epati

antikor v2
Unified Cyber Security System

EPA-NGFW-G40 Series
Next Generation Firewall

**COMMON CRITERIA
EAL 4+**

TRtest

The Antikor Integrated Cyber Security System EPA-NGFW-G40 Series Next-Generation Firewalls (NGFW) is a product that ensures the security of Data Center Grade networks with advanced security functions. It incorporates a Policy/Section Structure, Virtual Wire, Online and Offline Updates, IPsec VTI and TS Mode, HTTP API, and many other advanced features. It comes with all these features enabled out of the box and does not require a license.

Security

The Antikor NGFW product ensures the security of your network with advanced security functions. It provides maximum security through an Independent Management Port (reserved processor, separate Control Plane and Data Plane) and an Independent Cluster Port.

Network

The Antikor NGFW product provides high-performance solutions with rich network features ranging from Layer 2 to Layer 7. It ensures full compatibility with your network through configuration flexibility. It strengthens your network with its security functions, enhancing overall network security.

Performance

While executing security functions, it operates your network with maximum performance. Thanks to its robust network stack, it easily and efficiently meets the security and network needs of your enterprise network.

Management

You can centrally manage the Antikor NGFW products deployed in your organization through Centralized Firewall Management (CFWM). It allows you to gather logs from multiple devices and perform centralized logging (CLM), enabling you to query and analyze the collected logs from a single point.

Product Specifications

Operating Modes
OSI Layer 2 Transparent
OSI Layer 3 Routing + Stealth Mode
Virtual Wire

Routing
IPv4 / IPv6 Static Routing
Policy Based Routing (PBR)
OSPF - Open Shortest Path First Protocol
BGP - Border Gateway Protocol
RIP / RIPng - Routing Information Protocol
PIM SM/SSM IGMP v2/v3 Multicast Routing
Routing Monitor

Network Interface Specifications
Loopback Interface, IEEE 802.1Q VLAN support
Link Aggregation:
   LACP, Failover, Load Balance, Round Robin
Bridging / STP / Ethernet Bypass
Virtual Extensible LAN (VXLAN)
NAT64, IPv6 6to4 Tunneling
Static ARP
PPP ve PPPoE Connection Interface
3G/4G/LTE Modem Support

Security Specifications
Zone Based Firewall
Application Security (AppID)
Honeypot Trapping
Traffic Rate Limiting
Multi-Policy, Section and Profile Support
Time Based Security Policy Management
IPS - Intrusion Detection and Prevention
SPI - Statefull Packet Inspection
DPI - Deep Packet Inspection
http / https Web Filtering (SNI / DPI)
DNS Query Filtering
Intf. Base Anti Spoof(Symmetrical and Asymmetrical)
MAC Based Quarantine
MAC - IP Matching Control
ARP Poisoning Protection
Flood Intrusion Prevention
Anti Botnet
Gateway Anti Virüs / Anti Malware ***
SSH Inspection
DoS Prevention - Connection Limiting
XFF Scan - Trusted Proxy Servers
Service Based Timeout Control

Email Security
Gateway Antispam ***
Anti Virus / Anti Malware ***
Email Rate Limiting
RBL, MX, SPF, DKIM, DMARC Check
Email Quarantine
Gray Listing, Phishing Check
Category and Rule Based Filtering

VPN - Virtual Private Network
SSL VPN
   Certificate Verification
   User Credentials Verification (+ 2FA)
   Authentication:
     BLAKE2*, RSA*, SHA*, MD*, SHAKE*
   Encryption:
     AES*, ARIA*, CAMELLIA*, SEED*, SM4*
PPTP / L2TP VPN
IPsec VPN (Both VTI and Legacy Mode)
Site to Site VPN
GRE Tunnelling

IPsec VPN
Encryption:
   AES, CAMELIA, NULL_ENC, SERPENT, TWOFISH
Authentication:
   MD5, SHA1, SHA256, SHA384, SHA512, AES
WildCard ID Support
NAT Traversal Support
PKI - Public Key Infrastructure Support
PSK - Pre Shared Key Support

Services
Live Dashboard
Automated Update System
Offline Update
Automatic Configuration Backup
DHCPv4/v6 Server, Relay and Monitor
Authenticated http/https Proxy
Antikor® Shared Management-Virtual System
QoS - Effective Bandwidth Management
Time and Quota Adjustable Hotspot(Captive)
Bandwidth Monitor
Antikor® Registry Service
Antikor® Announcement Service
NetFlow Export Service
RADIUS Server and Proxy
Domain Based http/https Forwarding
https SSL Offload Service
SNMP v2/v3 Service
RRD Service
   Number of Active Users and Bandwidth
http/https Caching
Domain Based Bandwidth Limiting
Log Timestamping
TUBITAK Kamu SM - Timestamp Integration
Syslog (TCP/UDP/TLS) - supported formats;
   RAW, CEF, EWMM, GELF, JSON, WELF, CIM
Black Hole Service
Campus Information Service
LLDP Service
GEO-IP Service
Antikor Central Management Integration and
Antikor Center Logging Integration

System Performance — G40A / G40B

Feature	G40A / G40B
NGFW Throughput (IMIX)	40 Gbps
IPS Throughput (IMIX) ***	40 Gbps
Firewall Throughput	160 Gbps
Number of Concurrent Sessions (Million)	30M / 60M
IPsec VPN Throughput (Total)	20 Gbps
SSL VPN Throughput (Total)	8 Gbps

Licensing

Feature	Value
Out of Band Cluster(HA) Support	Active-Passive
Number of Addressable CPU Threads	64
Number of IPsec VPN Tunnels	10240
Number of SSL VPN Users	7.680
Number of WAN / LAN / DMZ Interfaces	Unlimited

Management Interface Features
HTML5 Responsive Web Interface
   SSL Certificate based authentication
   2FA - Two-Factor Authentication
   Customizing the Service Port
Out of Band Management Plane
   Resource Reservation
   SSH Console
Physical Console (Monitor, Keyboard)
Serial Console (If exists on hardware)
Incident Notification Service
   SMS, Email, Brower Notification

Authentication Methods
Mernis
SMS
Local User
HTTP (API)
LDAP
RADIUS
POP3 / IMAP
SSO: Negotiate Kerberos - Active Directory
TACACS +

Product Certifications
Common Criteria EAL4 +
TRtest Product Conformity Certificate
100% Turkish Product

Minimum Requirements
Min 32 Core / 64 Thread and later Processor
Min 256 GB Ram
Min 960GB NVMe Disk
MultiQueue Ethernet Card

* Performance tests are performed with the following hardware:
  - Intel Xeon 64 core 3.Gen. Processor
  - Dual Channel 256 GB DDR4 3200 MHz ECC RAM
  - Intel XL710 MultiQueue Ethernet Card

** All performance values may vary depending on environmental
   condiitions, system configuration and equipment.

*** These features require a minimum of 8 GB or more of memory.

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