



NX 9000 Enterprise NOC Wireless LAN Controller

Installation Guide



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1 Introduction

The NX 9000 NOC Controller lets you centrally control networks up to 10,000 WLAN access points that are geographically dispersed over many telecommuter and small or medium sized enterprise locations. WiNG 5 access points intelligently handle the traffic flows, quality of service, mobility and security at remotely distributed locations, while the NX 9000 provides a single point for configuration, policy setting and remote troubleshooting. Hotspot configuration, security policy management, and statistics aggregation are all done by one powerful NOC controller. This efficient WLAN architecture makes controlling the network easier and reduces the hardware OPEX needed 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 site survey reports, and verify correct equipment installation before connecting the appliance to its power source.
- Remove jewelry and watches before installing this equipment.
- Verify that the unit is grounded before connecting it to the power source.
- Verify that any device connected to this unit is properly wired and grounded.
- Connect all power cords to a properly wired and grounded electrical circuit.
- Verify that the electrical circuits have appropriate overload protection.
- Attach only approved power cords to the device.
- Verify that the power connector and socket are accessible at all times during the operation of the equipment.
- Do not work with power circuits in dimly lit spaces.
- 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 that ambient temperatures meet equipment operation specifications.

1.3 Site Preparation

- Consult your site survey and network analysis reports to determine specific equipment placement, power drops, 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 that cable lengths are within the maximum allowable distances for optimal signal transmission.

2 Getting Started

This guide provides a pre-installation checklist and instructions for installing the NX 9000, accessing the Graphical User Interface (GUI), and performing initial appliance configuration.

2.1 Pre-installation Checklist

Location & Equipment

- Appliance and box contents
- Standard, grounded 100-240 VAC 50/60 Hz connection
- UPS (uninterruptable power supply)
- Keyboard and monitor
- Standard 19-inch rack (1U height) with mounting rails.

Network Access Requirements

- TCP 22—used for SSH (protocol 2 only) access for occasional administrative tasks.

2.2 Overview

Getting started with NX 9000 is a three step process. Each step is described in this book.

1. Install the NX 9000.
2. Power up the appliance.
3. Access the NX 9000 Management Interface.

2.3 Cautionary Statements



CAUTION Motorola highly recommends that you change all passwords at your earliest opportunity.



CAUTION There are no user-serviceable components inside the NX 9000. Opening the chassis will void the warranty.



CAUTION The recommended ambient operating temperature of the NX 9000 is 10°C - 35°C (50°F - 95°F). Installation in a closed or multi-rack assembly may raise the immediate ambient temperature above the average room temperature. Exercise due caution.



CAUTION Provide adequate spacing above, below, and behind the NX 9000, to allow proper air flow, and to prevent excessive heat buildup.



CAUTION Use only industry-standard mounting kits when installing the NX 9000, as improper mounting may result in hardware failure and hazardous conditions.



CAUTION Ensure that the electrical circuit through which the NX 9000 is powered can safely accommodate a 500 Watt power supply.



CAUTION Motorola highly recommends that you connect the NX 9000 to a UPS (uninterruptible power supply). 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.



CAUTION There is a risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

2.4 Safety Instructions for Rack Mount Installations

The following safety precautions shall be adhered to when mounting the NX 9000 into a rack:

- **Elevated Operating Ambient**—If installing the NX 9000 in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than the room ambient. Consideration should be given to installing the appliance in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.
- **Reduced Air Flow**—Installation of the appliance in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
- **Mechanical Loading**—Mounting of the appliance in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
- **Circuit Overloading**—Consideration should be given when connecting the NX 9000 to the supply circuit so that protection is provided to the NX 9000 and supply wiring if any circuit overloads occur. Appropriate consideration of the equipment nameplate ratings should be used when addressing this concern.
- **Reliable Earthing**—Reliable earthing of rack-mounted appliances 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).

