

# Samsung Wireless LAN

**Samsung Electronics**

# Wireless Devices are increasing

Mobile devices connected  
to wireless network in  
enterprise environment

1.2<sub>B</sub>

100% WiFi coverage

Office

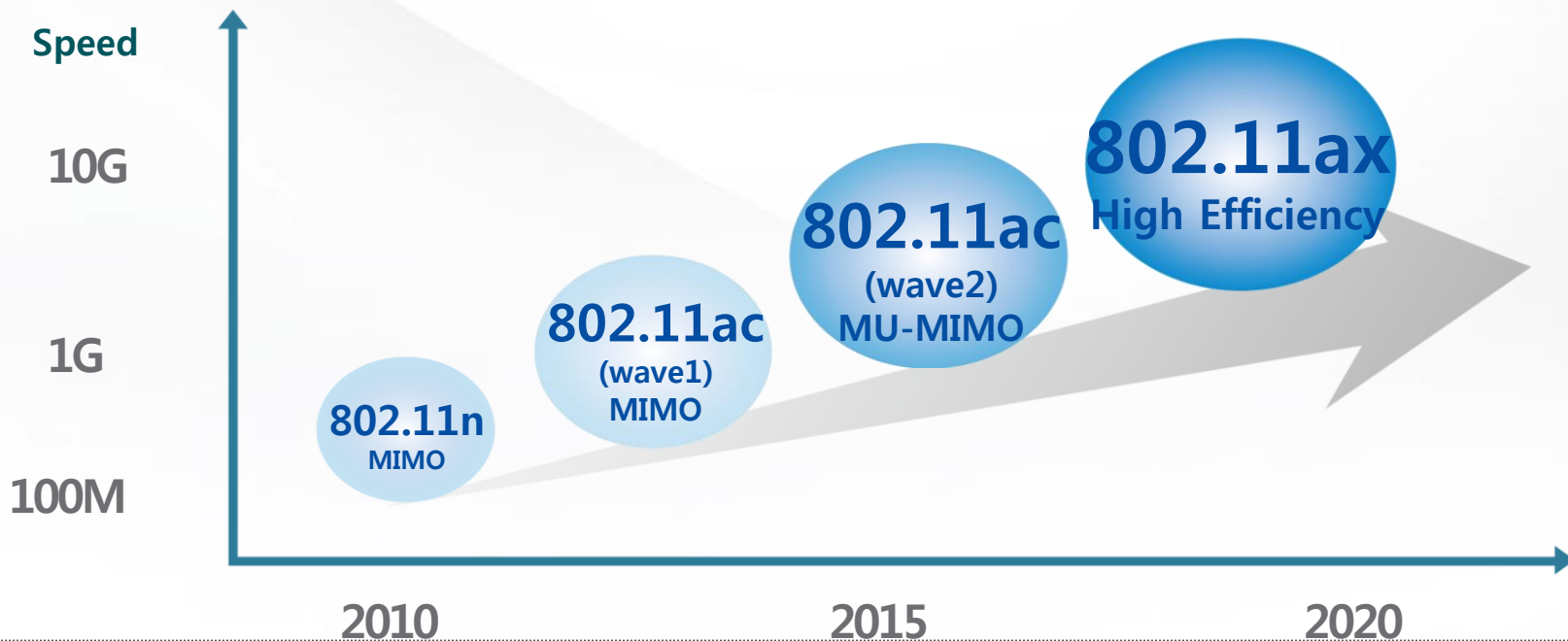
48 %



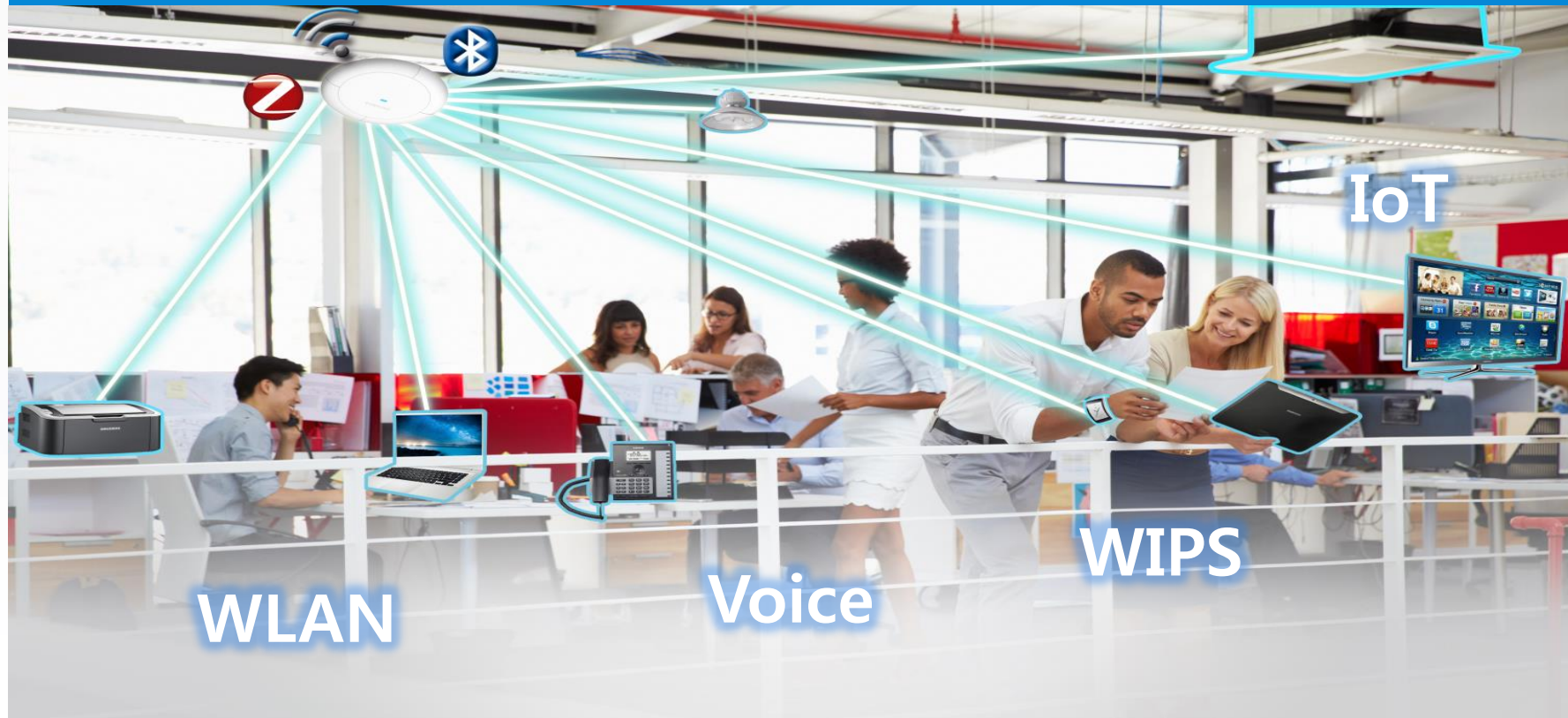
\* Gartner Forecast for 2014

# WiFi Technology

✓ Speed/Efficiency Improvement



# All Wireless Office Environment



# Samsung Wireless Enterprise

## ✓ Enterprise Wireless Total solution



# **Samsung WLAN**



# What's the problem ?

✓ **High Density Environment - WiFi Quality is poor**



# What's the problem ?

- ✓ Interference such as Home AP and Carrier Hot-spot





# What's the problem ?

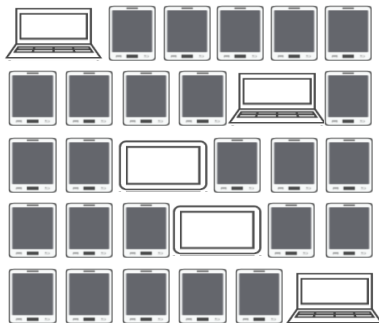
- ✓ WiFi is not secured network compare with wired infra



