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and protect the world.

Space Optimization Use Case: **Zone Architecture**

Financial Services Company Depends on Utility Grade Infrastructure (UTG) to Help Build Their Workplace of the Future

When a national financial services company set out to build their vision for the workplace of the future, they were faced with technical hurdles, organizational and operational challenges. With their sights set on an IoT-enabled environment utilizing intelligence for improved experience and efficiencies, the company realized they had a lack of corporate technology standards and inadequate communication between the information technology (IT) stakeholders and the operational technology (OT) stakeholders. When assessing these technology and business challenges, they relied on Wesco to help develop a next generation corporate standard utilizing UTG as a comprehensive building system.

Zone Architecture and Extended Distance to Improve Space Utilization

With no organizational standards in place, this financial services company struggled with allocating their square footage and sizing their environments to support today's use while remaining scalable. As a greenfield construction project, it was essential to bridge the gap between IT and OT to build this model facility for the future. The customer's desired outcome would utilize technology to provide seamless connectivity to employees and infrastructure resiliency to both the business systems and experience systems, utilizing an all-IP and PoE infrastructure. This would ensure supporting intelligence across subsystems while providing visibility, management and efficiency to better operate their built environment. Central to this "fully-connected" strategy was utilizing an active zone network architecture with the extended distance capabilities of Utility Grade Infrastructure to improve overall space utilization.

UTG meets and exceeds the standards providing 50% longer reach with ProLabs while defining guaranteed results

Utility Grade Infrastructure

Summary

Customer

- Financial services company

Challenges

- Build an IoT-enabled office environment
- No corporate infrastructure standards
- Accelerated construction schedule
- Improve overall space utilization

Solutions

- ProLabs transceivers
- MSA-compliant switch with hot-pluggable SFP interface
- UTG20 cable infrastructure

Results

- Leveraged an IP infrastructure for a converged IoT network
- Defined next generation standards nationally
- Reduced construction cost and time
- Reallocated available square footage



Ingenuity delivered.

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Leveraging the Potential of ProLabs and Utility Grade Infrastructure

The way we inhabit buildings has changed and will continue to change dramatically. Health and safety is accelerating the adoption of IoT, and leading organizations are placing scrutiny on how their networks are designed, emphasizing the need to support more technologies on a common platform, while also improving efficiency and cost savings. Pairing ProLabs copper transceivers with Utility Grade Infrastructure gave the customer the ability to extend the active zone to serve a larger area with the potential of reducing or eliminating telecommunications rooms. Additionally, Wesco helped the customer reduce construction cost and time, as well as free up square footage that can now be reallocated to meet their business needs.

UTG Proof of Concept Testing

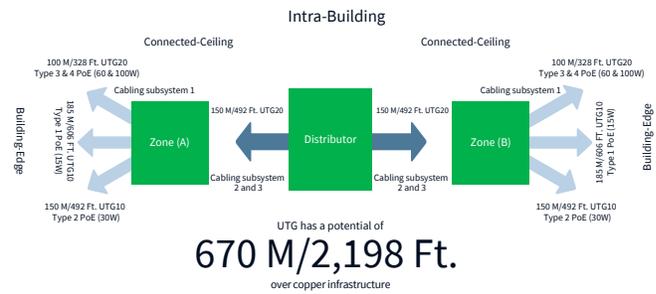
The Utility Grade Solution

Wesco's Infrastructure Solutions Lab and UTG Convergence Partner, ProLabs, have developed proof of concept testing for converged system interoperability. This solution includes UTG-rated cable infrastructure and ProLabs transceivers that can deliver extended distance performance for space optimization. For a full set of UTG-recommended optical fiber solutions, reach out to your local Wesco representative.

UTG Convergence Zones

- Building-Edge
- Connected-Ceiling
- Intra-Building

Extended Reach With ProLabs Transceivers Over UTG20



Proof of Concept Test Bed



UTG Rating



UTG Difference

- 1000 Base-T at 150 m/492 ft.
- 50% longer reach over standards
- Extends UTG reference architecture by an additional 100 m/328 ft.
- MSA-compliant 10/100/1000Base-TX SFP transceiver
- Proprietary coding available
- 100% factory tested
- Advanced replacement warranty
- Guaranteed performance and interoperability
- Maximize your return on infrastructure investment

Wesco has the expertise and insights to tackle complex projects for every smart environment. Utility Grade Infrastructure is our innovative solution to support smart building and IoT implementations that span every corner of the commercial building, parking facility and perimeter. Learn how we can power your results, Wesco.com.



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