trap		✓	✓	
Syslog Server, Viewer and Report		✓	✓	
Trap Receiver, Viewer and Report		✓	✓	
Event Filtering / Suppression / Correlation / Auto Clearing / Holding / Escalation		✓	✓	
Event Template / Action Rule		✓	✓	
Event Journal (create trouble ticket, add work log & attachment for each event)		✓	✓	
Alert Rule for Incoming Syslog and Trap (alert via email / SMS)		✓	✓	
Syslog/SNMP Trap which processing rate increase up faster than old one about 4x		✓	✓	
Live Graph (CPU, Memory, Traffic, specific OID)			✓	✓
Trend Analysis Report			✓	✓
Auto Report Generator			✓	
Combined/Virtual Interface Report			✓	
Heat Chart for Traffic, CPU, Memory, Virtual Memory, Disk Utilization			✓	
IP Address / VLAN / Number Allocation, IP Address / Subnet Reconciliation			✓	
Access Control List Provisioning			✓	
Allow VLAN Provisioning, VLAN Trunk / VLAN Access			✓	
IOS Upgrading			✓	
Digital Optical Monitoring (DOM) Statistic (Tx/Rx Power, Tx/Rx Loss, Temperature)			✓	
Custom Map Network Diagram			✓	
GUI Chassis View			✓	✓
Heat Map Diagram (Weather Map)			✓	✓
Multicast Network Diagram and reports			✓	
DOM profile and alert rule for DOM			✓	
GIS Dashboard	✓	✓	✓	✓
Custom Dashboard	✓	✓	✓	✓
TopN, Network Map, Capacity Map, Traffic View	✓	✓	✓	✓

Ordering Information

Ordering information of NetkaView Network Manager X including part number and description for each edition can be viewed in the table below

ORDERING INFORMATION	
Part Number	Description
NetkaView Network Manager X Enterprise Edition	
NNMX-EE-000	NetkaView Network Manager X Enterprise Edition License
NNMX-EE-001	NetkaView Network Manager X Enterprise Edition (Unlimited Node/Interface) License
NNMX-EE-002	NetkaView Network Manager X Enterprise Edition (50 Node, 2.5K Interface) License
NNMX-EE-003	NetkaView Network Manager X Enterprise Edition (100 Node, 5K Interface) License
NNMX-EE-004	NetkaView Network Manager X Enterprise Edition (150 Node, 7.5K Interface) License
NNMX-EE-005	NetkaView Network Manager X Enterprise Edition (200 Node, 10K Interface) License
NNMX-EE-006	NetkaView Network Manager X Enterprise Edition (250 Node, 12.5K Interface) License
NNMX-EE-007	NetkaView Network Manager X Enterprise Edition (300 Node, 15K Interface) License
NNMX-EE-008	NetkaView Network Manager X Enterprise Edition (400 Node, 20K Interface) License
NNMX-EE-009	NetkaView Network Manager X Enterprise Edition (500 Node, 25K Interface) License
NNMX-EE-010	NetkaView Network Manager X Enterprise Edition (750 Node, 37.5K Interface) License
NNMX-EE-011	NetkaView Network Manager X Enterprise Edition (1,000 Node, 50K Interface) License
NNMX-EE-012	NetkaView Network Manager X Enterprise Edition (2,000 Node, 100K Interface) License
NNMX-EE-013	NetkaView Network Manager X Enterprise Edition (3,000 Node, 150K Interface) License
NNMX-EE-014	NetkaView Network Manager X Enterprise Edition (4,000 Node, 200K Interface) License
NNMX-EE-015	NetkaView Network Manager X Enterprise Edition (5,000 Node, 250K Interface) License
NNMX-EE-016	NetkaView Network Manager X Enterprise Edition (7,500 Node, 375K Interface) License
NNMX-EE-017	NetkaView Network Manager X Enterprise Edition (10,000 Node, 500K Interface) License
NNMX-EE-018	NetkaView Network Manager X Enterprise Edition (20,000 Node, 1,000K Interface) License
NNMX-EE-019	NetkaView Network Manager X Enterprise Edition (30,000 Node, 1,500K Interface) License
NNMX-EE-020	NetkaView Network Manager X Enterprise Edition (40,000 Node, 2,000K Interface) License
NetkaView Network Manager X Professional Edition	
NNMX-PE-000	NetkaView Network Manager X Professional Edition License
NNMX-PE-001	NetkaView Network Manager X Professional Edition (Unlimited Node/Interface) License
NNMX-PE-002	NetkaView Network Manager X Professional Edition (50 Node, 2.5K Interface) License
NNMX-PE-003	NetkaView Network Manager X Professional Edition (100 Node, 5K Interface) License
NNMX-PE-004	NetkaView Network Manager X Professional Edition (150 Node, 7.5K Interface) License
NNMX-PE-005	NetkaView Network Manager X Professional Edition (200 Node, 10K Interface) License
NNMX-PE-006	NetkaView Network Manager X Professional Edition (250 Node, 12.5K Interface) License
NNMX-PE-007	NetkaView Network Manager X Professional Edition (300 Node, 15K Interface) License
NNMX-PE-008	NetkaView Network Manager X Professional Edition (400 Node, 20K Interface) License
NNMX-PE-009	NetkaView Network Manager X Professional Edition (500 Node, 25K Interface) License
NNMX-PE-010	NetkaView Network Manager X Professional Edition (750 Node, 37.5K Interface) License
NNMX-PE-011	NetkaView Network Manager X Professional Edition (1,000 Node, 50K Interface) License
NNMX-PE-012	NetkaView Network Manager X Professional Edition (2,000 Node, 100K Interface) License
NNMX-PE-013	NetkaView Network Manager X Professional Edition (3,000 Node, 150K Interface) License
NNMX-PE-014	NetkaView Network Manager X Professional Edition (4,000 Node, 200K Interface) License
NNMX-PE-015	NetkaView Network Manager X Professional Edition (5,000 Node, 250K Interface) License
NNMX-PE-016	NetkaView Network Manager X Professional Edition (7,500 Node, 375K Interface) License
NNMX-PE-017	NetkaView Network Manager X Professional Edition (10,000 Node, 500K Interface) License
NNMX-PE-018	NetkaView Network Manager X Professional Edition (20,000 Node, 1,000K Interface) License
NNMX-PE-019	NetkaView Network Manager X Professional Edition (30,000 Node, 1,500K Interface) License
NNMX-PE-020	NetkaView Network Manager X Professional Edition (40,000 Node, 2,000K Interface) License

