Altitude™ 3510 Access Point
Installation Guide

extreme
networks

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① Introduction

The Extreme Networks® Altitude™ 3510 Access Point (AP) provides a bridge between Ethernet wired LANs or WANs and wireless networks. It provides connectivity between Ethernet wired networks and radio-equipped *mobile units* (MUs).

The AP3510 provides a maximum 54Mbps data transfer rate via each radio. It monitors Ethernet traffic and forwards appropriate Ethernet messages to MUs over the network. It also monitors MU radio traffic and forwards MU packets to the Ethernet LAN.

An AP3510 can be adopted, configured and managed from a wireless controller. The management of the AP3510 is conducted by a controller, only after the AP3510 connects to a Summit® WM3600 or Summit WM3700 model controller and receives its configuration.

The Extreme Networks AP3510 Access Point comes with a dual 802.11a+g radio and external antenna. The AP model number is based on the regulatory domain which is determined by the country of use:

Part Number	Model Number	Regulatory Domain
15720	AP3510-US	For use in the US only
15721	AP3510-ROW	For use in Europe & Rest of World (RoW)
15723	AP3510-IL	For use in Israel only

The following power adapters must be used with the above access points if PoE is not chosen as the power source:

Part Number	Model
15728	Power Supply-Altitude 3510 (for use only with AP3510 access point)

If new to the AP3510 and access point technology, refer to the *Altitude 35x0 Access Point Product Reference Guide* to familiarize yourself with access point technology and the feature set exclusive to the Extreme Networks AP3510. The guide is available, at http://www.extremenetworks.com/go/documentation.

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.

Warnings

- Read all installation instructions and site survey reports, and verify correct equipment installation before connecting the AP3510 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.

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 **AP3510 Specifications**

Physical Characteristics

The AP3510 has the following physical characteristics:

Dimensions	5.32 inches long x 9.45 inches wide x 1.77 inches thick. 135 mm long x 240 mm wide x 45 mm thick.
Housing	Metal, plenum-rated housing (UL2043)
Weight	1.95 lbs/0.88 Kg
Operating Temperature	-4°F to 122°F / -20°C to 50°C
Storage Temperature	-40°F to 158°F / -40°C to 70°C
Altitude	8,000 feet/2438m @ 28°F / 28°C (operating) 15,000 feet/4572m @ 53°F / 12°C (storage)
Vibration	Vibration to withstand .02g/Hz, random, sine, 20-2k Hz
Humidity	5 to 95% (operating) 5 to 85% (storage)
Electrostatic Discharge	15kV (air) 8kV (contact)
Drop	Bench drop 36 inches to concrete (excluding side with connectors)

Electrical Characteristics

The AP3510 has the following input power requirements:

Nominal Operating Voltage	48V DC (Nom)
Nominal Operating Current	250mA @ 48V DC PoE (802.3af compatible)

Radio Characteristics

The AP3510 has the following radio characteristics. See the datasheet for additional radio details. The following are radio capabilities. Actual operating power, channels / frequencies are determined by unique regulatory rules for each country certified. See **http://www.extremenetworks.com/go/rfcertification.htm** for a list of countries certified. See "Regulatory Compliance" on page 29 for additional regulatory information.

Transmit Power	802.11b/g 19 dBm +/- 1 dBm @ 1, 2, 5.5, 11 Mbps 19 dBm +/- 1 dBm @ 6 and 9 Mbps 18 dBm +/- 1 dBm @ 12 and 18 Mbps 17 dBm +/- 1 dBm @ 24 and 36 Mbps 16 dBm +/- 1 dBm @ 48 and 54 Mbps 802.11a 17 dBm +/- 1 dBm @ 6 and 9 Mbps 16 dBm +/- 1 dBm @ 12 and 18 Mbps 15 dBm +/- 1 dBm @ 24 and 36 Mbps 14 dBm +/- 1 dBm @ 48 and 54 Mbps
Operating Channels	802.11a radio - Channels 35-165 (4920-5850 MHz) 802.11b/g radio - Channels 1-13 (2412-2472 MHz) 802.11b/g radio - Channel 14 (2484 MHz Japan only) *Actual operating frequencies depend on regulatory rules and certification agencies.*
Radio Data Rates	802.11a radio 6, 9, 12, 18, 24, 36, 48, and 54 Mbit/Sec 802.11g radio 6, 9, 12, 18, 24, 36, 48, and 54 Mbit/Sec 802.11b radio 1, 2, 5.5, 11 Mbps
Wireless Medium	Direct Sequence Spread Spectrum (DSSS) Orthogonal Frequency Division Multiplexing (OFDM)

3 Hardware Installation

An AP3510 installation includes mounting the AP3510 on a table-top, wall, ceiling T-bar or above the ceiling orientation, connecting the AP3510 to the network (LAN or WAN port connection), connecting antennas and applying power. Installation procedures vary for different environments.

Precautions

Before installing the AP3510 verify the following:

- Do not install in wet or dusty areas without additional protection. Contact an Extreme Networks representative for more information.
- Verify the environment has a continuous temperature range between -20° C to 50° C.

Package Contents

Check package contents for the correct model AP3510 depending on your country of application and applicable AP3510 accessories. Each available configuration (at a minimum), contains:

- AP3510 Dual 802.11a+g radio, external antenna. The part number is dependent on the regulatory domain:

Part Number	Model Number	Regulatory Domain
15720	AP3510-US	For use in the US only
15721	AP3510-ROW	For use in Europe & Rest of World (RoW)
15723	AP3510-IL	For use in Israel only

- *Altitude 3510 Access Point Installation Guide*
- Accessories Bag (4 rubber feet for desk mounting and an LED light pipe and badge with label for above the ceiling installations)

Verify the model indicated on the bottom of the AP3510 is correct. Contact the Extreme Networks Support Center to report missing or improperly functioning items.

AP3510 Placement

For optimal performance, install the AP3510 away from transformers, heavy-duty motors, fluorescent lights, microwave ovens, refrigerators and other industrial equipment. Signal loss can occur when metal, concrete, walls or floors block transmission. Install the AP3510 in open areas or add access points as needed to improve coverage.

