

# Extreme Management Center<sup>®</sup> Suite Installation

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This document provides instructions for installing and launching Extreme Management Center, and for launching Extreme Management Center applications on remote Extreme Management Center clients. It also includes information for those upgrading from an earlier version of Extreme Management Center.

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**IMPORTANT:** Backup the Extreme Management Center database prior to performing the upgrade and save it to a safe location. Use the **Administration** > [Backup/Restore tab](#).

To upgrade to version 8.0, you must be on version 7.1 or later.

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## General Information

Before you install Extreme Management Center, read the *Extreme Management Center Release Notes*. The most recent version of these release notes can be found on the Extreme Management Center (NMS) Documentation web page: <http://extranet.extremenetworks.com/downloads>. After entering your email address and password, follow this path to the document: Software & Security > NetSight (NMS) > Documentation > Manuals & Release Notes > NetSight 8.1 > NetSight Suite.

Additionally, if installing Extreme Management Center on an EXOS system on which version 16.1 or later is installed, you need to initialize the system in enhanced security mode. Additional information is available in the [EXOS User Guide](#).

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**NOTE:** The terms engine, gateway, and appliance are used interchangeably throughout Extreme Management Center documentation.

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## Operating System Requirements

These are the operating system requirements for both the Extreme Management Center server and remote Extreme Management Center client machines.

**IMPORTANT:** Beginning in Extreme Management Center version 7.0, only 64-bit operating systems are officially supported on the Extreme Management Center server and remote Extreme Management Center client machines. Upgrade any Extreme Management Center server or client machine currently running a 32-bit OS to a 64-bit OS.

	Operating System
Windows (qualified on the English version of the operating systems)	Windows Server® 2012 and 2012 R2 Windows Server® 2016 Windows® 7
Linux	Red Hat Enterprise Linux WS and ES v6 and v7 Ubuntu 14
Mac OS X® (remote Extreme Management Center client only)	El Capitan Sierra
VMware® (Extreme Management Center Virtual Engine)	VMware ESXi™ 6.0 server VMware ESXi™ 6.5 server vSphere (client only)™
Hyper-V (Extreme Management Center Virtual Engine)	Hyper-V Server 2012 R2 Hyper-V Server 2016

## Extreme Management Center Server and Client Hardware Requirements

These are the hardware requirements for the Extreme Management Center server and Extreme Management Center client machines:

### Extreme Management Center Server

	Small	Medium	Enterprise	Large Enterprise
Total CPUs	1	2	2	2
Total CPU Cores	8	16	16	16
Memory	16 GB	32 GB	64 GB	64 GB
Disk Size	240 GB	480 GB	960 GB	1.92 TB
IOPS	200	200	10,000	10,000

### Extreme Management Center Client

	Requirements
CPU Speed	3.0 GHz Dual Core Processor
Memory	4 GB
Disk Size	300 MB (User's home directory requires 50 MB for file storage)
Java Runtime Environment (JRE) (Oracle Java only)	Version 8
Browser* (Enable JavaScript and Cookies)	Microsoft Edge (version 41.16.199.10000.0 in compatibility mode) Internet Explorer (version 11 in compatibility mode) Mozilla Firefox (version 34 or later*) Google Chrome (version 33.0 or later)

## Extreme Access Control Engine Version Requirements

For complete information on Extreme Access Control engine version requirements, see the [Upgrade Information](#) section of these Installation instructions.

## Application Analytics Engine Installation Requirements

After installing a version 8.0.1 .ISO image on a physical Application Analytics engine, open the `/etc/sysctl.conf` file and locate the `vm.nr_hugepages` row. Remove any number following a decimal point to change the value to a whole number.

For example, if the `sysctl.conf` file displays `vm.nr_hugepages = 2667.67`, change the value to `vm.nr_hugepages = 2667`.

Save the file and enter `sysctl -p` in the command line to update the engine with the new configuration.

Running the engine without editing this value results in performance issues.

## Screen Resolution

For optimum display of Extreme Management Center windows and tables, the recommended minimum screen resolution setting for Extreme Management Center clients is 1024 by 768 pixels. For optimum display of graphs and tables, the recommended minimum screen resolution setting is 1280 by 1024 pixels.

## Evaluation License

If you request a Extreme Management Center evaluation license, you receive an Entitlement ID. This Entitlement ID allows you to generate a product evaluation license key. Refer to the instructions included with the Entitlement ID to generate the license key. Use the key when you install the product.

