Access Point®
Software Feature Packages





Introducing software-selectable IP services.

Custom-tailor the Access Point IP services router to your applications requirements.

Benefits

- Cost-effectively offer the specific IP services your customers need
- Migrate from basic to advanced services with a single IP platform
- Add network functionality on a pay-as-you-grow basis
- Choose BASE, Advanced Networking, QVPN, or all-inclusive IP Services packages

Lucent Technologies
Bell Labs Innovations

Superior flexibility and value in a purpose-built IP services platform

Unlike competitive routers, the Lucent Access Point is built to deliver multiple business-quality IP services — multi-access routing, VPN, QoS, firewall security, and policy management — from a single customer premises-based (CPE) platform. And now, with Access Point software feature packages, it's easier and more economical to satisfy your unique applications requirements.

Our four feature packages let you implement the precise high-performance capabilities you need today — and readily upgrade to additional capabilities as your needs change.

With this cost-effective software suite, you can tailor your Access Point platform to deliver the specific services you desire, including:

- High-speed IP access and routing
- High-capacity IP VPNs
- Managed bandwidth/QoS
- Mobile IP
- Data center services
- Web/application hosting
- Multi-dwelling unit (MDU)/multi-tenant unit (MTU) access concentration
- Metro-optical network edge routing

This versatile solution provides a future-proof growth path that allows you to easily and non-disruptively add IP services functionality whenever you need it on a cost-saving, pay-as-you grow basis.

Select the software features that suit your applications requirements

All Access Point platforms include Base Package software at no extra charge. This provides for a full range of essential IP capabilities. In addition, you can choose from three optional software packages to deliver enhanced capabilities and cost-effectively upgrade as your customers' needs change.

BASE Package

This multifaceted solution set supports popular applications such as IP access and routing, IP edge routing, bandwidth management, firewall security, and web/application hosting.

BASE Package capabilities include:

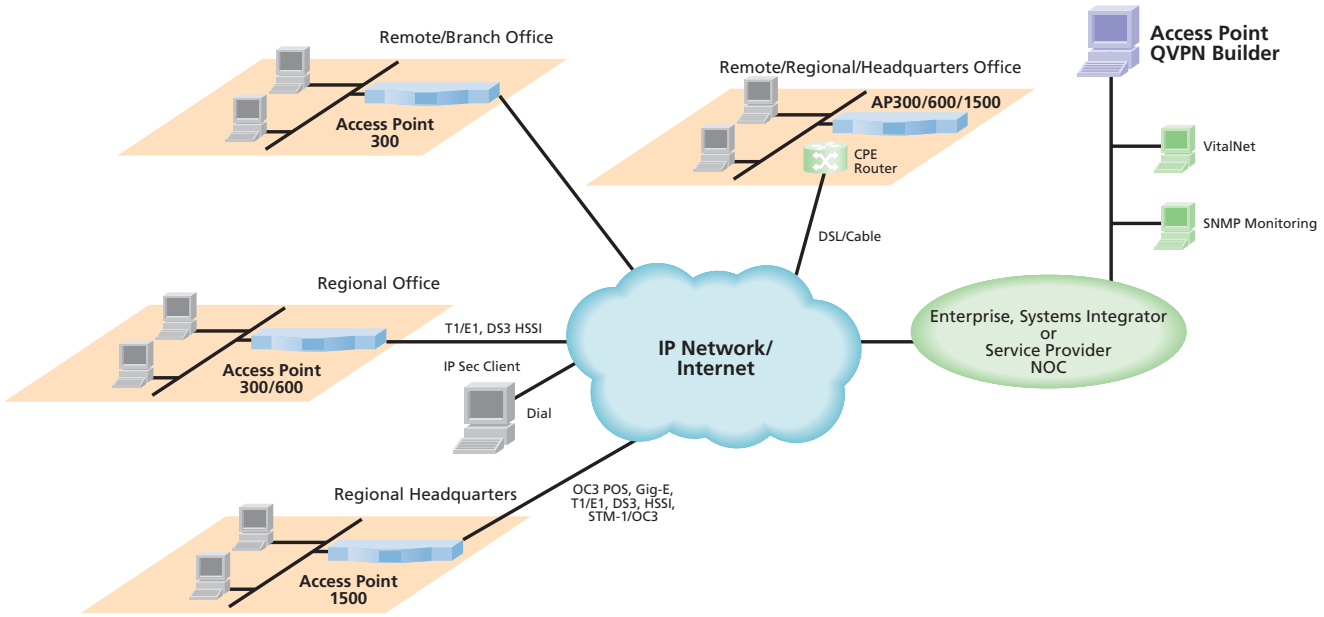
- Multi-access IP routing: including static, RIP, RIP2, OSPF, BGP-4, IGMPv2, DVMRPv3, and policy forwarding
- Versatile IP protocol support: Frame Relay, PPP, Multilink PPP and Frame Relay, ATM, SMDS, Packet over Sonet (PoS)
- Multiple LAN/WAN interface support: 10/100 Ethernet, POS OC3/STM-1, ATM OC3/STM-1, Frame-based DS3, ATM DS3, Gigabit Ethernet, HSSI, MSSI, and T1/E1
- ICSA-certified stateful and stateless firewall security: with enhanced denial of service (DoS) protection
- End-to-end quality of service (QoS) management and monitoring — including best-in-class, highly granular, hierarchical class-based queuing (CBQ); differentiated services (DiffServ) and Type of Service (ToS) Marking; and support for 802.1p/q VLAN QoS
- RADIUS client support
- Network address translation support: including basic NAT, port translation network address translation (PNAT), and load sharing NAT
- Secure management: SNMPv3, embedded web browser supporting HTTP/HTTPS, secure copy/shell (SCP/SSH), TFTP, Telnet