3 Installation Steps

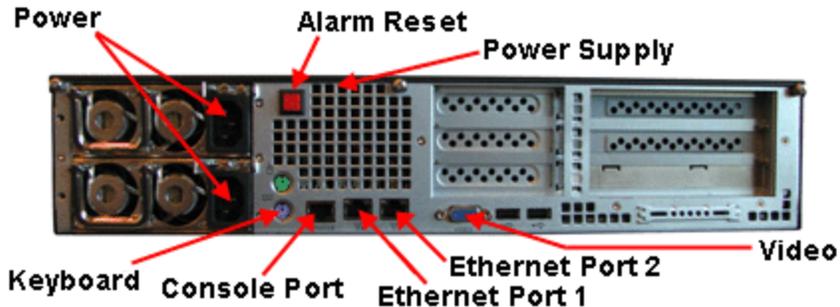
3.1 Step 1: Install the NX 9000

The first step in deploying NX 9000 is to physically install the appliance in a rack and connect the cables.



NOTE The handles in front of the unit are intended only for sliding it in and out of the rack. The handles are not to be used for carrying the appliance.

1. Install the NX 9000 in an equipment rack using the rails provided.
(Detailed instructions included in each rail kit box.)
 - a. Disassemble the slide rail by pushing down hook to separate.
 - b. Fasten 8 screws to fix inner rails on chassis.
 - c. Fasten L shape and out piece of rail together.
 - d. Mount L shape and external rail to rack frame.
 - e. Insert chassis to frame.
2. Connect the NX 9000 to the network using the 10/100/1000 LAN port on the back panel.
(See the next section for more information.)
3. For first-time installation, set up the NX 9000 locally. Connect the keyboard and monitor to the NX 9000, using the video and keyboard ports on the back panel.



NX 9000 Enterprise NOC Wireless LAN Controller (Rear View)

Which Ethernet port do I use for appliance network connectivity?

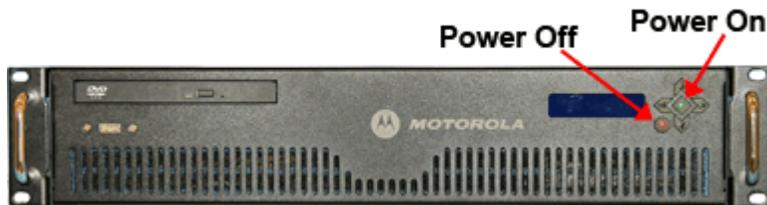
You can use any Ethernet port for NX 9000 network connectivity.

3.2 Step 2: Power up the Appliance

Press the **Power On** button (green LCD ✓ button) for 2 seconds.



NOTE When the power cord is connected for the first time, it takes some time to charge all capacitors and it may take some time before the LCD switch on front panel becomes responsive. Please wait 10-15 seconds when first connecting the power cord, then press and hold the On button for approximately 5 seconds if the appliance doesn't power up immediately.



NX 9000 Enterprise NOC Wireless LAN Controller (Front View)



NOTE The NX 9000 has a redundant Power Supply and if only one Power Supply is working or plugged in, the alarm will sound. You can reset the power supply alarm by pressing the red button on the back of the appliance.



NOTE The red LCD **X** button is the **Power Off** button. Press this button for 4 seconds to power down the system.

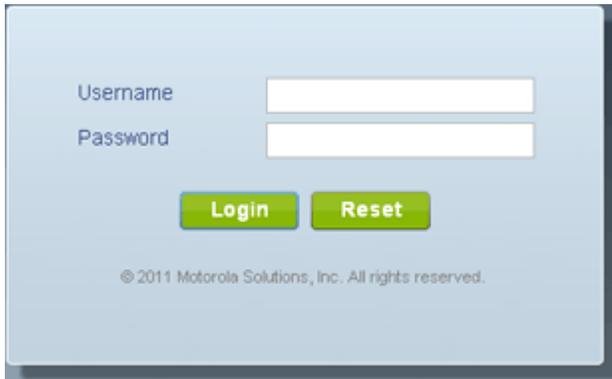


NOTE Press and hold green LCD ✓ button for 4 seconds or more to restart appliance.

