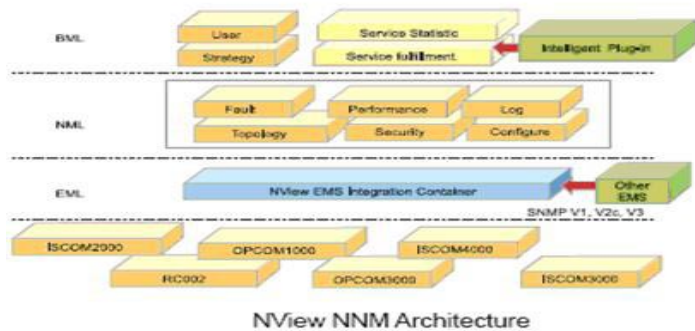


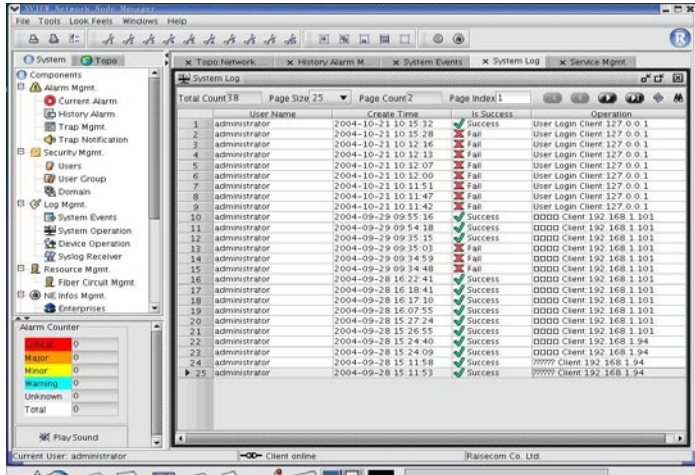
## Raisecom NView NNM Network Management System

NView NNM (Network Node Management System) is a new generation of comprehensive network management system for providing management over network layer. NView NNM provides operators and enterprise users with advanced network management solutions to help them effectively improve their network operation and maintenance efficiency, quickly locate failure and lower enterprise operation and maintenance cost. It covers network resource management, access control management, fault management, application service and intelligent plug-in integration management, intelligent strategy management, network topology management, and network service management etc.



NView NNM Architecture

NView NNM is a cross platform, distributed network management system, which uses client/server software structure and could support various deployment modes, such as C/S in single host and C/S in different host. Since it has been developed based on java, it possesses flexible migration ability between UNIX, Linux and Windows platforms.



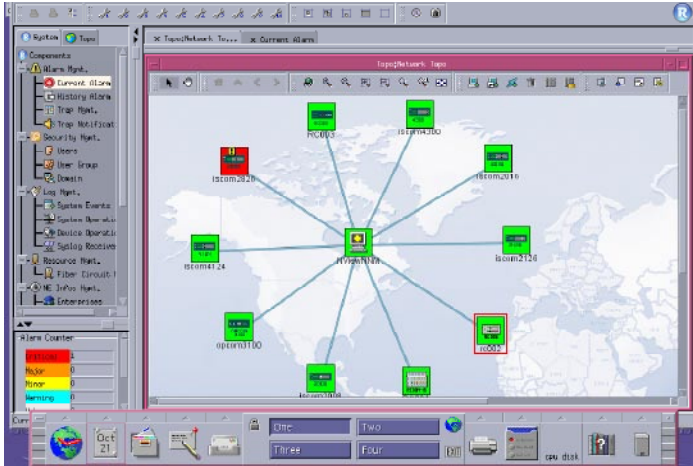
NView NNM is an open management system based on SNMP protocol. It could not only manage Raisecom's entire product lines through NView series EMS packages, but also integrate with any third party's node management software as a centralized platform for multi-vendor node management software, which ensures its abilities to manage and monitor all edge access network devices comprehensively. Its graphic operating interface makes it easy to review and configure status of network node. The manageable equipments include: CWDM equipment,

PDH multiplexer, copper-to-fiber media converter, interface converter, protocol converter, MSAP, EOS, EOA and Ethernet Switch, etc.



NView NNM's CORBA-based northbound interface supports ITU-T's FCAPS function model, and could provide kernel Corba services including naming services and event notification services, provide third party's OSS system with data service interfaces qualified by TMF814 specification. NView NNM provides alarm forwarding feature, which makes it possible to notify administrator(s) or telecom fault management system about user concerned network fault messages through E-mail, short message, XML format message, or northbound interface etc. NView NNM is an uniform process management platform, which could manage various system services, such as trap receiving service, alarm storm protection service, device polling service etc. It could also integrate with third party's application as system service for network management. NView NNM provides failure, configuration, performance and security (FCAPS) management function model which conforms to TMN standard.

Network Topology Management: Graphical topology management is available with NView NNM. It has abilities such as topology hierarchy management, navigation, fault locating and node auto-discovery function, and also allows graphic customization to enrich the representation of topology.



Raisecom Technology Co., Ltd.  
812 Haitai Tower  
229 Fourth North Loop Middle Road  
Haidian District, Beijing 100083

Tel: +86 10 8288 3305  
Fax: +86 10 8288 3056  
Email: info@raisecom.com  
http://www.raisecom.com

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Network Event Management: NView NNM has abilities such as alarm event handling, Trap defining, resolving, revealing, filtration, forwarding, level management, as well as multi-strategy's alarm statistical analysis. Network alarm events could be shown at network topology, device node, card, port levels. Integrated network Trap log information includes Trap source, event description, time stamp. You can classify, sort and filter those events by alarm levels, and even export them to an outside file for analysis.



Network Resource Management: NView NNM provides management centralization for network resources, such as cards and ports, at network layer. A uniform resource initialization interface is included, so differentia between device resource information would be ignored. Additionally, on basis of centralized management, a service-oriented user management function is available as well. You can launch bidirectional search via association relationship between user and network resource, to quickly locate user according to alarm.

Performance Management: A uniform performance statistic and analysis platform is available with NView NNM. It offers strategy-based real-time performance and historical performance collection function, which could address users' demands for comprehensive and complex analysis of network resource, host server, enterprise application, etc. For example, the network flow analysis, bandwidth utilization analysis, network delay analysis, device performance analysis. In addition, it also provides report output function to facilitate user view and manage.

Configuration management: Manages network nodes' configuration. NView NNM allows you show and configure physical resources on network element, such as chassis, card, port, power, fan, etc. Its FTP-based software distribution function will update multi-nodes' core files, backup and restore profiles simultaneously.

Security Management: NView NNM provides powerful security control strategy, which supports partition of domain and authorization. It associates diverse administrator with different privilege, thus allows network management as actual requirements. Via self-defining scope of management domain, user can balance network administrator's work depending on devices' function, additionally, monitor and track

administrator's work according to detailed system operation log and device operation log.

NView NNM Provides Intelligent Strategy Management: Simultaneous update and backup network nodes' system files and profiles regularly. Synchronize network resource and NNM resource database regularly. Maintain network management system regularly. Develop and customize network resource's management strategy as per need. For example, limit bandwidth of Ethernet Switch port or service port in terms of period.

NView NNM Provides Service Analysis And Statistic Function: Statistical analysis of network resource classification and utilization rate. Statistical analysis of impacts on user from network fault. Network users' classification, level management. Multi-aspect statistical analysis of impacts on user from network distribution, user distribution, network operating status.