Access Point® 300
IP Services Router



Setting new price/performance standards, the Access Point 300 is optimized for rapid deployment at enterprises' small and mid-sized branch offices. Only Lucent's Access Point platforms are purpose-built to support multi-access IP routing, secure IP VPNs, QoS management, firewall security, and policy management. A single-box solution that in many respects surpasses more costly multi-box offerings, the Access Point 300 gives you unique capabilities for capitalizing on IP services business opportunities.

Features

- Robust IP routing certified and deployed by leading Internet providers
- ICSA-certified IPSec VPN tunneling and encryption
- Integrated ICSA-certified firewall
- FIPS-certified hardware and software (available October 2002)
- Class-based queuing (CBQ) to assign, monitor, and manage bandwidth policies
- Up to 50 Mbps throughput for unencrypted data, 5 Mbps for encrypted data
- Choice of software feature packages — meet applications needs with a range of basic to advanced IP services capabilities
- Rich management services — choose from an intuitive command line interface (CLI), industry-standard SNMP manager, or graphical web management navigator

Benefits

- **Multiservice versatility —** single platform purpose-built to deliver diverse IP services
- **Incomparable value —** higher performance at very competitive prices
- **Easy, economical growth —** add services without adding infrastructure; readily migrate from basic to advanced capabilities
- **Highly scalable —** cost-effectively accommodate expanding user populations
- **Built-in security —** integrated ICSA-certified stateful and stateless packet filtering firewall; L2TP and IPSec support
- **Simplified provisioning and management —** integral SNMP and RADIUS support; centralized policy management with optional Access Point QVPN Builder® software

Applications

- IP access and routing
- IP VPNs — site-to-site/remote access
- Managed bandwidth/QoS with CBQ
- Mobile IP services

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Technical Specifications

1. Fixed Configurations

- AP 300-ST: 2 10/100 Ethernet (RJ-45), ISDN BRI S/T (RJ-45)
- AP 300-M-ST: 2 10/100 Ethernet (RJ-45), MSSI (V.35 or X.21), ISDN BRI S/T (RJ-45)
- AP 300-M-U: 2 10/100 Ethernet (RJ-45), MSSI (V.35 or X.21), ISDN BRI U (RJ-45)
- AP 300-2T1E1-ST: 2 10/100 Ethernet (RJ-45), 2 T1/E1 with integrated DSU's (RJ-45), ISDN BRI S/T (RJ-45)
- AP 300-2T1E1-U: 2 10/100 Ethernet (RJ-45), 2 T1/E1 with integrated DSU's (RJ-45), ISDN BRI U (RJ-45)
- AP 300-2M-ST: 2 10/100 Ethernet (RJ-45), 2 MSSI (V.35 or X.21), ISDN BRI S/T (RJ-45)

2. Performance

- IP forwarding rate (non-encrypted): 50 Mbps
- IP packet throughput (non-encrypted): 40 Kpps
- 3DES IP forwarding rate: 5 Mbps
- IPSec remote access tunnels: 500
- IPSec site-to-site tunnels: 150
- L2TP tunnels: 400

3. Routing Protocols Supported

IP, RIP, RIP-2, OSPF, BGP-4, IGMPv2, DVMRPv3, static and dynamic routing, policy forwarding

4. VPN Tunneling Protocols Supported

ICSA-certified IPSec, supporting site-to-site, dynamic site-to-site and dial-up VPN connections, , L2TP (LNS and LAC), IP-IP, GRE, Mobile IP FA/HA

5. WAN Protocols Supported

ISDN, Frame Relay, PPP, Multilink Frame Relay and PPP, ATM, PPPoE, SMDS

6. Firewall

- ICSA-certified packet filtering firewall with state-informed and stateless packet/port control
- Network Address Translation (NAT)
  - – Basic NAT
  - – Port translation NAT
  - – Load sharing NAT
- Denial of service protection

7. IPSec Encryption/Authentication

ICSA-certified IPSec ESP with DES/3DES encryption, MD5/SHA1 authentication, anti-replay protection, FIPS 140-1 Level 1 certified (available October, 2002).

8. IPSec Client

- Lucent IPSec R4.0/4.1 Client support
- Microsoft Windows® 2K L2TP/ IPSec Client

9. Key Management

IKE, PKI, X.509 digital certificates, certificate revocation lists (CRLs) via LDAP or HTTP

10. Quality of Service

Class-based queuing with classification and auto-classification by IP address, protocol, port number, domain name, TOS byte; DiffServ classification and marking; bandwidth borrowing; VLAN QoS based on 802.1 p/q; policy forwarding using source-based routing

11. Redundancy

- Virtual Routing Redundancy Protocol
- ISDN demand-based or dial-up backup support

12. User Authentication

PAP, CHAP, RADIUS, SecureID

13. Management

Command line interface via console, Telnet, or Secure Shell (SSH); Secure Copy (SCP); embedded browser interface; SNMPv2 and SNMPv3 support with standard and private MIBs; split horizon management for customer and network provider; Access Point QVPN Builder for centralized policy management of QoS, Firewall, VPN, and NAT features; 2 x RS232 console port

14. Embedded LAN Interfaces

All AP-300 configurations include 2 10/100 Base-T Ethernet (RJ-45) interfaces

15. Embedded WAN Interfaces

Varies by configuration; see fixed configuration information above

16. Memory

64 MB SDRAM

17. Power Requirements

- AC power input range: 100–240 VAC, auto selecting, 50/60 Hz nominal. 0.5 amps
- Consumption: 20 watts typical

18. Environmental Requirements

- Operating temperature: 0°– 40° C
- Storage temperature: -20°–65° C
- Relative humidity: 10–85% non-condensing operating, 5–95% non-condensing non-operating

19. Safety Certifications

- UL, cUL 1950, third edition; TUV/GS/EN60950; AS/NZS 3260 and TS001; IEC 950/CB Scheme; LVD Directive: 73/23/EEC

20. EMI/EMC

FCC Part 15 class A, ICES-003; EU-EMC Directive 89/336/EEC EN55022: 1997, EN55082-1: 1997, and ETS 300 386-1 (IEC61000-4-3, ENV50204, IEC61000-4-4, IEC61000-4-2, IEC61000-4-5, IEC61000-4-6, IEC61000-3-2, IEC61000-3-3, IEC61000-4-11); 24; AS/NZS 3548; CNS 13438

21. Homologation/Network Certifications

- US: FCC Part 68
- Canada: CS03
- EU: RTTE directive 1999/5/EC
- Japan: JATE
- Support is provided or pending for many other countries and interfaces.

22. Dimensions

11" W x 2.15" H x 7.2" D (28cm W x 5.5cm H x 18.3cm D), Optional 19" rack mounting shelf available (1.5U)

To learn more, please contact your Lucent Technologies Sales Representative or Lucent Business Partner. Or visit our web site at www.lucent.com.

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