

OmniAccess® Stellar WLAN

Go Mobile! Go IoT!

■ Network Business Division

ALE

Where
Everything
Connects

Alcatel-Lucent
Enterprise



Emerging/SMB
AP1101



High-range
AP1231
AP1232



Mid-range
AP1221
AP1222



Outdoor
AP1251

OmniAccess® STELLAR WLAN

Distributed intelligence
architecture

Cloud enabled
Unified Management

Designed for
Unified Access

BYOD

Integrated
Guest Management

OmniAccess® Stellar key values

Enterprise controller-less WLAN solution with operational **simplicity** and **low TCO**



■ **Performance:** High speed WiFi supporting high density of devices with reliable connection, best radio coverage and fast roaming



■ **Design:** Revolutionary distributed intelligence architecture for high performance, availability and scalability



■ **Users:** Easy connectivity, excellent and secure user experience for employees and guests

■ **IoT:** Unique IoT containment technology, securely and automatically connect any device

■ **Management:** Cloud* or local management granting native unified access for LAN & WLAN to easily set the best quality of service

■ **Analytics:** Smart monitoring and control for users, devices and applications, empowers company to drive strategic business decisions

**Future proof solution built on latest technologies, innovations and services,
to better protect your investment**



Performance & Design

4

OmniAccess®
STELLAR
WLAN

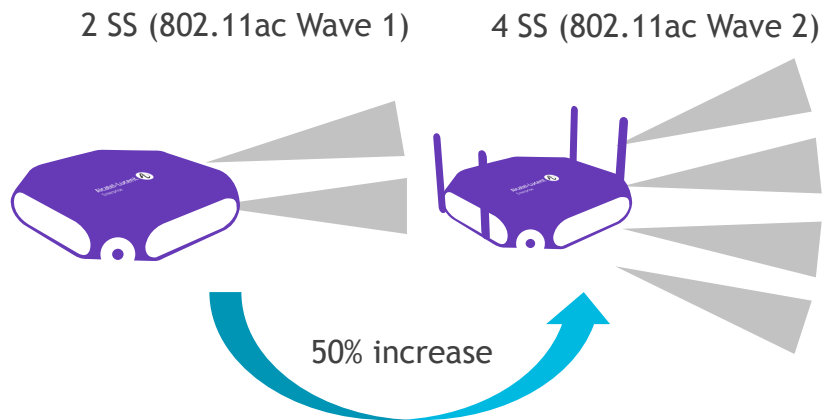
Alcatel·Lucent 
Enterprise

OmniAccess® Stellar WLAN

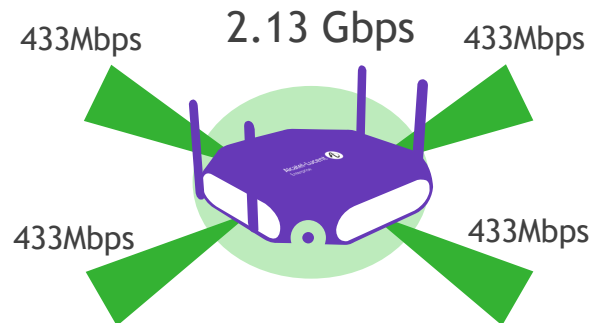
802.11ac Wave 2 brings more speed and throughput



Four Spatial Streams



Improved throughput



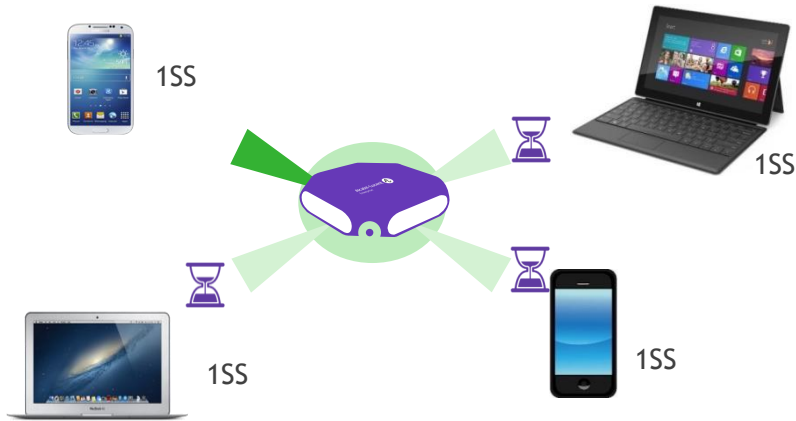
More spatial streams and more bandwidth per stream

OmniAccess® Stellar WLAN

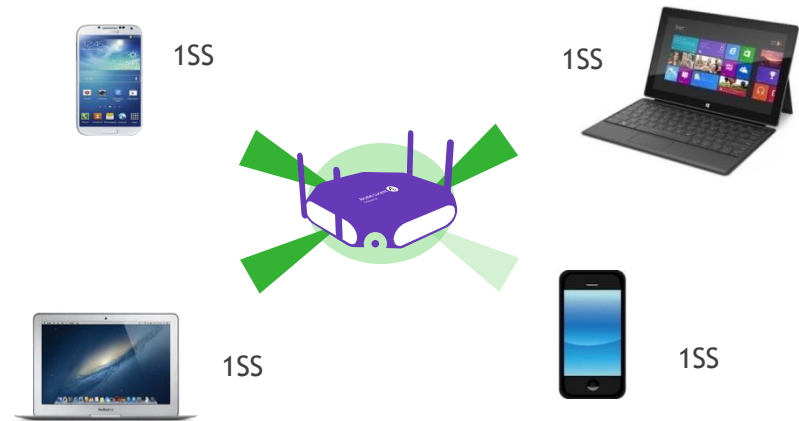
MU-MIMO brings better experience in high density areas



SU-MIMO (802.11ac Wave 1)



MU-MIMO (802.11ac Wave 2)



