Hálózati konvergencia az SMB szegmensben

YOUNG PARTNER NAP 2013

Luky Gábor
2013 Május

DRIVERS TO CONVERGE

Any (W)LAN terminal

Just **1** Network

How many terminals

in **2015** ?
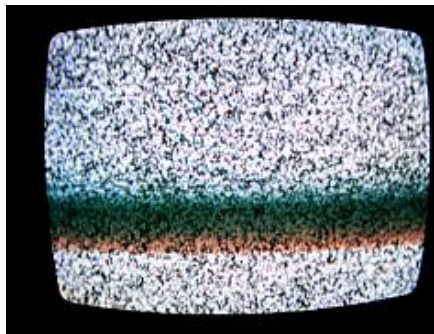
Yesterday

Today

Tomorrow

Alcatel·Lucent
Enterprise

YES...

Except can your current network

- Power IP Phones, cameras and Access Points?

- Automatically configure any multimedia terminal?

- Secure foreign access?

- Provides Quality of Service?

- Recover from failures without annoying conversations?

- Support enterprise TV and CCTV?

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PROVIDE POWER ?

IEEE standard protocol to power Ethernet connected devices

~ 3-7 Watts ~ 15 - 25 Watts ~ 8-20 Watts

What

Mains PoE switch Ethernet cable

Important to know

IEEE 802.3af = up to 15.4 Watts per Ethernet port
IEEE 802.3at = up to 30 Watts per Ethernet port (AKA PoE+)

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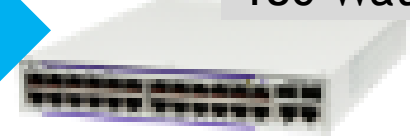Enterprise

Feeds Power over Ethernet devices

2400 Watts

180 Watts

Fast Ethernet & PoE+

Gigabit Ethernet & PoE+

Gigabit Ethernet & PoE+

780 Watts

PoE PSU   System PSU

Backup Power Suplly

and better

With Dynamic Power Allocation
Any standardized Powered Device can connect
Most efficient power distribution
Energy Efficiency Ethernet (IEEE 802.3az)

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Control

Provides Quality of Service

Granular Quality of Service mandatory for improved experience

Quality of Quality of Service is hardware dependent

and better

One Touch QoS   User Network Profile   AutoQoS   Profiled bandwidth
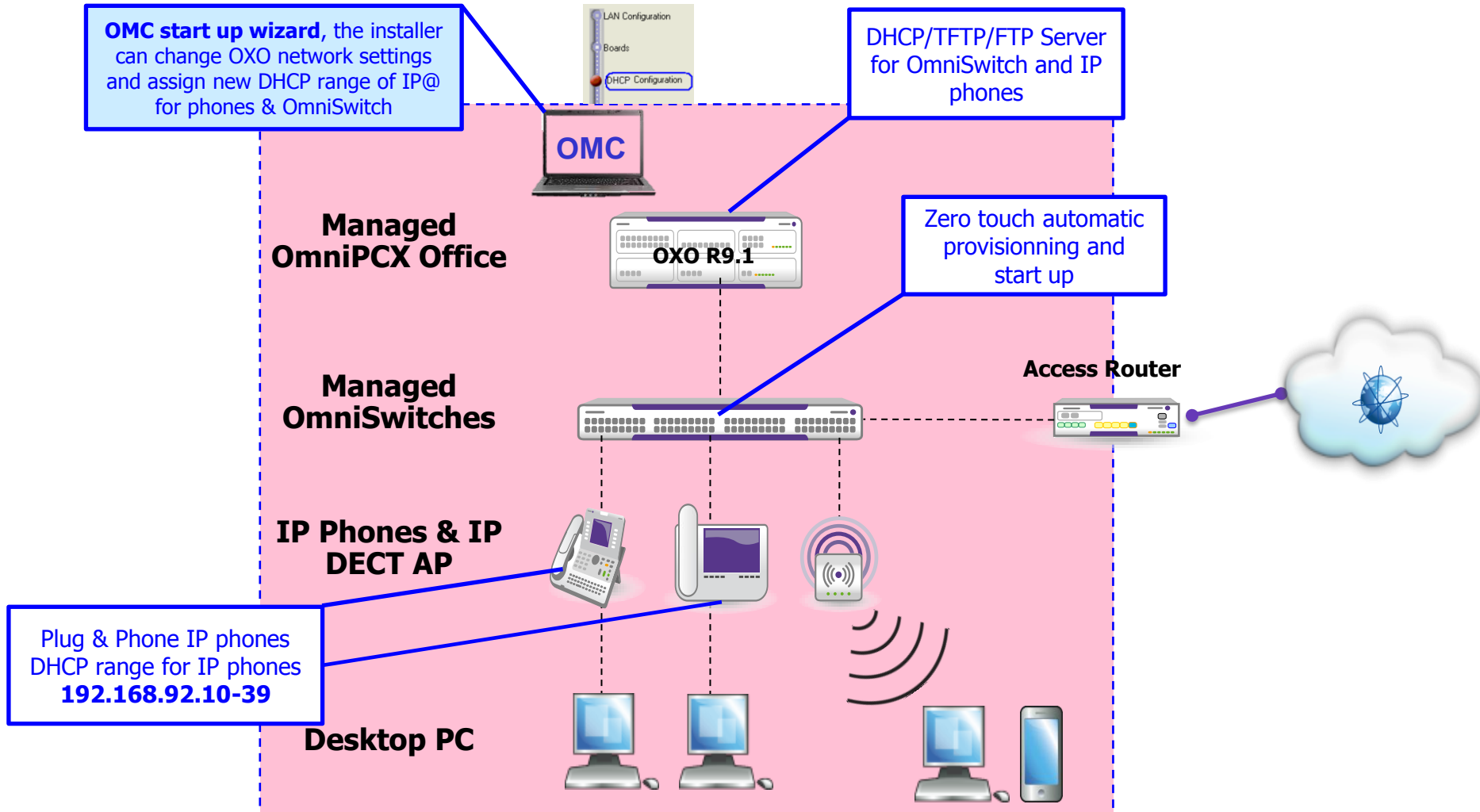
Control Delay   Control Packet Loss   Control Jitter

