



NETWORK MOBILITY FOR SMB

Increase network performance while
adding mobility for users

Alcatel·Lucent
Enterprise



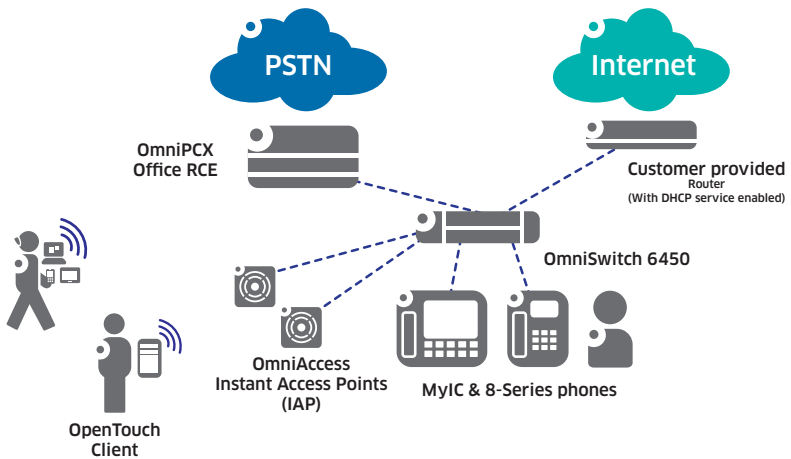
SOLUTION FOR GREATER MOBILITY

SMB network infrastructure solution

The SMB (small-medium business) market can be addressed using two Alcatel-Lucent Enterprise solutions. The first solution includes OmniSwitch® and OmniAccess® Instant Access Points (IAPs), enabling high speed wired and wireless (Wi-Fi®) LAN access, referred to as the Mobility solution. The second solution includes OmniPCX® Office RCE, providing IP telephony, for a complete voice/data/Wi-Fi solution.

OmniPCX Office RCE and an OmniSwitch/IAP Mobility solution is for SMB customers who need an IP telephony solution with Wi-Fi access, or who would like to upgrade their existing OmniPCX Office RCE solution and add Wi-Fi, as shown in the following figure:

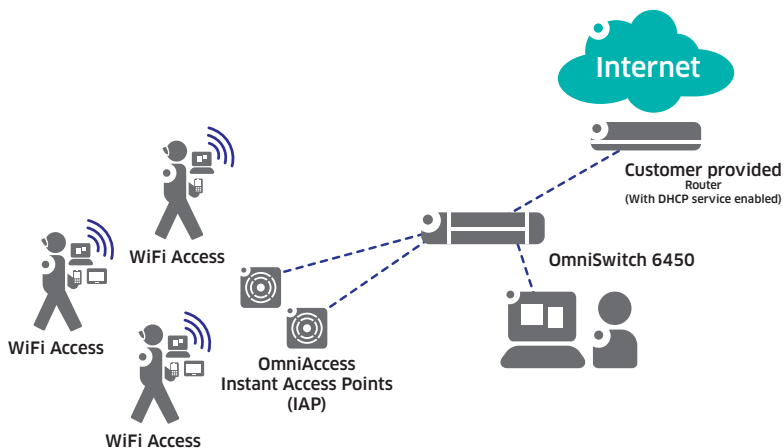
Figure 1: Mobility and IP telephony solution



SOLUTION FOR GREATER MOBILITY

The Mobility solution is for customers who would like to add high-speed wired and wireless LAN, but already have OmniPCX Office RCE or a budget constraint, as shown in the following figure:

Figure 2: Mobility solution



The advantage of ordering an SMB Mobility solution from Alcatel-Lucent Enterprise is because it is easy to install and configure. Zero-touch configuration is provided for the OmniSwitch and IAPs when ordered with OmniPCX Office RCE, as the switch gets its configuration information from OmniPCX Office RCE. When the Mobility solution is ordered by itself, minimum-touch configuration is enabled to get the OmniSwitch and IAPs up and running. To simplify ordering a Mobility solution, a set of solution bundles for 20, 50, and 100 users (country specific) have been identified. In addition, a configuration guide describes the installation and set-up of the OS6450-P24 and -P48 Ethernet switches, with OAW-IAP103 and OAW-IAP205.

SMB Mobility solution bundles

20-user 802.11a/b/g/n bundle

- 1 x OS6450-P24
- 2 x OAW-IAP103

50-user 802.11a/b/g/n/ac bundle

- 1 x OS6450-P48
- 4 x OAW-IAP205

20-user 802.11a/b/g/n/ac bundle

- 1 x OS6450-P24
- 2 x OAW-IAP205

100-user 802.11a/b/g/n/ac bundle

- 2 x OS6450-P48
- 10 x OAW-IAP205

LAN INFRASTRUCTURE

LAN infrastructure

Using a single infrastructure for Gigabit data services with Power-Over-Ethernet (PoE) is cost efficient.



OmniSwitch 6450-P24



OmniSwitch 6450-P48

Gigabit Ethernet switch with 24- and 48-ports

OmniSwitch 6450 Gigabit Ethernet Switch

The Alcatel-Lucent OmniSwitch 6450 Gigabit Ethernet switch offers versatile 24/48-port fixed configurations. Each switch includes:

- A Gigabit Ethernet chassis in a 1U form factor with 24- or 48-PoE 10/100/1000 Base-T ports
- Two fixed SFP+ 1G ports
- One expansion slot for optional stacking or uplink modules

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 IAP103
IEEE 802.11a/b/g/n Wi-Fi



OmniAccess IAP205
IEEE 802.11a/b/g/n/ac Wi-Fi

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

OmniAccess 103 and 205 Instant Access Points

Alcatel-Lucent OmniAccess 103 and 205 Instant Access Points (IAP) maximize mobile device performance in low and medium density Wi-Fi environments, while minimizing interference from cellular networks. A single IAP automatically distributes the network configuration to other IAPs in the WLAN. Simply turn on and configure one IAP, and plug in the other IAPs to complete the network- the entire process takes about five minutes.

The OmniAccess IAP103 model features a 2.4-GHz and a 5-GHz radio that delivers wireless data rates of up to 300 Mb/s per radio, employing 802.11n technology. The IAP205 delivers up to 867 Mb/s to 5 GHz devices using 802.11ac technology, while simultaneously supporting 2.4 GHz 802.11n clients with data rates of up to 300 Mb/s. Each IAP leverages two spatial (multiple-input and multiple-output) MIMO streams to achieve these data rates.

To eliminate sticky client behavior while users roam, OmniAccess 103 and 205 IAPs use ClientMatch™ technology, which continuously gathers session performance metrics from mobile devices. If a mobile device moves away from an AP or if RF interference impedes performance, ClientMatch automatically steers the device to a better AP.

WLAN INFRASTRUCTURE

Key features

- ClientMatch dynamically optimizes Wi-Fi client performance as users roam and RF conditions change
- Adaptive Radio Management™ (ARM) technology manages the 2.4-GHz and 5-GHz radio bands to optimize Wi-Fi client performance. ARM ensures that APs stay clear of RF interference while remote spectrum analysis scans radio bands to identify sources of RF interference
- Advanced Cellular Coexistence (ACC) enables WLANs to perform at peak efficiency by minimizing interference from 3G/4G LTE networks, distributed antenna systems and commercial small cell/femtocell equipment

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Network Infrastructure
Suite for SMB.

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