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Installation Guide

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1 Introduction

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.

1.1 Document Conventions

The following graphical alerts are used in this document to indicate notable situations:

- **NOTE** Tips, hints, or special requirements that you should take note of.

- **CAUTION** Care is required. Disregarding a caution can result in data loss or equipment malfunction.

- **WARNING!** Indicates a condition or procedure that could result in personal injury or equipment damage.

1.2 Warnings

- 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.
- Do not install this equipment or work with its power circuits during thunderstorms or other weather conditions that could cause a power surge.
- Verify there is adequate ventilation around the device, and ambient temperatures meet equipment operation specifications.
1.3 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.

1.4 Package Contents

An NX-5500 Integrated Services Platform ships with the following:

- NX-5500 series Integrated Services Platform
- Console cable
- Left (L) Right (R) rack mount bracket assemblies, six M3 screws
- *NX-5500 Integrated Services Platform Installation Guide* (this document)
1.5 Cautionary Statements

**CAUTION** There are no user-serviceable components inside the NX-5500. Opening the chassis will void the warranty.

**CAUTION** 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.

**CAUTION** 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.

**CAUTION** 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.

**CAUTION** Ensure the electrical circuit through which the NX-5500 is powered can safely accommodate a 100 Watt power supply.

**CAUTION** 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.

1.6 Safety Instructions for Rack Mount Installations

- **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.
Installation Guide

• 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).

1.7 Power Supply Status LEDs
An NX5500 has a power LED on the front of the enclosure for power supply status. The LED functionality for the power supply is follows:

<table>
<thead>
<tr>
<th>State</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>No power to power supply.</td>
</tr>
<tr>
<td>Green</td>
<td>Power supply on. Normal operation.</td>
</tr>
</tbody>
</table>

1.8 Power Protection

• If possible, use a circuit dedicated to data processing equipment. Commercial electrical contractors are familiar with wiring for data processing equipment and can help with the load balancing of these circuits.

• Install surge protection. Be sure to use a surge protection device between the electricity source and the NX-5500.

• Install an Uninterruptible Power Supply (UPS). A UPS provides continuous power during a power outage. Some UPS devices have integral surge protection. UPS equipment requires periodic maintenance to ensure reliability. A UPS of the proper capacity for the data processing equipment must be purchased.
2  Hardware Installation

The following figure represents the front of the NX-5500:

![Diagram of NX-5500 front](image)

To prepare for the installation:

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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NX-5500-100R0-WR</td>
<td>NX-5500 Integrated Services Platform</td>
</tr>
</tbody>
</table>
2.1 Installing the NX-5500 Integrated Services Platform

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

2. Connect the power cord.

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

4. 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”).

5. Use the following parameters for the serial connection:

<table>
<thead>
<tr>
<th>Terminal Type</th>
<th>VT 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port</td>
<td>COM port</td>
</tr>
<tr>
<td>Terminal Settings</td>
<td>19200bps transfer rate 8 data bits no parity 1 stop bit no flow control no hardware compression</td>
</tr>
</tbody>
</table>

6. Apply power to the NX-5500.

7. Verify the LCD panel is illuminated.
3 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:

![Login Screen]

4. Enter the default username admin in the Username field.
5. Enter the default password admin123 in the Password field.
6. Click Login. A screen displays prompting you to change your password. Please 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 from the Support Website at [www.zebra.com/support](http://www.zebra.com/support).
4 Specifications

4.1 Physical Specifications

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>1U, 19&quot; rack mountable</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>16.93 in W x 1.73 in. H x 12.63 in. D</td>
</tr>
<tr>
<td></td>
<td>430 mm W x 44.2 mm H x 320.7 mm D</td>
</tr>
<tr>
<td>Weight</td>
<td>10 lbs</td>
</tr>
</tbody>
</table>

4.2 Environmental Specifications

<table>
<thead>
<tr>
<th>Operating Temperature</th>
<th>32°F to 104°F/0°C to 40°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Temperature</td>
<td>-4°F to 167°F/-20°C to 70°C</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>5% to 85% RH at 104°F/40°C (non-condensing)</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>5% to 95% RH at 104°F/40°C (non-condensing)</td>
</tr>
</tbody>
</table>

4.3 Power Specifications

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>100 W AC-DC power supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical Power Consumption</td>
<td>30 Watts</td>
</tr>
</tbody>
</table>
5 Regulatory Information

This device is approved under the Zebra Technologies Corporation.
This guide applies to the following Model Numbers: NX-55 devices.
All Zebra devices are designed to be compliant with rules and regulations in locations they are sold and will be labeled as required.
Local language translations are available at the following website: www.zebra.com/support.
Any changes or modifications to Zebra equipment, not expressly approved by Zebra, could void the user’s authority to operate the equipment.

