

Ribbon NetProtect

Redefining the Real-time Communications Security Perimeter



Attacks on voice over IP (VoIP) traffic continues to increase and these new VoIP attacks are costing service providers and enterprises billions of dollars each year in toll fraud, theft of service, telephony denial-of-service attack and more.

If you are managing a communications network, then you need to have a “zero-trust” strategy for both the external and internal aspects of your network. With VoIP and the new security threats that are exposed, new doorways are being defined by bad actors looking for easy access into your network. Therefore, the security stack must be re-architected to protect both data and voice across the entire network.

The market now demands a new unified security perimeter that combines the capabilities of next generation firewalls with the capabilities of best-in-class session border controllers. Only by unifying the visibility, policy and enforcement across voice and data domains can you ensure the most secure posture against new and existing attacks.

The Threat

Bad actors are constantly looking for ways to cause havoc either for monetary gains, to disrupt internal and external facing customer services, or just do reconnaissance into the entire corporate network. And, the rapid pace of growth for SIP-based real-time communications (RTC) has caught the attention of bad actors.

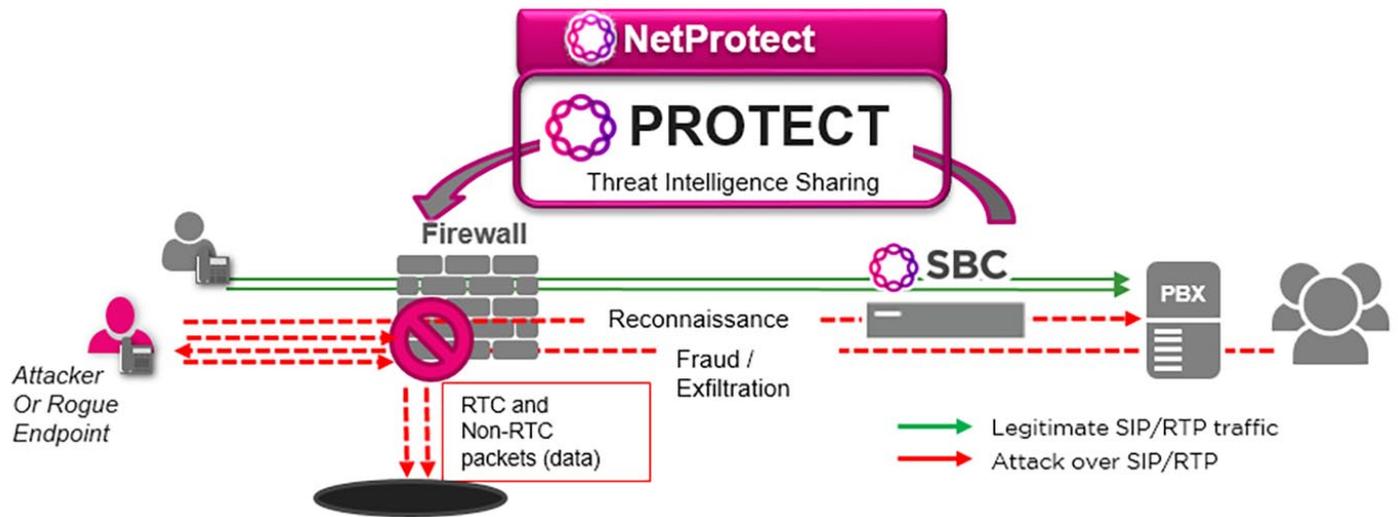
Bad actors are designing their attacks to bring down your communications infrastructure through means such as a telephony denial-of-service (TDOS) attack, voice phishing, registration floods, malicious endpoints, fraud, SIP services password attacks and many more. Bad actors can also exploit communication network vulnerabilities by eavesdropping on private communications or trying to access to a user’s telephony account via registration hijacking so they can wreak havoc or just do reconnaissance in the entire corporate network.

Solution

To address the numerous types of RTC threats, Ribbon’s NetProtect application is the answer for your communication network that cannot be secured at any individual device or application layer. NetProtect coordinates RTC protection at the IP, application, and call layers which changes how RTC security is implemented.

With NetProtect, you can now close the RTC security aperture against threats such as theft of service via RTP hijacking by identifying these threats in near real-time and then sharing dynamically created bad actor policies and enforcement methods back down into the entire network to prevent any further attacks. NetProtect also has a cooperative learning methodology with the other Protect RTC security and fraud-based applications by dynamically sharing its bad actor lists.

NetProtect redefines your RTC security protection by creating a global security perimeter through network-wide detection, sharing and enforcement across all network elements such as Ribbon SBCs, 3rd Party SBCs, firewalls and other network devices. By linking the control plane messaging between platforms in real time, existing and new hacking efforts against your communications infrastructure are effectively blocked and the threats are mitigated.



Protect

NetProtect is part of Ribbon Protect platform's suite of applications. The Protect analytics platform empowers enterprises and services providers to respond to real-time communications security and network quality incidents faster, more intelligently, and more efficiently in the face of a cyberattacks or business crisis on their real-time communication (RTC) networks.

The heart of the Protect platform is its UC anomaly detection and policy mitigation capability. The anomaly detection module collects and presents the administrator with a view of incidents across their entire communications network. With customer-defined policy management functionality, detected anomalies generate alerts (e.g. SMS, email) and can be mitigated with actions to the appropriate network elements in real-time.

[Contact Us](#) Contact us to learn more about Ribbon solutions.

About Ribbon

Ribbon Communications (Nasdaq: RBBN) delivers communications software, IP and optical networking solutions to service providers, enterprises and critical infrastructure sectors globally. We engage deeply with our customers, helping them modernize their networks for improved competitive positioning and business outcomes in today's smart, always-on and data-hungry world. Our innovative, end-to-end solutions portfolio delivers unparalleled scale, performance, and agility, including core to edge software-centric solutions, cloud-native offers, leading-edge security and analytics tools, along with IP and optical networking solutions for 5G. We maintain a keen focus on our commitments to Environmental, Social and Governance (ESG) matters, offering an annual Sustainability Report to our stakeholders. To learn more about Ribbon visit [ribbon.com](https://www.ribbon.com).