Copyright © 2020 Extreme Networks, Inc. All Rights Reserved.

Legal Notices

Extreme Networks, Inc., on behalf of or through its wholly-owned subsidiary, Enterasys Networks, Inc., reserves the right to make changes in specifications and other information contained in this document and its website without prior notice. The reader should in all cases consult representatives of Extreme Networks to determine whether any such changes have been made.

The hardware, firmware, software or any specifications described or referred to in this document are subject to change without notice.

Trademarks

Extreme Networks and the Extreme Networks logo are trademarks or registered trademarks of Extreme Networks, Inc. in the United States and/or other countries.

All other names (including any product names) mentioned in this document are the property of their respective owners and may be trademarks or registered trademarks of their respective companies/owners.

For additional information on Extreme Networks trademarks, please see: www.extremenetworks.com/company/legal/trademarks/

Contact

If you require assistance, contact Extreme Networks using one of the following methods.

- **Global Technical Assistance Center (GTAC) for Immediate Support**
  - **Phone:** 1-800-998-2408 (toll-free in U.S. and Canada) or 1-603-952-5000. For the Extreme Networks support phone number in your country, visit: www.extremenetworks.com/support/contact
  - **Email:** support@extremenetworks.com. To expedite your message, enter the product name or model number in the subject line.

- **GTAC Knowledge** – Get on-demand and tested resolutions from the GTAC Knowledgebase, or create a help case if you need more guidance.

- **The Hub** – A forum for Extreme customers to connect with one another, get questions answered, share ideas and feedback, and get problems solved. This
community is monitored by Extreme Networks employees, but is not intended to replace specific guidance from GTAC.

- **Support Portal** – Manage cases, downloads, service contracts, product licensing, and training and certifications.
# Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table of Contents</td>
<td>4</td>
</tr>
<tr>
<td>About this Guide</td>
<td>6</td>
</tr>
<tr>
<td><strong>Engine Overview and Setup</strong></td>
<td>7</td>
</tr>
<tr>
<td>Kit Contents</td>
<td>7</td>
</tr>
<tr>
<td>Specifications</td>
<td>7</td>
</tr>
<tr>
<td>Front Panel Features</td>
<td>9</td>
</tr>
<tr>
<td>Hard Drive LED Indicator Patterns</td>
<td>10</td>
</tr>
<tr>
<td>Back Panel Features</td>
<td>10</td>
</tr>
<tr>
<td>Power Supply Status Indicator Patterns</td>
<td>11</td>
</tr>
<tr>
<td>Removing and Installing the Front Bezel</td>
<td>12</td>
</tr>
<tr>
<td>Removing the Front Bezel</td>
<td>12</td>
</tr>
<tr>
<td>Installing the Front Bezel</td>
<td>12</td>
</tr>
<tr>
<td>Installing the Engine into a Rack</td>
<td>13</td>
</tr>
<tr>
<td>Torque Values</td>
<td>13</td>
</tr>
<tr>
<td><strong>Configuration</strong></td>
<td>15</td>
</tr>
<tr>
<td>Pre-Configuration Tasks</td>
<td>15</td>
</tr>
<tr>
<td>Configuring the Engine</td>
<td>15</td>
</tr>
<tr>
<td>Changing Engine Settings</td>
<td>21</td>
</tr>
<tr>
<td>Using Extreme Management Center</td>
<td>21</td>
</tr>
<tr>
<td>Changing DNS, NTP, SSH, and SNMP Settings</td>
<td>21</td>
</tr>
<tr>
<td>Changing Hostname, Gateway, and Static Routes</td>
<td>22</td>
</tr>
<tr>
<td>Using the Engine CLI</td>
<td>22</td>
</tr>
<tr>
<td>Changing the Extreme Management Center Server IP Address</td>
<td>23</td>
</tr>
<tr>
<td>Changing Web Service Credentials</td>
<td>23</td>
</tr>
</tbody>
</table>
Changing the Engine IP Address and Basic Network Settings ...............23
Changing Date and Time Settings ..............................................23
Upgrading Engine Software ......................................................24
Reinstalling Engine Software ....................................................25

Product Regulatory and Compliance Information ................................27
Federal Communications Commission (FCC) Notice ..........................27
Industry Canada, Class A .........................................................28
CE Notice .............................................................................28
VCCI Notice ...........................................................................28
BSMI EMC Statement – Taiwan ..................................................28
Hazardous Substances ................................................................29
European Waste Electrical and Electronic Equipment (WEEE) Notice ....29
Declaration of Conformity .............................................................30
About this Guide

This document describes the installation and initial configuration of the Extreme Networks® Extreme Access Control IA-A-305 hardware engine.

