CA Performance Management

ca technologies®

At a Glance

CA Performance Management is the next-generation big data collection and analytics solution that helps the world's largest networks successfully monetize service offerings and lower the cost and complexity of service delivery. It monitors, stores, analyzes and displays massive amounts of performance information for assuring quality across service providers' complex, multi-technology, multi-vendor network infrastructures. Designed for high scalability at low cost, the solution enables proactive capacity planning and problem-solving through flexible dashboards and reports that unify all aspects of monitoring and help optimize operations through an extensible, open architecture.

Key Benefits/Results

- **Highly scalable and unified**—Single, scalable network monitoring tool supports all technologies.

- **Rich visualization and predictive analytics**—Normalize, store, analyze and report key performance indicators from network devices and technologies.

- **Extensible and open**—Easily customize and personalize dashboards to find and make information more actionable.

Key Features

- Unified multi-technology, multi-vendor device monitoring

- Certifications for classic network devices and specialized carrier ethernet, WiFi offloading and mobile wireless equipment

- Very high-scale monitoring architecture on a platform that scales efficiently

- Intelligent analytics, high-scale visualization and fast processing for instant reporting

- Flexible, easily customizable dashboards and reports

- Extensible architecture for easy integration and automation

- Predictive analytics to give a complete, unencumbered view of the network and business key performance indicators

- Support for SDN and NFV networks

- Optional Encrypted DA-DC Interconnects for highly secure networks and data centers

Business Challenges

Organizations in the application economy require the highest level of network performance to assure timely business processes, good customer experience and unimpeded revenue flow. To meet these expectations, enterprise network operations centers (NOCs) must overcome many new infrastructure and application related challenges:

- Data center consolidation and hybrid-cloud deployment raise business' reliance on networks.

- New services, such as virtual desktops for remote offices, require greater network assurance.

- Video, VoIP and teleconferencing services are more commonplace but are fragile and delay-sensitive.

- High rates of network change, growth and increased complexity can overwhelm NOC staff with alerts.

Older-generation NOC tools lack the processing efficiency to cost-effectively scale, instantly analyze and report a massive amount of analytics and allow the easy self-customization, integration and extension that is required for this dynamically changing network environment. Organizations are also looking for solutions like software defined networks (SDN) and network function virtualization (NFV) to support newer DevOps style of service agility and innovation.

Solution Overview

To help enterprise NOCs meet their challenges and align with their businesses' priorities, CA Technologies offers CA Performance Management, a solution based on a modern architecture built for large, complex and growing network infrastructure.

The centralized, multi-tiered/multi-threaded architecture is built upon three core principles:

- **Scalability**: low cost to high scale monitoring, analytics and visualization

- **Flexibility**: intelligent analytics in easily customized dashboards and reports

- **Extensibility**: open to integrate data, automate processes and customize functionality

Key components of this architecture include:

- **Performance Center**: displays all aspects of network monitoring into efficient workflows

- **Data Collector**: consumes massive amounts of metrics at very high speed

- **Data Aggregator**: normalizes and analyzes KPIs for multi-technology/multi-vendor devices

- **Data Store**: stores massive amounts of data for analysis, display and integration with other tools
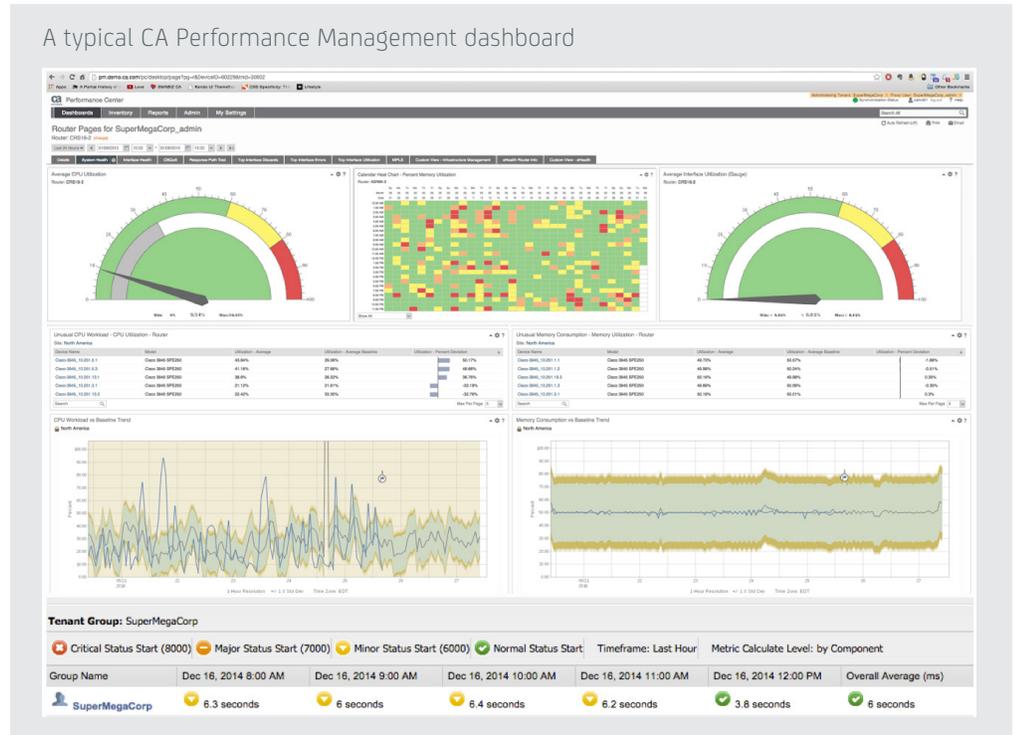
Critical Differentiators

Support for SDN and NFV—Extending your CA Performance Management investment into SDN/NFV networks, CA Virtual Network Assurance is a flexible and scalable software gateway that provides next-generation network assurance for the highly complex and dynamic multi-layered SDN/NFV stack and service chains.

Open APIs—Open APIs allows for seamless integration with OSS/BSS environments and other monitoring and reporting tools for unprecedented ease of use for custom data extraction, flexible analytics and support for today's and tomorrow's most advanced visualization technologies.

Scalability—A modern, centralized multi-tier architecture monitors the massive amounts of metrics to assure network performance with a minimum host footprint. And with the inclusion of Open API processing of custom analytics, CSPs can offer Continual Scale Advancement at high scale.

Flexibility and Intelligent Analytics—Pre-integrated, add-on, monitoring tools unify native performance, availability and capacity analytics, as well as data flow, application performance and VoIP/Video analytics free personnel from manually extracting and correlating data from separate tools.

Extensibility with Open Architecture—Zero touch monitoring allows users to extract service definitions from data sources

A typical CA Performance Management dashboard

and automatically on-board monitoring. This means hundreds to thousands of devices can be simultaneously provisioned.

Improved Quality and User Experience—with better labeling, table layout and consistency of controls within CAPC views; OpenAPI Query Builder usability; benchmark validated testing of key metrics.

Related Products/Solutions

Solutions pre-integrated with CA Performance Management:

- **CA Spectrum**: fault and network root cause analysis

- **CA Mediation Manager Device Packs for Mobile Wireless**

- **CA Network Flow Analysis**: bandwidth utilization

- **CA Unified Communications Monitor**: VoIP/Video

- **CA Application Delivery Analysis**: end-to-end application response

- **CA Application Performance Management**: business transactions and user experience

- **CA Virtual Network Assurance**: improves orchestration and agility of SDN/NFV networks

For more information, please visit **ca.com/ca-performance-management**