



CASE STUDY

NYC Transportation Infrastructure

DIA, 4G LTE & MPLS



Challenges

Complex, Multi-Location Deployment:

Large-scale, multiphase network rollout across hundreds of locations, each with unique connectivity and infrastructure requirements.

Mission-Critical Reliability & Redundancy:

Required highly available, secure connectivity with redundant circuits and backup solutions to minimize downtime and maintain uninterrupted operations for critical transportation systems.

Challenging Installation Environments:

Outdoor installations requiring specialized, ruggedized equipment capable of withstanding harsh environmental conditions without compromising performance.

Competitive Pricing & Proven Expertise:

Needed a cost-effective solution without sacrificing technical expertise, carrier relationships, or responsive support.

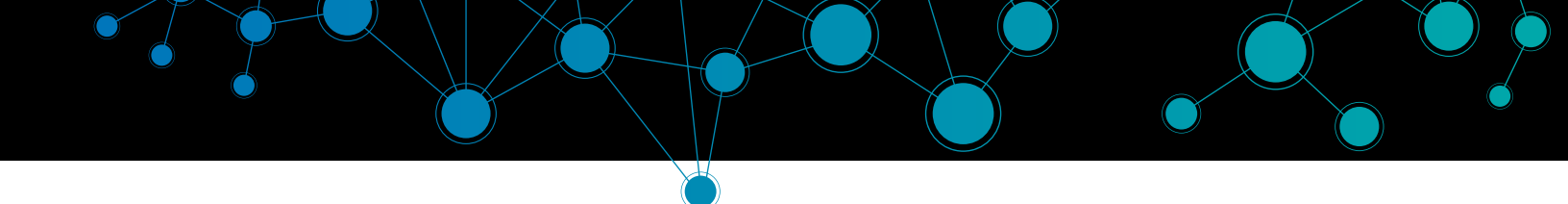
About the Customer

Our customer is a global leader in electronic tolling and intelligent transportation systems supporting New York City's Metropolitan Transportation Authority (MTA). The contractor was in need of a reliable, secure, and scalable network to power the critical infrastructure of North America's largest public transportation network. Responsible for automated tolling systems, infrastructure maintenance, and technology supporting the Central Business District Tolling Program, the organization required a technology partner capable of delivering high-performance connectivity across a complex, geographically dispersed environment.

Telesystem's Solution

With a multiphase deployment spanning hundreds of locations, the customer needed more than basic internet access. Network resiliency, consistent performance, specialized equipment, and responsive support were essential to keeping mission-critical systems connected and operational.

After evaluating several providers, including larger, nationally recognized competitors, the organization selected Telesystem for its competitive pricing, strong relationship with Verizon, and the technical expertise and responsiveness demonstrated throughout the sales process.



The first two phases encompass 91 locations, with additional expansions in later phases.

Phase One included two data centers with redundant circuits and nine additional sites equipped with **Dedicated Internet Access (DIA)** and **pooled 4G LTE connectivity**. Telesystem's DIA solution delivers dedicated, symmetrical bandwidth, built-in DDoS protection, and a 100% network uptime SLA, providing the reliable performance essential for critical applications. LTE connectivity adds another layer of resiliency, providing an alternate connection if the primary service is disrupted.

Phase Two expanded the network to two additional data centers with **redundant circuits** and 79 sites utilizing **DIA and MPLS** connectivity. MPLS enables private, predictable connectivity between locations, supporting efficient data transmission and consistent application performance across the distributed infrastructure. Redundant data center connections further reduce single points of failure and strengthen overall network availability.

Because many installations were located outdoors, Telesystem's engineering team also sourced specialized **ruggedized networking equipment** designed to withstand demanding environmental conditions while maintaining reliable connectivity.

The result is a secure, resilient, and scalable network architecture engineered to support critical transportation operations. Backed by Telesystem's 24/7/365 U.S.-based support, nationwide connectivity expertise, and commitment to customized solutions, the customer gained a trusted partner capable of navigating complex deployments while supporting future expansion.