Athens International Airport

Wireless Services & Applications

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Agenda

✓ **Wireless Concept in AIA**

✓ **Infrastructure**

✓ **Voice-Data Applications**

✓ **Next steps**

AIA Wireless Concept

Wlan Networks

AIA corporate

Wireless Internet Zone

Customers

Wi Fi Wireless

Operational

AIA Wireless Concept

4 x Controllers

WCS Management

- Indoor Wi-Fi
- 105 Access Points b/g

2 x Controllers

- Outdoor Wi-Fi
- 57 Mesh Access Points

AIA Wireless Infrastructure

Wi Fi

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AIA Wireless Concept

One of the biggest Mesh Networks in Greece

- ✓ **Common Centralized Infrastructure for the Airport Community**

- ✓ **Total 162 Access Points**

- ✓ **900 – 1000 Daily Clients**

- ✓ **Advanced Security Protection**

- ✓ **99,8 Coverage for Outdoor Areas**

- ✓ **99,7 Coverage for Indoor Areas**

- ✓ **99,99 % Availability of Wireless Network**

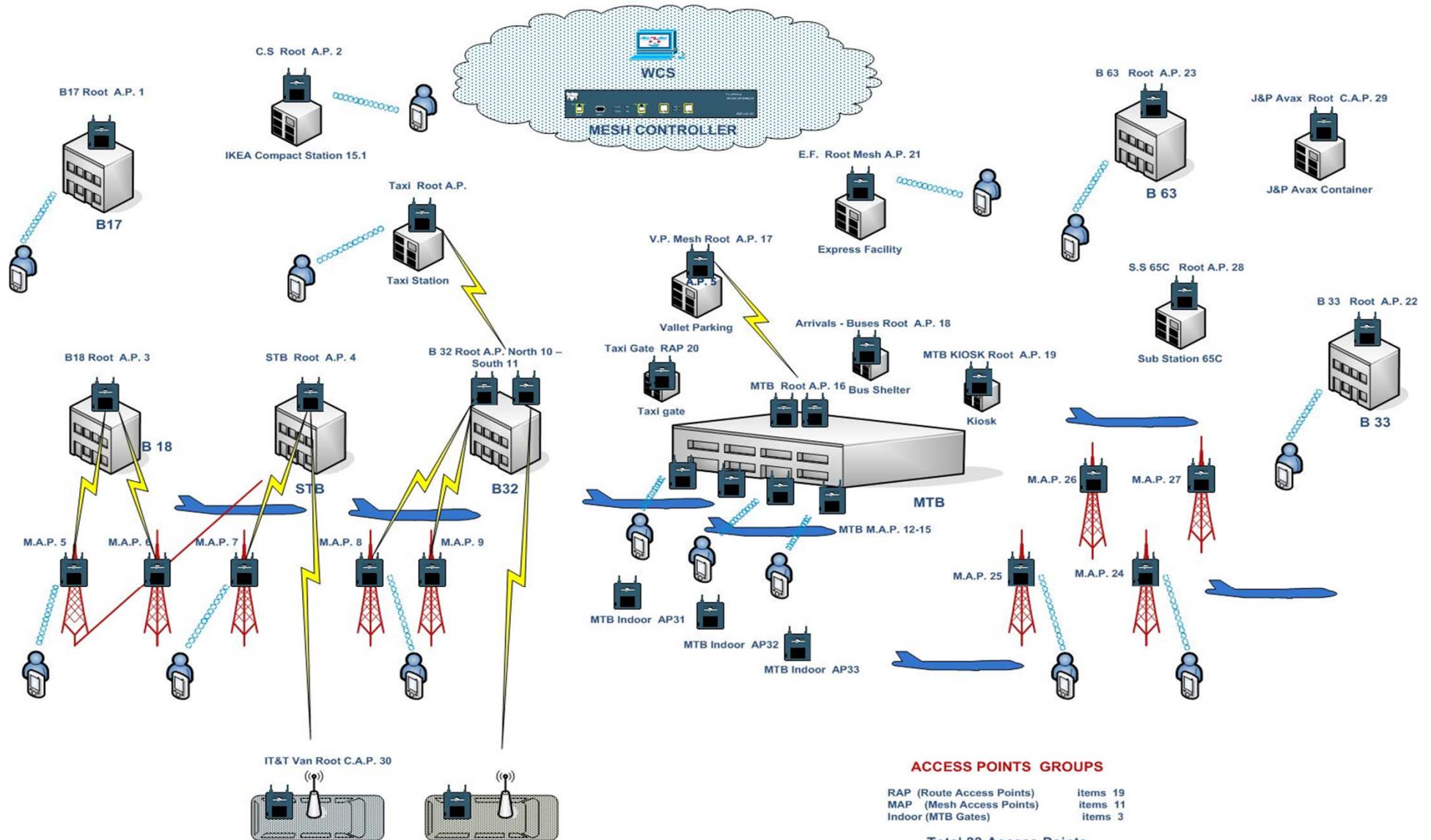WCS

6 Cisco Controllers 4400

2 Cisco Controllers 5500

162 Access Points

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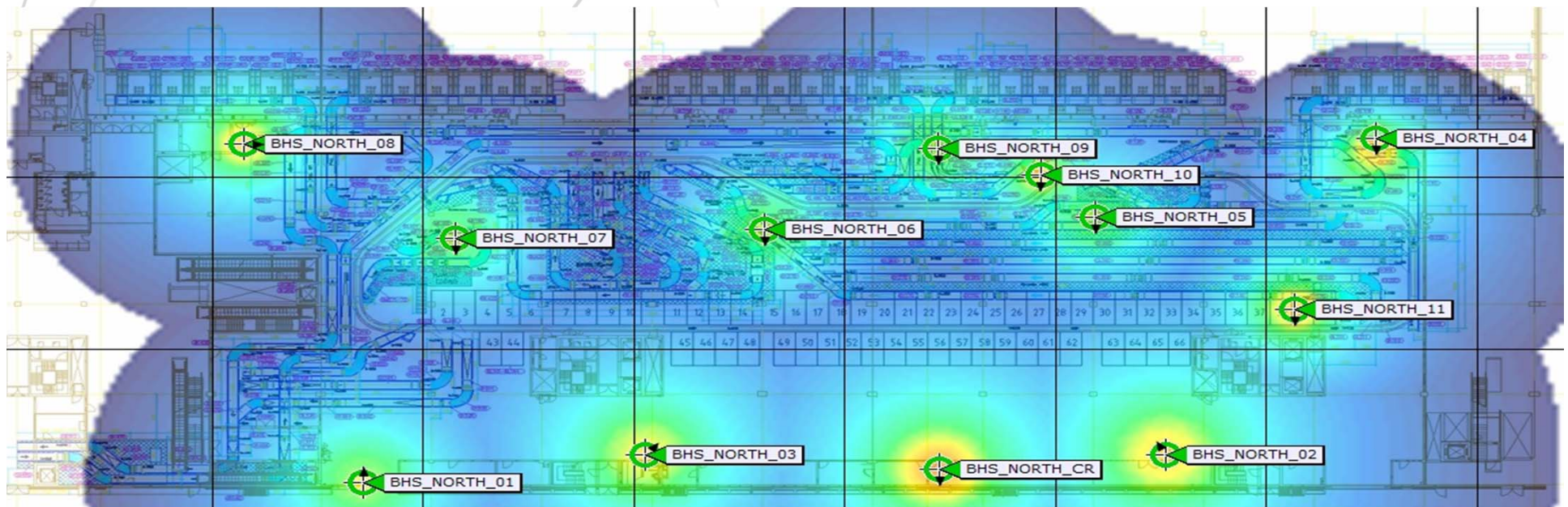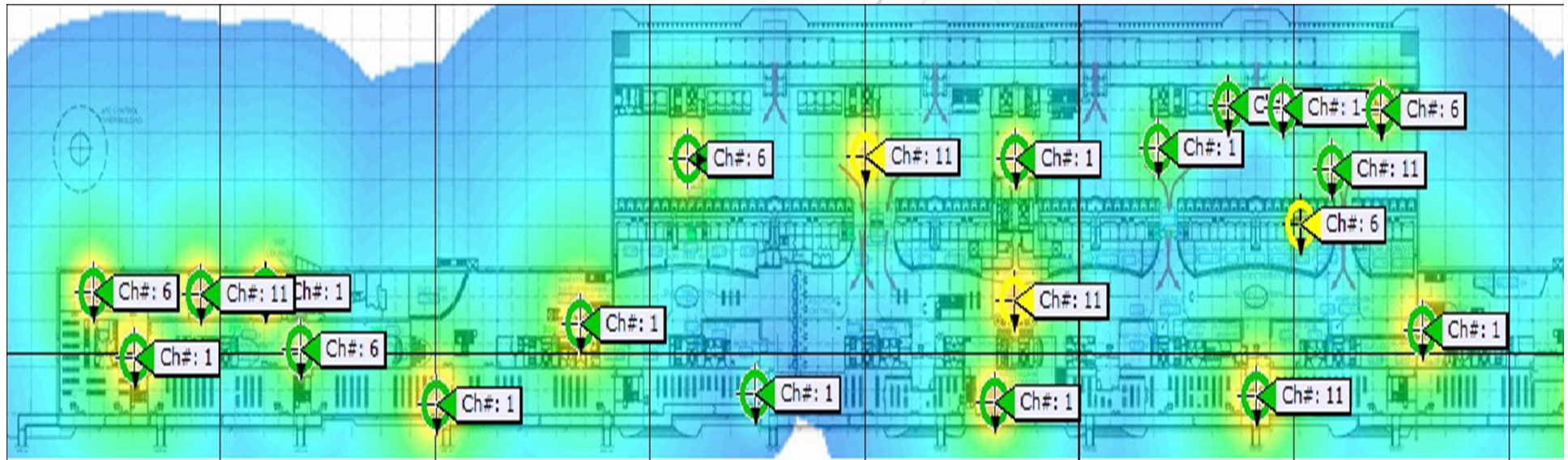INTERNATIONAL AIRPORT
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AIA Wireless Concept