5.1 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.

5.2 Radio Frequency Interference Requirements - Canada

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

5.3 CE Marking and European 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.
5.4 Statement of Compliance

Zebra hereby declares that this device is in compliance with all the applicable Directives, 2004/108/EC, 2006/95/EC, and 2011/65/EU. A Declaration of Conformity may be obtained from www.zebra.com/doc.

Japan Voluntary Control Council for Interference (VCCI) 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

<table>
<thead>
<tr>
<th>기종별</th>
<th>사용자 안내문</th>
</tr>
</thead>
<tbody>
<tr>
<td>A급 기기(업무용 방송통신기기제)</td>
<td>이 기기는 업무용(A급) 전자파적합기로서 판매자 또는 사용자는 이를 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.</td>
</tr>
</tbody>
</table>

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绳电话干扰。在这种情况下，可能需要用户对设备采取切实可行的措施。

Ukraine

Дане обладнання відповідає вимогам технічного регламенту №1057, № 2008 на обмеження щодо використання деяких небезпечних речовин в електричних та електронних пристроях.

Thailand

เครื่องโทรศัพท์แบบและอุปกรณ์ที่มีความสอดคล้องตามมาตรฐานของ กระทรวง 通信.
5.5 Waste Electrical and Electronic Equipment (WEEE)

**English:** For EU Customers: All products at the end of their life must be returned to Zebra for recycling. For information on how to return product, please go to: [www.zebra.com/weee](http://www.zebra.com/weee).

**Français:** Clients de l'Union Européenne: Tous les produits en fin de cycle de vie doivent être retournés à Zebra pour recyclage. Pour de plus amples informations sur le retour de produits, consultez : [www.zebra.com/weee](http://www.zebra.com/weee).

**Español:** Para clientes en la Unión Europea: todos los productos deberán entregarse a Zebra al final de su ciclo de vida para que sean reciclados. Si desea más información sobre cómo devolver un producto, visite: [www.zebra.com/weee](http://www.zebra.com/weee).

**Български:** За клиенти от ЕС: След края на полезния им живот всички продукти трябва да се връщат на Zebra за рециклиране. За информация относно връщането на продукти, моля отидете на адрес: [www.zebra.com/weee](http://www.zebra.com/weee).


**Italiano:** per i clienti dell'UE: tutti i prodotti che sono giunti al termine del rispettivo ciclo di vita devono essere restituiti a Zebra al fine di consentire il riciclaggio. Per informazioni sulle modalità di restituzione, visitare il seguente sito Web: [www.zebra.com/weee](http://www.zebra.com/weee).

**Português:** Para clientes da UE: todos os produtos no fim de vida devem ser devolvidos à Zebra para reciclagem. Para obter informações sobre como devolver o produto, visite: [www.zebra.com/weee](http://www.zebra.com/weee).

**Nederlands:** Voor klanten in de EU: alle producten dienen aan het einde van hun levensduur naar Zebra te worden teruggezonden voor recycling. Raadpleeg [www.zebra.com/weee](http://www.zebra.com/weee) voor meer informatie over het terugzenden van producten.

**Polski:** Klienci z obszaru Unii Europejskiej: Produkty wycofane z eksploatacji należą do firmy Zebra w celu ich utylizacji. Informacje na temat zwrotu produktów znajdzie się na stronie internetowej [www.zebra.com/weee](http://www.zebra.com/weee).

**Čeština:** Pro zákazníky z EU: Všechny produkty je nutné po skončení jejich životnosti vrátit společnosti Zebra k recyklyaci. Informace o způsobu vrácení produktu najdete na webové stránce: [www.zebra.com/weee](http://www.zebra.com/weee).

