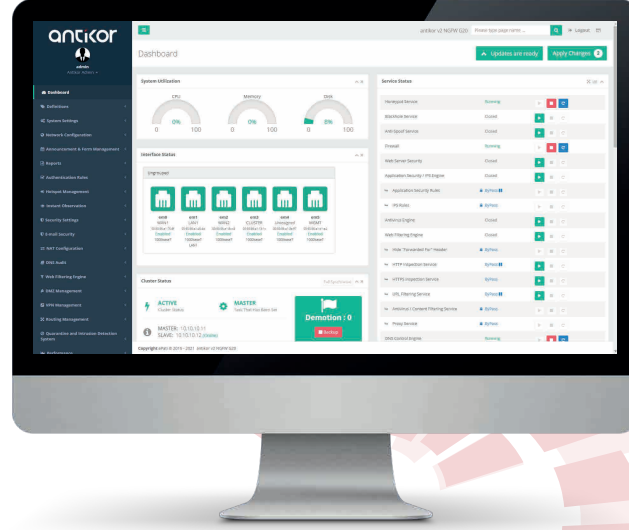


antikor^{v2}

Unified Cyber Security System

EPA-NGFW-G18 Series Next Generation Firewall



COMMON CRITERIA
EAL 4+



TRtest

Antikor v2 Unified Cyber Security System EPA-NGFW-G18 Series Next Generation Firewall (NGFW) is a Turkish national product that ensures safety of Data Center Grade networks with enhanced security functions. It provides high performance cyber security with flexible configuration, live dashboard and advanced security capabilities.

Security



Antikor® v2 provides a safe and secure network with its advanced security functions. It contains defining application based policies and QoS with its next generation security functions. It detects and blocks the attacks with honeypot trap at the screening stage before it is realized.

Network



Provides high performance solutions with enhanced network features from Layer2 to Layer 7. %100 complies with your network by flexibility of configuration. Securely consolidates your network with security functions.

Performance



Operates your network with maximum performance while executing security functions. Provides enterprise networks security and network requirements easily and highly efficiently by its powerful network stack.

Management



Menu and network based authorization through single interface even for all routed external locations provided by Shared Management Module of Antikor®.





Product Specifications

Operating Modes

- OSI Layer 2 Transparent
- OSI Layer 3 Routing

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
- 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
- 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 Virus / 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
- Site to Site VPN
- GRE Tunneling

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
- Syslog - supported formats;
 - RAW, CEF, EWMM, GELF, JSON, WELF, CIM
- Black Hole Service
- Campus Information Service
- LLDP Service
- GEO-IP Service
- Antikor Central Management Integration

System Performance

NGFW Throughput	18 Gbps
IPS Throughput	20 Gbps
Antivirus Throughput	12 Gbps
Firewall Throughput	72 Gbps
Number of Concurrent Sessions	36 Million
IPsec VPN Throughput (Total)	16 Gbps
SSL VPN Throughput (Total)	7 Gbps

Licensing

Out of Band Cluster(HA) Support	Active-Passive
Number of Addressable CPU Threads	64
Number of IPsec VPN Tunnels	256
Number of SSL VPN Users	4.500
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
- Management Plane
 - Resource Reservation
- SSH Console
- Physical Console
- 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 2 pcs 16 Core / 32 Thread Intel Xeon v4 and later Processor
- Min 128 GB DDR4 2400 MHz RAM
- 2 TB Solid State Disk
- Intel MultiQueue Server Ethernet Card

* Performance tests are performed with the following hardware:

- Intel Xeon D-2181IT @2.20 GHz Processor
- Dual Channel 128 GB DDR4 2666MHz ECC RAM
- Intel X722 MultiQueue Ethernet Card

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

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