

Overview of the ExtremeWireless™ WiNG™ NX-5500 Integrated Services Platform

The NX-5500 Series Integrated Services Platform lets you centrally administer networks of up to 512 WLAN Access Points geographically dispersed over small or medium sized enterprise locations. WiNG Access Points intelligently handle the traffic flows, quality of service and security at remotely distributed locations, while the NX-5500 provides a single point for configuration, policy setting, and remote troubleshooting. Hotspot configuration, security policy management, and statistics aggregation are all done by one integrated services platform. This efficient WLAN architecture makes controlling the network easier, and reduces the hardware expense required to support large networks.

This document is written for the qualified network device installer.

The NX-5500 Access Point has the following specifications:

- Power Supply: 100 W AC-DC power supply
- Temperatures:
 - Operating Temperature: 32°F to 104°F/0°C to 40°C
 - Storage Temperature: -4°F to 167°F/-20°C to 70°C
 - Operating Humidity 5% to 85% RH at 104° F/40° C (non-condensing)
 - Storage Humidity 5% to 95% RH at104° F/40° C (non-condensing)

NX-5500 Package Contents

Verify that the box contains the following items:

Table 1 Contents of the NX-5500 Box

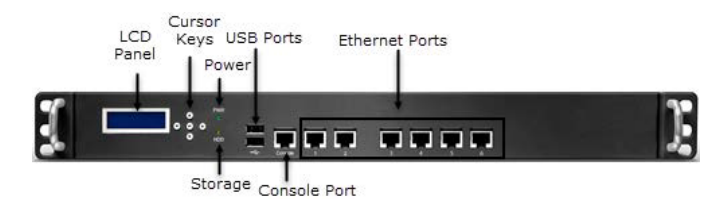
Quantity	Item
1	NX-5500 Quick Reference Guide
1	NX-5500 Series Integrated Services Platform
The following hardware is included	
1	Console cable
Left (L) Right (R) rack mount bracket assemblies, six M3 screws	

Hardware Installation

Before installing an NX-5500, verify the following:

- Match the model number on the purchase order with the model numbers in the packing list and on the NX-5500.
- Verify the contents of the box include the NX-5500 and the included hardware matches the package contents.

Figure 1 NX-5500 Front Panel



Site Preparation

- Consult your power and Ethernet cabling map to determine specific equipment placement, power drops, network connectivity, and so on.
- Assign installation responsibility to the appropriate personnel.
- Identify and document where all installed components are located.
- Provide a sufficient number of power drops for your equipment.
- Ensure adequate, dust-free ventilation to all installed equipment.
- Identify and prepare Ethernet and console port connections.
- Verify cable lengths are within the maximum allowable distances for optimal signal transmission.

Cautionary Statements

- There are no user-serviceable components inside the NX-5500. Opening the chassis will void the warranty.
- BIOS settings on the NX-5500 should not be changed. Changing any settings in the BIOS will void the warranty on the integrated services platform.
- To prevent the NX-5500 from overheating, never install in an enclosed area not properly ventilated or cooled. For proper airflow, keep the front and

back sides of the NX-5500 clear of obstructions and away from the exhaust of other equipment.

- The recommended operating temperature is 32°F to 104°F/0°C to 40°C. Installation in a closed or multi-rack assembly may raise the immediate ambient temperature above the average room temperature. Exercise due caution.
- Ensure the electrical circuit through which the NX-5500 is powered can safely accommodate a 100 Watt power supply.

It is recommended you connect the NX-5500 to an Uninterruptible Power Supply (UPS). There are instances in which the system software could become corrupt and un-recoverable in the event of power loss, for example, during a system upgrade, database backup or database restore operation.

Safety Instructions for Rack Mount Installations

Table 2 Safety Rack Mount Instructions

Item	Description
Rack Mount Brackets	Do not lift the NX-5500 using the rack mount brackets.
Rack Mount Kits	Use only industry-standard mounting kits when installing the NX-5500, as improper mounting may result in hardware failure and hazardous conditions.
Elevated Operating Ambient	If installing the NX-5500 in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than the room ambient temperature. Consideration should be given to installing the appliance in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.
Reduced Air Flow	Installation of the NX-5500 in a rack should be such that the amount of air flow required for safe operation is not compromised.
Mechanical Loading	Mounting the NX-5500 in a rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
Circuit Overloading	When connecting the NX-5500 to the supply circuit, ensure protection is provided to the NX-5500 and supply wiring to avoid circuit overloads. Carefully review the equipment nameplate ratings when addressing this concern.
Reliable Earthing	Reliable earthing of the rack mounted NX-5500 should be maintained.

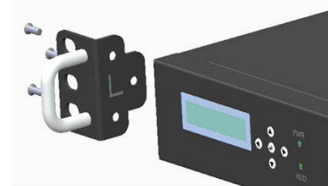
Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g., use of power strips).

NX-5500 Integrated Services Platform Installation Procedure

This section describes a new NX-5500 installation on a rack

- 1 Mount the NX-5500 in an equipment rack using industry standard rack mount brackets (19in).
- 2 Use 5.5lbs of torque to screw the brackets to the enclosure. Repeat the same procedure for the right side.

Figure 2 Attaching the Bracket to NX-5500



- 3 Connect the power cord.

Figure 3 NX-5500 Power Panel



- 4 Connect the Ethernet cables and connect the NX-5500 to the network.

