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ICT SUMMIT COLOMBIA 2024

Explorando Inteligencia, Digitalización y Sustentabilidad para el Futuro del ICT.

MAYO

MARTES 28 Y MIÉRCOLES 29
Agora Bogotá Centro de Convenciones
Bogotá | Colombia

ORGANIZA:
LATAM RED

VIRTUALIZACION E INTELIGENCIA DE REDES

Miguel Santos
Network Sales Engineer
Northern South America
Allied Telesis Inc.

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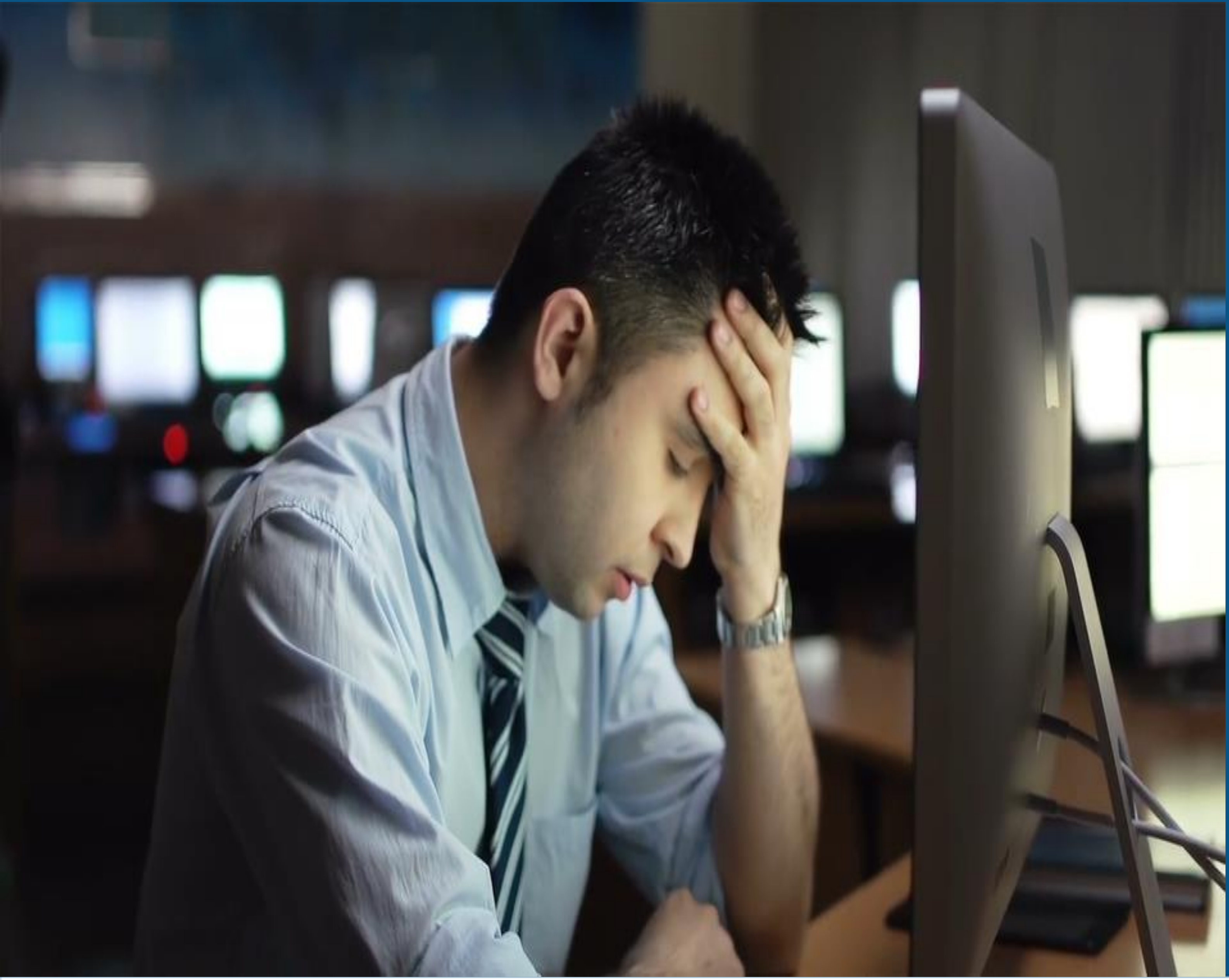
What we'll Cover

- Desafíos en la administración de redes
- Tecnologías

Desafíos en la administración de redes



- Crecimiento de redes locales
- Expansión hacia la nube
- Conexiones remotas
- Alta disponibilidad
- Dispositivos IoT, IIoT & Wereables
- IIoT: impacto en el 62% del PIB en los países del G20

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5 DESAFÍOS

1. Adaptarse a las demandas de redes hibridas
2. Planeación estrategica
3. Seguridad y fiabilidad de las redes
4. Visualizacion de la infraestructura de TI
5. Estrategia de red inteligente y Automatizada

1. Adaptarse a las demandas de redes Hibridas

- Flexibilidad, convergencia, escalabilidad y resiliencia
- Arquitecturas nuevas requieren herramientas adecuadas
- Conexion de dispositivos remotos, locales y móviles
- Equipos que simplifican la adm y balanceo de tráfico
- Permitir un servicio de red ininterrumpido con rendimiento óptimo.

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2. Planeación de redes estratégica

- Virtualización y redes SDN
- Incremento de OpEX
- Crecimiento de redes WiFi
- Herramienta con “todas” las características disminuyen los downtimes de red y el OpEX.

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3. Seguridad y Fiabilidad de las redes

- Crecimiento y dinamismo de redes
- Automatizacion de procesos
- Inteligencia de los firewall llevada a los puertos de red

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4. Visualización de la infraestructura de TI

- Multiplatform network
  - Network Monitoring
  - Network Administration
  - Wireless Controller
  - Heat Maps
  - Traffic Analyzer
  - Self-Defending Network
  - SD-WAN

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5. Estrategia de red inteligente y automatizada

PROCESS
AUTOMATION
TECHNOLOGY
INNOVATION
PRODUCTIVITY

- Automatización de tareas repetitivas
- Ahorro en el tiempo para el personal de TI
- Inteligencia en los procesos de red
- Accesos no autorizados

