Ribbon Analytics Platform

Ribbon's Analytics portfolio for real-time communications is a platform that collects and analyzes data across the entire communications network providing insights into network-wide behavior. With this information, you can respond to real-time communications security and network quality incidents faster, more intelligently, and more efficiently.

The Ribbon Analytics platform, and its associated applications, provides you with the analytics and insights required for real-time communications network operations and threat intelligence detection. This virtualized, big-data platform enables you to tap rich data sources that produce the necessary insights needed to develop, manage, and deploy highly innovative and responsive services. Ribbon eliminates lengthy data analysis by providing immediate actionable intelligence that arms you with real-time, cross-correlated, time-aligned data across access technologies, services, protocols, end-to-end applications and subscribers.

With Ribbon's Analytics platform, you have ready access to actionable data that enables smart decision making, especially when it comes to real-time communications security and network operations. Analytics empowers you to take a proactive competitive stance in light of a dynamic industry that is under constant threats such as fraud and robocallers as well as continuously changing to meet the innovations of the latest apps, devices, connections, and technologies.

From fast-path content ingestion, to reporting, to API capabilities, Ribbon Analytics Platform is built for visibility, agility and automation.

Benefits

Stay ahead of outages
Fix issues faster
Gain immediate ROI
Manage growing networks
Identify Security Threats
Justify upgrades
Report on SLAs

Visibility

Agility

Automation

Figure 1. Shows how Ribbon Analytics benefits your network

Minimum Requirements

- Intel Xeon processors minimum 8 cores
- Minimum = 64GB and recommended = 128GB
- Minimum 1TB (SSD or better technology only)
- 1GB/s or higher with 3 vNICs

Software Platforms

- VMWare 6.0 or higher
- KVM
- Amazon Web Services (AWS)
- OpenStack

Geographic Redundancy

For multi-node deployments on KVM or VMware, Ribbon Analytics supports geographic redundancy using a pair of clusters that work together in an active-standby configuration. The pair works together to coordinate operations and synchronize data, so that if there is a failure in the active cluster, the standby cluster can take over with minimal service interruption.

Supported Network Devices & Applications

Network Probes:
- Ribbon Data Capture Engine (DCE)

Ribbon SBCs:
- SBC SWe, SBC 7000, SBC 5000 Series, SBC 1000, SBC 2000, SBC SWe Edge, EdgeView/EdgeMarc, Q20, Q21

Ribbon Call Controllers & Gateways:
- C20, C15, C3, MRFP, G9, GSX

Ribbon Policy Servers:
- Ribbon PSX

Ribbon EMS:
- Collect performance and statistic reports via the EMS for Ribbon SBC, GSX, & PSX

Microsoft MS Teams Third Party Devices:
- Oracle SBC
- Cisco Unified Communications Manager (CUCM)
- OKI Centerstage
- Additional 3rd party devices can be supported via 3rd party

  device framework and custom mitigation policy creation

Firewalls:
- Palo Alto

*Please refer to the release notes for the up-to-date device support list.

Platform Functionality and Capabilities:

- REST API
- LDAP authentication
- Historical data import
- High-speed data ingestion
- No hardware or software probes required
- Microservices, container-based solution
- Horizontal scalability
- Extendable application architecture including advanced

  algorithms and machine learning framework
- Data forecasting for traffic and device statistics
- Support for geographic redundancy
- Ability to push policies to devices network wide
- Multi-vendor device support
- Rich customizable charts and dashboards
- Comprehensive KPI trending and diagnostics
- Customizable, real-time alerts
- Dashboard reporting with configurable schedule
- Deep drill-down analysis
- Network-wide SIP ladder diagram stitching
- Automated security mitigation with reversal capabilities
- Network threat sharing between elements
- Import of 3rd party threat and "do not call" databases
- CDR enrichment or data enrichment

Rapid discovery, rapid review, rapid resolution…so your mission-critical communications remain secure and available.

Contact Us   We are here to help. Let us know if you are interested in a quote or if you have any questions.

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