Integration with Today's and Next Generation OSS

Industry-standard MIBs, TR-069 client and Command Line Interface (CLI) enable a swift integration with incumbent management systems and a short learning curve for operational teams. The OneAccess software OneOS6 provides one of the most complete NETCONF implementations on the market. NETCONF enables a gain in service agility for service providers, as the programming of the provisioning flows is greatly accelerated by the transactional nature of NETCONF. It has therefore driven OSS vendors to support this protocol to deal with Network Function Virtualization (NFV). And OneOS6 is ready today for a swift migration to new management platforms.

The Ultra-Connected Branch-Office

The ONE521 answers to the needs of evolving broadband access, with higher accessibility to fiber connectivity and high-speed VDSL enabled thanks to vectoring and bonding. The packet forwarding engine delivers premium performance to address these new frontiers in WAN throughputs, even when combining multiple WAN links. The ONE521 supports hybrid access scenarios such as fiber offload over VDSL or LTE.

The ONE521 enables the branch-office to be ultra-connected: not only does it connect the WAN at high-speed, but it maximizes WAN availability and throughput thanks to intelligent algorithms that select on a application level the optimal WAN path.

The Right Platform for the Right Service Level

Service providers need to address different business market segments, the challenge being to balance diverse technical requirements and service price. Often the preferred solution is to select CPEs from different vendors. However the end result may end up being an increase in costs to the service provider, due to heavy product qualification and IT integration cycles. This unfortunately undermines the ultimate goal of gaining service agility and saving costs.

OneAccess product design leverages common hardware and software functions in series of products. Service Providers thus save time during product evaluation and the common, complete management stack enables quick adaptation of IT tools, whenever a change in service offering is required.

The modular design enables to fine-tune the service offering for price sensitive markets. The ONE521 can be customized with an array of WAN interface combinations (Fibre, VDSL, LTE) and optional WIFI. Its feature set can be used from a basic managed Internet service up to full enterprise needs.
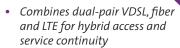
- *Combines dual-pair VDSL, fiber and LTE for hybrid access and service continuity*
- *Next-generation VDSL for superior performance and interoperability*
- *Optional state-of-the-art Wifi (dual-concurrent radio, 802.11ac)*
- *Industry-standard CLI and NETCONF*
- *Flexible licensing options designed for Managed Internet and VPN business services*

OneOS6

ABOUT us

OneAccess, an Ekinops company, is a leading provider of physical and virtual network functions enabling the delivery of Cloud and other managed services to SMB and enterprise customers around the world.

Our programmable and highly scalable solutions enable the fast, flexible and cost-effective deployment of new services for virtualization-enabled managed enterprise services. OneAccess offers a wide choice of physical and virtualized deployment options for layer 2 and layer 3 network functions.

As service providers embrace SDN and NFV deployment models, OneAccess' solutions enable them to deploy traditionally managed services today in the knowledge that they can seamlessly migrate to an open virtualized delivery model at a time of their choosing whilst avoiding vendor lock-in.

A global organization, with operations in 4 continents; Ekinops (EKI) - a public company traded on the Euronext Paris exchange - is headquartered in Lannion, France, and Ekinops Corp., a wholly-owned subsidiary, is incorporated in the USA. OneAccess is a wholly-owned subsidiary of Ekinops S.A.

ONEACCESS
Fast Network Virtualization

ONE500 Series

Mobile   Radio Signal Strength   Status   IP   WLAN   Aux   SFP   DSL   WPS

Technical Features

General
- Combo Giga Ethernet WAN port
- 4 port Gigabit Ethernet LAN switch
- Console port
- OneOS6 software

VDSL2 Interface (factory option)
- VDSL G.993.2 annexes A & B
- 1 pair with profiles 8, 12, 17 & 30
- 1 pair optionally with profile 35b
- 2 pair with profiles 8, 12 & 17
- G.998.4 (G.INP)
- G.993.5 (G.vectoring)
- EFM IEEE 802.3ah (10PASS-TS)
- ADSL G.992.1, G992.3, G992.5 - annexes A, B, J, L, M
- ATM (8 PVCs, OAM, encapsulations IP, IPoE, PPP, PPPoE)
- RJ-11 connector

Gigabit Ethernet WAN Interface
- 1 Fiber / Copper, configurable SFP/UTP
- SFP slot for fibre modules: 1000BASE-X, GPON ready
- UTP interface 10/100/1000 BASE-T with RJ-45 connector

LAN Interfaces
- 4 port switch 10/100/1000BASE-T auto-sense
- Automatic cross-over
- RJ-45 connectors

