



Net-Centric Application Monitor (NCAM) provides organizations with a unified web-based solution that delivers instant, comprehensive awareness of the real-time status and historical performance of network-centric information systems, without dependency upon client-side software. NCAM can be used to isolate system faults, evaluate Quality-of-Service (QoS) and Service Level Agreements (SLAs), perform trend analysis and monitor current system states and capabilities.

NCAM Features and Benefits

- Provides application system performance data
- Provides current status & availability of mission critical systems
- Helps monitor & enforce service level agreements (SLA's) and Quality-of-Service (QoS) expectations
- Provides trend analysis
- Requires NO client-side software
- Highly mobile & deployable
- Secure web-based system (2048-bit HTTPS/SSL)
- Multiple intuitive interfaces
- Provides system awareness beyond organizational borders
- Provides realistic "point-of-view" monitoring

Overview

Extensible & Scalable Solution

NCAM actively and discretely monitors mission critical systems by simulating user requests. Right out of the box, NCAM can monitor an extensive list of net-centric applications and devices. Whether your organization depends upon global catalog servers, databases, information dissemination systems or audio & video collaboration platforms, NCAM is pre-configured to monitor and analyze those systems which are "mission-critical" to your IT infrastructure. Furthermore, with NCAM's simplified open configuration interface, your organization will be ready to monitor nearly any net-centric system,

including those that have yet to be invented. This rapid extensibility makes NCAM the perfect choice for monitoring dynamic, changing environments, temporary or "ad-hoc" information systems and mobile & deployable IT assets. It also means that NCAM will grow seamlessly with your organization, providing a "future proof" monitoring system that will eliminate costly license upgrades and significantly reduce NCAM's Total Cost of Ownership (TCO).



No Client Software

NCAM requires absolutely no client-side software or configuration, and it natively monitors applications that exist on a wide range of operating systems, including Microsoft Windows, Linux, Unix, Novell, and Sun. In today's cross-service, multi-agency, multi-national operational environment, global application monitoring presents several challenges.

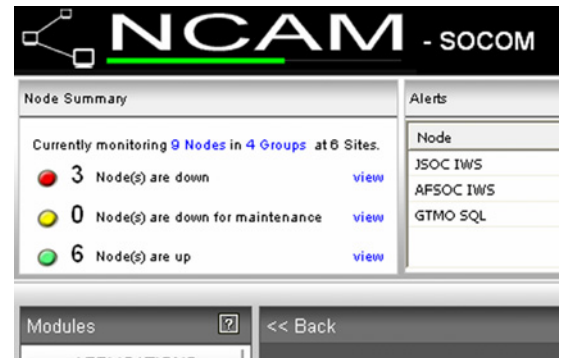
Overview (continued...)

Concerns over enterprise-level administrative rights and dissimilar security policies often prevent the establishment of a unified solution. Uncertainty regarding monitoring software compatibility and interoperability causes organizations to be understandably reluctant to install client-side software. Finally, the distribution, installation and configuration of client software on numerous clients located at many sites in several countries can require a monumental coordination effort. With NCAM, you are able to move beyond these problems and enjoy the benefits of real-time situational awareness of your net-centric enterprise.

Intuitive Interface

NCAM is designed to allow users of all experience levels to quickly and easily identify the state of mission critical systems. Unlike many monitoring applications, the operation of NCAM does not require engineer-level expertise. In fact, NCAM is specifically designed to allow users of all backgrounds to immediately recognize the current state of the particular net-centric system that is important to them. This is accomplished through a simplified system of color coded lights that indicate the current state of an application or group of applications. The green, yellow and red lighting system is repeated throughout the various interface screens, ensuring users are never presented with data in a manner that's difficult to understand.

NCAM takes the complex and makes it simple. For example, a net-centric "system" could easily consist of more than 50 servers in 10 countries running 20 different applications. By logically combining these applications into an NCAM "group", the status of the entire system is reduced to a single, intuitive indicator. For those who desire more information, NCAM employs an intelligent cascading system of "drill-downs" which are capable of providing an enormous amount of detail.



Last, but not least, NCAM provides a revolutionary interactive global mapping system (see Figure 1), suitable for any desktop or large screen display. By observing a real-time map, users are able to easily determine not only which application systems are up or down, but where they are actually located. Simply clicking on a site reveals details about the net-centric assets located there, including application type, group type, server name, IP address and points of contact.

