

CA Unified Infrastructure Management for Citrix XenServer



At a Glance

CA Unified Infrastructure Management (CA UIM, formerly Nimsoft Monitor) for Citrix XenServer gives you comprehensive coverage of XenServer virtualized environments. The solution tracks XenServer host status as well as the health and status of VMs hosted within the environment. CA UIM provides the intelligent capabilities you need to monitor effectively within this dynamic, fluid environment.

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.** Install CA UIM and deploy monitoring to more than 100 servers in less than three minutes.
- **Reduce cost and complexity.** Eliminate 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.
- **Multi-tenant architecture.** Allows you to efficiently scale and personalize service offerings for one or many clients.

Business Challenges

While virtualization technologies like Citrix XenServer have ushered in a world of potential benefits, they have also brought an entirely new world of challenges from a monitoring perspective.

Citrix XenServer is an open, enterprise-class server virtualization platform that is gaining increased popularity with cloud computing vendors. When XenServer gets implemented, an entirely new layer of “moving parts” gets added to the mix, and dramatically increases the complexity of monitoring business applications and the infrastructure upon which they rely. How can organizations efficiently monitor this virtualized infrastructure? How can they ensure that the virtualized infrastructure and all the applications that run in this virtual environment are optimized?

Solution Overview

With CA UIM for Citrix XenServer, organizations can harness a comprehensive solution for monitoring XenServer hosts and virtual machines. CA UIM enables organizations to monitor and fully optimize their XenServer implementations. Plus, with CA UIM, organizations can monitor and manage all the operating systems and business applications that run in this virtualized environment—and get insights into the performance end users experience from these business applications. By offering this comprehensive monitoring picture through a centralized solution, organizations can take a more holistic and service-led view of the virtualized environment—and much more effectively optimize the performance, utilization and reliability of the entire infrastructure.

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.

Monitoring OS and apps on virtual machines

CA UIM offers capabilities for monitoring the following:

- All major Windows and Linux based operating systems.
- A host of common business applications including Microsoft Exchange, Microsoft Active Directory, Microsoft IIS, Lotus Notes, SAP, WebSphere, e-commerce applications and custom-built applications.
- All prevalent databases, such as Oracle, Microsoft SQL Server and Sybase.

Monitoring response times of end-user applications

Through its extensive support for response-time solutions across a range of applications, CA UIM provides vital insights into what is really happening from an end-user perspective.

CA UIM offers a range of capabilities for simulating transactions that end users conduct with business applications. With CA UIM, these simulations are easy to implement and automate, and they yield a wealth of practical insights and alerts if end user processing is degraded or down.

Critical performance data:**When and how it's needed**

CA UIM compiles, analyzes and monitors performance data to provide real-time tracking of Microsoft virtualized infrastructures. CA UIM delivers this vital information via alarms, operator consoles, business dashboards, long-term trend reports and SLA compliance reports.

Supported Environments**Supported versions**

- XenServer 5.5
- XenServer 5.0
- XenServer 4.x

Metrics collected

Note: Most metrics apply to either host or VM only

- **System.** CPU Model, CPU Vendor, Hostname, Number of PBDs, Number of Physical Network Interfaces, Number of VMs, PIF Read Throughput, PIF Write Throughput, Software Version, State of Host, OS Version, Virtual Machine Name, Virtual Machine Start Time, Virtual Machine State

CPU. CPU Model, CPU Vendor, Number of CPUs, CPU Clock Speed (per CPU), Host CPU Utilization (per CPU), Number of Virtual CPUs, Total Virtual CPU Utilization

- **Memory.** Free Memory, Total Memory, Used Memory, Actual Memory, Max Memory (Dynamic), Max Memory (Static)
- **Disk.** Storage Type (per Disk), Free Space (per Disk) , Used Space (per Disk) , Total Space (per Disk), Virtual Allocation, VBD Status Code, VBD Status Detail, VBD Read Throughput, VBD Write Throughput
- **Network.** Number of Physical Network Interfaces, PIF Gateway (per interface), PIF IP Address (per interface), PIF MAC Address (per interface), PIF MTU (per interface), PIF Netmask (per interface), PIF Read Throughput (per interface), PIF Write Throughput (per interface), PIF Speed (per interface), PIF Status (per interface), VIF MAC, VIF MTU, VIF Status Code, VIF Status Detail, VIF Read Throughput, VIF Write Throughput.

For more information, please visit ca.com/uim

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