Place the AP3510 using the following guidelines:

● Install the AP3510 at an ideal height of 10 feet from the ground.
● Orient the AP3510 antenna vertically for best reception.
● Point the AP3510 antenna(s) downward if attaching to the ceiling.

Extreme Networks recommends conducting a site survey to define and document radio interference obstacles before installing the AP3510 to maximize its radio coverage area.

AP3510 Antenna Options

Both Radio 1 and Radio 2 require one antenna and can optimally use two antennas per radio. Two antennas per radio provides diversity that can improve performance and signal reception. The AP3510 is shipped with four dualband, omnidriectional paddle antennas for indoor use. The nominal net gain for the antenna is 3.0dBi on a 2.4 GHz radio and 4.0dBi on a 5GHz radio. For more information on the antenna options available to the AP3510, refer to the *Altitude™ 35xx/45xx AP Antenna Selection Guide* available from http://www.extremenetworks.com/go/documentation.

NOTE

On an AP3510, Radio 1 refers to the AP3510's 2.4 GHz radio and Radio 2 refers to the AP3510 5.2 GHz radio. However, there could be some cases where an AP3510 is performing a Rogue AP detector function. In this scenario, the AP3510 is receiving in either 2.4 GHz or 5.2 GHz over the Radio 1 or Radio 2 antennas depending on which radio is selected for the scan.

Antenna connectors for Radio 1 are located in a different location from the Radio 2 antenna connectors.

Radio 1

Radio 2
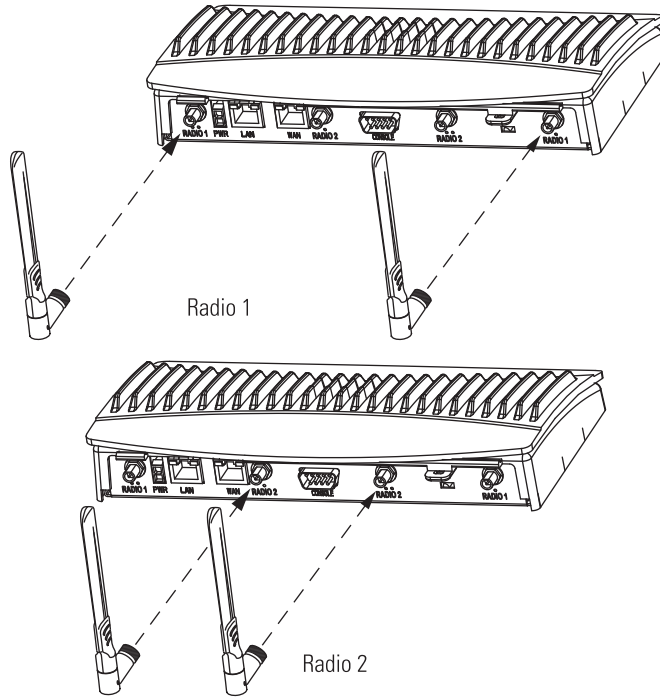
Powering the Access Point

The AP3510 can receive power in one of three ways:

- Power over Ethernet (PoE) - If your network is already set up with PoE (802.3af compliant), attach the LAN Ethernet cable to the AP3510's LAN port.

- Power over Ethernet: Adding PoE injector - If your network is not set up with PoE, you can provide power to the Ethernet cable with a PoE injector. The PoE injector must be 802.3af compliant. The PoE injector is not provided with the AP3510.

- Power by AC adaptor - Extreme Network's 48V AC-DC power supply (Part No. 15728) can be used to power the AP3510. It is not included in the kit and is orderable separately as an accessory.

CAUTION

The AP3510 supports any standards-based 802.3af compliant power source. However, using the wrong solution could severely damage the AP3510 and void the product warranty.

Mounting the AP3510

The AP3510 can rest on a flat surface, attach to a wall, mount under a suspended T-Bar or above a ceiling (plenum or attic). Choose one of the following mounting options based on the physical environment of the coverage area. Do not mount the AP3510 in a location that has not been approved in a site survey.

Desk Mounting

The desk mount option uses rubber feet (found in the accessories bag shipped with the AP3510) allowing the unit to sit on most flat surfaces.

To install the AP3510 in a desk mount orientation:

1 Turn the AP3510 upside down.

2 Remove the backings from the four (4) rubber feet and attach them to the four rubber feet recess areas on the AP3510.
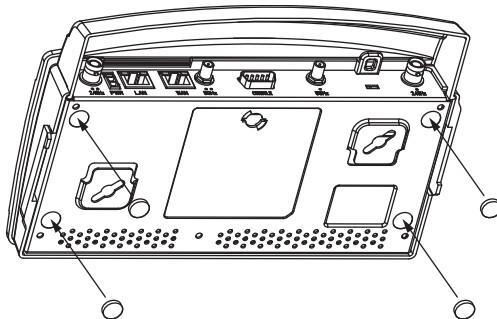
3 Attach the Radio 1 and Radio 2 antennas to their correct connectors. The antenna covers will most likely need to be removed to orient the antenna upward in a typical desktop installation.

For more information on the antenna options available to the AP3510, refer to the *Altitude™ 35xx/45xx AP Antenna Selection Guide* available from http://www.extremenetworks.com/go/documentation.

CAUTION

Ensure you are placing the antennas on the correct connectors to ensure the successful operation of the AP3510.

4 Cable the AP3510 using either an 802.3af standard power source or an approved line cord and power supply.

For standard power adapter and line cord installations:

a Connect an RJ-45 Ethernet cable between the network data supply (host) and the AP3510 LAN port.

b Verify the power adapter is correctly rated according the country of operation.

c Connect the power supply line cord to the power adapter.

d Attach the power adapter cable into the power connector on the AP3510.

e Attach the power supply line cord to a power supply

CAUTION

Do not actually connect to the power source until the cabling portion of the installation is complete.

NOTE

For other options to power up the AP3510, refer to "Powering the Access Point" on page 13.

5 Verify the behavior of the AP3510 LEDs. For more information, see "LED Indicators" on page 23.

6 Return the AP3510 to an upright position and place it in the location you wish it to operate. Ensure the AP3510 is sitting evenly on all four rubber feet.