To install Extreme Management Center using an evaluation license, refer to the Extreme Management Center Installation instructions for Windows or Linux contained in this guide.

To upgrade from an evaluation license to a purchased license, see the instruction in the [Upgrading an Evaluation License](#) section.

## Extreme Management Center Services

During the Extreme Management Center installation, you can enable the Extreme Management Center Services, allowing it to run in the background on the Extreme Management Center server. The service starts automatically by default, and if you shut down and restart the machine, the service is restarted automatically.

You can also restart the services manually or disable a service so it does not start automatically when you restart the server. For information on how to do these procedures, see Extreme Management Center Services under the *Suite-Wide Tools User Guide*.

The services offered depend on whether your platform is Windows or Linux.

- **SNMPTrap Service** (Windows and Linux) - Enables SNMP trap messages to be received and logged when problems or irregularities are detected on network devices. Only one trap service may be running at a time on a server. If you are also running a network management system on the server, you may wish to use the network management trap service.  
*Windows Users:* Windows users should check for and stop any other SNMP trap service before enabling the Extreme Management Center version (see [Stop Other Services](#)).
- **TFTP** (Windows and Linux) - Enables you to upload and download configuration files, and download firmware to devices. Only one TFTP service may be running at a time on a machine.

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**NOTE:** The Extreme Management Center TFTP Service does not support IPv6.

*Windows Users:* Windows users should check for and stop any other TFTP service before enabling the Extreme Management Center version (see [Stop Other Services](#)).

*Linux Users:* Typically, the TFTP service that exists in Linux is disabled; however, if it is enabled, you may wish to disable it and enable the Extreme Management Center version of TFTP which provides additional features for Extreme Management Center. If you elect to enable the Extreme Management Center version on the Linux platform, you must first disable the Linux TFTP service and perform some configuration as follows:

1. Using a text editor, edit the file `/etc/xinetd.d/tftp`
2. Set `disable = yes`  
Sample file:  

```
service tftp
```

```
{ flags = REUSE
  socket_type = stream
  wait = no
  user = root
  server = /usr/sbin/in.tftpd
  disable = yes
}
```

3. Then run: `/etc/rc3.d/S56xinetd restart`

- **BOOTP** (Windows only) - Enables the Extreme Management Center server to also be a BOOTP server. This allows the server to supply devices with firmware images (or other basic identity information) in the event the device's current firmware image becomes corrupt. Only one BOOTP service can be running at a time on a machine.
- **Syslog** (Windows only) - Extreme Management Center Console maintains a record of syslog messages in the **Syslog** tab of the **Event View**.

## Upgrade Information

Extreme Management Center 8.1 supports upgrades from Extreme Management Center version 7.1.2 or later. If you are upgrading from a version prior to 7.1.2, you must perform an intermediate upgrade. For example, if you are upgrading from Extreme Management Center 7.0, you must first upgrade to Extreme Management Center 7.1.2 (or later), and then upgrade to Extreme Management Center 8.1.

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**IMPORTANT:** When performing an upgrade, be sure to backup the Extreme Management Center database prior to performing the upgrade, and save it to a safe location. Use the **Administration > Backup/Restore tab** to perform the backup. Backup functionality is enhanced in version 8.0 of Extreme Management Center and may function differently depending on the method used by your version of Extreme Management Center.

When upgrading the Extreme Management Center server, Application Analytics engine, or Extreme Access Control engine to version 8.1, ensure the DNS server IP address is correctly configured. Additionally, upgrading requires an internet connection. If no internet connection is available, see [Upgrading a Hardware Engine](#).

When upgrading the Application Analytics engines to version 8.0.2 after upgrading from version 6.1 to 7.1.2, the upgrade does not complete successfully. To successfully upgrade the engine to version 8.0.2 after upgrading from version 6.1 to 7.1.2, enter `dpkg --purge postgresql*` in the command line, then upgrade the Application Analytics engine to version 8.0.2.

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During the installation you have the option to backup additional user files by selecting a checkbox on the Previous Installation Detected screen. This option lets you backup user files such as Inventory Manager archive files not automatically backed up during the install because the backup could take several minutes.