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NNMX-SE-003	NetkaView Network Manager X Standard Edition (100 Node, 5K Interface) License
NNMX-SE-004	NetkaView Network Manager X Standard Edition (150 Node, 7.5K Interface) License
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NNMX-SE-012	NetkaView Network Manager X Standard Edition (2,000 Node, 100K Interface) License
NNMX-SE-013	NetkaView Network Manager X Standard Edition (3,000 Node, 150K Interface) License
NNMX-SE-014	NetkaView Network Manager X Standard Edition (4,000 Node, 200K Interface) License
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NNMX-SE-018	NetkaView Network Manager X Standard Edition (20,000 Node, 1,000K Interface) License
NNMX-SE-019	NetkaView Network Manager X Standard Edition (30,000 Node, 1,500K Interface) License
NNMX-SE-020	NetkaView Network Manager X Standard Edition (40,000 Node, 2,000K Interface) License
NetkaView Network Manager X Express Edition	
NNMX-XE-001	NetkaView Network Manager X Express Edition (30 Node, 750 Interface) License
NNMX-XE-002	NetkaView Network Manager X Express Edition (50 Node, 1.25K Interface) License
NNMX-XE-003	NetkaView Network Manager X Express Edition (100 Node, 2.5K Interface) License
NNMX-XE-004	NetkaView Network Manager X Express Edition (150 Node, 3.75K Interface) License
NNMX-XE-005	NetkaView Network Manager X Express Edition (200 Node, 5K Interface) License
NNMX-XE-006	NetkaView Network Manager X Express Edition (250 Node, 6.25K Interface) License
NNMX-XE-007	NetkaView Network Manager X Express Edition (300 Node, 7.5K Interface) License
NNMX-XE-008	NetkaView Network Manager X Express Edition (400 Node, 10K Interface) License
NNMX-XE-009	NetkaView Network Manager X Express Edition (500 Node, 12.5K Interface) License
NNMX-XE-010	NetkaView Network Manager X Express Edition (750 Node, 37.5K Interface) License
NNMX-XE-011	NetkaView Network Manager X Express Edition (1,000 Node, 50K Interface) License
NNMX-XE-012	NetkaView Network Manager X Express Edition (2,000 Node, 100K Interface) License
NNMX-XE-013	NetkaView Network Manager X Express Edition (3,000 Node, 150K Interface) License
NNMX-XE-014	NetkaView Network Manager X Express Edition (4,000 Node, 200K Interface) License
NNMX-XE-015	NetkaView Network Manager X Express Edition (5,000 Node, 250K Interface) License
NNMX-XE-016	NetkaView Network Manager X Express Edition (7,500 Node, 375K Interface) License
NNMX-XE-017	NetkaView Network Manager X Express Edition (10,000 Node, 500K Interface) License

Ordering Information

Ordering information of NetkaView Network Manager X including part number and description for each edition can be viewed in the table below