7 The AP3510 is ready to configure. For information on basic AP3510 device configuration, see "Basic AP3510 Configuration" on page 25.

Wall Mounting

Wall mounting requires hanging the AP3510 along its width (or length) using the pair of slots on the bottom of the unit and using the AP3510 itself as a mounting template for the screws.

CAUTION

An AP3510 should be wall mounted to concrete or plaster-wall-board (dry wall) only. Do not wall mount an AP3510 to combustible surfaces.

● The mounting hardware and tools (customer provided) required to install the AP3510 on a wall consists of:

● Two Phillips pan head self-tapping screws
(ANSI Standard) #6-18 X 0.875in. Type A or AB Self-Tapping screw, or
(ANSI Standard Metric) M3.5 X 0.6 X 20mm Type D Self-Tapping screw

● Two wall anchors

● Security cable (optional)

To mount the AP3510 on a wall:

1 Orient the AP3510 on the or ceiling by its width or length.

2 Using the arrows on one edge of the case as guides, move the edge to the midline of the mounting area and mark points on the midline for the screws.

3 At each point, drill a hole in the wall, insert an anchor, screw into the anchor the wall mounting screw and stop when there is 1mm between the screw head and the wall.

   If pre-drilling a hole, the recommended hole size is 2.8mm (0.11in.) if the screws are going directly into the wall and 6mm (0.23in.) if wall anchors are being used.

4 If required, install and attach a security cable to the AP3510 lock port.

5 Attach the Radio 1 and Radio 2 antennas to their correct connectors.

6 For information on the antennas available to the AP3510, see "AP3510 Antenna Options" on page 12.

7 Place the large corner of each of the mount slots over the screw heads.

8 Slide the AP3510 down along the mounting surface to hang the mount slots on the screw heads.

> ⚠ **CAUTION**
>
> *Ensure you are placing the antennas on the correct connectors to ensure the successful operation of the AP3510.*

> ℹ **NOTE**
>
> *The AP3510 must be mounted with the RJ45 cable connector oriented upwards to ensure proper operation.*

9   Cable the AP3510 using an approved line cord and power supply.

   For standard power adapter and line cord installations:

   a   Connect a RJ-45 Ethernet cable between the network data supply (host) and the AP3510 LAN port.

   b   Verify the power adapter is correctly rated according the country of operation.

   c   Connect the power supply line cord to the power adapter.

   d   Attach the power adapter cable into the power connector on the AP3510.

   e   Attach the power supply line cord to a power supply.

> ⚠ **CAUTION**
>
> *Do not actually connect to the power source until the cabling portion of the installation is complete.*

> ℹ **NOTE**
>
> *For other options to power up the AP3510, refer to "Powering the Access Point" on page 13.*

10   Verify the behavior of the AP3510 LEDs. For more information, see "LED Indicators" on page 23.

11   The AP3510 is ready to configure. For information on basic AP3510 device configuration, see "Basic AP3510 Configuration" on page 25.

Suspended Ceiling T-Bar Installations

A suspended ceiling mount requires holding the AP3510 up against the T-bar of a suspended ceiling grid and twisting the AP3510 chassis onto the T-bar.

The mounting hardware and tools (customer provided) required to install the AP3510 on a ceiling T-bar consists of:

● Safety wire (recommended)
● Security cable (optional)

To install the AP3510 on a ceiling T-bar:

1 If required, loop a safety wire — with a diameter of at least 1.01 mm (.04 in.), but no more than 0.158 mm (.0625 in.) — through the tie post (above the AP3510's console connector) and secure the loop.

2 If required, install and attach a security cable to the AP3510 lock port.

3 Attach the Radio 1 and Radio 2 antennas to their correct connectors.

For information on the antennas available to the AP3510, see "AP3510 Antenna Options" on page 12.

4 Cable the AP3510 using an approved line cord and power supply.

For standard power adapter and line cord installations:

a Connect a RJ-45 Ethernet cable between the network data supply (host) and the AP3510 LAN port.

b Verify the power adapter is correctly rated according the country of operation.

c Connect the power supply line cord to the power adapter.

d Attach the power adapter cable into the power connector on the AP3510.

e Attach the power supply line cord to a power supply.

CAUTION

Do not actually connect to the power source until the cabling portion of the installation is complete.

NOTE

For other options to power up the AP3510, refer to "Powering the Access Point" on page 13.

5 Verify the behavior of the AP3510 LEDs. For more information, see "LED Indicators" on page 23.

6 Align the bottom of the ceiling T-bar with the back of the AP3510.

7 Orient the AP3510 chassis by its length and the length of the ceiling T-bar.

8 Rotate the AP3510 chassis 45 degrees clockwise, or about 10 o'clock.

CAUTION

Push the back of the AP3510 chassis on to the bottom of the ceiling T-bar.

CAUTION

Ensure the safety wire and cabling used in the T-Bar AP3510 installation is securely fastened to the building structure in order to provide a safe operating environment.

9 Rotate the AP3510 chassis 45 degrees counter-clockwise. The clips click as they fasten to the T-bar.
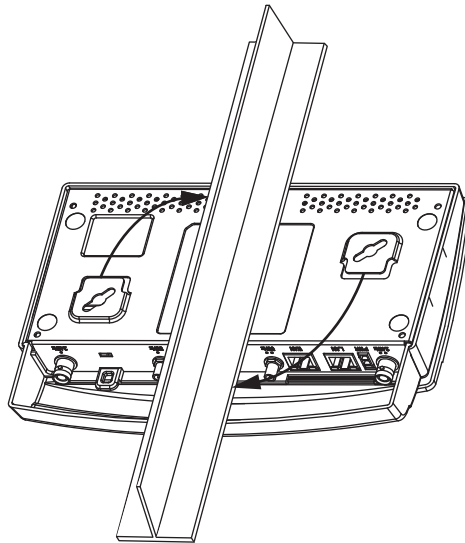
10 The AP3510 is ready to configure. For information on basic AP3510 device configuration, see "Basic AP3510 Configuration" on page 25.