## Important Upgrade Considerations

- If your network is using Application Analytics engines, you must first perform the Extreme Management Center upgrade to version 8.1 and then upgrade the Application Analytics engines.
- If you are running Data Center Manager (DCM), a Mobile Device Management (MDM) integration, or other OneFabric Connect or Fusion integration with Extreme Management Center:
  - The OneFabric connect module is disabled on upgrade, and requires a new version in order to operate with Extreme Management Center 8.1. You must install an updated module that supports Extreme Management Center 8.1. Contact your account team for information on obtaining this update.
  - You must install a Extreme Management Center Advanced (NMS-ADV) license with 8.1 when you upgrade. Contact your account team for information on obtaining this license.
- If you are accessing Web Services directly or through OneFabric Connect you need to install a Extreme Management Center Advanced (NMS-ADV) license. Contact your account team for information on obtaining this license.
- When upgrading a 64-bit Extreme Management Center server or when upgrading from a 32-bit to a 64-bit Extreme Management Center server, if the -Xmx setting is set below 1536m, it is increased to 1536m.
- Older NetSight licensing keys (starting with INCREMENT) are no longer supported as of NetSight 5.0 and later. If you have one of these keys, please contact Extreme Networks Support for license upgrade information.
- The 4.xx version of the NAC Request Tool is not compatible with the 8.1 Extreme Management Center server. If you are using the NAC Request Tool you need to upgrade the version of NAC Request Tool to version 8.1.

## Upgrading an Evaluation License

To upgrade from an evaluation license to a purchased copy, contact your Extreme Networks Representative to purchase the software and receive an Entitlement ID. You do not need to reinstall the software to perform the conversion.

Prior to installing Extreme Management Center, you should redeem your Entitlement ID for a product license key. Refer to the instructions included with the Entitlement sent to you.

If your Evaluation copy has not expired:

1. Open the **Administration > Diagnostics > Server > Server Licenses**.
2. In the tab, click **Add**.
3. Enter the license text that you received when you generated the product license key.
4. Click **OK**. The license file is updated with the new license text.

If you have let your Evaluation Copy expire, when you launch Extreme Management Center a window opens where you can enter the license text.

## Upgrading to Extreme Management Center NAC Manager 8.1

### Important Captive Portal Changes

In NetSight 6.0, the NAC captive portal was enhanced to provide a more modern look and feel. If you have used the custom style sheet, you need to review pages, as there are likely be changes required to allow the custom styles to display correctly with the new page layout. After upgrading, Extreme Access Control administrators should log on to the screen preview page ([https://<Extreme Access ControlengineIP>/screen\\_preview](https://<Extreme Access ControlengineIP>/screen_preview)) of the NAC captive portal to verify that the portal still looks acceptable for display to end users. If your portal configuration is limited to setting colors and images, there should be no problem with the new portal look and feel, although you may want to set some of the new color options.

## General Upgrade Information

When upgrading to Extreme Management Center NAC Manager 8.1, you are not required to upgrade your Extreme Access Control engine version to 8.1. However, both NAC Manager and the Extreme Access Control engine must be at version 8.1 in order to take advantage of the new Extreme Access Control 8.1 features. Extreme Management Center NAC Manager 8.1 supports managing Extreme Access Control engine versions 6.3 and 6.2.

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**NOTE:** NAC 8.1 is not supported on the 2S Series and 7S Series NAC Controllers. You cannot upgrade NAC Controllers to version 8.1, but you can use NAC Manager 8.1 to manage controllers running version 4.3.xx.

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You can download the latest Extreme Access Control engine version at the Network Management Suite (NMS) Download web page <http://extranet.extremenetworks.com/downloads/Pages/NMS.aspx>. Be sure to read through the Upgrading to NAC 8.1 document (available on the Extreme Management Center (NetSight) Documentation web page > Manuals & Release Notes > NetSight 8.1 > Network Access Control [NAC]) for important information.

In addition, if your NAC solution utilizes a Nessus assessment server, you should also upgrade your assessment agent adapter to version 8.1 if you upgrade to NAC 8.1.

## Agent Version for NAC Agent-Based Assessment

If you are using onboard agent-based assessment, be aware that the agent version is upgraded during the Extreme Access Control engine software upgrade. If you would like end-systems to update their agent to the new version, you must configure your assessment test set to test for the new agent version. Refer to the Upgrade Information section in the [Extreme Management Center Release Notes](#) for the agent version included in the Extreme Access Control engine software.

## Upgrading NAC Request Tool

The 4.xx version of the NAC Request Tool is not compatible with the 8.1 Extreme Management Center server. If you are using the NAC Request Tool, you need to upgrade your version of the NAC Request Tool to version 8.1.



