

Best TCO Integration Realizing Speed Wi-Fi Network Expansion



Solution Brief

AP Controller Technology



ZyXELone**network**
Redefining network integration

With the BYOD trend accelerating, Wi-Fi connectivity is now widely provided everywhere in offices, hotels and even schools. This significantly and quickly increases demand for Wi-Fi access points, which in turn leads to more provisioning and management issues for network administrators. In fact, a well-designed WLAN controller is usually a solution to relieve administrators from these problems.

Now, ZyXEL makes its advanced AP Controller (APC) technology available not only to stand-alone NXC WLAN controller, but also to its various Gateway products. This enables businesses to easily scale up the Wi-Fi networks with less investment and management efforts.

Best TCO

- Lower initial investment on equipment procurements
- Less configuring and maintaining efforts on multiple devices

Pay as You Grow











- Scalable license-based Wi-Fi AP management for more flexibility
- myZyXEL.com 2.0 offers a single friendly portal for managing the licensed services

Comprehensive AP Portfolio

- Wall mount, ceiling mount or even wall-plate installation for different needs
- Indoor/outdoor wide-coverage installation for all locations
- Comprehensive technology options: ultra-high speed 11ac and concurrent dual-band for high-density deployments



Portfolio

Stand-Alone AP Controller	Integrated AP Controller			
NXC Series	UTM	VPN Firewall	Access Gateway	Small Business Gateway
 NXC2500	 USG40/40W/60/60W	 ZyWALL 110*2/310*2/1100*2	 UAG2100*1/4100	 SBG3500-N
 NXC5500	 USG110/210/310*1		 UAG5100	 SBG3600-N*1
	 USG1100*1/1900*1			

*1: available in Q3 2014

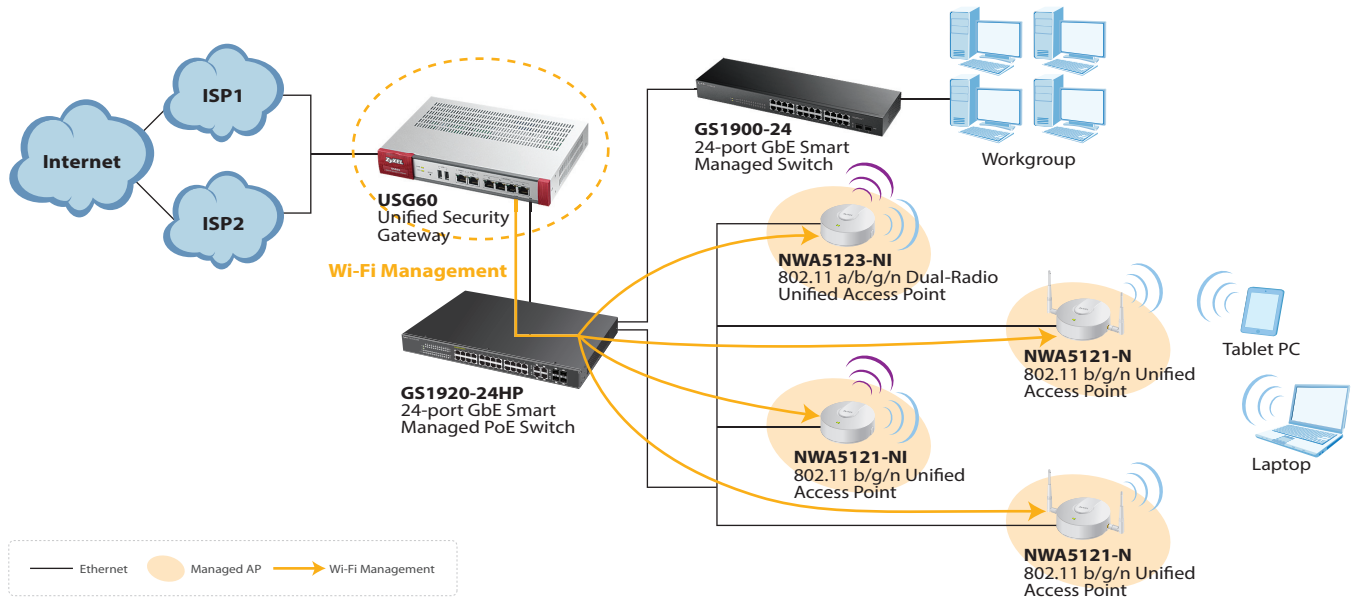
*2: with firmware ZLD V4.10 or above

Application Diagram

SMB

ZyXEL's Next-Generation USG series integrates AP Controller Technology. It performs business Gateway, anti-malware protection and Wi-Fi centralized management at the same time.

