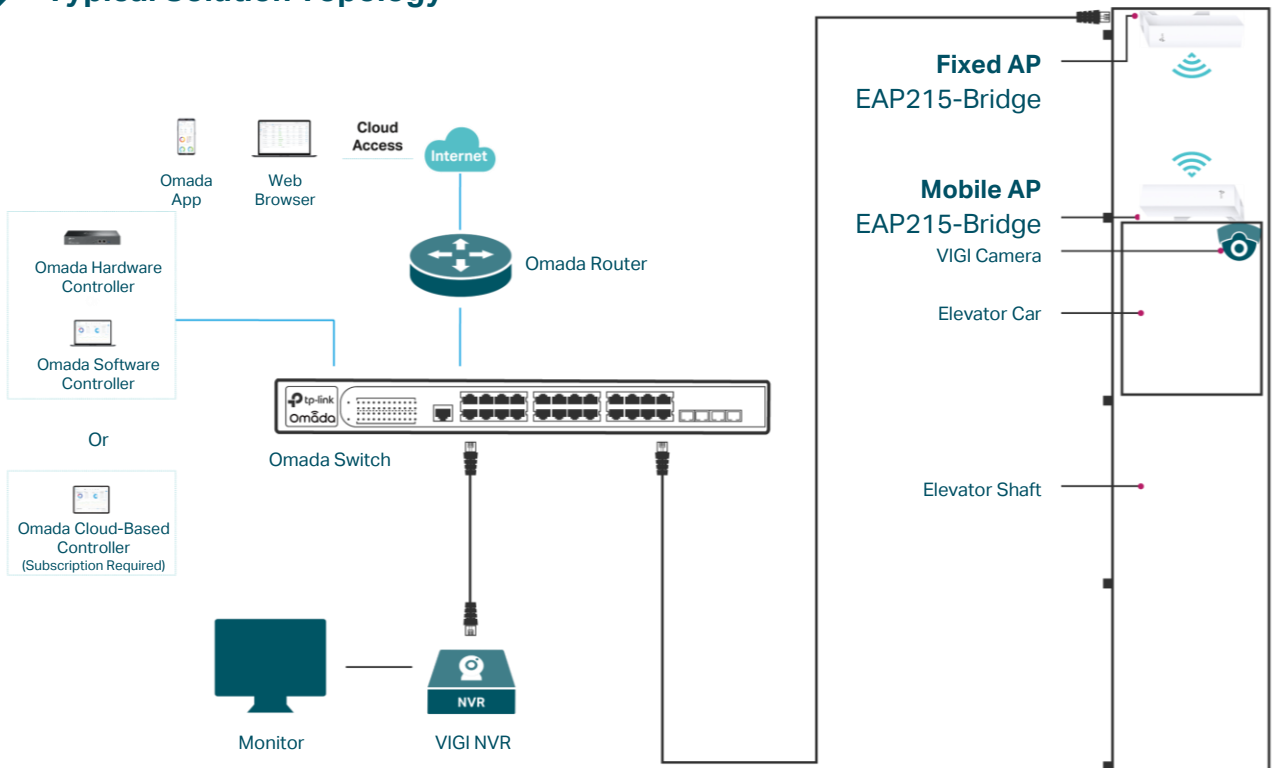# Wireless Networking for Elevators

For any business in a multi-story building, ensuring elevators are connected to the network can be critical for applications like video surveillance and digital signage. Traditionally, solutions like high-tension Ethernet cables—running from either the top or bottom of the elevator shafts—are used to accomplish this. But this method has some significant drawbacks: Construction must allow for these cables; installation is more intensive; and eventually, the cabling will break due to normal wear and tear.

To mitigate these issues, TP-Link Omada offers a solution: a wireless point-to-point link delivering throughput up to 867 Mbps. Wireless coverage extends to the entire shaft to connect surveillance cameras or digital signage directly to your network. Record real-time video to an NVR with virtually no hard wiring required, leaving no cables to wear out.