Higher density of devices and lower latency

OmniAccess® Stellar WLAN

AP123x: unique 3 radio access points



Excellent user experience in high density device environments

OmniAccess® Stellar WLAN

802.11ac Wave 2 enables more mobile applications



2D

imaging

3D

SD video surveillance

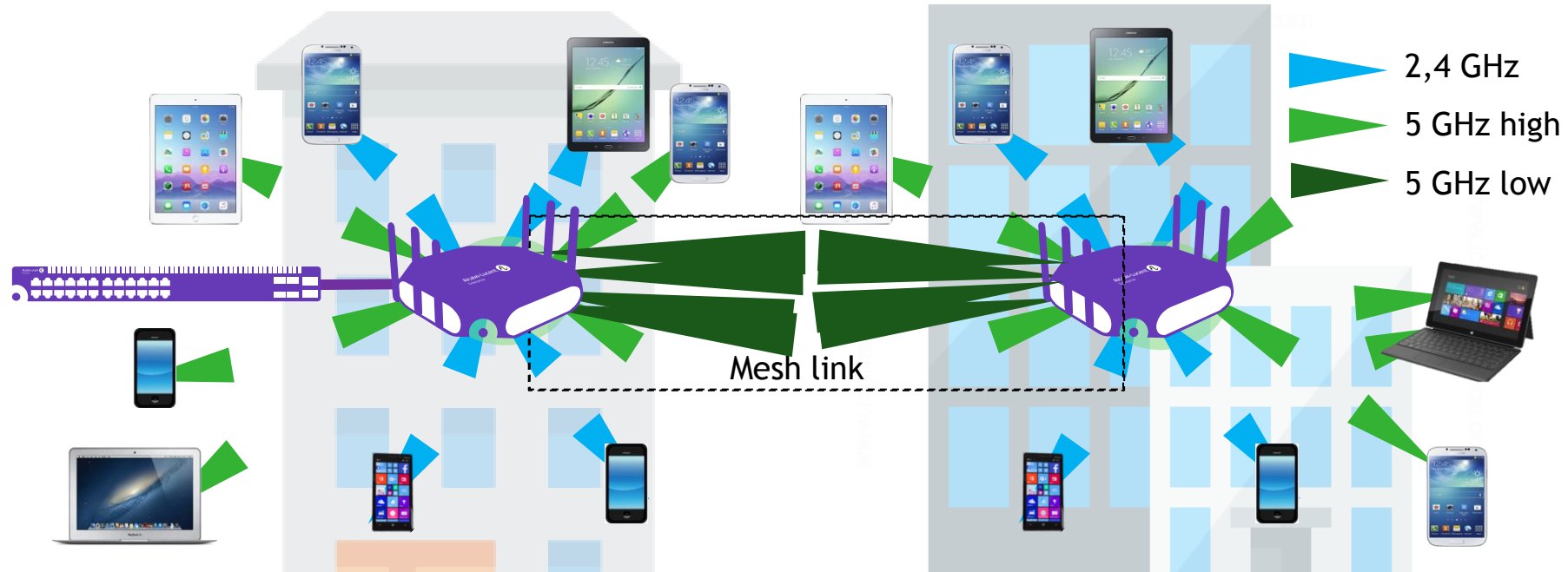
HD



An excellent quality of experience

OmniAccess® Stellar WLAN

Installation versatility - Mesh (Q4 2017)



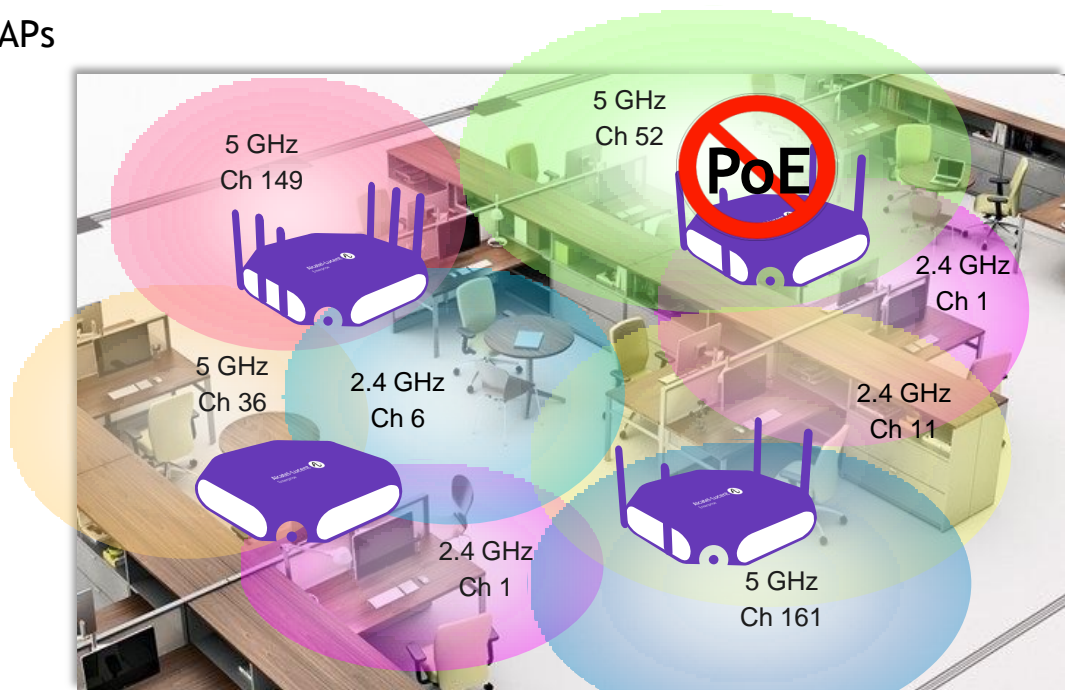
Easy installation with dedicated bridging radio link

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Distributed intelligence - Best radio performance



- Automatic intelligent radio optimization
- Coordination among neighboring APs
- Dynamic coverage adjustment to counteract AP failures
- Easy to scale - automatic management of new APs



