



## PRODUCT DESCRIPTION

Check Point 21600 and 61000 Carrier Security Solutions provide complete integrated security, scalability and world-record performance for next-generation LTE mobile networks.

# Check Point Carrier Security Solutions

The growing power of mobile devices, and subscribers' hunger for richer, faster mobile Internet services, is introducing a range of new security risks for network operators and service providers. Dramatic growth in smartphone and mobile application usage is introducing new challenges and new vulnerabilities to networks, while the move to IP-centric architecture in next-generation LTE networks means that networks are vulnerable to security attacks from the radio access interface.

These fundamental changes demand new approaches to securing mobile networks, customer data and devices against current and emerging threats, while keeping networks running with maximum availability and performance.

Check Point's Carrier Security solutions deliver complete protection for 3G and 4G LTE networks, giving mobile carriers and network operators a single, integrated platform for securing their entire next-generation infrastructure.

Built on the award winning, proven technologies used by Fortune 100 companies and telcos all over the world, Check Point's Carrier Security solutions secure all LTE interfaces, protect the mobile packet core, secure roaming connectivity, and support a range of subscriber value-added security services. This enables MNOs and carriers to maximise their infrastructure investments with comprehensive protection, scalability, and opportunities for managed security service offerings.

### Integrated protection for a carrier's entire infrastructure

Check Point's dedicated 61000-Carrier Security System and 21600-Carrier appliance offer scalable solutions with optimal price-performance for carriers of all sizes. Both solutions give a single, integrated platform for protecting all 3G and 4G Interfaces connected to the mobile packet core:

- Securely connect thousands of 4G LTE Radio Stations (eNodeBs) to the Evolve Packet Core network, using IPSec to authorize connectivity and encrypt user data traffic
- Secure IP Internet connectivity for devices with IPv4 and IPv6 addresses with the most scalable carrier-grade NAT (CGNAT) firewall, supporting up to 70M concurrent sessions

## FEATURES

- World's fastest platforms for real-world traffic with 30Gbps IPSec throughput on 2U 21600-Carrier, and up to 56Gbps on 61000-Carrier Chassis
- Securing the world's largest carriers with 61000 Carrier-Grade-NAT supporting up to 70M concurrent connections and 600,000 sessions per second
- Stateful inspection on all LTE protocols including GTP, SCTP and Diameter
- Dedicated 61000 and 21600 Carrier Security Platforms offer a scalable solution with optimal price performance for carriers of all sizes
- Centralized, single-console management with role-based administration
- Optimized for the flexible and extensible Software Blades architecture: offer subscriber-based Value-Added Security services including IPS, Antivirus, Web security and Anti-Bot

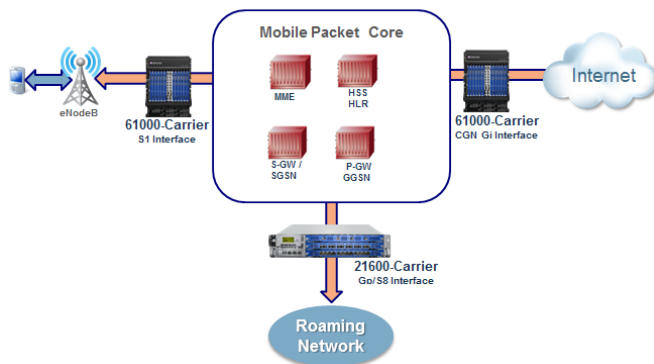
## BENEFITS

- Single platform to secure all LTE Interfaces including Internet Gi Connection, S1 LTE Radio Access, roaming connectivity and Packet Controller
- Minimal latency and maximum performance for growing mobile data traffic volumes
- Easy security management across the entire mobile network, reducing operational and maintenance effort and lowering TCO
- Massively flexible security architecture with modular components for easy deployment of new security protections
- Support current and future needs without performance penalties
- Consolidate gateways and secure multiple networks with Virtual Systems



## Check Point Carrier Security Solutions

- Secure roaming connectivity with partners' roaming networks
- Complete control of infrastructure security with unified policies, monitoring, management, logging and reporting for all carrier interfaces



Check Point is also the only vendor to offer inspection on all LTE protocols, including GTP, SCTP and Diameter. This gives unrivalled, integrated security for LTE networks, protecting against DDoS, signaling storm, port scan, sweep scan, spoofing and overbilling attacks, advanced application malware, and securing subscribers' data.