This document is intended for experienced network administrators who are responsible for implementing and maintaining communications networks.
Engine Overview and Setup

This chapter lists the components shipped with the IA-A-305 engine, describes the front and back panels, and provides information on engine specifications.

For complete regulatory compliance and safety information, refer to the document Intel® Server Products Product Safety and Regulatory Compliance, available at the following links:

http://download.intel.com/support/motherboards/server/sb/g23122003_safetyregulatory.pdf
http://www.extremenetworks.com/support/documentation/

Kit Contents

The engine ships with the following components:

- Extreme Networks URL card
- Front bezel label
- A rack mounting kit
- Two rack handles and appropriate screws
- AC power cord bracket and cable clamp kit
- One USB flash drive

Specifications

The following tables list the physical and environmental specifications for the engine.

**IA-A-305 Physical Specifications**

<table>
<thead>
<tr>
<th>Processor</th>
<th>IA-A-305 - Intel® Xeon® E5-2620 v4 processor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor type</td>
<td></td>
</tr>
<tr>
<td>Processor speed</td>
<td>2.1 GHz</td>
</tr>
<tr>
<td>CPU Cores</td>
<td>8</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td></td>
</tr>
<tr>
<td>Architecture</td>
<td>2400 MHz Dual Ranked Registered (RDIMM) ECC DDR4</td>
</tr>
<tr>
<td>Memory module capacities</td>
<td>4 GB DIMMs</td>
</tr>
</tbody>
</table>
## Specifications

<table>
<thead>
<tr>
<th>Minimum RAM (included)</th>
<th>32 GB (eight 4 GB DIMMs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum RAM</td>
<td>48 GB (twenty-four 2 GB RDIMMs)</td>
</tr>
<tr>
<td><strong>Drives</strong></td>
<td></td>
</tr>
<tr>
<td>Hard drives</td>
<td>One 240 GB SSD hard drive</td>
</tr>
<tr>
<td><strong>Connectors</strong></td>
<td></td>
</tr>
<tr>
<td>Back</td>
<td></td>
</tr>
<tr>
<td>NIC</td>
<td>Four RJ-45</td>
</tr>
<tr>
<td>Serial</td>
<td>9-pin, DTE, 16550-compatible</td>
</tr>
<tr>
<td>USB</td>
<td>Three 4-pin, USB 2.0-compliant</td>
</tr>
<tr>
<td>Video</td>
<td>15-pin VGA</td>
</tr>
<tr>
<td>Networking</td>
<td>Two 1 GB Ethernet</td>
</tr>
<tr>
<td>Front</td>
<td></td>
</tr>
<tr>
<td>USB</td>
<td>Two 4-pin, USB 2.0-compliant</td>
</tr>
<tr>
<td>Video</td>
<td>15-pin VGA</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td></td>
</tr>
<tr>
<td>AC power supply (per power supply)</td>
<td>Redundant power supply</td>
</tr>
<tr>
<td>Wattage</td>
<td>750 watts</td>
</tr>
</tbody>
</table>
| Input voltage         | • 90 - 132 V at 47/63 Hz 8.2 A  
                        | • 180 - 264 V at 47/63 Hz 4.4 A |
| Output voltage        | • 62.0A at 12 V          
                        | • 2.1A at 12 VSB          |
| **Physical**          |                          |
| Height                | 4.45 cm (1.72 in.)       |
| Width                 | 43.0 cm (16.93 in.)      |
| Depth                 | 70.99 cm (27.95 in.)     |
| Weight (maximum configuration) | 13.15 kg (29 lb.)         |

### IA-A-305 Environmental Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature</td>
<td>+10°C (+50°F) to +35°C (+95°F) with the maximum rate of change not to exceed 10°C (+50°F) per hour</td>
</tr>
</tbody>
</table>
## Front Panel Features

This section shows the front panel and describes the major features.