ORDERING INFORMATION	
Part Number	Description
NetkaView Network Manager X Add-On License	
NNMX-EE-101	NetkaView Network Manager X Enterprise Edition Add-On (1 Node, 50 Interface) License
NNMX-EE-102	NetkaView Network Manager X Enterprise Edition Add-On (5 Node, 250 Interface) License
NNMX-EE-103	NetkaView Network Manager X Enterprise Edition Add-On (10 Node, 500 Interface) License
NNMX-PE-101	NetkaView Network Manager X Professional Edition Add-On (1 Node, 50 Interface) License
NNMX-PE-102	NetkaView Network Manager X Professional Edition Add-On (5 Node, 250 Interface) License
NNMX-PE-103	NetkaView Network Manager X Professional Edition Add-On (10 Node, 500 Interface) License
NNMX-SE-101	NetkaView Network Manager X Standard Edition Add-On (1 Node, 50 Interface) License
NNMX-SE-102	NetkaView Network Manager X Standard Edition Add-On (5 Node, 250 Interface) License
NNMX-SE-103	NetkaView Network Manager X Standard Edition Add-On (10 Node, 500 Interface) License
NNMX-XE-101	NetkaView Network Manager X Express Edition Add-On (1 Node, 50 Interface) License
NNMX-XE-102	NetkaView Network Manager X Express Edition Add-On (5 Node, 250 Interface) License
NNMX-XE-103	NetkaView Network Manager X Express Edition Add-On (10 Node, 500 Interface) License
NetkaView Network Manager X Module	
NNMX-NBI-001	NetkaView Network Manager X Northbound Interface Module (1 OSS) License
NNMX-DBRO-001	NetkaView Network Manager X Database Read-Only License
NNMX-CHBOT-001	NetkaView Network Manager X Chatbot Module License
NNMX-AI-001	NetkaView Network Manager X Artificial Intelligence Module License
NetkaView Network Manager X Upgrade SE to EE License	
NNMX-UPG-001	NetkaView Network Manager X Upgrade SE to EE (Unlimited Node/Interface) License
NNMX-UPG-002	NetkaView Network Manager X Upgrade SE to EE (50 Node, 2.5K Interface) License
NNMX-UPG-003	NetkaView Network Manager X Upgrade SE to EE (100 Node, 5K Interface) License
NNMX-UPG-004	NetkaView Network Manager X Upgrade SE to EE (150 Node, 7.5K Interface) License
NNMX-UPG-005	NetkaView Network Manager X Upgrade SE to EE (200 Node, 10K Interface) License
NNMX-UPG-006	NetkaView Network Manager X Upgrade SE to EE (250 Node, 12.5K Interface) License
NNMX-UPG-007	NetkaView Network Manager X Upgrade SE to EE (300 Node, 15K Interface) License
NNMX-UPG-008	NetkaView Network Manager X Upgrade SE to EE (400 Node, 20K Interface) License
NNMX-UPG-009	NetkaView Network Manager X Upgrade SE to EE (500 Node, 25K Interface) License
NNMX-UPG-010	NetkaView Network Manager X Upgrade SE to EE (750 Node, 37.5K Interface) License
NNMX-UPG-011	NetkaView Network Manager X Upgrade SE to EE (1,000 Node, 50K Interface) License
NNMX-UPG-012	NetkaView Network Manager X Upgrade SE to EE (2,000 Node, 100K Interface) License
NNMX-UPG-013	NetkaView Network Manager X Upgrade SE to EE (3,000 Node, 150K Interface) License
NNMX-UPG-014	NetkaView Network Manager X Upgrade SE to EE (4,000 Node, 200K Interface) License
NNMX-UPG-015	NetkaView Network Manager X Upgrade SE to EE (5,000 Node, 250K Interface) License
NNMX-UPG-016	NetkaView Network Manager X Upgrade SE to EE (7,500 Node, 375K Interface) License
NNMX-UPG-017	NetkaView Network Manager X Upgrade SE to EE (10,000 Node, 500K Interface) License
NNMX-UPG-018	NetkaView Network Manager X Upgrade SE to EE (20,000 Node, 1,000K Interface) License
NNMX-UPG-019	NetkaView Network Manager X Upgrade SE to EE (30,000 Node, 1,500K Interface) License
NNMX-UPG-020	NetkaView Network Manager X Upgrade SE to EE (40,000 Node, 2,000K Interface) License

Ordering Information

Ordering information of NetkaView Network Manager X including part number and description for each edition can be viewed in the table below

