ONE270

Multi-Service Access Router

- **Integrated voice and data managed services**
- **For 20 to 80 desk offices; 16 voice channels**
- **Legacy and IP Voice**
- **Gigabit Ethernet Switching**
- **Ethernet, Fibre, DSL, ISDN PRI**
- **Industry leading price performance**
- **Simple deployment, provisioning and management**
- **Industry standard CLI**

Multi-Service
Access Routers

ABOUT OneAccess

OneAccess designs and develops a range of world-class multi-service routers for over 140 global service provider customers including four of the top five operators in Europe. This makes OneAccess the number two branch office router solution provider in the world by volume.

With an international support network operating from offices in North America, Europe and Asia, OneAccess is able to work closely and cooperatively with all its clients throughout the development and roll-out phases for new services.

Managed Voice and Data Services for the Mid-Market

The OneAccess ONE270 Multi-Service Access Router integrates legacy voice, IP voice and enterprise-class data services over Ethernet, fibre, DSL and ISDN access networks. With Dial Tone Continuity®, sophisticated IP Quality of Service and flexible IP VPN as standard, the ONE270 is a high performance, one box solution for unified voice and data services. For fixed line operators, mobile operators and ISPs, it offers a highly cost effective and customisable gateway to new managed service revenues from the mid market.

The ONE270 is scaled to provide 20 to 80 desks with legacy or IP voice, sophisticated data services, embedded security and high availability. Software options including SBC Nano® and Integrated Business Communications® (IBC) add richness, assurance and simplicity to new service introductions. It is a perfect fit for operators targeting small and medium sized enterprises, or branch offices of large enterprises, with a portfolio of managed and value-added services up to and including hosted or cloud-based telephony.

Voice Service Agility

The One270 offers service providers the ultimate in voice service agility: supporting, adding value and managing every service combination on the migration from TDM voice, through IP voice, to hosted or cloud based services. For example, TDM voice can be encoded to H.323 or SIP standards; Integrated Business Communications (IBC) turns the ONE270 into a fully fledged IP PBX with embedded Unified Communications; and the unique SBC Nano capability provides trouble free signalling between the customers' IP PBX and the provider's network, or alternatively allows a broad range of SIP phones to connect directly and seamlessly to core networks.

Assuring the migration to managed and hosted voice services is Dial Tone Continuity. This sophisticated feature automatically leverages IBC, and concurrent routing over Ethernet, fibre, DSL and ISDN networks, to maintain high availability of telephony services in the event of primary network failures.

Traditional PBXs connect via an ISDN PRI, or 8 ISDN BRI. A second PRI can be specified – network side - for network service and number migration, or network failover. Provisioning is simple, and supported by an industry standard CLI.

Enterprise-Class Data Services

IP PBXs, server rooms and local area networks are connected to each other and the wide area network, via the built in 4 port Gigabit Ethernet (GigE) switch. The ONE270 can be optionally specified with WiFi, supporting 802.11b and g, with n as a future option.
The powerful ONE270 platform supports symmetrical, high speed Layer 3 switching at next generation broadband throughputs, with sophisticated QoS. In-built IP VPN capabilities enable the seamless networking of enterprise branch offices.

Access Network Flexibility and Migration

SHDSL (Ethernet First Mile - EFM) and fibre (Ethernet) network interfaces are combined on one device. The SHDSL interface supports ATM and EFM protocols at speeds of up to 22Mbps over bonded pairs. The Fibre Interface supports 100Mbps Ethernet.

ONE270
Multi-service Access

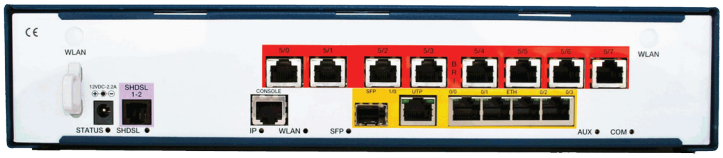
Reducing Total Cost of Ownership

As well as opening the door to new revenue opportunities, the ONE270 helps achieve long term cost savings. As a service provider, the opportunity to replace multiple CPE with a single, flexible unit, means reduced capital costs and simpler logistics and operations.

In addition, a suite of provisioning tools makes roll out simpler, less prone to error and more cost effective. For instance, auto discovery options simplify initial set-ups. Tried and tested configurations can then be 'cloned' to new installations from the network operations centre (NOC). The industry standard CLI removes the need for technician training.