# Samsung WLAN Keywords

✓ Service Quality, Seamless Handover and Security

## Capacity



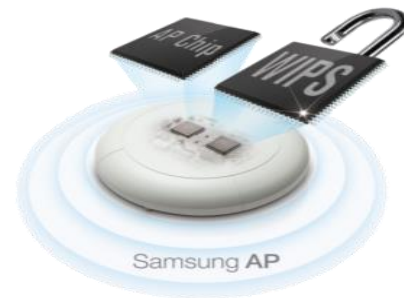
2 ×

## Mobility



Seamless  
Voice & Data

## Security



Built-in  
WIPS sensor

# WLAN Components

## Access Point



**Standard**



**Security**



**IoT**



**Outdoor**



**Mesh**

## AP Controller



**Enterprise**



**SMB**

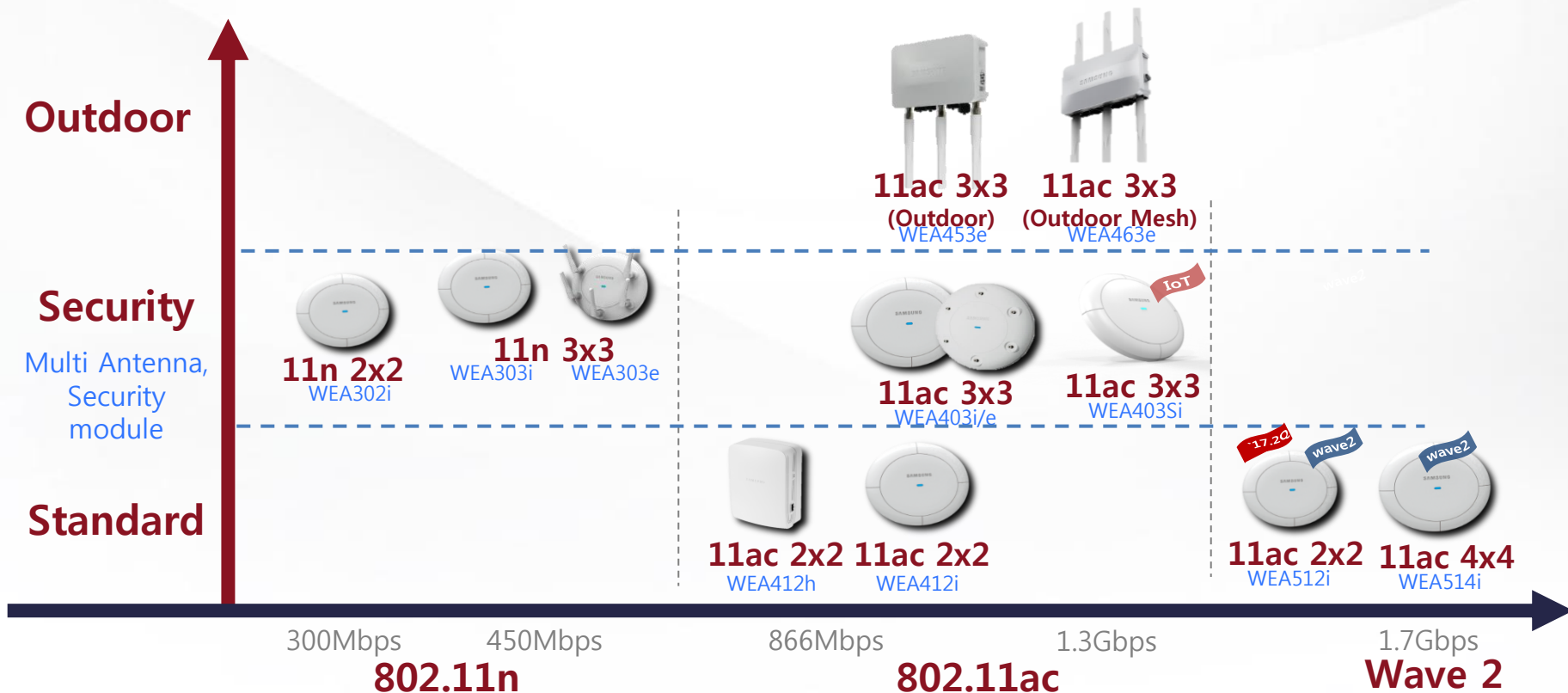
## NM

S



**WLAN Manager**

# Samsung AP Line-up



# Access Point - Standard

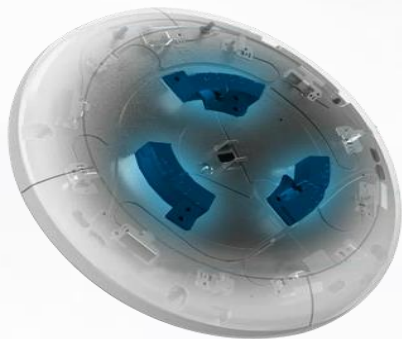


- ▶ **Enhanced Data Throughput in High-Density**
- ▶ **Concurrent Dual Radio (2.4Ghz/5Ghz)**
- ▶ **Enhanced Data Throughput in High-Density**  
**(1.3Gbps(11ac, Wave1), 1.7Gbps(11ac Wave2)**
- ▶ **Remote AP Support**
- ▶ **Attractive Circular Design**