Above the Ceiling (Plenum) Installations

An AP3510 above the ceiling installation requires placing the AP3510 above a suspended ceiling and installing the provided light pipe under the ceiling tile for viewing the rear panel status LEDs of the unit. An above the ceiling AP3510 installation enables installations compliant with drop ceilings, suspended ceilings and industry standard tiles from .625 to .75 inches thick.

NOTE

The AP3510 is Plenum rated to UL2043 and NEC1999 for above the ceiling installations.

CAUTION

Extreme Networks does not recommend mounting the AP3510 directly to any suspended ceiling tile with a thickness less than 12.7mm (0.5in.) or a suspended ceiling tile with an unsupported span greater than 660mm (26in.). Extreme Networks strongly recommends fitting the AP3510 with a safety wire suitable for supporting the weight of the device. The safety wire should be a standard ceiling suspension cable or equivalent steel wire between 1.59mm (.062in.) and 2.5mm (.10in.) in diameter.

The mounting hardware required to install the AP3510 above a ceiling consists of:

● Light pipe
● Badge for light pipe
● Decal for badge
● Safety wire (strongly recommended)
● Security cable (optional)

To install the AP3510 above a ceiling:

1 If possible, remove the adjacent ceiling tile from its frame and place it aside.
2 If required, install a safety wire, between 1.5mm (.06in.) and 2.5mm (.10in.) in diameter, in the ceiling space.
3 If required, install and attach a security cable to the AP3510's lock port.
4 Mark a point on the finished side of the tile where the light pipe is to be located.
5 Create a light pipe path hole in the target position on the ceiling tile.

6 Use a drill to make a hole in the tile the approximate size of the AP3510 LED light pipe.

CAUTION

Extreme Networks recommends care be taken not to damage the finished surface of the ceiling tile when creating the light pipe hole and installing the light pipe.

7 Remove the light pipe's rubber stopper (from the AP3510) before installing the light pipe.

8 Connect the light pipe to the bottom of the AP3510. Align the tabs and rotate approximately 90 degrees. Do not over tighten.
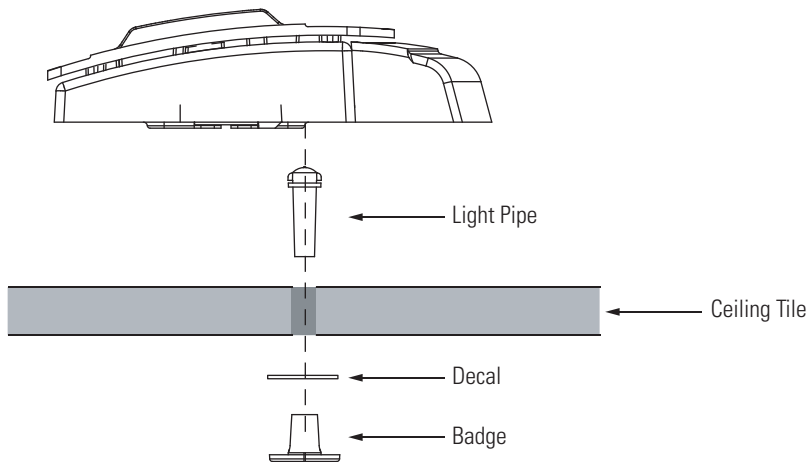
9 Snap the clips on the light pipe into the bottom of the AP3510.

10 Fit the light pipe into hole in the tile from its unfinished side.

11 Place the decal on the back of the badge and slide the badge onto the light pipe from the finished side of the tile.

12 Attach the Radio 1 and Radio 2 antennas to their correct connectors.

13 For information on the antennas available to the AP3510, see "AP3510 Antenna Options" on page 12.

CAUTION

Ensure you are placing the antennas on the correct connectors to ensure the successful operation of the AP3510.

14 Attach safety wire (if used) to the AP3510 safety wire tie point or security cable (if used) to the AP3510's lock port.

15 Align the ceiling tile into its former ceiling space.

16 Cable the AP3510 using an approved line cord and power supply.

For standard power adapter and line cord installations:

a Connect an RJ-45 Ethernet cable between the network data supply (host) and the AP3510 LAN port.

b Verify the power adapter is correctly rated according the country of operation.

c Connect the power supply line cord to the power adapter.

d Attach the power adapter cable into the power connector on the AP3510.

e Attach the power supply line cord to a power supply.

CAUTION

Do not actually connect to the power source until the cabling portion of the installation is complete.

NOTE

For other options to power up the AP3510, refer to "Powering the Access Point" on page 13.

17 Verify the behavior of the AP3510 LED light pipe. For more information, see "LED Indicators" on page 23.

18 Place the ceiling tile back in its frame and verify it is secure.

19 The AP3510 is ready to configure. For information on basic AP3510 device configuration, see "Basic AP3510 Configuration" on page 25.

LED Indicators

The AP3510 utilizes seven LED indicators. Five LEDs display within four LED slots on the front of the AP3510 (on top of the AP3510 housing) and two LEDs (for above the ceiling installations) are located on the back of the device (the side containing the LAN, WAN and antenna connectors).

Power and Error Conditions (Split LED)
Data Over Ethernet
802.11a Radio Activity
802.11b/g Radio Activity
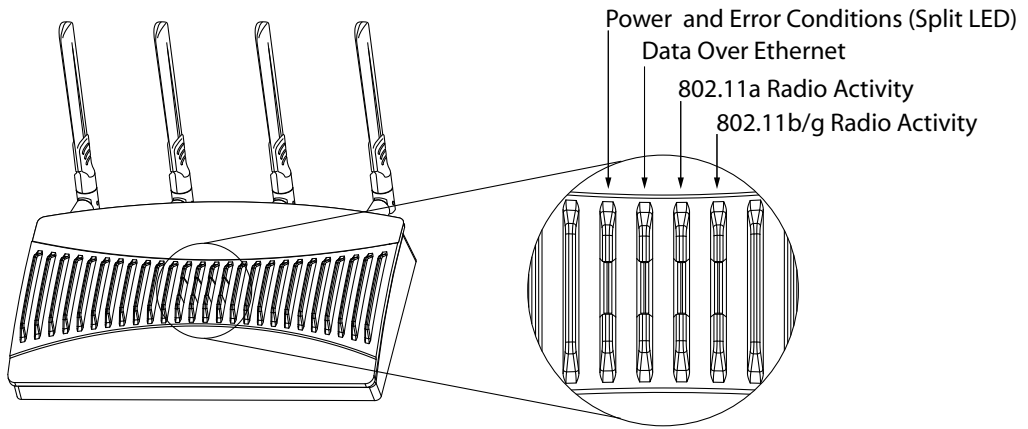
The five LEDs on the top housing of the AP3510 are clearly visible in table-top, wall and below ceiling installations. The five AP3510 top housing LEDs have the following display and functionality:

