



Dedicated SONET Ring (DSR)

The transport architecture of choice for high-speed, high-bandwidth data requirements



Information is one of the keys to success in today's high-stakes business environment. Companies that organize and transport vast amounts of data more securely and at faster speeds stand a greater chance of making progress. And that's exactly how a Dedicated SONET Ring (DSR) service from Verizon can help your business succeed.

A fiberoptic network built for speed and survivability

One of the greatest benefits of SONET-based transport technology is that it enables you to interconnect multiple locations utilizing a single dedicated, customizable private network. Equally important benefits include:

■ **Compatibility and Flexibility:** Verizon DSR service is compatible with the most widely used data transport technologies. Depending on service availability and your specific requirements, Verizon DSR is available at OC-12, OC-48 and OC-192 bandwidths. TDM interfaces include DS1/DS3, OC3/3c, OC12/12c and OC48/48c. GigE interfaces include GigE1 (50 Mbps), GigE3 (150 Mbps), GigE6 (300 Mbps), GigE9 (450 Mbps), GigE12 (600 Mbps) and GigE24 (1,000 Mbps).

■ **Survivability:** Verizon DSR service is self-healing technology that ensures optimum network reliability and redundancy to ward against loss of services. Although not always possible in dense metropolitan areas, our objective is to deploy the two fiber paths common to the SONET ring (fiber path diversity) at least 25 feet apart to help ensure the ring's survivability in the case of a fiber cut. The ring architecture is designed to have no single point of failure, and service interruptions usually last only milliseconds.

■ **Reliability and Security:** Substantial overhead information is provided with SONET-based technology, allowing for quicker troubleshooting and detection of weaknesses before they degrade to more serious levels. This makes Verizon DSR an extremely attractive solution for companies that must transmit large quantities of mission-critical data.

■ **Professional Monitoring and Maintenance:** Our highly trained technicians proactively monitor the network 24/7. Plus, we offer an optional Customer Service Management (CSM) feature that provides detailed, real-time reports of network performance.

■ Enhanced SONET Interfaces:

- Ethernet transport makes LAN-to-WAN-to-MAN connectivity seamless. Native Ethernet circuits terminate directly on the Ethernet port and no TDM conversion is required.
- Direct DS1 access provides a smaller bandwidth pipe for locations with low-bandwidth needs.
- Trans-Multiplexing¹ allows for more specific traffic.

■ **Cost-effectiveness:** Verizon DSR is a cost-efficient solution that provides flexible bandwidth and various pricing options.

■ **Fully Dedicated Service:** Both the facilities and Add/Drop Multiplexer (ADM) nodes are fully dedicated.

■ **Multi-Service Platform:** DSR facilitates network convergence by providing the ability to bundle a variety of interfaces on one fiber backbone (IP and TDM).

■ **Scalability:** Meets your current and future bandwidth requirements with no forklift upgrades required.

Built on a strong foundation

Verizon DSR is used to construct network backbones over which high-speed, high-volume voice, video, data and Storage Area Networking¹ applications travel, enabling your business to:

- Enhance productivity and realize cost efficiencies by consolidating your voice, video and data networks.
- Move low-speed services to a consolidated, high-performance network.
- Support continuous Internet access and high-bandwidth applications such as desktop videoconferencing, medical imaging, multimedia, bandwidth on demand and network management capabilities.
- Connect geographically dispersed locations, further leveraging your existing network investment.
- Support multiple protocols with various bandwidth requirements.
- Deploy advanced applications that allow for more efficient network utilization, and build a foundation for IP network migration.
- Provide comprehensive call center or data center support.

Your complete source for data and voice services

Choosing the right solutions provider is a vital decision in today's changing marketplace. With nearly 100 years of communications experience, Verizon is a proven industry leader with an extensive portfolio of data and voice products that can help your business make progress every day. With our qualified team of SONET experts and an unprecedented nationwide service area, we are ready to help you build a secure, scalable, private network using the latest in SONET technology. With Verizon, you have an established partner who is committed to building relationships — as well as solutions.

To learn more about Verizon Dedicated SONET Ring (DSR) service — or any of our powerful data and voice services — contact your Verizon account representative today.

verizon.com/smallbiz/data1

¹ Trans-Multiplexing and Storage Area Networking capabilities are currently under development for DSR. All references to Verizon products and services that are not currently available are tentative and subject to technology advancements and shifting market conditions.

Long Distance Services provided by Verizon Select Services Inc. Verizon does not provide InterLATA Long Distance in Alaska. Not all services available in all areas.

