

WIRELESS MOBILITY



WI-FI

A Wi-Fi solution allows you to extend your corporate Ethernet network wirelessly for employees, customers and visitors, supporting both corporate-owned and guest devices.

COMPONENTS OF YOUR COMPLETE WI-FI SYSTEM

Controller	Allows a network with multiple access points and/or locations to be managed as a single network.
Power over Ethernet (PoE) Switch	Provides power and data connectivity to the access point.
Access Point	Radiating device that connects the computer or mobile device to the network.
Enclosures and Mounts	Secure and aesthetically pleasing ceiling tile boxes, wall boxes and mounts that protect the access points.
Category 6A Cable	Provides the necessary connectivity from the switch to the access point for the high data throughput requirements.

COMMON CHALLENGES



Managing network **DENSITY**



Escalating **BANDWIDTH** requirements



Evolving **WI-FI STANDARDS**



Supporting employee and **GUEST DEVICES**

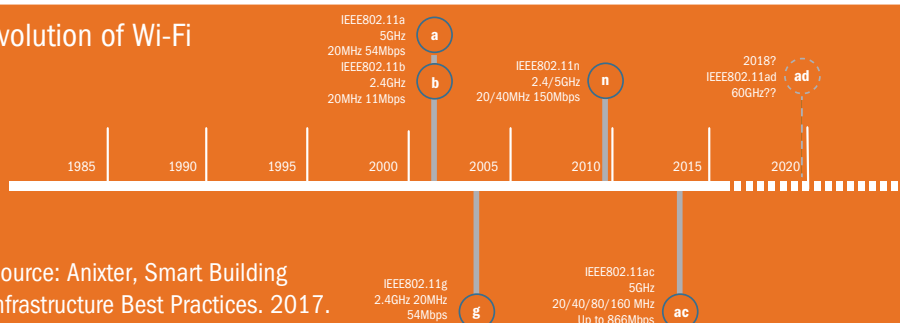


Protecting against **DATA LOSS**

WE ADD VALUE BY ENABLING:

Technology Selection	Systems Interoperability	Project Deployment
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Evolution of Wi-Fi



Source: Anixter, Smart Building Infrastructure Best Practices. 2017.

TECHNOLOGY SOLUTIONS



Network density

As users are connecting multiple devices to the Wi-Fi network and Wi-Fi technology works at higher frequencies, more access points must be added in the ceiling to handle the increasing traffic.



Bandwidth requirements

Running two or more Category 6A cables to each access point allows for enough bandwidth to be backhauled from the access point to the switch, enabling your Wi-Fi network to handle increased bandwidth demands.



Wi-Fi standards

Wi-Fi standards change every few years. Using the highest quality backhaul, Category 6A cable, will help future-proof current installations as they evolve to future generations of Wi-Fi.



Employee and guest devices

Many employees and visitors bring their own smart phones, tablets and laptops, expecting Wi-Fi connectivity. A partitioned guest network will provide access while maintaining security for the corporate network.



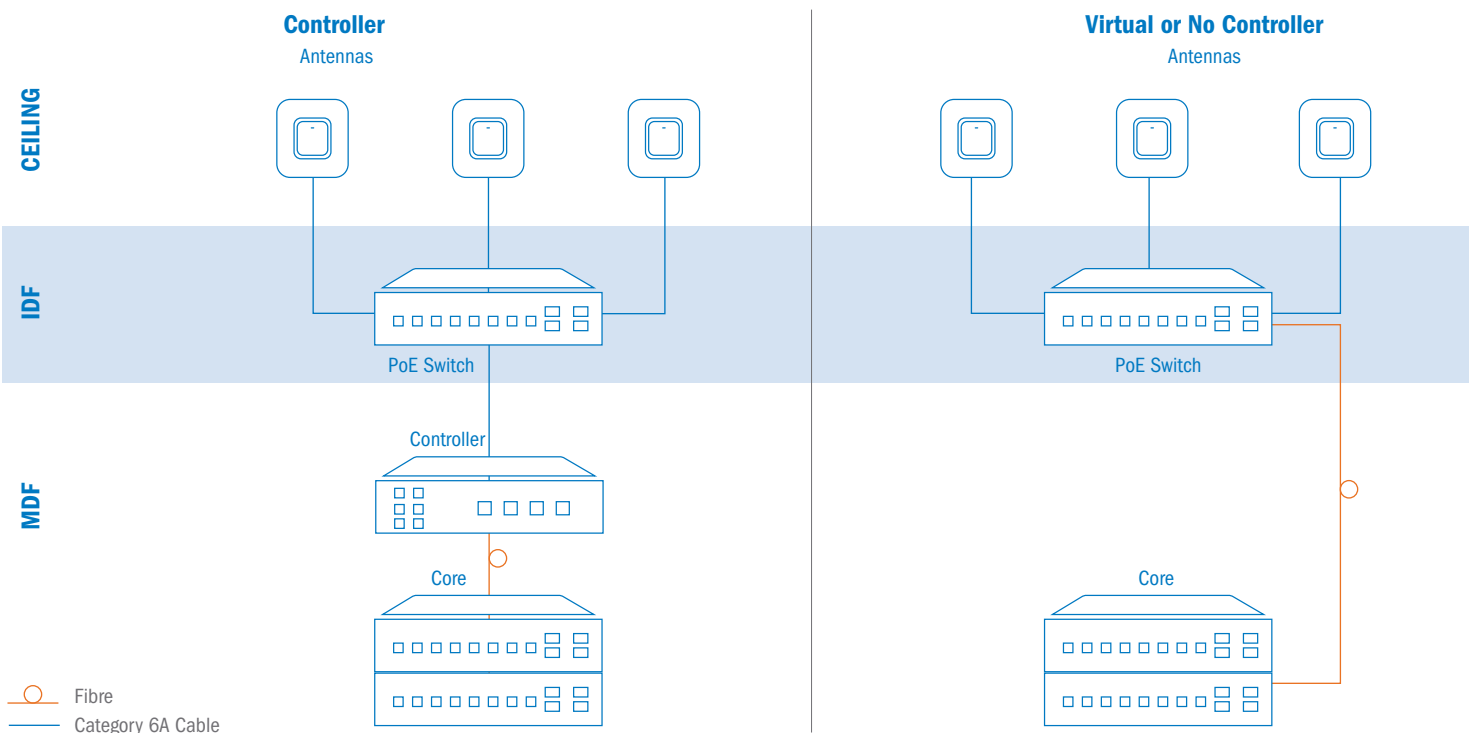
Data loss

Secure wall-mounted or ceiling grid enclosures for APs can prevent vandalism and unauthorised access to the corporate network. This is important in healthcare and educational facilities as well as the enterprise.

CONCEPTUAL SYSTEM LAYOUT

Wi-Fi solutions supplied by Anixter

For system integration and installation, we recommend working with a certified wireless integrator or contractor.



Note: Layouts do not show necessary power systems.

FOR MORE INFORMATION VISIT [ANIXTER.COM/WIRELESS/EMEA](https://www.anixter.com/wireless/emea) OR CONTACT YOUR LOCAL ANIXTER REPRESENTATIVE.

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