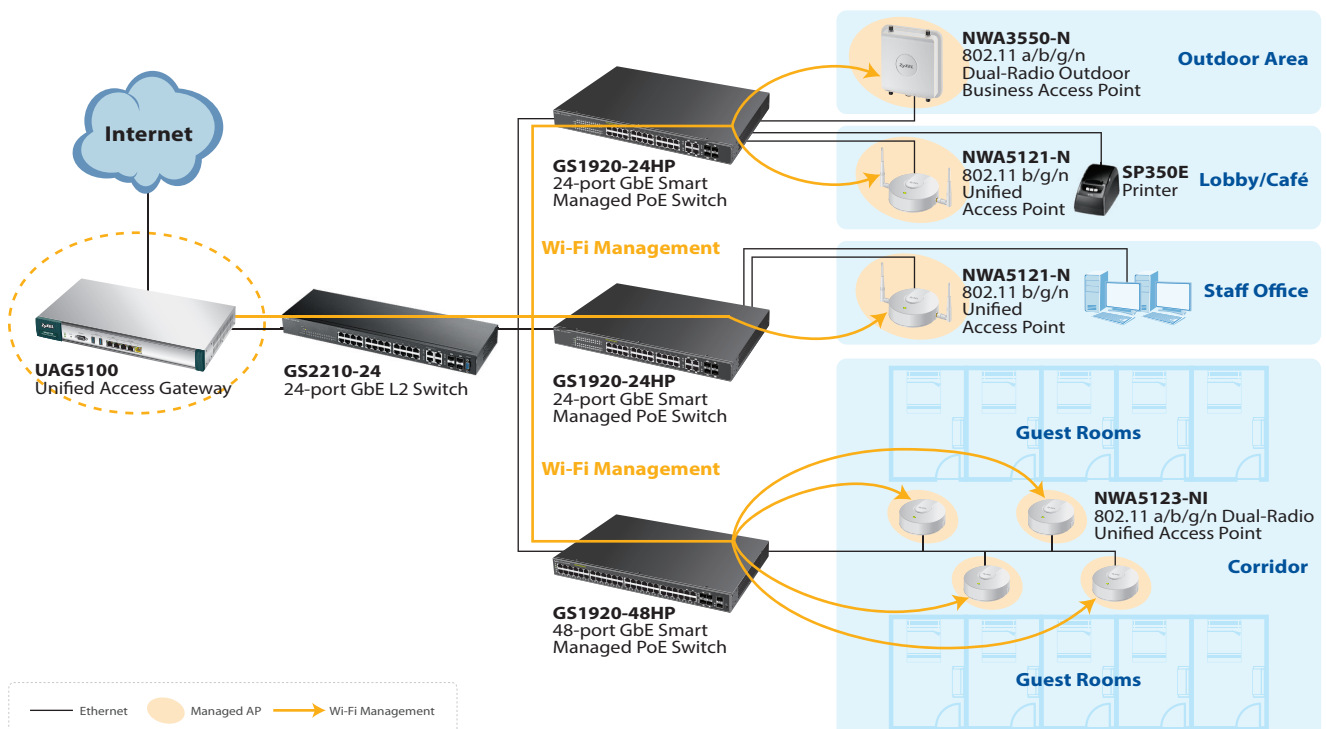
In case more Wi-Fi needs to be deployed and managed, an NXC WLAN Controller can be added for higher scalability.



Hotel

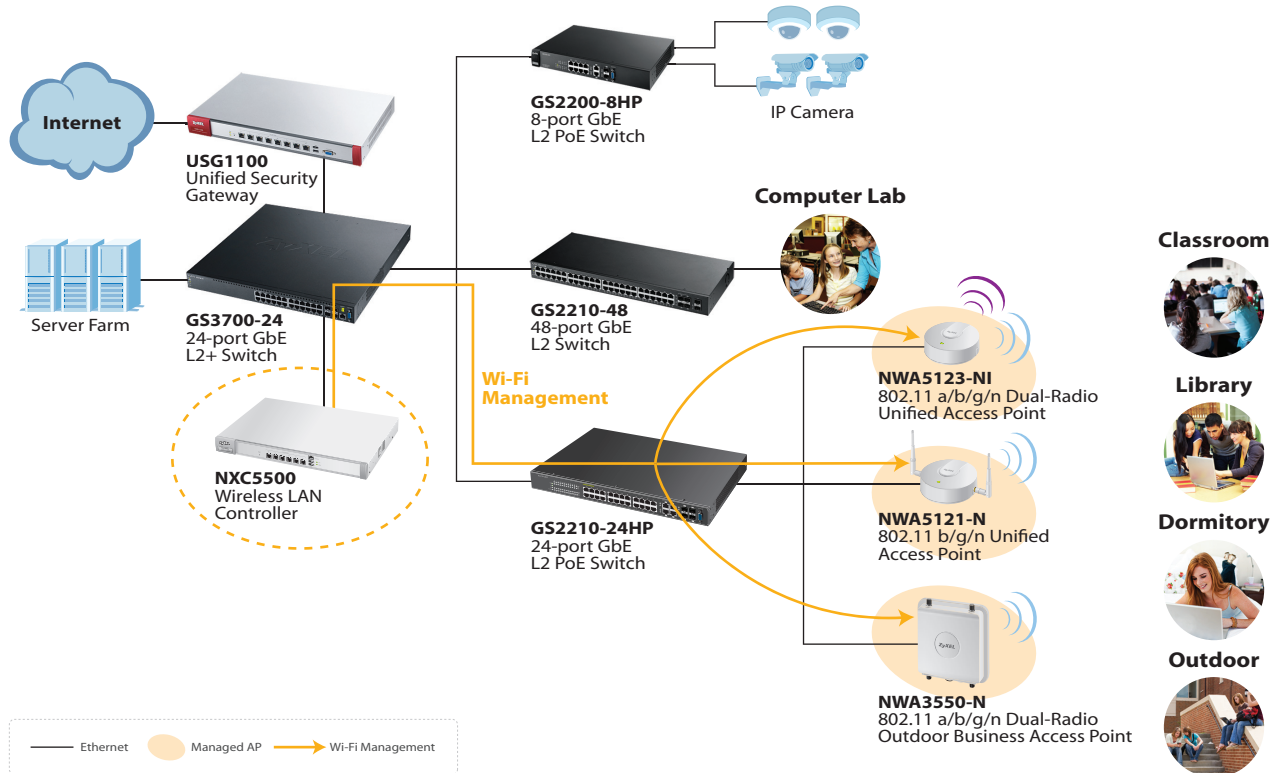
Unified Access Gateway (UAG) series integrates AP Controller Technology. It performs business Gateway, AAA Gateway and Wi-Fi centralized management at the same time.