A set of embedded tools and service level indicators – for example, voice quality audit functions including jitter monitoring and mean opinion score (MOS) statistics - make it simple to manage and assure the customer experience remotely, virtually removing the need for maintenance truck rolls.

Technical Features



General
- Single or dual WAN uplinks
- 4 port Gigabit Ethernet LAN switch
- 16 voice channels
- Optional voice features sets: IBC and SBC nano
- Optional Wireless LAN

Fast Ethernet WAN Interface
- Fibre, Copper, configurable SFP/UTP
- 1 SFP slot for fibre modules: 100BASE-T, 100BASE-FX, 100BASE-LX20/50, 100BASE-BX10/20/40
- UTP interface 10/100BASE-T with RJ-45 connector

SHDSL interface (factory option)
- G.SHDSLbis ITU-T G.991.2 - 2 or 4 line pairs
- ATM, EFM and ATM/EFM auto detect
- Bonding based on EFM, SHDSL or ATM IMA
- RJ-11 connectors (2 RJ-11 for 4 pairs)

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

Wireless LAN (factory option)
- Dual mode IEEE 802.11b/g/n
- Two 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)

Voice Interfaces (factory options)
- 16 voice channels
- 8 x BRI ports; CTR3 / Euro-ISDN / Euro-numeris compliant, So and To, NT or TE mode; Point-to-point & multipoint; Power source type 1 (2W/port); RJ-45 connectors
- 1 x E1/T1 PRI port: G703/G704

Console port
- RS232 – RJ45 port

Performance
- LAN to LAN: 170,000 pps
- LAN to WAN with QoS/ACL/NAT: 70,000pps

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Technical Features

IP Addressing & Routing
- NAT/NAPT: static/dynamic NAT, NAPT, selective NAT, twice NAT, Application pass-through
- DHCP client, server, relay. IP helper addresses
- DNS proxy. DNS server update protocol: DynDNS
- Routing protocols: RIP v1/v2, OSPF v2, BGP v4
- Multicast Routing: PIM-SM and IGMP v2/v3
- Policy-Based Routing
- VRRP
- Server 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

Security
- Firewall with stateful packet inspection
- Standard and extended access lists
- Session monitoring and limiting
- Configurable timers per port and application
- All firewall log messages can be buffered, viewed or sent to a syslog server
- Zone Based Firewall with ASIP*

IP VPNs
- IPsec, GRE, IPIP, L2TP
- IPsec encryption: AES, DES, 3DES
- IPsec tunnel and transport mode IKE and PKI, AH and ESP with SHA1 and MD-5 hashing
- UDP-based encapsulation for NAT traversal
- IKE with pre-shared secret, symmetrical or client-server mode
- Perfect Forward Secrecy
- easy VPN and GET VPN with ASIP*

Bridging and VLANs
- Bridging & Integrated Routing and Bridging (IRB)
- VLAN tagging and un-tagging
- Multiple VLAN IDs per port
- 802.1p priority tagging, TOS/COS and COS/TOS mapping

Voice
- Line Hunting, Insertion & suppression of digits, Local port switching, Selection of voice processing
- Echo cancellation: G.165/168 compliant, non-linear processing
- Voice compression: G.711 (a/µ law), G.726, G.729a, configurable packet length
- DTMF detection and generation
- Country specific tone generation and customisation
- Silence suppression and comfort noise generation
- Adaptive Jitter buffer
- MOS scoring evaluation
- SIP, MGCP, H.323 version 4
- Fax and Modem over IP
- SBC Nano*
- IBC Call Manager/IP-PBX features*

Management
- Industry standard Command Line Interface (CLI)
- Telnet, SSH, HTTPS
- Web-based configurator for LAN and WLAN
- SNMP V1/V2C/V3
- Support of user privileges
- FTP/TFTP upload/download configuration and binaries
- QoS measurement probe
- Traceroute, ping, extended ping
- User authentication via RADIUS or TACACS+
- RADIUS accounting
- Global statistics screens (console, web-based). Event and trace buffering
- Syslog client
- Flow capture and decoding
- TR-69

Power Supply
- 12V DC-3A configuration

Dimensions
- Desktop, wall mountable
- W x H x D: 333 x 67 x 218 mm; Weight: 2.7 kg

**Subject to a separate license*

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