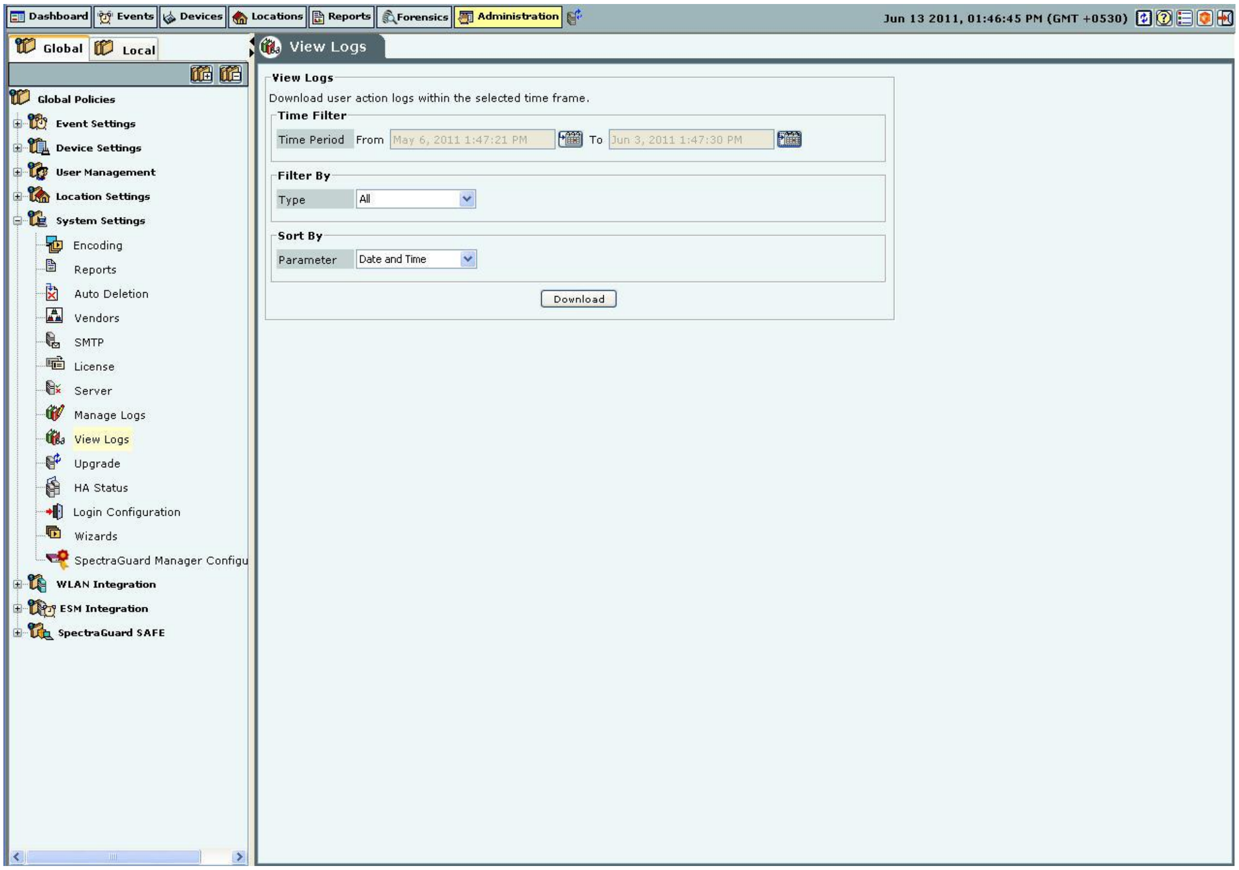


View Logs

Download user action logs within the selected time frame.

Time Filter

Time Period From May 6, 2011 1:47:21 PM To Jun 3, 2011 1:47:30 PM

Filter By

Type: All

Sort By

Parameter: Date and Time

View Logs

Recommendation: In order to properly view the multilingual characters, download the log file in .TSV format and view it in Excel.

In the log file, different log records are listed in different rows. For each row, following columns are provided:

