



Deploy and Manage a Highly Scalable, Worry-Free WLAN

- Centralized WLAN management
 and auto provisioning
- Manages up to 1024 APs with granular access control
- ZyMesh simplifies complex, inconvenient cabling WiFi deployments
- Comprehensive features for WLAN performance optimization and always-on WiFi connectivity
- Wireless LAN performance optimization via dynamic channel selection and load balancing
- Guest authentication by QR code
- ZyXEL One Network is supported

ZyXEL's next generation WLAN controller, the NXC5500, is capable of extending networks flexibly and fulfilling different deploy requirements with excellent Access Point (AP) compatibility; and the NXC5500 can centralize WLAN management to reduce extra efforts. The NXC5500 is easy to use and scalable for hotels, education institutions, chain stores as well as small- to-medium-size enterprises to configure network solutions that meet their specific needs.

Benefits

Centralized management and provision

With demand for Internet connection of mobile devices growing rapidly, high scalability WLAN and centralized management become necessary for wireless device deployments. The ZyXEL NXC5500 WLAN controller has great scalability to manage up to 1024 APs centrally. The NXC5500 utilizes CAPWAP protocol to minimize issues of WiFi deployments that are new, or belong to extension programs on top of the existing networks.

Adaptive and resilient WiFi deployments

The ZyXEL NXC5500 features with ZyMesh to solve the complex cable deployments when extending WiFi coverage, and provide high resilience WiFi service with multiple route selections for each repeater APs. In the past, administrators had to assign a channel and MAC addresses in each AP while setting up a WDS link to extend WiFi service; now they can make auto provision and manage easily.

WLAN optimization and enhanced RF management

All wireless networks face a major challenge: ensuring WiFi clients get service levels they'd need. Therefore, there are several kinds of WiFi clients exist on the network, and these users tend to make their own connectivity and roaming decisions. The NXC5500 can monitor the capabilities of each wireless client and steer the client to the best radio on the best AP by band select and signal threshold. Also, the NXC5500 can detect status of neighbor AP and adjust output power automatically to ensure a non-stop WiFi service.

Secured wireless edge and access management

The NXC5500 features with diversified WiFi security features and comprehensive access control to help enterprises and businesses address the wireless security issues that arise with BYOD.

ZyXELonenetwork

NXC5500 Wireless LAN Controller



ZyXEL One Network experience

The NXC5500 features with diversified WiFi security features and comprehensive access control to help enterprises and businesses address the wireless security issues that arise with BYOD.

Aiming for relieving our customers from repetitive operations of deploying and managing a network, ZyXEL One Network is designed to simplify the configuration, management, and troubleshooting, allowing our customers to focus on the business priorities. ZyXEL One Network presents an easy-to-use tool, ZyXEL One Network Utility (ZON Utility), to realize speed network setup. ZyXEL Smart Connect* allows ZyXEL networking equipment to be aware and recognize each other and further facilitating the network maintenance via one-click remote functions such as factory reset or power cycling. ZyXEL One Network redefines the network integration across multiple networking products from switch to WiFi AP to WLAN controller and to Gateway.

* ZvXEL Smart Connect is supported on selected models. Please refer to specifications for more detail.

Feature Highlights



Secured Wireless Edge

The NXC5500 features with multiple network security functions to provide the most robust protection for the wireless network edge. The rogue AP detection ensures to block malicious AP, while industry-standard WPA/ WPA2-Enterprise authentication, a variety of Extensible

firewall feature enables secure access against unauthorized

Authentication Protocol (EAP) frameworks and built-in

or malicious activities in enterprise network.

Secured Wireless Edge

High Performance



High Performance

Gbps



Auto Healing

The NXC5500 has Auto Healing feature that detects status of neighbor APs and adjust AP power automatically to provide enduring network services. If an AP is not functional, the nearby APs will increase output power to cover the void area. Once the AP outage recovers, the nearby APs decrease output power automatically.