- 5 Using a standard RS-232 console cable, connect the serial port on the NX-5500 to a serial port on a separate computer (the "configuration computer").

Use the following parameters for the serial connection:

Terminal Type	VT 100
Port	COM port
Terminal Settings	<ul style="list-style-type: none"> • 19200bps transfer rate • 8 data bits • no parity • 1 stop bit • no flow control • no hardware compression

- 6 Apply power to the NX-5500.
- 7 Verify the LCD panel is illuminated.

Basic Configuration Using the Management Interface

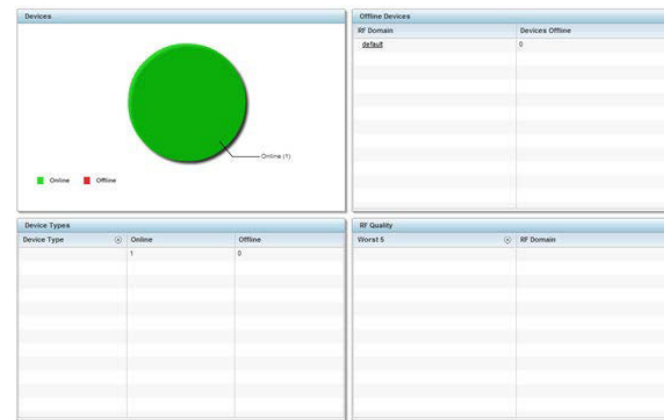
Once the NX-5500 hardware is installed and powered on, complete the following to access the Management Interface functions:

- 1 Connect one end of an Ethernet cable to one of the ports on the front of the NX-5500, and connect the other end to a computer with a working Web browser.
- 2 Set the computer to use an IP address between 192.168.0.10 and 192.168.0.254 on the connected port. Set a subnet /network mask of 255.255.255.0.
- 3 Once the computer has an IP address, point the Web browser to: <https://192.168.0.1>.

The following login screen displays:



- 4 Type the default username **admin** in the **Username** field.
- 5 Type the default password **admin123** in the **Password** field.
- 6 Click **Login**. A screen appears prompting you to change your password.
- 7 Change the password. The Dashboard displays.



You have now established a connection to the NX-5500 Management Interface.

For software configuration, please see the current WiNG Controller and Service Platform Reference Guide available at <http://www.extremenetworks.com/support/>

Notice

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Regulatory and Compliance Information Radio Frequency Interference Requirements - FCC

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Warnings



Warning: Please observe all warning notices with regard to the usage of wireless devices.

- Read all installation instructions and verify correct equipment installation before connecting the appliance to its power source.
- Remove jewelry and watches before installing this equipment.
- Verify the unit is grounded before connecting it to the power source.
- Verify any device connected to this unit is properly wired and grounded.
- Connect all power cords to a properly wired and grounded electrical circuit.
- Verify the electrical circuits have appropriate overload protection.
- Attach only approved power cords to the device.
- Verify the power connector and socket are accessible at all times during the operation of the equipment.

Radio Frequency Interference Requirements - Canada

CAN ICES-3 (A)/NMB-3(A).

CE Marking and European Economic Area (EEA)



Warning: This is a class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Statement of Compliance

Extreme Networks hereby declares that this device is in compliance with the essential requirements and other relevant provisions of Directives 2014/53/EU and 2011/65/EU. A Declaration of Conformity may be obtained from <http://www.extremenetworks.com/>.

Japan (VCCI) - Voluntary Control Council for Interference Class A ITE

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

Korea Warning Statement for Class A ITE

기종별	사용자안내문
A급 기기 (업무용 방송통신기자재)	이 기기는 업무용(A급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.

Chinese Warning Statement for Class A ITE

警告

此为A级产品，在生活环境中，该产品可能会造成无形电干扰。在这种情况下，可能需要用户对于干扰采取切实可行的措施。

European Waste Electrical and Electronic Equipment (WEEE) Notice



In accordance with Directive 2012/19/EU of the European Parliament on waste electrical and electronic equipment (WEEE):


- The symbol above indicates that separate collection of electrical and electronic equipment is required.
- When this product has reached the end of its serviceable life, it cannot be disposed of as unsorted municipal waste. It must be collected and treated separately.
- It has been determined by the European Parliament that there are potential negative effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment.
- It is the users' responsibility to utilize the available collection system to ensure WEEE is properly treated.

For information about the available collection system, please contact Extreme Environmental Compliance at Green@extremenetworks.com.

TURKISH WEEE Statement of Compliance

EEE Yönetmeliğine Uygundur

Access Point China ROHS Compliance

部件名称 (Parts)	有害物质 					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
金属部件 (Metal Parts)	X	○	○	○	○	○
电路模块 (Circuit Modules)	X	○	○	○	○	○
电缆及电缆组件 (Cables and Cable Assemblies)	X	○	○	○	○	○
塑料和聚合物部件 (Plastic and Polymeric Parts)	○	○	○	○	○	○
光学和光学组件 (Optics and Optical Components)	○	○	○	○	○	○
电池 (Batteries)	○	○	○	○	○	○

本表格依据 SJ/T 11364 的规定编制。

○: 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。

X: 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。

(企业可在此处，根据实际情况对上表中打“X”的技术原因进行进一步说明。)

ExtremeWireless™ WiNG™ NX-5500 Integrated Services Platform

Quick Reference

NX-5500-100R0-WR