## Upgrading to Extreme Management Center 8.1

- Beginning in 5.1, all Extreme Management Center maps intended to utilize the advanced map features of wireless coverage and client location triangulation should be created with a Base Map type of Floor Plan. Extreme Management Center maps created in NetSight version 4.4 or 5.0 that include both APs and walls are automatically converted to the Floor Plan Base Map type when the upgrade is performed. This allows Floor Plan map features to be available for those maps.
- Beginning in 5.1, managed wireless controllers (8.32 or later) are automatically synchronized to match Extreme Management Center map floor plan data. If the floor plan data defined in Extreme Management Center maps is not consistent with data on the controller, the controller is updated accordingly.

## Upgrading to Policy Manager 8.1

- Policy Manager 8.1 only supports ExtremeWireless Controller version 8.01.03 and higher. If you upgrade to Extreme Management Center 8.1 prior to upgrading your controllers, then Policy Manager does not allow you to open a domain where the controllers already exist or add them to a domain. A dialog is displayed indicating your controllers do not meet minimum version requirements and that they must be upgraded before they can be in a domain.
- Policy Manager 5.0 changed how it handles rule containment VLANs and Role VLAN Egress VLANs. This may cause Verify to fail following an upgrade to 8.1. If this happens, enforce the domain configuration to update the static VLAN table.
- Following an upgrade to Wireless Controller version 8.31 and higher, a Policy Manager enforce fails if it includes changes to the default access control or any rules that are set to contain. To allow Policy Manager to modify the default access control or set rules to contain, you must disable the **"Allow" action in policy rules contains to the VLAN assigned by the role** checkbox accessed from the Wireless Controller's web interface on the Roles > **Policy Rules** tab. This will allow the enforce operation to succeed.

## Upgrading to Wireless Manager 8.1

Following a Wireless Manager upgrade, you should clear the Java Cache before starting the Extreme Management Center client.

## Pre-Installation Checklist

Please review the following checklist prior to performing an Extreme Management Center software installation or upgrade.

- **Backup database.** If performing an upgrade, be sure to backup the Extreme Management Center database prior to performing the upgrade. Use the Server Information window to perform the backup (Tools > Server Information > **Database** tab).
- **Disable antivirus software.** Disable any antivirus software running on the Extreme Management Center server prior to beginning the installation. Be sure to re-enable the antivirus software following the install. If you have installed or upgraded Extreme Management Center on a Windows platform system, follow the instructions in [Configure Antivirus Software](#) before you re-enable the antivirus software.
- **Generate your Extreme Management Center product license key.** When you purchased Extreme Management Center, you received a Licensed Product Entitlement ID for the license that you purchased. This Entitlement ID allows you to generate a product license key. Refer to the instructions included with the Entitlement ID to generate the license key. The key will be used when you install the product.

## Extreme Management Center Installation - Windows

Use the following instructions to install Extreme Management Center on a Windows platform system where you have administrative rights.

### Stop Other Services

If you are using the Extreme Management Center version of SNMPtrap and/or TFTP service, you cannot be running another version of that service on your system. If you are running one of these non-Extreme Management Center services on your system, you must shut it down before installing Extreme Management Center, as follows:

1. Open the **Services** window on your system (**Control Panel > Administrative Tools > Services**).
2. Scroll down to find the service in the list.
3. Right click on the service and select **Stop** from the popup menu.
4. Right click on the service again and select **Properties** from the popup menu.
5. In the Properties window, set the **Startup Type** for the service to **Manual**.
6. Repeat for any other services, if necessary.
7. Close the **Services** windows and **Control Panel**.
8. Open the Task Manager and check to be sure that the process is not running.
9. Close the Task Manager.

## Install and Launch Extreme Management Center

1. Download the Extreme Management Center (formerly NetSight) software from the Network Management Suite (NMS) Download web page <http://extranet.extremenetworks.com/downloads/Pages/NMS.aspx>. If you are installing from a CD, insert the CD into your system's CD drive.
2. Navigate to the NetSight\_Suite.exe file and double-click it.
3. The Extreme Management Center Installer leads you through a series of windows that asks for all the information required in order to install Extreme Management Center. You need the following information for the Installer Program:
  - **License Text** – Enter the license text for the Extreme Management Center license you purchased. You received the license text when you [generated your Extreme Management Center product license key](#). If you choose not to enter the license text during the installation, you are asked to enter it the first time you launch an individual Extreme Management Center application.
  - **Service Configuration** – Enable and start the Extreme Management Center Services. (For more information on the services offered on the Windows platform, see [Extreme Management Center Services](#).)
  - **Destination Directory** – This is the path to your Extreme Management Center Installation Directory. In the Destination Directory window, click **Choose** to navigate to the directory, or type the path in manually.

