TECHLINK
THE PROFESSIONAL INSTALLERS NETWORK

CASE STUDY | 5G CONNECTIVITY

The Right Tools Cut 5G Install Labor 30–40%

The right signal survey tools helped a national 5G provider deliver reliable in-building coverage while cutting labor time.

30–40%
Less survey labor on large commercial sites

All Carriers
Bands and frequencies captured in each survey

Near Zero
Human error in cellular surveys

The Client

A national 5G internet provider bringing fast, reliable connectivity to shopping malls, office buildings, airports, and other large commercial structures.

The Challenge

5G signals transmit at higher frequencies than 3G and 4G, so they have a harder time penetrating brick, metal, and concrete. Inside complex structures, routers often could not connect reliably to nearby towers, and signals could weaken or drop.

The TechLink Solution

- **Exterior antenna and base station.** An outside antenna receives the tower signal and feeds a base station that amplifies and distributes it inside.
- **Full signal survey.** Every carrier, band, and frequency is measured throughout the building.
- **Cellular Network Scanners.** TechLink purchased Wilson Electronics scanners to speed up measuring, mapping, and optimization.
- **Cable loss testing.** Individual cables are tested to catch deficiencies before they cause return visits.

The Results

- **30–40% less labor** for survey tasks on large sites.
- **Less engineering overhead** with reports that export as .csv files.
- **No guesswork** on the best carrier and signal choice.
- **Higher customer satisfaction** from a reliable data experience.

01 Survey — 02 Measure — 03 Design — 04 Install — 05 Optimize

> **"With the Cellular Network Scanner we have seen virtually no human error when surveying for cellular service and that has translated to the right product design decisions to be made and implemented on-site with minimal on-site labor."**
>
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