Access Point® 600
IP Services Router



Purpose-built multiservices platform for mid-sized enterprise sites. Only Lucent offers high-speed IP routing, IP VPN, QoS, firewall security, and policy management in a cost-saving single-box solution.

Benefits

- Capitalize on industry-leading price/performance
- Implement advanced VPN, bandwidth management, mobile IP, and more
- Migrate from basic to advanced IP services without additional infrastructure investments
- Simplify IP services deployment, provisioning, and management
- Maximize security with built-in firewall, L2TP, IPSec support
- Choose software for your specific application requirements

Lucent Technologies
Bell Labs Innovations

One platform… multiple IP services

Unlike competitive products, the Access Point 600 combines multi-access routing, secure VPN, QoS management, firewall security, and policy management capabilities in a cost-saving all-in-one package. Optimized for rapid deployment at enterprises' small and medium-sized regional and branch offices, it readily integrates into existing network management systems and back-office services. And it enables smooth migration from basic to advanced IP services without additional infrastructure upgrades.

This high-performance IP platform lets you deliver a full set of business-quality services. Supported applications include: high-speed IP access and routing… IP VPNs… managed bandwidth/quality of service… Mobile IP… Web/application hosting… multi-dwelling unit (MDU)/multi-tenant unit (MTU) Internet access concentration… and metro-optical network edge routing.

The Access Point 600 offers you an ideal solution for capitalizing on managed IP services business opportunities. This modular, field-upgradeable system makes it easy to create premium service packages by deploying intelligent customer-premises devices.

Access Point platforms are the CPE component of Lucent's unique, end-to-end *Service Intelligent*™ Architecture, which lets you dynamically tailor IP services to end-users' changing needs.

Setting new price/performance standards

The Access Point 600 offers superior performance at a substantially lower purchase price than competitive routers. It delivers data forwarding rates of up to 220 Mbps and 3DES encrypted traffic forwarding rates of up to 90 Mbps. And it supports as many as 600 site-to-site or 3,500 simultaneously active remote access VPN tunnels.

With multiple services integrated in one platform, your installation and ownership costs are minimized. And you can take advantage of easy, economical migration from a single application all the way to an enterprise-wide multi-services deployment.

Robust multi-access routing

The Access Point 600 supports IP routing capabilities that have been certified and deployed by the industry's leading Internet providers:

- RIP and RIP-2
- OSPF
- BGP-4
- IGMPv2
- DVMRPv3
- IS-IS
- Policy forwarding
- Static and dynamic routing

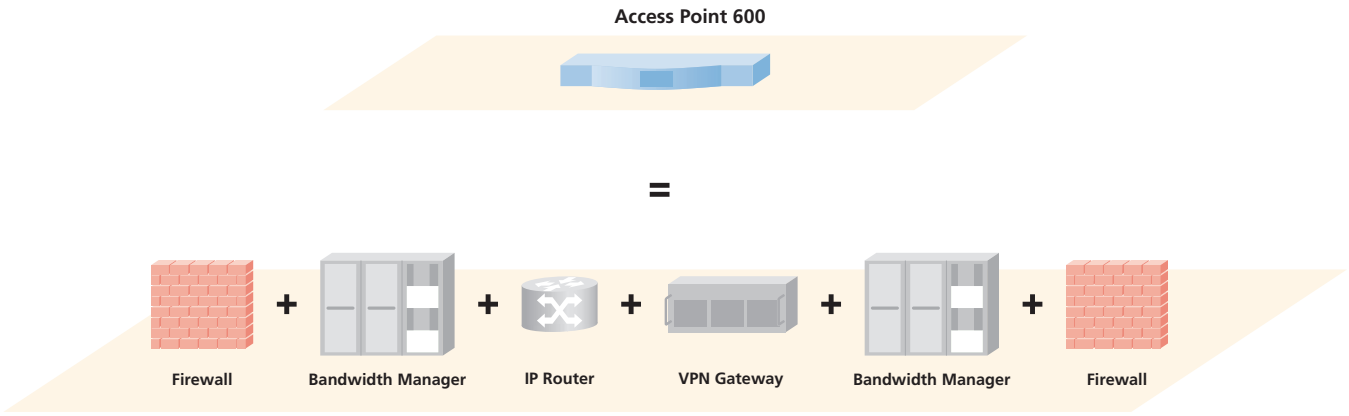
Because our BGP-4 implementation is interoperable with the most widely installed backbone routers, it provides reliable, multi-homed connections from an enterprise premises to a backbone IP network.

For high-availability environments, the Access Point 600 supports redundant access from the corporate LAN to a primary or back-up default gateway via the IETF-defined VRRP (Virtual Router Redundancy Protocol). Diverse value-added services and applications are enabled by additional IP features including load sharing, network address translation, and multicast.