**Eesti:** EL klientidele: kõik tooted, mida ei tohi enne päevat olgu kasutanud, tuleb tagastada kohta külastage palun aadressi: [www.zebra.com/weee](http://www.zebra.com/weee).

**Magyar:** Az EU-ban vásárlóknek: Minden termék a Zebra vállalathoz kell eljuttatni újrahasznosítás céljából. A termék visszajuttatásának módjával kapcsolatos tudnivalókat látogasson el a [www.zebra.com/weee](http://www.zebra.com/weee) weboldalán.


**Suomi:** Asiakkaat Euroopan unionin alueella: Kaikki tuotteet on palautettava kierrätetäväksi Zebra-yhtiöön, kun tuotetta ei enää käytetä. Lisätietoa tuotteen palauttamisesta on osoitteessa [www.zebra.com/weee](http://www.zebra.com/weee).

**Dansk:** Til kunder i EU: Alle produkter skal returneres til Zebra til recirkulering, når de er udjent. Læs oplysningerne om retur af produkter på: [www.zebra.com/weee](http://www.zebra.com/weee).

**Ελληνικά:** Για πελάτες της Ε.Ε.: Όλα τα προϊόντα, στο τέλος της διάρκειας της ζωής τους, πρέπει να επιστρέφονται στην Zebra για ανακύκλωση. Για περισσότερες πληροφορίες σχετικά με την επιστροφή ενός προϊόντος, επισκεφθείτε τη διεύθυνση [www.zebra.com/weee](http://www.zebra.com/weee) στο Διαδίκτυο.

5.5.1 Turkish WEEE Statement of Compliance
EEE Yönetmeliğine Uygundur
6 Support

If you have a problem with your equipment, contact support for your region.

Contact information is available at: www.zebra.com/support

When contacting support, please provide the following information:

- Serial number of the unit
- Model number or product name
- Software type and version number

Support responds to calls by e-mail, telephone, or fax within the time limits set forth in support agreements. If you purchased your product from a business partner, contact that business partner for support.

Customer Support Web Sites

The Support site, located at www.zebra.com/support provides information and online assistance including developer tools, software downloads, product manuals and online repair requests.

Manual

www.zebra.com/support
7 Zebra Technologies Corporation ("Zebra") End-User Software License Agreement

BY INSTALLING AND/OR USING THIS PRODUCT, YOU ACKNOWLEDGE THAT YOU HAVE READ THIS AGREEMENT, UNDERSTAND IT AND AGREE TO BE BOUND ITS TERMS. IF YOU DO NOT AGREE TO THE TERMS OF THIS AGREEMENT, ZEBRA IS NOT WILLING TO LICENSE THE PRODUCT TO YOU, AND YOU MUST NOT INSTALL OR USE THIS PRODUCT.

Definitions

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**Limited Warranty**

Zebra warrants for a period of ninety (90) days from your receipt of the Products to you that the Software, under normal use, will perform substantially in accordance with Zebra’s published specifications for that release level of the Software. The written materials are provided “AS IS” and without warranty of any kind. Zebra’s entire liability and your sole and exclusive remedy for any breach of the foregoing limited warranty will be, at Zebra’s option, the provision of a downloadable patch or replacement code, or a refund of the unused portion of your bargained for contractual benefit up to the amount paid for the Products.

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**Limitation of Liability**

THE TOTAL LIABILITY OF ZEBRA UNDER THIS AGREEMENT FOR DAMAGES SHALL NOT EXCEED THE FAIR MARKET VALUE OF THE PRODUCTS LICENSED UNDER THIS AGREEMENT. IN NO EVENT WILL ZEBRA BE LIABLE IN ANY WAY FOR INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL OR PUNITIVE DAMAGES OF ANY NATURE, INCLUDING WITHOUT LIMITATION, LOST BUSINESS PROFITS, OR LIABILITY OR INJURY TO THIRD PERSONS, WHETHER FORESEEABLE OR NOT, REGARDLESS OF WHETHER ZEBRA HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Some jurisdictions do not permit limitations of liability for incidental or consequential damages, so the above exclusions may not apply to you. This Limitation of Liability provision survives the termination of this Agreement and applies notwithstanding any contrary provision in this Agreement. Licensee must bring any action under this Agreement within one (1) year after the cause of action arises.
Maintenance

Unless provided for in a separate agreement, Zebra shall not be responsible for maintenance or field service of the Products.