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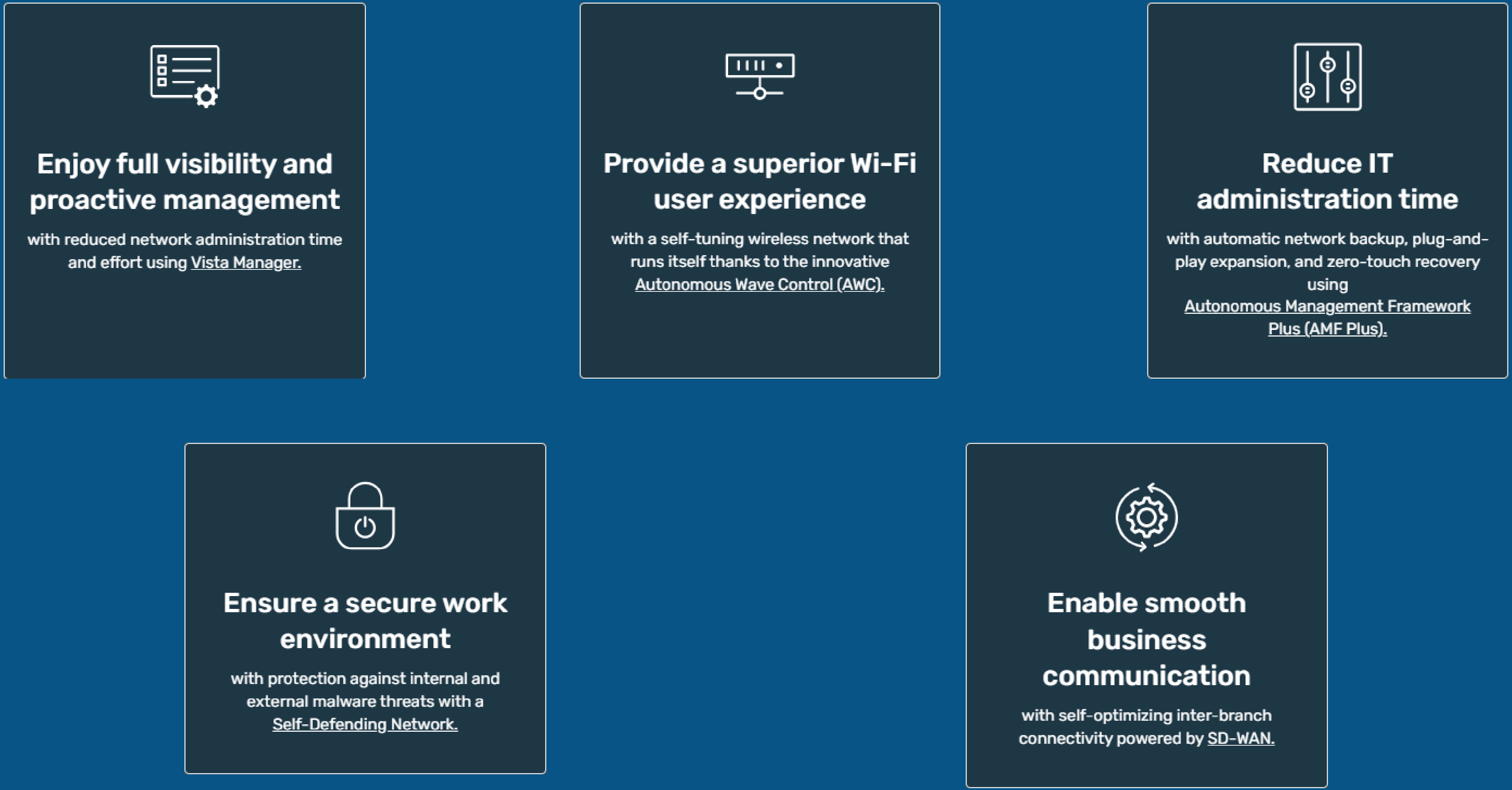
Tecnologias: 5 aspectos...



Enjoy full visibility and proactive management

with reduced network administration time and effort using Vista Manager.

Provide a superior Wi-Fi user experience

with a self-tuning wireless network that runs itself thanks to the innovative Autonomous Wave Control (AWC).

Reduce IT administration time

with automatic network backup, plug-and-play expansion, and zero-touch recovery using Autonomous Management Framework Plus (AMF Plus).

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Enable smooth business communication

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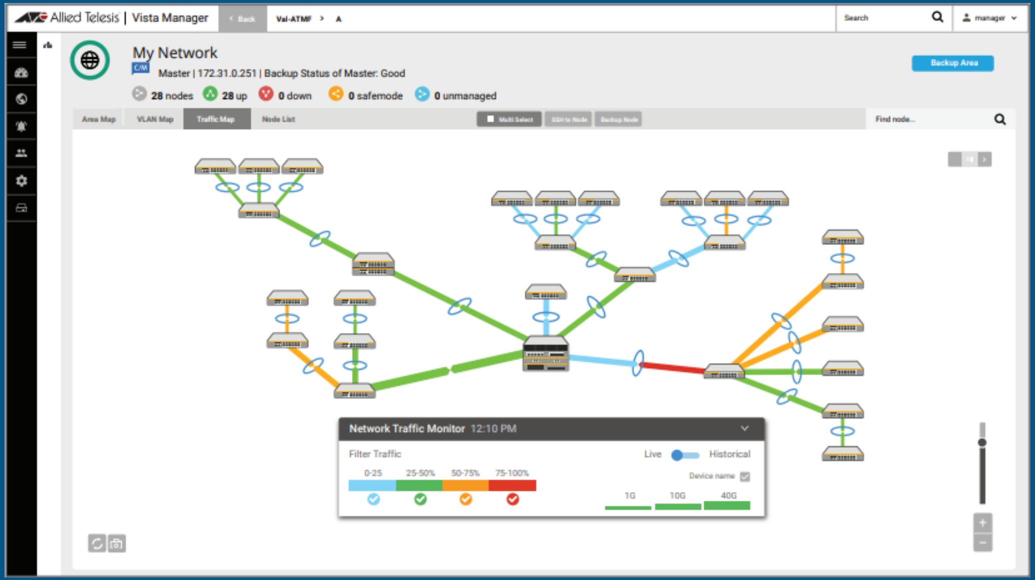
Completa visibilidad y administración proactiva


Allied Telesis | Vista Manager
Back
Val-ATMF > A
Search
manager
Backup Area
Area Map
VLAN Map
Traffic Map
Node List
Multi Select
SSH to Node
Backup Node
Find node...

My Network

Master | 172.31.0.251 | Backup Status of Master: Good

28 nodes · 28 up · 0 down · 0 safemode · 0 unmanaged

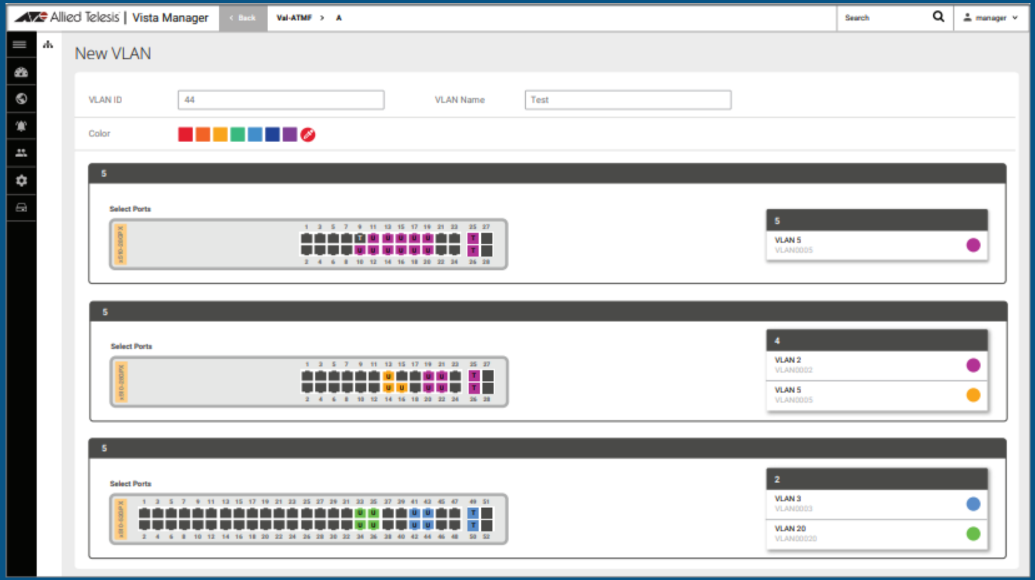
Network Traffic Monitor 12:10 PM

Filter Traffic: 0-25 ✓ · 25-50% ✓ · 50-75% ✓ · 75-100% ✓

Live ● Historical

Device name ☑

1G · 10G · 40G


Allied Telesis | Vista Manager
Back
Val-ATMF > A
Search
manager
Select Ports

New VLAN

VLAN ID: 44

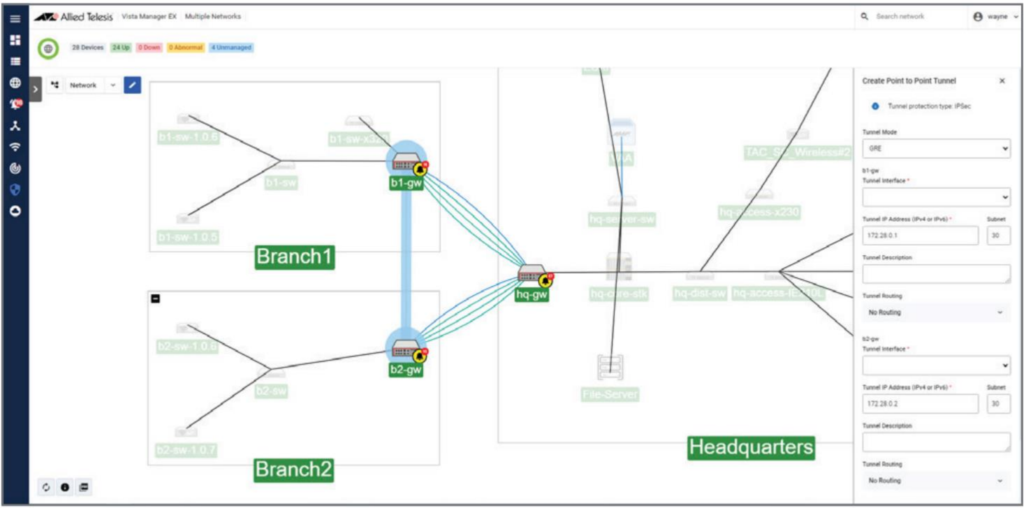
VLAN Name: Test

Color

5 — VLAN 5 VLAN0005

4 — VLAN 2 VLAN0002 · VLAN 5 VLAN0005

2 — VLAN 3 VLAN0003 · VLAN 20 VLAN0020


Allied Telesis
Vista Manager EX
Multiple Networks
Search network
wayne
Network
b1-gw
b2-gw
hq-gw
Branch1
Branch2
Headquarters