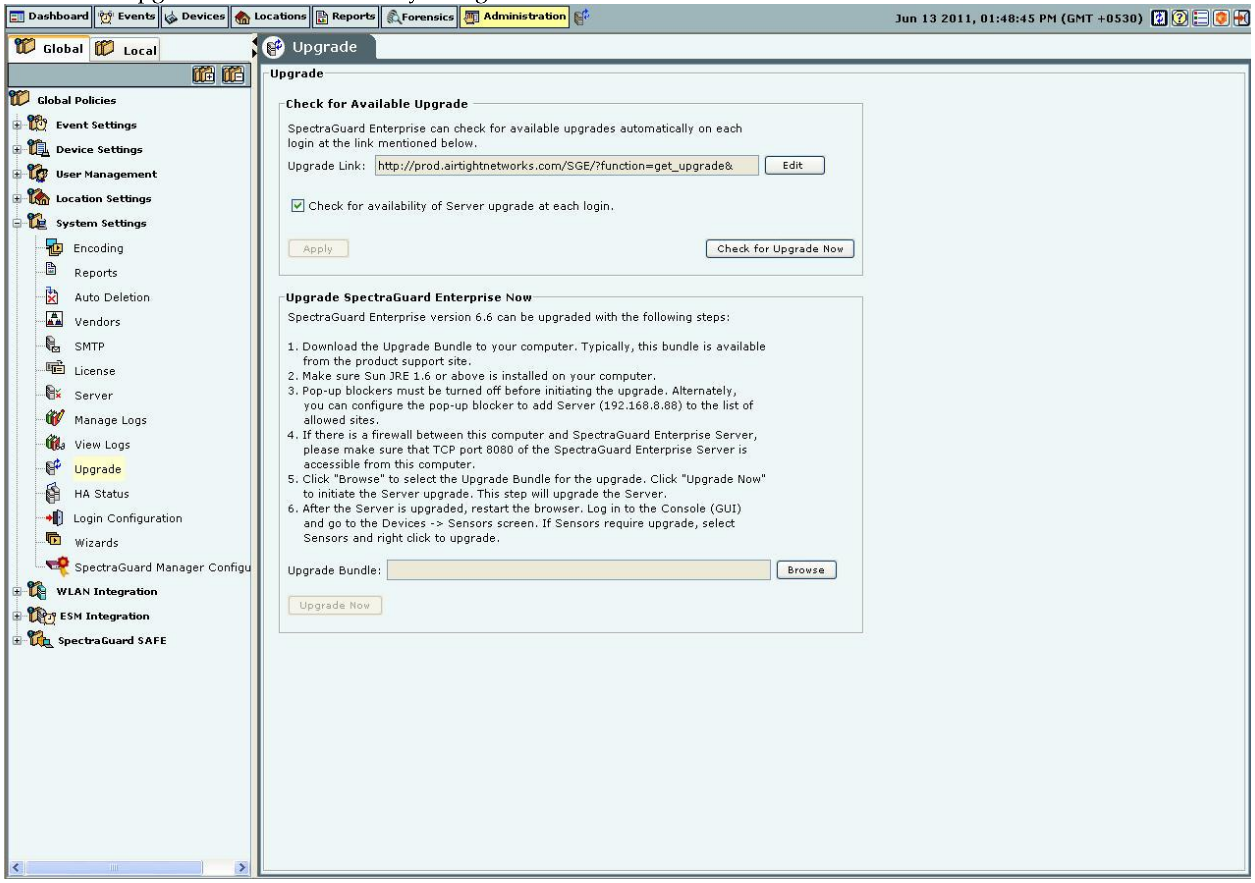
- **Date (UTC):** Specifies the date and the time of the record in UTC format
- **Module:** Specifies if the user action was performed from the Console (GUI), API, or the Config Shell (CLI)
- **Host Address:** Specifies the IP Address/Client Name/API Client Identifier/Hostname from where the system was accessed by the user
- **Role:** Specifies the role of the user
- **Login Name:** Specifies the login name of the user whose action has triggered the specific log record
- **Type:** This column indicates the type of record. Type is one of: Access, Devices, Events, Reports, Location Tree, Local Settings, Global Settings, Start/Stop Functions, System, Others.
- **Status:** This column indicates if the record pertains to success or failure of the action.
- **Message:** Describes the record in detail.

Upgrade

Upgrade the Server

The system enables you to upgrade the existing version of the server to a newer version, if available. This section describes the steps to upgrade the server working in Standalone mode. For steps to upgrade the server working in High availability (HA) mode, refer to the High Availability Configuration Guide.

Select the check box, **Check for availability of Server upgrade at each login**, to enable the system automatically check if an upgrade is available when you log into the console.



Upgrade

Check for Available Upgrade

SpectraGuard Enterprise can check for available upgrades automatically on each login at the link mentioned below.

Upgrade Link: http://prod.airtightnetworks.com/SGE/?function=get_upgrade& [Edit]

☑ Check for availability of Server upgrade at each login.

