AhnLab TrusGuard

Next Generation Security Platform

TrusGuard is the next generation firewall to protect the organization from ever-evolving threats.
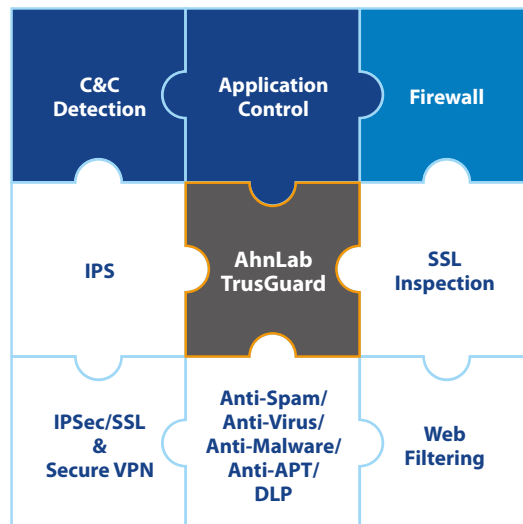
PERFORMANCE   DETECT   RESPONSE   STABILITY

Overview

The NGFW TrusGuard has been acknowledged by a thorough market assessment for its technology, performance and stability. The firewall, IPS, application control, VPN, C&C, Anti-Virus/Anti-Spam and DLP protect the business environment. TrusGuard has full lineup from the low-end to data center level models.

C&C Detection	Application Control	Firewall
IPS	AhnLab TrusGuard	SSL Inspection
IPSec/SSL & Secure VPN	Anti-Spam/ Anti-Virus/ Anti-Malware/ Anti-APT/ DLP	Web Filtering

√ **Differentiated NGFW Platform**
- In-depth protection on the global/local applications
- User policies settings/control
- SSL Inspection
- Interoperation with APT-exclusive MDS

√ **Threat Detection and Block Technology**
- Multi-layered engine for security threat
- Security Intelligence based threat detection
- In-house threat analysis and infrastructure
- Real-time threat information for fast response

√ **High Firewall Throughput and Performance**
- Advanced hardware platform
- High-performing multi-core distribution

√ **User Interface of Accumulated Know-how**
- Seamless flow of policies settings/control
- Flexible user interface of drag & drop

