

nCite™ SG Security Gateway



- Leaders in Security, Performance, Scale and Redundancy
- Supports IKE cryptographic key exchange (IKEv2) and multiple X.509 certificates for user authorization
- Supports advanced AES encryption for content integrity
- Supports IMSI Filtering for IKEv2 DoS Protection
- NAT traversal using UDP encapsulation of IPsec packets
- Supports rate limiting of traffic to the UNC, DNS Server, Media Gateway and GPRS Gateway

The **nCite™ Security Gateway (nCite SG)** provides a key security function that enables high quality interactive communications between dual mode cellular phones, WIFI access points and UMA network service providers. Unlicensed Mobile Access (UMA) technology provides access to GSM and GPRS mobile services over unlicensed spectrum technologies, including Bluetooth and 802.11. By deploying UMA technology, service providers can enable subscribers to roam and handover between cellular networks and unlicensed wireless networks.

NETWORK PROTECTION WITH IPSEC ENCRYPTION

The nCite™ SG provides a highly secure connection using IPsec encryption technology and protects the service provider network, application and subscriber from threats and attacks originated on the public IP network. The nCite SG is a key network element for Fixed Mobile Convergence (FMC) and supports next generation architectures including 3GPP, ETSI TISPAN, and IMS providing the highest levels of performance, capacity, scalability, availability and manageability.

When a security session must traverse Firewall/Network Address Translation (FW/NAT) devices, the nCite SG supports UDP encapsulation of IPsec packets. Access Control Lists (ACLs) can be configured to allow access based on destination IP address, destination port, or protocol ID.

SECURE AUTHENTICATION

The nCite™ SG supports the Internet Key Exchange (IKEv2) protocol. With IKEv2, certificates can be used on the nCite SG to prevent man-in-the-middle attacks and to eliminate the possibility of a third-party impersonating the other party in a secure communication session establishment. The nCite SG uses the Extensible Authentication Protocol (EAP) for IKEv2 UMTS, CDMA, and WiFi authentication.

NCITE™ SG FEATURES

- Confidentiality and Integrity Mechanisms
- Internet Key Exchange
- Firewall/NAT Traversal
- EAP-SIM/AKA
- EAP MD5

ENHANCED SECURITY FEATURES

- Hardware based DoS Protection
- IKEv2 Cookies
- Source IP address spoofing
- Support for whitelists and blacklists for MS identifiers (IP address and domain)
- Exportable audit logging for fraud monitoring
- TCP Syn flooding protection against core signaling components
- Resource theft protection and fair use policies
- Traffic Management
- Protection against peer timeouts and intelligent reaction to IMSI dictionary attacks
- Tunnel management through external API

AudioCodes Products for Session Management and Security

nCite™ SG

SPECIFICATIONS

Capabilities

- Performance**
- 300,000 simultaneous IPsec tunnels
 - 900,000 security associations (IKE, ingress traffic and egress traffic for each MS)
 - Total throughput of 4 Gbps, sustainable even with the small RTP packets used to transport circuit switched voice flows
 - Up to 27,850 simultaneous VoIP calls - Assumes GSM Full Duplex 12.2 kbps codec with 20 ms framing
 - Up to 7,600 simultaneous data sessions - Assumes an average bandwidth of 512 kbps (256 kbps upstream and 256 kbps downstream)

- Reliability**
- Supports Active/Stand-by configuration
 - Geographic Redundancy supported across WAN links
 - Uninterrupted service in the case of device or link failure - IPsec tunnel and IKEv2 connections are kept across failure conditions
 - Sub-second failover for link, card, software and AAA server failures
 - Live software upgrade (no call or media failure)

- Management**
- Standard MIB Support
 - SNMP
 - UNC and RADIUS notifications
 - Hitless Software Upgrades
 - Downstream Failure Detection
 - Dynamic Configuration Changes Operations
 - Dynamic Configuration Changes

- Operations**
- RADIUS Authentication and Accounting
 - IKEv2 logging
 - Detailed IKEv2, IPsec, UNC and RADIUS Statistics
 - Off-Board Logging – Syslog

Hardware

Physical

Dimensions: 5.218"x17"x22.23" (13.25cm x 43.18cm x 56.45cm)
Weight: (fully loaded) 60 lbs (27.22 kg)
Operation temp: 32F - 104F (0C - 40C)
Humidity: 5%-85% non-condensing
Heat dissipation: 597 BTU/hour

Power requirements

Max Power: 175 W

DC

Voltage Range: -40 /-60 VDC
Maximum Current: 4.4 A @ -40 VDC
2.9 A @ -60 VDC

AC

Voltage Range: 100 VAC - 240 VAC
Current: 1.75 A @ 100 VAC
0.73 A @ 240 VAC

APPLICATIONS

- GERAN / UMAN access
- I-WLAN access

ABOUT AUDIOCODES

AudioCodes Ltd. (NASDAQ: AUDC), Your Gateway to VoIP, provides innovative, reliable and cost-effective Voice over Packet (VOP) technology, Voice Network products, and applications to OEMs, Network Equipment Providers, Service Providers and System Integrators worldwide. AudioCodes provides a diverse range of flexible, comprehensive media gateway and media processing technologies (based on VoIPerfect™ - AudioCodes' underlying, best-of-breed, core media gateway architecture) and Session Border Controllers (SBCs). The company is a market leader in product development, focused on VoIP Media Gateway, Media Server and SBC technologies and network products. AudioCodes has deployed tens of millions of media gateway and media server channels globally over the past few years and is a key originator of the ITU G.723.1 standard for the emerging Voice over IP market. The Company is a VoIP technology leader focused on quality, having recently received a number one ranking from ETSI for outstanding voice quality in its media gateways and media servers. AudioCodes voice network products feature media gateway and media server platforms for packet-based applications in the converged, wireline, wireless, broadband access, enhanced voice services and video markets. AudioCodes enabling technology products include VoIP and CTI communication blades, VoIP media gateway processors and modules, and CPE devices. AudioCodes' headquarters and R&D facilities are located in Israel with an R&D extension in the U.S. Other AudioCodes' offices are located in Europe, the Far East, and Latin America. For further information on AudioCodes, visit www.audiocodes.com.

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