

UM Labs SC - 6600

SIP Security Controller for VoIP Carriers

Benefits

Scalability and Resilience. Clustering architecture provides the capacity and resilience needed for carrier-grade deployment.

Firewall Grade IP Security. Protects core systems from IP flooding and other attacks ensuring service continuity

Transport Conversion. Seamlessly links multiple SIP transports simplifying service provision.

Easily Connect to Other Systems. Provides interoperability between most popular IP PBXs. If that's not enough, a scripting toolset is included to add your own extensions.

Extend Service Everywhere. Without any additional work or VPN, users receive full VoIP service at any location: office, home, or public hotspot - on any device. Resolves all complex routing and far-end NAT traversal issues.

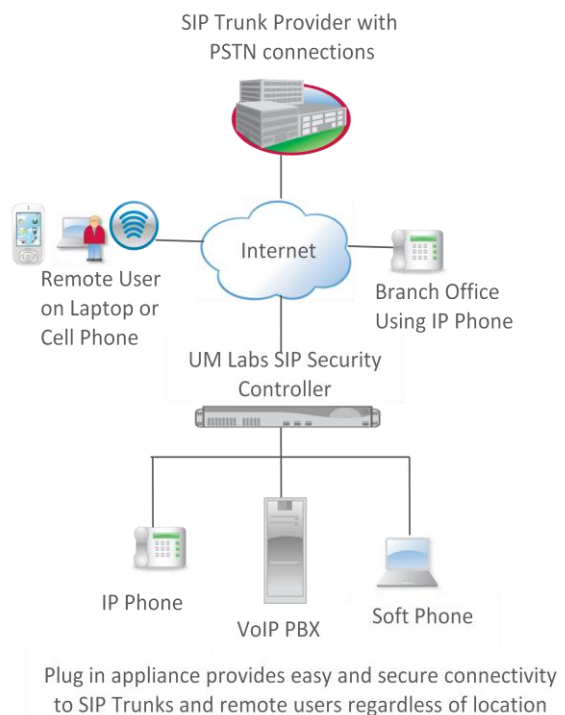
Safeguard Your Network. Firewalls are not designed to handle VoIP and SIP specific threats. The SIP controller provides this missing level of security without impacting quality of service.

Protect Subscribers Against Call Monitoring. Provides subscribers with value added end-to-end encryption of all voice and video traffic to ensure privacy on all devices, including cell phones.

Improve Quality of Service (QoS). UM Labs products can tag voice and signalling packets with Diffserv flags to ensure that voice traffic is prioritized.

Extend VoIP Service...Easily and Securely

Unified Communications or Unified Messaging, including Voice over IP (VoIP), is a transformative technology, offering organizations greater flexibility, improved service and significant cost savings. However, because of technical and security challenges, many organizations limit its use to "behind the firewall". The UM Labs SIP Security Controller is a plug-in appliance designed to address these challenges and deliver on the full promise of VoIP.



Connectivity

Firewalls and routers were not designed for VoIP traffic. Technical problems include Network Address Translation (NAT), far-end NAT Traversal, and maintaining state in a real-time VoIP conversation. In addition, although SIP is a global standard, most telephony software vendors include their own extensions, often not supported by others. This means that calls to a SIP trunk provider or remote users are usually not possible without significant effort, or at best, subject to dropped calls and audio quality problems. The UM Labs product line provides a complete solution for the problems of Network Address Translation (NAT) and far-end NAT Traversal, and includes a unique scripting capability to ensure that any IP PBX can connect to any trunk service.

Network Security

Connecting a VoIP system to the internet provides an organization with significant benefits, but also exposes it to new risks. Traditional firewalls, including SIP aware firewalls, do not adequately address well documented VoIP specific threats such as call flooding, toll fraud, call disruption, VoIP spam, and denial of service attacks. Moreover, configuring a firewall to handle VoIP requires changes to the firewall's configuration to open a number of network ports. This introduces the real risk that the firewall's ability to protect other applications from attack will be compromised. In addition, data firewalls often impact the performance of SIP traffic which leads to quality of service issues such as jitter and delay. The UM Labs SIP Security Controller delivers firewall grade IP level security optimized for SIP protocol and VoIP.

Encryption

Unlike a dedicated PSTN line, a VoIP call over the public internet is exposed to eavesdropping and unauthorized recording. The UM Labs SIP Security Controller delivers encryption for both voice and video calls, ensuring the confidentiality of all calls made from remote devices, including suitable SIP hardware phones, soft-phones and mobile devices such as cell-phones and PDAs. These calls are protected by encrypting the voice and video streams sent to and from these devices. The UM Labs product line offers a choice of call encryption schemes, including ZRTP designed by Phil Zimmermann, creator of the widely used PGP email encryption protocol. ZRTP includes features that ensure end-to-end security, making it ideal for use on mobile networks. All encryption schemes offered deliver high grade encryption for both voice and video using the AES encryption algorithm.

SC-6600 Specifications

UM Labs SIP Security Controllers are delivered as a range of fully configured hardware appliances. The SC-6600 is our carrier model. The SC-6600 is a scalable system delivered as an expandable cluster. The exact specification will depend on individual throughput requirements. A cluster of SC-6600 appliances can support over 1,000 concurrent active VoIP calls..

Capacity: <ul style="list-style-type: none">Over 1,000 concurrent calls	Encryption: <ul style="list-style-type: none">SIP-over-TLS, up to 256 bit AES, 2048 bit RSASRTP with SDES key exchangeSRTP with ZRTP key exchange (additional license required)SRTP gateway with terminationSRTP pass-throughHTTP digest authentication for all qualifying SIP requests
Service Quality: <ul style="list-style-type: none">QoS and Diffserv	
Management: <ul style="list-style-type: none">Secure web GUI interfaceRemote Syslog	
Hardware: <ul style="list-style-type: none">Rack-mount architecture - multiple serversMinimum of 6 gigabit Ethernet RJ-45 portsRS-232 console ports and dedicated network ports for managementHardware RAID disks☑ Integrated clusteringRoHS, WEE compliant	Software Compliance: <ul style="list-style-type: none">RFC 2475RFC 3261RFC 3711RFC 4568RFC 2617

About UM Labs UM Labs Ltd. was founded in 2008 by security software pioneers dedicated to the promotion of secure global standards for unified communications. The company has an extensive support organization and partner network, with offices in the following locations:

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