



NM*Server SNMP System Management Agent for OS/400

NM*Server for OS/400 is designed to run on AS/400 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 status, 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 QSYSOPR message queue as traps. QSYSOPR message ID filters may be established so that unimportant QSYSOPR messages are not converted to traps. NM*Server also provides the capability to retrieve QSYSOPR help text.

User Data. NM*Server opens and maintains a user data queue. Messages placed in that queue by any application program are converted into traps and sent immediately.

Monitor Processes

Active Processes. NM*Server gathers statistics on current processes. Process statistics include CPU utilization, last function executed and job status.

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

OS/400 Agent Features

- Monitors OS/400 systems from any SNMP Manager
- Manages systems via Remote Console Commands
- Extensive OS/400-specific MIB and Traps
- Provides performance monitoring and resource allocation statistics

OS/400 Agent MIB Overview

System Information

System Name • System Model • History Table

Resource Information

CPU • Disk • Active Processes • Job Queue

Status Information

QSYSOPR Messages • QSYSOPR Help Text
• User Traps

Agent Configuration

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

Monitor Resources and Performance

System Utilization. NM*Server oversees system utilization information, collecting data on such items as addresses, ASP and unprotected storage.

CPU. NM*Server maintains statistics on CPU utilization and CPU pool activity. Traps are sent when CPU utilization exceeds the user defined threshold.

Disks. NM*Server collects statistics on available disks and monitors disk utilization levels. Thresholds for disk utilization traps are specified in terms of percent full.

OS/400 Agent Trap Summary

Resource Information Traps

Excessive CPU Utilization • Disk Full • Mission Critical Process Missing

System Information Traps

QSYSOPR Message • QSYSOPR Help Text

Agent Status Traps

Cold Start

User Trap

Send Your Data as Traps to SNMP Manager

NM*Server Package

NM*Server for OS/400 includes a subagent, MIBs, sample configuration files, user guide, installation aids, and sample programs. Because NM*Server uses a master agent/subagent architecture, multiple subagents written by different vendors (or the user) can be used at the same time, (e.g. COMTEK's NM*Server and a database subagent from a database supplier.) NM*Server is installed by restoring a library, configuring a few parameters, and uploading the MIBs to the Network Manager.

PREREQUISITES

OS/400 version V3R1M0 or later; TCP connectivity to the Network Manager.

LICENSING AND WARRANTY

COMTEK products are licensed on a per system 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 DEC OpenVMS (VAX and Alpha), IBM System/88, and Stratus VOS.

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.

Manage Systems Remotely

NM*Server's Remote Console allows the SNMP Manager to send console commands to the OS/400 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. The Remote Console can be selectively disabled by the user if desired.

OS/400 Agent Traps

NM*Server offers OS/400 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. In addition to standard critical event traps, the user can send any message desired as a trap. NM*Server has also implemented a trap throttle mechanism which can be used to prevent traps from flooding the network. Reception of traps is confirmed with NM*Server's Confirmed Trap Reception feature and recent traps are retained by NM*Server so they can be re-transmitted in the event of network problems – features which provide considerable peace of mind in remote computing environments.

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