In case more Wi-Fi needs to be deployed and managed, an NXC WLAN Controller can be added for higher scalability.



Education

An NXC WLAN Controller with high scalability can manage up to 512 APs, making it an ideal choice for campus deployment.



Supported Models

APC Technology	APC Lite	APC1.0						APC2.0	
Product Series	Small Business Gateway	UTM		VPN Firewall	Access Gateway			NXC Series	
Applied products	SBG3500-N SBG3600-N	USG40/40W/ 60/60W	USG110/210/310/ 1100/1900	ZyWALL 110/310/1100	UAG2100	UAG4100	USG5100	NXC2500	NXC5500
Supported managed AP	NWA3160-N NWA3550-N NWA3560-N NWA5160N NWA5550-N NWA5560-N NWA5121-NI NWA5123-NI NWA5121-N NWA5301-NJ	NWA3160-N NWA3550-N NWA3560-N NWA5160N NWA5550-N NWA5560-N NWA5121-NI NWA5123-NI NWA5121-N NWA5301-NJ						NWA3160-N NWA3550-N NWA3560-N NWA5160N NWA5550-N NWA5560-N NWA5121-NI NWA5123-NI NWA5121-N NWA5301-NJ	
Default managed AP number	2	2	2	2	0	8	16	8	64
Maximum managed AP number	10	10	18	18	8	16	32	64	512

Feature Matrix

APC Version	APC Lite	APC1.0	APC2.0
RRM (Radio Resource Management)			
Client RSSI threshold	Yes	Yes	Yes
Dynamic channel selection	Yes	-	Yes
Band steering (Band select)	-	-	Yes
Auto power (Auto healing)	-	-	Yes
Security & Access Control			
MAC filtering	Yes	Yes	Yes
Blocking intra-BSS traffic	Yes	Yes	Yes
Role-based access control	-	Yes	Yes
Rogue AP detection	-	-	Yes
Rogue AP containment	-	-	Yes
Wireless L2 isolation	Yes	Yes	Yes
AAA (Authentication, Authorization, Accounting)			
MAC authentication with local database	-	-	Yes
MAC authentication with external radius	-	-	Yes
Captive portal (internal & external)	Yes	Yes	Yes
Captive portal customizable web login page	Yes	Yes	Yes
Dynamic guest account	-	Yes	Yes
RADIUS authentication	Yes	Yes	Yes
Microsoft AD authentication	-	-	Yes
LDAP authentication	-	-	Yes
embedded RADIUS server	-	-	Yes
RADIUS accounting	-	-	Yes
RADIUS session resumption	-	-	Yes
Log-out page	-	-	Yes
Wireless QoS			
AP load balancing	-	-	Yes
WLAN station bandwidth limiting (per-ssid)	Yes	-	Yes
Deployment			
Data tunneling	-	-	Yes
Ekahau RTLS support	-	-	Yes
ZyMesh	-	-	Yes
ZWO (ZyXEL Wireless Optimizer) AP planning	Yes	Yes	-
ZWO (ZyXEL Wireless Optimizer) coverage detection	-	-	Yes
CAPWAP discovery method	Yes	Yes	Yes
Diagnostic Tool			
Wireless frame capture	-	-	Yes
High Availability			
Primary/Secondary controller support	-	Yes	Yes
License SKU			
MAPS	Yes	Yes	Yes
ZyMesh license	-	-	Yes

For more product information, visit us on the web at www.ZyXEL.com



Copyright © 2014 ZyXEL Communications Corp. All rights reserved. ZyXEL, ZyXEL logo are registered trademarks of ZyXEL Communications Corp. All other brands, product names, or trademarks mentioned are the property of their respective owners. All specifications are subject to change without notice.