When you have finished with this series of windows, Extreme Management Center is

installed according to your specifications.

4. When the installation is complete, the database and server are started automatically. You must wait until the Extreme Management Center server has started all its various server components before you can connect to the server and launch the Extreme Management Center applications. On the installation screen, you see an hourglass icon while the server starts its components. When the server is ready for connections, the installation screen displays a green check.
5. On the installation screen, click on the **Show Launch Page** link to open the Extreme Management Center Launch Page. (You can also use the desktop shortcut to open the Extreme Management Center Launch Page.)
6. The Extreme Management Center Launch Page opens. At the top of the web page are tabs for the following functions:
  - **Home** – Launch your Extreme Management Center applications by clicking on the names or icons of any of the listed applications.
  - **Getting Started** – In order to launch your Extreme Management Center applications, you must have Java Runtime Environment (JRE) 6 (also referred to as 1.6) or higher installed on your system. This page tells you if you have met this requirement and provides instructions for installing the Java Runtime Environment (JRE), if required.
  - **Administration** – Provides access to specific server administration functions such as client and server diagnostics, server utilities, the server log, and Extreme Access Control server diagnostics. To access the server diagnostics and utilities, you will need to login with your username and password. (If the Extreme Management Center server is a Windows platform system, in the Username field you must enter a domain name and a username using the following format: <domain name>\<username>).
7. Verify that you have met the JRE requirement by accessing the **Getting Started** tab, and install the JRE according to the instructions on the **Install Java** tab, if required.
8. Click on the **Home** tab and launch the desired Extreme Management Center application by clicking the name or icon.
9. A login window appears. Extreme Management Center requires a user login as a way to restrict access to the Extreme Management Center server, perform audit trails, and assign user capabilities according to the Authorization Group the user belongs. It is important to note that when you log in, you are authenticating to the operating system of the Extreme Management Center server system to which you are connecting.

- a. Select the Extreme Management Center server to which you wish to connect.
- b. Enter your domain name\username.
- c. Enter your password and click **OK**.

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**NOTE:** The initial user to log in must be the user that performed the Extreme Management Center installation. This is because the Extreme Management Center server has a single pre-defined user that is the user who performed the Extreme Management Center installation. On Windows, this is the domain\username of the person logged in to the Windows system when the installation was performed. Once the initial user has logged in, additional users can be defined.

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10. The application main window opens.

### Configure Antivirus Software

Using antivirus software such as McAfee® on Extreme Management Center servers installed on a Windows platform system requires special consideration. If the virus scanning software is used on directories containing MySQL data and temporary tables, problems can result in both the performance of MySQL and the virus-scanning software.

After installing or upgrading Extreme Management Center, we recommend you add the MySQL data and tmp directories (<install directory>\mysql\data\tmp) to the virus scanning exclusion list. Refer to your antivirus software documentation for instructions.

### Extreme Management Center Installation - Linux

Use the following instructions to install Extreme Management Center on a Linux platform system. Please read through the following items before beginning the installation.

- The user performing the installation must be the root user. During the installation process you can specify another user to launch and run the server, if desired.
- If you are installing Extreme Management Center on a Linux system that doesn't support a GUI, see [Performing a Silent Install](#) for information on installing Extreme Management Center without using its GUI Installation wizard.

- Prior to beginning installation, verify that your `/etc/hosts` file has the local host name specified. It should have an entry that looks like:  

```
127.0.0.1 localhost
```
- You may encounter a Java exception during the install when becoming the root user with the `su -` command. Be sure that your system's root environment has a proper `DISPLAY` variable setting. The Installation program reports a Java exception (`InvocationTargetException`) if the `DISPLAY` variable is undefined. If this occurs:

Before using the `su -` command, set the system display variable to accept a remote display with the command:

```
/usr/openwin/bin/xhost +test 111 111
```

After using the `su -` command, set the display variable in the environment where the `su -` was done.

For C shell: `setenv DISPLAY :0.0`

For Korn shell: `export DISPLAY=:0.0`

## Preparing for CD Installation

Perform the following steps if you will be installing the Extreme Management Center software from a CD. The following procedures assume that the CD drive from which you are installing is physically attached to the system where Extreme Management Center is being installed.