[Apply] [Check for Upgrade Now]

Upgrade SpectraGuard Enterprise Now

SpectraGuard Enterprise version 6.6 can be upgraded with the following steps:

1. Download the Upgrade Bundle to your computer. Typically, this bundle is available from the product support site.
2. Make sure Sun JRE 1.6 or above is installed on your computer.
3. Pop-up blockers must be turned off before initiating the upgrade. Alternately, you can configure the pop-up blocker to add Server (192.168.8.88) to the list of allowed sites.
4. If there is a firewall between this computer and SpectraGuard Enterprise Server, please make sure that TCP port 8080 of the SpectraGuard Enterprise Server is accessible from this computer.
5. Click "Browse" to select the Upgrade Bundle for the upgrade. Click "Upgrade Now" to initiate the Server upgrade. This step will upgrade the Server.
6. After the Server is upgraded, restart the browser. Log in to the Console (GUI) and go to the Devices -> Sensors screen. If Sensors require upgrade, select Sensors and right click to upgrade.

Upgrade Bundle: [Browse]

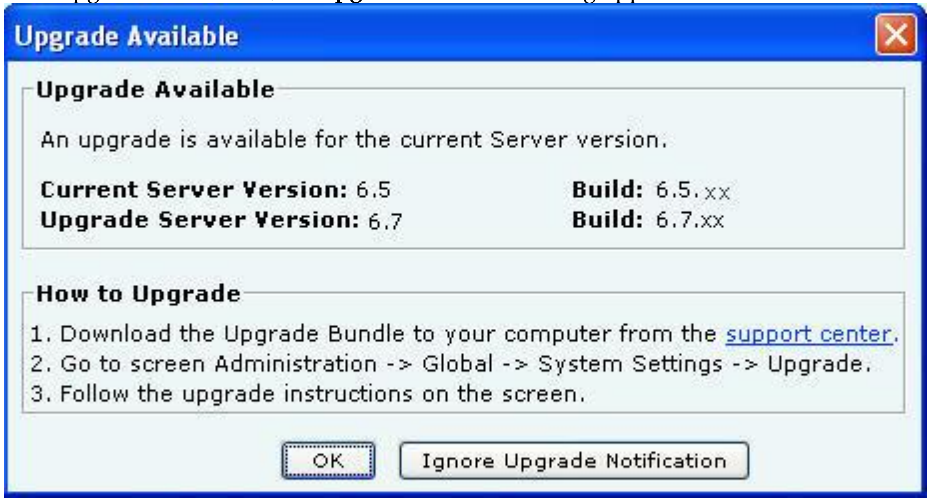
[Upgrade Now]

Upgrade

If you have modified the **Upgrade Link**, to save it click <**Apply**> on the **Upgrade** screen.

To check if an upgrade is available for the server, click <**Check for Upgrade Now**>.

If an upgrade is available, an **Upgrade Available** dialog appears.



Upgrade Available

Upgrade Available

An upgrade is available for the current Server version.

Current Server Version: 6.5 **Build:** 6.5.xx

Upgrade Server Version: 6.7 **Build:** 6.7.xx

How to Upgrade

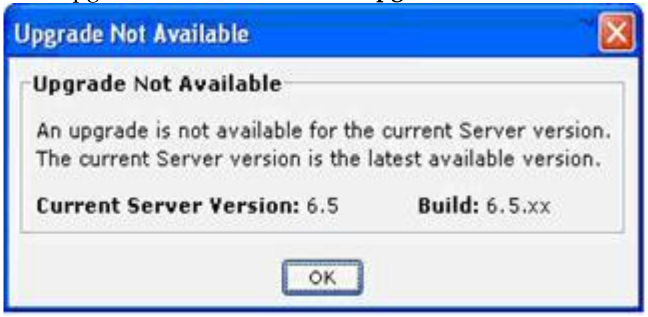
1. Download the Upgrade Bundle to your computer from the support center.
2. Go to screen Administration -> Global -> System Settings -> Upgrade.
3. Follow the upgrade instructions on the screen.

[OK] [Ignore Upgrade Notification]

Upgrade Available Dialog

Click the hyperlink, **support center**, to go to the AirTight® Networks Support Portal, from where you can download the server upgrade bundle.

Click **OK** or close the dialog to close the **Upgrade Available** dialog. Alternatively, click **Ignore Upgrade Notification** to ignore the upgrade notification until you log out of the Console.
If an upgrade is not available, an **Upgrade Not Available** dialog appears. Click <**OK**> to close the dialog.



Upgrade Not Available

Upgrade Not Available

An upgrade is not available for the current Server version.
The current Server version is the latest available version.

Current Server Version: 6.5 **Build:** 6.5.xx

Upgrade Not Available Dialog

Upgrade SpectraGuard Enterprise Now

Prerequisites:

1 Sun Java Runtime Environment (JRE) version 1.6 update 22 or above must be installed on the computer from where you access the Console.