Distributed intelligence

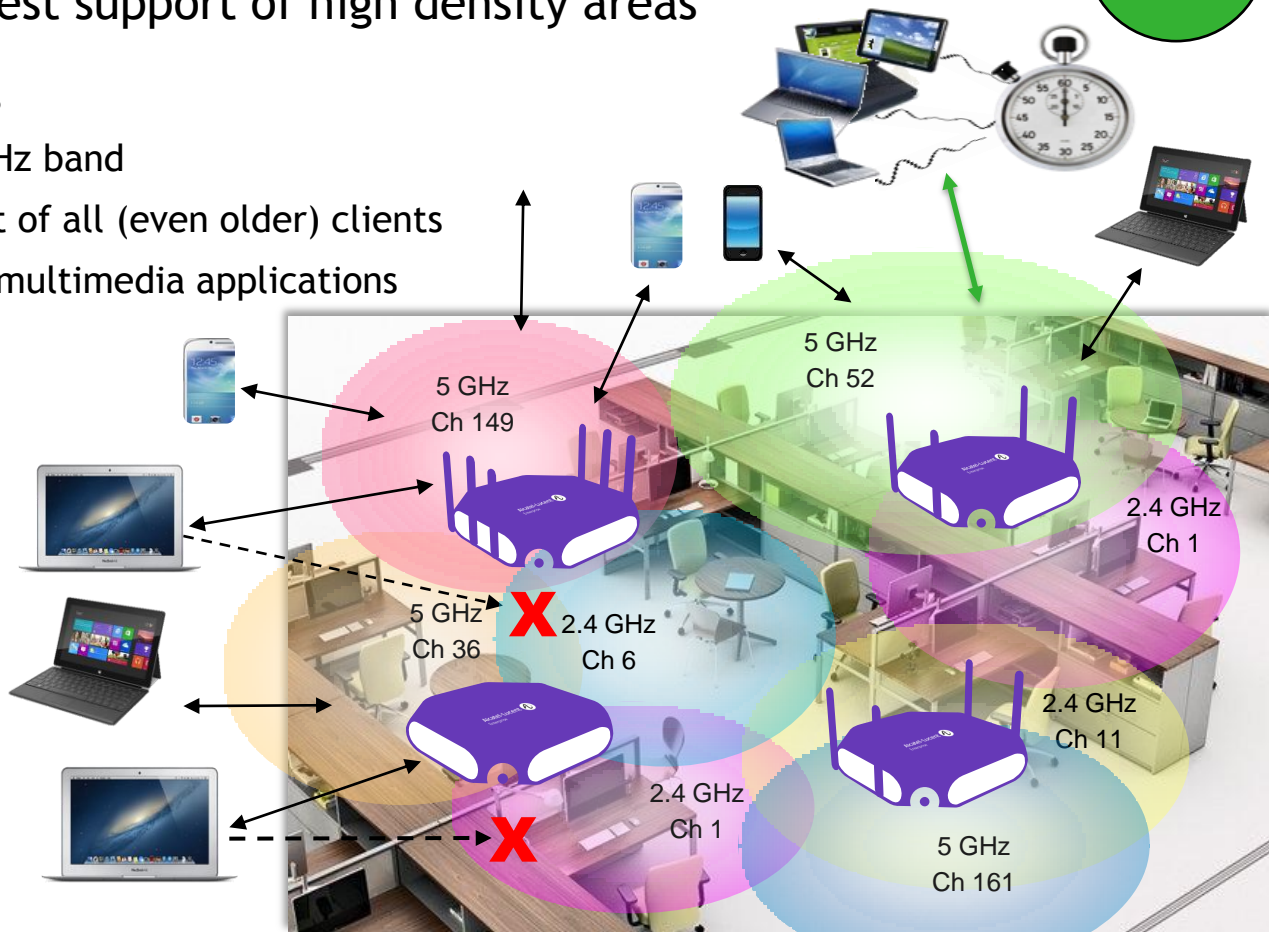
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Easy deployment

OmniAccess® Stellar WLAN

Distributed intelligence - best support of high density areas

- Best client distribution among APs
- Band Steering - Priority to the 5GHz band
- Airtime Fairness - Optimal support of all (even older) clients
- Fast roaming - better support for multimedia applications

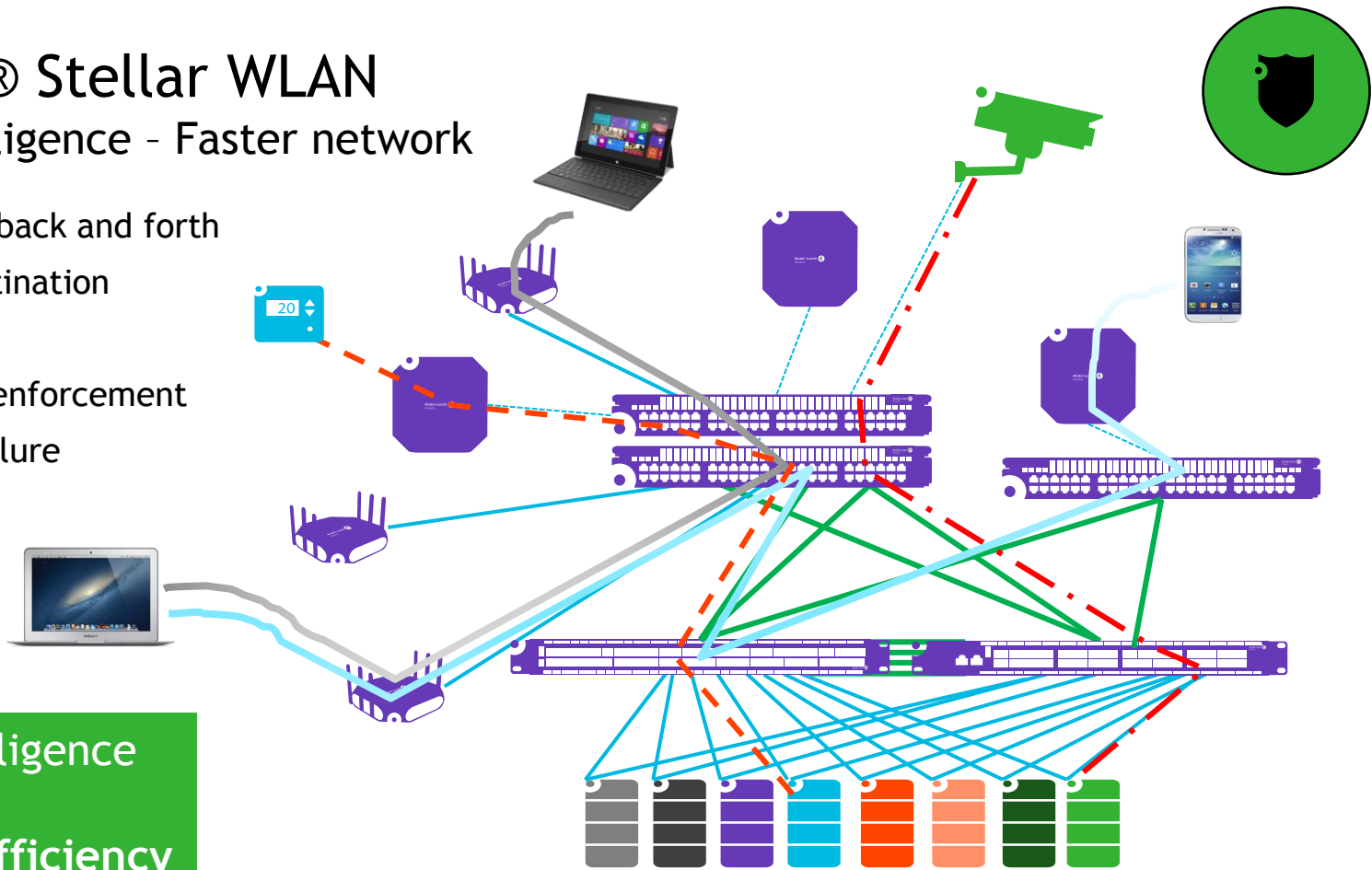


Distributed intelligence
=
Best quality of experience

OmniAccess® Stellar WLAN

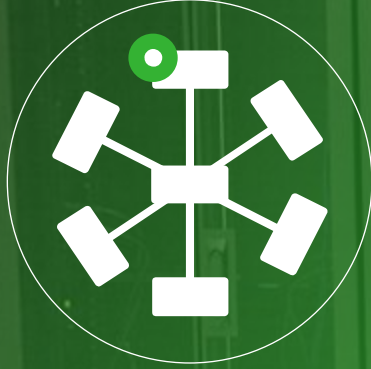
Distributed intelligence - Faster network

