

# Lucent Ethernet Router Product Portfolio



## Increase Profitability.

Ethernet/MPLS network solutions combined with a service aware end-to-end network architecture simplify the deployment of Ethernet-based services.

### Benefits

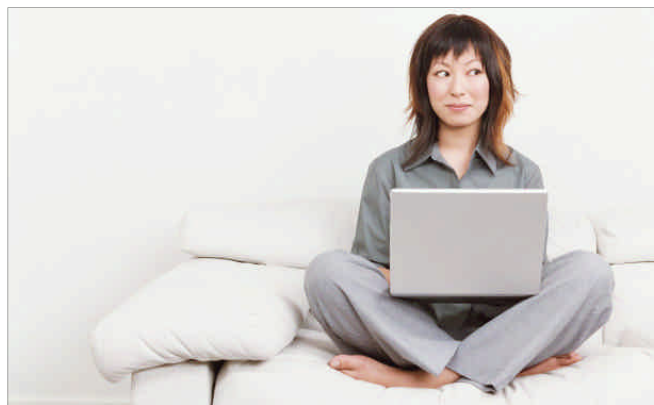
- Converged network infrastructure — while preserving investments
- Simplicity and economics of Ethernet
- Quality of Experience with QoS, Scalability, Reliability
- Speed time to market, improve service delivery
- Carrier Ethernet as a springboard for new services

**Lucent Technologies**  
Bell Labs Innovations



## Lucent Ethernet Routers - Access, Aggregation and Core

We are rapidly moving toward a world of readily available broadband connectivity. Coworkers in different cities collaborate on a presentation. A doctor examines a CAT scan from across the country. A grandmother video conferences in to her grandson's birthday party. Everywhere, across all walks of life, from school kids to telecommuters, to large business, the demand for these types of services and service integration continues to grow.



To address this growing demand for services, wireline and wireless operators are building next-generation Ethernet-based networks to provide businesses and residential customers with such services as Internet access, Virtual Private Networks (VPNs), Internet Protocol Television (IPTV), Voice over Internet Protocol (VoIP), IP Multimedia Subsystems (IMS), and 3G data.

These new services are driving new infrastructure requirements such as greater bandwidth and subscriber scalability, support for high availability for real-time multimedia while keeping costs under control. All of which cannot be addressed by legacy broadband technologies and








have been driving the adoption of Ethernet as the new carrier edge infrastructure. Ethernet is flexible, allowing service providers to adjust the bandwidth to meet fluctuating demand, it simplifies the network architecture. Using Virtual Private LAN Services (VPLS) which is based on MPLS, Ethernet also supports the high availability requirements that are critical to delivering the user quality of experience for the new triple play services.

According to a report by the industry analysts Heavy Reading in May 2006, worldwide carrier Ethernet switch and router revenue will grow from approximately \$190 million in 2004 to nearly over \$2 billion in 2008.





Lucent, with the recent acquisition of Riverstone Networks' Ethernet technology, is leading the way in Ethernet innovation, supplying Ethernet-optimized routers built specifically for carriers. Lucent's Ethernet router portfolio allows carriers to address their customers' demand for service and bandwidth scalability and network reliability.

Lucent's MPLS-enabled Ethernet routers span the network edge to core. The portfolio consists of GE and 10GE access, aggregation and core routers, and provides a consistent set of highly reliable and scalable features and functionality across a broad range of form factors.

The Lucent Ethernet Router 15000 product family features a modular operating system delivering extensive software reliability necessary to prevent a router failure and end-user service interruption. The 10 GE Ethernet Router 15800 is the industry's first true Ethernet-optimized multiservice edge platform, permitting carriers to offer converged Layer 2 and Layer 3 services across their next generation Ethernet infrastructures while providing interworking for legacy technologies. The Ethernet Router 15100 and 15200 were designed from the ground up to cost-effectively extend MPLS to the Ethernet access network, providing all the features and functionality of the 15800 at a price point comparable to an enterprise-grade Ethernet switch.

Service Edge	Aggregation	Core
<b>Lucent Ethernet Router 15800</b> (Formerly Riverstone 15008) 	<b>Lucent Ethernet Router 15800</b> (Formerly Riverstone 15008) 	<b>Lucent Ethernet Router 15800</b> (Formerly Riverstone 15008) 
<b>Lucent Ethernet Router 15100/15200</b> (Formerly Riverstone 15100/15200) 	<b>Lucent Ethernet Router 15200</b> (Formerly Riverstone 15200) 	
<b>Lucent Ethernet Router 1100/3x00</b> (Formerly Riverstone 1100/3x00) 	<b>Lucent Ethernet Router 8x00</b> (Formerly Riverstone 8x00) 	

