Ribbon Application Management Platform

Ribbon Application Management Platform (RAMP) is the foundation for management of Ribbon's VoIP product portfolio now and into the future. RAMP provides a complete Fault, Configuration, Accounting, Performance, and Security solution with a robust portfolio of management and provisioning tools. Architected from the ground-up using CNCF cloud native design and implementation principles (declarative APIs, microservices, observability, and containers), RAMP has the flexibility to quickly add features and functionality, the scalability to handle the management needs of any sized enterprise or service provider, and the efficiency to reduce operational costs.

With RAMP, Ribbon's customers will have an integrated management solution leveraging the following cloud-native capabilities:

- ***API first architecture*** – REST APIs enable automated integration for northbound interfaces into a customer's operational processes and ease integration on southbound interfaces for the devices being managed.
- ***Microservices*** – provides modularity for functionality making them easier to deploy, update, and scale independently. This enables a customer to take advantage of lifecycle automation for scaling and high performance and to simplify the ability to incorporate new functionality
- ***Observability*** – yielding meaningful, actionable data to customers, allowing them to achieve favorable outcomes such as faster incident response and increased productivity
- ***Containers*** – by sharing a common operating system and its machine resources across multiple containers, it spreads the operating system's resource overhead creating efficient use of the physical machine.

For our customers, RAMP ensures the following:

- ***Operational efficiency*** – intuitive navigation and user customization
- ***Reduced operational costs*** – simplification and automation of day-to-day management and lifecycle tasks
- ***Reduction in problem resolution time*** – enhanced troubleshooting using predictive analytics on data gathered through reactive and proactive monitoring
- ***Multiple options for licensing*** – support for Network-Wide and Multiyear Domain Locked licensing as well as True Forward Subscription licensing, with integrated audits and billing
- ***Multi-tenancy*** – enabling the ability to offer secure and privacy-compliant Management as a Service
- ***Security*** – conformance to latest security standards
- ***Survivability*** – geographic redundancy options to meet high availability and disaster recover requirements

Ribbon Application Management Platform is deployable in multiple virtual (VMware, KVM, OpenStack) environments as well as both private and public (OpenShift, Azure, AWS) container environments.

Used to potentially manage hundreds or thousands of devices, RAMP has adopted a streamlined and customizable graphical user interface that maximizes the 'single pane of glass' construct. Figure 1 below show the home dashboard and the main navigation options (on the left).

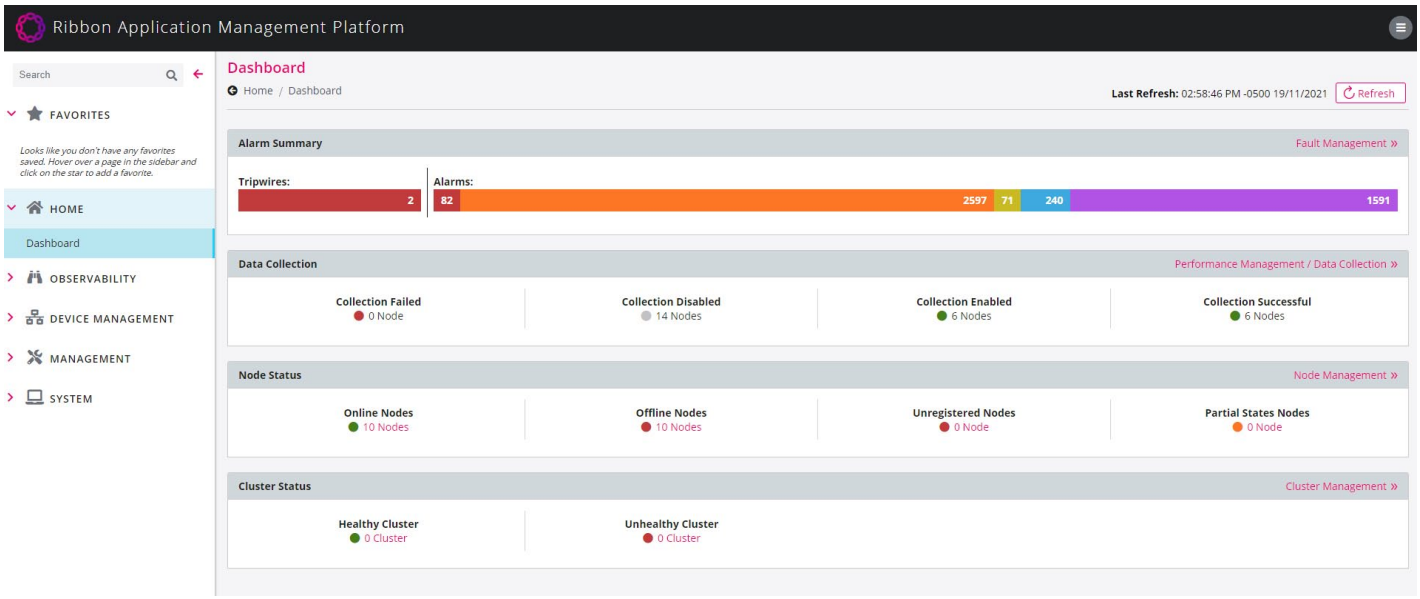

Figure 1. Single Pane of Glass Construct

RAMP dashboards are designed to provide a concise overview of the health of managed elements with color-coded information to quickly identify which areas are healthy and which may require attention. Because each customer will likely have different visualization and reporting requirements, RAMP provides the ability for a customer to customize their dashboard views. Each major functional domain is reachable via the 'home" dashboard and provides multiple drill-down options for function specific views.

Automation of information exchange between RAMP and external management processes is accomplished by implementing a robust API architecture. Designed as an API-first architecture, RAMP seamless integrates with northbound operations systems and southbound with managed elements.

RAMP integrates management of Ribbon's Cloud and Edge device portfolio allowing a comprehensive and common user experience, such as the managing core and edge session border controllers along with centralized routing from the PSX. RAMP works seamlessly across any combination of appliance, virtual, and cloud-native device instances that a customer may have deployed.

Future releases will expand Ribbon product coverage and feature capabilities.

Be confident in knowing RAMP is forward-looking, designed to take advantage of cloud-native attributes and be aligned with Ribbon's VoIP product portfolio evolution to cloud-native deployment models. Yet at the same time RAMP is backward compatible to manage Ribbon's installed base of both appliance and virtualized products.

Contact Us Contact us to learn more about Ribbon solutions.