



# Control Plane Intelligence for Multiservice Networks

## The Express Route to Efficient Operations and Dynamic Services

### End-to-End Network Awareness

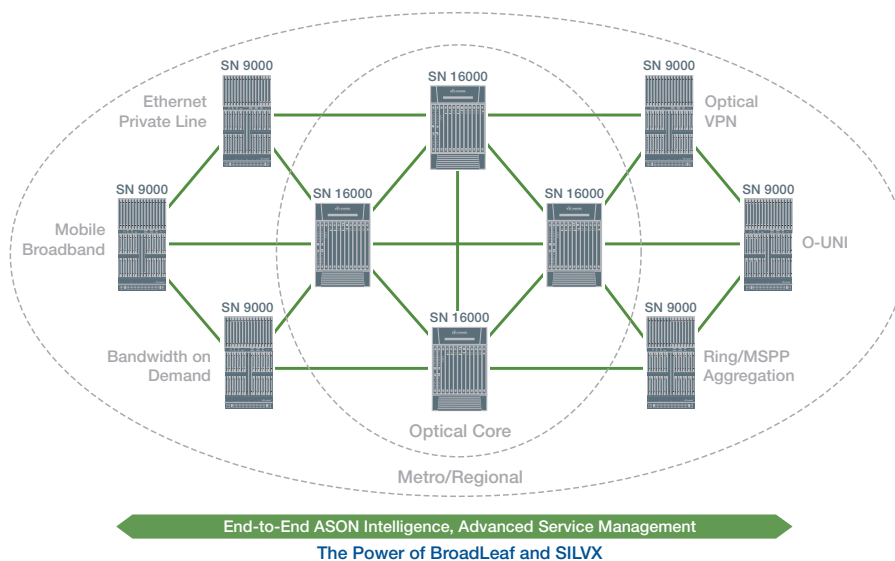
ASON/GMPLS-empowered control plane solutions from Sycamore Networks extend intelligent bandwidth management, optical mesh survivability, and enhanced capacity utilization across multiple network layers and segments. This approach has proven to dramatically simplify operations, improve the end-to-end manageability of circuit and packet services, and ensure their survivability – even in the event of multiple, simultaneous failures. The control plane intelligence embedded in our new SN 9000 Intelligent Multiservice Switch, and across our entire edge-to-core portfolio of optical switching platforms, increases network scalability, facilitates evolution toward automated operations, and enables carrier-class Ethernet and dynamic bandwidth services.

Sycamore launched BroadLeaf®, the first IP standards-based optical signaling and routing software, in 2001; and went on to develop one of the very first control plane implementations to fit within the ASON framework and the first commercially available implementation of GMPLS.

Today, with continuous innovation and enhancement based on extensive deployment experience in Tier 1 networks, BroadLeaf is the most robust control plane software available for optically switched networks, and complies with emerging industry standards.

### Features and Benefits

- Increase Service Flexibility and Provisioning Speed
- Enhance Network Resiliency, Scalability, and Efficiency
- Simplify Operations and Management
- Facilitate Packet/Optical Convergence
- Reduce CapEx and OpEx up to 70%
- Deployed in Tier 1 Networks Since 2001



### Choose the Intelligent Route to Next-Gen Services

The powerful combination of SILVX and BroadLeaf supports end-to-end management of traditional, transitional, and next-generation circuit/packet services from a single management platform, and extends bandwidth optimization to multiple segments and service layers.

## Empowering Visibility and Control

BroadLeaf works with SILVX® NMS to form a flexible, reliable software foundation for today's evolving multiservice networks. Sycamore software scales seamlessly to meet growing demands for agile bandwidth services (e.g., VPN, Ethernet/SDH private line, EVPL, bandwidth on demand, mobile broadband).

SILVX, building on BroadLeaf's network awareness, makes it easy to correlate multi-layer service information (Ethernet, optical, low-order and high-order SDH/SONET) from a single management platform. This accelerates end-to-end service provisioning and restoration, simplifies troubleshooting, and improves visibility and control of resource utilization.

Now you can realize all the operational efficiencies, cost savings, and competitive benefits of an ASON-powered control plane without any disruption to your existing networks and services. Sycamore control plane solutions demonstrate their maturity and reliability every day, helping some of the world's largest and most innovative fixed line and mobile networks maintain their market leadership. And they can do the same for you.

---

**For more information about our intelligent networking products and solutions, please contact your Sycamore Sales Representative.**

## BRINGING SERVICE AGILITY TO THE LEADING EDGE

The newest addition to the Sycamore switching portfolio, the SN 9000 Intelligent Multiservice Switch, offers fixed line and mobile operators an ASON-powered intelligent bandwidth management solution for diverse applications – from edge and hub to metro and regional core – with:

- **Unprecedented configuration flexibility** – combining port-agnostic support for high and low-order TDM and Ethernet switching with distributed, tiered grooming, add/drop multiplexing, and optical transport in a single compact platform
- **High-density, multiservice aggregation** – achieving new operational efficiencies and expense reductions and simplifying the introduction of high-bandwidth services (e.g., IP, multirate Ethernet from 10/100/1000 Mbps to 10 GigE, MPLS, VLAN, 3G and beyond)
- **In-service scalability (80 Gbps to 320 Gbps)** and innovative bandwidth licensing – reducing upfront costs and allowing seamless, pay-as-you-grow expansion

The SN 9000 delivers agile, cost-effective support for ring and mesh protection mechanisms at multiple levels, the interworking of ring and mesh topologies, and any mix of traditional, transitional, and next-generation services – from edge to core.

Sycamore Networks, Inc. • 220 Mill Road • Chelmsford, MA 01824-4122, USA • Phone: 978-250-2900 • Fax: 978-256-3434 • [www.sycamorenet.com](http://www.sycamorenet.com)

Sycamore Networks, Inc. (NASDAQ: SCMR) is a leading provider of intelligent bandwidth management solutions for fixed line and mobile network operators worldwide. From multiservice access networks to the optical core, Sycamore products enable network operators to lower overall network costs, increase operational efficiencies, and rapidly deploy new revenue-generating services.

Sycamore assumes no responsibility for the accuracy of the information presented, which is subject to change without notice. BroadLeaf, SILVX, Sycamore, and Sycamore Networks are trademarks or registered trademarks of Sycamore Networks, Inc. in the United States and/or other countries. Copyright © 2009 Sycamore Networks, Inc. All Rights Reserved.

