

Native LAN



Native LAN (NLAN) service allows your business to take advantage of the same Ethernet technology you use in your Local Area Network and extend it to your Metropolitan Area Network and beyond. Ethernet has quickly become the WAN connectivity method of choice for businesses that need to share data, bandwidth-intensive applications, and network resources between their locations.

NLAN utilizes technology that is familiar, flexible, and has the ability to combine Quality of Service, restoration and high bandwidth into a single scalable, cost-effective Metropolitan Area Network solution. **tw telecom's** nationwide, high-performance fiber network ensures seamless connections between all your business's locations.

Take Your LAN Across the Metro

Since most enterprises deploy Ethernet LANs at each of their locations, it makes sense that the networks carrying traffic between LANs reflect the enterprise architecture. Extending the corporate LAN over the metropolitan area represents a natural network solution.

Businesses require a metro solution that combines the attractive features of legacy technologies (restoration and high bandwidth) with the benefits of Metro Ethernet (low cost, technological familiarity, and scalable bandwidth).

Our protected service helps to assure delivery of your valuable traffic. Native LAN lowers your costs, and enables installation with minimal disruption to your existing network.

tw telecom also provides additional services directly from our Native LAN platforms. These include Internet and voice services.

With **tw telecom's** Native LAN, you can choose from a variety of platforms, connectivity options and classes of services:

- Elite NLAN
 - Point-to-Point
- Switched NLAN
 - Point-to-Point
 - Point-to-Multipoint
 - Multipoint

Business Benefits

Familiarity: Ethernet is a technology that your staff already knows and understands.

Scalability: From 2 Mb to 10 Gigs.

CPE Flexibility: Minimizes the need for a customer router to map customer traffic to legacy frame Relay and ATM protocols.

Efficient Bandwidth Utilization: Ensure peak performance of applications that are competing for the same network resources by prioritizing traffic with up to 5 classes of service on Switched NLAN

Control and Visibility: View bandwidth utilization and class of service data via **tw telecom's** powerful on-line portal.

Cost Effectiveness: Lower per Megabit bandwidth cost compared to legacy services.

Ease of Interworking: Reduce configuration requirements with simpler service provisioning and activation.

Business Features

Comprehensive Ethernet Product Suite

- Multiple platforms and protections that cater to all application needs.

Access Multiple Services from the Same Platform

VLAN Tag Service Options

Wide Footprint



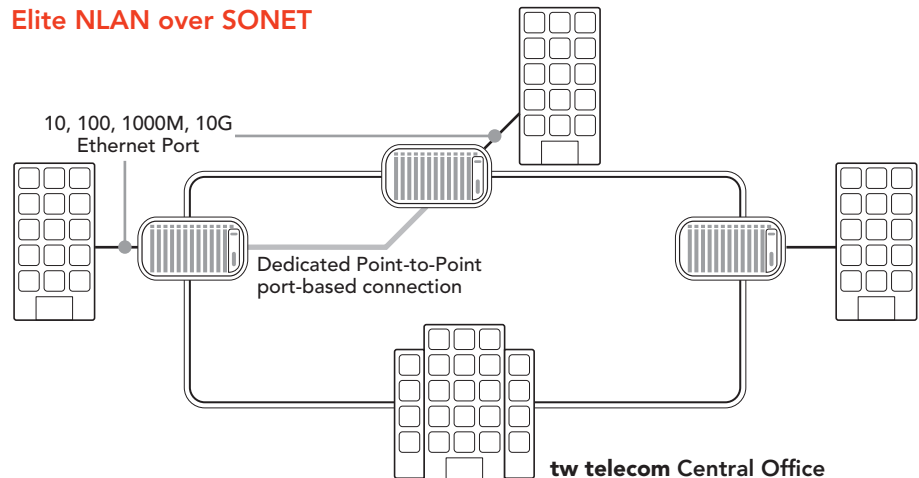
tw telecom's 10 Gigabit and Fractional 10 Gigabit Business Ethernet Services are Metro Ethernet Forum (MEF) certified for standards 9 and 14.

Elite NLAN

Point-to-Point Connectivity

- Connect any two locations within a **tw telecom** market
- Dedicated full-duplex 10M/100M/1000M/10G service via IEEE Standard Ethernet Services
- We deploy, manage and own the platforms at your location
- Network Protected Service
- VLAN and protocol transparency

Elite NLAN over SONET



Switched NLAN

Switched NLAN (SNLAN) uses Ethernet switches interconnected with 1G and 10G rings. You receive dedicated access, via a standard IEEE Ethernet port, to a shared, **network-protected** infrastructure. SNLAN can be deployed as Point-to-Point, Point-to-Multipoint, and Multipoint.

Class of service options allow traffic to be prioritized based on the specific needs of your applications.

Multiple customers ride the Ethernet ring and share the available bandwidth. Each customer's traffic is uniquely identified and securely separated across the shared network through the use of VLAN tags. For customer tagged Ethernet traffic, you have two options:

- **Unlimited Tag Service (UTS):**
Transparently transport as many VLAN Tags and any VLAN Tag numbers desired across the TWTC network at any time.
- **Individual Tag Service (ITS):** Pay per tag to transport across the network.

Switched NLAN General Architecture