AIA Wi-Fi OUTDOOR MESH TOPOLOGY

WCS

MESH CONTROLLER

C.S Root A.P. 2

IKEA Compact Station 15.1

B17 Root A.P. 1

B17

Taxi Root A.P.

Taxi Station

E.F. Root Mesh A.P. 21

Express Facility

B 63 Root A.P. 23

B 63

J&P Avax Root C.A.P. 29

J&P Avax Container

V.P. Mesh Root A.P. 17

A.P. 5

Vallet Parking

S.S 65C Root A.P. 28

Sub Station 65C

B 33 Root A.P. 22

B 33

B18 Root A.P. 3

B 18

STB Root A.P. 4

STB

B 32 Root A.P. North 10 – South 11

B32

Taxi Gate RAP 20

Taxi gate

Arrivals - Buses Root A.P. 18

Bus Shelter

MTB Root A.P. 16

MTB KIOSK Root A.P. 19

Kiosk

MTB

MTB M.A.P. 12-15

M.A.P. 26   M.A.P. 27

M.A.P. 25   M.A.P. 24

M.A.P. 5   M.A.P. 6   M.A.P. 7   M.A.P. 8   M.A.P. 9

MTB Indoor AP31

MTB Indoor AP32

MTB Indoor AP33

IT&T Van Root C.A.P. 30

ACCESS POINTS GROUPS

RAP (Route Access Points)	items 19
MAP (Mesh Access Points)	items 11
Indoor (MTB Gates)	items 3

