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antikor v2
Unified Cyber Security System

EPA-VFW-K50 Series
Next Generation Firewall

COMMON CRITERIA EAL 4+

TRtest

The Antikor Integrated Cyber Security System EPA-VFW-K50 Series Next-Generation Firewalls (NGFW) is a product that ensures the security of Micro SME 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 — K50

	K50
NGFW Throughput (IMIX)	150 Mbps
IPS Throughput (IMIX) ***	200 Mbps
Firewall Throughput	800 Mbps
Number of Users	50
IPsec VPN Throughput (Total)	100 Mbps
SSL VPN Throughput (Total)	50 Mbps

Licensing

Out of Band Cluster(HA) Support	None
Number of Addressable CPU Threads	4
Number of IPsec VPN Tunnels	6
Number of SSL VPN Users	20
Number of WAN / LAN / DMZ Interfaces	1 / 2 / 1

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
VMware ESXi, Hyper-V, Proxmox Hypervisor **
At Least 4 Core AESNI Enabled CPU
Min 8 GB Reserved RAM
At Least 120 GB Storage (At Least 10000 IOPS with 4KB Blocks)
MultiQueue Ethernet Card

* All performance values may vary depending on environmental
    condiitions, system configuration and equipment.
** Ethernet Cards must be Configured as PassThrough,
    Hypervisor Virtual Ethernet Cards are not supported.
*** These features require a minimum of 8 GB or more of memory.