epati

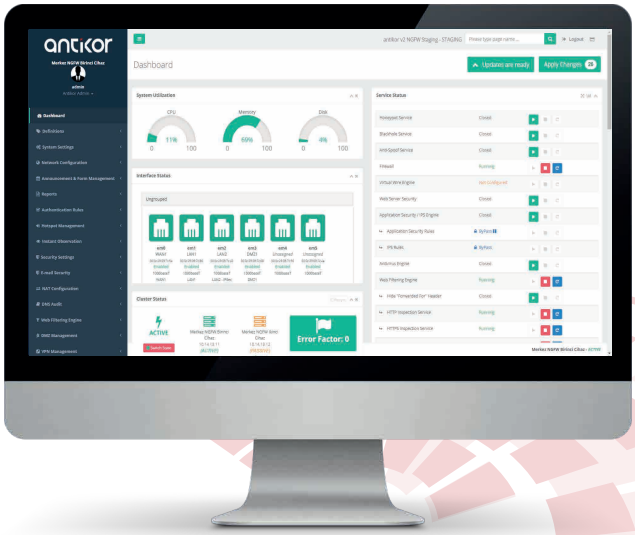
antikor v2

Unified Cyber Security System

EPA-NGFW-G1 Series
Next Generation Firewall

COMMON CRITERIA EAL 4+

TRtest



The Antikor Integrated Cyber Security System EPA-NGFW-G1 Series Next-Generation Firewalls (NGFW) is a product that ensures the security of Middle Size Enterprise 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.

ePati Cyber Security Technologies Inc.
Mersin Universitesi Ciftlikkoy Kampusu
Teknopark Idari Binasi Kat: 4 No: 411
Zip Code: 33343 Yenisehir / MERSIN / TURKIYE

www.epati.com.tr
info@epati.com.tr
+90 324 361 02 33
+90 324 361 02 39

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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	G1A / G1B
NGFW Throughput (IMIX)	1 Gbps
IPS Throughput (IMIX) ***	1,3 Gbps
Firewall Throughput	4 Gbps
Number of Concurrent Sessions (Million)	1M / 2M
IPsec VPN Throughput (Total)	0,8 Gbps
SSL VPN Throughput (Total)	0,4 Gbps
Licensing	
Out of Band Cluster(HA) Support	Active-Passive
Number of Addressable CPU Threads	8
Number of IPsec VPN Tunnels	320
Number of SSL VPN Users	512
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 8 Core/16 Thread and later Processor
- Min 16 GB Ram
- Min 480 GB Solid State Disk
- MultiQueue Ethernet Card

* Performance tests are performed with the following hardware:
- Intel Xeon D-2146NT @2.30 GHz Processor
- Dual Channel 16 GB DDR4 2666MHz ECC RAM
- Intel X722 MultiQueue Ethernet Card

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

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

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