- No traffic trombone back and forth
- Shortest path to destination
- Lower latency
- Quicker QoS, policy enforcement
- No single point of failure



Distributed intelligence
=
Higher network efficiency





WiFi Express

Standalone mode, up to 64 APs



WiFi Enterprise

Managed mode, up to 512 APs

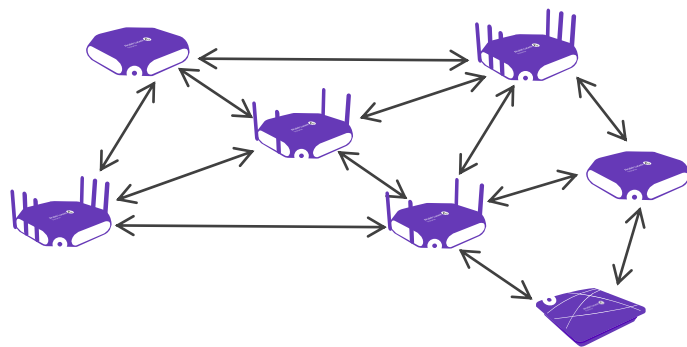


Evolutionary design
grow your WiFi at your own pace

WiFi Express - Standalone cluster deployment



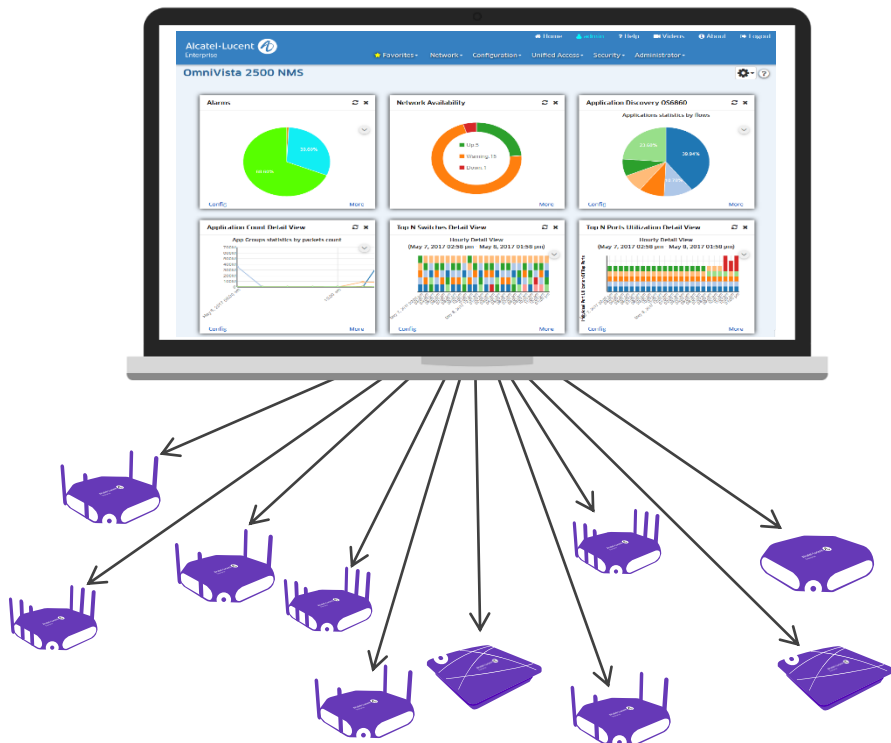
- Self managed standalone cluster
- Integrated secure Web managed
- Wizard driven configuration
- Integrated Guest captive portal
- Distributed intelligence control
- Self configured AP cluster, up to 64 APs*
- Wireless security (wIDS/wIPS)



* Limited to 32 per cluster for AP1101

Easy deployment, scaling up to 64 APs

WiFi Enterprise - Central managed deployment



- OmniVista 2500
 - Local or Cloud*
 - Unified wired-wireless
 - Access Management (Guest/BYOD)
 - Policy based management engine
- Smart Analytics
- Distributed intelligence control
 - Up 512 APs right now, 1000+ (future release)
- Advanced wireless features
 - WLAN topology on a map and heat map
 - Wireless security (wIDS/wIPS)
- WLAN infrastructure high availability: OV2500 is needed only for configuration & client authentication