28 Devices · 24 Up · 0 Down · 0 Abnormal · 4 Unmanaged

Create Point to Point Tunnel

Tunnel protection type: IPSec

Tunnel Mode: GRE

b1-gw

Tunnel Interface *

Tunnel IP Address (IPv4 or IPv6) *: 172.28.0.1 Subnet: 30

Tunnel Description

Tunnel Routing: No Routing

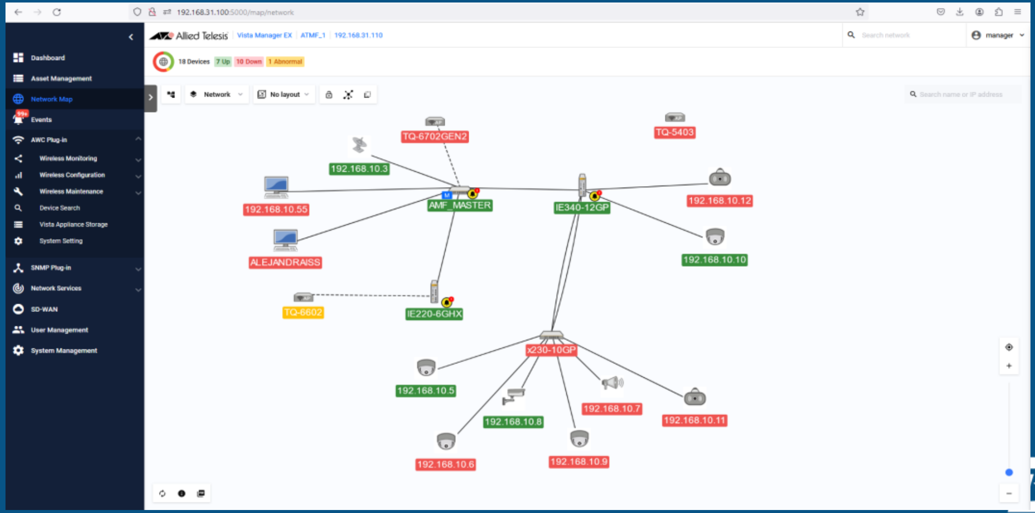
b2-gw

Tunnel Interface *

Tunnel IP Address (IPv4 or IPv6) *: 172.28.0.2 Subnet: 30

Tunnel Description

Tunnel Routing: No Routing


192.168.31.100:5000/map/network
Allied Telesis
Vista Manager EX
ATMF_1
192.168.31.110
Dashboard
Asset Management
Network Map
Events
AWC Plug-in
Wireless Monitoring
Wireless Configuration
Wireless Maintenance
Device Search
Vista Appliance Storage
System Setting
SNMP Plug-in
Network Services
SD-WAN
User Management
System Management
Network
No layout
Search name or IP address
TQ-6702GEN2
TQ-5403
192.168.10.3
192.168.10.55
AMF_MASTER
IE340-12GP
192.168.10.12
192.168.10.10
ALEJANDRAISS
TQ-6602
IE220-6GHX
x230-10GP
192.168.10.5
192.168.10.8
192.168.10.7
192.168.10.11
192.168.10.6
192.168.10.9
manager

18 Devices · 7 Up · 10 Down · 1 Abnormal

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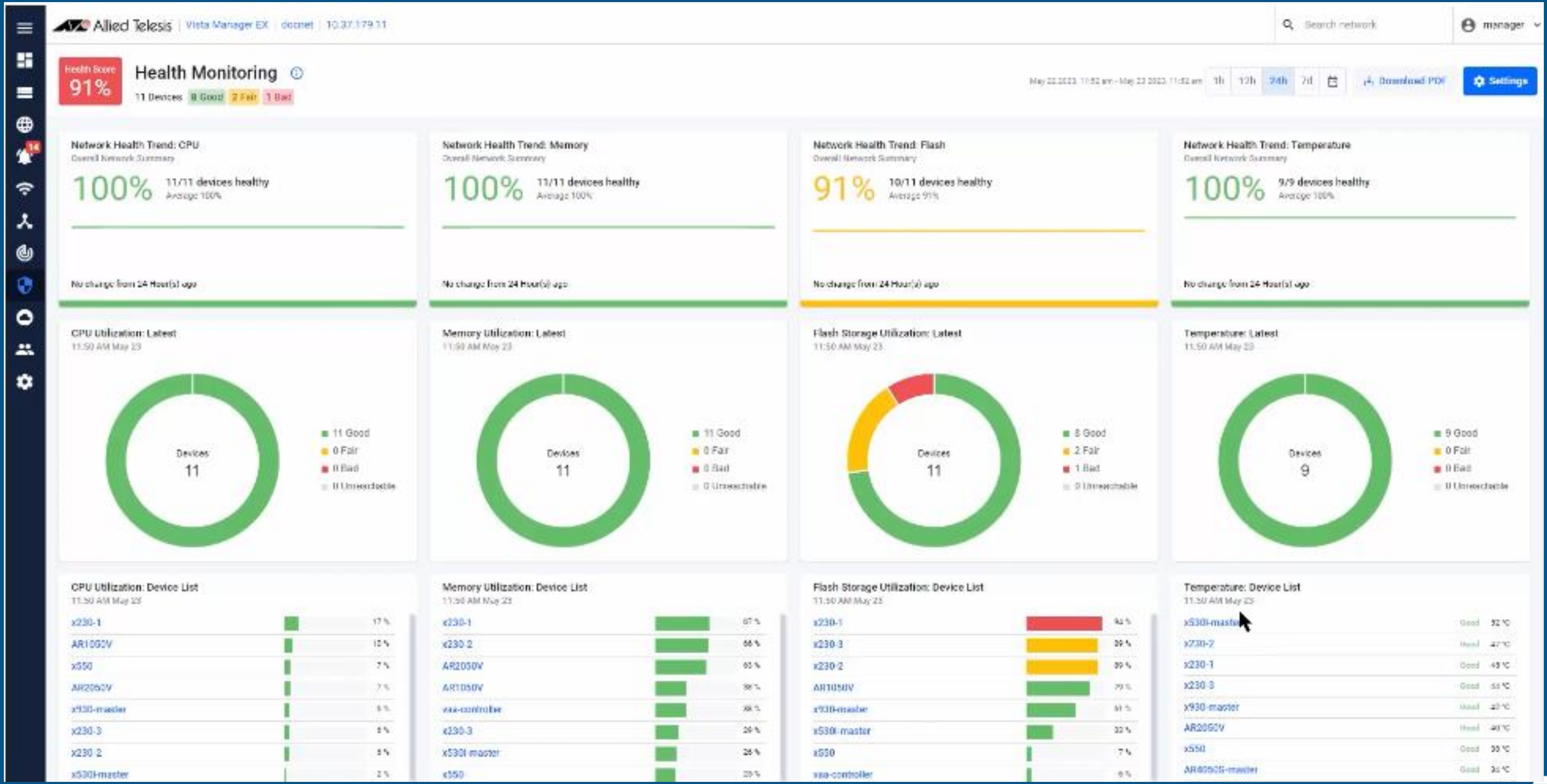
Estado de salud de los dispositivos de red



