



NM*Server SNMP System Management Agent for VOS

VOS Agent Features

- Monitors Stratus and IBM System/88 VOS systems from any SNMP Manager
- Manages systems via Remote Console Commands
- Extensive VOS-specific MIB and Traps
- Provides performance monitoring and resource allocation statistics

NM*Server for VOS is designed to run on Stratus or IBM System/88 systems to allow them to be monitored and managed remotely by SNMP Network Managers.

NM*Server monitors important performance and resource utilization criteria including what processes are running, disk utilization, system red light events, and CPU load statistics. It reports this information to the SNMP Manager when polled and sends traps (alarms) to notify the Manager of critical events such as mission critical process stopped, disk nearly full or CPU overload. NM*Server also allows users to send their own data as traps.

Monitor System Health

System Errors. NM*Server reports all entries in the hardware error log as system red light traps.

Monitor Logs. NM*Server reads user specified files, optionally filters the data against user established criteria, and sends the results as traps. This feature is particularly useful for receiving instant notification of events that are posted to the system error log or application log files.

Monitor Processes

Active Processes. NM*Server gathers statistics on current processes. Process statistics include resource utilization, CPU utilization, disk activity, process state, process priority, and many more.

Mission Critical Processes. NM*Server detects user specified mission critical processes or programs that are not active. NM*Server is capable of tracking multiple instances of a process or program and sending traps when the actual number of instances drops below the user specified minimum.

VOS Agent MIB Overview

System Information

Module Name • VOS Version • CPU Type • Number of CPUs • Module Paging Space

Resource Information

CPU • Disk • Active Processes

Status Information

Module Hardware Log Messages • User Traps Data

Agent Configuration

Configuration Information • User Specified Trap Thresholds • User Specified Time Intervals For Statistics Gathering

Monitor Resources and Performance

System Utilization. NM*Server oversees module page partition usage and sends a trap when usage exceeds user-defined thresholds. NM*Server also tracks the number of page faults and interrupts over one, five and fifteen minute intervals.

CPU. NM*Server maintains statistics on CPU load over one, five and fifteen minute intervals. NM*Server also computes the percent of CPU used by user processes, system processes, module interrupts and network server processes.

Disks. NM*Server collects statistics on available disks and monitors disk utilization levels. Thresholds for disk utilization traps may be specified in terms of percent full or minimum free space requirements.

VOS Agent Trap Summary

Resource Information Traps

Excessive CPU Utilization • Excessive Interrupt Utilization • Disk Full • Page Full • Mission Critical Process Missing

System Information Traps

Red Light Event

Agent Status Traps

Cold Start • Authentication Failure

User Trap

Send Your Data as Traps to SNMP Manager

Manage Systems Remotely

NM*Server's Remote Console allows the SNMP Manager to send console commands to the VOS system. These commands, which can include restarting a failed process or deleting log files, are executed and the results (if any) are returned to the SNMP Manager. Several Remote Console instances may run concurrently.

VOS Agent Traps

NM*Server offers VOS system operators a powerful proactive tool by identifying potential problems before they occur and alerting the SNMP Manager before users are impacted.

NM*Server also allows the user to configure thresholds for all utilization traps, i.e. how full, how busy, etc. User traps are sequence numbered and recent user traps are retained by NM*Server so they can be re-transmitted in the event of network problems — a feature which provides considerable peace of mind in remote computing environments.

NM*Server Package

NM*Server for VOS includes the agent, MIBs, sample configuration files, user guide, installation aids, and sample programs. NM*Server is installed by restoring a back-up tape or by FTPing files from our Web site, configuring a few parameters, and uploading the MIBs to the Network Manager.

PREREQUISITES

For 680x0 systems, VOS version 11.1 or later is required; for i860 systems, VOS version 11.7 or later is required; for Continuum systems, VOS version 13 or later is required. TCP connectivity to the Network Manager is also a requirement.

LICENSING AND WARRANTY

COMTEK products are licensed on a per module basis and carry a money back guarantee. Quantity and corporate discounts are available.

SUPPORT SERVICES

Worldwide support services are provided via FTP, e-mail, phone and fax on a 24x7 basis.

Other COMTEK NM*Server products are available for IBM AS/400 (OS/400) and DEC OpenVMS.

COMTEK is a computer software and consulting company in the business of providing network solutions and is widely recognized for providing reliable, robust application code. With headquarters in Fairfax, Virginia, the company can also support clients from offices in Dallas, Texas, Nashua, New Hampshire and Colorado Springs, Colorado. Founded in 1988, COMTEK has built its reputation over the last decade by satisfying the demands of some of the largest worldwide companies in the telecommunications, computer, investment, food, and pharmaceutical industries, in addition to five stock exchanges located on two continents.

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