### IA-A-305 Front Panel Features

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>System label pull-out</td>
</tr>
<tr>
<td>B</td>
<td>Video Connector</td>
</tr>
<tr>
<td>C</td>
<td>USB 3.0 Ports</td>
</tr>
<tr>
<td>D</td>
<td>Front control panel (see figure below)</td>
</tr>
<tr>
<td>E</td>
<td>Hard disk drive bays</td>
</tr>
</tbody>
</table>

### Parameter Limits

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage temperature</td>
<td>-40°C (-40°F) to +70°C (+158°F)</td>
</tr>
<tr>
<td>Storage humidity</td>
<td>50% to 90%, non-condensing at 28°C (82°F)</td>
</tr>
<tr>
<td>Vibration, unpackaged</td>
<td>5 Hz to 500 Hz, 2.20 g RMS random</td>
</tr>
<tr>
<td>Shock, operating</td>
<td>Half sine, 2 g-force peak, 11 milliseconds</td>
</tr>
<tr>
<td>Shock, unpackaged</td>
<td>Trapezoidal, 25 g, velocity change 136 inches/second (40 lb to &lt; 80 lb)</td>
</tr>
<tr>
<td>Shock, packaged</td>
<td>Non-palletized free fall in height 24 inches (40 lb to &lt; 80 lb)</td>
</tr>
<tr>
<td>ESD</td>
<td>±12 KV except I/O port ±8 KV per Intel® Environmental test specification</td>
</tr>
<tr>
<td>Estimated thermal dissipation</td>
<td>1550 BTU/Hr</td>
</tr>
</tbody>
</table>
Front Control Panel

<table>
<thead>
<tr>
<th></th>
<th>Function Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>System ID button w/integrated LED</td>
</tr>
<tr>
<td>B</td>
<td>NMI button (recessed, tool required for use)</td>
</tr>
<tr>
<td>C</td>
<td>Mgmt port activity LED</td>
</tr>
<tr>
<td>D</td>
<td>Not used</td>
</tr>
<tr>
<td>E</td>
<td>System cold reset button</td>
</tr>
<tr>
<td>F</td>
<td>System status LED</td>
</tr>
<tr>
<td>G</td>
<td>Power button w/integrated LED</td>
</tr>
<tr>
<td>H</td>
<td>Hard drive activity LED</td>
</tr>
<tr>
<td>I</td>
<td>Not used</td>
</tr>
<tr>
<td>J</td>
<td>Not used</td>
</tr>
</tbody>
</table>

**Hard Drive LED Indicator Patterns**

The hard drive has two LED indicators visible from the front of the system: one is a green LED for disk activity, and the other is amber and indicates hard drive status. The following tables describe the LED states.

**Hard Drive Activity LED Indicator Patterns**

<table>
<thead>
<tr>
<th>Hard Drive Condition</th>
<th>Activity LED Patterns</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power on and drive spinning up or spinning down</td>
<td>Off</td>
</tr>
<tr>
<td>Power on with drive activity</td>
<td>Blinking green</td>
</tr>
</tbody>
</table>

**Hard Drive Status LED Indicator Patterns**

<table>
<thead>
<tr>
<th>Hard Drive Condition</th>
<th>Status LED Patterns</th>
</tr>
</thead>
<tbody>
<tr>
<td>No access or no fault</td>
<td>Off</td>
</tr>
<tr>
<td>Hard drive fault has occurred</td>
<td>Solid amber</td>
</tr>
</tbody>
</table>

**Back Panel Features**

This section shows the back panel and describes the major features.
IA-A-305 Back Panel

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Power supply module #1</td>
<td>B</td>
</tr>
<tr>
<td>B</td>
<td>Power supply module #2</td>
<td>C</td>
</tr>
<tr>
<td>C</td>
<td>eth0</td>
<td>D</td>
</tr>
<tr>
<td>D</td>
<td>eth1</td>
<td>E</td>
</tr>
<tr>
<td>E</td>
<td>Video connector</td>
<td>F</td>
</tr>
<tr>
<td>F</td>
<td>Serial port</td>
<td>G</td>
</tr>
<tr>
<td>G</td>
<td>USB 2.0 ports</td>
<td>H</td>
</tr>
<tr>
<td>H</td>
<td>Mgmt port, out of band</td>
<td>I</td>
</tr>
<tr>
<td>I</td>
<td>I/O Module Bay</td>
<td>J</td>
</tr>
<tr>
<td>J</td>
<td>Riser cards, Not used</td>
<td></td>
</tr>
</tbody>
</table>

The following table describes the LEDs for the RJ45 management port.

