

Red Hat and Casa Systems solutions for wireless networks

Modernize your network operations

Create networks that deliver the future

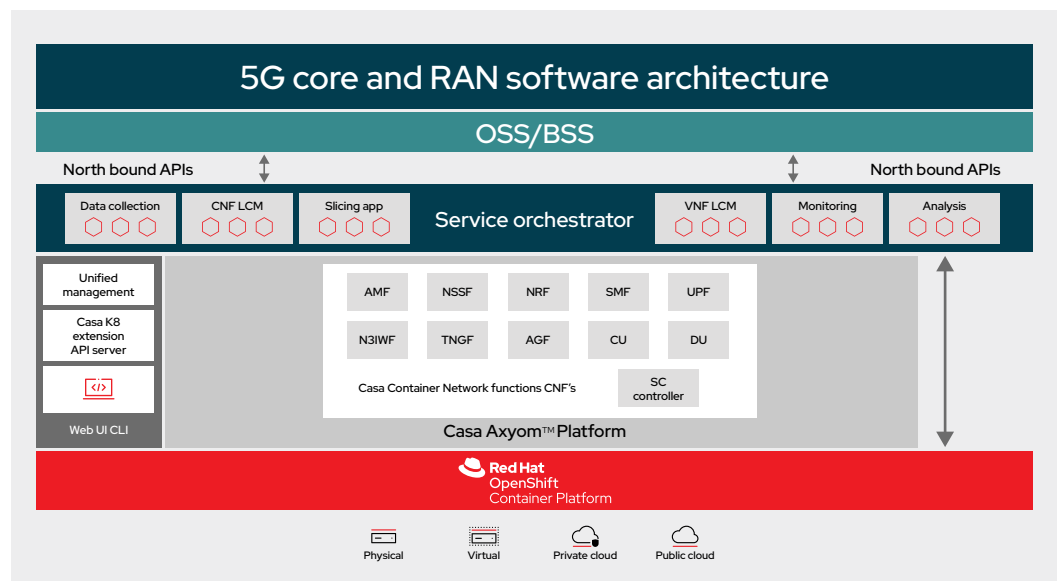
- ▶ Red Hat OpenShift
- ▶ Casa Systems Axyom Software Platform

For telecommunications service providers (telcos), introducing new services and experiences faster is essential for revenue growth. As you evolve from traditional to digital services, you face a number of challenges related to agility, complexity, cost, and competition. In addition, demand for mobile digital services and an increasingly diverse traffic profile requires networks that are highly adaptable, scalable, and economical to deliver services like 5G and edge computing.

Over the last few years, broadband networks have been transformed by cloud computing, network function virtualization (NFV), and software-defined networking (SDN). Telcos previously deployed a number of virtual network functions (VNF), but found that VNFs implemented in vertically integrated stacks did not deliver the expected benefits of agility and lower costs. Today, newer technologies like cloud-native network functions (CNF), microservices, and Kubernetes, along with methodologies like agile and DevOps, provide the speed, agility, and scalability needed to add services quickly and efficiently, while centrally managing and orchestrating resources.

Modernize for speed, agility, and scalability

Casa Systems' Axyom Software Platform is an end-to-end, cloud-native wireless network platform that offers a web-scale wireless solution based on a distributed microservices framework running on Red Hat® OpenShift®. It includes certified third-party components and CNFs for mobile, fixed, and converged service providers. Its integration with Red Hat OpenShift provides cost-effective core and edge deployments and modernizes service creation and network management, allowing you to quickly adapt to changing conditions and be prepared for the future.



Red Hat OpenShift is a telco-grade Kubernetes container platform with full-stack automated operations to manage hybrid cloud, multi cloud, and edge deployments.

Casa Systems' Containers-as-a-Service (CaaS), with Red Hat OpenShift, provides ease-of-deployment and life-cycle management regardless of where the solution is deployed.

With the Axyom Software Platform running on Red Hat OpenShift, you have the tools to deploy innovative services and scale faster to keep up with service spikes. Axyom Software Platform and Red Hat OpenShift help speed development of services and experiences and meet service-level agreements (SLAs) with a modern approach to DevOps and continuous integration and continuous delivery (CI/CD).

Axyom's microservices-based design allows you to introduce new services faster and gives you more maintenance flexibility because fixes can be made to an individual microservice, rather than having to modify and test a monolithic code base.

Reduce capital expenditures and operating expenses (CapEx and OpEx)

Casa Systems' excellent performance allows its CNFs to run with fewer servers, significantly lowering CapEx and OpEx requirements for Axyom-based networks. Casa delivers an industry-leading, minimal vCPU CNF footprint that dramatically improves resource utilization. CNFs can be scaled down to as low as four vCPUs in a lean configuration. Lean footprint CNFs allow you to reduce power consumption related to OpEx and to support multiple tenants on a single server. Casa Systems reduces operational cost with outstanding performance, advanced management, automation, and security tools to streamline IT maintenance.

Deploy anywhere and anyhow

Casa Systems' end-to-end solution integrated with Red Hat OpenShift provides the network core components you need to deploy quickly from the core all the way out to the edge and scale like the hyperscalers. Casa's broad 5G wireless and wireline portfolio allows you to take advantage of new technologies, like RAN slicing, low latency, local breakout, and wireless/wireline convergence solutions, that provide high-value feature content.

Why Red Hat and Casa Systems

Unlike competitive systems with replatformed appliance-based code, Casa's Axyom Software Platform was built using cloud-native design. Combined with Red Hat OpenShift, you get a system optimized to provide you with the speed, agility, and scalability you need to maintain your competitive edge, grow your subscriber base, and increase your average revenue per user (ARPU). You also benefit from Red Hat and Casa Systems certified partner ecosystems, as well as access to a community of experts, knowledge resources, and support tools.

Learn more about wireless solutions from [Red Hat](#) and [Casa Systems](#).



About Red Hat

Red Hat helps customers standardize across environments, develop cloud-native applications, and integrate, automate, secure, and manage complex environments with [award-winning](#) support, training, and consulting services.

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