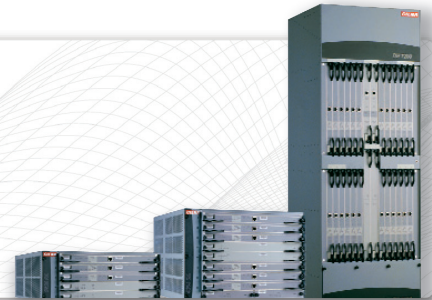




## DN 7000™ Series

### Multiservice Edge Switching and Aggregation Platform



**Ciena's DN 7000 series multiservice edge products offer a wide spectrum** of cost-effective Ethernet- and IP/MPLS-based service delivery, from modern data-aware access networks to the edge of the IP/MPLS core.

With the DN 7000 series, service providers can deploy solutions appropriate to customer demand and service area density at a lower cost than any other product on the market today. The DN 7000 series delivers Ethernet, IP/MPLS, ATM, Frame Relay, and TDM aggregation and switching on a single platform, so service providers can facilitate the convergence of new and existing services and networks onto Ethernet- and IP/MPLS-based architectures while protecting their current Layer 2 investments.

The DN 7000 series is highly reliable, scalable, and cost-effective. It delivers six-9s reliability through its telephony-grade operating system, enabling in-service software upgrades and downgrades without disruption. It features industry-leading scalability via significant increases in port, Pseudowire Emulation Edge-to-Edge (PWE3), Virtual Circuit (VC), and Label-Switched Path (LSP) densities and processing power. The series' compact design minimizes space and power requirements by consolidating multiservice switching onto a single chassis rather than deploying multiple products, thus reducing continuing costs and deployment to provide substantial capital and operations savings.

The DN 7000 series enables migration to Ethernet and IP/MPLS with advanced Ethernet interworking and multiservice

pseudowires. Service providers can expand their addressable market, reach and availability for Ethernet by utilizing advanced Ethernet service and network interworking with traditional Layer 2 customers and networks. In addition, the DN 7000 series' multiservice pseudowires facilitate convergence by enabling new Ethernet service delivery and seamless Frame Relay, ATM and TDM migration onto an IP/MPLS core.

The three models of the DN 7000 series share common hardware and software, decreasing sparing requirements and simplifying system operation and management. Through software-only configuration and dual control planes (MPLS and/or ATM), the series' multiservice interfaces can be independently provisioned to run in Ethernet, IP/MPLS, and/or ATM modes. The DN 7000 series supports a wide variety of interface types that scale from DS0 to OC-48/STM-16 as well as 10/100 and Gigabit Ethernet speeds.

The DN 7000 series addresses the requirements of Triple Play aggregation, business data services and fixed/mobile convergence applications including:

- Layer 2 MPLS VPNs using pseudowires (Ethernet, TDM, Frame Relay, and ATM)
- Any-to-Any Ethernet service and network interworking with Frame Relay and ATM
- Converged 2G/3G mobile voice and data radio-access networks via TDM, ATM and/or pseudowire-based backhaul
- Gigabit Ethernet and/or ATM-based broadband services aggregation (DSL/FTTx)

#### Features & Benefits

- Delivers 99.9999 percent carrier-class reliability to improve service level agreements and customer satisfaction
- Processes any service on any port, allowing faster service delivery, reduced capital expenditures and ease of sparing
- Features a small footprint, which reduces operations expenses
- Offers industry-leading port density and granular scalability from 2.5 Gb/s to 40 Gb/s
- Provides industry-proven inter-operability with existing service provider Operations Support Systems (OSSs) and practices
- Supports high subscriber-density and traffic volumes, processing up to 128,000 pseudowires, VCs or LSPs per port, and up to 800 calls-per-second per module
- Enables rapid provisioning, monitoring, troubleshooting and standards-based OSS integration through Ciena's ON-Center DN 7000 Manager