

# Recent Achievements for Computer and Communication Network Management

Sofia, October 4th 2013

Stoyan Mishinev, OPENINTEGRA

CEO, Head of Infrastructure Department



## WHO AM I

- Stoyan Mishinev <<u>mishinev@openintegra.com</u>>
- Cofounder and CEO of OPENINTEGRA
- PhD student in IICT BAS



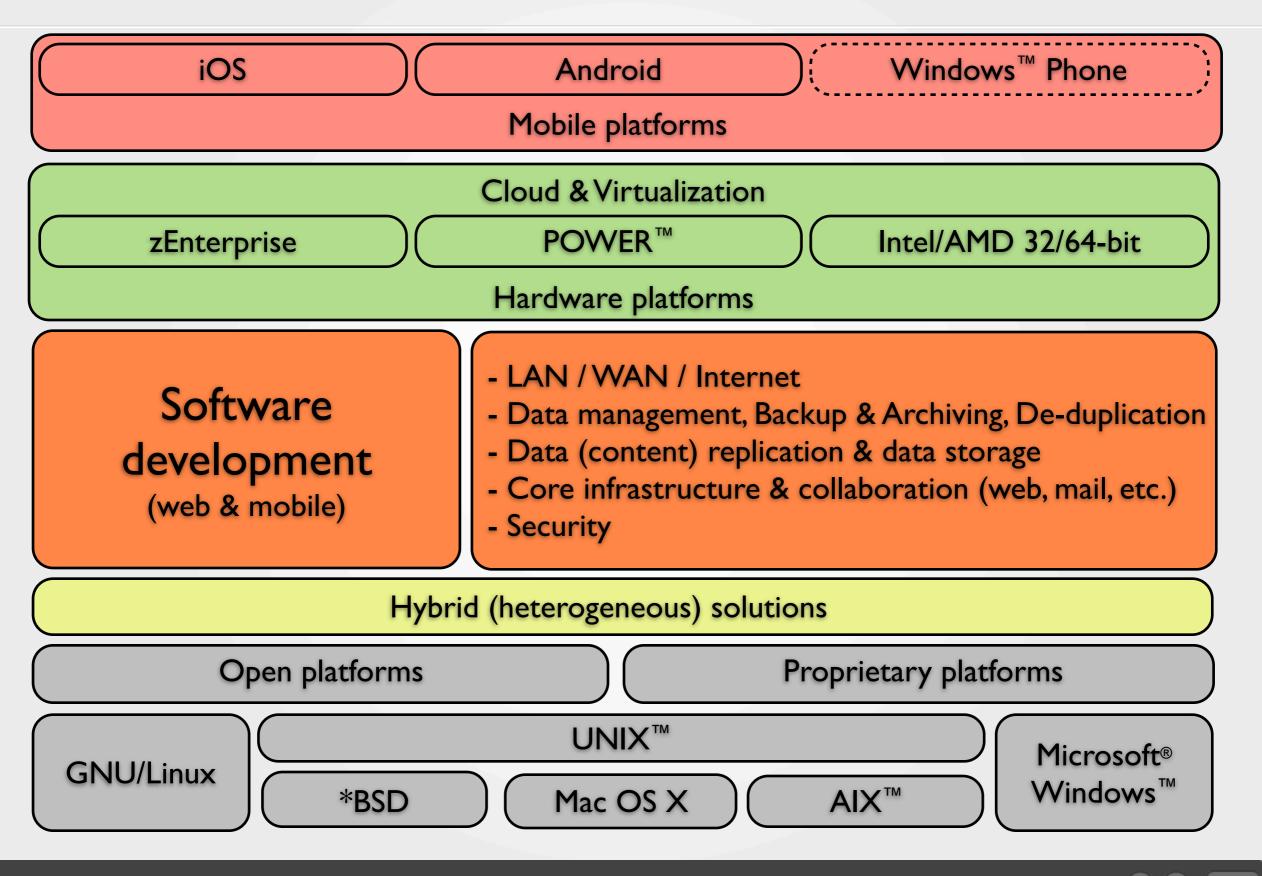
System integrator - Hardware, Software & Services

# **Corporate facts**

- 100% Bulgarian company est. 2003
- Systems & Software integrator
- Open source software focused
- Founders are recognizable IT leaders
- IBM Business Partner
- Red Hat Ready Partner
- EMC Velocity Solution Provider Affiliate Partner
- VMware professional solution provider
- Silver Citrix Solution Provider
- Reseller of EMC, IBM, Apple, Cisco, NetApp, VMware, Citrix, RSA, Lenovo, Posiflex, Micros/Fidelio & etc.