Central unified management for larger deployments



Users & IoT

User on-boarding

Easy and secure 3-step connection

1. Select

Network Access



Local - remote - social



3. Connect!



User Experience

- Self-service connectivity
- Windows, Mac, iOS, Android

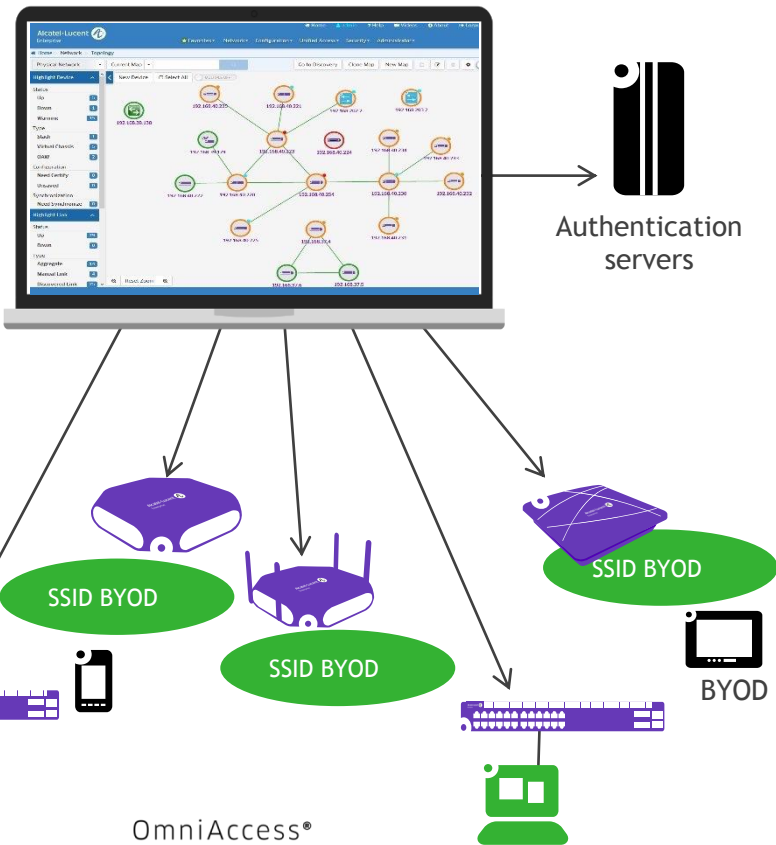


Impact on IT

- Reduce time to provision devices
- Allow faster updates



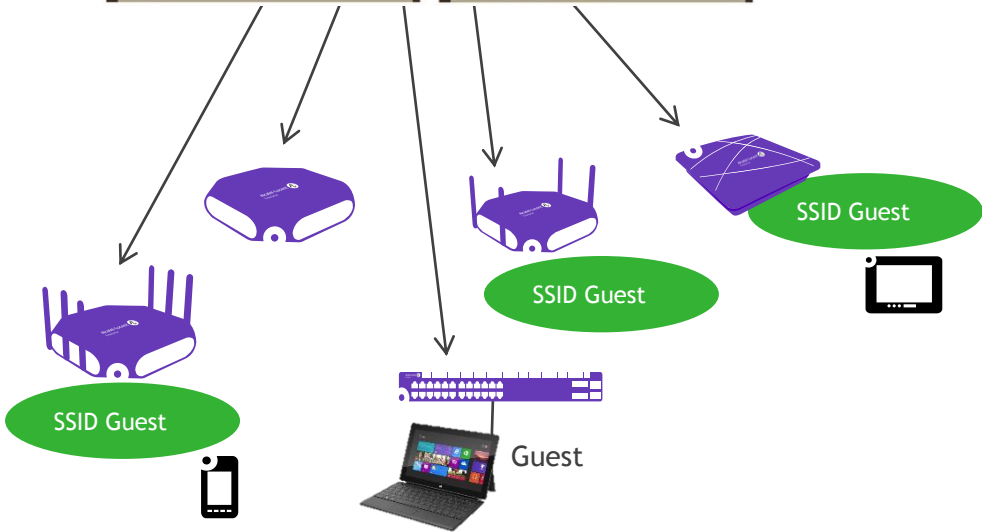
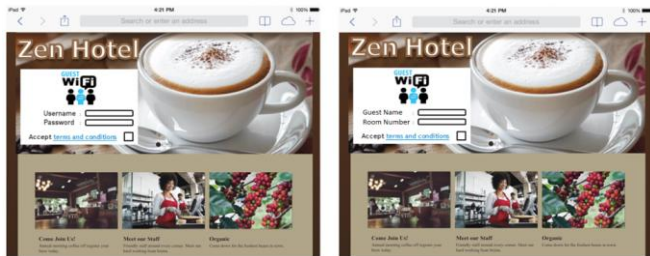
Employees: Bring Your Own Device (BYOD)



- Automated on-boarding of employee devices
 - Device Fingerprinting
 - Corporate authentication
- Highly integrated solution
- Resilient devices database
- Login once, securely connect forever

Easy employee device(s) on-boarding
Integration with corporate servers

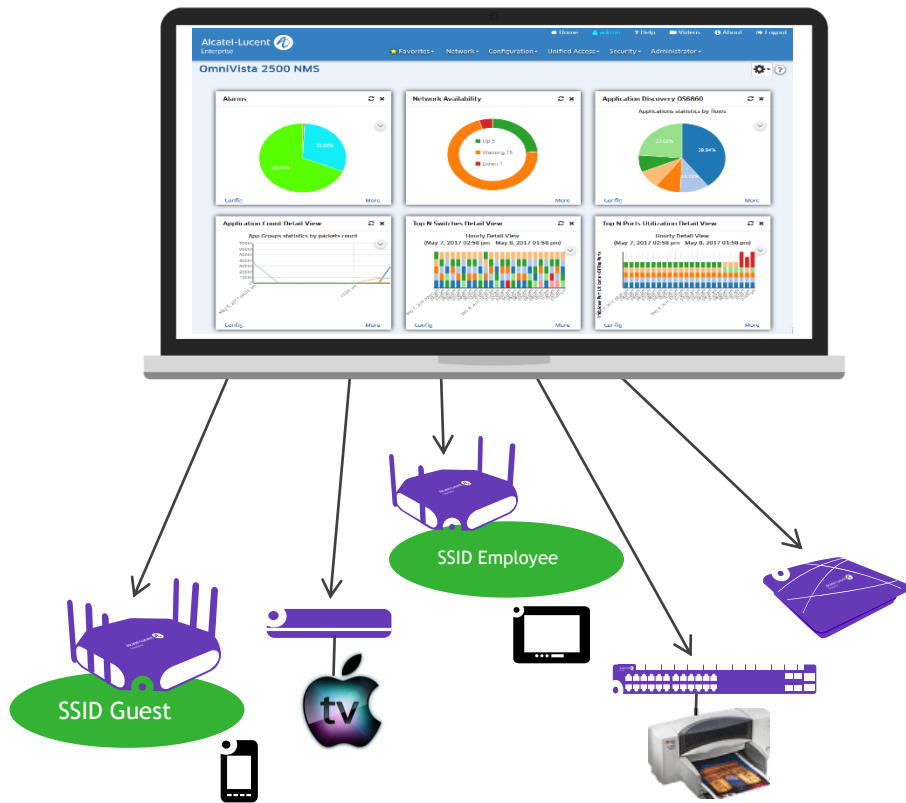
Guest Management



- Secure Guest Access
- Automated credential creation
 - By Guest Operator
 - By Sponsor Employee
 - By Guest self-registration
 - Pre-set Guest
 - Social login (Facebook,...)
- Guest portal branding and customization
- Guest traffic segregation
- Resilient guest database

Simple and secure guest management

Automatic IoT device on-boarding



Policy based device management

- Discovery of services (printers, media players...)
- Rules can be created based on:
 - Location
 - User group
 - Identity