2 Popup blockers on the computer from which the Console is accessed must allow popup windows from the server.

3 If there is a firewall between the computer from which the Console is accessed and the server, TCP port 8080 of the server must be accessible from that computer.

4 Users with the 'Superuser' user role only can initiate server upgrade using this method.

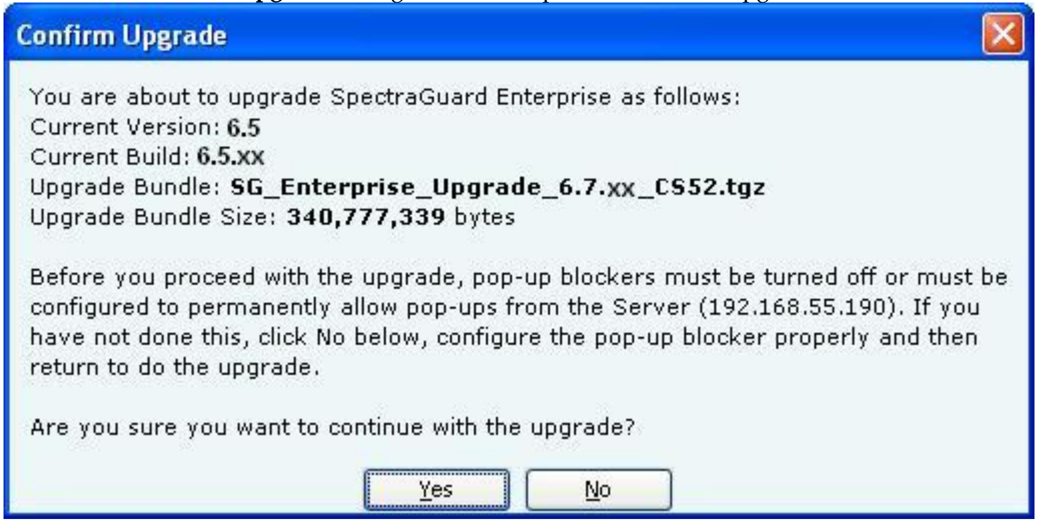
Recommended: *To upgrade the server to a higher version, ensure that you access the Console using a computer whose IP address is not behind Network Address Translation (NAT). If you access the Console, using a NATed IP, upgrade will continue in the background but you cannot view the upgrade progress messages.*

Steps for Server Upgrade

1 Click **Browse** to select the Upgrade Bundle.

2 Click **Upgrade Now** to transfer the Upgrade Bundle to the server.

3 On the **Confirm Upgrade** dialog, click **Yes** to proceed with the upgrade.



Confirm Upgrade

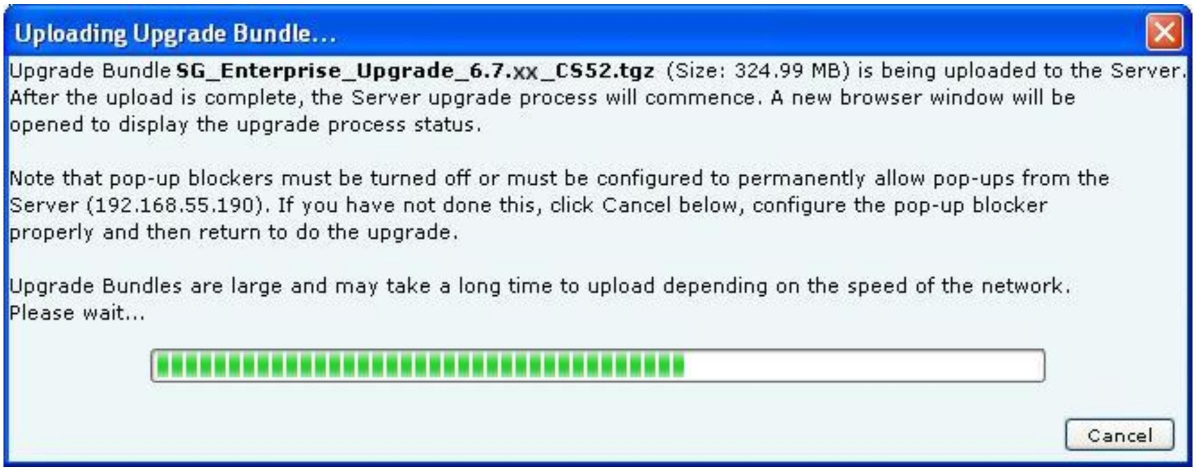
You are about to upgrade SpectraGuard Enterprise as follows:
Current Version: **6.5**
Current Build: **6.5.xx**
Upgrade Bundle: **SG_Enterprise_Upgrade_6.7.xx_CS52.tgz**
Upgrade Bundle Size: **340,777,339** bytes

Before you proceed with the upgrade, pop-up blockers must be turned off or must be configured to permanently allow pop-ups from the Server (192.168.55.190). If you have not done this, click No below, configure the pop-up blocker properly and then return to do the upgrade.