**Volumounous Traffic Throughput
High Performance Firewall**

**Differentiated Next Generation Security
on Various Threats**

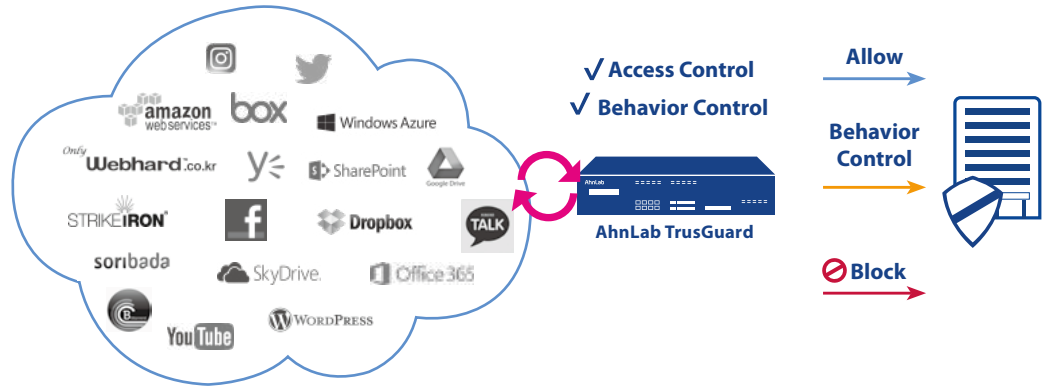**User Interface by Market Demand**

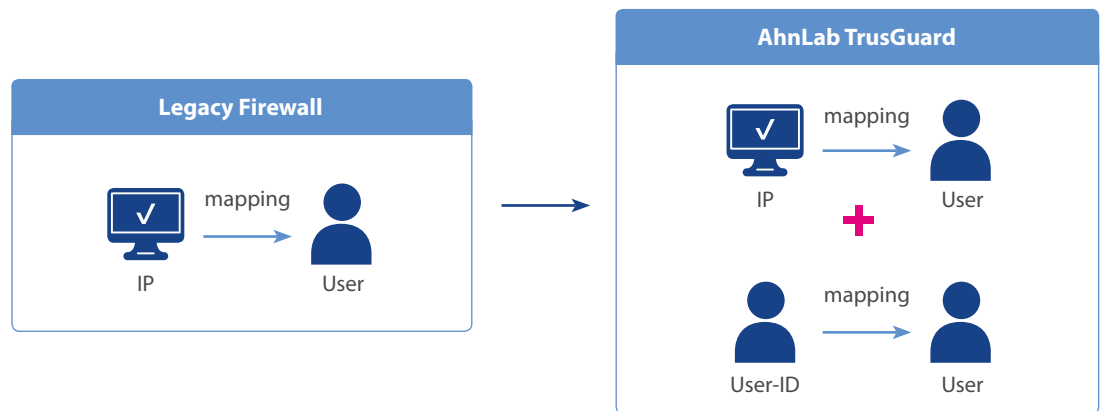**Exclusive Threat Detection and Response**

Next Generation Firewall

Application Control

Real-time analysis and blocking available on detail settings on the applications with Application Control including P2P, Webhard, Instant Messenger, SNS and thousands of global and local applications.
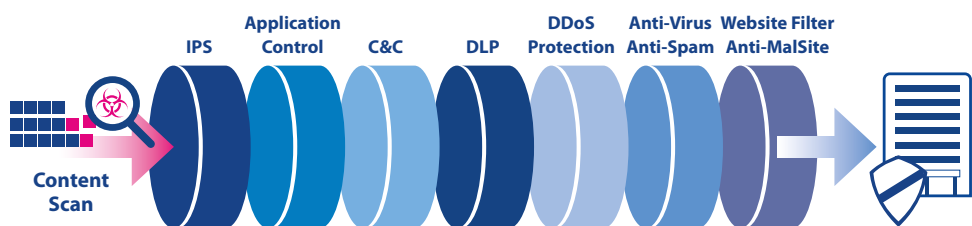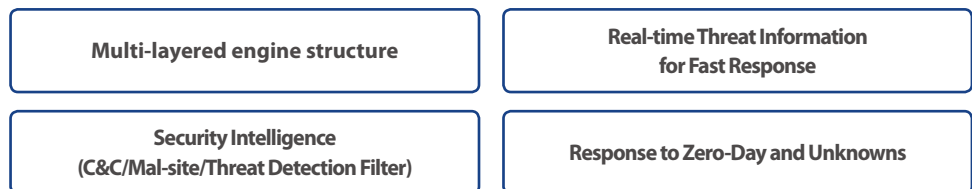

User Control

Responds to the security threats internally by mapping the user to the IP address, and with user ID to the user.


Exclusive Threat Detection and Response

TrusGuard inspects the inflow of contents to the network in real-time, protecting against the Zero-Day attacks and against unknowns.

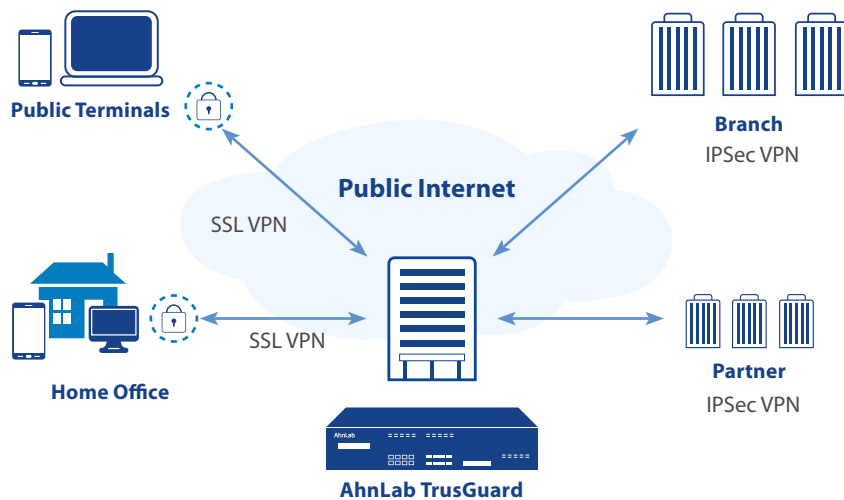| Multi-layered engine structure	Real-time Threat Information for Fast Response
Security Intelligence (C&C/Mal-site/Threat Detection Filter)	Response to Zero-Day and Unknowns

AhnLab TrusGuard

High-performance

The Advanced A-TEAM developed architecture to expedite the performance speed against the normal speed of packet processing. It is built with multi-core optimization and software acceleration technology.