Boot and Power Status	Solid *white* indicates the AP3510 is adequately powered.
Error Conditions	Solid *red* indicates the AP3510 is experiencing a problem condition requiring immediate attention.
Ethernet Activity	Flashing *white* indicates data transfers and Ethernet activity.
802.11a Radio Activity	Flickering *amber* indicates beacons and data transfers over the AP3510 802.11a radio.
802.11b/g Radio Activity	Flickering *green* indicates beacons and data transfers over the AP3510 802.11b/g radio.

The LEDs on the rear of the AP3510 are viewed using a single (customer installed) extended light pipe, adjusted as required to suit above the ceiling installations. The LEDs displayed using the light pipe have the following color display and functionality:

Boot and Power Status   Solid *white* indicates the AP3510 is adequately powered.

Error Conditions   Solid *red* indicates the AP3510 is experiencing a problem condition requiring immediate attention.

Blinking *red* indicates the AP3510 Rogue AP Detection feature has located a rogue device.

4 **Basic AP3510 Configuration**

Configuring Initial Settings

An AP3510 needs settings defined to discover an available controller and register with it. It is through this controller registration that the AP3510 receives its configuration. If the AP's link to the controller fails, the AP continues to operate using the last valid configuration until its link is reestablished and a new configuration is pushed down from the controller.

Only WLAN, VLAN extension and radio configuration items are defined for the AP by its connected controller. None of the other AP3510 configuration items (RADIUS, DHCP, NAT, Firewall, and so forth) are configurable from the connected controller. See the *Altitude 35x0 Access Point Product Reference Guide* for further configuration of these parameters.

Ensure that the AP image and the controller image are compatible. Refer to release notes for the AP firmware compatibility matrix. Refer to product documentation for how to upgrade the AP firmware.

Establishing Basic AP Connectivity

This section defines the steps required to establish basic AP connectivity with an Extreme Networks Summit WM3x00 model controller.

Prerequisites for connecting an AP3510 to a controller include:

- Ensure that your controller has an appropriate AP capacity license.
- Ensure that the controller is up and running on the network and is reachable from the network on which the AP is installed.
- Refer to the controller installation guide and *Summit WM3000 Series Controller System Reference Guide* for details.

Auto Discovery using DHCP

Extended Global Options 189, 190, 191, 192 can be used or Embedded Option 43 - Vendor Specific options can be embedded in Option 43 using the AP3510's vendor class identifier:

Option	Data Type	Value
189	String	List of Controller IP addresses (separate by comma, semi-colon, or space delimited)
190	String	<FQDN (*Fully Qualified Domain Name)* of the Wireless Controller>
191	String	AP3510 Encryption IPSec Passphrase (Hashed) **
192	String	AP3510 controller discovery mode 1 = auto discovery enable 2 = auto discover enabled (using IPSec)

** The AP3510 uses an encryption key to hash passphrases and security keys.

To obtain the encrypted passphrase:

1 Configure a password in the AP.
2 Export the AP configuration file.
3 Read the hashed password from the file (You can open the file in notepad).
4 Copy the password to the DHCP server configuration option 191.

NOTE

Options 189 and 192 are mandatory to trigger adoption using DHCP options. Option 189 alone will not work.

The AP discovers the controller and joins it when you do the following:

1 Configure your DHCP server per the table above.
2 Connect the AP to the network and power it up.

Once an AP is adopted by the controller, it displays within the controller Access Point Radios screen (under the Network parent menu item) as an AP3510 within the AP Type column.

Where to Go From Here?

Once basic connectivity has been verified, the AP3510 can be fully configured to meet the needs of the network and the users it supports. For more details refer to the *AP-35x0 Access Point Product Reference Guide.* The guide is available on the Extreme Networks Web site, at http://www.extremenetworks.com/go/documentation.

⑤ Regulatory Compliance

All Extreme Networks devices are designed to be compliant with rules and regulations in locations of intended sale and are labeled as required by the authorizing agency. Any changes or modifications to Extreme Networks equipment, not expressly approved by Extreme Networks, could void the user's authority to operate the equipment.

The Radio Frequency Output Power will not exceed the maximum allowable limit for the country of operation when properly installed.

Antennas: Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could cause damage and may violate regulations.

Country Approvals

Regulatory markings and ID numbers have been applied to the device label signifying the radio (s) are approved for use in the country list located at http://www.extremenetworks.com/go/rfcertification.htm This list of countries is extensive and includes but is not limited to: United States, Canada, Australia, Japan, Europe and China.

Operation of the device without regulatory approval is illegal.

Health and Safety Recommendations

Warnings for the use of Wireless Devices

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

Potentially Hazardous Atmospheres

You are reminded of the need to observe restrictions on the use of radio devices in fuel depots, chemical plants etc. and areas where the air contains chemicals or particles (such as grain, dust, or metal powders).

Safety in Hospitals

Wireless devices transmit radio frequency energy and may affect medical electrical equipment. When installed adjacent to other equipment, it is advised to verify that the adjacent equipment is not adversely affected.

RF Exposure Guidelines

Safety Information

The device complies with Internationally recognized standards covering human exposure to electromagnetic fields from radio devices.

Reducing RF Exposure—Use Properly

Only operate the device in accordance with the instructions supplied.

Remote and Standalone Antenna Configurations

To comply with FCC RF exposure requirements, antennas that are mounted externally at remote locations or operating near users at stand-alone desktop of similar configurations must operate with a minimum separation distance of 20 cm from all persons.