**RJ45 Port LEDs (Management Port)**

<table>
<thead>
<tr>
<th>LED Type</th>
<th>LED Pattern</th>
<th>Status Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network speed (right)</td>
<td>Off</td>
<td>10 Mbps</td>
</tr>
<tr>
<td></td>
<td>Amber</td>
<td>100 Mbps</td>
</tr>
<tr>
<td></td>
<td>Green</td>
<td>1000 Mbps</td>
</tr>
<tr>
<td>Link activity (left)</td>
<td>Off</td>
<td>No link</td>
</tr>
<tr>
<td></td>
<td>Solid green</td>
<td>Active link</td>
</tr>
<tr>
<td></td>
<td>Blinking green</td>
<td>Data traffic activity</td>
</tr>
</tbody>
</table>

**Power Supply Status Indicator Patterns**

The engine has two power supplies, supplying hot-pluggable power redundancy. The system distributes the power load across both power supplies to maximize efficiency.

Each power supply has a single bi-color LED to indicate power supply status, as described in the following table.
## Power Supply Status LED Indicator Patterns

<table>
<thead>
<tr>
<th>LED Pattern</th>
<th>Power Supply Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>Output on and OK</td>
</tr>
<tr>
<td>Off</td>
<td>No AC power to all power supplies</td>
</tr>
<tr>
<td>1Hz blinking green</td>
<td>AC present / Only 12VSB on (PS off) or PS in cold redundant state</td>
</tr>
<tr>
<td>Amber</td>
<td>AC power cord unplugged or AC power lost. With a 2nd PS in parallel still with AC input power</td>
</tr>
<tr>
<td>1Hz blinking amber</td>
<td>Power supply warning events where PS continues to operate – high temp, high power, high current, slow fan</td>
</tr>
<tr>
<td>Amber</td>
<td>Power supply critical event causing a shutdown, failure, OCP, OVP, fan fail</td>
</tr>
<tr>
<td>2Hz blinking green</td>
<td>Power supply firmware updating</td>
</tr>
</tbody>
</table>

## Removing and Installing the Front Bezel

The engine comes with an optional front panel bezel that you can attach to the front of the chassis by snapping the bezel onto the chassis handles. A key lock allows you to lock the bezel in place so that front panel controls cannot be used. You can still monitor system status indicators with the bezel in place.

### Removing the Front Bezel

To remove the front bezel:

1. Unlock the bezel if it is locked.
2. Remove the left end of the front bezel from rack handle.
3. Rotate the front bezel counterclockwise to release the latches on the right end from the rack handle.

### Installing the Front Bezel

**Note:** Before installing the bezel, you must install the rack handles. See [Installing the Engine into a Rack](#).

To install the front bezel:

1. Lock the right end of the front bezel to the rack handle.
2. Rotate the front bezel clockwise till the left end clicks into place.
3. Lock the bezel, if needed.
Installing the Engine into a Rack

A rack mounting kit and installation guide are included with the engine. The rack mounting kit allows you to install the engine into a four-post rack cabinet. Refer to the installation guide for complete installation instructions.

If you are table mounting the engine, ensure at least 6 cm of clearance on all sides of the engine for proper ventilation.

If you are installing the engine in a rack:

1. Install the rack handles by aligning a rack handle with the two holes on each side of the engine and attaching each handle to the engine with two screws as shown below.

   ![Installing the Rack Handles](image)

2. Read the installation guide included with the rack mounting kit.
3. Install the rails and mount the controller in the rack as instructed.

Torque Values

The following table describes the recommended torque values to use when installing the engine using standard threaded fastener machine screws and bolts.
## Recommended Torque Values by Screw Size

<table>
<thead>
<tr>
<th>Screw Size</th>
<th>Torque in Pounds</th>
<th>Bit Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>Metric</td>
<td>-%5</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>1.42</td>
</tr>
<tr>
<td>2 - 56</td>
<td>1.5</td>
<td>2.85</td>
</tr>
<tr>
<td>4 - 40</td>
<td>2.5</td>
<td>4.75</td>
</tr>
<tr>
<td>6 - 32</td>
<td>3.5</td>
<td>8.55</td>
</tr>
<tr>
<td>8 - 32</td>
<td>4.5</td>
<td>17.10</td>
</tr>
<tr>
<td>10 - 32</td>
<td>5</td>
<td>30.40</td>
</tr>
<tr>
<td>1/4 - 20</td>
<td>6.5</td>
<td>63.65</td>
</tr>
</tbody>
</table>
Configuration

Once you have installed the engine into a rack, you need to connect a monitor and a USB keyboard, connect the power cord and network cable, and power the engine on.

After the engine boots and the engine installation is complete, you must go through the initial configuration process described in this chapter.