openintegra

System integrator - Hardware, Software & Services





# Satisfy customer requirements using supported and unsupported configurations

- DMVPN backup of MPLS Virtual Private Network
- Wireless extender for Wireless Controller driven network

DMVPN Backup of MPLS VPN



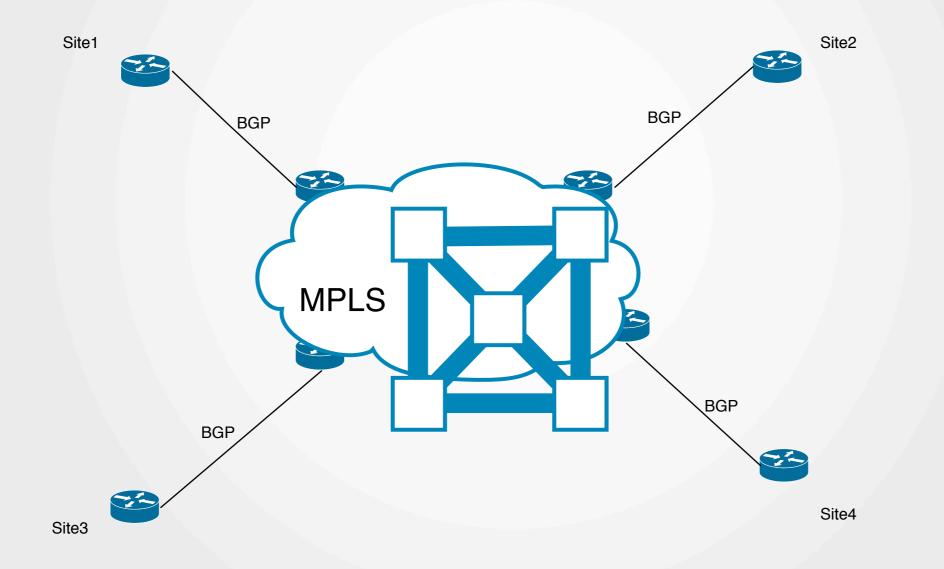
# **DMVPN Backup of MPLS VPN - Terminology**

- MPLS MultiProtocol Label Switching
- VPN Virtual Private Network
- DMVPN Dynamic Multipoint Virtual Private Network