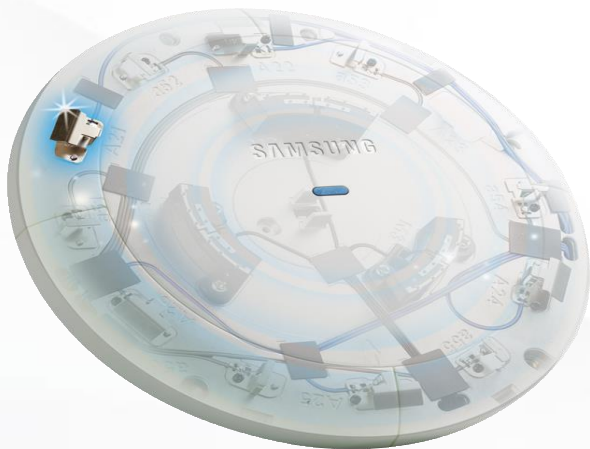
# Access Point - Security

## ✓ Quick & Precise Security Monitoring AP

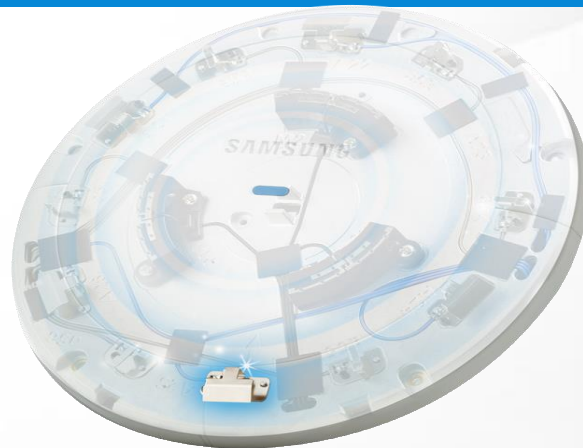


- ▶ Full Time Sensing (Real Time Monitoring)
- ▶ Integrated Security Module
- ▶ Savings on CAPEX by 30%
- ▶ Location Tracking
- ▶ RF Spectrum Analysis

# IoT AP



**BLE**



**Zigbee**

- Integrated BLE, Zigbee Sensor
- LBS by BLE Beacon

# High Capacity AP Controller



- ▶ **Flexible Structure (Centralized/Distributed mode)**
- ▶ **Supports up to 3,000 APs**
- ▶ **Automatic Cell Optimization**
- ▶ **Built in Firewall/Authentication Server**

# SMB AP Controller



- ▶ **Flexible Structure (Centralized/Distributed mode)**
- ▶ **Supports up to 200 Aps(Distributed mode)**
- ▶ **Automatic Cell Optimization**
- ▶ **Built in Firewall/Authentication Server**

# WLAN - User Friendly Management S/W



- ▶ Integrated Wired & Wireless Management
- ▶ Manage up to 3,000 APs
- ▶ Remote AP Reset Function
- ▶ Remote Monitoring via Mobile Device
- ▶ Customized Reports



# Key Differentiators

# AirEqualizer – Traffic Scheduling

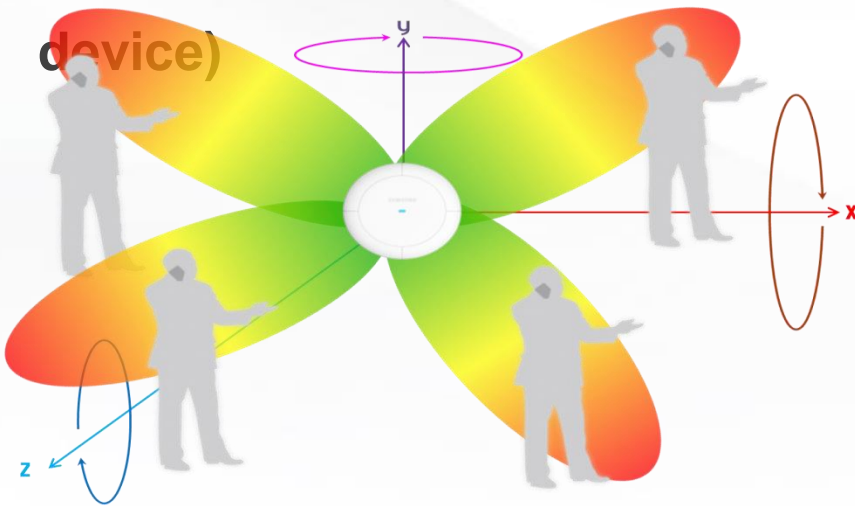
- ✓ **Guarantee performance with Airtime Fairness scheduling in High-density environment**