This chapter also includes information on how to change your engine settings following your initial configuration.

Pre-Configuration Tasks

Ensure that you have the following information prior to executing any of the procedures in this chapter:

- Engine hostname, IP address, and netmask
- Default gateway IP address
- Extreme Management Center server IP address
- Name server IP address and domain name
- Network Time Protocol (NTP) server IP address

Configuring the Engine

After the initial engine installation is complete, use the following steps to configure the engine to run the Extreme Access Control engine software:

1. Login as root with no password, and press [Enter].
   The following screen appears.

   ==============================================================
   =====
   Extreme Networks - Access Control Engine - Welcome to the Access
   Control Engine 7.1.2.11 Setup
   ==============================================================
   =====

   Please enter the information as it is requested to continue with the
   configuration. Typically a default value is displayed in brackets.
   Pressing the [enter] key without entering a new value will use the
Configuring the Engine

bracketed value and proceed to the next item. If a default value cannot be provided, the prompt will indicate that the item is either (Required) or (Optional). The [enter] key may be pressed without entering data for (Optional) items. A value must be entered for (Required) items. At the end of the setup process, the existing settings will be displayed and opportunity will be provided to correct any errors.

Press [enter] to begin setup or CTRL-C to exit:

2. Press [Enter] to begin the setup.
   The Root Password Configuration screen appears:
   Root Password Configuration

   There is currently no password set in the system administrator account (root). It is recommended that you set one that is active the first time the machine is rebooted.

   Would you like to set a root password (y/n) [y]?

3. Press [Enter] to set a new root password. Enter the new password as prompted.
   Enter new UNIX password:
   Retype new UNIX password:
   Password updated successfully.

4. In the Access Control Engine Configuration screen, enter the requested information for each line and press [Enter].
   Access Control Engine Configuration
   
   Enter the hostname for the engine [nacappliance]:
   Please enter the IP address for nacappliance (Required): 10.15.76.100
   Enter the IP netmask [255.255.255.0]:
   Enter the engine address [10.50.76.1]:

16 of 31
Enter the IP address of the name server (Optional): 1.2.3.4
Enter the IP address of an alternate name server (Optional): 1.2.3.4
Enter the domain name for nacappliance (Required): extremenetworks.com
Enter the IP address of the Server (Required): 1.3.4.5

5. In the SNMP Configuration screen, enter the requested information for each line and press [Enter].

SNMP Configuration

The following information will be used to configure SNMP management of this device. The SNMP information entered here must be used to contact this device with remote management applications such as Console.

Please enter the SNMP user name [snmpuser]:
Please enter the SNMP authentication credential [snmpauthcred]:
Please enter the SNMP privacy credential [snmpprivcred]:

6. In the Configure Date and Time Settings screen, select whether you want to use an external Network Time Protocol (NTP) server. Enter y to use NTP, and enter your NTP server IP address(es). Enter n to configure the date and time manually and proceed to step 8.

Configure Date And Time Settings

The engine date and time can be set manually or using an external Network Time Protocol (NTP) server. It is strongly recommended that NTP is used to configure the date and time to ensure accuracy of time values for SNMP communications and logged events. Up to 5 server IP addresses may be entered if NTP is used.

Do you want to use NTP (y/n) [y]? y
Please enter a NTP Server IP Address (Required): 144.131.10.120
Would you like to add another server (y/n) [n]? y
Please enter a NTP Server IP Address (Required): 144.131.10.121
Would you like to add another server (y/n) [n]? n

7. In the NTP validate selection screen, enter 0 to accept the current settings and proceed to the Set Time Zone screen at step 10.

```
NTP Servers

These are the currently specified NTP servers. Enter 0 or any key other than a valid selection to complete NTP configuration and continue.

If you need to make a change, enter the appropriate number from the choices listed below.
144.131.10.120
144.131.10.121
0. Accept the current settings
```

```
1. Restart NTP server selection
2. Set date and time manually
```

```
Enter selection [0]: 0
```

8. If you answered no to using an NTP server to set date and time, set the date and time in the Set Date and Time screen.

```
Set Date And Time

The current system date and time is: Thu Apr 24 09:34:08 2008
Please enter the values for date and time as directed where input is expected in the following format:
MM - 2 digit month of year
DD - 2 digit day of month
YYYY - 4 digit year
hh - 2 digit hour of day using a 24 hour clock
mm - 2 digit minute of hour
```
ss - 2 digit seconds

Please enter the month [06]:
Please enter the day of the month [24]:
Please enter the year [2013]:
Please enter the hour of day [09]:
Please enter the minutes [34]:
Please enter the seconds [34]:

9. In the Use UTC screen, select whether you want the system clock to be set to use UTC.

Use UTC

The system clock can be set to use UTC. Specifying no for using UTC, sets the hardware clock using local time.