### Ground-breaking performance

Check Point's 61000-Carrier Security System delivers a firewall throughput of up to 200Gbps today and up to 1Tbps in the future. Furthermore, its ability to support 70 million concurrent connections and 600,000 sessions per second brings unparalleled performance to the 3G and 4G LTE environments. The 21600-Carrier 2 rack-unit Appliance delivers the industry's best Telco mobile security performance in its class, with 50Gbps of IPsec throughput and over 10Gbps of GTP, SCTP and Diameter security inspections, unmatched scalability, serviceability and port density.

### Enables subscriber value-added services

Check Point's Carrier Security solutions also enable support and delivery of Value Added Security services for subscribers, including IPS, Antivirus, URL Filtering, Application Control and Anti-Bot, directly from the Gateway. MNOs and service providers can deliver additional identity-based security services to mobile subscribers, helping to differentiate services.

### Business continuity, reliability and extensibility

Check Point's Carrier Security solutions deliver business continuity and serviceability through features such as hot-swappable redundant power supplies, hot-swappable redundant hard disk drives (RAID) and redundant fans. With Check Point's Software Blade Architecture™, additional security protections are easily deployed and provisioned.

The solutions can be managed locally with their integrated security management or via central unified management. This simplifies the monumental task of managing large carrier environments. Our comprehensive, centralized security management system controls all Check Point gateways deployed on mobile network interfaces, and advanced log analysis gives real-time visibility into billions of log records over multiple time periods and domains.

With the 61000-Carrier platform, Check Point Virtual Systems enable organizations to consolidate up to 250 virtualized security gateways on a single hardware platform. This reduces costs and offers customized Software Blade security on a per-Virtual System basis. The solution supports seamless performance scale-up by adding more Virtual Systems and hardware blades, with traffic evenly balanced across the entire chassis.



	21600 Carrier	61000 Carrier
<b>Performance</b>		
SecurityPower	2501 / 3300 <sup>1</sup>	3000 to 14600
Firewall Throughput	Up to 110Gbps <sup>1</sup>	Up to 200Gbps
VPN IMIX Throughput	Up to 30Gbps <sup>1</sup>	Up to 56Gbps
IPSec Tunnels	10,000	50,000
IPS Throughput (Default/Recommended Profiles)	21Gbps / 6.8Gbps	Up to 110Gbps / 40Gbps
Concurrent Sessions	13M <sup>2</sup>	Up to 70M
Connections per Second	140K / 300K <sup>1</sup>	Up to 600K
<b>Virtual Systems</b>		
Virtual System Support	Yes	Yes
# of VS Supported	Up to 250	Up to 250
<b>Hardware Specifications</b>		
10/100/1000Base-T Ports	13 to 37	N/A
1000Base-F SFP Ports	up to 36	N/A
10GBase-F SFP+ Ports	up to 13	16 / 32
40GBase-F Ports (Max)	N/A	4
Security Acceleration Module	Yes	N/A
Enclosure	2RU	14RU / 15RU
Dimensions (Standard/Metric)	17" W x 28" D x 3.5" H 431 mm W x 710 mm D x 88 mm H	17.5" W x 15.16" D x 24.3" H 445 mm W x 385 mm D x 618.3 mm H
Max Weight	26 kg (57.4 lbs.)	90 kg (198.4 lbs.) (Chassis, 5 PSUs, fans, 2 CCM, 12 SGM, 2 SSM)
Operating Environment	Temperature: 32° to 104°F / 0° to 40°C Relative Humidity: 20% to 90% (non-condensing)	Temperature: 23° to 131°F / -5° to 55°C; Humidity: 5% to 90% (non-condensing)
Non-Operating Environment	Temperature: -4° to 158°F / -20° to 70°C Relative Humidity: 5% - 95% (non-condensing)	Temperature: -40° to 158°F / -40° to 70°C Relative Humidity: 5% to 90% (non-condensing)
AC Power Supplies	100~240VAC, 47~63Hz	No. of modules: 5 (max) Input: 100~240VAC, 47~63Hz Single module output: 1200-1500W
Power Consumption (Max)	449W / 744W1	5000W
Certifications	Safety: UL, cUL Emissions: CE, FCC Class A Environmental: RoHS	Safety: CE, UL, TUV Emissions: CE, FCC part 15 Environmental: Designed to be compatible with NEBS level 3, ETSI and RoHS

<sup>1</sup>With Security Acceleration Module

<sup>2</sup>With memory upgrade and GAiA OS

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