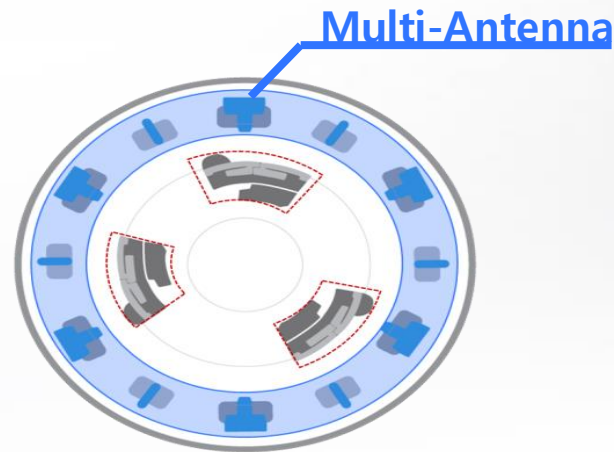
- **Apply LTE traffic scheduler**
- **Airtime Fairness**
- **Efficient in High-density environment**
- **Provides optimum wireless service by allocating equal airtime to each device**

# Intelligent Beam Selectable Antenna

- ✓ Overcomes environment obstacles providing robust service to all devices (Beam forming is applied for the 802.11ac device)



**Optimized Beam Pattern  
based on mobile location**



**15ea Antenna  
(WiFi Service 12ea + Security 3ea)**

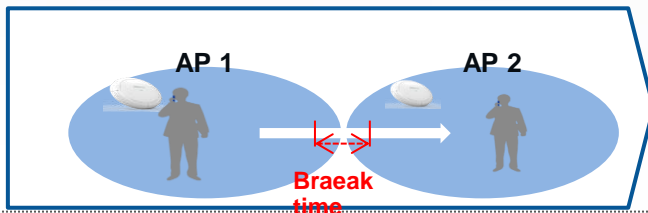
# AirMove

✓ Seamless Handover technology applied LTE handover

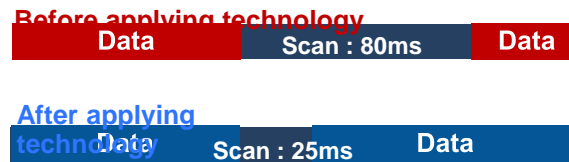
scheme



Network-controlled Handover



Buffered Data Forwarding





타사 AP접속



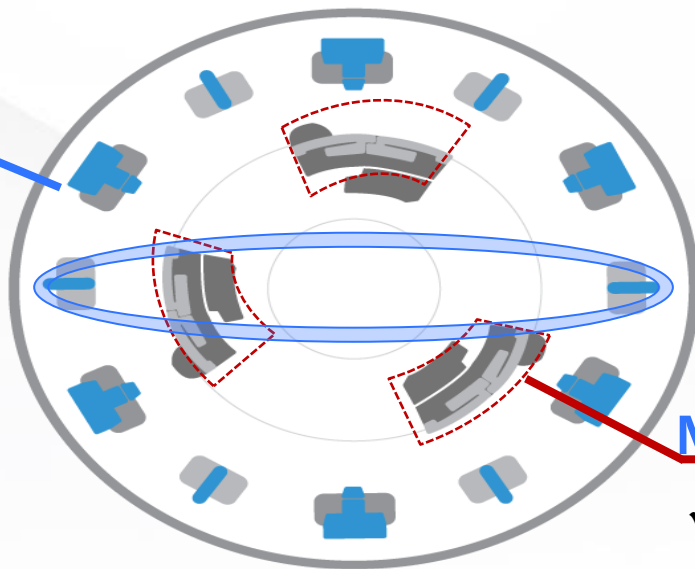
자사 AP접속



# Exclusive Antenna for security

## Multi-Antenna

- ✓ 12 antennas for service
- ✓ Separate antennas for 2.4 GHz and 5 GHz



## Monitoring Antenna

- ✓ 3 Exclusive antenna for security

# References

# References (2)

## Enterprise



**Bitexco and PVI  
Tower (Vietnam)**



**SEVT Thai Nguyen  
(Vietnam)**

## Finance



**Kyobo Life  
Insurance (KOR)**

## Public



**Gangwon Provincial  
Office (KOR)**

## Healthcare



**Samsung Medical  
Examination Center  
(KOR)**



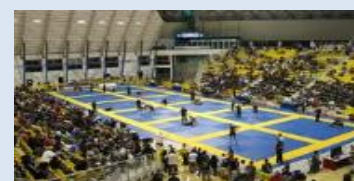
**Small Steps  
Day Care Center  
(NED)**

## Distribution



**IGUS  
Warehouse  
(NY, US)**

## Stadium



**Long Beach State  
Stadium (CA, US)**

# Thank You

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