Figure 1. NCAM Map

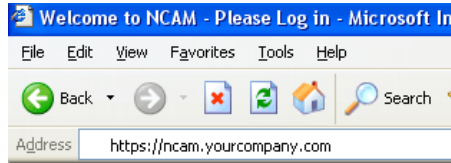
NCAM provides an interactive, real-time global map view of net-centric application status. This image is a screen shot of a portion of the NCAM Map. In this image, NCAM is reporting that application nodes at the AFSOC site as well as the JSOC site are unavailable.



Overview (continued...)

Web Based

NCAM is a secure web-based system, utilizing state-of-the-art encryption to ensure that not only can you provide application availability and performance information to users anywhere in the world, but that you can do so with complete confidence that your data will not be compromised. Employing only a standard web browser, NCAM does not require that any software be installed on the user's computer.



And to flatten the learning curve, NCAM leverages existing user comfort with standard web pages and controls by making data available via familiar objects such as hyperlinks and dropdown menus.

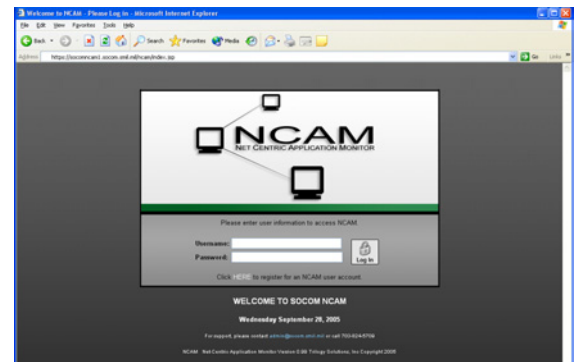
NCAM allows you to deliver system awareness directly to where it's needed most: the system users. By doing so, NCAM will significantly lessen your current administrative overhead supporting help desk trouble calls and technical support, as well as eliminating information "stovepipes" that commonly exist between operational and support groups.

Additionally, NCAM's automated e-mail alerting system removes the burden of notification from system administrators, ensuring that your worldwide user community is made immediately aware of critical system state changes.

Best of all, you will be able to deliver this complete web-based awareness without having to purchase additional software. The NCAM monitoring system includes its own integrated, self-configuring web server, providing a complete "turn-key" solution that will have your new NCAM web site up and running within minutes. Global application monitoring has never been easier.

Figure 2. NCAM Login Page

The NCAM Login Page ensures that only authorized users have access to the system



Mobility & Deployability

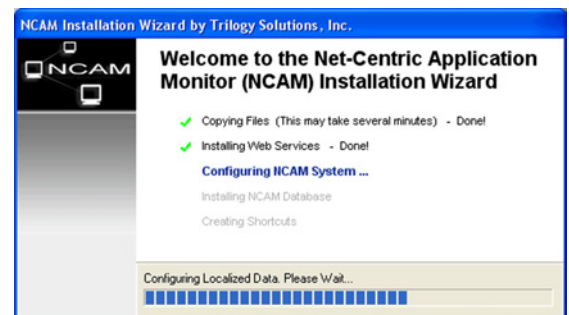
NCAM was designed to be extremely mobile and deployable. To facilitate rapid movement of assets, NCAM simplifies such tasks as changing IP addresses and hostnames, and requires nothing more than a restart. By being flexible, NCAM is easily able to move from network to network, from location to location without the need to rebuild or significantly reconfigure the system. There is no need to send highly trained support personnel to accompany an NCAM deployment, it can be completely configured and administered remotely.

In the event that NCAM should ever need to be reinstalled, you'll find the process is a snap. The advanced, automated installation and configuration routine completely hides the complexity of the NCAM system. You even have the ability to create custom installation "answer files" that can be used again and again to ensure uniform configuration in your enterprise.

Your organization depends upon the performance and availability of net-centric applications. And when you're on the move, the stakes are even higher. When it comes to mobility, NCAM's ready when you are.

Figure 3. NCAM Installation

NCAM's installation process has been completely streamlined and automated.



Overview (continued...)

Shared Awareness

In the information age, your mission-critical applications aren't limited to your local network. Should your application monitor be any different? NCAM can certainly provide outstanding stand-alone monitoring capabilities. But in the global enterprise environment, the real question becomes not just "Is this application up?", but more importantly "Are the user communities around the world that need this resource currently able to access it?"

The answer to this question is obviously a matter of the user's point of view, and can depend upon a wide range of factors including local firewalls, access lists, network latency and connectivity. NCAM's completely "linkable", federated architecture allows many NCAM servers at different locations to join together to paint a common operational picture, representing several perspectives.