DMVPN Backup of MPLS VPN



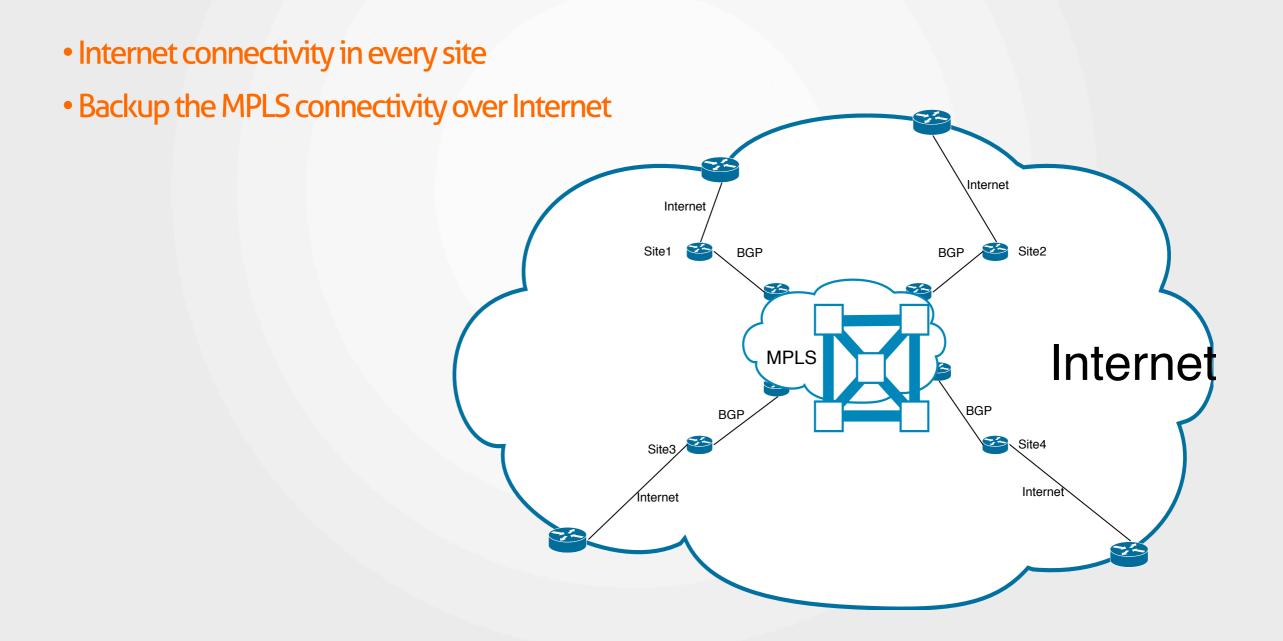






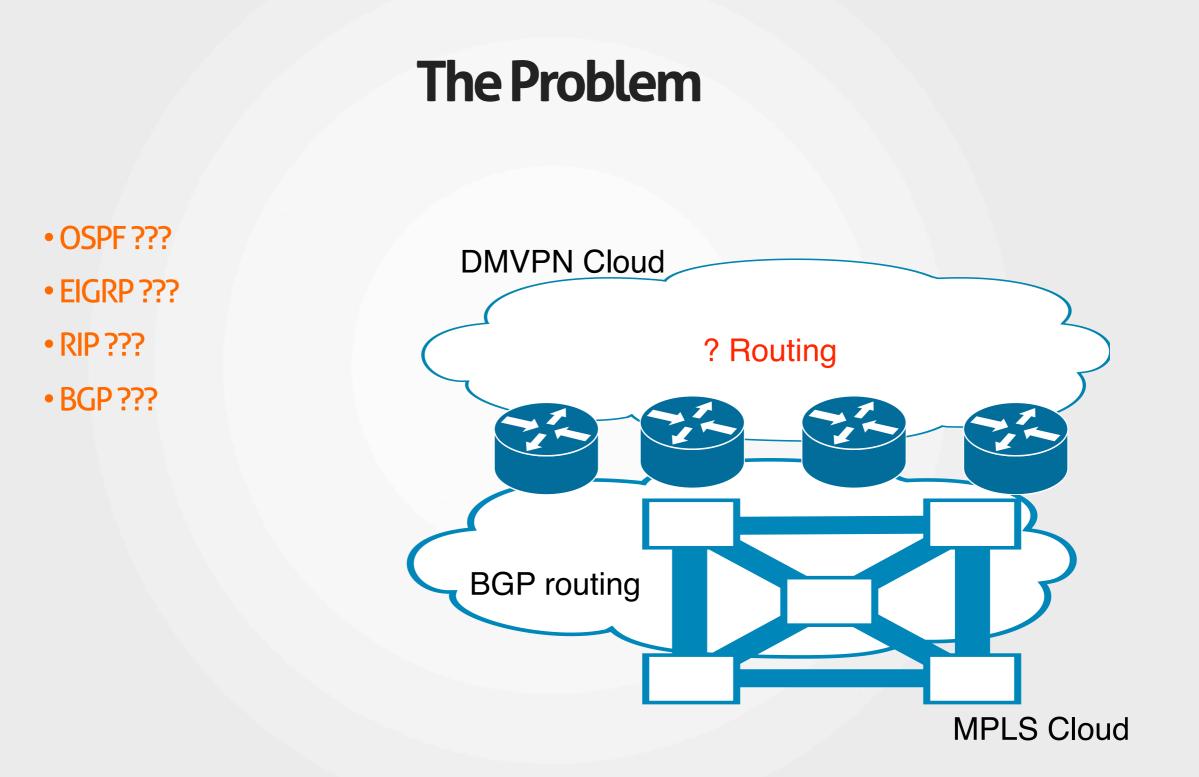
DMVPN Backup of MPLS VPN

# **The Requirements**

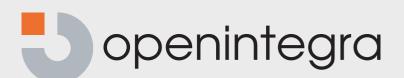




DMVPN Backup of MPLS VPN

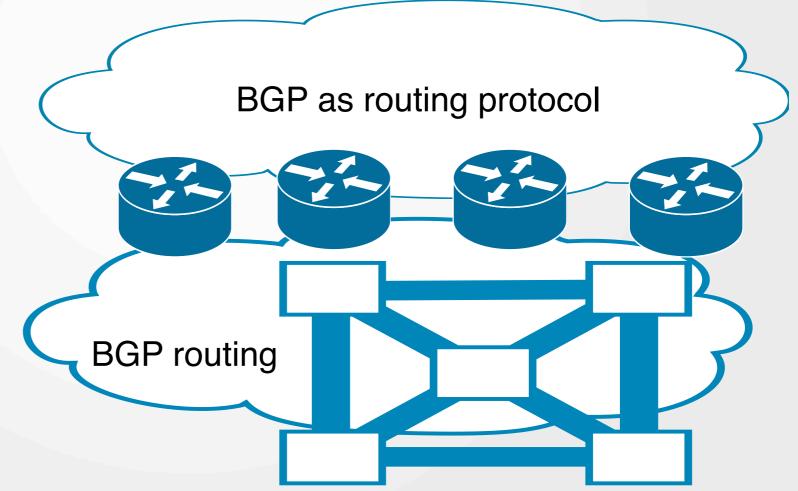


DMVPN Backup of MPLS VPN



# **The Solution**

- BGP as routing protocol
- Prepend DMVPN routes
- Proper local preference for DMVPN routes





Wireless Extender

