

# extend

## Product Brief

### Nortel Networks

#### Contivity and the Services Edge Router 5500 for enterprises

*Service provider-proven  
virtual private network  
technology is now available  
to enterprises.*

**F**uture-minded enterprises continue to redefine the nature of corporate communications. These enterprises are employing mission-critical Internet applications, are encountering new opportunities, and are meanwhile lowering operating costs. In doing so, they are consistently turning to the Nortel Networks Contivity\* Secure IP Services Gateway portfolio. Contivity continues to secure its role as the industry-leading VPN solution, having been determined the #1 dedicated VPN device, with a 35 percent market share, by InStat/MDR.


Designed for headquarters, regional, and remote deployments alike, the Contivity portfolio offers a range of product options, featuring the Contivity 5000 Secure IP Services Gateway. The Contivity 5000 offers IP routing, stateful firewall, encryption, authentication, directory and policy services, quality of service (QoS), and bandwidth management from a single integrated platform.

For the transport of critical data throughout your network, Contivity is your secure VPN solution.

Relatively new to the enterprise environment—having been battle tested in the demanding service provider world—is Nortel Networks Services Edge Router 5500 (formerly branded as the Shasta\* 5000 Broadband Service Node). Consider the Services Edge Router (SER) 5500 an even more robust Contivity 5000. In most enterprise environments, the SER 5500 doesn't supplant Contivity; rather, it complements it.

The SER 5500 has been rated as the #1 IP services switch in the industry by Synergy Research and Infonetics Research since its market inception, 15 quarters in a row. This accomplishment speaks not only of the robustness of the platform but of its diverse capabilities and rock-solid reliability.

The SER 5500 distinguishes itself from other platforms in a number of ways—for example, it provides built-in IP services capability designed to enable seamless deployment of high-bandwidth services to up to 4,192 departmental VPNs. Equally important, and unique, is the SER 5500's ability to support multiple traffic types and access technologies, including L2TP, IPSec, PPPoE, PPPoA, IP over ATM, IP over frame relay, HDLC/PPP over frame relay, GRE, VLAN tagged, and IP-Demux.



Success in the service provider environment has now led to deployments of the SER 5500 into the core of networks at major financial institutions, national defense sites, criminal justice systems, universities, hotel/convention centers, and government agencies.

### **When is a Services Edge Router 5500/Contivity combo the right solution?**

As your communications demands continue to escalate, the SER 5500 is the right choice as your central router for multiple Contivity boxes. The SER 5500 supports up to 64 routers, allowing you to segment your network as appropriate.

The SER 5500's IP security services are bundled as a complete security suite—the Nortel Networks IP Services Operating System (iSOS)—for customizable, easy-to-provision traffic protection for the breadth of your network, regardless of protocol.

The SER 5500 also provides the industry's first network-based ICSA-certified state-aware firewall, enabling flexible network-wide rule provisioning. The SER 5500 firewall is centrally managed, provides a comprehensive interface to define firewall rule sets, and is capable of tracking complex IP applications such as SIP-based voice over IP.

The complementary nature of the SER 5500 and the Contivity product portfolio is *brought full circle*. What does this mean? SER 5500 features are linearly designed with those of the Contivity line—the two go hand in glove.

### **The Contivity portfolio**

Contivity Secure IP Services Gateways connect remote users, branch offices, suppliers, and customers with the cost and performance advantages of public IP networks and the security and control found in private networks.

The Contivity portfolio begins with the Contivity 200 VPN Switches—customer premises devices for low-cost, secure VPNs for teleworkers and small remote sites, offering up to five VPN tunnels. The portfolio culminates with the Contivity 5000 Secure IP Services Gateway next-generation platform, providing up to 5,000 VPN tunnels to securely connect branch offices and remote workers to enterprise headquarters and large regional sites. Contivity has the specific solution to meet your particular needs.

You'll also be well positioned to provision additional IP Services on a self-selection basis—voice over IP or multimedia streaming, for example.

### **The Services Edge Router 5500**

Internet-based services are proliferating at a steady pace. Obviously, this is good news to any entrepreneurial enterprise, but the opportunities don't come without cost—most particularly, operating costs in the form of resources to confront increased network complexities and security demands.

By delivering the functions of core routers, VPN appliances, standalone firewalls, and RAS boxes all within a single platform, the versatile and flexible SER 5500 provides unparalleled cost-reduction opportunities via device consolidation and simplified management.

The SER 5500 is designed for any access, any backbone, any service. It provides built-in and customizable IP services to meet the most demanding service and security imperatives.

The Services Edge Router 5500 provides:

- Reduced network complexity
- Cost savings
- VPN security
- High-touch service delivery
- Scalability

The SER 5500 contains the single Service Creation System (SCS) that functions as both a service-provisioning and element-management system, enabling service creation, service assurance, and Operations Support System integration for a network of SER 5500s. The SCS is designed to lower the cost of operation as subscriber count and associated services scale up.

The SER 5500 Personal Content Portal presents users with a personalized service-selection page and allows enterprises to apply on-demand bandwidth policies based on user selections. It also provides IP traffic shaping and policing to control the bandwidth of subscriber Internet access.

As enterprises increasingly realize the benefits of offering or improving network services for telecommuters and mobile workers, the SER 5500 is ready. The SER 5500 takes advantage of the Contivity VPN Client, the world's most widely used IP security client, and also supports L2TP tunneling as a Virtual Private Dial-up Network service.

### **Success speaks**

“Increasing the quality and range of services we provide to our customers inevitably translates to an increased flow of information between sites. The real challenge in the banking world is to increase the performance and flexibility of these communications without compromising security.

“The combination of the Nortel Networks Services Edge Router 5500 and Contivity Secure IP Services Gateways has allowed us to meet our connectivity goals with a very high degree of security. This is absolutely essential in maintaining the relationship of trust we enjoy with our customers.” —Luis Marcos, Caixa Catalunya



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**—Luis Marcos, Caixa Catalunya**

## **Your competitive, proactive information tool**

New business realities bring profound implications for network and information management strategies. IT executives have had to reassess the way they build, manage, and use information infrastructures. Under constant pressure to do more with less, businesses have to push for more competitive and proactive information management models.

Nortel Networks delivers solutions that cost less to operate, have fewer or no bottlenecks, and are open and flexible to support new applications and services that drive business results.

Nortel Networks solutions are the engines behind some of the largest network-based service provider IP-VPNs and award-winning DSL broadband services in North America, and are today provisioned worldwide. These solutions are meeting the evolving demands of vast carrier networks and individualized enterprise requirements alike.

With its Contivity portfolio and Services Edge Router 5500, Nortel Networks has a VPN solution to meet your present needs and to mature with you into the future.

*Nortel Networks is an industry leader and innovator focused on transforming how the world communicates and exchanges information. The company is supplying its service provider and enterprise customers with communications technology and infrastructure to enable value-added IP data, voice and multimedia services spanning Wireless Networks, Wireline Networks, Enterprise Networks, and Optical Networks. As a global company, Nortel Networks does business in more than 150 countries.*

*More information about Nortel Networks can be found on the Web at:*

**[www.nortelnetworks.com](http://www.nortelnetworks.com)**

For more information, contact your Nortel Networks representative, or call 1-800-4-NORTEL or 1-800-466-7835 from anywhere in North America.

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