Advanced Networking Package

This option brings you enhanced routing and state-of-the-art layer 2 tunneling functionality for secure IP VPN and Mobile IP applications.

To support Layer 2 Tunneling Protocol (L2TP) VPNs, you can deploy the Advanced Networking Package as either an L2TP Access Concentrator (LAC) in high-speed network environments (e.g., fast Ethernet) or as a general-purpose L2TP network server (LNS). Integrated RADIUS Client capabilities support all your authentication and accounting requirements.

Mobile IP Foreign Agent/Home Agent (FA/HA) functionality — with full reverse tunneling and RADIUS authentication support — lets you easily integrate the Access Point into both 802.11 fixed wireless and mobile wireless environments.



You can use Access Point QVPN or IP Services software feature packages to deliver site-to-site or remote access service-level assured IP VPN solutions.

QVPN Package

The QVPN package includes an ICSA-certified IPSec VPN implementation and extensive Lucent IPSec client support capabilities that let you use the Access Point as a highly scalable site-to-site and remote access IPSec VPN gateway.

In addition, a newly updated suite of tools provides for enhanced monitoring and management of Access Point routers in service level assured (SLA) IPSec VPN environments.

IP Services Package

Enabling you to deliver the full range of IP services, this comprehensive offering gives you all the functionality of the BASE, Advanced Networking, and QVPN packages in a single value-priced software solution.

Automate and centralize policy management with Access Point QVPN Builder®

Whichever Access Point feature package you choose, you can make the most of it with optional Access Point QVPN Builder policy management software.

This powerful problem-solver enables IP VPN and QoS networks to be cost-effectively deployed, managed, and scaled to accommodate hundreds of individual user sites.

Expert Support from Lucent Worldwide Services

Access Point platforms and software feature packages 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.

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Features at a Glance

Software Feature Package	Capabilities	Key Target Applications
BASE Package	• Basic IP Routing • LAN/WAN Interface Support • Stateful and Stateless Firewall • Quality of Service Management • Secure Operations	• Managed IP Access and Routing Services • IP Edge Router • Managed Bandwidth/QoS • Firewall/Security Services • Web/Application Hosting
Advanced Networking Package	• Includes BASE Package • Advanced Routing • Tunneling Capabilities	• L2TP LNS and LAC VPN • Mobile IP FA/HA • MTU/MDU Internet Access • PPPoE/PPPoA Aggregation • Metro Optical/POP Network Edge
QVPN Package	• Includes BASE Package • IPSec VPN Support	• Site-to-Site and Remote access IPSec VPN's • SLA-based IPSec VPN's
IP Services Package	• Includes features of all Access Point Software Feature Packages (BASE, Advanced Networking, QVPN)	• Secure IPSec over L2TP VPN's • Secure Metro Optical/POP Network Edge • FIPS Certification for AP 600 and AP 300 (Available October 2002)

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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