

# NETWORK MANAGER FOR SUPERIOR CONTROL OF NIMBRA NETWORKS

## Nimbra Vision

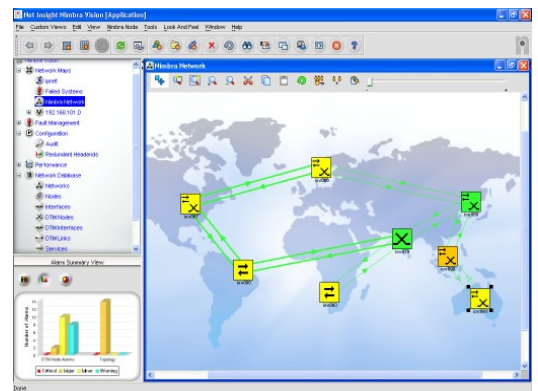
Nimbra Vision is a comprehensive network management tool providing a superior overview of the operation of a Nimbra network. With Nimbra Vision the operator has full control over the activities inside the network. While the Element Manager facilitates the precise operation of a certain node, the Network Manager gives a consolidated overview of the network status and enables end-to-end service provisioning at the network layer.

A centralized network view is key for keeping operating costs to a minimum. Nimbra Vision continuously monitors the network for faults and performance degradation. Centralized maintenance of the network is supported through the network-wide software upgrade and inventory functions.

Nimbra Vision allows the operator to provision services end-to-end across the network with full graphical support. Source and destination nodes are selected from the Nimbra Vision map. If automatic routing is chosen the actual route through the network may easily be displayed in the map using the Channel Trace function. Similarly, synchronization paths can be displayed using the Sync Trace function. The option of predefined source routing is also available in Nimbra Vision, again using the map to quickly define the path through the network.

The Nimbra Vision Network Manager is highly configurable to meet the operator needs of integration with existing systems. Collected data, whether it is fault, performance or network inventory data, can be searched and filtered in any order that suits the operator. Standard SNMP v1/v2c/v3 interfaces both towards the network elements and for configurable northbound generation of traps, ensures maximum compatibility with 3<sup>rd</sup> party equipment.

Scalability and reliability are key characteristics of the Nimbra Vision platform. The server functionality may be distributed among multiple hosts to improve performance in large networks and to increase the number of simultaneous users. Redundant servers with automatic failover switching is also supported.



**COMPREHENSIVE NETWORK VIEW  
WITH CONFIGURATION, ALARM AND  
PERFORMANCE CONSOLIDATION**



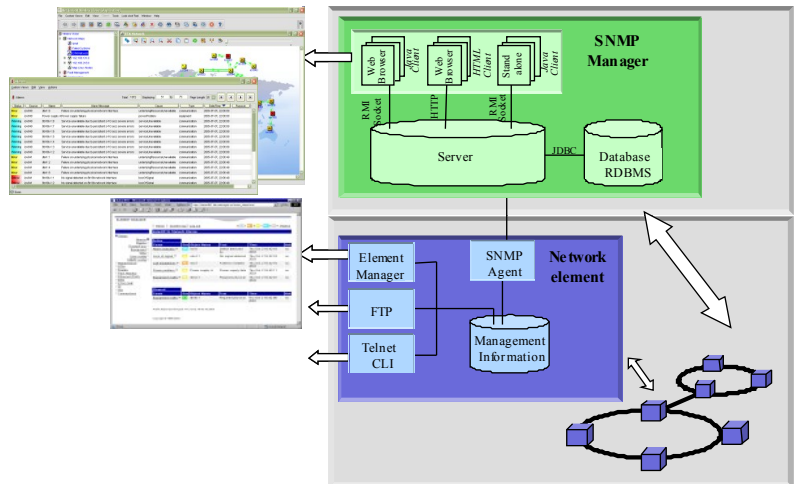
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## KEY FEATURES

The most important features and characteristics of the Nimbra Vision NMS are:

- > **Auto-discovery of devices.** Nimbra Vision automatically discovers installed nodes and links in the network.
- > **Topological device maps.** Nodes and links are presented in a dynamic topological map. Colors represent the alarm status and the thickness of the links represents capacity. A pop-up window may be opened, showing link information such as used and free capacity. The Element Manager (web/telnet) is accessed via the map and network database. An IP map shows the management network topology.
- > **Fault Management.** The status of nodes and links are reflected by their colors in the map. The alarm summary view displays the total number of alarms per severity. An alert browser lists all alarms in the network with powerful search and filtering functions.
- > **Performance Monitoring.** Presents G.826 reports generated by the network elements. Collects link usage data and plots statistics. It is also possible to generate alarms on threshold crossing.
- > **Service Provisioning.** Easy end-to-end provisioning of services by selecting the originating and terminating nodes from the map. Automatic and predefined routing.
- > **Head-End Protection.** Redundancy of Nimbra headend nodes is enabled by configuring primary and secondary connections. Nimbra Vision will activate the secondary connection in case of signal or node failure.
- > **Pre-emption.** In network failure situations or at service provisioning, Nimbra Vision may allow high-priority services to be rerouted by pre-empting low-priority services.
- > **End User Subnetworks.** Fine-Grained Authorization of operations and managed objects to users and groups allows operators to let their customers view, manage and provision services in only "their" part of the operator's network.



## TECHNICAL SPECIFICATIONS:

### Standards Compliance:

SNMP v1/v2c/v3

### Nimbra Vision Client:

Operating System: Windows XP/2003  
Java 6 plug-in

Hardware: Minimum 733MHz Pentium III, 256MB RAM, 200MB free disk

Browser: Internet Explorer 5.5/6.0/6.1/7.0  
Firefox 1.x/2.x  
Mozilla 1.4 or later  
Netscape 6.x, 7.x

### Nimbra Vision Server:

Operating System: Windows XP/2003, 32-bit OS

Hardware: Minimum 733MHz Pentium III, 256MB RAM, 600MB disk

Architecture: Single, distributed or redundant server

### Ordering Information:

NPM0003-S001	Nimbra Vision Server License
NPM0003-C001	Nimbra Vision Node License, Nimbra One
NPM0003-C301	Nimbra Vision Node License, Nimbra 3xx
NPM0003-C601	Nimbra Vision Node License, Nimbra 6xx
NPM0003-C130	Nimbra Vision Node License, Nimbra 13x
NPM0003-SP01	Nimbra Vision Service Provisioning License
NPM0003-HP01	Nimbra Vision Headend Protection License
NPM0003-PRE1	Nimbra Vision Pre-emption License
NPM0003-RS01	Nimbra Vision Redundant Server License
NPM0003-DS01	Nimbra Vision Distributed Server License

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