Total 33 Access Points

Outdoor Coverage 99,8 %

Indoor Coverage 99,7 %

Wireless Applications

Baggage Reconciliation System on Apron

Automatic Vehicle Location for Bus Stop Displays

Central Parking Application for Telephony - Billing

Airport Carriers – Aegean / Goldair Wireless CRM

Free Wireless Access to Passengers for One Hour

Wireless Access to VIP Business Lounges

PRM Wireless Application

IP Wireless Phones

Wi-FI Mobile Applications to Asoc / Environmental

Free Wi-Fi for All Passengers - WIZ

AVL – Smart Bus Stop Application
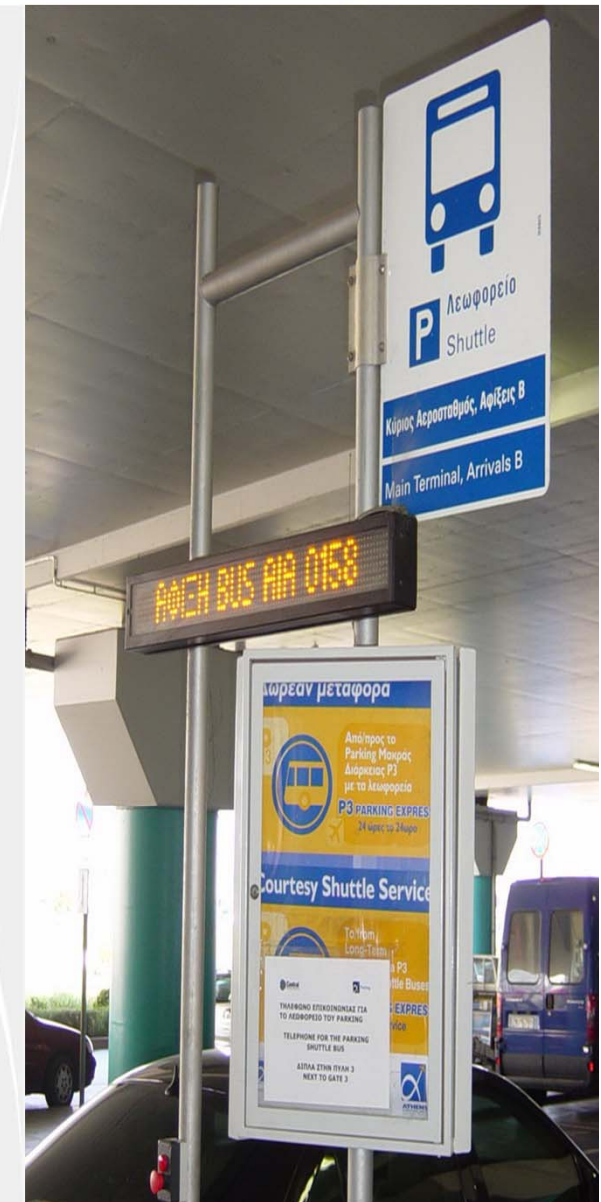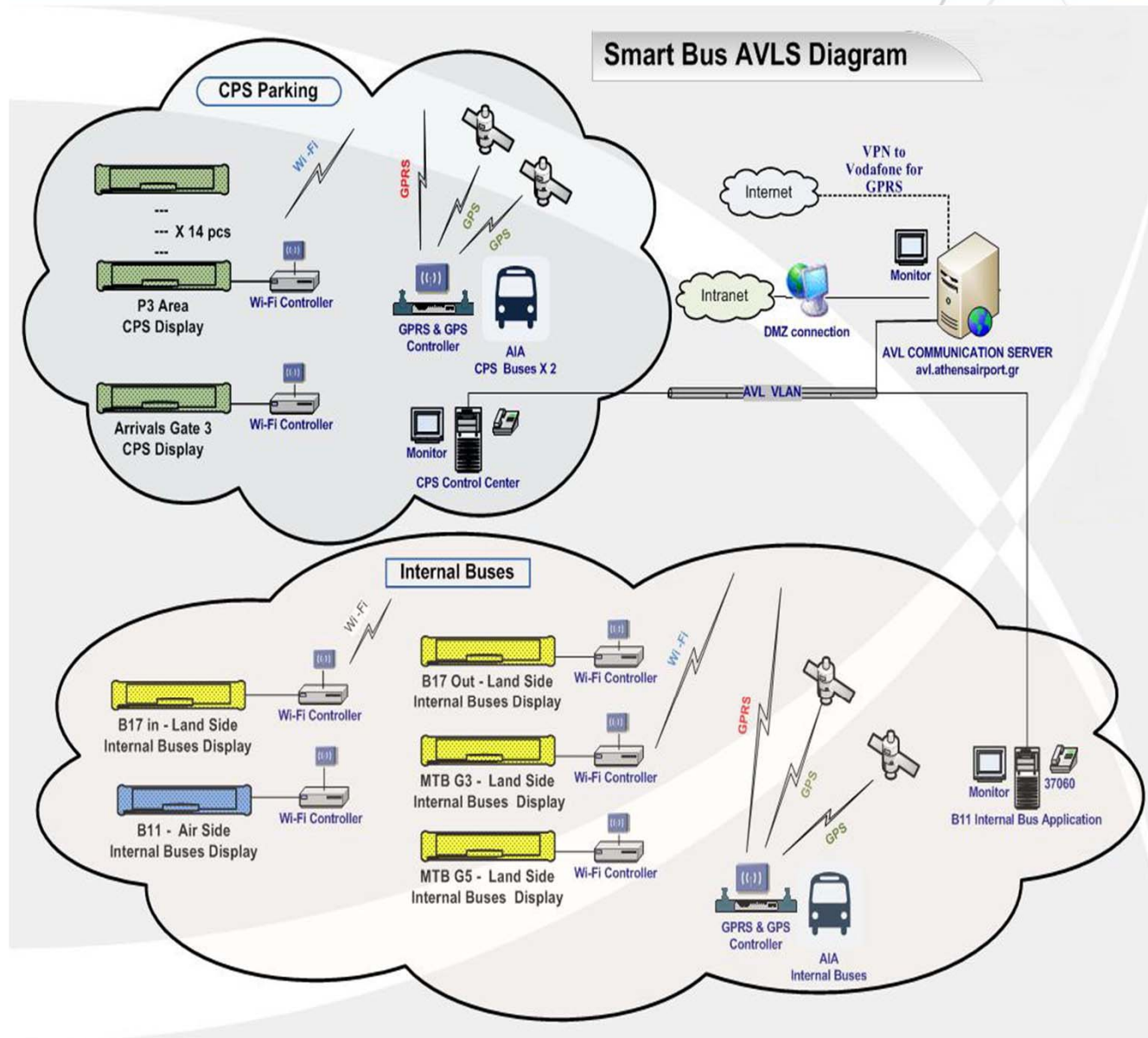
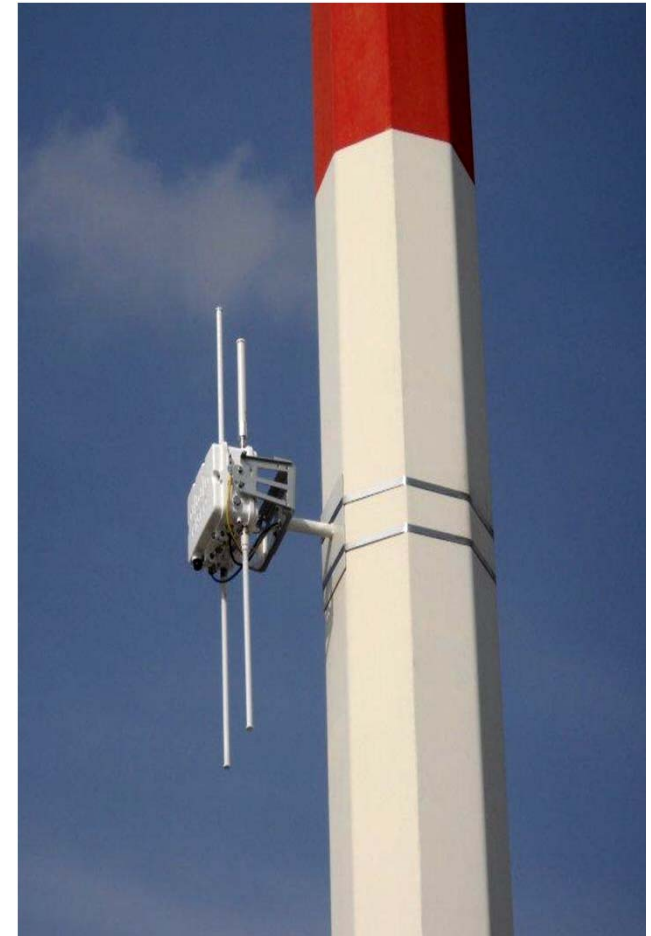# Voice Applications – PRM- BHS

Next steps

Next Steps

802.11g   802.11n

✓ **Upgrade of all Indoor Access Points to 802.11 N**

✓ **Transfer of GPRS – Tetra Applications to Wi-Fi**

✓ **Expand Location & Voice Applications**

✓ **Expand AIA Wi-Fi network to all peripheral clients**

(Leroy Marlin – Ikea – Factory Outlet e.t.c.) with

common infrastructure

THANK YOU

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