Are you sure you want to continue with the upgrade?

Confirm Upgrade Dialog

4 The Uploading Upgrade Bundle message with the progress bar appears.



Uploading Upgrade Bundle...

Upgrade Bundle **SG_Enterprise_Upgrade_6.7.xx_CS52.tgz** (Size: 324.99 MB) is being uploaded to the Server. After the upload is complete, the Server upgrade process will commence. A new browser window will be opened to display the upgrade process status.

Note that pop-up blockers must be turned off or must be configured to permanently allow pop-ups from the Server (192.168.55.190). If you have not done this, click Cancel below, configure the pop-up blocker properly and then return to do the upgrade.

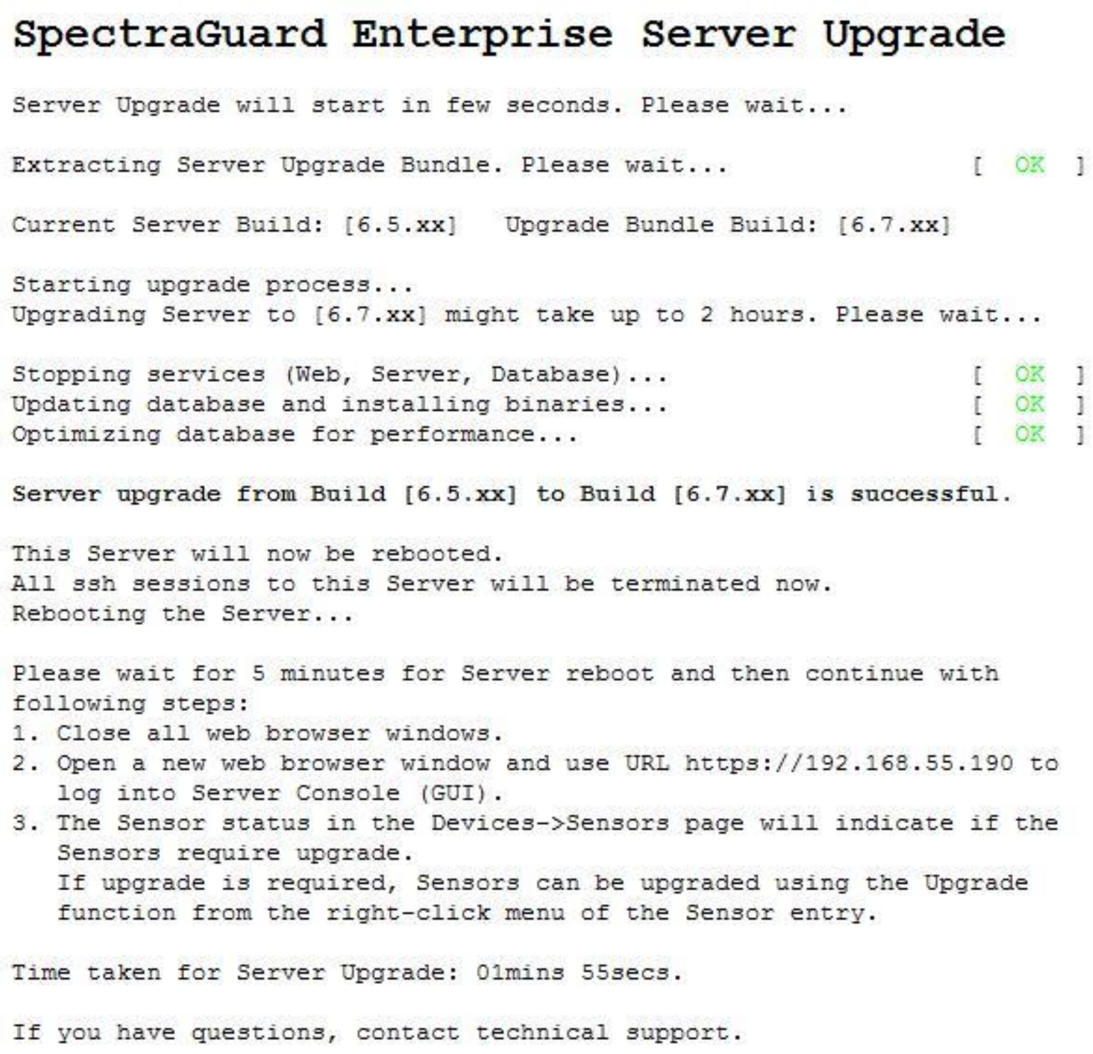
Upgrade Bundles are large and may take a long time to upload depending on the speed of the network. Please wait...