1. Insert the Extreme Management Center (NetSight) CD into the CD drive.
2. Use an xterm where you are logged in as root. (Be sure that your system's root environment has a proper `DISPLAY` variable setting. For more information see the above [note](#).)
3. Using the `cd` command, `cd` to the `/mnt/cdrom` directory.
4. Using the `ls` command, check to see if the CD drive is mounted. If no files are listed, issue the following commands:

```
mount /mnt/cdrom
```

## Install and Launch Extreme Management Center

1. Download the Extreme Management Center (NetSight) software from the Network Management Suite (NMS) Download web page  
<http://extranet.extremenetworks.com/downloads/Pages/NMS.aspx>.
2. Use an xterm where you are logged in as root. (Be sure that your system's root environment has a proper DISPLAY variable setting. For more information see the above [note](#).)
3. Start the Installer.
  - **If you have downloaded the software**, cd to the directory where you downloaded the installer and start the Installer with the following command:  

```
./NetSight_Suite_<version>_install.bin
```
  - **If you are installing from a CD**, start the installer with the command:  

```
/mnt/cdrom/netsight.bin
```
4. The Extreme Management Center Installer leads you through a series of windows that asks for all the information required in order to install Extreme Management Center. You need the following information for the Installer Program:
  - **License Text** – Enter the license text for the Extreme Management Center license you purchased. You received the license text when you [generated your Extreme Management Center product license key](#). If you choose not to enter the license text during the installation, you will be asked to enter it the first time you launch an individual Extreme Management Center application.
  - **Service Configuration** – There are two Service Configuration screens.
    - In the first screen, you can specify a user other than root to own the Extreme Management Center server and its supporting files, if desired. This user becomes the admin user for the server. Select **Use existing user** if you already have a user defined on the machine and enter the user name. Select **Create local netsight user** if you want to create a new "netsight" user (netsight is the user name) and enter the password for this new user. Leave the **Use existing user** option set to **root** if you do not want to specify another user.
    - In the second screen, enable and start the Extreme Management Center Services. (For more information on the services offered on the Linux platform, see [Extreme Management Center Services](#).)

- **Destination Directory** – This is the path to your Extreme Management Center Installation Directory. In the Destination Directory window, click **Choose** to navigate to the directory, or type the path in manually.

When you have finished with this series of windows, Extreme Management Center is installed according to your specifications.

5. When the installation is complete, the database and server are started automatically. You must wait until the Extreme Management Center server has started all its various server components before you can connect to the server and launch the Extreme Management Center applications. On the installation screen, you see an hourglass icon while the server starts its components. When the server is ready for connections, the installation screen displays a green check.
6. On the installation screen, click on the **Show Launch Page** link to open the Extreme Management Center Launch Page.
7. The Extreme Management Center Launch Page opens. At the top of the web page you will see tabs for the following functions:
  - **Home** – Launch your Extreme Management Center applications by clicking on the names or icons of any of the listed applications.
  - **Getting Started** – In order to launch your Extreme Management Center applications, you must have Java Runtime Environment (JRE) 6 (also referred to as 1.6) or higher installed on your system. This page tells you if you have met this requirement and provides instructions for installing the Java Runtime Environment (JRE), if required.
  - **Administration** – Provides access to specific server administration functions such as client and server diagnostics, and server utilities.
8. Verify that you have met the JRE requirement by accessing the **Getting Started** tab, and install the JRE according to the instructions on the **Install Java** tab, if required.
9. Click on the **Home** tab and launch the desired Extreme Management Center application by clicking the name or icon.
10. A login window appears. Extreme Management Center requires a user login as a way to restrict access to the Extreme Management Center server, perform audit trails, and assign user capabilities according to the Authorization Group the user belongs.
  - a. Select the Extreme Management Center server to which you wish to connect.
  - b. Enter your username.



- c. Enter your password and click **OK**.

**NOTES:** The initial user to log in must be the user that performed the Extreme Management Center installation, which is either root or the user defined in the [Service Configuration screen](#) during the installation. This is because the Extreme Management Center server has a single pre-defined user. Once the initial user has logged in, additional users can be defined.

The password for the root user does not expire. To configure the password to age so it expires after 60 days, see [How to Configure Your Password to Expire](#).

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11. The application main window opens.

## Performing a Silent Install

If you are installing Extreme Management Center on a Linux system that doesn't support a GUI, you must add the cli flag (`--cli`) to the install command, in order to allow the Extreme Management Center installer to prompt for any required input.