Software Acceleration Technology — **High-Density Multi-Core** — **Multi-core Optimization**

< **Advanced A-TEAM Architecture** >
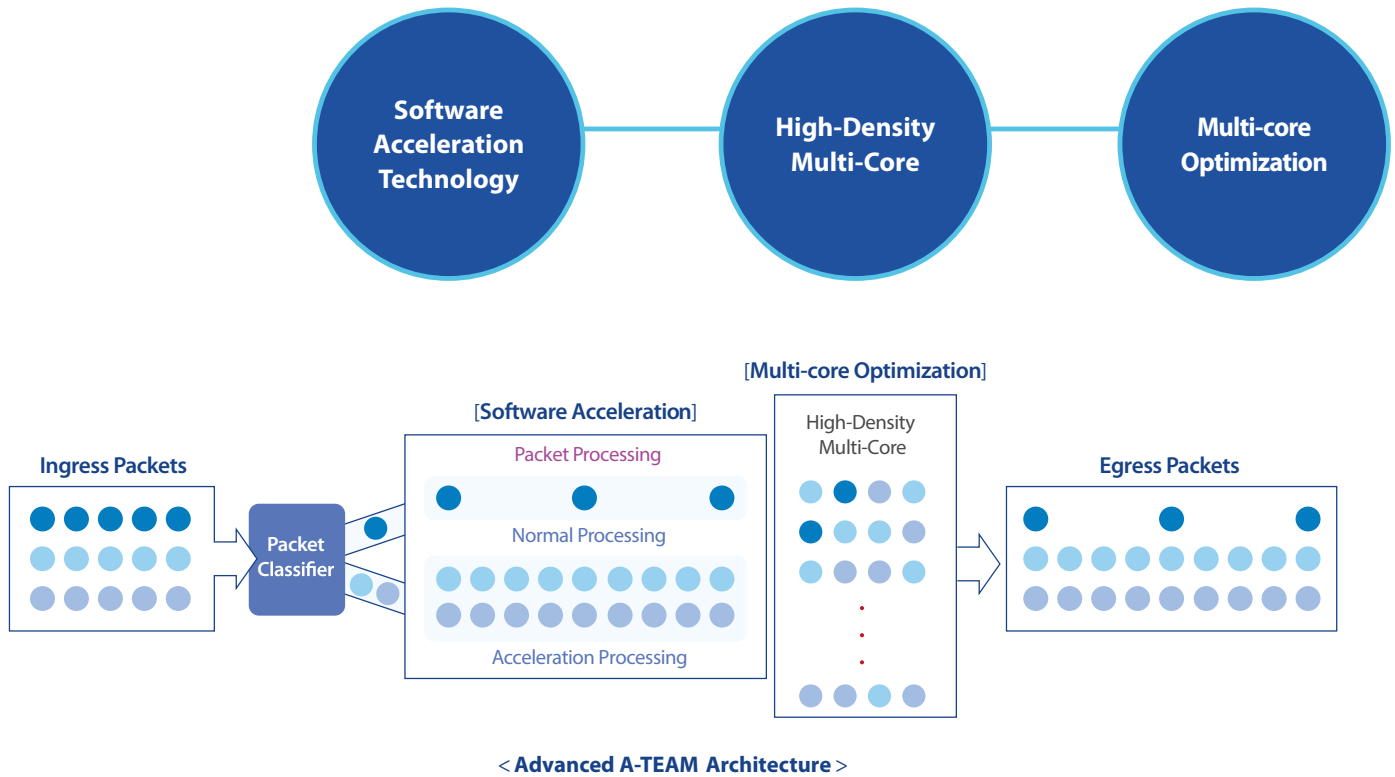
VPN (Virtual Private Network)

Anywhere, anytime the TrusGuard provides safe connection with IPSec/SSL VPN, preventing the expansion of malicious codes in the VPN tunnel with IPS and Application Control.

