



# Reliable and secure Wi-Fi for hardworking public sector organizations

Alcatel-Lucent OmniAccess Stellar WLAN solution for government

# Next generation Wi-Fi for next generation public sector services



The citizen experience has become an important consideration in decisions made by governmental organizations. Capabilities such as secure, responsive public services, improved emergency response systems and wireless connectivity play a huge role in improving that experience. From air quality alerts sent to the public via mobile devices to real-time wayfinding signage for indicating emergency evacuation routes, the public is used to being able to connect from almost anywhere, and this must extend into the government experience.

Smart connected devices, such as sensors in roadways and monitors that automatically track variations in water or power usage, maximize efficiencies and improve the lives of citizens. Public employees in government offices are more mobile and better connected, while workers in the field, such as maintenance crews, are better protected with extended wireless connectivity.

But all this connectivity is stressing traditional network infrastructures – and the demand is only going to grow. With every connection, and every Internet of Things (IoT) device, the network becomes a gateway for a potential cyberattack. That is why reliable, secure and high-performance Wi-Fi is moving to the top of the agenda for public sector organizations. Government organizations must deliver connectivity and mobility that public employees need and also provide the end-to-end, connected experience that citizens expect.

The [Alcatel-Lucent OmniAccess® Stellar WLAN](#) solution meets these demands and more. Its next-generation Wi-Fi 5 and Wi-Fi 6 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 governmental organization looking for Wi-Fi services.

The OmniAccess Stellar WLAN solution offers:

- **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 both public employees and citizens
- **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 decision-making
- **Unified management:** Native unified access for LAN and WLAN with a cloud enabled management 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, government employees and the public can connect within the proximity of public buildings or campuses. Officials can 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 4K access points spread across one or more groups\*

## Built for security

Government networks exchange masses of data – from Smart City solutions tracking energy usage, to traffic density monitors, to security cameras at public buildings. 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, public sector organizations get simplified deployment and configuration plus a significantly 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, different departments can have separate networks. To prevent networks from being compromised, connected machines and security systems can be kept on separate networks too.

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
- IoT containment that makes connection to any device secure
- Supports WPA3 on all access points for greater protection for simple passwords, individualized encryption for personal and open networks, and even more secure encryption for enterprise networks

# Built for simplicity



The OmniAccess Stellar WLAN line is designed to enable automatic onboarding of smart and IoT devices to enhance the connected government experience across the spectrum of public sector services.

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

## 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 intelligence capabilities.

- Secure web management portal
- Wizard configuration tool
- Citizen/tourist 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
- Provides an energy savings Wi-Fi 6 feature called Target Wake Time (TWT) which reduces energy consumption for connected devices which prolongs battery life and durability
- Utilizes Wi-Fi 6 capabilities that maximizes traffic efficiency by reducing the time and avoiding duplicity when sending information over the WLAN

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

### Digital Government Solutions

Where public employees and citizens connect  
for the most effective public sector services.

Where you connect securely for enhanced  
public safety and community livability.

Where your government infrastructure connects to  
enhance communications, security and efficiency.