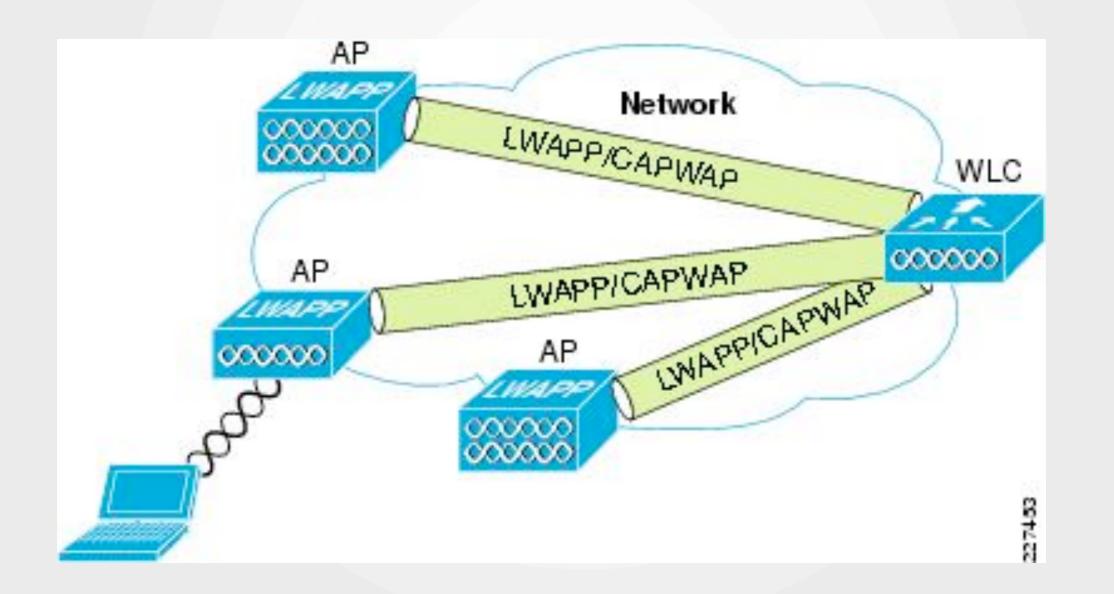
#### Wireless Extender - Terminology

- CAPWAP Control and Provisioning of Wireless Access Points
- WLC Wireless Controller

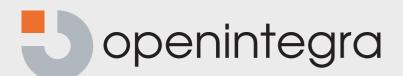


Wireless Extender

#### Wireless Extender - Technology

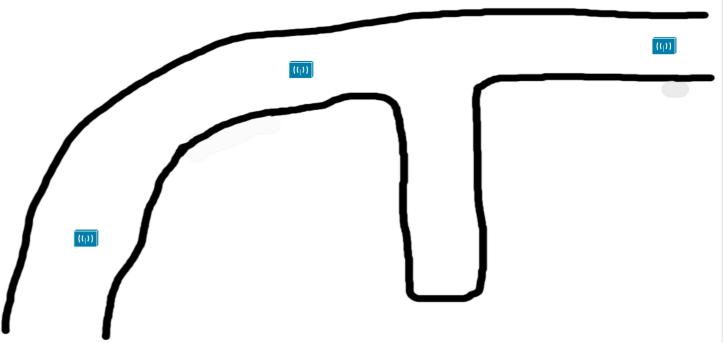


Wireless Extender



# **The Starting Point**

- Cisco Wireless Access Points
- Cisco Wireless Controller driven Wireless Network (CAPWAP)
- Galleries to be covered