Public Terminals

Branch
IPSec VPN

Public Internet

SSL VPN

Home Office

SSL VPN

Partner
IPSec VPN

AhnLab TrusGuard

Stability	Security

✓ **Simultaneously Suppport IPSec/SSL VPN**
✓ **Mobile SSL VPN**
✓ **Strong Central Orotection on HQ/Branches**
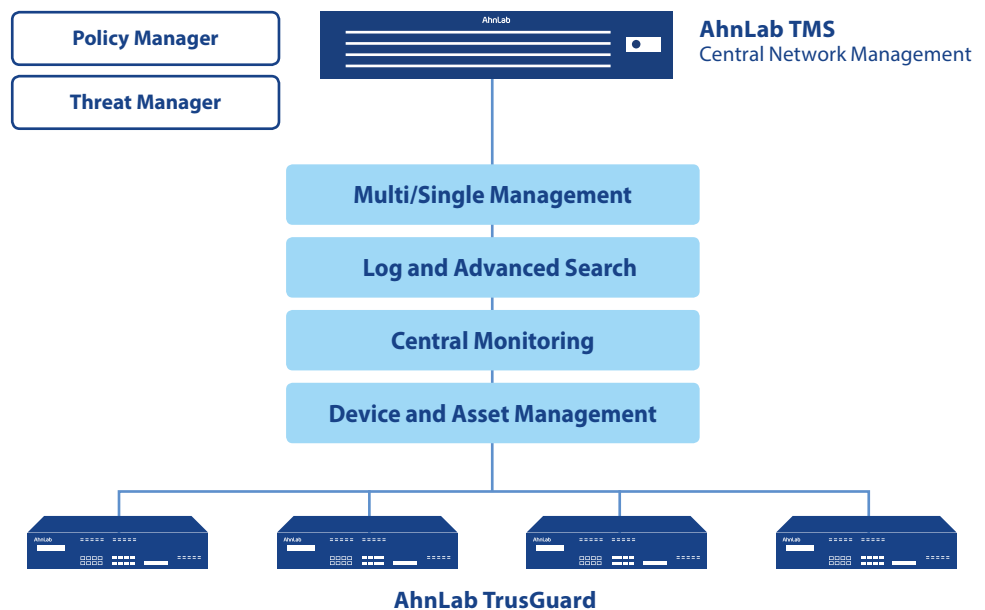
Security Intelligence

AhnLab has the best and largest threat response organization and infrastructure, providing real-time monitoring and response on ever-evolving threats. TrusGuard's exclusive C&C blacklist, Mal URL DB, reputation DB and vulnerabilities prove that it is the best optimized security solution for corporates.

With the central manager TSM, more effective and intuitive monitoring and convenience on control are provided with simple policy settings and total monitoring.

ACCESS
AhnLab Cloud Computing E-Security System

| NW Threats | Virus | Mal URL | Vulnerabilities |

ASEC
Security Response Center

Monitor/Response

CERT

TrusGuard Signature

Anti-Malware Signature

www.xxxxxx.com
Malicious URL DB

Security Infrastructure

File Reputation DB

C&C Blacklist DB

✓ **Latest DB through real-time update**

AhnLab TrusGuard
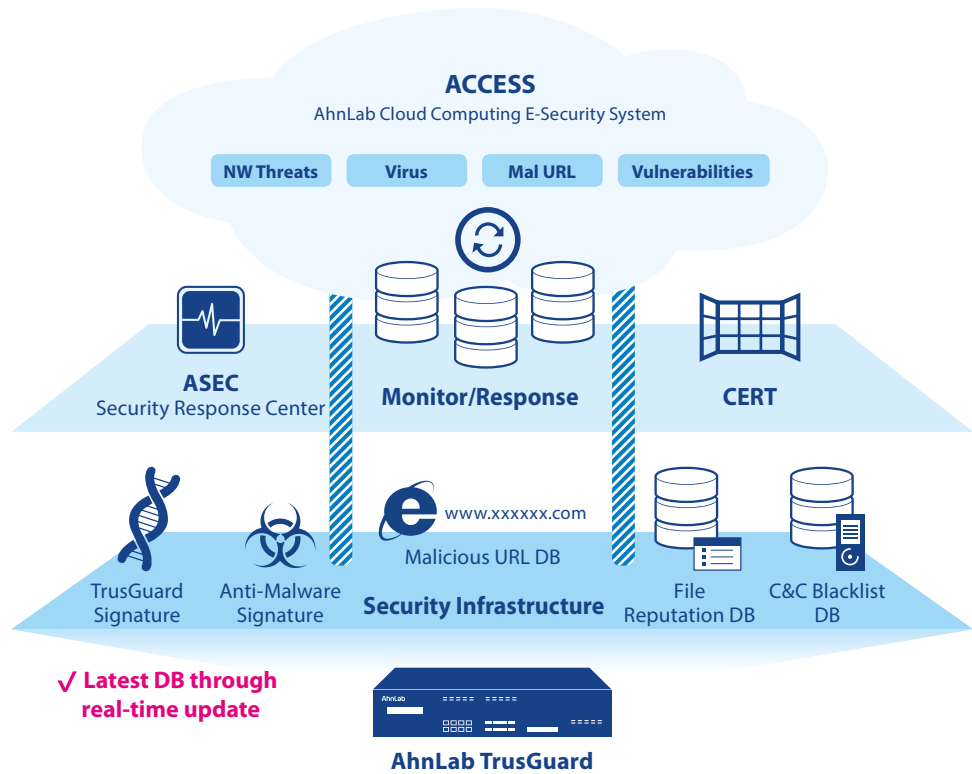
Strong Central Management