High Risk Activities

The Products are not fault-tolerant and are not designed, manufactured or intended for use or resale as on-line control software in hazardous environments requiring fail-safe performance, such as in the operation of nuclear facilities, aircraft navigation or communication systems, air traffic control, direct life support machines, or weapons systems, in which the failure of the Products could lead directly to death, personal injury, or severe physical or environmental damage ("High Risk Activities"). Zebra and its suppliers specifically disclaim any express or implied warranty of fitness for High Risk Activities, and if you elect to use the Products in any High Risk Activities, you agree to indemnify, defend, and hold Zebra harmless from and against any and all costs, damages, and losses related to that use.

U.S. Government

If you are acquiring the Products on behalf of any unit or agency of the U.S. Government, the following shall apply. Use, duplication, or disclosure of the Products is subject to the restrictions set forth in subparagraphs (c) (1) and (2) of the Commercial Computer Software - Restricted Rights clause at FAR 52.227-19 (JUNE 1987), if applicable, unless being provided to the Department of Defense. If being provided to the Department of Defense, use, duplication, or disclosure of the Products is subject to the restricted rights set forth in subparagraph (c) (1) (ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013 (OCT 1988), if applicable. Products may or may not include a Restricted Rights notice, or other notice referring specifically to the terms and conditions of this Agreement. The terms and conditions of this Agreement shall each continue to apply, but only to the extent that such terms and conditions are not inconsistent with the rights provided to you under the aforementioned provisions of the FAR and DFARS, as applicable to the particular procuring agency and procurement transaction.

Assignment

Except as otherwise provided in this section, neither party may assign this Agreement, or any of its rights or obligations under this Agreement, without the prior written approval of the other party, which will not be unreasonably withheld. Any attempted assignment, delegation, or transfer without the necessary approval will be void. Notwithstanding the foregoing, for any Zebra acquisition, merger, consolidation, reorganization, or similar transaction, or any spin-off, divestiture, or other separation of a Zebra business, Zebra may, without the prior written consent of the other party: (i) assign its rights and obligations under this Agreement, in whole or in part, or (ii) split and assign its rights and obligations
under this Agreement so as to retain the benefits of this Agreement for both Zebra and the assignee entity(ies) (and their respective Affiliates) following the split.

**Governing Law**

This Agreement shall be governed by the laws of the United States of America to the extent that they apply and otherwise by the laws of the State of New York without regard to its conflict of laws provisions or by the internal substantive laws of the country to which the Products is shipped if end-user customer is a sovereign governmental entity. The terms of the U.N. Convention on Contracts for the International Sale of Goods do not apply. In the event that the Uniform Computer information Transaction Act, any version of this Act, or a substantially similar law (collectively “UCITA”) becomes applicable to a Party’s performance under this Agreement, UCITA does not govern any aspect of this End User License Agreement or any license granted under this End-User License Agreement, or any of the parties' rights or obligations under this End User License Agreement. The governing law will be that in effect prior to the applicability of UCITA.

**Compliance with Laws**

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## 8 NX-5500 China RoHS Compliance

<table>
<thead>
<tr>
<th>部件名称 (Parts)</th>
<th>有害物质</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>铅 (Pb)</td>
</tr>
<tr>
<td>金属部件 (Metal Parts)</td>
<td>X</td>
</tr>
<tr>
<td>电路模块 (Circuit Modules)</td>
<td>X</td>
</tr>
<tr>
<td>电缆及电缆组件 (Cables and Cable Assemblies)</td>
<td>O</td>
</tr>
<tr>
<td>塑料和聚合物部件 (Plastic and Polymeric Parts)</td>
<td>O</td>
</tr>
<tr>
<td>光学和光学组件 (Optics and Optical Components)</td>
<td>O</td>
</tr>
<tr>
<td>电池 (Batteries)</td>
<td>O</td>
</tr>
</tbody>
</table>

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0: 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。
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