Health Score 91%

Health Monitoring

11 Devices 8 Good 2 Fair 1 Bad

May 22 2023 11:52 am - May 23 2023 11:52 am

Network Health Trend: CPU
Overall Network Summary
100% 11/11 devices healthy
Average 100%
No change from 24 Hour(s) ago

Network Health Trend: Memory
Overall Network Summary
100% 11/11 devices healthy
Average 100%
No change from 24 Hour(s) ago

Network Health Trend: Flash
Overall Network Summary
91% 10/11 devices healthy
Average 91%
No change from 24 Hour(s) ago

Network Health Trend: Temperature
Overall Network Summary
100% 9/9 devices healthy
Average 100%
No change from 24 Hour(s) ago

CPU Utilization: Latest
11:50 AM May 23
Devices 11
- 11 Good
- 0 Fair
- 0 Bad
- 0 Unreachable

Memory Utilization: Latest
11:50 AM May 23
Devices 11
- 11 Good
- 0 Fair
- 0 Bad
- 0 Unreachable

Flash Storage Utilization: Latest
11:50 AM May 23
Devices 11
- 8 Good
- 2 Fair
- 1 Bad
- 0 Unreachable

Temperature: Latest
11:50 AM May 23
Devices 9
- 9 Good
- 0 Fair
- 0 Bad
- 0 Unreachable

CPU Utilization: Device List
11:50 AM May 23

x230-1	17 %
AR1050V	10 %
x550	7 %
AR2050V	7 %
x930-master	6 %
x230-3	5 %
x230-2	5 %
x530l-master	2 %

Memory Utilization: Device List
11:50 AM May 23

x230-1	67 %
x230-2	66 %
AR2050V	65 %
AR1050V	38 %
vaa-controller	38 %
x230-3	29 %
x530l master	26 %
x550	25 %

Flash Storage Utilization: Device List
11:50 AM May 23

x230-1	94 %
x230-3	89 %
x230-2	89 %
AR1050V	79 %
x930-master	61 %
x530l-master	32 %
x550	7 %
vaa-controller	6 %

Temperature: Device List
11:50 AM May 23

x530l-master	Good	52 °C
x230-2	Good	47 °C
x230-1	Good	45 °C
x230-3	Good	44 °C
x930-master	Good	42 °C
AR2050V	Good	40 °C
x550	Good	30 °C
AR4050S-master	Good	35 °C

Experiencia superior al usuario de WiFi

Enjoy full visibility and proactive management

with reduced network administration time and effort using Vista Manager.

Provide a superior Wi-Fi user experience

with a self-tuning wireless network that runs itself thanks to the innovative Autonomous Wave Control (AWC).

Reduce IT administration time

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AWC

VISTA MANAGER™

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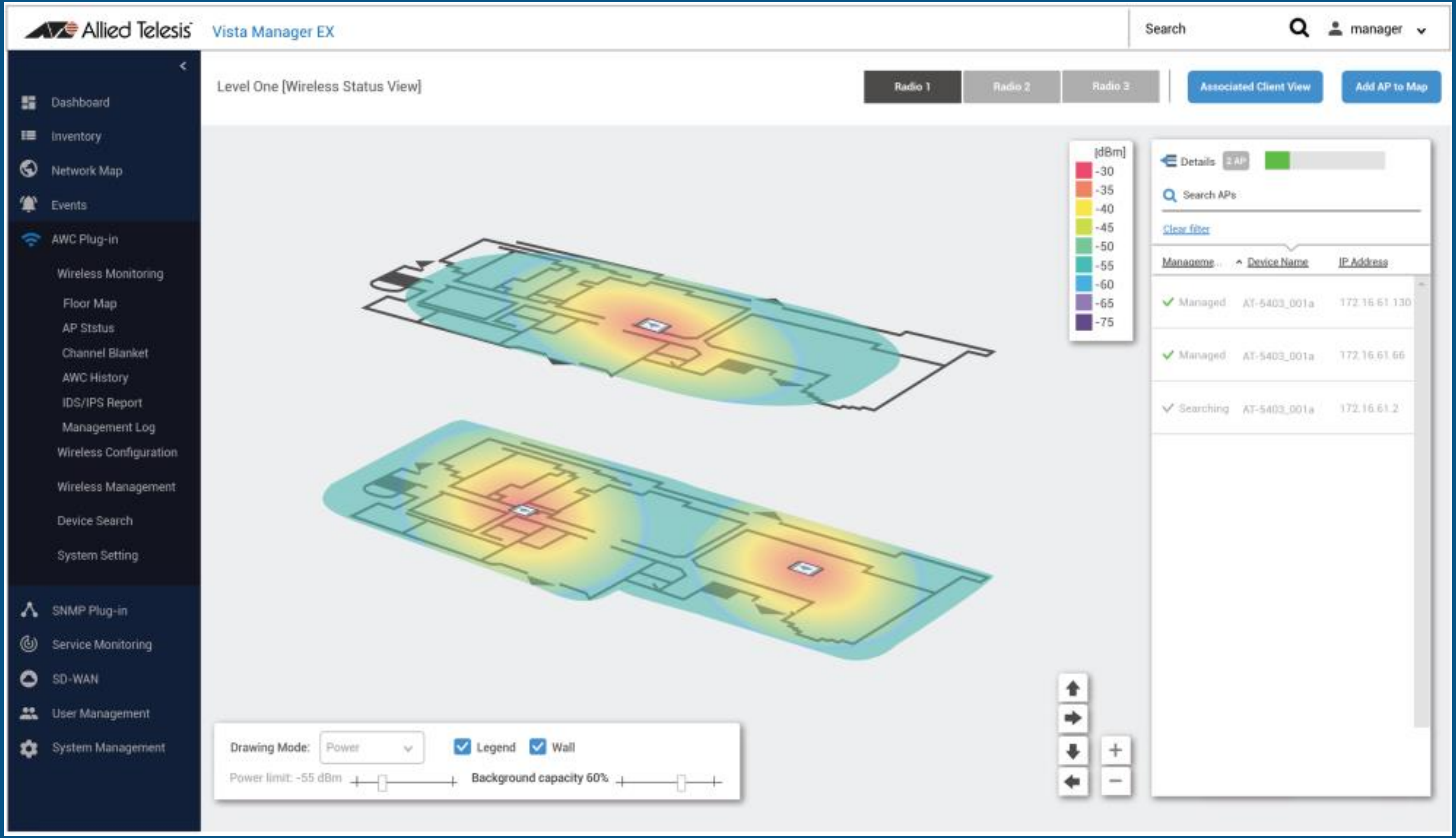
Controladora Inalámbrica - AWC

- La movilidad es esencial para las empresas hoy en día. Los espacios de trabajo flexibles y múltiples dispositivos son la norma. El Wi-Fi de su empresa lo hace posible: obtenga la mejor experiencia para su personal y sus clientes con un controlador inalámbrico líder en el mercado.

Diseño de pisos y mapas de calor


Allied Telesis
Vista Manager EX
Search
manager
Dashboard
Inventory
Network Map
Events
AWC Plug-in
Wireless Monitoring
Floor Map
AP Ststus
Channel Blanket
AWC History
IDS/IPS Report
Management Log
Wireless Configuration
Wireless Management
Device Search
System Setting
SNMP Plug-in
Service Monitoring
SD-WAN
User Management
System Management
Level One [Wireless Status View]
Radio 1
Radio 2
Radio 3
Associated Client View
Add AP to Map
[dBm]
🟥 -30
🟧 -35
🟨 -40
🟨 -45
🟩 -50
🟩 -55
🟦 -60
🟪 -65
🟪 -75
Details
2 AP
Search APs
Clear filter
+
−

Manageme...	Device Name	IP Address
✓ Managed	AT-5403_001a	172.16.61.130
✓ Managed	AT-5403_001a	172.16.61.66
✓ Searching	AT-5403_001a	172.16.61.2