ORDERING INFORMATION	
Part Number	Description
NetkaView Network Manager X Upgrade SE to PE License	
NNMX-UPG-101	NetkaView Network Manager X Upgrade SE to PE (Unlimited Node/Interface) License
NNMX-UPG-102	NetkaView Network Manager X Upgrade SE to PE (50 Node, 2.5K Interface) License
NNMX-UPG-103	NetkaView Network Manager X Upgrade SE to PE (100 Node, 5K Interface) License
NNMX-UPG-104	NetkaView Network Manager X Upgrade SE to PE (150 Node, 7.5K Interface) License
NNMX-UPG-105	NetkaView Network Manager X Upgrade SE to PE (200 Node, 10K Interface) License
NNMX-UPG-106	NetkaView Network Manager X Upgrade SE to PE (250 Node, 12.5K Interface) License
NNMX-UPG-107	NetkaView Network Manager X Upgrade SE to PE (300 Node, 15K Interface) License
NNMX-UPG-108	NetkaView Network Manager X Upgrade SE to PE (400 Node, 20K Interface) License
NNMX-UPG-109	NetkaView Network Manager X Upgrade SE to PE (500 Node, 25K Interface) License
NNMX-UPG-110	NetkaView Network Manager X Upgrade SE to PE (750 Node, 37.5K Interface) License
NNMX-UPG-111	NetkaView Network Manager X Upgrade SE to PE (1,000 Node, 50K Interface) License
NNMX-UPG-112	NetkaView Network Manager X Upgrade SE to PE (2,000 Node, 100K Interface) License
NNMX-UPG-113	NetkaView Network Manager X Upgrade SE to PE (3,000 Node, 150K Interface) License
NNMX-UPG-114	NetkaView Network Manager X Upgrade SE to PE (4,000 Node, 200K Interface) License
NNMX-UPG-115	NetkaView Network Manager X Upgrade SE to PE (5,000 Node, 250K Interface) License
NNMX-UPG-116	NetkaView Network Manager X Upgrade SE to PE (7,500 Node, 375K Interface) License
NNMX-UPG-117	NetkaView Network Manager X Upgrade SE to PE (10,000 Node, 500K Interface) License
NNMX-UPG-118	NetkaView Network Manager X Upgrade SE to PE (20,000 Node, 1,000K Interface) License
NNMX-UPG-119	NetkaView Network Manager X Upgrade SE to PE (30,000 Node, 1,500K Interface) License
NNMX-UPG-120	NetkaView Network Manager X Upgrade SE to PE (40,000 Node, 2,000K Interface) License
NetkaView Network Manager X Upgrade PE to EE License	
NNMX-UPG-201	NetkaView Network Manager X Upgrade PE to EE (Unlimited Node/Interface) License
NNMX-UPG-202	NetkaView Network Manager X Upgrade PE to EE (50 Node, 2.5K Interface) License
NNMX-UPG-203	NetkaView Network Manager X Upgrade PE to EE (100 Node, 5K Interface) License
NNMX-UPG-204	NetkaView Network Manager X Upgrade PE to EE (150 Node, 7.5K Interface) License
NNMX-UPG-205	NetkaView Network Manager X Upgrade PE to EE (200 Node, 10K Interface) License
NNMX-UPG-206	NetkaView Network Manager X Upgrade PE to EE (250 Node, 12.5K Interface) License
NNMX-UPG-207	NetkaView Network Manager X Upgrade PE to EE (300 Node, 15K Interface) License
NNMX-UPG-208	NetkaView Network Manager X Upgrade PE to EE (400 Node, 20K Interface) License
NNMX-UPG-209	NetkaView Network Manager X Upgrade PE to EE (500 Node, 25K Interface) License
NNMX-UPG-210	NetkaView Network Manager X Upgrade PE to EE (750 Node, 37.5K Interface) License
NNMX-UPG-211	NetkaView Network Manager X Upgrade PE to EE (1,000 Node, 50K Interface) License
NNMX-UPG-212	NetkaView Network Manager X Upgrade PE to EE (2,000 Node, 100K Interface) License
NNMX-UPG-213	NetkaView Network Manager X Upgrade PE to EE (3,000 Node, 150K Interface) License
NNMX-UPG-214	NetkaView Network Manager X Upgrade PE to EE (4,000 Node, 200K Interface) License
NNMX-UPG-215	NetkaView Network Manager X Upgrade PE to EE (5,000 Node, 250K Interface) License
NNMX-UPG-216	NetkaView Network Manager X Upgrade PE to EE (7,500 Node, 375K Interface) License
NNMX-UPG-217	NetkaView Network Manager X Upgrade PE to EE (10,000 Node, 500K Interface) License
NNMX-UPG-218	NetkaView Network Manager X Upgrade PE to EE (20,000 Node, 1,000K Interface) License
NNMX-UPG-219	NetkaView Network Manager X Upgrade PE to EE (30,000 Node, 1,500K Interface) License
NNMX-UPG-220	NetkaView Network Manager X Upgrade PE to EE (40,000 Node, 2,000K Interface) License



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