

From Indoor Coverage Gaps to Carrier-Grade Enterprise Connectivity

AMBITION

A leading North American telecommunications provider sought to close a critical gap in the 5G experience: indoor connectivity. While customers benefited from expanding outdoor coverage, enterprises operating from offices, healthcare facilities, campuses, warehouses, retail locations, and commercial buildings continued to face inconsistent connectivity due to dense construction and signal penetration challenges.

The provider needed a scalable indoor 5G solution that could extend carrier-grade cellular coverage into environments where macro networks struggled to reach, without requiring customers to redesign existing network infrastructure. The solution also needed to support centralized management, enable repeatable deployments across locations, and provide a foundation for future enterprise connectivity services.

ACTION

Wipro Engineering – Connected Services partnered with the network provider to deliver an end-to-end, design-to-manufacture platform that became part of their enterprise connectivity portfolio.

Wipro delivered:

- Zero Touch Provisioning
- Complete Network Integration with multiple Cores
- A TR-069-based Network Management System enabling centralized visibility, monitoring, and control.
- Support for up to 20 network slices, enabling tailored connectivity for enterprise and industry-specific use cases.
- One partner. From design to launch-ready product.

AMBITIONS REALIZED

The solution enabled the provider to expand its enterprise connectivity portfolio with a scalable indoor 5G offering designed specifically for locations where traditional cellular coverage struggles to reach. The platform supports repeatable deployment across diverse environments while providing centralized operational visibility and carrier-grade performance.

The Business impact:

- **Extended 5G into hard-to-reach indoor spaces:** Delivered reliable connectivity across offices, healthcare facilities, retail sites, campuses, warehouses, and commercial buildings.
- **Centralized network visibility and management:** Simplified monitoring and operational oversight across deployments.
- **Scalable architecture for multi-site growth:** Enabled repeatable deployment across new enterprise locations.
- **Advanced Network Services Ready:** Supports up to 20 network slices for secure, prioritized, and application-specific connectivity.
- **From Product Concept to Commercial Launch:** Streamlined commercialization through a single partner accountable for engineering, certification, manufacturing, and deployment.

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