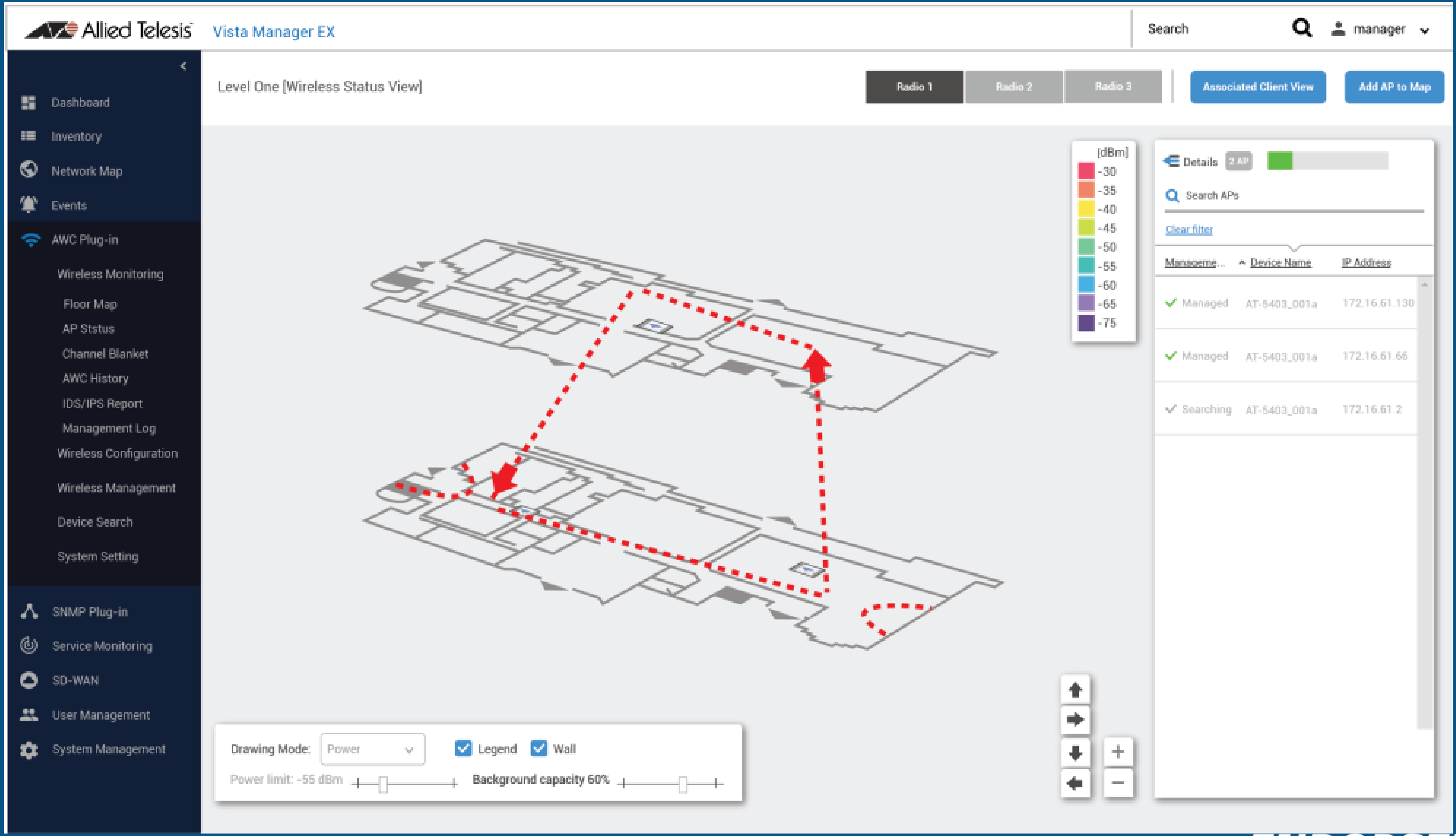
Drawing Mode: Power

☑ Legend ☑ Wall

Power limit: -55 dBm

Background capacity 60%

Conteo y seguimiento de dispositivos


Allied Telesis
Vista Manager EX
Search
manager
Dashboard
Inventory
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Events
AWC Plug-in
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Channel Blanket
AWC History
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Wireless Configuration
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Device Search
System Setting
SNMP Plug-in
Service Monitoring
SD-WAN
User Management
System Management
Radio 1
Radio 2
Radio 3
Associated Client View
Add AP to Map
[dBm]
-30
-35
-40
-45
-50
-55
-60
-65
-75
Details
2 AP
Search APs
Clear filter

Level One [Wireless Status View]

Manageme...	Device Name	IP Address
✓ Managed	AT-5403_001a	172.16.61.130
✓ Managed	AT-5403_001a	172.16.61.66
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Drawing Mode: Power

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Power limit: -55 dBm

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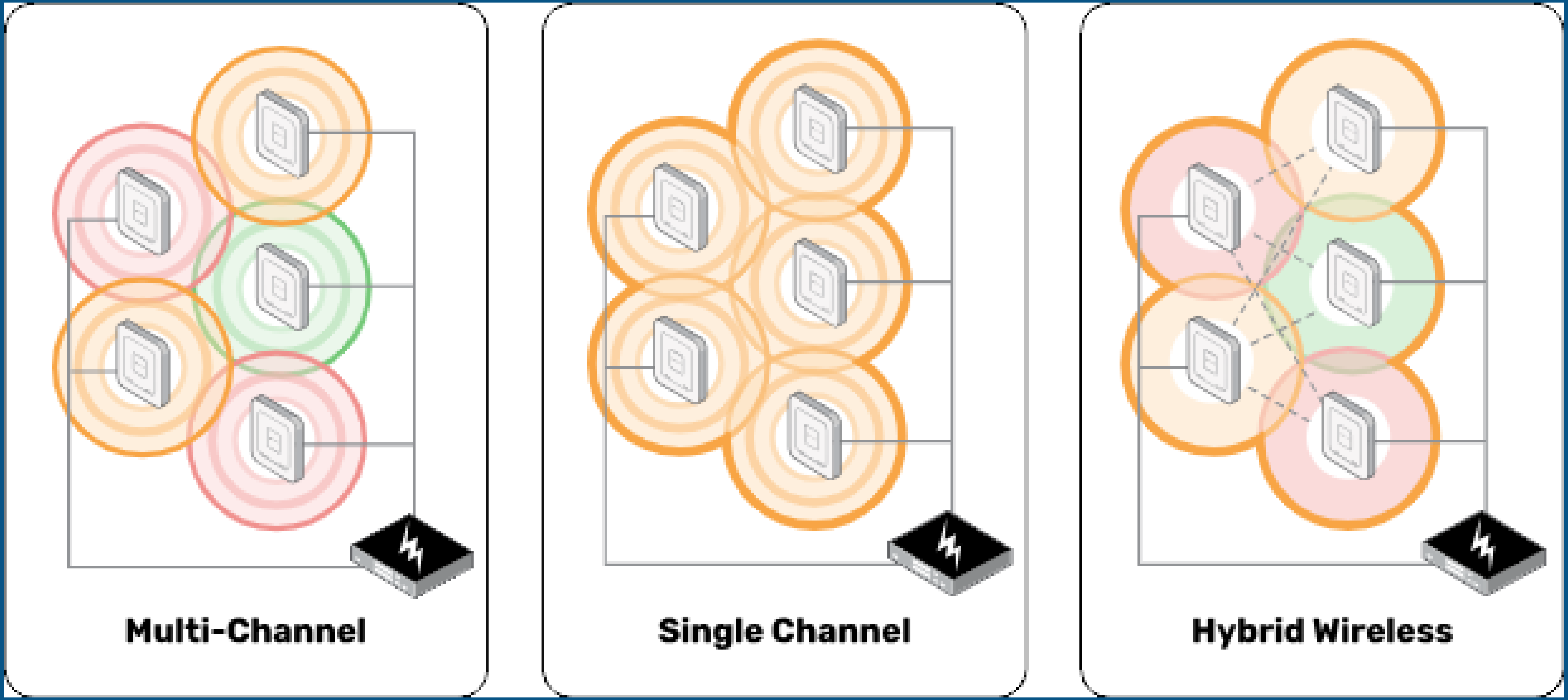
Despliegues de red "Seamless Roaming"