Power Supply

The AP3510 can receive power in one of three ways:

1   Power over Ethernet (PoE) - If your network is already set up with PoE (802.3af compliant), attach the LAN Ethernet cable to the AP3510's LAN port.

2   Power over Ethernet: Adding PoE injector - If your network is not set up with PoE, you can provide power to the Ethernet cable with a PoE injector. The PoE injector must be 802.3af compliant. The PoE injector is not provided with the AP3510.

3   Power by AC adaptor - Extreme Networks 48V AC-DC power supply (Model No. 15728) can be used to power the AP3510. It is not included in the kit and is orderable separately as an accessory.

If option number 3 is chosen, use only the Extreme Networks 15728 Power Supply-Altitude 3510 adapter. It is pre-approved for use in multiple countries similar to AP3510. See http://www.extremenetworks.com/go/rfcertification/htm for approved country list. If the country is not listed Option number 2 should be used.

Option number 2 suggests a pre-approved power injector certified as a 802.3af compliant PoE injector is used certified for Safety & EMC within country of interest. It shall have a minimum output power rating of 48V DC, 250mA and have appropriate power input cord & plug.

NOTE

Use only an Extreme Networks approved power supply. Use of alternative power supply may invalidate any approval given to this device and may be dangerous if not properly tested and approved by a local agency.

Wireless Devices - Countries

Country Selection

The Extreme Networks AP3510 Access Point comes with a dual 802.11a+g radio and is manufactured in 3 different model numbers. The location of installation will determine the appropriate model number to choose. Due to unique regulatory requirements of United States and Israel only that country will appear in the country list upon set-up

for these models. The AP3510-ROW 11abg will list many countries where it is the
professional installer and end users responsibility to properly follow these instructions
to set-up AP.

Part Number	Model Number	Regulatory Domain
15720	AP3510-US	For use in the US only
15721	AP3510-ROW	For use in Europe & Rest of World (RoW)
15723	AP3510-IL	For use in Israel only

Although outdoor use may be allowed and may be restricted to certain frequencies
and/or may require a license for operation, the Altitude AP3510 is intended for indoor
use and must be installed in a proper indoor location. Use the installation utility
provided with the controller software to ensure proper set-up in accordance with all
European spectrum usage rules. Contact local Authority for procedure to follow and
regulatory information. For more details on legal combinations of frequencies, power
levels see http://www.extremenetworks.com/go/rfcertification.htm or contact Extreme Networks.

WARNING!

*Select only the country in which you are using the device. Any other selection will make the
operation of this device illegal. The professional installer and end user are responsible to properly
follow all instructions and warning when installing this device.*

United States

The Extreme Networks 15720 AP3510-US Access Point is dedicated for use in the
United States under rules of the FCC. Other countries may also use the model if they
agree with FCC operating frequencies and powers applicable to this model.

The use on UNII (Unlicensed National Information Infrastructure) Band 1 5150-5250
MHz is restricted to indoor use only. Any other use will make the operation of this
device illegal. The available channels for 802.11 b/g operation in the US are Channels 1
to 11. The range of channels is limited by firmware.

FCC

Radio Frequency Interference Statements

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

Radio Transmitters (Part 15)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Canada

Radio Frequency Interference Statement

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

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

Radio Transmitters

This device complies with RSS 210 of Industry & Science Canada. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that permitted for successful communication.

This device has been designed to operate with the antennas listed in the *Altitude 35xx/ 45xx AP Antenna Selection Guide* available from http://www.extremenetworks.com/go/documentation. Antennas not included in this list or having a gain greater than 13.9dBi (2.4GHz) and 13dBi (5GHz) are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

Label Marking: The Term "IC:" before the radio certification signifies that Industry Canada technical specifications were met.

European Economic Area (EEA)

CE Marking

The Altitude APs are designed for use in the European Union and other countries with similar regulatory restrictions where the end user or installer is allowed to configure the Altitude AP for operation by selecting a specific country from a list of countries. Upon connection to the controller, the software will prompt the user to select a country. After the country is selected, the controller will set up the Altitude AP with the proper frequencies and power outputs for that country as required by authorities.

Although outdoor use may be allowed and may be restricted to certain frequencies and/or may require a license for operation, the Altitude AP3510 is intended for indoor use and must be installed in a proper indoor location. Use the installation utility provided with the controller software to ensure proper set-up in accordance with all European spectrum usage rules. Contact local Authority for procedure to follow and regulatory information. For more details on legal combinations of frequencies, power levels see
http://www.extremenetworks.com/go/rfcertification.htm or contact Extreme Networks.

The use of 2.4GHz RLAN's, for use throughout the EEA includes the following countries and have the following restrictions:

Europe includes, Austria, Belgium, Bulgaria, Czech Republic, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

- Maximum radiated transmit power of 100 mW EIRP in the frequency range 2.400 - 2.4835 GHz (Channels 1-13).
- 5GHz operation is limited to 5.15 to 5.25 GHz (Channels 36 40, 44 & 48) indoor use only. The AP3510 does not support ETSI 301 893 V 1.3.1.
- Antenna use is restricted to those antennas listed in the *Altitude 35xx/45xx AP Antenna Selection Guide*.
- France outside usage, the equipment is restricted to 2.400-2.45 GHz frequency range.
- Italy & Greece require a user license for outside usage.

- Belgium requires notifying the spectrum agency if deploying > 300 meter wireless links in outdoor public areas and outdoor operation is only permitted using the 2.46 - 2.4835 GHz band: Channel 13.
- In France, outdoor operation is only permitted using the 2.4 - 2.454 GHz band: Channels 1 - 7.

Statement of Compliance

C€0560 ① Extreme Networks hereby, declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A Declaration of Conformity may be obtained from http://www.extremenetworks.com/go/rfcertification/htm.

NOTE

The Altitude AP3510 is in compliance with the European Directive 2002/95/EC on the restriction of the use of certain hazardous substances (RoHS) in electrical and electronic equipment and the European Directive 2002/96/EC (WEEE) on waste electrical and electronic equipment.