Uploading Upgrade Bundle Progress Bar

5 You can cancel the upgrade by clicking **Cancel** anytime while the Upgrade Bundle upload is in progress.

6 After the Server Upgrade Bundle upload is complete, Server Upgrade starts automatically.

7 Close the current browser window. A new window, **Server Upgrade Progress**, is launched which displays the status of the Server Upgrade process. Follow the instructions displayed on the Server Upgrade Progress window.



```
SpectraGuard Enterprise Server Upgrade

Server Upgrade will start in few seconds. Please wait...

Extracting Server Upgrade Bundle. Please wait...              [  OK  ]

Current Server Build: [6.5.xx]   Upgrade Bundle Build: [6.7.xx]

Starting upgrade process...
Upgrading Server to [6.7.xx] might take up to 2 hours. Please wait...

Stopping services (Web, Server, Database)...                  [  OK  ]
Updating database and installing binaries...                  [  OK  ]
Optimizing database for performance...                        [  OK  ]

Server upgrade from Build [6.5.xx] to Build [6.7.xx] is successful.

This Server will now be rebooted.
All ssh sessions to this Server will be terminated now.
Rebooting the Server...

Please wait for 5 minutes for Server reboot and then continue with
following steps:
1. Close all web browser windows.
2. Open a new web browser window and use URL https://192.168.55.190 to
   log into Server Console (GUI).
3. The Sensor status in the Devices->Sensors page will indicate if the
   Sensors require upgrade.
   If upgrade is required, Sensors can be upgraded using the Upgrade
   function from the right-click menu of the Sensor entry.

Time taken for Server Upgrade: 01mins 55secs.

If you have questions, contact technical support.
```

Server Upgrade Progress Window

Note: *You cannot abort or cancel the Server Upgrade process once the* ***Server Upgrade Progress*** *window is launched. Additionally, the Server Upgrade process continues even if the* ***Server Upgrade Progress*** *window is closed.*

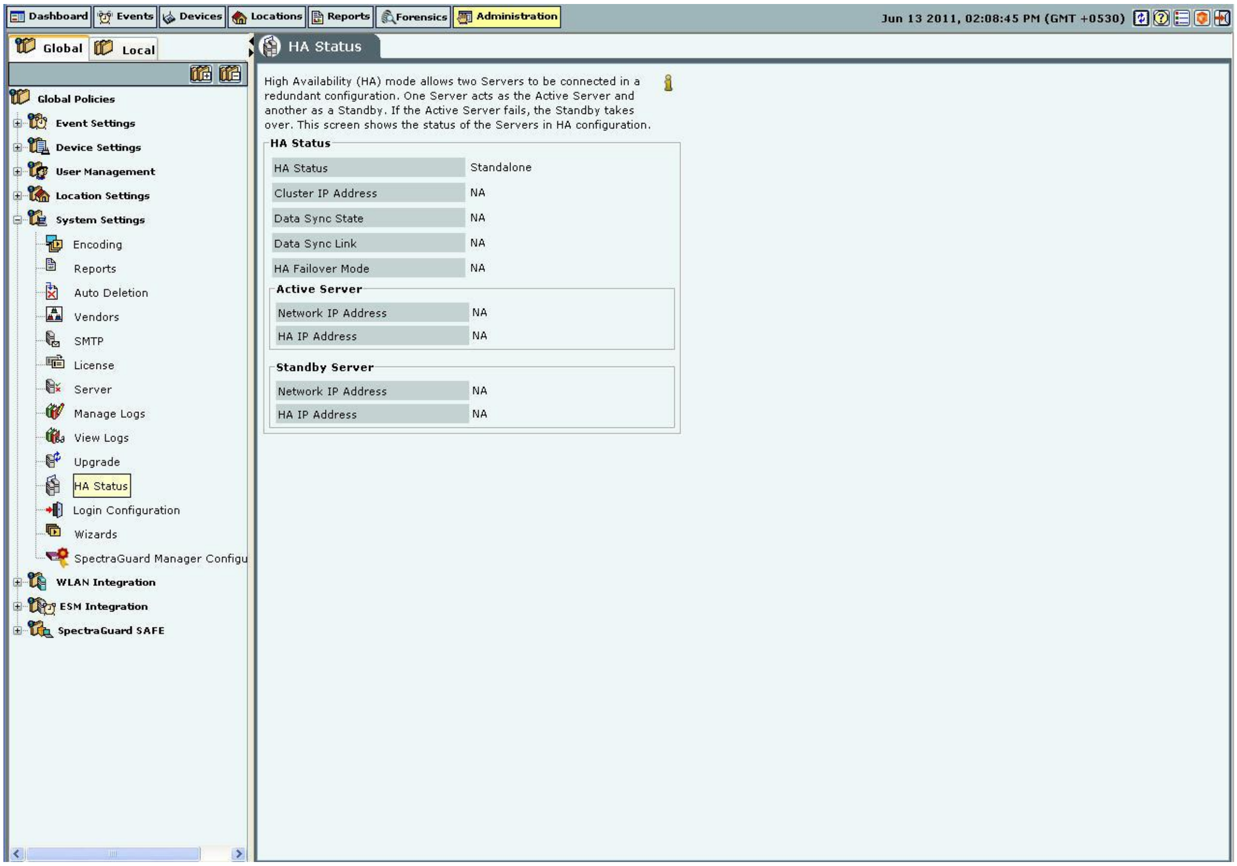
8 After the server upgrade is successful, the server reboots automatically.