ZyMesh

The ZyMesh features of NXC5500 help extending WiFi coverage to places where cable deployment is difficult. In addition, each repeater APs has multiple route selections to provide non-stop WiFi services. ZyMesh enables to make auto provision and manage for multiple APs easily and centrally.



Client Steering

Client Steering sets 5 GHz as priority for dual-band devices to overcome heavy loading on 2.4 GHz, while client signal threshold transfer devices to APs with stronger signal. With these two functions, the NXC5500 ensures better radio resource usage to provide max wireless network performance for users.



Management

Comprehensive Access Management

The NXC5500 offers easy dynamic account creation and versatile wireless user authentication methods to provide smooth and secured access. The MAC authentication and customized captive portal adapted to suit the needs of enterprises and hospitality. With captive portal via QR code access support, keyboard-less mobile devices are able to access Internet service instantly and securely.



NAT Traversal

The NXC5500 can facilitate the connections traversing NAT gateways to solve connection issue for AP and WLAN controller deployed in different subnets and to ensure the highest robustness of WLAN networks.



High Scalability

The great scalability allows the NXC5500 to manage up to 1024 access points centrally, and the NXC5500 also helps administrators to make auto provision without exhaustive configuration for each AP within few minutes. **High Scalability**



and RTLS

WiFi Site Survey and RTLS

The NXC5500 partners with Ekahau to provide site survey and Real-Time Location Tracking (RTLS) to best assist site selection and expedite large scale or campus deployment.

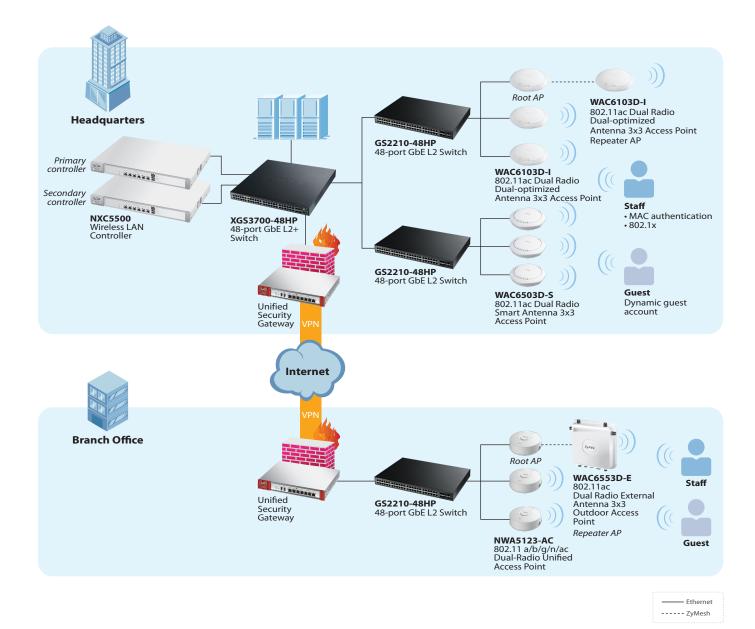


ZyXEL One Network Utility

To streamline the management process, the NXC Series comes with the ZyXEL One Network (ZON) utility, allowing administrators to assign IP addresses to multiple WLAN controllers through just one platform. Administrators can avoid the hassle logging into each WLAN controller to change the default IP addresses before physical installation.



