

Hardworking Wi-Fi for a hardworking transportation industry

Alcatel-Lucent OmniAccess Stellar WLAN solution for transportation

Next generation Wi-Fi for next generation transportation

From rail to road, sea to air, the traveler experience has become an important consideration in decisions made for the transportation sector.

Wireless connectivity plays a huge role in boosting that experience. From status updates sent to a traveler's mobile device to automated ticketing, check-in, safety and security. Travelers are used to being able to connect from almost anywhere, and this must extend into the transportation experience.



OmniAccess Stellar AP1361 outdoor Wi-Fi 6 access point

Smart connected machines, such as automated ticketing kiosks, are maximizing efficiencies and improving the traveler experience. Transportation staff are more mobile and better connected, while lone workers, such as maintenance crews, can be better protected with extended WLAN connectivity.

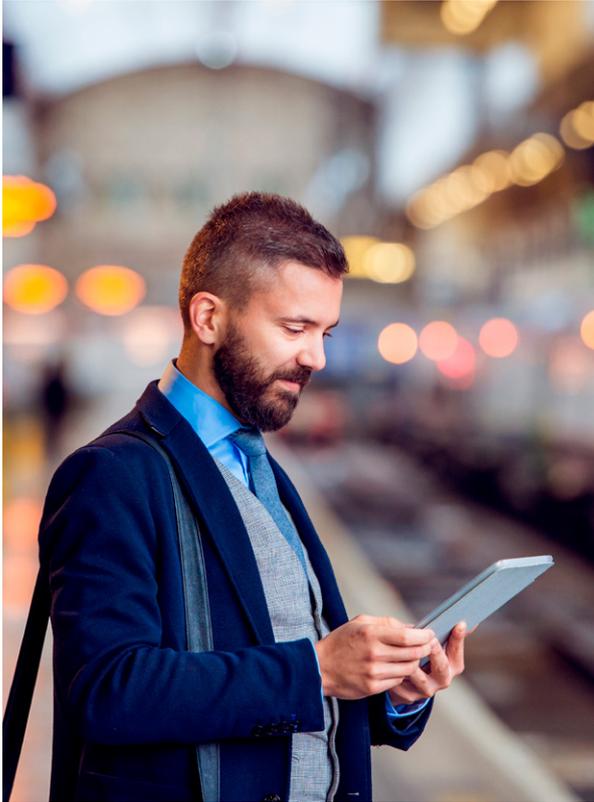
But all this connectivity is maxing out traditional network infrastructures – and the demand is only going to grow. With every connection, and every smart connected machine, comes a gateway for a potential cyberattack.

It's why reliable, secure and high-performance Wi-Fi is moving to the top of the agenda for transportation. It must deliver connectivity and mobility that the staff needs and also the end-to-end, connected experience that customers and travelers expect.

The Alcatel-Lucent OmniAccess® Stellar WLAN solution which now includes Wi-Fi 6 access points, meets these demands and more. Its next generation access points deliver enterprise-grade connectivity, with operational simplicity and manageability – creating a new paradigm in wireless networking that's efficient, secure, simple and affordable. And with our local, personalized approach, a tailored solution can be built to suit any transportation authority looking for WLAN.

The OmniAccess Stellar WLAN solution offers indoor and outdoor access points that deliver:

- **Simplicity:** High-speed Wi-Fi with optimal radio coverage, yet simple to deploy and scale
- **Performance:** Distributed intelligent architecture for better performance and high availability
- **User centricity:** Easy to connect to, excellent quality and secure user experience for travelers and staff
- **IoT readiness:** Unique IoT containment technology, securely and automatically connects to any Wi-Fi device
- **Analytics capability:** Smart analytics monitor and control applications, to help manage and drive strategic business decisions
- **Unified management:** Native unified access for LAN and WLAN with a cloud enabled management¹ that guarantees the best quality of service
- **Evolution:** Future-proof solution built on the latest technologies, innovations and services



Built for efficiency

With the OmniAccess Stellar WLAN solution, travelers and visitors can connect wherever they are around the station, airport or port. Staff can also stay connected as they move around - keeping them safe and productive. The enterprise-grade solution supports multiple access points, managed from a single interface. Smart device networks, such as those connecting CCTV or IP TV, can all be managed from the same interface.

- Distributed controller architecture
- Unified Policy Authentication Manager (UPAM)
 - Secure authentication of employees and guests
 - Guest access - self registration, employee sponsored login, authentication through social login
 - Intent based policy enforcement
 - Extensive captive portal customization
- Simplified management of access groups
- Up to 256 access points in a cluster in Stellar Express (32 or 64 for clusters managed by AP1101, AP1201 or AP1201H) and up to 4000 access points in Stellar Enterprise*

Built for security

Transportation networks exchange masses of data - from signaling systems, to traveler connectivity and apps, to staff devices and connected machines. And every new app, personal device, or IoT deployment, creates a new gateway for a potential cyberattack.

With OmniAccess Stellar WLAN solution's IoT containment capability, transportation organizations get simplified deployment and configuration plus dramatically more secure network architecture to protect against cybercrime.

Using a secure, simple, distributed environment, separate contained network areas can be created that are only accessible by compliant devices. For example, travelers and staff have separate networks. Connected machines and security systems can be kept on separate networks too, in case of compromise. The OmniAccess Stellar WLAN solution security features include:

- Secure network access control (NAC) with [Unified Access](#) technology
- [Smart Analytics](#) application monitoring and enforcement
- UPnP/Bonjour service sharing



OmniAccess Stellar AP1321
indoor Wi-Fi 6 access point

Built for simplicity

The OmniAccess Stellar WLAN line is designed to enable automatic on-boarding of smart and IoT devices to enhance the connected traveler experience, wherever people are on their journey. Features include:

- Automated deployment and integrated with [Alcatel-Lucent OmniSwitch®](#)
- Policy-based Bonjour/UPnP management
 - Discovery of service devices
 - Rules created based on:
 - Location
 - User group
 - Identity
- Automatic and secure configuration into the correct network profile
- Available on wired and wireless devices (Note: When used with the Alcatel-Lucent Enterprise LAN solution)

Built for affordability and low TCO

The OmniAccess Stellar WLAN product line is designed to be affordable, with a low TCO thanks to its simple management features and built-in intelligent capabilities.

- Secure web management portal
- Wizard configuration tool
- Traveler captive portal
- Distributed RF for automatic intelligence optimization
- Smart load-balancing - intelligent connection to best APs
- Self-healing - dynamic coverage adjustment to counteract access point failures
- Easy to scale - automatic management of new access points

To find out more about the Alcatel-Lucent OmniAccess Stellar WLAN solution visit www.al-enterprise.com/en/stellar-mobility-wifi

Connected Transportation

Where your customers connect for the best transport experience.
Where you connect securely for speed, comfort and safety.
Where your transportation infrastructure connects to enhance
communications, security and efficiency.