# Lucent Ethernet Router Portfolio

<b>Lucent Ethernet Router 15800</b> 	<b>Lucent Ethernet Router 15100/15200</b> 	<b>Lucent Ethernet Router 8000/8600</b> 	<b>Lucent Ethernet Router 1100/3x00</b> 
<b>Lucent Ethernet Router 15800</b>	<b>Lucent Ethernet Router 15100/15200</b>	<b>Lucent Ethernet Router 8000/8600</b>	<b>Lucent Ethernet Router 1100/3x00</b>
Size (rack units/U): 2 U	Size (rack units/U): 2 U	Size (rack units/U): 8000: 5 U / 8600: 11 U	Size (rack units/U): 2 U
Switch Fabric Capacity: 384 Gbps	Switch Fabric Capacity: 20/40 Gbps	Switch Fabric Capacity: 32/64 Gbps	Switch Fabric Capacity: 12/20 Gbps
Routing Performance: 288 Mpps	Routing Performance: 15-30 Mpps	Routing Performance: 15-30 Mpps	Routing Performance: 4.6-10.7 Mpps
Operating System: Lucent Ethernet Router OS-X	Operating System: Lucent Ethernet Router OS-X	Operating System: Lucent Ethernet Router OS	Operating System: Lucent Ethernet Router OS
Linecard Slots: - 8 Linecard - 2 Control Module - 4 Switch Fabric	Port Configuration: 15101 - 20 access ports - 4 network ports 15102 - 20 access ports - 4 network ports 15201 - up to 24 access ports - up to 4 combo ports - 2 network ports 15202 - up to 24 access ports - up to 4 combo ports - 2 network ports	Linecard Slots: 8000: 7 8600: 15	Linecard Slots: 1100: - 2 linecard slots 3100: - 2 linecard slots plus - 32 RJ45 Fast Ethernet 3200: - 2 linecard slots plus -24 SFP Optical Ethernet
Interfaces: - Fast ethernet - Gigabit Ethernet - 10 Gigabit Ethernet - POS OC-3/STM-1 - OC-12/STM-4 - OC-48/STM-16 - OC-192/STM-64 - ATM - OC-3/STM-1 - ATM OC-12/STM-4 - ATM OC-48/STM-16	Interfaces: -10/100/1000Base-TX - FE/GE (SFP) - Gigabit Ethernet - 10 Gigabit Ethernet	Interfaces: - 10/100 (TX,FX & BX) - Gigabit Ethernet - GigE ASM - GigE MPLS - POS/SDH OC3c MPLS - POS/SDH OC12 MPLS - T1/E1 - DS3/E3 - ATM DS3/E3/OC3c - ATM OC12c - Channelized DS3	Interfaces: - 10/100 (TX , FX & BX) - Gigabit Ethernet - GigE ASM - GigE MPLS - POS/SDH OC3c MPLS - T1/E1 2 port DS3/E3 - DS3/E3 - ATM DS3/E3/OC3c
Certifications: NEBS Level 3, GR-1089, GR-63, ETSI: ETSI EN 300-386, EN 300-109, ETS 300-753, MEF	Certifications: NEBS Level 3, GR-1089, GR-63, ETSI: ETSI EN 300-386, EN 300-109, ETS 300-753, MEF	Certifications: NEBS Level 3, GR-1089, GR-63, ETSI: ETSI EN 300-386, EN 300-109, ETS 300-753, MEF	Certifications: NEBS Level 3, GR-1089, GR-63, ETSI: ETSI EN 300-386, EN 300-109, ETS 300-753, MEF

## Converged Ethernet Transport Solutions



Get the Lucent advantage...

Lucent Ethernet Routers provide the next-generation converged network infrastructure for wireline and wireless business and residential services.

- Deliver user Quality of Experience
- Industry's most scalable portfolio of end-to-end VPLS/HVPLS access-to-core solutions
- Support high reliability, subscriber and video scalability and granular QoS
- Integrate L2/L3 routing solution with IP/MPLS/VPLS/HVPLS and scalable VPLS/PIM multicast support
- Deployed in the largest IPTV and Triple Play networks in the world
- Drive industry standards (VPLS/HVPLS) and certifications (MEF)

To learn more about our comprehensive portfolio, please contact your Lucent Technologies Sales Representative or visit our web site at <http://www.lucent.com>.

This document is for informational or planning purposes only, and is not intended to create, modify or supplement any Lucent Technologies specifications or warranties relating to these products or services. Information and/or technical specifications supplied within this document do not waive (directly or indirectly) any rights or licenses – including but not limited to patents or other protective rights – of Lucent Technologies or others.

CBX 3500, CBX 500, GX 550, LambdaUnite, LambdaXtreme, Metropolis, Navis, PacketStar, Stinger, VitalNet, VitalSQM, and WaveStar are trademarks or registered trademarks of Lucent Technologies Inc.

E-Series, M-Series, and T-Series are trademarks of Juniper Networks, Inc.

Copyright © 2006  
Lucent Technologies Inc.  
All rights reserved

LERP v1. 05/06

**Lucent Technologies**  
Bell Labs Innovations