State-of-the-art Mobile IP

Mobile workers enjoy the same suite of IP services available in their wireline environments. This is enabled through RFC2002-2006 standards-based Mobile IP Foreign Agent/Home Agent services, coupled with Access Point's superb WAN access routing.





Access Point platforms combine advanced IP routing, bandwidth management, IP VPN support, and firewall protection capabilities — plus rich management services — in one all-inclusive package.

Leadership QoS with CBQ

IP quality of service (QoS) is supported by class-based queuing (CBQ), the open bandwidth management technology defined by leading members of the Internet community. CBQ lets network administrators establish and enforce specific bandwidth policies while gaining the visibility to actively manage cost and QoS. This heightened control ensures that the required bandwidth is delivered to the right users whenever and wherever they need it.

End-to-end QoS is further enabled by support for IETF-defined differentiated services (DiffServ) and Type of Service (ToS) marking. Combining CBQ and DiffServ, you can prioritize user traffic to meet internal business needs, then map that traffic into the service levels offered by the IP/Internet backbone. QoS can also be extended to Virtual LANs (VLANs) using the 802.1p/q standard.

Advanced security safeguards

The Access Point 600 is ideally suited to operate as a fully integrated VPN router or a QoS-enabled VPN gateway co-existing with previously installed routers. Its IPSec tunneling and encryption is certified by ICSA, and it supports both 56-bit DES and 168-bit 3DES encryption. Session keys are managed dynamically with IKE. User-level authentication is supported via local passwords, Remote Authentication Dial-In User Service (RADIUS), SecureID, or X.509v3 formatted digital certificates.

The Access Point 600 can operate as an L2TP network server (LNS) or L2TP access concentrator (LAC) terminating or aggregating remote-user L2TP/PPP tunnels at enterprise sites.

An integral ICSA-certified stateful and stateless packet filtering firewall with built-in denial of service protection provides robust security at beyond T-3 rates. Centralized, policy-enabled firewall provisioning eliminates site-by-site configuration complexity and reduces the risk of security holes originating from configuration errors.

The Access Point 600 is also certified to the Federal Information Processing Standard (FIPS) to ensure the highest levels of security and integrity, as defined by the U.S. Government (available October 2002).

Rich management services

Administrators can control the Access Point 600 using an intuitive command line interface (CLI), an industry-standard SNMP manager, or a graphical web management navigator. An on-board RADIUS client simplifies management of VPN and dial-in clients for user authentication, call accounting, and support of IPSec client configuration data.

Optional Access Point QVPN Builder® software automates and centralizes policy-based, end-to-end provisioning of VPN and QoS networks. This powerful problem-solver enables IP VPN and QoS capabilities to be cost-effectively deployed, managed, and scaled to accommodate hundreds of individual user sites.

Select software for your specific requirements

Tailor the Access Point 600 to deliver the specific applications capabilities you need — and cost-effectively upgrade capabilities as your needs change — with Access Point software feature packages.

Access Point platforms include BASE Package software at no extra charge. This provides IP routing, LAN/WAN interface support, an ICSA-certified firewall, QoS management, and secure management operations. In addition, you can choose from three optional feature packages for delivering enhanced IP services:

- **Advanced Networking Package** – Includes BASE Package applications support plus advanced routing, support for PPPoE and PPPoA, and tunneling capabilities for L2TP VPN and Mobile IP applications
- **QVPN Package** – Includes BASE Package functionality plus ICSA-certified IPSec VPN support for both site-to-site and remote access applications
- **IP Services Package** – Includes all features of BASE, Advanced Networking, and QVPN packages. A FIPS-certified release is also available for use with the Access Point 600 platform

Expert Support from Lucent Worldwide Services

Access Point 600 platforms are protected by a full suite of technical support services, including Lucent's RTS Advantage service.

RTS Advantage offers 7x24 remote technical assistance, plus a subscription service that brings you software upgrades and updates at no additional charge. And to facilitate IP solution design and deployment, Lucent offers a full suite of global professional and customer support services.

The Lucent IP Services Router Advantage…

Partner with Lucent for:

- Powerful Access Point platforms expressly built for delivering multiple high-performance IP services to your enterprise customers
- Single-box IP services solutions that surpass competitors' multi-box offerings
- Superior performance at lower prices than competitive IP routers
- An innovative *Service Intelligent*™ Architecture to dynamically tailor business-quality IP services to your users' requirements
- Simplified IP services provisioning and network management
- World-class solution planning, design, deployment, integration, and technical support services

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

This document is provided for planning purposes only and is not intended to modify or supplement any Lucent Technologies specifications or warranties relating to the products or services described herein.

Specifications are subject to change without notice.

Access Point and QVPN Builder are registered trademarks of Lucent Technologies Inc.

Copyright © 2002
Lucent Technologies Inc.
All rights reserved

INS v2 1002

Lucent Technologies
Bell Labs Innovations