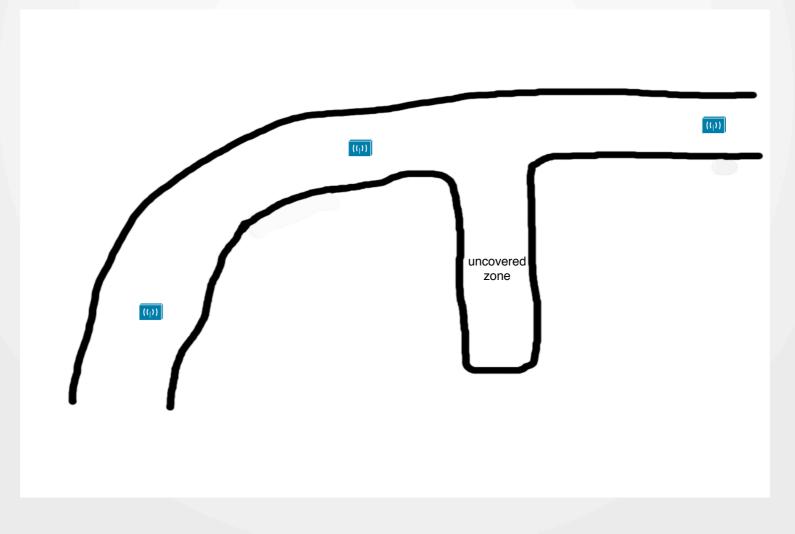




Wireless Extender

# **The Problem**

#### Need coverage in dead zones

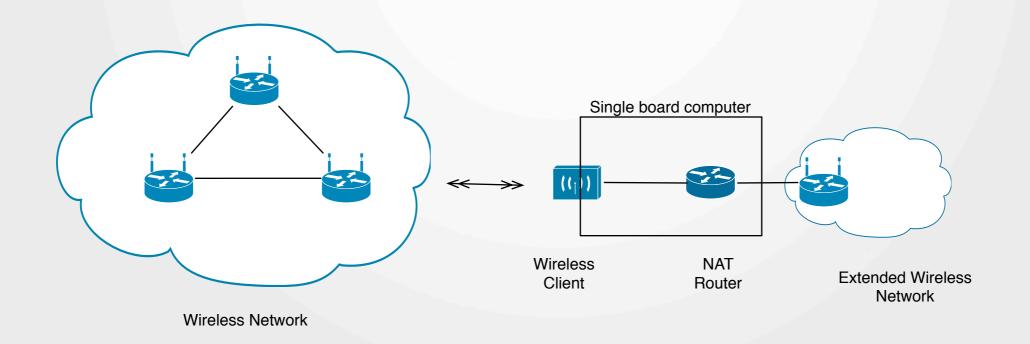


Wireless Extender

# openintegra

# **The Solution**

- Wireless Client
- NAT Router
- Extender AP connected to WLC via CAPWAP

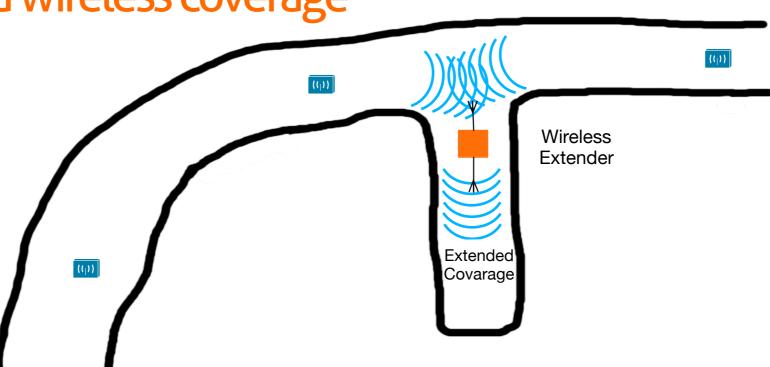


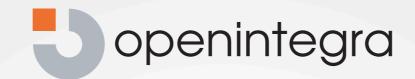
Wireless Extender



## **The Achievement**

- Battery powered mobile device
- Easy to extend wireless coverage





# Thanks!

That's all for today

Date: Sofia, 4 Oct 2013

Author: Stoyan Mishinev <<u>mishinev@openintegra.com></u>

EXIT