3.3 Step 3 Access the NX 9000 Management Interface

Once the NX 9000 hardware is installed and powered on, complete the following steps to get the device up and running on and access the management functions on the controller:

1. Connect one end of an Ethernet cable to one of the ports on the back of the NX 9000 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 192.168.0.250 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/> and the following login screen will display.



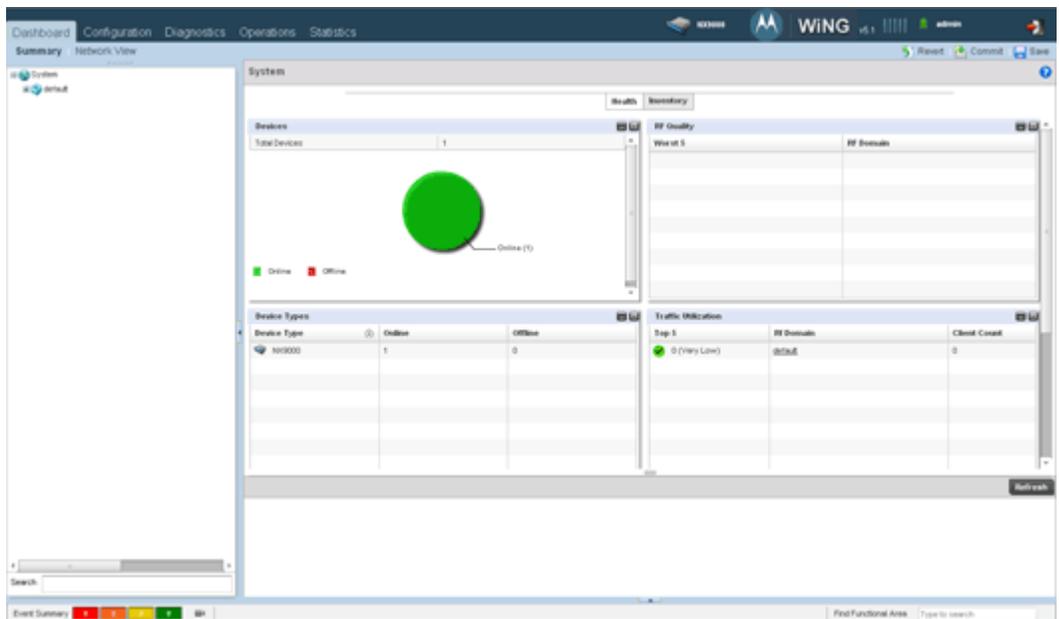
4. Enter the default username *admin* in the **Username** field.
5. Enter the default password *motorola* in the **Password** field.
6. Click **Login**. You are then prompted to change your password.



7. Enter a new password and then enter it again to confirm it.
8. Click **Apply**. The password change is then confirmed.



9. Click **OK**. The NX 9000 Dashboard is displayed.



You have now established a connection to NX 9000 management interface.

4 Regulatory Information

This device is approved under the Motorola Solutions, Inc. brand (“Motorola”).

This regulatory section applies to the AirDefense Model 4250 appliance.

All Motorola Solutions 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:

<http://supportcentral.motorola.com/support/product/manuals.do>.

Any changes or modifications to Motorola Solutions equipment, not expressly approved by Motorola Solutions, could void the user’s authority to operate the equipment.



CAUTION Operation of the device without regulatory approval is illegal.



WARNING! This product is designed and approved for in-building installation only and is not intended to be connected to exposed (outside plant) networks.



Laser Devices - DVD/CD Rewritable Drive

Complies with 21CFR1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007 and IEC 60825-1 (Ed. 2.0), EN 60825-1: 2007.

The laser classification is marked on the device.

Class 1 Laser devices are not considered to be hazardous when used for their intended purpose.

The following statement is required to comply with US and international regulations:



CAUTION Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

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.

Radio Frequency Interference Requirements - Canada

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada..