- Available on both wired and wireless devices
- Support for UPnP and Bonjour

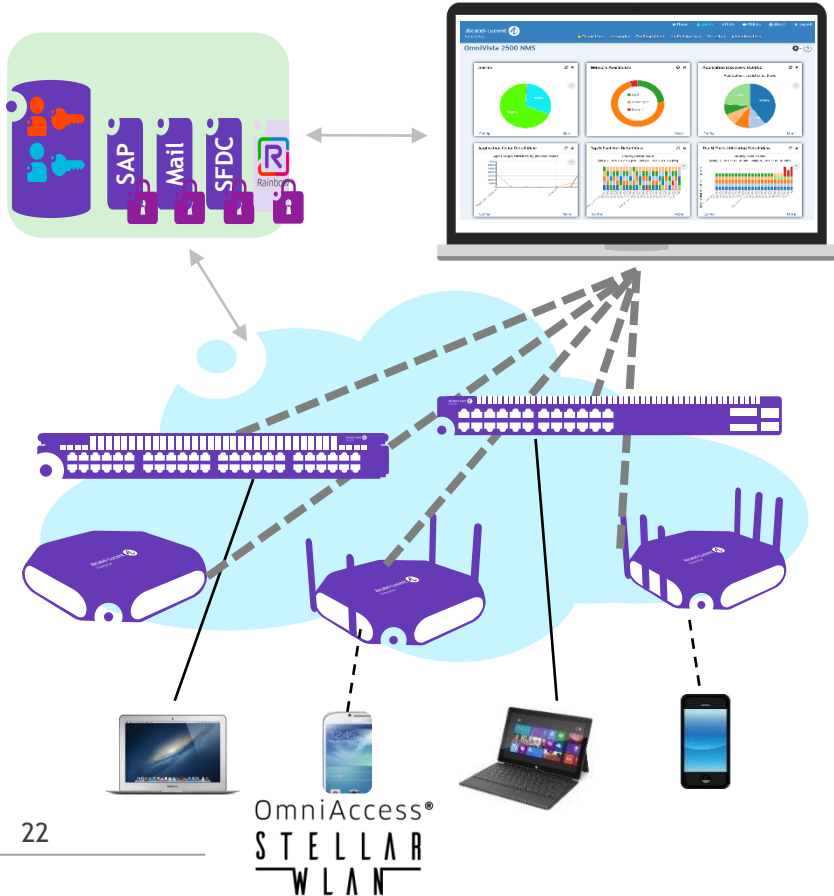
Industry standards support to easily and securely on-board compliant devices



Management & Analytics

Unified network management

OmniVista 2500: operational simplicity



- Single LAN and WLAN management system
- Unified access policy based management for users and IoT
 - Unified network role
 - Consistent QoS
- Embedded authentication server
 - Corporate credentials for single sign-on (SSO)
 - Integrated Captive Portal

Consistent user experience
Improved network security
Automatic Quality of Service
Operational simplicity: reduced IT effort