With the central manager TMS, intuitive monitoring and convenience on device controls are provided with simple policy settings and maximized user-friendliness.
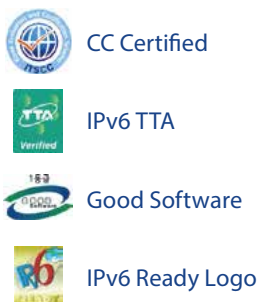

Policy Manager

Threat Manager

AhnLab TMS
Central Network Management

Multi/Single Management

Log and Advanced Search

Central Monitoring

Device and Asset Management

AhnLab TrusGuard

Main Features

Network	Firewall	IPSec VPN
Route/Bridge Mode	Stateful Inspection	Hub&Spoke/Star/Mesh
Static/Policy based Routing	HA (A-A/A-S without L4)	Various Encryption and Hash Algorithm
Dynamic (RIP/OSPF/BGP)	Policy/Sessions Synch	Center VPN Dual (A-A/A-S)
Multi-cast Routing (PIM-SM/ IGMP)	QoS (Min/Max)	Multi-line Load Balancing
Port Aggregation/ VLAN	Blacklist Filtering	DPD/PFS/Replay Defense
DHCP Server/Client/Relay	Exceptions (Whitelist)	**SSL VPN**
SNMP	Duplicate Object/Policy Filtering	Gateway-to-Client
IPv4 & IPv6 Dual Stack	Policy Expiration Check	2 Factor Authentication (ID/PW + Cert)
IPv6 /IPv6 Transition	Various NAT (Static/Dynamic/Policy based NAT)	Strong User Control
VoIP (H.323/SIP)	Auth Server User Authentication (LDAP etc.)	Endpoint Interoperation (PC Protection before and after)
IPS	Proxy Control	Mobile SSL VPN (Android & iOS)
Pre-defined Signatures (6000)	Session Control by Policies	Client for Embedded
Daily Signature Update	IP-Mac /IPv6 Filtering	**Anti-Spam**
Zero-day Defense(ACCESS/MAPP)	User-based Policies and Management	Exclusive Anti-Spam Engine
Signature/Anomaly based	Virtual System	RBL/User-defined Filtering
(Web/OS/Network/Application)	Log-based Policy/Object Creation	Spam Quarantine
(Worm/Bot/Trojan/Downloader)	**C&C Detect/Block**	**Anti-APT**
Zone-based Policies	Cloud-based C&C Detect & Block	Interoperate with AhnLab MDS
Application Control	Unknown Suspicious File/PUP Detect	Suspicious File Analysis
Global / Local Application Detect/Block	**Anti-DDoS**	Suspicious File Analysis
Application Detail Control	UDP/ICMP/TCP Flooding	**Data Leak Prevention**
Application Help	Spoofed TCP Attack	Prevent Internal Information Loss
NAC	HTTP Vulnerabilities	Block Content, Attachments, Exts.
Anti-Virus(V3) Interoperation	CC Attack	**Monitoring/Log**
Desktop Control Agent	**Website Filtering**	Internal HDD/Log
Infected PC Detect/Control	Korea Communications Standards Commission DB	Widget-based Dashboard/Relation Analysis
SSL Inspection	AhnLab Anti-malsite DB	Traffic Unified Log/Custom Report
Encrypted Traffic Inspection	Global Categorized URL DB	**Manageability**
Geo-Location Block	**Anti-Virus**	Multi-layer Admin Privilege
Country and Continent Block	AhnLab AV Engine (V3)	Web-based HTTPS
	AhnLab Signature Team	
	Attach/Compressed Files	
	Anti-Spam	
	Stream-based Detection	

