



## SN 16000 Intelligent Optical Switching Platform

### Secure Your Transition to Dynamic Bandwidth and Net-Centric Operations

#### A Powerful Foundation

Integrating seamlessly with the voice and data technologies in today's government networks, the SN 16000 Intelligent Optical Switch supports diverse applications while setting new benchmarks for modularity and switching power. Consolidating multiple network functions (BB-DCS, ADM, DWDM, OXC) in one intelligent and highly scalable platform delivers high-density, multiservice (voice/data/IP) aggregation with maximum flexibility and efficiency.

Intelligent bandwidth management improves capacity utilization, simplifies operational procedures, and enhances network scalability. Ethernet Packet Intelligence – intelligent policing and packet-to-circuit mapping – builds on the efficiency and interoperability enabled by ITU-T standards (VCAT, LCAS, GFP) to achieve a new level of Ethernet services manageability. Together, modular architecture and intelligent bandwidth management create a more robust, resilient infrastructure that optimizes network and service performance while reducing costs and complexity. The SN 16000's advanced switching capabilities form the secure and reliable cornerstone for network-centric operations and services.

#### Modularity Ensures Flexibility

Modular chassis design makes it possible to precisely tailor the switch to the location – today and tomorrow. Matrix sizes from the single chassis SN 16000 SC (64 x 64, 160 Gbps) to the industry's largest SN 16000 MC-1024 (1024 x 1024, 2.56 Tbps) enable operators to scale networks simply, non-disruptively, and on a just-in-time basis to accommodate high-bandwidth, multiservice traffic growth. In any configuration, completely redundant hardware system components and interconnections deliver field-proven reliability.

Taking modularity a step further, the SN 16000's Universal Service Card (USC) incorporates interchangeable high-speed Ethernet, SONET/SDH, and OTN/G.709 interfaces and pluggable transport optics – on a single line card. The USC allows unprecedented network design flexibility, pay-as-you-grow deployments, and provides an extensible platform for feature enhancements. Industry-leading Ethernet port densities offer a compelling alternative to costly router interfaces for scaling IP/data networks. From chassis configuration to service interfaces and transport optics, unprecedented modularity contributes to unsurpassed port density, flexibility, and network availability.

#### Intelligence Enhances Manageability

Sycamore's industry-leading BroadLeaf® networking software and SILVX® network management system empower seamless, network-centric operations. BroadLeaf/SILVX synergies create an extremely robust optical layer to support data traffic (ATM, Frame Relay, Ethernet, IP, and private line) with system-wide manageability and scalability.

#### Features and Benefits

- Unmatched Capacity and In-Service Scalability
- Interchangeable SONET/SDH, Ethernet Interfaces
- Highly Modular, Pay-as-You-Grow Architecture
- RADIUS Authentication, Other Security Features
- Optical Mesh Resiliency, Field-Proven Reliability
- JITC-Certified Interoperability and Performance