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

Motorola Solutions hereby declares that this device is in compliance with all the applicable Directives, 2004/108/EC, 2006/95/EC. A Declaration of Conformity may be obtained from <http://www.motorola.com/doc>.

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。

This is a Class A product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this equipment is used in a domestic environment, radio interference may occur, in which case, the user may be required to take corrective actions.

Korea Warning Statement for Class A ITE

기종별	사용자안내문
A 급 기기 (업무용 방송통신기기)	이 기기는 업무용 (A 급) 으로 전자파적합등록을 한 기기이오니 판매자 또는 사용자는 이 점을 주의 하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.

Class	User's Guide
Class A (Broadcasting Communication Device for Office Use)	This device obtained EMC registration for office use (Class A), and it is intended to use in other than home area. Sellers or users need to take note of this.



Waste Electrical and Electronic Equipment (WEEE)

English: For EU Customers: All products at the end of their life must be returned to Symbol for recycling. For information on how to return product, please go to:
http://www.symbol.com/environmental_compliance.

Čeština: Pro zákazníky z EU: Všechny produkty je nutné po skončení jejich životnosti vrátit společnosti Symbol k recyklaci. Informace o způsobu vrácení produktu najdete na webové stránce: http://www.symbol.com/environmental_compliance.

Dansk: Til kunder i EU: Alle produkter skal returneres til Symbol til recirkulering, når de er udtjent. Læs oplysningerne om returnering af produkter på: http://www.symbol.com/environmental_compliance.

Deutsch: Für Kunden innerhalb der EU: Alle Produkte müssen am Ende ihrer Lebensdauer zum Recycling an Symbol zurückgesandt werden. Informationen zur Rücksendung von Produkten finden Sie unter http://www.symbol.com/environmental_compliance.

Eesti: EL klientidele: kõik tooted tuleb nende eluea lõppedes tagastada taaskasutamise eesmärgil Symbol'ile. Lisainformatsiooni saamiseks toote tagastamise kohta külastage palun aadressi: http://www.symbol.com/environmental_compliance.

Español: Para clientes en la Unión Europea: todos los productos deberán entregarse a Symbol al final de su ciclo de vida para que sean reciclados. Si desea más información sobre cómo devolver un producto, visite: http://www.symbol.com/environmental_compliance.

Ελληνικά: Για πελάτες στην Ε.Ε.: Όλα τα προϊόντα, στο τέλος της διάρκειας ζωής τους, πρέπει να επιστρέφονται στην Symbol για ανακύκλωση. Για περισσότερες πληροφορίες σχετικά με την επιστροφή ενός προϊόντος, επισκεφθείτε τη διεύθυνση http://www.symbol.com/environmental_compliance στο Διαδίκτυο.

Français : Clients de l'Union Européenne : Tous les produits en fin de cycle de vie doivent être retournés à Symbol pour recyclage. Pour de plus amples informations sur le retour de produits, consultez : http://www.symbol.com/environmental_compliance.

Italiano: per i clienti dell'UE: tutti i prodotti che sono giunti al termine del rispettivo ciclo di vita devono essere restituiti a Symbol al fine di consentirne il riciclaggio. Per informazioni sulle modalità di restituzione, visitare il seguente sito Web: http://www.symbol.com/environmental_compliance.

Latviešu: ES klientiem: visi produkti pēc to kalpošanas mūža beigām ir jānogādā atpakaļ Symbol otrreizējai pārstrādei. Lai iegūtu informāciju par produktu nogādāšanu Symbol, lūdzu, skatiet: http://www.symbol.com/environmental_compliance.

Lietuvių: ES vartotojams: visi gaminiai, pasibaigus jų eksploatacijos laikui, turi būti gražinti utilizuoti į kompaniją „Symbol“. Daugiau informacijos, kaip gražinti gamini, rasite: http://www.symbol.com/environmental_compliance.

Magyar: Az EU-ban vásárlóknak: Minden tönkrement termékét a Symbol vállalatához kell eljuttatni újrahaznosítás céljából. A termék visszajuttatásának módjával kapcsolatos tudnivalóként látogasson el a http://www.symbol.com/environmental_compliance weboldalra.