Certificates & Patents

AhnLab TrusGuard technology has been listed as a Niche player in Gartner's Magic Quadrant for Enterprise Network Firewalls for five years in a row since 2014.

CC Certified

IPv6 TTA
Verified

Good Software

IPv6 Ready Logo

[**AhnLab Patents**]
January 2016

300
250
200
150
100
50
0

Domestic   Overseas   PCT

■ Registered
■ Patented
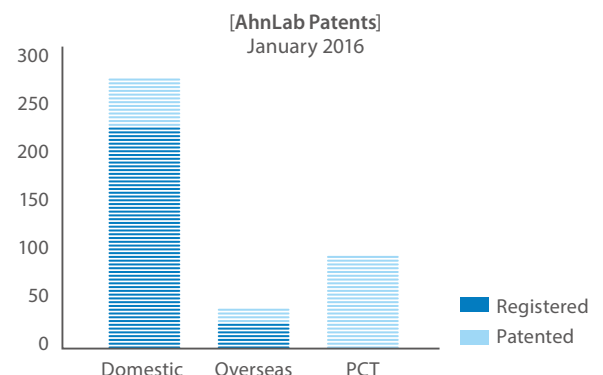
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Specifications

SMB/Branch Office

		TrusGuard 40B	TrusGuard 50B	TrusGuard 70B	TrusGuard 80B	TrusGuard 100B	TrusGuard 400B
CPU		2 Core	4 Core	4 Core	8 Core	4 Core	4 Core
RAM		2GB	8GB	8GB	8GB	8GB	8GB
CF		4GB	4GB	4GB	4GB	4GB	4GB
Storage		-	-	-	SATADOM 120 GB	HDD 1TB or SSD 240GB	HDD 1TB or SSD 240GB
NIC	1GC	8	8	8	8	8	8
	1GF	-	-	-	2	2	4
	10GF	-	-	-	-	-	-
Firewall Throughput (Max)		4G	6G	8G	8G	10G	12G
IPS Throughput (Max)		-	1.5G	2.5G	3G	3.5G	4G
VPN Throughput (Max)		1G	1.2G	1.4G	1.6G	1.6G	1.8G
VPN Tunnel		2,500	5,000	5,000	10,000	10,000	20,000
Concurrent Session		500,000	1,200,000	1,700,000	2,500,000	2,500,000	3,500,000

* TrusGuard 40B model supports only firewall/IPSec VPN.

Enterprise/Data Center and for Headquarter

		TrusGuard 500B	TrusGuard 1000A	TrusGuard 5000A	TrusGuard 10000A
CPU		4 Core	6 Core	20 Core	20 Core
RAM		16GB	16GB	32GB	64GB
CF		4GB	8GB(Cfast) / 240GB SSD	8GB(Cfast) / 240GB SSD	8GB(Cfast) / 240GB SSD
Storage		HDD 2TB or SSD 240GB	HDD 2TB or SSD 240GB	HDD 2TB or SSD 240GB	HDD 2TB or SSD 240GB
NIC	1GC	8	10 (34 MAX)	10 (34 MAX)	10 (50 MAX)
	1GF	8	8 (32 MAX)	8 (32 MAX)	8 (48 MAX)
	10GF	0 (4 MAX)	0 (12 MAX)	4 (16 MAX)	4 (24 MAX)
Firewall Throughput (Max)		16G	40G	80G	120G
IPS Throughput (Max)		5G	6G	10G	20G
VPN Throughput (Max)		2G	5G	10G	18G
VPN Tunnel		30,000	40,000	50,000	60,000
Concurrent Session		4,500,000	6,000,000	15,000,000	30,000,000

AhnLab

¡Contáctanos, juntos queremos hacer negocio contigo!

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