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EPA-TN-K96 Series Dual Layer SD-WAN and Bonding

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Internet Network	Add Surved 🗍 Add Physical Floor 🛛 😠 🖉	IP Camera Network	Red Turnet 🛛 Add Myrson Porc 😠 🤌
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The Antikor Dual Layer (Layer2 & Layer3) SD-WAN EPA-TN-K96 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.

Switching and Compatibility $c \in C$

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.

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.

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.

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Unified Cyber Security System

EPA-TN-K96 Series

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Product Specifications



Operating Modes	System Perforr
Traffic Capturing on:	MAC Table Size
- OSI Layer 2 - Ethernet	Layer2 Throughput
Tunneling over:	Firewall Throughput
- OSI Layer 3 - IPv4 & IPv6	IPsec Throughput (G
- OSI Layer 3 - Working Behind NAT	Licensing
Virtual Switch Features	Number of Layer2 Tu
Assigning Layer2 Tunnels as Virtual Ports	Number of Phys. Po
IPsec Encryption for Layer2 Tunnels	Number of Tunnels of
Physical Port Assignment	Number of VLANs fo
IEEE 802.1Q VLAN for both Virtual and Physical Ports:	High Availability (H/
- Untag Port Assignment	Number of Addressa
- Tagged Port Assignment	Number of IPsec VPI
- Hybrid Port Assignment	Number of Virtual S
VLAN Enabled MAC Table	IEEE 802.3ad LACP S
IEEE 802.3ad Link Aggregation Control Protocol (LACP)	WAN Bonding
Spanning Tree Protocol	MTU Adaptation for
Rapid Spanning Tree Protocol	Services
Link Layer Discovery Protocol	Live Dashboard
NetFlow Export Service	Automated Update
MAC Learning	WAN Bonding (Opti
Ethernet Interface Specifications	SNMP v2/v3 Service
4094 IEEE 802.1Q VLANs for each port	Layer2 Packet Filteri
IEEE 802.3ad LACP	QoS - Quality of Serv
Virtual Ethernet Interface	Port Grouping
- Loopback	Syslog Service (RAW
- VLAN subinterface	MAC Learning
IPsec VPN	Authorization Mana
Encryption: DES, 3DES, AES, BLOWFISH, CAST128, CAMILIA	Isolated Virtual Swit
Authentication: MD5, SHA1, SHA256, SHA384, SHA512, 3DES, DES	NetFlow Export Serv
WildCard ID Support	Incident Notification
NAT Traversal Support	- SMS, Email, Bro
Assigning different IPsec Profiles for each Layer2 Tunnel	Routing
Management Interface Features	IPv4 / IPv6 Static Ro
HTML5 Responsive Web Interface	OSPF(Open Shortest
- SSL Certificate based authentication	Hardware Requ
- Customizing the service port	Min 16 Core and late
Out of Band Management Plane	Min 16 GB Ram
SSH Console	Min 240 GB Solid St
Physical Console (Monitor, Keyboard)	Min 4 x 1G/10G Ethe

MAC Table Size	98.304
 Layer2 Throughput (Gbps)	7 Gbps
 Firewall Throughput (Gbps)	6 Gbps
 IPsec Throughput (Gbps)	4 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 Ac	tive-Passive
 Number of Addressable CPU Threads	16
Number of IPsec VPN Tunnels	22
Number of Virtual Switches	22
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) Prot	tocols
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	

* 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 condiditions, system configuration and equipment. eP-FR-79 Rev.02 / Release date: 01.04.2019 / Rev.date: 02.05.2021

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