Ribbon Analytics: Protect Platform

Ribbon's Analytics portfolio for real-time communications is underpinned by the Ribbon Protect 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.

Protect platform, and its associated applications, provides you with the analytics and insights required for real-time communica- tions 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 Protect 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, enabled by Ribbon Protect, 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 Protect is built for scalability, reliability, and performance. Figure 1 shows how the Protect fits into the Ribbon Analytics architecture.

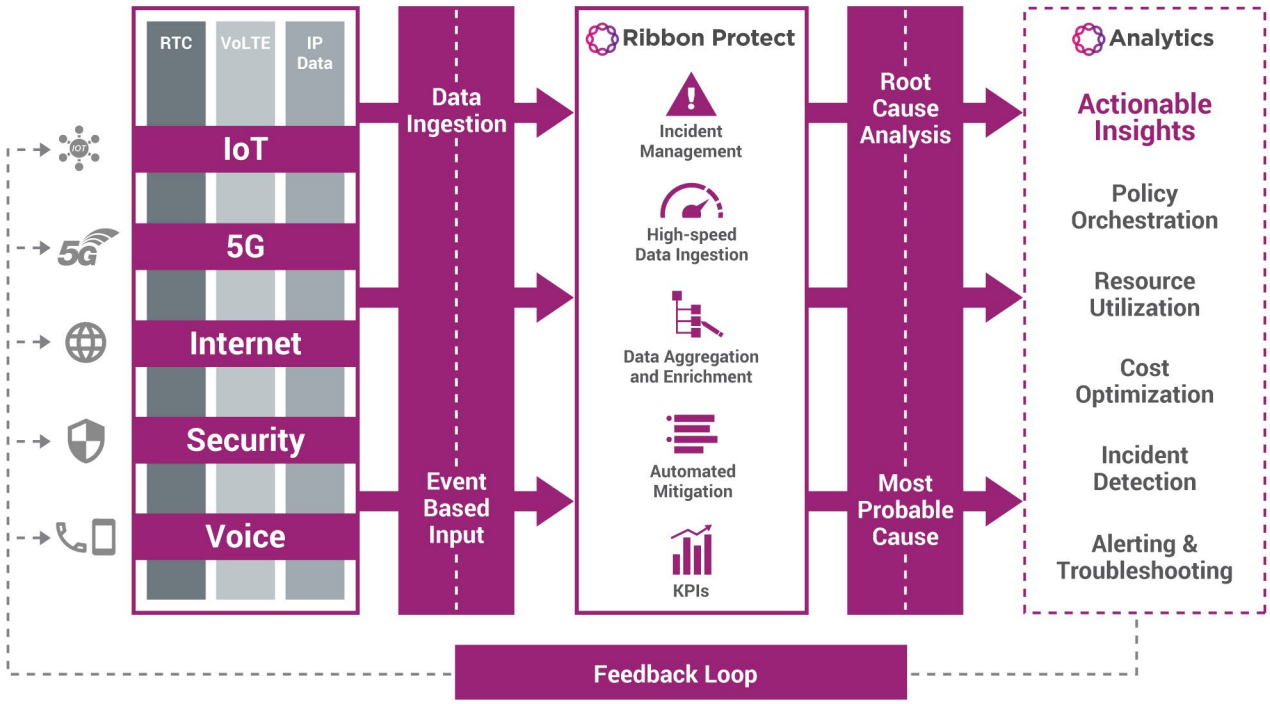

Figure 1. Ribbon Protect in the Ribbon Analytics Architecture

Resource Requirements

Configuration	Minimum Requirement
Processor	Intel Xeon processors minimum 8 cores
RAM	Minimum = 64GB and recommended = 128GB
Hard Disk	Minimum 1TB (SSD or better technology only)
Network Interface Cards (NICs)	1GB/s or higher with 3 vNICs
Hypervisor	VMWare 6.0 (or higher); KVM

Supported Deployment Models

Deployment	Requirement
On-premises	1 VM (lab) or 3 VMs
Public Cloud	Amazon Web Services: 1 VM (lab) or 3 VMs

Supported Network Devices*

Network Probes:
- Ribbon Data Capture Engine (DCE)

Ribbon SBCs:
- SBC SWe, SBC 7000, SBC 5000 Series, SBC 1000, SBC 2000, SBC SWe Lite, Q20, Q21

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

Ribbon Policy Servers:
- Ribbon PSX

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
- 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.