This is Jitter

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SIMPLIFIED OPERATIONS
Automated Endpoint and Access Switch Configuration

OMC start up wizard, the installer can change OXO network settings and assign new DHCP range of IP@ for phones & OmniSwitch

LAN Configuration
Boards
DHCP Configuration

OMC

DHCP/TFTP/FTP Server for OmniSwitch and IP phones

Managed OmniPCX Office

OXO R9.1

Zero touch automatic provisionning and start up

Managed OmniSwitches

Access Router

IP Phones & IP DECT AP

Plug & Phone IP phones DHCP range for IP phones **192.168.92.10-39**

Desktop PC

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Scalability - OmniSwitch 6450 Light

Expanded Market Reach

- More options with lower Capex models:
  - New Fast Ethernet "L" platforms
  - OS6450-10 stacking up to 4 units
- <u>Competitive distributed campus offer with remote stacking</u>

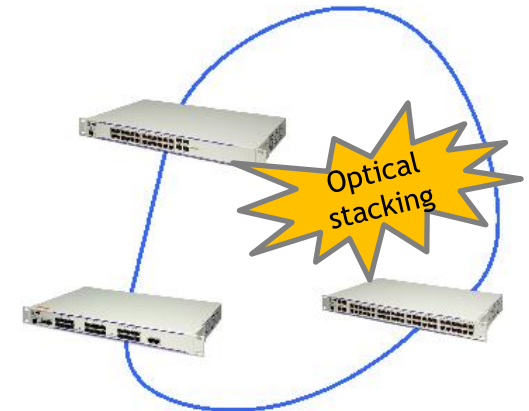**Available Q2 2013**

NEW

OmniSwitch 6450-24L/48L

Investment protection

- 1 GigE upgrade software license
- 10 GigE uplink software license

Optical stacking

Reduced Operational Cost

- Energy Efficiency Ethernet (IEEE 802.3az)
- New troubleshooting tools to isolate cable breaks
- Zero-touch configuration with combined OXO deployment

New Stacking Capability (Q2)

OmniSwitch 6450-10

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Scalability - Instant Access Points (IAP) Overview

> **Virtual Controller Technology**
> > **Adaptive Radio Management**
> > **Stateful firewall & rogue AP protection**
> > **Stateful QoS for voice & video**
> > **Wireless Intrusion Detection**

> **3-minute WLAN Install**
> > **Over the air provisioning**
> > **Single screen user interface**

> **Optional Cloud-based Management**
> > **Network operations by OmniVista 3600 Air Manager**

> **Software Upgradable to Join Controller-based WLAN**

> **No additional wireless switch or controller required**

> **No software licenses need to be bought** (no AP license, no PEFNG or RF Protect license)

Alcatel Lucent Instant AP Portfolio

IAP92/93
Single Radio, 2x2 MIMO

IAP105
Dual Radio, 2x2 MIMO
internal antennas

IAP104
Dual Radio, 2x2 MIMO
external antennas

IAP134/135
Dual Radio 3x3 MIMO

IAP175
Dual Radio 2x2 MIMO

16 IAPs & 256 devices
per cluster; no mesh

**No group
limits**

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