



ALE | Where Everything Connects



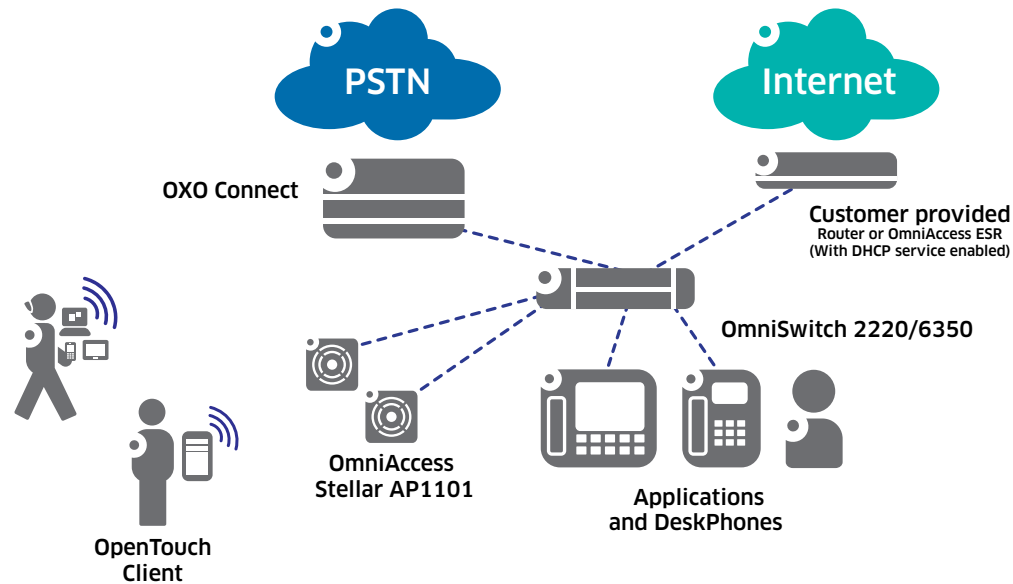
## Network mobility for SMBs

Increase network performance while adding mobility for users

# Solution for greater mobility

SMBs need simple, affordable, smart network infrastructure and communications solutions. With this in mind, Alcatel-Lucent Enterprise addresses this market with a comprehensive solution for both wired (LAN) and wireless (Wi-Fi) networking as well as IP telephony. The ALE network mobility solution for SMBs include the Alcatel-Lucent OmniSwitch® WebSmart and fixed Gigabit Ethernet switches -- OmniSwitch 2220 and OmniSwitch 6350 and Alcatel-Lucent OmniAccess® Stellar Access Points, based on the latest 802.11ac Wave 2 enabling high speed wired and wireless (Wi-Fi®) LAN access. The communications solution includes Alcatel-Lucent OXO Connect, providing IP telephony, for a complete voice/data/Wi-Fi solution. OXO Connect and an OmniSwitch/OmniAccess Network Mobility solution is optimized for SMB customers who need an IP telephony solution with Wi-Fi access, or who would like to upgrade their existing OXO Connect solution and add Wi-Fi, as shown in the following figure:

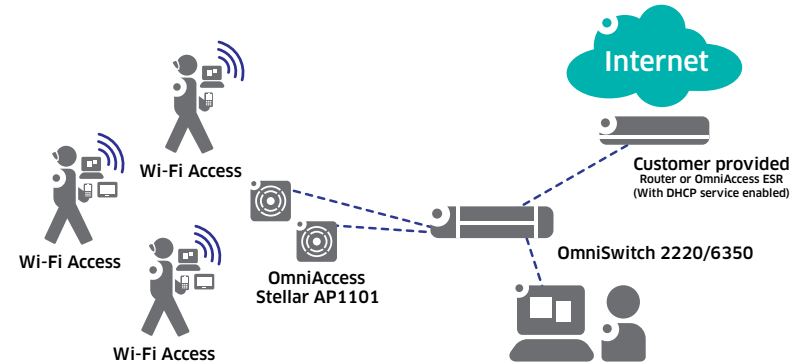
Figure 1. Mobility and IP telephony solution





The Mobility Network Solution is for SMBs who are looking for an affordable high-performance wired and wireless LAN networking solution that is simple to deploy, operate and maintain. The following figure shows what the SMB Mobility Network Solution could look like.