❯ Typical Solution Topology

❯ Product Recommendations

2K+ Camera Surveillance Solutions					
Models	**Frequency**	**Max Wi-Fi Speeds***	**Ethernet Ports**	**Power Supply**	**Max Range***
EAP215-Bridge KIT	5 GHz	867 Mbps	3× 1G	Passive PoE and DC	5 km+

HD Camera Surveillance Solutions					
Models	**Frequency**	**Max Wi-Fi Speeds***	**Ethernet Ports**	**Power Supply**	**Max Range***
EAP115-Bridge KIT	5 GHz	300 Mbps	3× FE	Passive PoE and DC	5 km+

*Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. The max ranges of products are tested in real outdoor environments. Actual range and throughput are not guaranteed and will vary as a result of network conditions, and depend on the transmission power and environmental factors such as wireless interference, obstacles, weather, etc.

1. COST-SAVING WIRELESS TRANSMISSION WITH EASY SETUP AND INSTALLATION

• **Easy, Flexible Installation** — Eliminate the limitations of traditional cable transmission distance and the construction requirements for cable deployment in elevator shafts.

• **No Complex Cabling** — Wireless transmission ensures cable wear and tear is no longer a concern. Physical deployment costs are reduced due to fewer required physical installations as well as reduced construction costs.

• **Auto-Paring** — Automatically establishes a network when a gateway is configured and access points are powered on, avoiding complex setups.

• **Agile LEDs for Quick Deployment** — Flexibly adjust your wireless bridges' position and angle following the LED signal strength displays for optimal reception after auto-paring.

• **Flexible DC and Passive PoE Power Supply** — Passive Power over Ethernet support allows for flexible deployment and convenient installation.

• **Reliable Quality with Low Maintenance** — TP-Link's high product quality ensures maintaining your wireless elevator system is as easy as possible.

2. EASY MANAGEMENT SIMPLIFIES OPERATION

• **Unified Network Management** — Centrally manage access points, switches, and routers—all controlled from a single easy-to-use interface.

• **Multi-Customer and Multi-Site Management** — Manage multiple building sites without switching controllers under Managed Service Provider (MSP) Mode. Easier to check and manage multiple sites with a more well-organized management structure.

• **Customized User Management Permissions** — Multi-user privilege assignment is available to increase management efficiency and security. Multi-person management, multi-level permissions, and the ability to add admins as needed enable flexible network operation and maintenance.

3. HIGH-SPEED AND STABLE WIRELESS CONNECTIONS TO MEET THE NEEDS OF ELEVATOR MONITORING

• **Wi-Fi Speeds Up to 867 Mbps** — Ensure video monitoring and other data-intensive functions remain optimal.

• **Stable Connections at High Speeds** — Real-world use has proven that Omada wireless bridge products deliver stable transmissions and smooth video even when elevators rapidly run between floors.

• **Long-Range Video Transmission** — TP-Link Omada wireless bridge products easily relay HD video from elevator surveillance cameras thanks to extensive features that ensure robust long-range transmission.

• **Weatherproof for Elevator Use** — IP65-rated waterproof and dustproof casing fully protects your network data from prolonged exposure in elevator shafts.

❯ Omada Deserves Your Trust

Better Support

We are available for you — call, email, chat, and visit the community with your pre-sales, post-sales, and installation questions.

- ✓ Localization Support Teams
- ✓ Official Omada Community
- ✓ Dedicated Omada Support
- ✓ Certification and Training

Extended Product Warranties

- ✓ 5-Year Product Warranty in the US region*

*Applicable to Omada products in the US region. Certain products have a 2-year warranty. Go to https://www.tp-link.com/us/support/replacement-warranty/ for details. Warranty may vary between regions/countries.

Vertical Integration and Stable Supply

- ✓ A Genuine Manufacturer with vertically integrated supporting facilities ensures complete quality, cost control, and high-level manufacturing, enabling better value than traditional OEM's
- ✓ Controls the cycle time and improves production efficiency
- ✓ Local warehouse for sufficient local stocks and fast delivery*

*Applicable to the US region and may vary between regions/countries.

A Best-In-Class Total Value

- ✓ A Best-In-Class Total Value means reliable industry-standard solutions, comprehensive services, better support, and competitive pricing
- ✓ World's No. 1 Wi-Fi Product Provider for 12 consecutive years*
- ✓ Over 20 years of product testing and manufacturing have built our hard-earned reputation for reliability

*Source: IDC Worldwide Quarterly Wireless LAN Tracker, Q4 2022 (claim based on worldwide shipments).