CORNING

Everon™ Network Solutions

Why Go Wireless First?

Wired work environments are the way of the past.

A flexible, innovative network combining Wi-Fi and cellular for fast, reliable, and secure in-building connectivity is critical for your future success. Corning® Everon™ Network Solutions can make a Wireless First environment a reality for you.

Learn more about Corning Everon Network Solutions at **www.corning.com/everon**

Four Critical Steps to a Wireless First Environment for Your Building

A Wireless First environment puts the focus on your most important resource, people, letting you give them the flexibility they need to collaborate and access information throughout your building.

These four steps can set you on the path to building a Wireless First blueprint that's just right for your needs today and tomorrow. We followed these steps at our own Corning Optical Communications headquarters (HQ) to create a Wireless First experience for more than 800 employees.

1 Balance Wi-Fi and Cellular

Your employees' experience should be seamless no matter which device or connectivity source they're using.

HQ: We provide complete connectivity for both Wi-Fi and cellular throughout our facility. This ensures flexibility and reliability for devices that use either one or both types of signals.

2 Converge Existing Networks Across One Digital Backbone

Wireless First is an extremely flexible option that can easily support traffic beyond voice, data, and video, including property management systems. Consolidating into one digital backbone reduces the number of networks you need to build and support, minimizing upfront and management costs over time.

HQ: Our network combines Wi-Fi, cellular, video conferencing, access control, and security monitoring all on one optically based digital backbone.

3 Plan for Higher Download Speeds at the Network's Edge

To realize its full potential, Wi-Fi 6 needs 10 Gbps for each wireless access point (WAP). Wi-Fi 7, expected to deploy in 2023/2024, is projected to need 40 Gbps per WAP. Unlike traditional network architectures, Wireless First networks are designed to handle these demands with ease.

HQ: To make our building future-ready, we chose composite fiber cables. This cabling, which combines fiber for data with copper pairs for remote power in one sheath, gives us the bandwidth we need plus the power to support 40 Gbps+ to the edge of the network.

4 Use a Fiber Backbone To Support High Data Demands at the Edge

Wireless First eliminates most wired network connections, changing your aggregation needs from many lower bandwidth links to a few larger links. Switching solutions should be able to migrate to handle 10/40/100 Gbps speeds.

HQ: We used single-mode fiber to provide the most flexibility for the future. Single-mode fiber allowed us to collapse our backbone cabling into a simplified solution that moved all switching functions to one location, saving space and reducing complexity overall.

Six Reasons a Wireless First Network is Critical for Your Business

Wired work environments are the way of the past. A flexible, innovative network that combines Wi-Fi and cellular for fast, reliable, and secure in-building connectivity is key for your future success.

Savings Today and Tomorrow

With a streamlined network architecture, there's less equipment to install and maintain. You can see up to 30% total savings on materials and labor at installation and up to 50% on future upgrades. Plus, you'll save on valuable space, power, cooling, and ongoing tech support for day-to-day network maintenance and changes.

Bandwidth Demands

You'll get fast, reliable connectivity in every corner of your building today and be ready for essential, bandwidth-heavy applications, like 5G, IoT, and Wi-Fi 7 tomorrow.

Recruiting and Retention

Unwire your workforce and unlock more of their potential. After a year of cellular- and Wi-Fi-powered work-from-home, employees and tenants won't want to go back to the constraints of a wired environment, especially talent who have never been wired.

Green Buildings

Green building technology is good for people and planet, but it can be disastrous for cellular reception. Eco-friendly windows and building materials block all generations of cellular signal, but even traditional buildings can interfere with 5G. By including cellular in your network planning, you'll ensure customers and employees have access to the power of mobile connectivity throughout your building.

Smart Buildings

If you're thinking about overlaying smart building technology at your facilities, it's important to know that many of these technologies depend on wireless connectivity to transmit the data that keeps your building running at optimal efficiency.

Security

Network security is a constant concern. A Wireless First approach can boost network security at your facility while decreasing network complexity. That's because today's cellular and Wi-Fi systems are highly secure and have fewer physical access points, like computer ports, decreasing the opportunity for network intrusions.

Go Wireless First For Less Complexity With More Capability

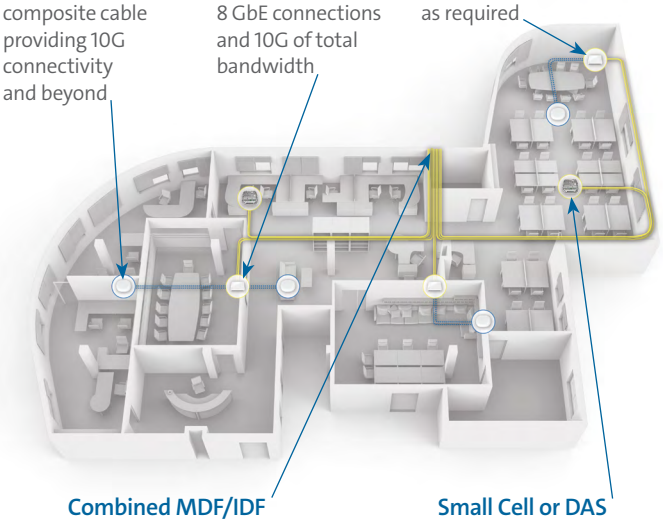
No matter how you look at it, freeing your building from wires is just good business. That's because a Wireless First network approach helps you reduce initial and lifetime costs while increasing security, flexibility, and user satisfaction.

FTTE Wireless First Design

Wi-Fi 6 WAP
connected using composite cable providing 10G connectivity and beyond

Access Nodes
supporting up to 8 GbE connections and 10G of total bandwidth

Fiber-to-the-Edge
enabling wired connections as required



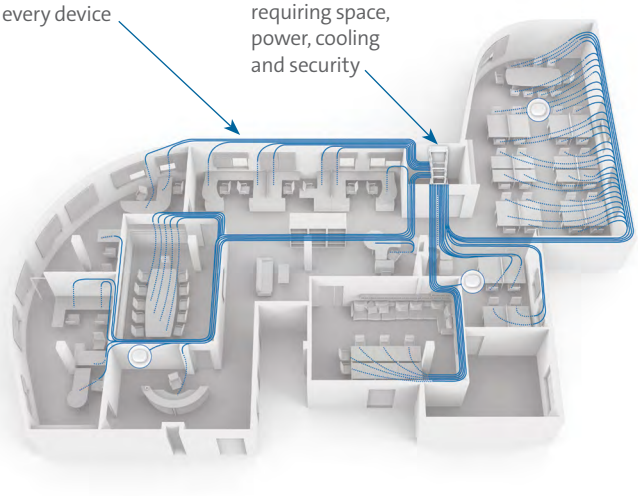
Combined MDF/IDF
location on bottom floor housing all rack-mounted equipment in one location, freeing up IDF space on each floor

Small Cell or DAS
radios providing 5G signal throughout the building floor

Traditional Copper Horizontal Design

Category Cable
connection to every device

IDF
on every floor requiring space, power, cooling and security



See Our Wireless First Headquarters

Get all the network infrastructure details for our own smart building **here**

How Can You Take Advantage of All the Benefits of a Wireless First Approach?

Corning® Everon™ Network Solutions were designed with a human-centric Wireless First workflow in mind. It can not only make your building a better, more productive place to work, but it can also improve security, plus save you money at installation and over the life of the network. Learn more and see it in action at our HQ at **www.corning.com/everon**

CORNING

Corning Optical Communications LLC • 4200 Corning Place • Charlotte, NC 28216 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/opcomm