Do you want to use UTC (y/n) [n]?

10. In the Set Time Zone screen, select the appropriate time zone and press [Enter].

Set Time Zone

You will now be asked to enter the time zone information for this system. Available time zones are stored in files in the /usr/share/zoneinfo directory. Please select from one of the following example time zones:
1. US Eastern
2. US Central
3. US Mountain
4. US Pacific
5. Other - Shows a graphical list
Enter selection [1]:

11. In the Current Engine Configuration screen, review the current settings and press [Enter] to continue.

Access Control Engine Configuration:
Host Info: nacappliance 10.50.76.100/255.255.255.0
Gateway/Name Server/Domain:
10.50.76.1/1.2.3.4/extremenetworks.com
Alternate Name Server: 1.2.3.4
SNMP User/Auth/Privacy: snmpuser/snmpauthcred/snmpprivcred
Netsight Server IP: 1.3.4.5

Press [enter] to continue:

12. In the Engine Network Configuration Complete screen, you can accept the current configuration or modify the settings.

=========================================================================================
======
Access Control Engine Network Configuration Complete
=========================================================================================
======
Configuration of the Access Control Engine network settings is now complete.
Enter 0 or any key other than a valid selection to continue. If you need to make a change, enter the appropriate number from the choices listed below.
=========================================================================================
======
0. Accept the current settings
1. Edit Access Control Engine settings
2. Edit SNMP settings
3. Edit date and time
4. Modify all settings
=========================================================================================
======

Enter selection [0]:

When you see the following screen, configuration is complete.
=========================================================================================
==
Changing Engine Settings

Extreme Networks - Access Control Engine - Setup Complete

================================================================

Setup of the Access Control is now complete. Details of the engine setup process are located in the log files in the /var/log/install directory.

================================================================

You are now ready to use Extreme Management Center to manage your engine.

If you have reinstalled your Extreme Access Control engine software, use Extreme Management Center to enforce the engine. Enforcing writes your Extreme Management Center configuration information to the engine.

**Changing Engine Settings**

This section provides instruction for changing your engine settings following your initial engine configuration, should the need arise. Depending on the settings you want to change, you can use either Extreme Management Center or the engine CLI to make the changes.

**Using Extreme Management Center**

Use Extreme Management Center to easily change engine settings including DNS, NTP, SSH, and SNMP configuration. You can also use Extreme Management Center to change the engine hostname and default gateway, as well as configure static routes for advanced routing configuration.

**Changing DNS, NTP, SSH, and SNMP Settings**

Use the Engine Settings window in Extreme Management Center to change the following:

- DNS Configuration – Search domains and DNS servers
- NTP Configuration – Time zone and NTP servers
- SSH Configuration – Port number and RADIUS authentication
- SNMP Configuration – SNMP credentials for the engine

To access the Engine Settings window:
Changing Engine Settings

1. In Extreme Management Center, select Control > Access Control. The Access Control tab opens.
2. In the left-panel tree, expand the Engines folder and then expand the All Engines folder.
3. Right-click the desired engine and select Engine Settings. The Engine Settings window opens.
4. Select the Network Settings tab to change your engine configurations. For more information, see the "Engine Settings Window" topic in the Management Center online Help.

Changing Hostname, Gateway, and Static Routes

In Extreme Management Center, use the Interface Summary section of the Details tab for an engine to change the engine hostname, default gateway, and static routes.

1. In Extreme Management Center, select Control > Access Control. The Access Control tab opens.
2. In the left-panel tree, expand the Engines folder and then expand the All Engines folder.
3. Select the engine you are configuring.
4. In the right-panel, select the Details tab.
5. Click Edit in the Interface Summary section of the tab to open the Interfaces window, where you can change the engine Host Name and Gateway. For more information, see the "Interface Configuration Window" topic in the online Help.
6. Click Static Routes in the Interface Summary section to open the Static Route Configuration window, where you can add or edit the static routes used for advanced routing configuration. For more information, see the "Static Route Configuration Window" topic in the Extreme Management Center online Help.

