Product brief: CNMS
Central network management system

CNMS is an advanced flexible Network Monitoring System suitable for virtually all kinds of control and monitoring tasks. It monitors and displays the IP network status as well as the status of software applications and system hardware in a fully integrated way. Thus, it considerably simplifies the task of managing the system through a unified user interface for the relevant monitoring tasks.

Key features

Component status reporting

CNMS collects status information from monitored components, analyses the received information and transforms the status into concise status information. Components can also actively report a status change via SNMP traps and polls. CNMS logs all status changes in a database which can be collected later for various reports.

Alarm escalation

Important or critical status changes can be configured to trigger external alarms, such as emails or mobile phone text messages. Maintenance staff can log into the system remotely, assess the situation and execute the appropriate fault repair activities.

System status views

The system status must be monitored and investigated from different perspectives. CNMS provides a multitude of possibilities to display the status of systems and networks.

CNMS creates a top-level information view by collecting and filtering hardware- and software-related details to a graphically displayed status summary.

Other graphical views may be generated based on physical hardware layout, monitored applications, network topology, logical, building or geographical maps, or whatever is needed by the users.

CNMS at a glance

- Graphical display of network and system status

- Multiple view options for hardware, software application and network status

- Intelligent status propagation from detailed to overview displays

- Monitoring via SNMP, ICMP, SMTP, TCP (HTTP, POP, IMAP), UDP (NTP, DNS)

- User-configurable plug-in concept

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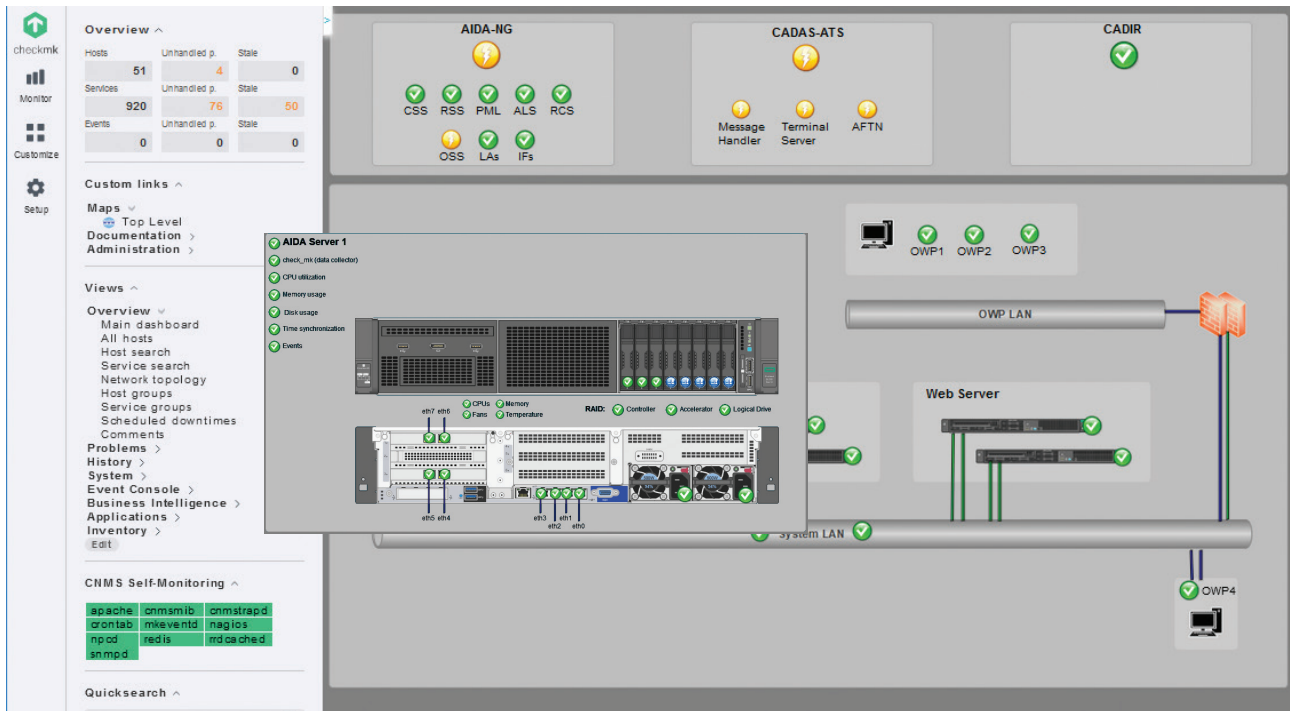
Benefits

Simplified monitoring of complex systems

Frequentis has deployed CNMS in numerous installations worldwide for comprehensive monitoring and control of aeronautical centre applications and equipment. Its ease of use, mature design concepts and its high adaptability to the operational environment have made CNMS the reliable centralised tool of choice for system monitoring. CNMS significantly contributes to the aim of simplifying the monitoring of complex systems, which in turn reduces operational costs by simultaneously increasing system availability.

High flexibility and extensibility

Maintenance staff can easily navigate from a graphical top-level system overview to a detailed component view. The open architecture of CNMS fully supports the need for high flexibility and extensibility of many operational environments.

CNMS can be easily adapted to new or customer-specific hardware components, networks and applications through programmable plug-ins. Although CNMS primarily makes use of SNMP (Simple Network Management Protocol) to monitor and control systems, the plug-in concept allows for easy incorporation of other, even non-standard, monitoring means.

Facts and figures

Configuration	single terminal-based workstation or client-server system
Monitoring	SNMP, TCP, ICMP, SMTP, NTP
Control	SNMP SET, HTTP, SSH
Reporting	availability, alarms, performance data (e.g. CPU load, disk usage, memory usage, network bandwidth usage)
User Interface	operating system independent access
Notification	traps, emails, SMS