Figure 2. Mobility solution



The advantage of ordering an SMB Network Mobility solution from Alcatel-Lucent Enterprise is its ease of installation and configuration. Zero-touch configuration is provided for the OmniSwitch 6350 and OmniAccess Stellar AP1101 when used with OXO Connect, as the switch gets its configuration information from OXO Connect. When the Network Mobility solution is used by itself, the minimum configuration is required to get the OmniSwitch 6350 or the OmniSwitch 2220 and OmniAccess Stellar Access Points up and running. To simplify ordering a Network Mobility solution, a set of solution examples for 10, 20, 50, and 100 users (country specific) have been identified, as a reference. In addition, a configuration guide describes the installation and set-up of the OmniSwitch 2220-P8/6350-P10, OmniSwitch 2220-P24/6350-P24 and OmniSwitch 2220-P48/6350-P48 Ethernet PoE/PoE+ switches, with OmniAccess Stellar Access Points.

## SMB Mobility solution references

### 10-user 802.11a/b/g/n/ac example

- 1 x OS2220-P8/OS6350-P10
- 2 x OAW-AP1101

### 20-user 802.11a/b/g/n/ac example

- 1 x OS2220-P24/OS6350-P24
- 2 x OAW-AP1101

### 50-user 802.11a/b/g/n/ac example

- 1 x OS2220-P48/OS6350-P48
- 4 x OAW-AP1101

### 100-user 802.11a/b/g/n/ac example

- 2 x OS6350-P48
- 10 x OAW-AP1101

# LAN infrastructure

Using a single infrastructure for Gigabit data services with Power over Ethernet (PoE/PoE+) is cost efficient.



OmniSwitch 2220-P8



OmniSwitch 2220-P24

## OmniSwitch 2220 Gigabit Ethernet WebSmart Switch

The Alcatel-Lucent OmniSwitch® 2220 Gigabit Ethernet WebSmart family of switches provides a simple, secure, and smart business network at affordable prices. The OmniSwitch 2220 allows you to achieve a reliable business class network performance including security without paying for advanced network management features. These switches are a lower-priced alternative to managed switches for wired connectivity while maintaining performance, quality of service (QoS) and scalability using a simplified web management interface. They include:

- 8-, 24- and 48-port, Power over Ethernet (PoE+) and non-PoE models with fixed small form factor pluggable (SFP) 1G uplink interfaces
- Reduced power consumption with energy efficient Ethernet (EEE) technology
- Simplified web-based management
- Easy MAC/IP-based ACLs
- Security: 802.1X RADIUS, MAC Filtering/Port Security, Guest VLAN, Broadcast Storm Recovery
- Convergence: Enhanced Voice over IP (VoIP) VLAN, Auto-VoIP VLAN for Alcatel-Lucent Enterprise VoIP phones, IEEE 802.3af/.at PoE+ for IP phones, WLAN access points and video cameras
- Fanless or one-fan switches to ensure quiet operations

## Key benefits

- The OmniSwitch 2220 switches are designed to be easy to deploy and used by small and medium sized businesses.
- The OmniSwitch 2220 family provides high availability and performance for both wired and 802.11ac wireless deployments.
- The OmniSwitch 2220 provides configurable access control lists (ACLs) and 802.1x port-based and RADIUS server access security.
- OmniSwitch 2220 switches include QoS features to prioritize delay-sensitive services such as voice and video while simplifying unified communications deployments.

Gigabit Ethernet switch with 10-, 24- and 48-ports



OS6350-P10



OmniSwitch 6350-P24



OmniSwitch 6350-P48

## OmniSwitch 6350 Gigabit Ethernet Switch

The Alcatel-Lucent OmniSwitch 6350 Gigabit Ethernet switch offers versatile 10/24/48-port fixed configurations. Each switch includes:

- A Gigabit Ethernet chassis in a 1U form factor
- 10-, 24- or 48-PoE/PoE+auto-sensing 10/100/1000 Base-T ports
- Four fixed SFP 1G uplink ports (two SFP ports on the OmniSwitch 6350-10/P10)
- Fanless OmniSwitch 6350-10,-P10 and -24 switches ensure quiet operation

These switches have low power consumption for reduced operating expenses and faster return on investment (ROI).