Declaration of Conformity in Languages of the European Community

English	Hereby, Extreme Networks, declares that this Radio LAN device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Finnish	Valmistaja Extreme Networks vakuuttaa täten että Radio LAN device tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Dutch	Hierbij verklaart Extreme Networks dat het toestel Radio LAN device in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
	Bij deze verklaart Extreme Networks dat deze Radio LAN device voldoet aan de essentiële eisen en aan de overige relevante bepalingen van Richtlijn 1999/5/EC.
French	Par la présente Extreme Networks déclare que l'appareil Radio LAN device est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
	Par la présente, Extreme Networks déclare que ce Radio LAN device est conforme aux exigences essentielles et aux autres dispositions de la directive 1999/5/CE qui lui sont applicables.
Swedish	Härmed intygar Extreme Networks att denna Radio LAN device står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.
Danish	Undertegnede Extreme Networks erklærer herved, at følgende udstyr Radio LAN device overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
German	Hiermit erklärt Extreme Networks die Übereinstimmung des "WLAN Wireless Controller bzw. Access Points" mit den grundlegenden Anforderungen und den anderen relevanten Festlegungen der Richtlinie 1999/5/EG.
Greek	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Extreme Networks ΔΗΛΩΝΕΙ ΟΤΙ Radio LAN device ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
Icelandic	Extreme Networks lysir her med yfir að thessi bunadur, Radio LAN device, uppfyllir allar grunnkrofur, sem gerdar eru i R&TTE tilskipun ESB nr 1999/5/EC.
Italian	Con la presente Extreme Networks dichiara che questo Radio LAN device è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Spanish	Por medio de la presente Extreme Networks declara que el Radio LAN device cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
Portuguese	Extreme Networks declara que este Radio LAN device está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
Malti	Hawnhekk, Extreme Networks, jiddikjara li dan Radio LAN device jikkonforma mal-htigijiet essenzjali u ma provvedimenti ohrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.

New Member States requirements of Declaration of Conformity

Estonian	Käesolevaga kinnitab Extreme Networks seadme Radio LAN device vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
Hungary	Alulírott, Extreme Networks nyilatkozom, hogy a Radio LAN device megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
Slovak	Extreme Networks týmto vyhlasuje, že Radio LAN device spåda základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
Czech	Extreme Networks tímto prohlašuje, že tento Radio LAN device je ve shodì se základními požadavky a dalšími pøíslušnými ustanoveními smìrnice 1999/5/ES.'
Slovenian	Šiuo Extreme Networks deklaruoja, kad šis Radio LAN device atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
Latvian	Ar ðo Extreme Networks deklarç, ka Radio LAN device atbilst Direktîvas 1999/5/EK bûtiskajâm prasîbâm ur citiem ar to saistîtajiem noteikumiem
Lithuanian	Extreme Networks deklaruoja, kad Radio LAN device atitinka 1999/5/EC Direktyvos esminius reikalavimus ir kitas nuostatas'.
Polish	Niniejszym, Extreme Networks, deklarujê, ¿e Radio LAN device spe³nia wymagania zasadnicze oraz stosowne postanowienia zawarte Dyrektywie 1999/5/EC.

RF safety distance

This access point must be installed to provide a separation distance of at least 25cm from all persons and must not be co-located or operating in conjunction with another antenna or transmitter.

Conditions of use in the European community

The Altitude APs with internal and external antennas are designed and intended to be used indoors. Some EU countries allow outdoor operation with limitations and restrictions, which are described in this section. It is the responsibility of the end user to ensure operation in accordance with these rules, frequencies, and transmitter power output. The Altitude AP must not be operated until properly configured for the customer's geographic location.

CAUTION

The professional user or installer is responsible to ensure that the Altitude AP is operated according to channel limitations, indoor / outdoor restrictions, license requirements, and within power level limits for the current country of operation in accordance with the spectrum usage rules for compliance with the European R&TTE directive 1999/5/EC.

CAUTION

The Altitude APs with internal and external antennas are designed to be operated only indoors within all countries of the European Community. Some countries require limited channels of operation. These restrictions are described in this section.

CAUTION

The Altitude AP is completely configured and managed by the Summit WM Controller connected to the network. Please follow the instructions in this user guide to properly configure the Altitude APs.

CAUTION

The Altitude APs require the end user or installer to ensure that they have a valid license prior to operating the Altitude AP. The license contains the region and the region exposes the country codes which allow for proper configuration in conformance with European National spectrum usage laws

CAUTION

There is a default group of settings that each Altitude AP receives when it connects to the controller. There is the ability to change these settings. The user or installer is responsible to ensure that each Altitude AP is properly configured.

CAUTION

The software within the controller will automatically limit the allowable channels and output power determined by the selected country code. Selecting the incorrect country of operation or identifying the proper antenna used, may result in illegal operation and may cause harmful interference to other systems.

CAUTION

This device does not employ a radar detection feature. This device is not compliant with ETSI 301 893 V 1.3.1as a result 5GHz operation is limited to only 5.15 to 5.25 GHz.

Israel

The Extreme Networks 15723 AP3510-IL Access Point is dedicated for use in Israel only. Other countries may also use the model if they agree with the operating frequencies and powers applicable to this model.

Israel Type Approval ID# MOC 63-63960

Other Countries

The Altitude APs have been certified for use in various other countries. When the Altitude AP is connected to the Extreme Networks Summit WM controller, the user is prompted to select a country. Once the correct country is selected, the controller automatically sets up the Altitude AP with the proper frequencies and power outputs for that country code.

NOTE

It is the responsibility of the end user to select the proper country code for the country the device will be operated within or run the risk violating local laws and regulations.

NOTE

Operation in the rest of the world may be dependant on securing local licenses, type approvals or certifications. See http://www.extremenetworks.com/go/rfcertification/htm for a complete list of certified countries.

Optional 3rd party external antennas

The external antenna Altitude APs can also be used with optional certified 3rd party antennas. However, in order to comply with the local laws and regulations, an approval may be required by the local regulatory authorities. See the *Altitude 35xx/45xx AP Antenna Selection Guide* available from http://www.extremenetworks.com/go/documentation for details.