Multi-Channel
Single Channel
Hybrid Wireless

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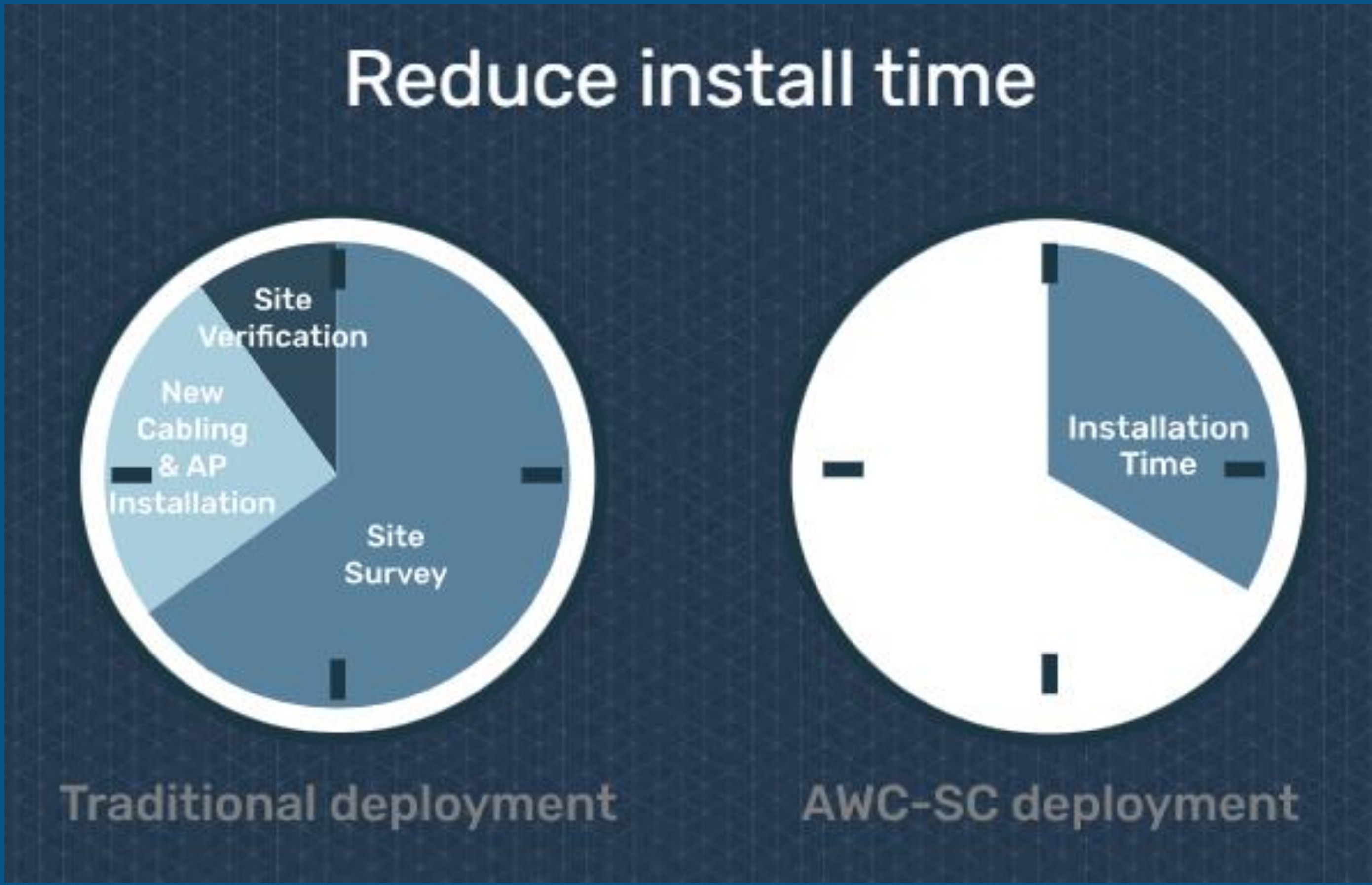
Conexión de AP’s rápida e inteligente

- Despliegues a traves de la controladora Inalámbrica
- No requiere cables de datos
- Expansion inalámbrica “Plug & Play”



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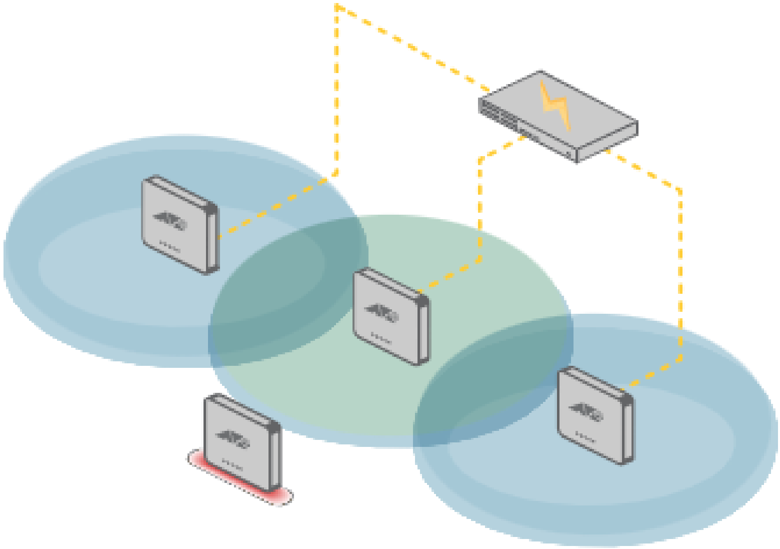
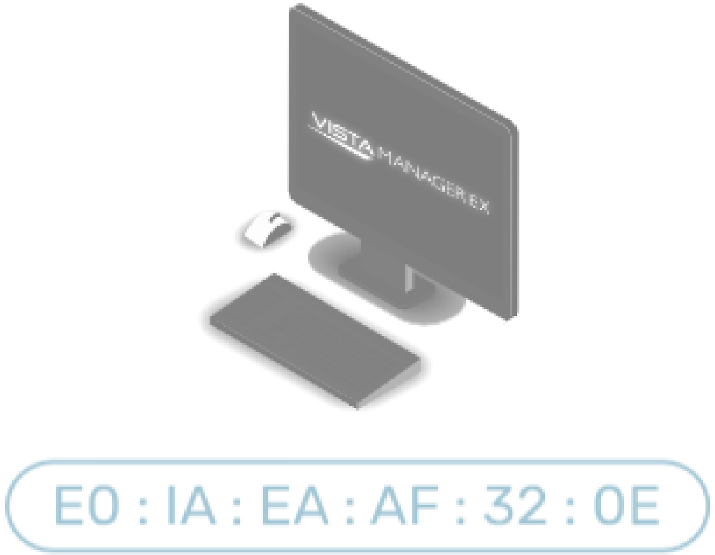
Conexión de AP's rápida e inteligente

It's as easy as 1–2–3

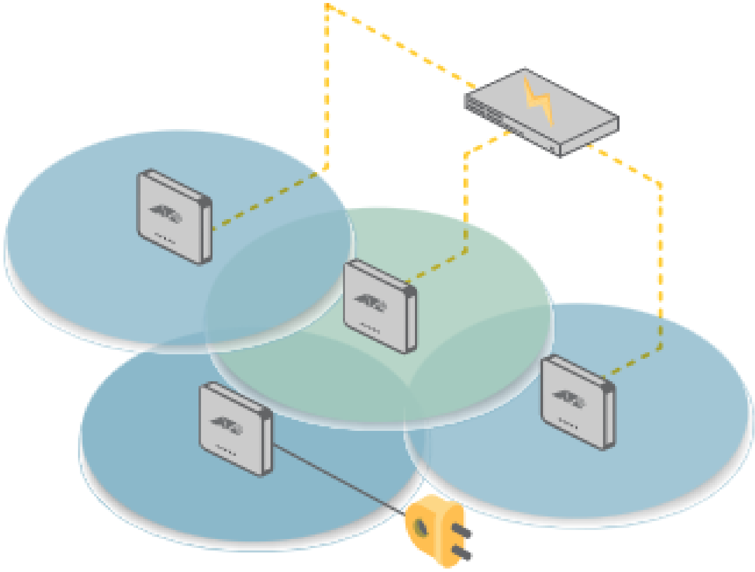
1. Place APs where needed.