## Key benefits

- Offers excellent investment protection and flexibility with easy deployment, operation, and maintenance
- Provides outstanding performance, supports real-time voice, data, and video applications
- Ensures that efficient power management reduces operating expenses (OPEX) and lowers total cost of ownership (TCO) through low power consumption and dynamic PoE allocation by delivering only the power needed to the attached device
- Supports cost-effective installation and deployment with automated switch setup and configuration, as well as end-to-end virtual LAN (VLAN) provisioning

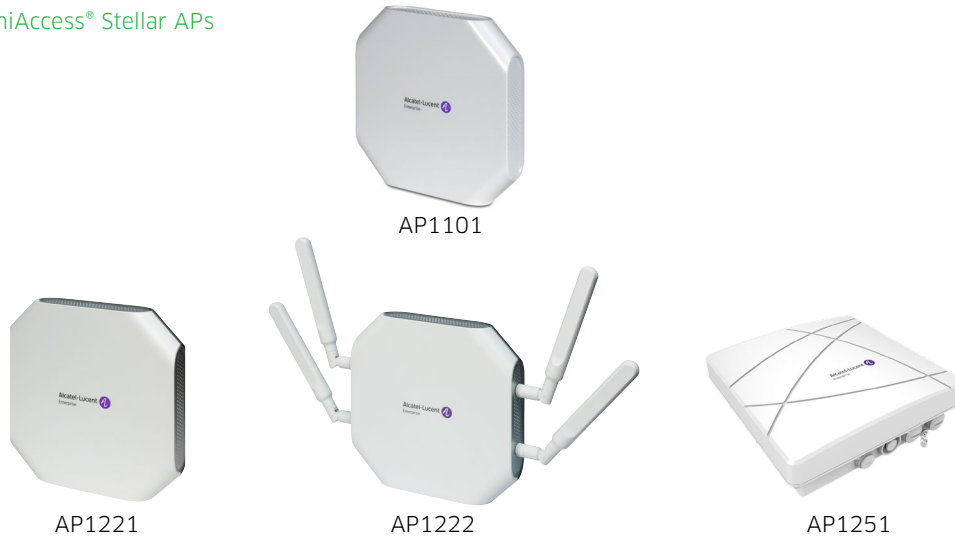
## Brochure

Network mobility for SMB

# WLAN infrastructure

Using a single infrastructure for wireless (Wi-Fi) access is cost efficient.

## OmniAccess® Stellar APs



Dual radio (MU-MIMO) with IEEE 802.3af Power over Ethernet (PoE)

## Outstanding performance with simplified deployment

Alcatel-Lucent OmniAccess Stellar AP1101 is an entry level, high performance gigabit access point, ideal for small and medium density Wi-Fi environments, while minimizing interference from cellular networks.

The OmniAccess Stellar AP1101 is a controller-less access point with 802.11ac technology, dual radio 2.4 GHz and 5 GHz that delivers wireless data rates of up to 867 Mb/s to 5 GHz devices, while simultaneously supporting 2.4 GHz 802.11n clients with data rates of up to 300 Mb/s. Each AP leverages two spatial (multiple input and multiple output) MIMO streams to achieve these data rates.

The OmniAccess Stellar AP1220 series is a mid-range 802.11ac Wave 2 AP for medium and large deployments. This indoor Wi-Fi access point provides high throughput and a seamless user experience.

## Brochure

Network mobility for SMB

The high-performance, 802.11ac Wave2, OmniAccess AP1220 series supports a maximum concurrent data rate of 2.1 Gb/s (1733 Mb/s in 5 GHz and 400 Mb/s in 2.4 GHz), 160 MHz channels (VHT160), multi-user MIMO (MU-MIMO) and four spatial streams (4SS). They provide simultaneous multicast data transmission to multiple devices, maximizing data throughput and improving network efficiency.

The multifunctional OmniAccess Stellar AP1251 is a high-performance 802.11ac Wave 2 access point used in outdoor settings for enterprise deployments of all sizes. It provides high throughput and seamless user experience.

Ideal for medium-density outdoor environments, this high-performance, rugged access point supports the IP67 standard for harsh outdoor environments, such as exposure to high and low temperatures, persistent moisture and precipitation, and industrial strength surge protection.

The OmniAccess Stellar family also supports Zero Touch Provisioning with Alcatel-Lucent OXO Connect, a mechanism by which the first AP connected to the network will obtain its configuration from the OXO Connect. Then the rest of the AP in the network will come up automatically with updated configuration. This ensures the entire network to be up and running within few minutes.

## Key benefits

- Radio Dynamic Adjustment™ with DFS/TPC to deliver reliable, high performance WLAN access
- Built-in customizable captive portal and simplified guest management solution that is easy to use by any non-IT savvy persons
- VoWLAN support with QoS for each application providing seamless roaming for real-time applications
- Fully integrated and validated configuration bundle with OmniSwitch and OXO Connect ensuring seamless interoperability

## Brochure

Network mobility for SMB

### We are ALE.

We make everything connect by delivering technology that works, for you. With our global reach, and local focus, we deliver networking and communications. On Premises. Hybrid. Cloud.

# ALE

Where  
Everything  
Connects