



Case Study

Centralized Network Element Platform

Calix Networks

About Calix

Founded in 1999, Calix develops simplified network services platforms designed to facilitate all aspects of voice, data, and video delivery to business and residential subscribers for local exchange carriers.

Calix C7 TM Platform

The Calix C7 simplified services platform integrates service

Calix provides access to the de

Benefit significant costs.

THE C7

the number of elements service management

Managing a broad range of services is no small task. Basic management activities - provisioning, fault and performance monitoring, and security enforcement - require seamless communication between the management software and the services on the Calix C7 platform.

THE SOLUTION: Adapt object oriented software to centralize applications

By migrating the application framework and its management technology to an object-oriented platform, Calix concluded they would be able to meet the new architectural requirements quicker and with improved software quality.

To achieve this, Calix selected Java as the implementation

“... came to our work, and activity final Aonix real-ance, and filing ties.”

Rose nager faces group

five-fold reduction in code size, two-fold productivity increase, and reduce production costs 50%.

Creating a 'Simplified' Management Platform

Consolidating service delivery in carrier networks creates competitive advantage through improved customer support, cost containment, and long-term application lifecycle management.

Network management is a key component to optimizing and simplifying network services.

Calix needed a comprehensive solution that ensures and supports any C

In order to require and allow the Calix tailored management

Service the Calix three

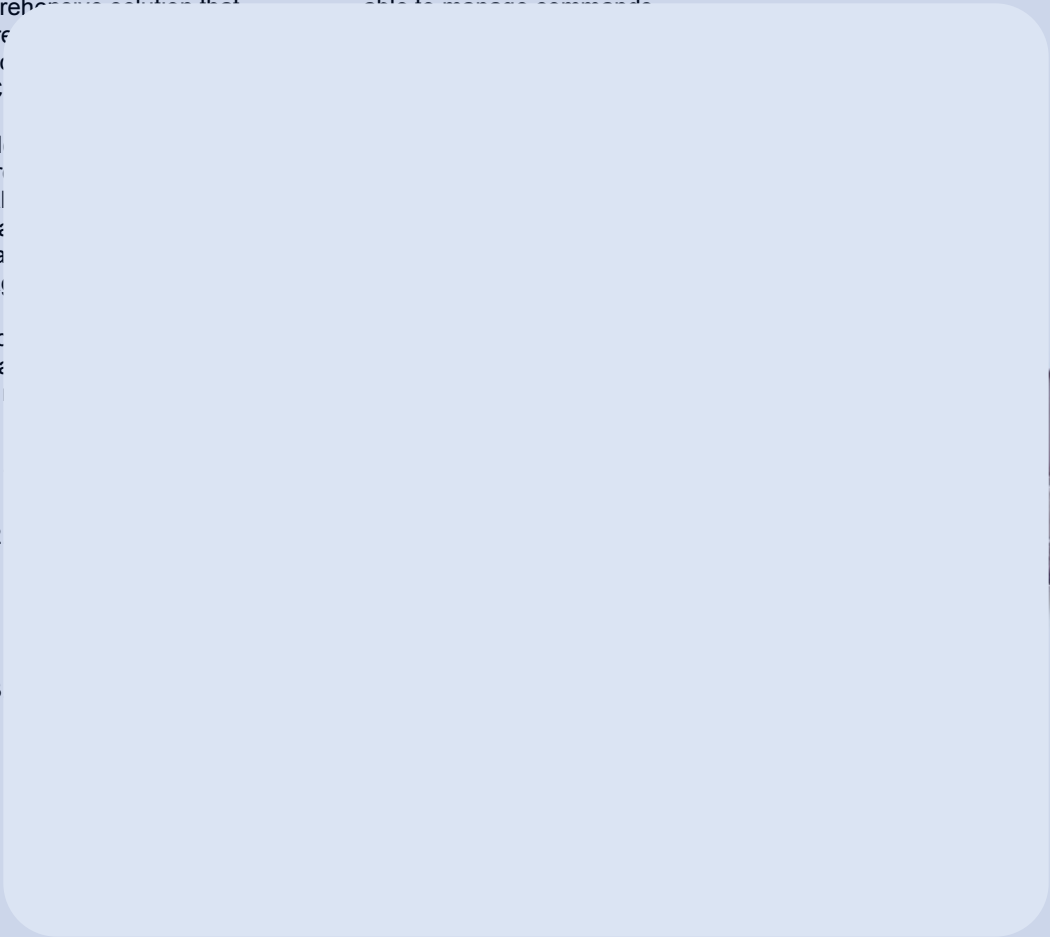
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These three management elements use the Calix Administration and Maintenance Processor (AMP) that hosts system administrative software and provides the access point into the Calix C7 platform. The AMP is responsible for carrying user commands from the management interfaces to the Calix C7 platform itself.

The AMP software must be able to manage commands



the ability to troubleshoot across multiple network layers, and streamlined provisioning of new services.

How Aonix PERC Met Calix Requirements

Calix identified the elements required for the new Network AMP – they would need a development & deployment solution supporting the engineering requirements to implement the new system.

Calix chose Aonix PERC because it was the only virtual machine to offer real-time execution support, preemptible and deterministic garbage collection, profiling and code coverage. Calix could develop and test their code further, and improve their performance.

Real-time determinism is essential for data, and each system. Calix's network management solution is a customer byte code option application requiring reliability and time b

Benefits for Customers

Aonix provided the environment and expertise that helped Calix engineer more cost-effective management software for the Calix C7 networking platform.

Their customers benefit from a consolidated network management system helping to reduce training and hardware requirements. Overall system costs were significantly reduced with an

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