NXC5500 Wireless LAN Controller





Specifications

Model	NXC5500	
	Wireless LAN Controller	
Product name		
Product name	m	
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Port Density 10/100/1000 Mbps LAN ports	6	
USB port	2	
Performance	L	
Throughput (Gbps)	6	
Managed AP number (default/max.)	64/1024	
WLAN Features	01/1021	
Wireless security (WPA/WPA2-PSK, Enterprise)	Yes	
Dynamic channel selection	Yes	
Wireless multicast setting	Yes	
AP load balancing	Yes	
AP planning and site-survey	Yes (AP planning and coverage detection)	
ZyMesh	Licensed service	
Band select	Yes	
Client signal threshold	Yes	
Auto healing	Yes	
Fast roaming	Pre-authentication, PMK caching and 802.11r/k/v	
Security Features		
IEEE 802.1X	Yes	
IEEE 802.11w	Yes	
Layer-2 isolation	Yes	
Web authentication	Yes	
Stateful firewall	Yes	
MAC filtering	Yes	
RADIUS authentication	Yes	
Microsoft AD authentication	Yes	
LDAP authentication	Yes	
Embedded RADIUS server	Yes (4096 user)	
Identity-based user security management	Yes	
Wireless intrusion detection	Rogue AP detection and containment	
Control and Provisioning		
Managed AP discovery	Broadcast/DHCP option/DNS/Manual	
CAPWAP	Yes	
AP data forwarding mode	Distributed (local bridge) and Centralized (data tunnel)	
Management interface	HTTP/HTTPS/Telnet/SSH/SNMP	
Output power control	Yes	
Wire/wireless packet capture	Yes	
Network		
VLANs	Yes	
DHCP client	Yes	
DHCP relay, server	Yes	
NAT	Yes	
Static routing	256	
Policy routing	1000	



NXC5500 Wireless LAN Controller

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Included accessories • Power cord • Rack mounting kit Environmental Specifications Operating Temperature Humidity 0°C to 40°C/32°F to 104°F Storage Temperature Humidity 10% to 90% (non-condensing) 10% to 90% (non-condensing)							
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Humidity 10% to 90% (non-condensing) Storage Temperature -30°C to 70°C/-22°F to 158°F Humidity 10% to 90% (non-condensing)	Operating	Temperature	0°C to 40°C/32°F to 104°F				
Storage Humidity 10% to 90% (non-condensing)	operating	Humidity	10% to 90% (non-condensing)				
Humidity 10% to 90% (non-condensing)	Storage	Temperature	-30°C to 70°C/-22°F to 158°F				
MTBF (hr) 43,800	Storage	Humidity	10% to 90% (non-condensing)				
	MTBF (hr)		43,800				



Access Point Compatibility List

	WAC6500 Series	WAC6300 Series	WAC6100 Series	WAC5300 Series	NWA5120 Series
Series	Unified Pro Access Point	Unified Pro Access Poin	Unified Pro Access Point	Unified Access Point	Unified Access Point
Model	WAC6503D-S WAC6502D-S WAC6502D-E WAC6553D-E WAC6552D-S	WAC6303D-S	WAC6103D-I	WAC5302D-S	NWA5123-AC NWA5123-AC HD NWA5121-NI NWA5121-N NWA5123-NI NWA5301-NJ
Functions	Functions				
Auto provisioning over WAN & LAN	Yes	Yes	Yes	Yes	Yes
CAPWAP	Yes	Yes	Yes	Yes	Yes
Auto channel selection	Yes	Yes	Yes	Yes	Yes
AP load-balancing	Yes	Yes	Yes	Yes	Yes
Rogue AP detection	Yes	Yes	Yes	Yes	Yes
Packet capture	Yes	Future support	Yes	Future support	Yes*
Data forwarding	Local bridge/ Data tunnel	Local bridge/ Data tunnel	Local bridge/ Data tunnel	Local bridge	Local bridge
ZyMesh	Yes	Future support	Yes	Future support	Yes*

*Future support on NWA5123-AC HD

Other Information

Managed AP License

Model	Part number	Description	Note
NXC5500	LIC-AP-ZZ0004F	E-iCard AP Upgrade License 8 APs for NXC5500	The maximum number of APs
	LIC-AP-ZZ0005F	E-iCard AP Upgrade License 64 APs for NXC5500	supported is 1024
NXC2500	LIC-AP-ZZ0003F	E-iCard AP Upgrade License 8 APs for NXC2500	The maximum number of APs
	LIC-AP-ZZ0006F	E-iCard AP Upgrade License 32 APs for NXC2500	supported is 64

ZyMesh License

Model	Part number	Description
NXC5500	LIC-MESH-ZZ0002F	This license enables the ZyMesh function on the NXC5500
NXC2500	LIC-MESH-ZZ0001F	This license enables the ZyMesh function on the NXC2500

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



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