Performance Metrics & Reports

NCAM provides an array of HTML based reports, indicating both real-time status and historical performance of your enterprise application systems. Users can select from a long list of options to immediately design the report that is most useful to them. Perhaps you need to know which applications are the most reliable, or perhaps you want to know which applications take the longest to restore to operational status after a failure. With NCAM, these reports and many more are at your fingertips.

Colorful, insightful charts and graphs make technical data easy to read and understand, facilitating quick identification of performance trends and bottlenecks. Hyper-accurate detail allows for the exacting comparison of statistics such as "Percentage Up", which can be used to monitor SLAs, and "Average Time Between Failures" which can be used to establish baselines and compare application performance following changes to network topology, application version upgrades and even server hardware modifications. Are your net-centric applications performing as well as they should be? Let NCAM provide the answer.

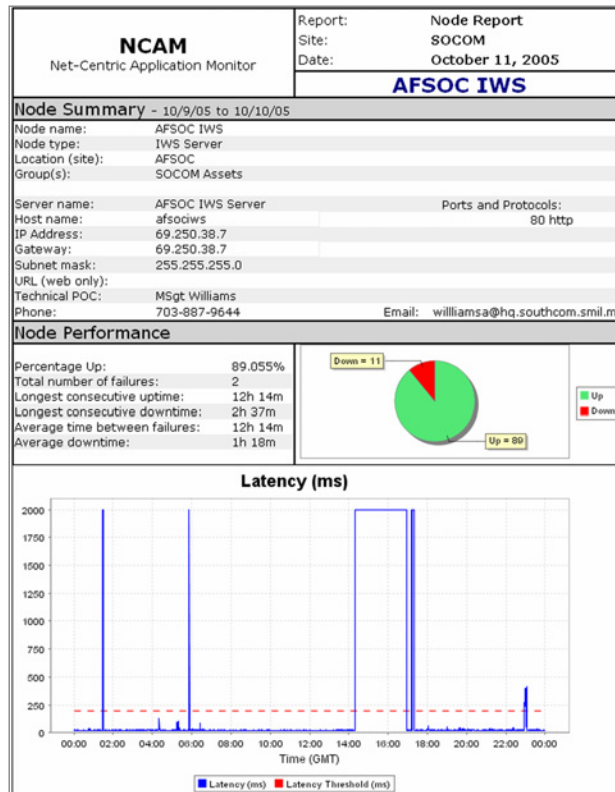


Figure 4. Node Performance Report

This report (printed on October 11th) displays detailed data indicating the "AFSOC IWS" 24-hour node performance on October 9, 2005.

Monitored Applications & Systems

This list contains the many net-centric applications and systems that NCAM is pre-configured to monitor. NCAM can quickly and easily monitor systems that are not listed below via simple configuration updates.

Collaboration Systems

- InfoWorkSpace (IWS)
 - CuSeeMe / Click To Meet
 - DCTS Digital Dashboard
 - IBM Lotus Notes
 - Microsoft LCS 2005
 - Macromedia Breeze
 - Jabber
 - Groove
 - NetMeeting
 - Webbe
 - WebEx
 - Radvision VTC
 - Tandberg VTC
-

Domain / Enterprise Services

- Windows 2000 Domain Controller
 - Windows 2000 Global Catalog
 - Windows NT Domain Controller
 - LDAP Directory Server
 - DNS Server
 - Novell Network Server
 - Network Time Server
 - POP3 Mail Server
 - SMTP Mail Server
 - IMAP Mail Server
-

Voice Over IP (VoIP)

- Cisco Call Manager
 - Cisco IP Phone
 - IP Phone - SCCP
 - IP Phone - SIP
 - IP Phone - H323
-

Database Servers

- Oracle Database
 - Microsoft SQL Database
-

Web Servers

- Web Server
 - Web Server – Secure (SSL)
 - FTP Server
-

Other Systems & Devices

- Citrix Metaframe
 - HP OpenView
 - NCAM Server
 - Network Printer
 - NTIS
 - Streaming Media Servers
 - Global Command & Control System (GCCS)
 - Information Dissemination Management (IDM)
-

Public IM / Chat Servers

- AOL Instant Messenger Server
 - Yahoo Messenger Server
 - MSN Messenger Server
 - ICQ Server
 - IRC Server
-

For more information:

To learn more about NCAM Net-Centric Application Monitor, contact Trilogy Solutions, Inc. at ncam@TrilogySolutions.com or visit our website at: <http://www.TrilogySolutions.com>

© 2005 Trilogy Solutions, Inc. The information contained herein is subject to change without notice.