Mexico (Cofetel) - Restrict Frequency Range to: 2.450 - 2.4835 GHz.
Sri Lanka - Restrict Frequency Range to: 2.400 – 2.430 GHz.
Brazil (ANATEL)

This equipment operates in secondary character, this is, does not have right to protection against harmful interference, even of stations of the same kind, and cannot cause interference to systems operating in primary character.

Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.

Taiwan (DGT)

NOTICE!

According to: Administrative Regulations on Low Power Radio Waves Radiated Devices

Article 12

Without permission granted by the DGT, any company, enterprise, or user is not allowed to change frequency, enhance transmitting power or alter original characteristic as well as performance to a approved low power radio-frequency devices.Article 14

The low power radio-frequency devices shall not influence aircraft security and interfere with legal communications; If found, the user shall cease operating

immediately until no interference is achieved.The said legal communications means radio communications are operated in compliance with the Telecommunications Act.The low power radio-frequency devices must be susceptible with the interference from legal communications or ISM radio wave radiated devices.

Japan (TELEC)

臺灣

低功率電波輻射性電機管理辦法

第十二條
經型式認證合格之低功率射頻電機, 非經許可, 公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條

低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時, 應立即停用, 並改善至無干擾時方得繼續使用。
前項合法通信, 指依電信規定作業之無線電通信。
低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

限制頻率範圍是: 2.400 - 2.4835 GHz。　　最大發射功率: 27dBm
　　　　　　　　　5.250 - 5.350 GHz。　　最大發射功率: 17dBm
　　　　　　　　　5.725 - 5.850 GHz。　　最大發射功率: 24dBm

　　　　　　　　2.4GHz: 11個通道
　　　　　　　　　5GHz:　8個通道

6 Waste Electrical and Electronic Equipment (WEEE)

English: For EU Customers: All products at the end of their life must be returned to Extreme Networks for recycling. For information on how to return product, please go to: http://www.extremenetworks.com/go/eu-weee.

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.extremenetworks.com/go/eu-weee .

Dansk: Til kunder i EU: Alle produkter skal returneres til Extreme Networks til recirkulering, når de er udtjent. Læs oplysningerne om returnering af produkter på: http://www.extremenetworks.com/go/eu-weee.

Deutsch: Für Kunden innerhalb der EU: Alle Produkte müssen am Ende ihrer Lebensdauer zum Recycling an Extreme Networks zurückgesandt werden. Informationen zur Rücksendung von Produkten finden Sie unter http://www.extremenetworks.com/go/eu-weee.

Eesti: EL klientidele: kõik tooted tuleb nende eluea lõppedes tagastada taaskasutamise eesmärgil Extreme Networks'ile. Lisainformatsiooni saamiseks toote tagastamise kohta külastage palun aadressi: http://www.extremenetworks.com/go/eu-weee.

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

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.extremenetworks.com/go/eu-weee .

Français : Clients de l'Union Européenne : Tous les produits en fin de cycle de vie doivent être retournés à Extreme Networks pour recyclage. Pour de plus amples informations sur le retour de produits, consultez : http://www.extremenetworks.com/go/eu-weee.

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

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.extremenetworks.com/go/eu-weee .

Lietuvių: ES vartotojams: visi gaminiai, pasibaigus jų eksploatacijos laikui, turi būti grąžinti utilizuoti į kompaniją „Symbol". Daugiau informacijos, kaip grąžinti gaminį, rasite: http://www.extremenetworks.com/go/eu-weee

Magyar: Az EU-ban vásárlóknak: Minden tönkrement terméket a Extreme Networks vállalathoz kell eljuttatni újrahasznosítás céljából. A termék visszajuttatásának módjával kapcsolatos tudnivalókért látogasson el a http://www.extremenetworks.com/go/eu-weee 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 tagħrif dwar kif għandek tirritorna l-prodott, jekk jogħġbok żur: http://www.extremenetworks.com/go/eu-weee

Nederlands: Voor klanten in de EU: alle producten dienen aan het einde van hun levensduur naar Extreme Networks te worden teruggezonden voor recycling. Raadpleeg http://www.extremenetworks.com/go/eu-weee 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.extremenetworks.com/go/eu-weee

Português: Para clientes da UE: todos os produtos no fim de vida devem ser devolvidos à Extreme Networks para reciclagem. Para obter informações sobre como devolver o produto, visite: http://www.extremenetworks.com/go/eu-weee.

Slovenski: Za kupce v EU: vsi izdelki se morajo po poteku življenjske dobe vrniti podjetju Extreme Networks za reciklažo. Za informacije o vraèilu izdelka obišèite: http://www.extremenetworks.com/go/eu-weee.

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.extremenetworks.com/go/eu-weee

Suomi: Asiakkaat Euroopan unionin alueella: Kaikki tuotteet on palautettava kierrätettäväksi Extreme Networks-yhtiöön, kun tuotetta ei enää käytetä. Lisätietoja tuotteen palauttamisesta on osoitteessa http://www.extremenetworks.com/go/eu-weee.

7 Customer Support

NOTE

Services can be purchased from Extreme Networks or through one of its channel partners. If you are an end-user who has purchased service through an Extreme Networks channel partner, please contact your partner first for support.

Extreme Networks Technical Assistance Centers (TAC) provide 24x7x365 worldwide coverage. These centers are the focal point of contact for post-sales technical and network-related questions or issues. TAC will create a Service Request (SR) number and manage all aspects of the SR until it is resolved. For a complete guide to customer support, see the *Technical Assistance Center User Guide* at:

http://www.extremenetworks.com/go/TACUserGuide

The Extreme Networks eSupport website provides the latest information on Extreme Networks products, including the latest Release Notes, troubleshooting, downloadable updates or patches as appropriate, and other useful information and resources. Directions for contacting the Extreme Networks Technical Assistance Centers are also available from the eSupport website at:

https://esupport.extremenetworks.com

Registration

If you have not already registered with Extreme Networks using a registration card supplied with your product, you can register on the Extreme Networks website at: http://www.extremenetworks.com/go/productregistration.

Documentation

Check for the latest versions of documentation on the Extreme Networks documentation website at:

http://www.extremenetworks.com/go/documentation