Malti: Għal klijenti fl-UE: il-prodotti kollha li jkunu waslu fl-aħħar tal-ħajja ta' l-użu tagħhom, iridu jiġu rritornati għand Symbol għar-riċiklaġġ. Għal aktar taġħrif dwar kif għandek tirritorna l-prodott, jekk jogħġbok żur: http://www.symbol.com/environmental_compliance.

Nederlands: Voor klanten in de EU: alle producten dienen aan het einde van hun levensduur naar Symbol te worden teruggezonden voor recycling. Raadpleeg http://www.symbol.com/environmental_compliance voor meer informatie over het terugzenden van producten.

Polski: Klienci z obszaru Unii Europejskiej: Produkty wycofane z eksploatacji należy zwrócić do firmy Symbol w celu ich utylizacji. Informacje na temat zwrotu produktów znajdują się na stronie internetowej http://www.symbol.com/environmental_compliance.

Português: Para clientes da UE: todos os produtos no fim de vida devem ser devolvidos à Symbol para reciclagem. Para obter informações sobre como devolver o produto, visite: http://www.symbol.com/environmental_compliance.

Slovenski: Za kupce v EU: vsi izdelki se morajo po poteku življenjske dobe vrniti podjetju Symbol za reciklažo. Za informacije o vračilu izdelka obiščite: http://www.symbol.com/environmental_compliance.

Slovenščina: Pre zákazníkov z krajín EU: Všetky výrobky musia byť po uplynutí doby ich životnosti vrátené spoločnosti Symbol na recykláciu. Bližšie informácie o vrátení výrobkov nájdete na: http://www.symbol.com/environmental_compliance.

Suomi: Asiakaat Euroopan unionin alueella: Kaikki tuotteet on palautettava kierrätettäväksi Symbol-yhtiöön, kun tuotetta ei enää käytetä. Lisätietoja tuotteen palauttamisesta on osoitteessa http://www.symbol.com/environmental_compliance.

Türkçe: AB Müşterileri için: Kullanım süresi dolan tüm ürünler geri dönüşürme için Motorola'ya iade edilmelidir. Ürünlerin nasıl iade edileceği hakkında bilgi için lütfen şu adresi ziyaret edin: http://www.symbol.com/environmental_compliance.

5 Part Numbers, Support, and Sales

Part Number

Description	Part Number
NX 9000	NX-9000-100R0-WR

Motorola Solutions's Enterprise Mobility Support Center

If you have a problem with your equipment, contact your reseller or Enterprise Mobility support for your region. Support and issue resolution is provided for products under warranty or that are covered by an Enterprise Mobility Services agreement. Contact information and web self-service is available by visiting <http://supportcentral.motorola.com/>.

When contacting Enterprise Mobility support, please provide the following information:

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

Motorola responds to calls by email or telephone within the time limits set forth in support agreements. If you purchased your Enterprise Mobility business product from a Motorola business partner, contact that business partner for support.

Customer Support Web Site

Motorola's Support Central Web site, located at <http://supportcentral.motorola.com/> provides information and online assistance including developer tools, software downloads, product manuals, support contact information and online repair requests.

Manuals

Refer to the following documents to help you use the system more effectively:

- Motorola Solutions WiNG 5 System Reference Guide
- Motorola Solutions WiNG 5 CLI Reference Guide

These documents are available at: <http://supportcentral.motorola.com/support/product/manuals.do>

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7 NX 9000 China ROHS Compliance

部件名称 (Parts)	有毒有害物质或元素 					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr ⁶⁺)	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)	○	○	○	○	○	○

○ : 表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T11363-2006 标准规定的限量要求以下。

X : 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11363-2006 标准规定的限量要求。

对销售之日的所售产品，本表表示，公司供应链的电子信息产品可能包含这些物质。注意：在所售产品中可能会也可能不会含有所有所列的部件。

This table was created to comply with China RoHS requirements.



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