

CA Unified Infrastructure Management for RCA & Topology



At a Glance

CA Unified Infrastructure Management (CA UIM, formerly CA Nimsoft Monitor) for RCA & Topology is designed to automatically discover any IP device, and map out the relationships and dependencies in your network environment. In addition, it features an engine that analyzes alarms for likely root causes, helping you to boost network performance and availability through more timely and intuitive insights into network status and issues.

Key Benefits/Results

Unified visibility – for 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

Intuitive, customizable and flexible views of network topologies.

Network topologies automatically created and updated.

Intelligent root cause analysis based on network device associations.

Business Challenges

In the application economy, applications play an increasingly central role in a business' ability to deliver a differentiated, compelling user experience, and in its ability to succeed. In this environment, it grows increasingly critical for IT teams ensure applications always deliver the reliability and responsiveness users and the business demand.

Your network is complex and constantly changing. With so many interdependent systems, processes and services supporting your business, comprehensive, continuous monitoring is critical. How can you gain a complete, real-time and intuitive view of your changing network infrastructure?

Solution Overview

CA UIM provides an intuitive user interface for viewing the hierarchical and dependent structure of large, complex networks. It enables administrators to filter their view by network component, and generate network topology maps that are accurate and current.

For service providers with many clients, our multi-tenant capabilities allow you and your customers to safely segregate and view subsets of large, distributed networks and service provider infrastructures.

Intuitive and flexible topology views

CA UIM offers a visual topology and relationship viewer that enables you to select from different layout formats, including orthogonal, hierarchal, circuit, circular and natural or organic. To support large scale networks, an automatic micromap is provided to view the entire layout. You may traverse the micromap and zoom in on different network segments as required. Plus, you can mouse over individual IP devices and see specific details of that device.

The topology view is automatically overlaid with availability status data of all monitored IP devices. Connection properties are displayed when you click on a line or connection between two devices. The connection properties show the connection status (SNMP operational and administrative status), connection speed, each device and each interface on either end of the connection.

Intelligent root cause analysis

CA UIM features an engine that analyzes alarms for likely root causes, based on the layer 2 relationships identified. When a likely root cause is determined, sympathetic alarms being generated by related IP devices will be suppressed so operators only have to deal with

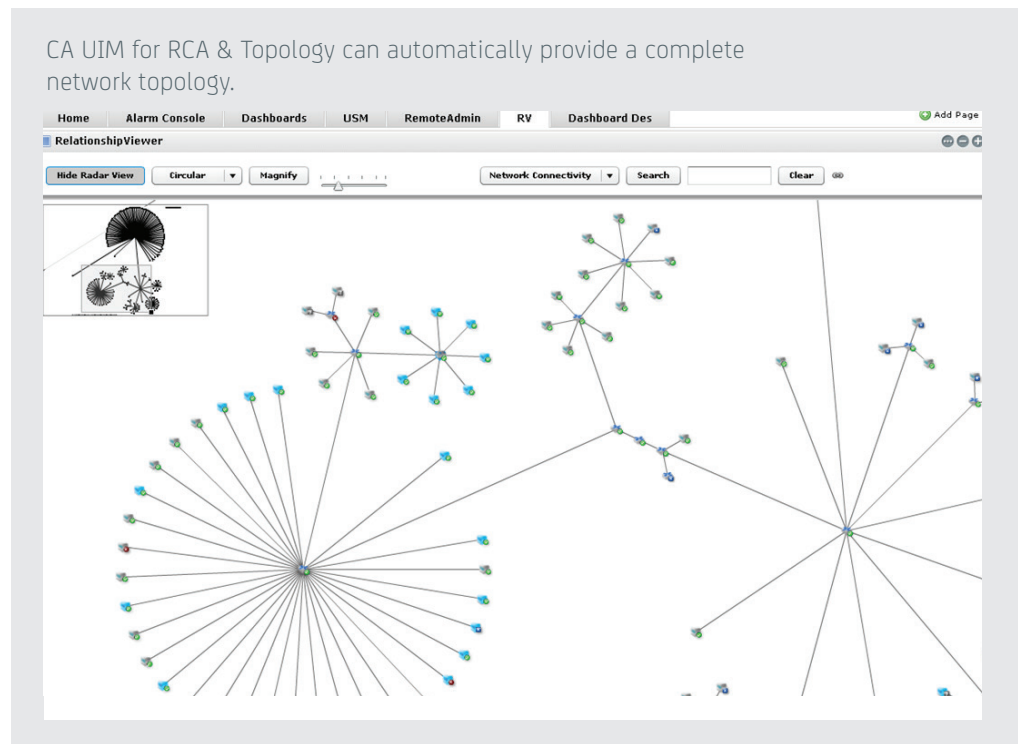
vents that need action. Where root causes are identified, a single root cause event will be generated and visible via the topology map through a glowing icon making it easy for you to see root causes and their associated impact.

Critical Differentiators

Message Bus Architecture: 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.

Root-cause analysis: CA UIM offers root-cause analysis that can distinguish between causal and symptomatic alarms, between link failures and switch or router failures and between failures of a device's agent and failures in forwarding. This root-cause analysis also suppresses alarms from systems downstream of a router or from switch failure, and it helps eliminate spurious alarms by initiating "alarm hold-down" until enough data has been obtained, at which time it produces a single alarm per causal problem.

Discovery: CA UIM is a fully scalable solution, featuring multiple discovery agents designed to work in parallel to scan different network areas. It enables duplicate addresses in different network areas and discovers both



router and switch based connections across LAN, WAN and meshed architectures. CA UIM also recognizes and correctly maps clustered systems using a common MAC address. Likewise, CA UIM has the ability to distinguish between physical and virtual machines in order to present a more accurate topology.

Topology viewer: CA UIM uses common "relationship viewer" technology to provide consistent viewing of various physical and logical relationships among elements. It dynamically reflects the state of each element using animated glows that lead the eyes to the most critical issues. To aid the visually impaired, it uses both color and shape to distinguish element states, and it

represents interrelationships with intersecting lines bridging over or tunneling under each other. CA UIM creates a "radar view" of the overall topology to provide context and enable simple navigation to areas of interest, and users can zoom in or out of these views using simple mouse commands. In addition, users can view topology by pre-defined "service groups" using the CA UIM portal or by selecting individual nodes. For greater control, CA UIM supports multi-tenant service provider environments by enforcing multi-tenancy and limiting topology viewing to the authorized customer scope of each client.

For more information, please visit ca.com/uim

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