9 After you have read all instructions on the **Server Upgrade Progress** window, close all the Web browser windows including the **Server Upgrade Progress** window.

10 Wait for five minutes for the server to reboot. After this, you can access the server again.

High Availability

High Availability (HA) mode allows two servers to be connected in a redundant configuration to form an HA cluster. One server acts as the Active server, while the other as a Standby server. If the Active server fails, the Standby server takes over. This screen shows the status of the servers in HA cluster.



HA Status

High Availability (HA) mode allows two Servers to be connected in a redundant configuration. One Server acts as the Active Server and another as a Standby. If the Active Server fails, the Standby takes over. This screen shows the status of the Servers in HA configuration.

HA Status

HA Status	Standalone
Cluster IP Address	NA
Data Sync State	NA
Data Sync Link	NA
HA Failover Mode	NA

Active Server

Network IP Address	NA
HA IP Address	NA

Standby Server

Network IP Address	NA
HA IP Address	NA

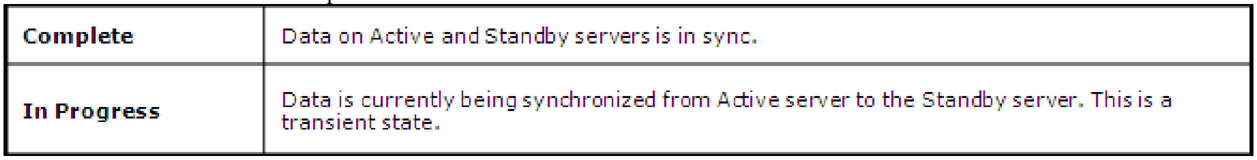
HA Status

HA Status: This is a read-only section and displays the following information:

- **HA Status:** Displays the status of the HA Cluster.
  - **Standalone:** This state indicates that the server is in Standalone mode.
  - **Up**: This state indicates that the HA Cluster is up and running.
  - **Other Server Not Reachable**: This state indicates that the Standby server is not reachable over the HA interface link. Check whether the HA interfaces of both the servers are securely connected using a crossover Ethernet cable.
  - **Temporarily In Transition**: This is an intermediate state. You need to wait for up to 30 minutes and then check the HA Status again. If this state persists, contact Technical Support.
  - **HA Setup In Progress**: This state indicates that an HA setup is in progress using Config Shell or an earlier HA setup session was abnormally terminated. If you are sure HA setup is not in progress, reboot both the servers. After reboot, both the servers come up in the 'Standalone' mode. You need to wait for five minutes after the reboot and then login to these servers.
  - **Server Upgrade In Progress**: This state indicates that server Upgrade is in progress or an earlier server Upgrade session was abnormally terminated. If you are sure server Upgrade is not in progress, reboot the server. After reboot, the server will come up in the 'Standalone' mode. You need to wait for five minutes after the reboot and then login to the server.
  - **Database Operation In Progress**: This state indicates that some database operation is in progress. If you are sure no database operation is in progress, please contact Technical Support.
  - **Internal System Recovery In Progress**: This state indicates that internal system recovery is in progress. If the same state persists for more than 30 minutes, please ensure that both the HA servers are up and the HA interfaces of these servers are securely connected using a crossover Ethernet cable. If the same state persists even after the above checks, please contact Technical Support.

- **Error**: This state indicates an error in HA state. Contact Technical Support.

- **Cluster IP Address:** This IP Address can be used by the Console and Sensors to connect to the HA cluster. This is a virtual IP Address used to connect to the HA cluster. Cluster IP address is optional. It can not be used in Layer3 HA configuration.
- **Data Sync State:** Displays the state of data synchronization from Active Server to Standby Server after enabling HA Service or after database operation such as database restore.



Complete	Data on Active and Standby servers is in sync.
In Progress	Data is currently being synchronized from Active server to the Standby server. This is a transient state.