Using the Engine CLI

Use the engine CLI to change the engine IP address, Extreme Management Center server IP address, and web service credentials. Use Extreme Management Center to make these changes, if possible. You can also use the CLI to change basic network settings such as engine hostname, SNMP configuration, and date and time settings, if necessary (see Using Extreme Management Center).
Changing the Extreme Management Center Server IP Address

To change the IP address of the Extreme Management Center server, enter the following command at the engine CLI:

```
/opt/nac/configMgmtIP <IP address>
```

Then, start using the new Extreme Management Center server by typing:
```
nacctl restart
```

Changing Web Service Credentials

The web service credentials provide access to the Access Control Engine Administration web page and the web services interface between the Extreme Management Center server and the Access Control engine. Engines ship with a preconfigured default password.

If you change the web service credentials in Extreme Management Center (in the Engine Settings), the new credentials automatically propagate to the new engine when you enforce the engine.

In the event that you need to manually change the web service credentials on the engine, enter the following command at the engine CLI:

```
/opt/nac/configWebCredentials <username> <password>
```

Then, restart the engine by entering:
```
service nacservices restart
```

Changing the Engine IP Address and Basic Network Settings

To change the engine IP address, as well as basic network settings such as hostname and SNMP configuration (including system contact, system location, trap server, SNMP trap community string, SNMP user, SNMP authentication, and SNMP privacy credentials), enter the following command at the engine CLI:

```
/usr/postinstall/nacconfig
```

This starts the network configuration script and allows you to make the desired changes.

Changing Date and Time Settings

To enable or disable NTP for engine date and time, or to manually set the date and time on the engine, enter the following command at the engine CLI:

```
/usr/postinstall/dateconfig
```
This starts the date and time configuration script and allows you to change the settings.

**Upgrading Engine Software**

Upgrades to the Extreme Access Control engine software are available on the Extreme Portal: [https://extremeportal.force.com/](https://extremeportal.force.com/). After entering your email address and password, you will be on the Support page. Click on the **Products** tab and select **ExtremeControl**. Click the **ExtremeControl** link in the right panel and select a version of ExtremeControl. Scroll down to see the Access Control engine images.

Instructions for performing the software upgrade are also available on the Extreme Management Center web page. Click on the **Documentation** tab and follow this path to the document: **Manuals & Release Notes > select a version > Extreme Access Control**.
Reinstalling Engine Software

Use the procedure in this chapter to reinstall the engine software, in the event a software reinstall becomes necessary. Be aware that this procedure reformats the hard drive and reinstall the engine software, the operating system, and all related Linux packages.

You need to connect a monitor and a USB keyboard to the engine prior to performing these steps.

1. Download the Extreme Access Control Engine Image 64bit (ZIP) file to your system.

To download an engine image:

2. After entering your email address and password, you are on the Support page.
3. Click the Products tab and select ExtremeControl.
4. Click ExtremeControl in the right-panel.
5. Select a version.
6. Download the image and extract the file to a directory on your system.

2. Insert the USB flash drive that came with the engine into the USB port on your system and note the drive letter it is assigned.

3. Open a command prompt window and cd to the directory where you extracted the file.

4. Type `make_disk.bat <drive letter>`:. Since the reinstall procedure reformats the drive, be sure you have specified the correct drive letter. Press [Enter].

The files are copied to the USB flash drive. When the copy is complete the message displays:

```
Successfully installed into <drive letter>: Press any key to continue.
```

5. Remove the USB flash drive from your system.

6. Insert the USB flash drive into a USB port on the engine (see ).

7. Boot the engine from the USB drive using either of these two methods.

   **Method 1:**
   1. Press the power button, and then press F6 to go to the Boot Menu.
   2. Select the USB drive on the menu.
3. The engine starts booting from the USB flash drive.
4. When the boot is complete, the Engine Installation screen appears and the installation begins.

**Method 2:**
1. Press the power button, and then press F2 to go to the BIOS setup.
2. Use the arrow keys to navigate to the Boot Options menu.
3. Ensure that the USB flash drive is listed as Boot Option #1 at the top.
4. Save changes and exit.
5. The engine starts booting from the USB flash drive.
6. When the boot is complete, the Engine Installation screen appears and the installation begins.
8. After the installation completes, reboot the engine and remove the USB flash drive.
9. Proceed to [Configuration](#), and follow the instructions for configuring the engine.
Product Regulatory and Compliance Information

For complete regulatory compliance and safety information, refer to the document Intel® Server Products Product Safety and Regulatory Compliance, available at the following links:

http://download.intel.com/support/motherboards/server/sb/g23122003_safetyregulatory.pdf
https://www.extremenetworks.com/support/documentation/

Federal Communications Commission (FCC) Notice

This product 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 a commercial environment. This product uses, generates, and can radiate radio frequency energy and if not installed and used in accordance with the manufacturer’s instruction manual, may cause harmful interference to radio communications. Operation of this product in a residential area is likely to cause harmful interference, in which case you will be required to correct the interference at your own expense.

