



## Optical Services

## FLEXIBILITY, INTEGRATION and EVOLUTION

### Achieve significant lower per bit costs through consolidation and integration

What happens when hundreds of carriers and service providers, from across the globe, meet to exchange Terabytes of network traffic? A convergence of thousands of traditional circuit and advanced packet services occurs that demands a next generation platform unlike no other. Terremark recognized this and deployed a multiservice optical switching platform that integrates seamlessly into their customers networks to deliver a wealth of optical and network services. By consolidating disparate network elements into a single platform, significant costs savings are realized by customers that need to cross-connect circuits, multiplex or de-multiplex facilities, terminate optical rings or convert circuits from North American standards to European or Asian standards. Terremark's optical switching services meet these needs and more, for hundreds of customers, every day.

### Advanced Optical Monitoring Services

Terremark's Advanced Optical Monitoring Services spans a wide range of transport technology domains, regardless of vendor and geographic deployment. From our secure Network Operations Center, engineers and technicians monitor and troubleshoot your optical network elements, 24 x 7 x 365. This includes alarm, fault and configuration management, end-to-end path management, record keeping and reporting. Customers realize increased network availability, lower operational costs and faster times to revenues.

### Multiplexing and De-Multiplexing Services

Terremark's Multiplexing and De-Multiplexing services facilitate the conversion of circuits and signals for the accurate and efficient transmission of traffic between disparate networks. This service allows customers to terminate any interface on the optical switch, regardless of their peering or transit agreements or cross-connect needs, providing unprecedented flexibility and scalability in their network design. This service supports both SDH/SONET protocols and the broadest range of interfaces from DS-1/E-1 to OC-192/STM-64 and Gigabit Ethernet.

## International Gateway Services

Within Terremark's NAP locations, there are hundreds of global service providers and carriers interconnected to each other. Some of these customers connect via international SDH standards while domestic customers will choose SONET standards. Terremark's International gateway Services perform the necessary conversions and Gateway functionality to convert SONET signals to SDH and vice-versa. This capability eliminates the need for customers to purchase and maintain expensive optical switches while providing immense flexibility in the type and data rates that customers can terminate and connect with each other.

Terremark's Gateway service extends to the VF level to perform u-law to A-law conversion for T1 to E1 circuits thus eliminating a customer's requirement to purchase advanced channel bank equipment. International Gateway Services include:

- **T1 to E1**
- **OC-3 to STM-1**
- **OC-12 to STM-4**
- **OC-48 to STM-16**

## Optical Ring Termination Services

Terremark's Ring Termination Services are designed to work with a variety of standard compliant SONET/SDH products delivering a seamless, end-to-end protection scheme.

These schemes include:

- **MS-Spring/BLSR**
- **SNCP/UPSR**
- **1+1 MSP/Linear APS**
- **DNI/DRI**

## Standard Products and Services

### • **Colocation Services**

Terremark's Colocation services offer a highly secure and reliable carrier-neutral environment to deploy your computing, telecom, storage and IT equipment.

### • **Managed Internet Access**

With direct access to the backbones of the world's leading carriers, Terremark connect customers directly to the heart of the Internet, consistently delivering the quality of service required for Streaming Multimedia, Voice over IP and other demanding applications

### • **Managed Hosting Service**

Terremark's Managed Hosting service includes all the HW and SW required for a dedicated server environment accompanied by a full suite of technical support, maintenance and monitoring services.

### • **Managed Storage and Security Services**

Terremark has a suite of proven, fully managed Storage and Security services that provide reliable and scalable solutions to mitigate the business risk associated with the vulnerability, corruption and loss of mission-critical data.



COMPLETE DELIVERY of SECURITY, INFRASTRUCTURE, and NETWORKS

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