Start the installation with the following command:

```
./NetSight_Suite_<version>_install.bin --cli
```

If you are installing as a user other than root, you must use the `--user` command to specify the different user. The user must already be configured on the machine before you install. For example:

```
./NetSight_Suite_<version>_install.bin --cli --user <username>
```

To perform the install and create a new local "netsight" user (where netsight is the user name), use the `--password` command to set the password for the new "netsight" user. For example:

```
./NetSight_Suite_<version>_install.bin --cli --password  
<password>
```

## Restoring a Database from a Windows Server to a Linux Server

This section describes several Extreme Management Center configuration changes required if you are moving your Extreme Management Center installation from a Windows platform system to a Linux platform system. The

steps are performed after restoring your database to the new server. (For information on restoring a database, see the Server Information help in the *Extreme Management Center Suite-Wide Tools User Guide*.)

When restoring a saved database to a new Extreme Management Center server installation, any memory or database configuration changes on the original server require a manual change on the new server in order to replicate the configuration of the original Extreme Management Center server.

- Changes to the default -Xmx memory settings in the <install directory>\services\nsserver.cfg file need to be duplicated on the new server when the database is restored. To change the memory setting to match the previous server, stop the Extreme Management Center server and edit the nsserver.cfg file.
- The MySQL my.ini file also need to be manually updated to match any changes made on the original server. For instructions on modifying the my.ini file, see the Change the MySQL my.ini File section in the NAC Deployment Guide.

In addition, there are two changes that must be made in the legacy Console java application and one change in the legacy Inventory Manager application.

### Console

Use the following instructions to change the location of syslog and trap information to the new location on the Linux system.

#### Syslog

Change the Syslog Log Manager to point to the new location on the Linux system. This allows the display of syslog information in the **Syslog Event View** tab.

1. From the Console menu bar, select **Tools > Alarm/Event > Event View Manager**.
2. Click on the Syslog entry under Available Log Managers, and click the **Edit** button. The Log Manager Parameters window opens.
3. Change the path in the Log Directory field to /var/log/syslog.
4. Change the Pattern to Red Hat LINUX Syslog Pattern.
5. Click **OK**.

## Traps

Change the Traps Log Manager to point to the new location on the Linux system. This allows the display of trap information in the **Traps Event View** tab.

1. From the Console menu bar, select **Tools > Alarm/Event > Event View Manager**.
2. Click on the Traps entry under Available Log Managers, and click the **Edit** button. The Log Manager Parameters window opens.
3. Change the path in the Log Directory field to %logdir%/traps.
4. Click **OK**.

## Inventory Manager

If you are using Inventory Manager, you need to change the Data Storage Directory path to point to the new location on the Linux system. The Data Storage directory is where all Inventory Manager data is stored, including capacity planning reports, configuration templates, archived configurations, and property files.

1. From the Inventory Manager menu bar, select **Tools > Options**. Expand the Inventory Manager options folder and select **Data Storage Directory Path**.
2. Change the path to the correct new location. On a default Linux install, the path would be: <user's home directory>/appdata/InventoryMgr
3. Click **OK**.

## Systems with Multiple NICs

This section provides instructions for configuring Extreme Management Center servers with multiple NICs (Network Interface Cards). During the startup process, the Extreme Management Center server automatically binds to the first available NIC, which may not be the correct interface for the server to use. In addition, changes on the network can cause the server to bind to an incorrect interface, should the server restart during a change.

If the system has multiple NICs installed, it is a good practice to either:

- configure the server to bind to a preferred IP address, if using only one interface for connections or

- configure multiple network interfaces, if using more than one interface for connections.

This ensures that local and remote clients, as well as Extreme Access Control engines, are able to connect to the Extreme Management Center server.

## Binding to One Interface

If the Extreme Management Center server has multiple NICs installed but only one interface is used to access Extreme Management Center, use the following instructions to configure the preferred interface for the Extreme Management Center server.

On Windows systems, you will need to set the binding order of the network interface cards and configure the Extreme Management Center server to bind to the correct address. On Linux systems, you need to configure the Extreme Management Center server to bind to the correct address.

### Windows Systems

Set the binding order of multiple network interface cards and configure the Extreme Management Center server to bind to the correct IP address. These steps may vary depending on your operating system.

1. Open the **Network Connections** window:
  - a. Click **Start > Run**.
  - b. Enter `ncpa . cp1` and click **OK**.

The **Network Connections** window opens. You can view the available connections in the LAN and High-Speed Internet section of the window.

