

DATASHEET

Advanced Connectivity and Security License



The Advanced Connectivity & Security license (ACS) offers value added features to your OneOS6 software. It allows Service Providers to upsell these services on standard platforms as part of their Managed Services offer. They can also offer the standard OneOS6 products in enterprise RFPs with additional security, quality of service and / or probing requirements.

The ACS features are a subset of the SD-WAN features. For SD-WAN a separate datasheet is available.

Features & Benefits

Features	Benefits
Zone Based Firewall A firewall controls the access from the WAN to a customer's local network (LAN) and vice versa. It monitors and filters traffic. Compared to access lists, the Zone Based Firewall adds the concept of grouped interfaces (zones), it supports Application Layer Gateways (ALG) and it protects against various Denial of Service (DoS) attacks.	The Zone Based Firewall protects your router against undesired traffic. By filtering out such traffic, you experience a better service quality for your running applications. The protection against DoS attacks makes the router continue to forward traffic as expected even during directed attacks on the router.
Dynamic Virtual Tunnel Interfaces (DVTI) DVTIs are a scalable IPsec based solution for hub-and-spoke networks. The spokes make an IPsec connection to the hub, who may accept the connection based on one of its DVTI templates. As DVTIs are interfaces, they inherit all the features of other interfaces such as routing and complete QoS.	DVTIs greatly simplify VPN deployment for remote sites while keeping a great flexibility: remote sites may belong to various VRFs and they can have various QoS and bandwidth requirements. DVTIs support routing protocols with their peer tunnel endpoints. DVTIs are a highly scalable VPN solution.
Layer 2 Tunneling Protocol version 3 (L2TPv3) L2TPv3 is an enhanced version of the L2TPv2 protocol. It can transport Ethernet and other layer 2 variants over an IP network.	L2TPv3, in comparison with L2TPv2, provides a pseudo-wire service, scaled to fit carrier requirements.
Equal Cost Multi-Path Least Load First (ECMP LLF) ECMP uses multiple static routes with the same metric to distribute traffic over different WAN links to increase the bandwidth. The Least Load First algorithm distributes the traffic proportionally over the different links taking into account the available bandwidth on each link.	ECMP LLF optimizes the usage of the available WAN links for a maximum WAN speed. It is especially efficient with links with a different available uplink bandwidth, e.g. a 200 Mbps Fiber link and a VDSL link. ECMP LLF does not require any complex configuration tuning to load balance the traffic.
Host Based Weighted Fair Queuing Host-based WFQ uses separate queues per host (user) and provides to each host an equal share of the available bandwidth. A user is identified by its IP address.	In public places with WiFi coverage and places with many WiFi users such as hotels and schools, slow Internet access often disappoints people. Even when a high bandwidth is available, just a limited number of users who are watching videos may take most of the bandwidth, leaving others with a poor Internet experience. Host-based WFQ resolves this by providing a fair share of the bandwidth to each user.
TWAMP sender The Two-Way Active Measurement Protocol (RFC5357) is a standard method to measure round-trip delay and frame loss between 2 hosts. It has an improved accuracy compared to IP ping.	TWAMP sender verifies the quality of the network connectivity by measuring the round-trip delay and frame loss with minimal intrusion. It helps network operators to verify that Service Level Agreements (SLAs) are met.
LISP Locator/ID Separation Protocol (RFC9300-9306)	Separation of IP addresses into Endpoint Identifiers (EIDs) for end hosts and Routing Locators (RLOCs) for routers, facilitating scalable routing and mobility Support ingress Proxy (PITR) and egress Proxy (PETR)

ACS Features Availability

Features	Availability
Zone Based Firewall	Available since 6.0
Dynamic Virtual Tunnel Interfaces (DVTI)	Available since 6.2
Layer 2 Tunneling Protocol version 3 (L2TPv3)	Available since 6.1
ECMP Least Load First	Available since 6.3
Host based Weighted Fair Queuing	Available since 6.2
TWAMP sender	Available since 6.5
LISP	Available since 6.14

Supported Hardware and Sales Codes

Product type	Product	Sales Codes		License Name
		Subscription 1 year	Perpetual	
MSAR/EAD	ONE421, ONE422, ONE521, ONE526, ONE531, ONE541, ONE1526	52472	51613	ACS-CATEGORY-1
	ONE621, ONE641, ONE2501, ONE2520, 1647	52473	52026	ACS-CATEGORY-2
	ONE2515, ONE2560, ONE2561	52474	52027	ACS-CATEGORY-3
	ONE3540, ONE3550, ONE3551, ONE3555	52475	52028	ACS-CATEGORY-4
VNFs	ONEv600	52512	52097	ACS-50
	ONEe600	52513	51877	ACS-100
		52514	51878	ACS-200
		52515	51879	ACS-500
		52516	57880	ACS-1000
		52517	51881	ACS-2500
		52518	52098	ACS-5000
		52519	51882	ACS-10000

About Ekinops*

Ekinops is a European leader in optical networking and secured connectivity solutions for service providers, enterprises and public organizations around the world.

Ekinops designs, develops and manufactures high-performance solutions with cutting-edge software used to deliver high-bandwidth connectivity and managed services in over 70 countries worldwide.

Ekinops leads in the areas of:

- Advanced coherent optical networking for all metropolitan, regional, long-distance and datacenter interconnection applications
- Secured connectivity solutions for enterprises, from voice and data routing devices to Secure Access Service Edge (SASE) capabilities, including ZTNA (Zero-Trust Network Access), SD-WAN, and SSE.

Ekinops operates globally and is listed on Euronext Paris (FR0011466069 - EKI).