

ONE 10

ADSL Router



The *ONE 10* is a secure ADSL router targeted to businesses customers, including branch offices and telecommuters. The router relies on the robust OneOS software, the OneAccess IP software designed for the delivery of enterprise-grade services. The product is available with different feature packs tailored to your needs. The *ONE 10* enables the customer to fully enjoy the benefits of OneOs on a single platform, consisting of an advanced firewall, VPN features and great manageability, that, in turn, enables a reduced network Total Cost of Ownership.

The *ONE 10* has an integrated ADSL modem (either ADSL over POTS or ADSL over ISDN, U-R2 compatible), a four-port Ethernet switch with automatic crossover and an RS-232 COM port.

By enabling security features of the *ONE 10*, Small and Medium-sized Businesses (SMB) can safely connect their network to the Internet and reach remote locations via high-speed encrypted tunnels. The *ONE 10* provides a solid corner-stone for service providers wanting to offer differentiated services. They include quality of service management and monitoring, which now have become key due to the adoption of the voice over IP technology. They also feature enterprise-class services such as firewall, DMZ, load balancing and support of customer's routing.

Managed Security

Companies today recognize the loss of productivity due to an uncontrolled protection of their network resources. Setting up the firewall not only blocks unauthorized data, but also protects LAN workstations from being flooded with malicious flows. To prevent such attacks, the Context Based Access Control realizes a stateful packet inspection to monitor the validity of protocol transactions. When enabling reflexive firewall rules, dynamic ports can be open only when the session is initiated from the LAN; in other words, dynamic ports are only open for legitimate requests. Information about the most recently denied flows can be logged or sent to a management system.

Many companies are willing to host their own servers (such as email, ftp, www servers). As they must be reached via a public IP address, they must not be located on the company's LAN, but rather on a dedicated network, called DMZ (DeMilitarized Zone), so that different security policies can be applied. The *ONE 10* allows to reserve switch ports for server(s). As a result, intrusions on servers having security breaches is restricted to the DMZ and the LAN remains protected.

Improved Total Cost of Ownership

Service providers can streamline their operations using the industry's standard Command Line Interface (CLI): the router integrates rapidly with automated tools for configuration management and the in-house expertise is leveraged.

The router also features a web-based interface that enables quick set-up: craft persons with reduced skills can configure their router without intervention from the service provider.

When enabling configuration discovery, the router starts up with a default configuration and then download its settings. As all routers the warehouse have the same default configuration, the number of operations required for shipping a router to customer premises is thus reduced, which dramatically streamlines logistics.

IP Quality of Service

The *ONE 10* is provided with best-in-class IP Quality of Service features. They include real-time processing of high priority, delay-sensitive applications and guaranteed bandwidth for selected flows. Flows can be processed in as many classes of service as needed. Performance can be further improved with many tuning possibilities, such as fragmentation & interleaving or congestion avoidance techniques. As flows are optimally shaped, the customer can take full advantage of his ADSL uplink bandwidth.

To measure the improvement brought by the IP QoS processing, embedded probe agents generate reports about network quality (transit delay, packet loss, jitter) for each class of service.

Technical

ONE 10 Specifications

Product Architecture

ADSL Uplink

- G.lite, G.DMT Annex A (ADSL over POTS)
- G.DMT Annex B (ADSL over ISDN, U-R2 compatible)
- RJ-11 Connector
- Synchronization and activity LEDs

Ethernet Switch

- Automatic MDI/MDI-X crossover
- 10/100 Mbps, half/full duplex with autosensing
- Link status and activity LEDs
- VLAN support

Console Port

- RS-232
- DB-9 female connector

IP Addressing & Routing

- Network address translation: static/dynamic NAT
NAPT, selective NAT, twice NAT
- DHCP client, server, relay
- IP address helpers
- DNS proxy
- Routing protocol: RIP v1/v2, OSPF, BGP
- Policy-Based Routing
- VRRP
- Server load balancing
- Tunnel: IP Sec, GRE, IPIP

IP Quality of Service

- Class-Based Queuing (CBQ), CB-WFQ on LAN/WAN interfaces
- Low Latency Queuing
- Policing and remarking
- RED, WRED, ECN

ATM

- Up to 8 PVC
- OAM-F5 (send/receive): loopback, continuity check (segment and end to end)
- Shaping: UBR, VBR-NRT, VBR-RT, CBR
- Encapsulation (LLC or Mux): IpoE (bridge), PPPoA, PPPoE

PPP

- PPPoA, PPPoEoA
- MLPPP fragmentation and interleaving
- PAP/CHAP authentication

Security

Firewall

- Standard and extended access lists
- Stateful packet inspection
- Session monitoring and limiting
- Configurable timers per port and application
- All firewall log messages can be buffered, viewed or sent to a syslog server

IP Security

- Software encryption: DES, 3DES, AES
- Tunnel mode with AH and ESP
- UDP-based encapsulation for NAT traversal
- IKE with pre-shared secret, symmetrical or client-server mode
- Perfect Forward Secrecy
- DNS server update protocol: DynDNS

Management

- Industry standard Command Line Interface (CLI)
- Web-based configuration wizard
- SNMP V1/2C/3
- Configuration of user privileges
- Upload/download of configuration/binaries via FTP/TFTP
- QoS measurement probe
- Traceroute, ping, extended ping
- User authentication via RADIUS or TACACS+
- Global statistics screens (console, web-based)
- Event and trace buffering
- Syslog client
- Flow capture and decoding

Technology

- WxHxD: 21,4 x 2,5 x 12,6 cm
- Weight: 0,7 kg
- Internal Power supply: 100 to 240V AC

Standards

- Compliant with CE Mark regarding safety, electromagnetic compatibility, immunity and interfaces.
- US: FCC part 15 class B



ONE 10 EA

(*) Please check with OneAccess marketing for availability.

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