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.

Any changes or modifications not expressly approved by the grantee of this device could void the user’s authority to operate the equipment. The customer is responsible for ensuring compliance of the modified product.

Intel Corporation
5200 N.E. Elam Young Parkway
Hillsboro, OR 97124 6497
Phone: 1 800 628 6686
Industry Canada, Class A

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

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the interference-causing equipment standard entitled “Digital Apparatus,” ICES-003 of the Canadian Department of Communications.

Cet appareil numérique respecte les limites bruits radioélectriques applicables aux appareils numériques de Classe A prescrites dans la norme sur le matériel brouilleur: “Appareils Numériques”, NMB-003 édictée par le Ministre Canadian des Communications.

CE Notice

This product has been determined to be in compliance with 2006/95/EC (Low Voltage Directive), 2004/108/EC (EMC Directive).

VCCI Notice

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 disturbance may arise. When such trouble occurs, the user may be required to take corrective actions.

BSMI EMC Statement — Taiwan

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.
Hazardous Substances

This product complies with the requirements of Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

European Waste Electrical and Electronic Equipment (WEEE) Notice

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

1. The symbol above indicates that separate collection of electrical and electronic equipment is required.

2. When this product has reached the end of its serviceable life, it cannot be disposed of as unsorted municipal waste. It must be collected and treated separately.

3. It has been determined by the European Parliament that there are potential negative effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment.

4. It is the users’ responsibility to utilize the available collection system to ensure WEEE is properly treated.

For information about the available collection system, please contact Extreme Customer Support at +353 61 705500 (Ireland).
### Declaration of Conformity

**Supplement to Product Instructions**

<table>
<thead>
<tr>
<th>部件名称 (Parts)</th>
<th>有害有害物质或元素 (Hazardous Substance)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>铅 (Pb)</td>
</tr>
<tr>
<td>金属部件 (Metal Parts)</td>
<td>×</td>
</tr>
<tr>
<td>电路模块 (Circuit Modules)</td>
<td>×</td>
</tr>
<tr>
<td>电缆及电缆组件 (Cables &amp; Cable Assemblies)</td>
<td>×</td>
</tr>
<tr>
<td>塑料和聚合物部件 (Plastic and Polymeric parts)</td>
<td>〇</td>
</tr>
<tr>
<td>电路开关 (Circuit Breakers)</td>
<td>〇</td>
</tr>
</tbody>
</table>

〇: 表示该有害有害物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006 标准规定的限量要求以下。Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the SJ/T 11363-2006 standard.

×: 表示该有害有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363-2006 标准规定的限量要求。Indicates that the concentration of the hazardous substance of at least one of all homogeneous materials in the parts is above the relevant threshold of the SJ/T 11363-2006 standard.

对销售之日的所售产品, 本表显示。

此表显示所有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列部件。

This table shows where these substances may be found in the supply chain of Extreme’s electronic information products, as of the date of sale of the enclosed product. Note that some of the component types listed above may or may not be a part of the enclosed product.

### Declaration of Conformity

**Application of Council Directive(s):**

<table>
<thead>
<tr>
<th>Directive(s)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2004/108/EC</td>
<td></td>
</tr>
<tr>
<td>2006/95/EC</td>
<td></td>
</tr>
<tr>
<td>2011/65/EU</td>
<td></td>
</tr>
<tr>
<td>Manufacturer’s Name:</td>
<td>Extreme Networks, Inc.</td>
</tr>
<tr>
<td>---------------------</td>
<td>------------------------</td>
</tr>
</tbody>
</table>
| Manufacturer’s Address: | 145 Rio Robles  
San Jose, CA 95134  
USA |
| European Representative Name: | Extreme Networks Limited |
| European Representative Address: | Nexus House, Newbury Business Park  
London Road, Newbury  
Berkshire RG14 2PZ, England |
2011/65/EU |
| Equipment Type/Environment: | Information Technology Equipment, for use in a  
Commercial or Light Industrial Environment. |