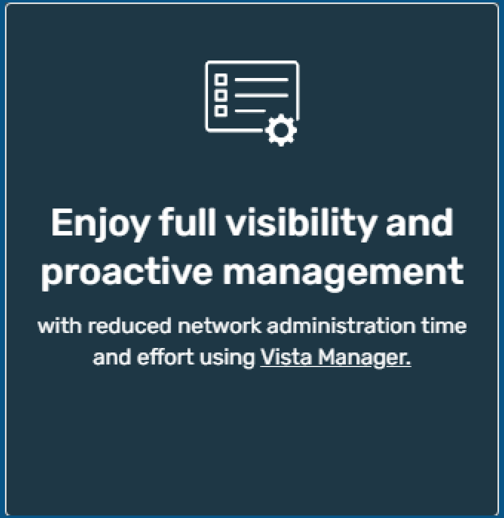
2. Add MAC addresses to the controller.


VISTA MANAGER EX
E0 : IA : EA : AF : 32 : 0E

3. Power on APs and go.



Reducción del tiempo de Administracion de red



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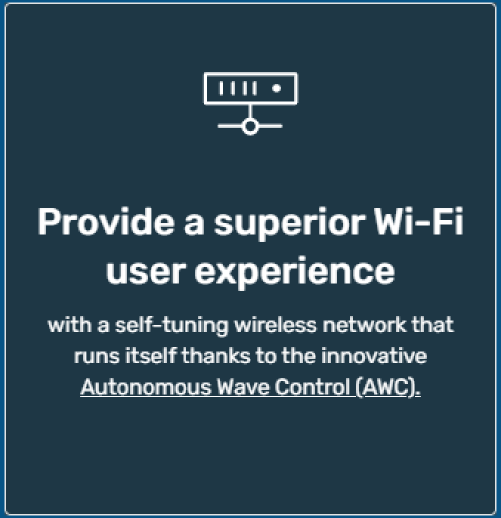

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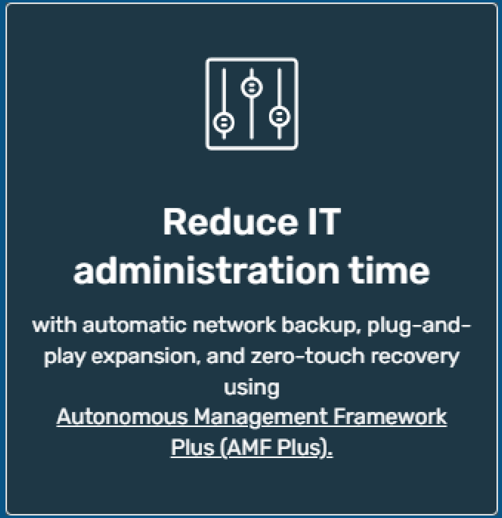

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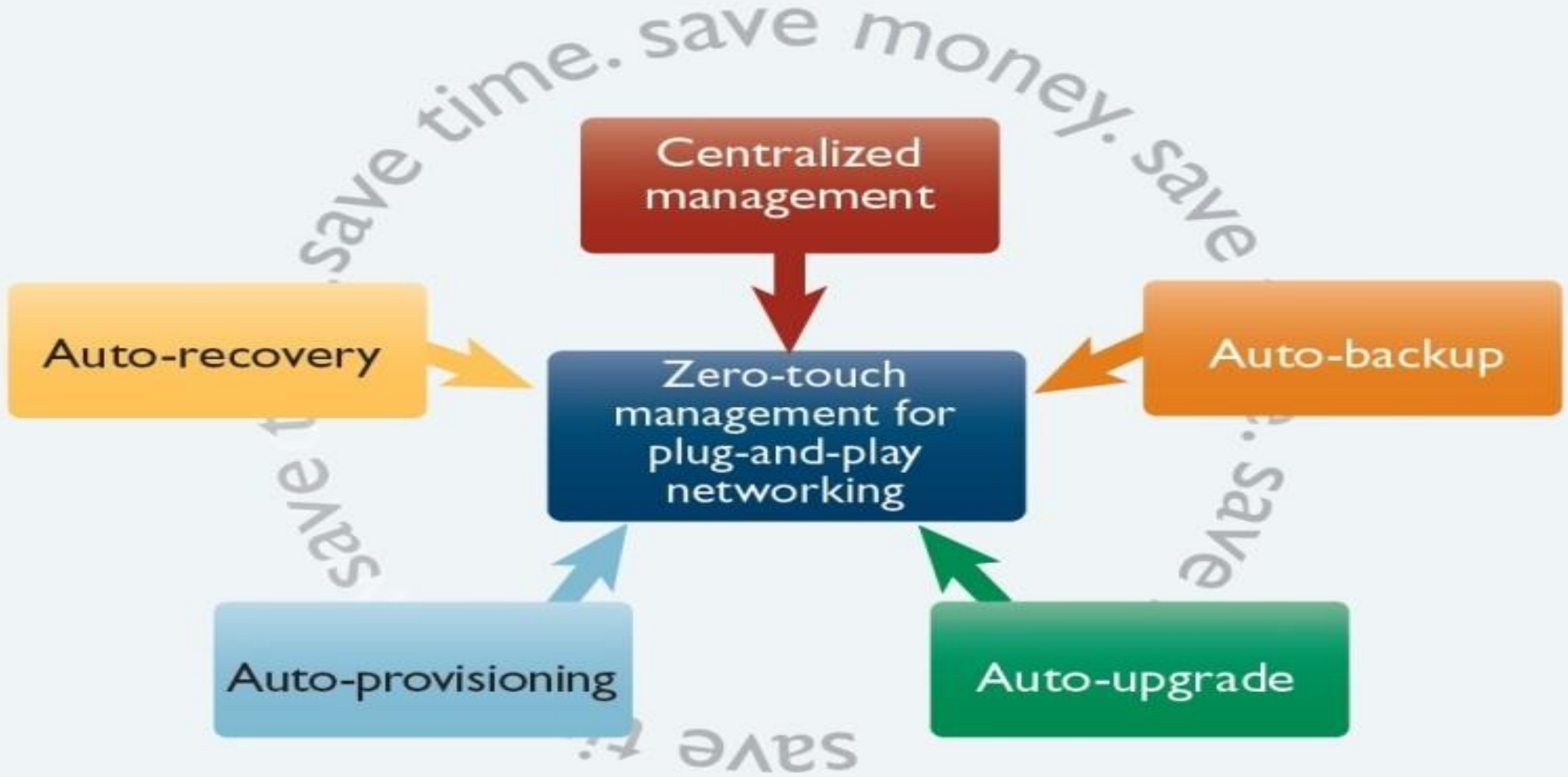
Autonomous Management Framework - AMF


save time. save money. save
Centralized management
Auto-recovery
Zero-touch management for plug-and-play networking
Auto-backup
Auto-provisioning
Auto-upgrade
save
save
save