Perfect access layer for any IoT device

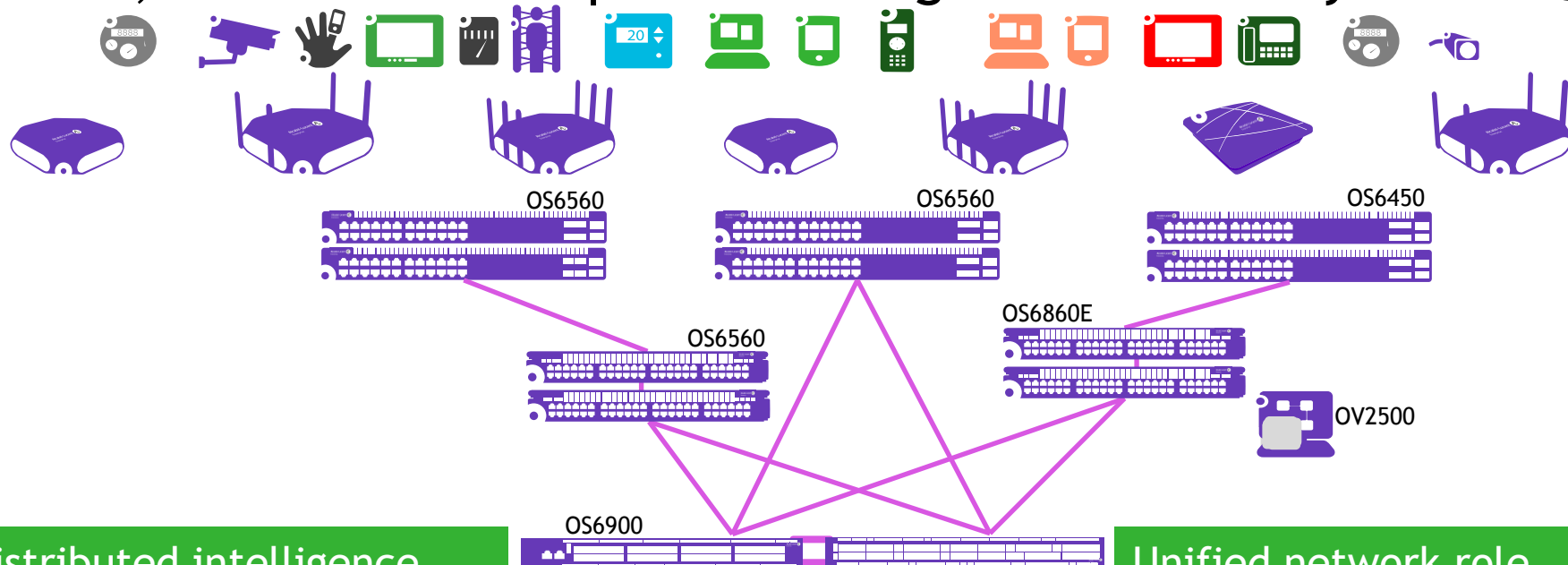


Distributed intelligence
Best security
Simple to operate

Easy deployment
Works on top of other vendors as well



With ALE LAN, users, devices and IoT profile management at all layers

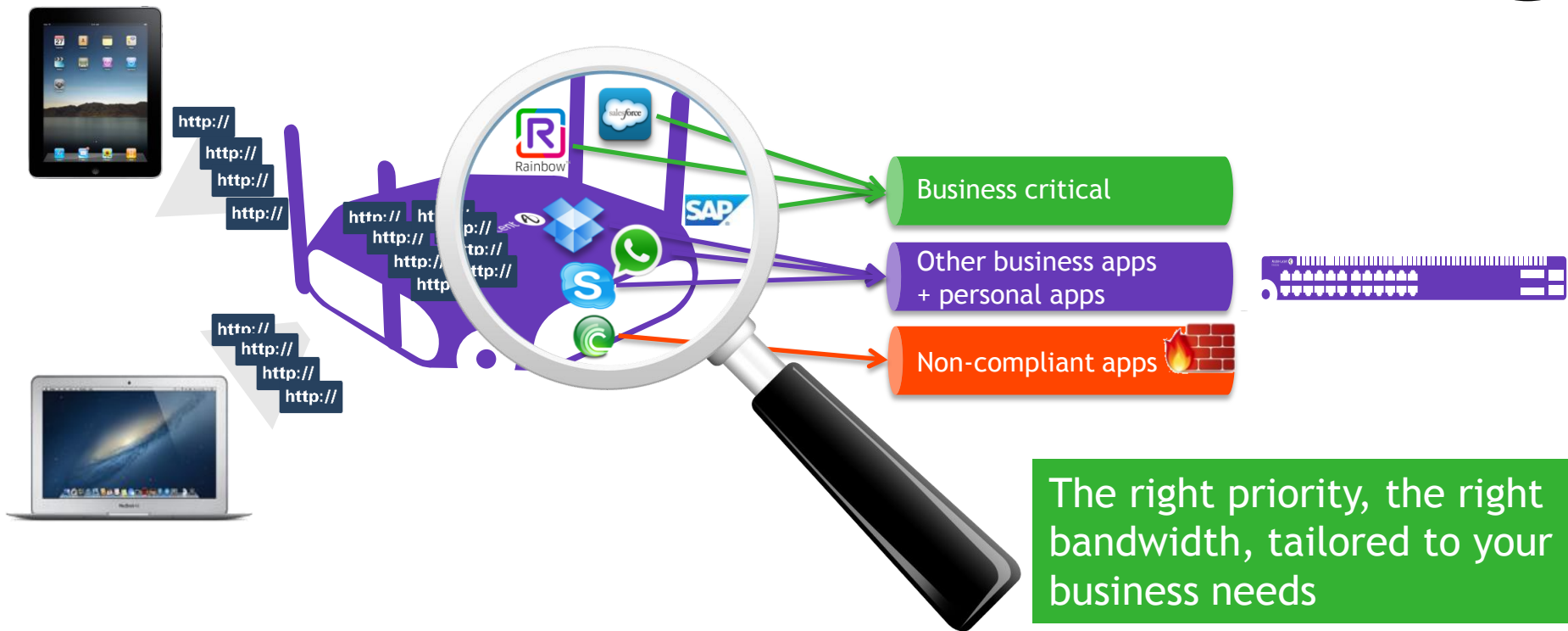


Distributed intelligence
Best security
Simple to operate

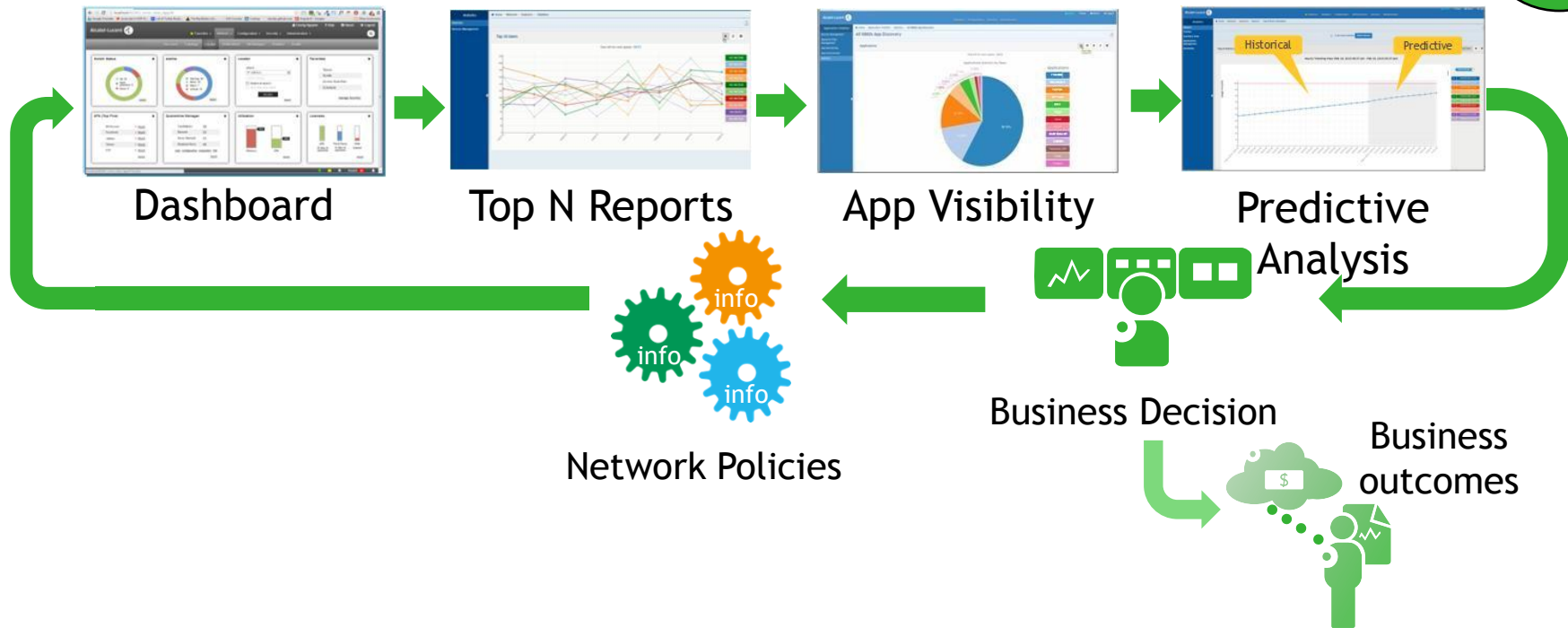
Unified network role
Single profiles for users,
devices and objects



Application visibility & enforcement over the air!



Smart Analytics drive business decisions



Analytics drive pro-active IT actions and business initiatives



Key takeaways

OmniAccess® Stellar WLAN

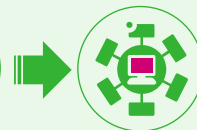
Distributed intelligence



Simple deployment
High security, resiliency, performance
Simplified operations, low TCO

Evolutionary & scalable

WiFi Express
Up to 64 AP



WiFi Enterprise
Managed mode, up to 512 APs*

** OV 2500 will be able to manage more than 1000 APs by end of 2017 and few thousands later*

Users & IoT integrated management



BYOD Automated onboarding of employee devices
Device fingerprinting for secure access



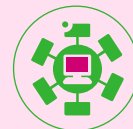
Guests and Users management



Integrated AAA services and external AD & LDAP
Captive portal with PMS integration

Comprehensive local or cloud* management

Single pane for LAN & WLAN management
Unified Access: Policy based management engine
Advanced Network Services Control



** OV 2500 Cloud version will be available later*

Simple, best in class performance with low TCO

OmniAccess® Stellar Access Point Lineup



AP1101

802.11ac Wave 1

2 radios

2x2:2SS

1.2 Gbps throughput

No BLE

1 GE port

256/32 : max/suggested clients

10 W (802.3af PoE or DC)

Operating Temp: 0°C to 45°C



AP1221/AP1222

802.11ac Wave 2

2 radios

2x2:2 @ 2.4GHz, 4x4:4 @ 5GHz

2.2+ Gbps throughput

Optional BLE radio through USB port

1 GE Port

512/75 : max/suggested clients

18,5W (802.3at 2pair PoE or DC)

Operating Temp: 0°C to 45°C

App monitoring & control / DPI



AP1231/AP1232

802.11ac Wave 2

3 radios

4x4:4 @ 2.4GHz, dual 4x4:4 @ 5GHz

4.2+ Gbps throughput

Integrated BLE radio

1xGbE + 1x2.5GbE network interfaces

768/125 : max/suggested clients

<31W (802.3at 4pair or DC)

