



CORNING

A Scalable Small Cell Solution that Delivers Big Results.

Simple Installation. Quick Deployment. Unprecedented Wireless Capacity.

Reliable wireless coverage has evolved from a want to a need for most enterprises, with capacity demands increasing every day. Accommodating the connectivity needs of employees, contractors, and guests requires a robust and secure in-building solution.

The Corning SpiderCloud® Wireless enterprise radio access network (E-RAN) can be installed over existing LAN infrastructure and deployed in as little as 90 days. It leverages scalable radio nodes to enable unprecedented cellular coverage and capacity through a secure IP/IPSec data connection – allowing you to meet and exceed your end-users' needs.

Optimize your network. [Learn more](#) about the Corning SpiderCloud solution.

FAQ

What is an enterprise radio access network (E-RAN)?

The E-RAN system is made up of one services node that manages the radio nodes (access points) throughout the building that are attached to it. All radio nodes are powered by Ethernet, which makes them easy and quick to install.

How does the E-RAN system work?



PoE+ powered radio nodes install on ceiling or wall



Radio nodes connect to services node over Ethernet LAN

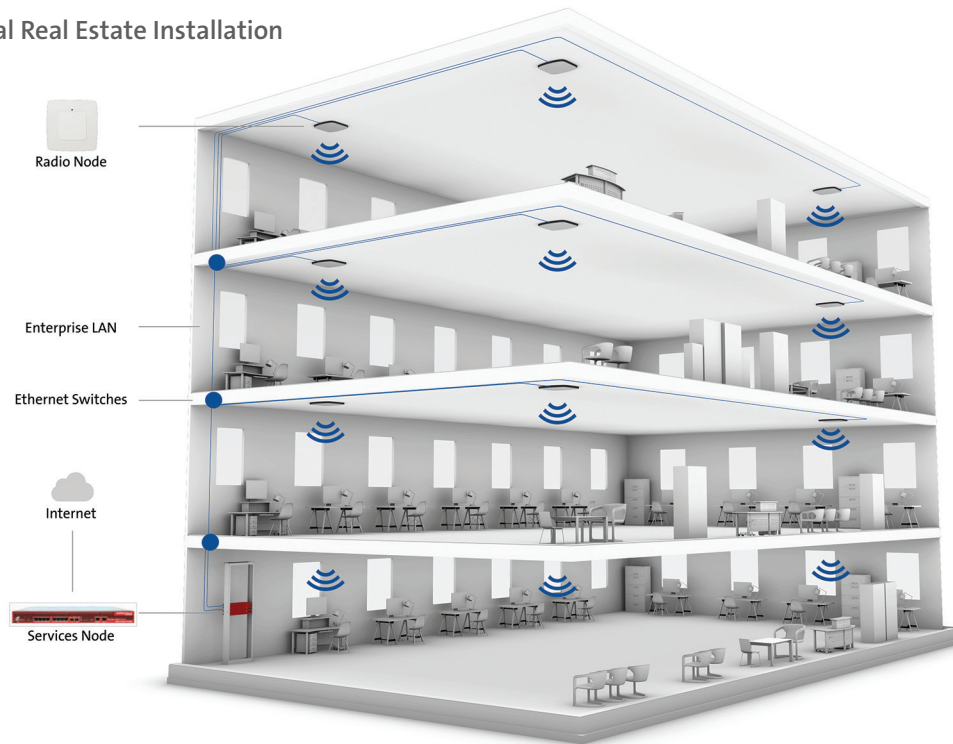


Services node connects to operator network over internet



Reliable cellular coverage and capacity inside buildings

Typical Commercial Real Estate Installation



What are the Enterprise IT requirements?

Ideally, IT creates a private VLAN on the existing Ethernet network to deploy the system. New cabling (CAT 5e/6) may be required to connect the radio nodes to the nearest telecom closet. The services node installs in the main enterprise telecom closet.

Does E-RAN, using a private VLAN, require connections to the enterprise IT production network?

No. Layer 2 or layer 3 connections to the enterprise IT data network are not required.

Are Ethernet ports needed?

Yes. For each floor where the radio nodes are to be installed, a matching quantity of PoE+ (802.11at Power over Ethernet) ports are required to be allocated to the private VLAN.

Does the E-RAN require the use of or access to enterprise network IP addresses or services?

No. The E-RAN system does not connect to the enterprise IT production network. The E-RAN services node provides the IP addresses and infrastructure services required by the radio nodes.

What about the clip-on for Cisco Wi-Fi APs?

The clip-on Radio Node simply attaches to the module port on the rear of a 3600/3700 AP.

What type of backhaul does the E-RAN Services Node require to connect to the operator?

E-RAN installations share the enterprise's internet backhaul to connect the services node to the operator's mobile core network.

Does the E-RAN require access to a wide-area network (WAN)?

In cases where some radio nodes are installed in nearby buildings, they can connect to their remote services node over an existing IP wide-area network connection.

Do you need to install equipment in your data center?

The services node can be installed in either the main telecom closet or the enterprise data center. It requires 1RU (1.75-in high) of space in an equipment rack.

What happens if a server or attached corporate device is accidentally patched across to the E-RAN VLAN?

Nothing, the E-RAN is a closed environment that only recognizes its devices and ignores all others.

CORNING

Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/opcomm

Corning Optical Communications reserves the right to improve, enhance, and modify the features and specifications of Corning Optical Communications products without prior notification. A complete listing of the trademarks of Corning Optical Communications is available at www.corning.com/opcomm/ trademarks. All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified. © 2018 Corning Optical Communications. All rights reserved. CMA-657-AEN / September 2018