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antikor v2
Unified Cyber Security System

The Antikor Dual Layer (Layer2 & Layer3) SD-WAN EPA-TN-K250 Series is a Turkish national product that provides secure virtual switching at the Layer2 level in Large Enterprise networks with advanced network and security features. Thanks to its bonding feature, it transfers different types of internet (xDSL, 4.5G, metro, asymmetric fiber, etc.) to the center simultaneously. It can perform packet filtering (Layer2 Firewall) and QoS - Active Bandwidth Management in traffic.

Layer2 Communication over WAN

By extending our local network over our internet connections, we create a closed network by performing secure virtual switching (virtual switching) at the Layer2 level. It works as an uplink between switches. In short, the broadcast domains of both networks are merged.

Multiple VLAN transfer in WAN

In the Antikor Dual Layer SD-WAN solution, independent isolated Virtual Switches can be created, and they are transferred encrypted with the assigned VLANs on the other side. It allows for MAC-IP matching control.

Switching and Compatibility

Both Virtual Ports and Physical Ports have the IEEE 802.1Q VLAN feature (Untagged Port Assignment, Tagged Port Assignment and Hybrid Port Assignment). It has High Availability Cluster (Active-Passive Cluster) and Fail-over features.

Central Management and Logging

Through the Central Management System and monitoring, bulk settings can be obtained. It sends logs to all SIEM solutions in RAW, CEF, EWMM, GELF, JSON, WELF, CIM formats. It has LACP, LLDP, and Netflow Export services.

Product Specifications

Operating Modes

Traffic Capturing on:	
- OSI Layer 2 - Ethernet	
Tunneling over:	
- OSI Layer 3 - IPv4 & IPv6	
- OSI Layer 3 - Working Behind NAT	

Virtual Switch Features

Assigning Layer2 Tunnels as Virtual Ports

IPsec Encryption for Layer2 Tunnels

Physical Port Assignment

IEEE 802.1Q VLAN for both Virtual and Physical Ports:

- Untag Port Assignment

- Tagged Port Assignment

- Hybrid Port Assignment

VLAN Enabled MAC Table

IEEE 802.3ad Link Aggregation Control Protocol (LACP)

Spanning Tree Protocol

Rapid Spanning Tree Protocol

Link Layer Discovery Protocol

NetFlow Export Service

MAC Learning

Ethernet Interface Specifications

4094 IEEE 802.1Q VLANs for each port

IEEE 802.3ad LACP

Virtual Ethernet Interface

- Loopback

- VLAN subinterface

IPsec VPN

Encryption: DES, 3DES, AES, BLOWFISH, CAST128, CAMILIA

Authentication: MD5, SHA1, SHA256, SHA384, SHA512, 3DES, DES

WildCard ID Support

NAT Traversal Support

Assigning different IPsec Profiles for each Layer2 Tunnel

Management Interface Features

HTML5 Responsive Web Interface

- SSL Certificate based authentication

- Customizing the service port

Out of Band Management Plane

SSH Console

Physical Console (Monitor, Keyboard)

System Performance

MAC Table Size	256.000
Layer2 Throughput (Gbps)	9 Gbps
Firewall Throughput (Gbps)	8 Gbps
IPsec Throughput (Gbps)	6 Gbps

Licensing

Number of Layer2 Tunnels	Unlimited
Number of Phys. Ports can be Assigned to a Virtual Switch	Unlimited
Number of Tunnels can be Assigned to a Virtual Switch	Unlimited
Number of VLANs for Layer2 Tunnels	Unlimited
High Availability (HA) - Cluster Support	Active-Passive
Number of Addressable CPU Threads	16
Number of IPsec VPN Tunnels	28
Number of Virtual Switches	28
IEEE 802.3ad LACP Support on Virtual Switches	Yes
WAN Bonding	Yes
MTU Adaptation for WAN	Yes

Services

Live Dashboard

Automated Update System

WAN Bonding (Optional)

SNMP v2/v3 Service

Layer2 Packet Filtering on Tunneled Traffic (Optional)

QoS - Quality of Service on Tunneled Traffic (Optional)

Port Grouping

Syslog Service (RAW, CEF, EWMM, GELF, JSON, WELF, CIM)

MAC Learning

Authorization Management

Isolated Virtual Switching

NetFlow Export Service

Incident Notification Service

- SMS, Email, Browser Notification

Routing

IPv4 / IPv6 Static Routing

OSPF(Open Shortest Path First), BGP(Border Gateway) Protocols

Hardware Requirements

Min 16 Core and later Processor

Min 16 GB Ram

Min 240 GB Solid State Disc

Min 4 x 1G/10G Ethernet Card

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* Performance tests are performed with the following hardware:

- Intel Xeon D-2146INT Processor, Dual Channel 16 GB DDR4 2400MHz ECC RAM
- 2 x Intel x557 MultiQueue Ethernet Card

** Note: All performance values may vary depending on environmental condidtions, system configuration and equipment.