Garantizar un entorno de trabajo seguro

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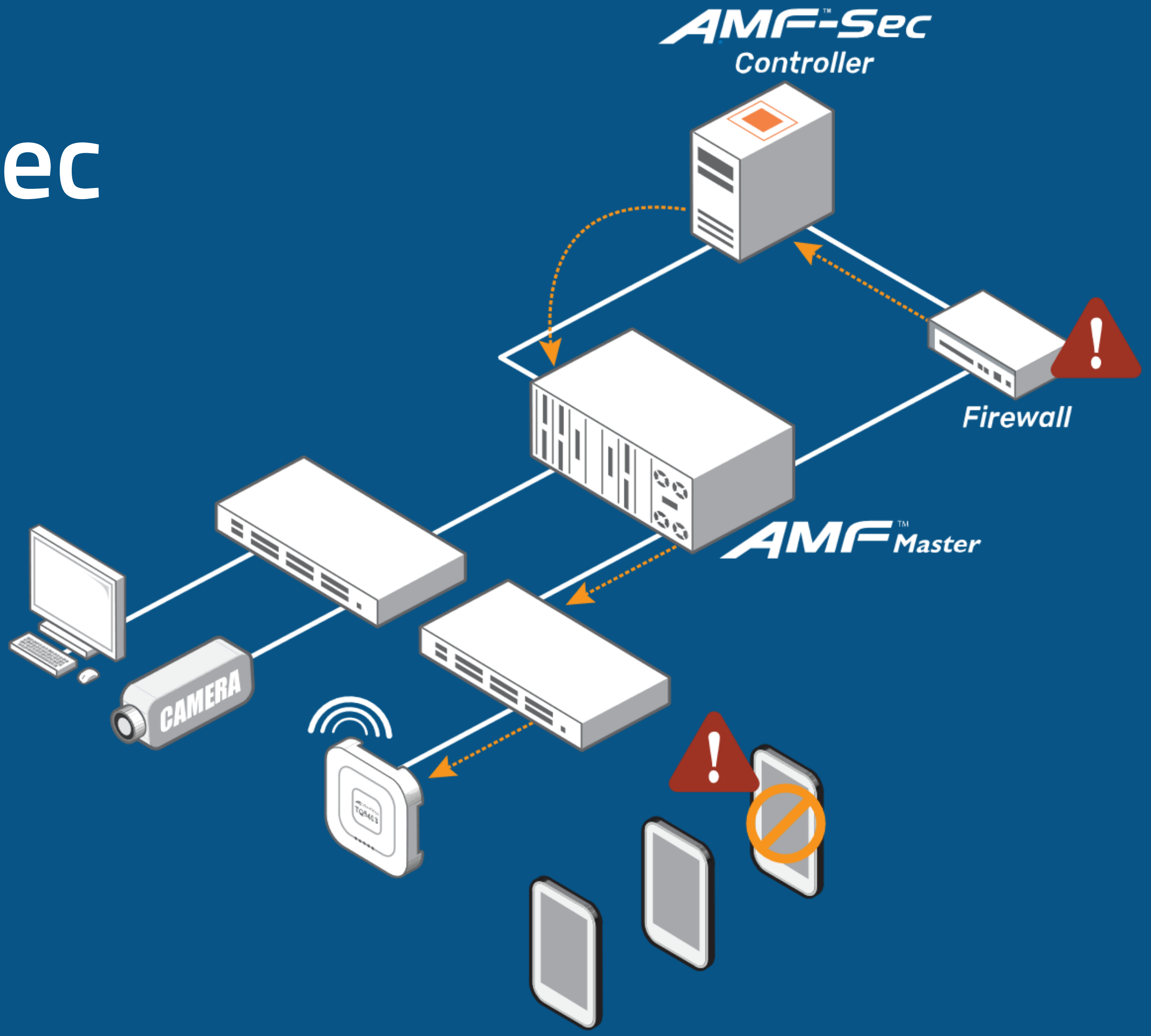
Proteccion de red Automatizada - AMFSec

Simplificar la seguridad en la red

Aislamiento y protección inmediata

Fácil autenticación


AMF-Sec™
Controller
Firewall
AMF™ Master
CAMERA

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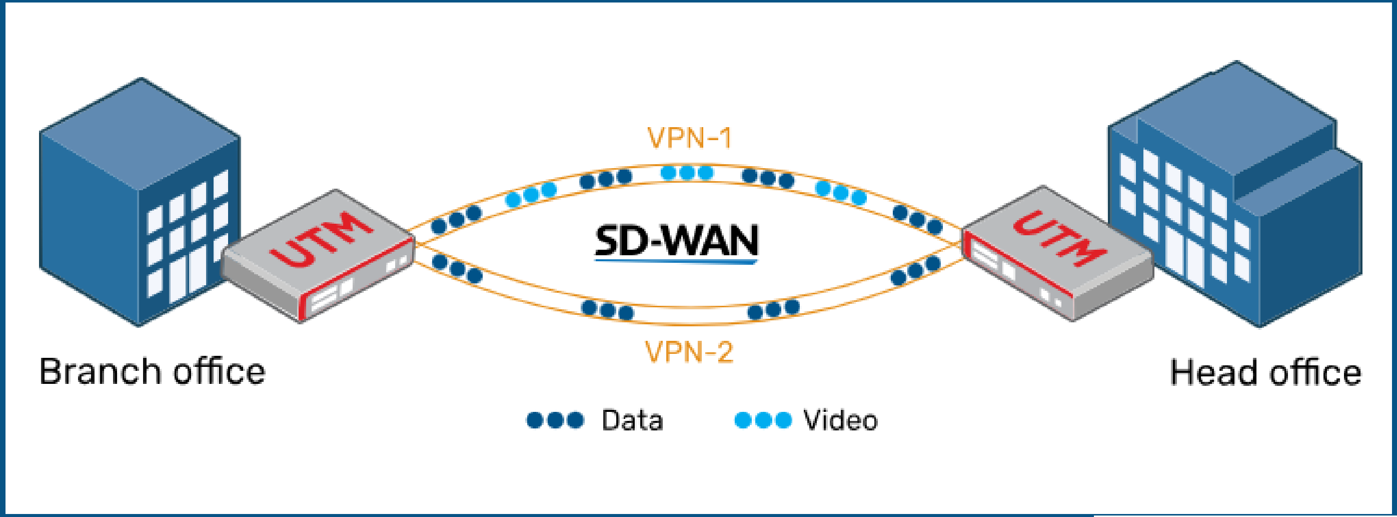
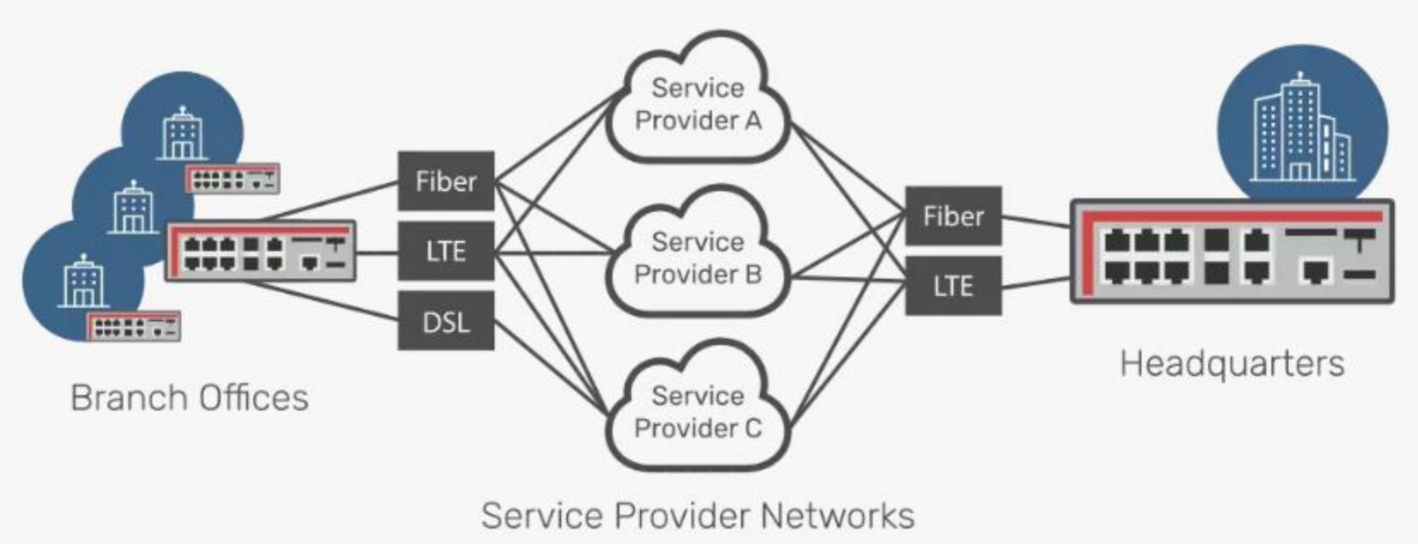
Secure SD-WAN


VPN-1
SD-WAN
VPN-2
UTM
UTM
Branch office
Head office
●●● Data
●●● Video

Siempre la mejor ruta

Mejor Experiencia – Múltiples ISP


Service Provider A
Service Provider B
Service Provider C
Fiber
LTE
DSL
Fiber
LTE
Branch Offices
Headquarters
Service Provider Networks

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