2. From the **Network Connections** window menu bar, select **Advanced > Advanced Settings**. The **Advanced Settings** window opens.
3. The **Adapters and Bindings** tab lists the connections in the order in which the connections are accessed by network services. The NIC that the Extreme Management Center server connects to must be first in the list. You can use the arrow buttons to change the binding order.
4. Open the `.netsight` file. Edit the line `JBOSS_HOSTNAME=<server IP>` to add the correct NIC IP address. (On Windows Server 2008 and Windows 7, the file is located at `C:\ProgramData\Extreme Networks`. On Windows Server 2003, the file is

located at C:\Documents and Settings\All Users\Application Data\Extreme Networks.)

5. Restart the Extreme Management Center server.

## Linux Systems

Configure the Extreme Management Center server to bind to the correct IP address.

1. Open the `/var/Extreme_Networks/.netsight` file. Edit the line `JBOSS_HOSTNAME=<server IP>` to add the correct NIC IP address.
2. Restart the Extreme Management Center server.

## Configuring Multiple Interfaces

If the Extreme Management Center server has multiple NICs installed and you need to access Extreme Management Center on multiple interfaces, use the following instructions to configure multiple network interfaces for the Extreme Management Center server.

1. On the Extreme Management Center server, add the following text to the `<install directory>/appdata/NSJBoss.properties` file. In the second to last line, specify the hostname of the Extreme Management Center server.

```
# In order to connect to a NetSight server behind a NAT firewall or a
# NetSight server with multiple interfaces you must define these two
# variables on the NetSight server. The java.rmi.server.hostname
# should be the hostname
(not the IP) if multiple IPs are being used
# so that each client can resolve the hostname to the correct IP that
# they want to use as the IP to connect to.
java.rmi.server.hostname=<hostname of NetSight server>
java.rmi.server.useLocalHostname=true
```
2. Save the file.
3. Add the Extreme Management Center server hostname to your DNS server.

**NOTE:** Multiple interface support has been added to provide support for clients accessing the Extreme Management Center server in a configuration where the primary Extreme Management Center interface may not be accessible/routable to remote clients, such as in an MSSP environment. This support provides for both visibility and management of network devices for clients accessing Extreme Management Center from an additional interface, however some functionality may be limited. For example, TFTP configuration and firmware management of devices located off a second Extreme Management Center interface may not function properly.

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## Remote Client Launch

Extreme Management Center is a web-based application you access from the [Extreme Management Center Login](#) page. Remote Extreme Management Center clients can use the following steps to access the Extreme Management Center Launch Page and run Extreme Management Center applications from the remote client machine.

1. Open a browser window and enter your Extreme Management Center information as a URL in the following format:

**`http://servername:8080/`**

where *servername* is the Extreme Management Center server's IP address or hostname, and 8080 is the required port number. For example,

**`http://10.20.30.40:8080/`**

2. The [Extreme Management Center Login](#) page opens.

Extreme Management Center requires a user login as a way to restrict access to the Extreme Management Center server, perform audit trails, and assign user capabilities according to the Authorization Group the user belongs. It is important to note that when you log in, you are authenticating to the operating system of the Extreme Management Center server system to which you are connecting.

3. Enter your username if you are authenticating to a Linux platform server or enter your domain name\username if you are authenticating to a Windows platform server.
4. Enter your password and click **Login**.
5. The application main window opens.

The first time you log in, the embedded help window displays the Getting Started

**NOTE:** User preferences and application data (such as FlexViews and MIBs) for remote clients are stored in the following local directory on the client machine: C:\Documents and Settings\\Application Data\NetSight.

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## Uninstalling Extreme Management Center

Use the procedures below to uninstall your Extreme Management Center Suite of products. The uninstall removes all Extreme Management Center data from the database. Be sure to backup your database prior to uninstalling.

### Uninstalling on Windows

From the **Start** menu, select **Programs > Extreme Networks > NetSight > Uninstall**.

### Uninstalling on Linux

Navigate to the <install directory>/uninstaller directory and start the Uninstaller by issuing the command:

```
./uninstall.sh
```

## Extreme Networks Support

If you require assistance, contact Extreme Networks Global Technical Assistance Center using one of the following methods.

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Web	<a href="http://www.extremenetworks.com/support/">www.extremenetworks.com/support/</a>
Phone	1-800-872-8440 (toll-free in U.S. and Canada) or 1-603-952-5000 For the Extreme Networks Support phone number in your country: <a href="http://www.extremenetworks.com/support/contact/">www.extremenetworks.com/support/contact/</a>
Email	<a href="mailto:support@extremenetworks.com">support@extremenetworks.com</a>

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