



# NETWORK MOBILITY FOR SMB

Increase network performance  
while adding mobility for users

Alcatel·Lucent  
Enterprise



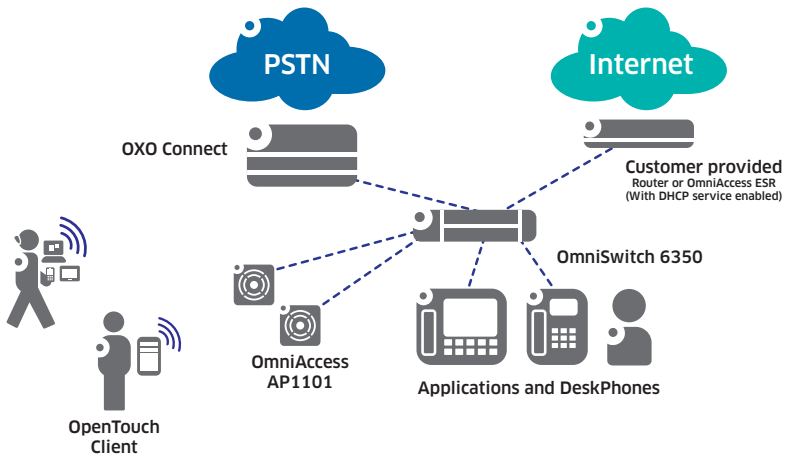
# SOLUTION FOR GREATER MOBILITY

## Affordable, smart network infrastructure for SMB

The SMB (small-medium business) market can be addressed using two Alcatel-Lucent Enterprise solutions. The first solution includes OmniSwitch® 6350 Gigabit Ethernet Switch for SMBs and OmniAccess® Access Points, such as the latest 802.11 ac Access points that support up to 1.2 Gbps aggregate bandwidth, enabling high speed wired and wireless (Wi-Fi®) LAN access, referred to as the Network Mobility solution. The second 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:

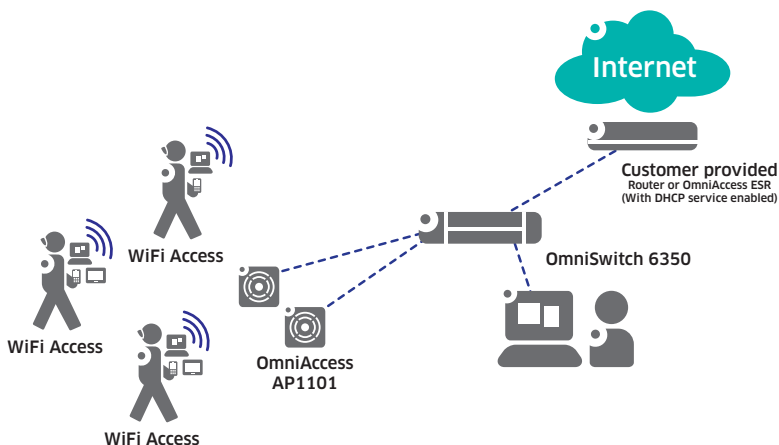
**Figure 1: Mobility and IP telephony solution**



# SOLUTION FOR GREATER MOBILITY

The Network Mobility solution is for customers who would like to add high-speed wired and wireless LAN to their network and either already have OXO Connect or have a budget constraint, as shown in the following figure:

**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 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, minimum configuration is required to get the OmniSwitch 6350 and OmniAccess AP1101 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 6350-P10, OmniSwitch 6350-P24 and OmniSwitch 6350-P48 Ethernet PoE/PoE+ switches, with OmniAccess AP1101.

## SMB Mobility solution references

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

- 1 x OS6350-P10
- 2 x OAW-AP1101

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

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

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

- 1 x 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

## LAN infrastructure

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



OS6350-P10



OmniSwitch 6350-P24



OmniSwitch 6350-P48

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

## 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 OS6350-10/P10)
- Fanless OS6350-10,-P10 and -24 switches ensure quiet operation

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

## Key features

- 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 (delivers 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

# WLAN INFRASTRUCTURE

## WLAN infrastructure

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



OmniAccess AP1101

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

## Outstanding performance with simplified deployment

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

The OmniAccess AP1101 is a controller-less access point with 802.11ac technology, dual radio 2.4GHz and 5GHz that delivers wireless data rates of up to 867 Mb/s to 5GHz 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.

OmniAccess AP1101 also support 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. 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.

# WLAN INFRASTRUCTURE

## Key features

- Radio Dynamic Adjustment(TM) 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; seamless roaming for real-time applications
- Fully integrated and lab tested plug-and-play configuration bundle with Alcatel-Lucent OmniSwitch and OXO Connect



Contact your Alcatel-Lucent Enterprise reseller to find out more about Network Infrastructure for SMB.

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