Wireless LAN (factory option)
- IEEE 802.11 b/g/n MIMO 3x3 (2.4 GHz)
- IEEE 802.11 a/n/ac MIMO 4x4 (5 GHz)
- Dual concurrent radio
- Internal antennas
- WMM QoS
- Encryption options WEP, WPA 1.2 (TKIP) and WPA 2.0 (802.11i, AES-CCMP)
- Authentication options WPA-PSK (pre-shared key) and 802.1x with a RADIUS server (PEAP, EAP-SIM, EAP-TLS and EAP-TTLS)

Wireless Radio Interface (factory option)
- Different variants available depending the region
- LTE with MIMO 2 x 2, Peak Rate Downlink/Uplink 150/50Mbps
- UMTS/HSPA+
- Edge/GPRS & GSM
- 2 SMA connectors for mobile antenna
- Dual SIM card

Console port
- RS232 – RJ-45 port

Performance and Sizing
- 200 Mbps recommended WAN speed
- 400 Mbps aggregated routing performance with services (IMIX 409)
- 120 Mbps aggregated IPsec performance (IMIX 418)

- 10 VRFs
- 10.000 BGP routes
- 20.000 NAT, Firewall, DPI ... sessions

IP Addressing & Routing
- IPv4 and IPv6
- NAT/NAPT: static/dynamic NAT, NAPT, selective NAT, ALGs
- DHCP client, server, relay
- DNS client, proxy
- Routing protocols: RIP v1/v2/ng, OSPF v2, BGP v4, BFD
- Multicast Routing: PIM-SMv1/v2, IGMP v2/v3, MLDv2
- Policy-Based Routing
- VRRP, VRF
- Load balancing

IP Quality of Service
- IP Classification and priority (DiffServ)
- Class-Based Queuing (CBQ), CB-WFQ on LAN/WAN interfaces
- Low Latency Queuing, fragmentation and interleaving
- Policing and remarking
- RED, WRED, ECN
- QoS measurement probe
- Deep Packet Inspection
- Netflow *
- IP flow control *

Security
- Standard and extended access lists
- Zone Based Firewall *
- Session monitoring and limiting
- User authentication locally, via RADIUS and TACACS+
- TACACS+ Authorization and Accounting

IP VPNs
- IPsec, GRE, IPIP, L2TPv2
- L2TPv3 *
- IPsec encryption: AES CBC
- IPsec ESP hashing: SHA-1 and MD5
- IKEv1 & IKEv2 with pre-shared keys & certificates
- IPsec tunnel and transport modes
- NAT traversal
- Easy VPN client
- Easy VPN server *

Bridging and VLANs
- Bridging & Integrated Routing and Bridging (IRB
- STP, RSTP, MSTP
- VLAN tagging and un-tagging
- Multiple VLAN IDs per port
- 802.1p priority tagging, ToS/CoS and CoS/ToS mapping

ONeSBC (Session Border Controller) *
- SIP trunking with demarcation – SIP Connect 1.1
- Hosted PBX solution
- SIP normalization
- SIP v2 over UDP/TCP/TLS and RTP/SRTP
- Codec negotiation with transparency: G.711a/u, G.729a, G.729ab, G.722, G.722.2, CES, H.263, H.264
- VQM (Voice Quality Monitoring)
- Up to 100 simultaneous centrex calls
- Up to 60 simultaneous trunking calls (no transcoding)

Technical Features

Management

- Industry standard Command Line Interface (CLI)
- Telnet, SSH, HTTP(S) server
- NETCONF server compatible V1.0/V1.1 *
- Web-based configurator for LAN and WLAN
- SNMP V1/V2C/V3
- Support of user privileges
- FTP/TFTP, SFTP, SCP upload/download configuration and binaries
- Traceroute, ping
- Global statistics screens (console, web-based)
- Event and trace buffering
- Embedded Event Manager
- Telnet, SSHv2 client
- Syslog client
- Flow capture and decoding

Dimensions and Environmental

- W x H x D: 273 x 57 x 150 mm (10.75 x 2.24 x 5.9 in)
- Weight: 0.75 kg (1.65 lb)
- Plastic housing; optional metal housing
- Operating temperature: 0-45°C
- Humidity: 5-90% non condensing

Power supply

- External adapter 12V – 2A or 3A, region dependent
- Voltage range: 110 - 230 Vac – 50/60 Hz
- Optional 24/48Vdc powering
- Power consumption: <36 W

* Subject to a license

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