Operating Temp: 0°C to 40°C

App monitoring & control / DPI



AP1251

802.11ac Wave 2

2 radios

2x2:2 @ 2.4GHz, 2x2:2 @ 5GHz

1.2 Gbps throughput

No BLE

2xGbE network interfaces

512/75 : max/suggested clients

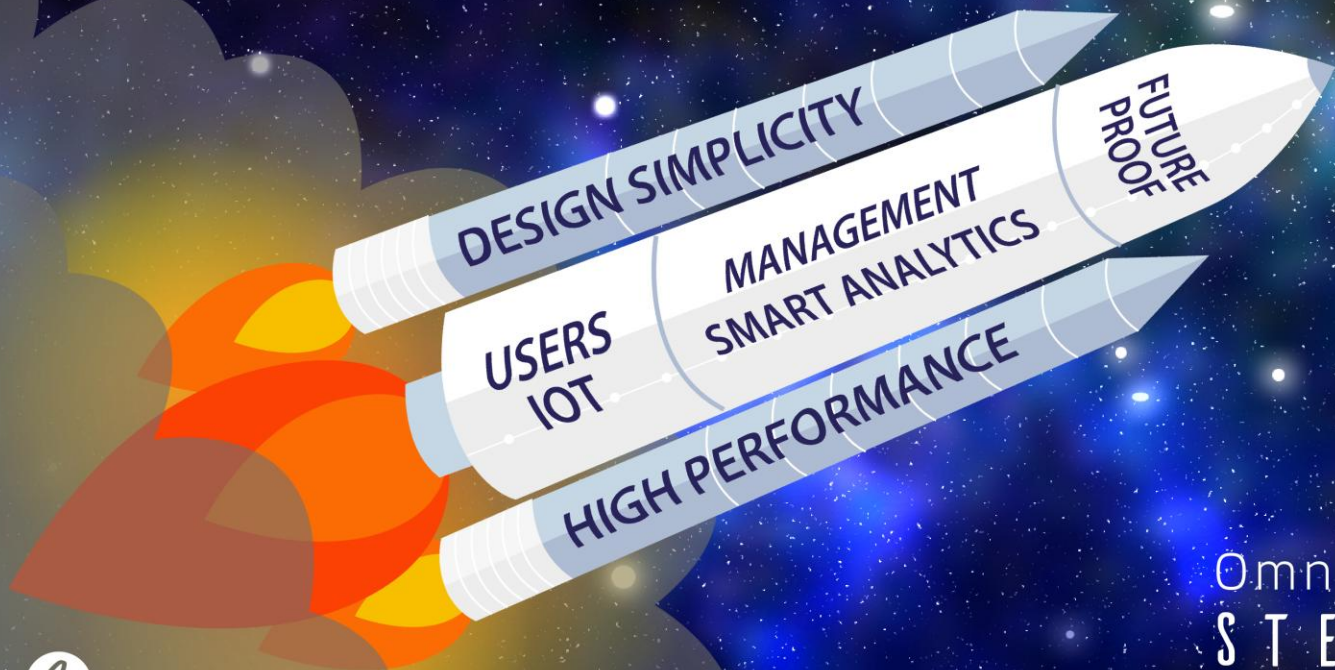
<12W (802.3af PoE)

Operating temperature : -40 to 65°C

App monitoring & control / DPI

Enterprise WLAN solution

- consumer grade simplicity, low TCO -

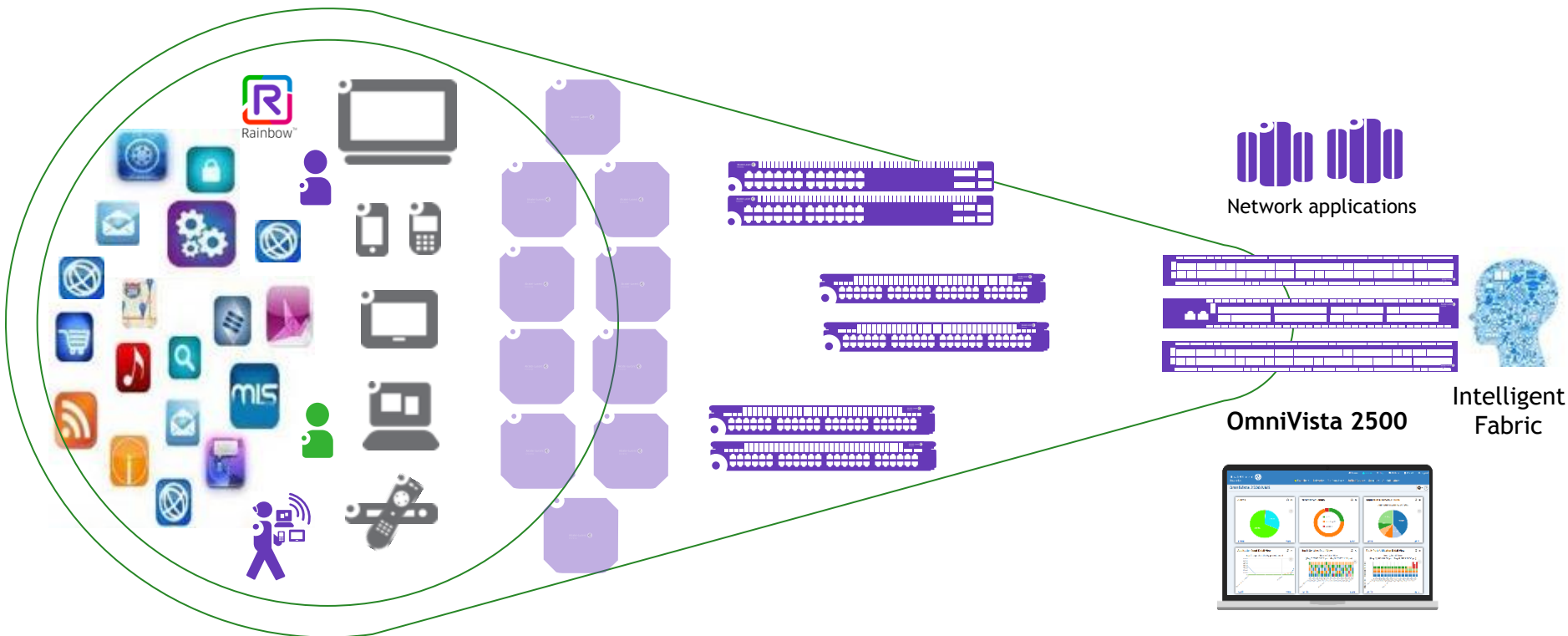


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OmniAccess®
STELLAR
WLAN

OmniAccess® Stellar WLAN - A new paradigm in wireless



Seamless mobility Secure access Unified management Intelligent fabric Smart analytics



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