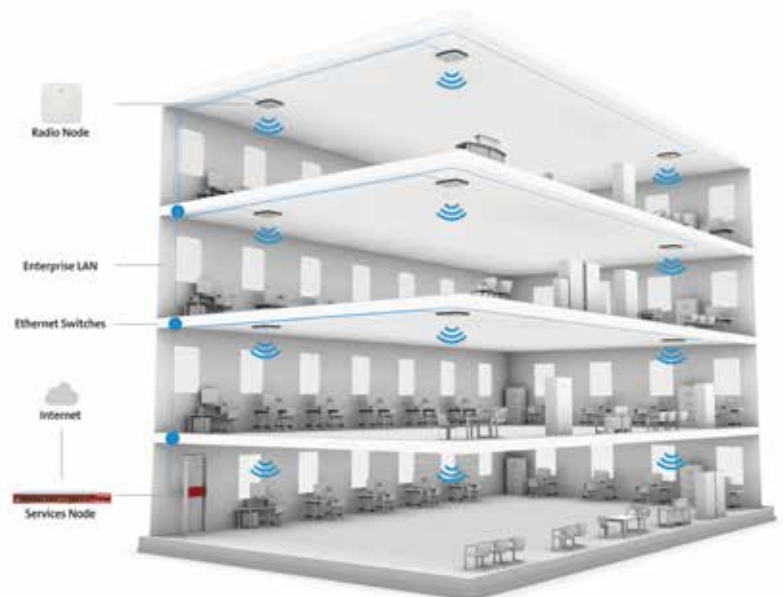# CORNING

Why Small Cell?
Corning SpiderCloud

SpiderCloud small cell solutions provide cost-effective, scalable coverage and capacity with deployment in weeks, with a simplified, Wi-Fi-like installation over the new or existing LAN infrastructure. Combined with Corning® In-Building Network Solutions, you now have access to a full-solution portfolio including fiber, remote power, software-defined LAN (SD LAN), small cell, and cellular DAS.

Driving fiber-deep architectures within the enterprise, our complete and comprehensive solution promotes and advocates for optical convergence.

Customer Profile

- Enterprise or smaller venue with in-building coverage challenges
- Building requiring coverage ranges in size from 50,000 – 1 million square feet, either single-structure, distributed facilities, or campus environments
- Initially requires one to two mobile network operators
- Has available capacity of 50-100 Mbps on existing internet connection

Alleviating Pain Points

PROBLEM	SOLUTION
Requires an affordable system	Provides a cost-effective, in-building cellular solution
Must be fast to deploy	Provides a quick-to-install, in-building cellular solution
Emergency call origination difficult to track	Enhances Public Safety, as callers can be found within 50 m of origin
Need flexibility to enable any one of the major U.S. mobile network operators	Equipped with approvals from most major U.S. carriers

Corning offers products to improve cellular coverage and capacity coverage in the most demanding enterprise environments. Corning solutions include:

SpiderCloud® enterprise radio access network (E-RAN)
Delivers high-capacity cellular signal

Corning® In-Building Network Solutions
A fiber-based network topology with the ability to converge multiple network services and a DAS to support multiple cellular providers over a single, simplified architecture.

Introducing the Enterprise Radio Access Network (E-RAN)

SpiderCloud E-RAN is a modular cellular network platform that delivers unprecedented coverage and capacity for wireless services inside any type of facility. It is scalable and enterprise-ready, with the ability to add more network carriers as demand arises. It can also be combined with the in-building network solutions system to create an all-fiber indoor-network backbone hosting the E-RAN and other network services without burdening the enterprise's own infrastructure.

What Is the Value of Combining SpiderCloud Small Cells and the In-Building Network Solution Infrastructure?

High-SIM density: Determined by connected devices per square foot, SIM density ranges from low (residential) to ultra high (stadium/convention center). The in-building network solutions system provides a robust infrastructure and virtually unlimited bandwidth for the SpiderCloud E-RAN and other network services that support an entire range of densities.

Multicarrier needs: Whether the targeted facility needs only two or all four of the major U.S. carriers, Corning cellular solutions can support any scenario.

Building size: Building size is no longer a factor in determining a cellular solution, and has been replaced in importance by network applications and carriers that support critical connectivity today.

For more information on how the Corning SpiderCloud solution can address the needs of your facility, please visit **www.corning.com/spidercloud.**