

CA Unified Infrastructure Management for Cluster Servers



At a Glance

CA Unified Infrastructure Management (CA UIM, formerly CA Nimsoft Monitor) for Cluster Servers allows you to intelligently monitor and manage clusters and nodes using a single, intuitive interface. CA Unified Infrastructure Management enables you to proactively monitor the quality of service delivered by your virtual, physical and cloud IT infrastructure. The product monitors applications, servers, networks, databases, and end user experience. IT professionals and business users gain end-to-end visibility into their IT services using customizable portals, dashboards and reports.

Key Benefits/Results

- **Unified visibility.** Improved network availability and performance through a single, unified platform that allows you to monitor and control your entire IT environment, both inside and outside the data center.
- **Ease-of-use.** Our “plug and play” probe architecture allows for on-demand delivery of monitoring services.
- **Speed time-to-value.** Customers can install CA UIM and deploy monitoring to more than 100 servers in less than three minutes.
- **Reduce cost and complexity.** Eliminates the cost and complexity of maintaining multiple platforms.

Key Features

- **Highly scalable.** Can go from 100 to more than 100,000 devices that eliminates the worry of outgrowing your monitoring solution.
- **Customizable dashboards.** Configure service delivery information based on roles within the organization.
- **Business metric monitoring.** Enables aggregation of monitoring data from disparate sources to provide current views of critical business services that impact customer experience.
- **Unified trending and root-cause analysis.** Quickly identifies and corrects problems across your entire IT infrastructure before they become performance issues.

Business Challenges

For many organizations, application downtime is simply not an option. That’s why the adoption of Microsoft and Veritas high availability (HA) clustering solutions has become increasingly widespread. With these solutions in place, organizations are able to leverage sophisticated system redundancy to improve uptime for their critical applications.

Yet with these failover solutions deployed, controlling service delivery—from both an operational and application perspective—becomes exceedingly complex. To be effective, administrators need a cohesive view of this intricate system and all its associated components, but traditional systems management solutions provide isolated, component-centric views. Consequently, administrators often fail to get continuous monitoring visibility during failover situations, receive duplicate alarms and get false status information.

Solution Overview

With CA UIM for Cluster Servers, administrators can manage all HA components from a single, intuitive interface. CA UIM comprehensively monitors applications in clustered environments—regardless of which active node they are running on. During HA failover conditions, CA UIM maintains consistent, uninterrupted alarm generation and quality-of-service data, so administrators can immediately receive appropriate notification. As a result, administrators can significantly reduce the time spent monitoring, while gaining the timely, accurate insights they need to spot, and address, potential issues before they have an impact on service delivery.

With CA UIM solutions, enterprises and service providers gain a centralized, cohesive view of their entire infrastructure. Whether an IT organization wants to monitor a specific network element or the entire infrastructure on which a mission-critical application is based—including the associated network elements, databases, application servers and more—they can do it all with the CA UIM product suite.

Critical Differentiators

CA UIM uses a Message Bus Architecture as a core element that is streamlined, comprehensive and efficient. It enables all monitoring components to communicate with each other, without direct program-to-program connections and acts as an abstraction layer between the core system and the monitoring probes. This leads to significant improvements in reliability, scalability and development agility.

Cluster awareness yields accuracy and efficiency

CA UIM offers cluster awareness that simplifies and takes the guess work out of monitoring Microsoft and Veritas cluster environments. When deployed, CA UIM is installed on each node in the cluster, and lightweight probes located on each server maintain continuous communication with the Microsoft and Veritas cluster service to identify changing cluster configurations and automatically migrate monitoring across cluster nodes whenever needed.

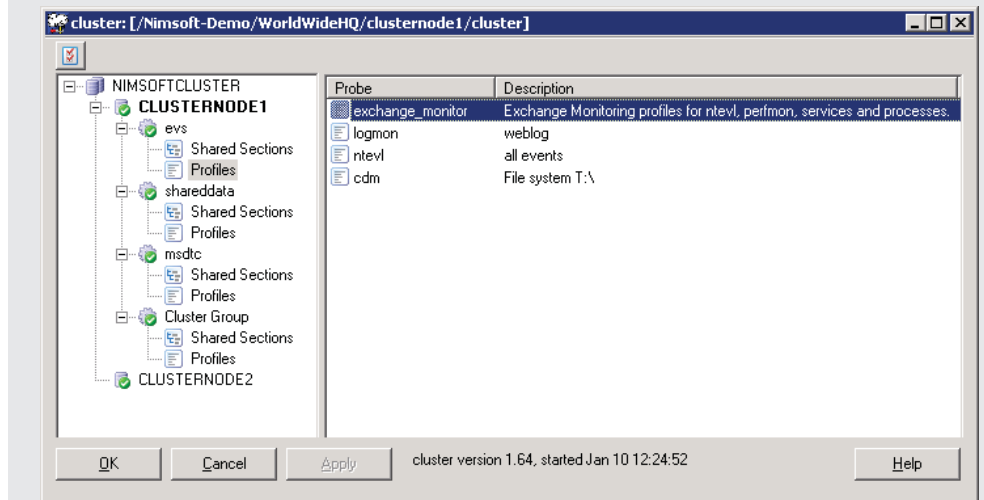
This automatic movement of the solution's monitoring gives assurance that all applications within a cluster will always be monitored for high availability and performance—regardless of where a process, service, application or application subsystem moves within a cluster. With CA UIM, no manual activation, reconfiguration or duplication of monitoring is required.

CA UIM equips administrators with fast, intuitive insights, providing notification of state changes through real-time alarms in dashboards and color-coded text alarm views. CA UIM can identify these cluster state changes:

- Cluster node
- Up/down
- Cluster resource group
- Pending offline/online
- Online/offline
- Moved
- Stopped

For more information, please visit ca.com/uim

CA UIM for Cluster Servers comprehensively monitors applications in clustered environments.



CA UIM supports Microsoft cluster servers on Windows and Veritas cluster servers on Windows, Linux and Solaris. CA UIM supports the following cluster configurations:

- Active/active
- Active/passive
- N+1 (Microsoft Exchange clusters)

Insights for proactive management

CA UIM offers a range of features that enable customers to pro-actively manage multi-node cluster environments:

- **Complete HA visibility.** CA UIM can be used to monitor and report on the availability and performance of the entire HA system, from cluster servers, nodes, service groups and resources through to the operating system and hosted application.
- **Continuous monitoring coverage.** CA UIM monitors the status of essential cluster processes and resources, making certain that core components are available at all times.

- **Automated alerts.** Warnings and/or alarms are generated based on user-defined thresholds for operational and failover conditions.

Cohesive views of the entire infrastructure

CA UIM is complemented by over 120 CA UIM, server, database and application monitoring solutions. This set of solutions provides mission-critical availability and performance monitoring of the popular commercial and home-grown applications that get deployed within Windows, Linux and UNIX (Solaris) cluster configurations. In clustered environments, CA UIM can be integrated with these application probes, meaning monitoring profiles are automatically migrated along with the monitored applications whenever the Microsoft or Veritas cluster service initiates a scheduled failover.

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