- **Data Sync Link:** Data sync link is the link which carries data from the Active Server to Standby. HA interface or Network Interface can be used as 'Data Sync Link' between the servers. During HA setup, user can skip use of HA interface.

This field indicates whether two servers are reachable over 'Data Sync Link' interface.

- **HA Failover Mode:** Indicates HA failover mode – Automatic/Manual.

Active Server: This section displays IP addresses of the Active server.

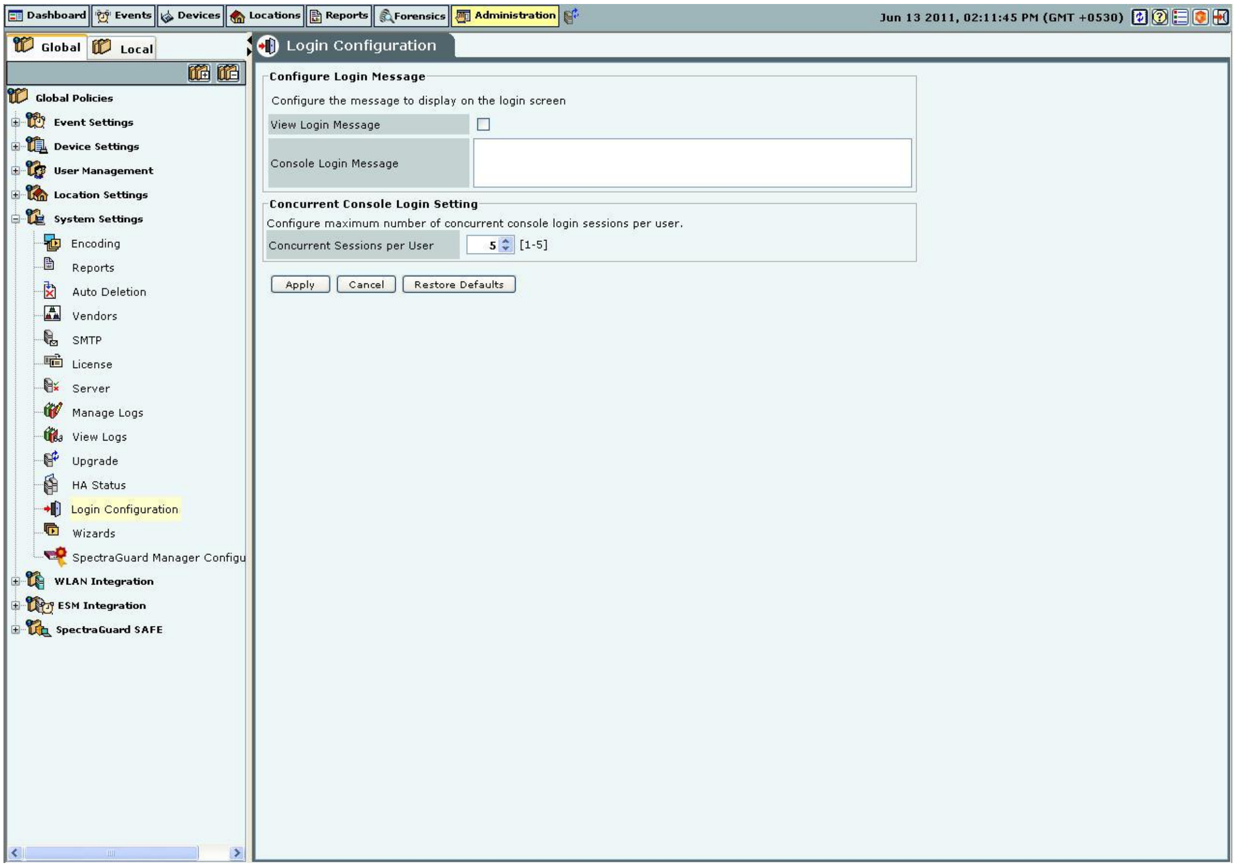
- **Network IP Address:** This is the IP Address of the network interface of the Active server.
- **HA IP Address:** This is the IP Address of the HA interface of the Active server.

Standby Server: This section displays IP Addresses of the Standby Server.

- **Network IP Address:** This is the IP Address of the network interface of the Standby server.
- **HA IP Address:** This is the IP Address of the HA interface of the Standby server.

Login Configuration

The system enables you to configure a login message through the **Login Configuration** screen. Superuser of the system has the right to enter the login message that will be flashed in the **Login** screen.



Configure Login Message

Configure the message to display on the login screen

View Login Message ☐

Console Login Message

Concurrent Console Login Setting

Configure maximum number of concurrent console login sessions per user.

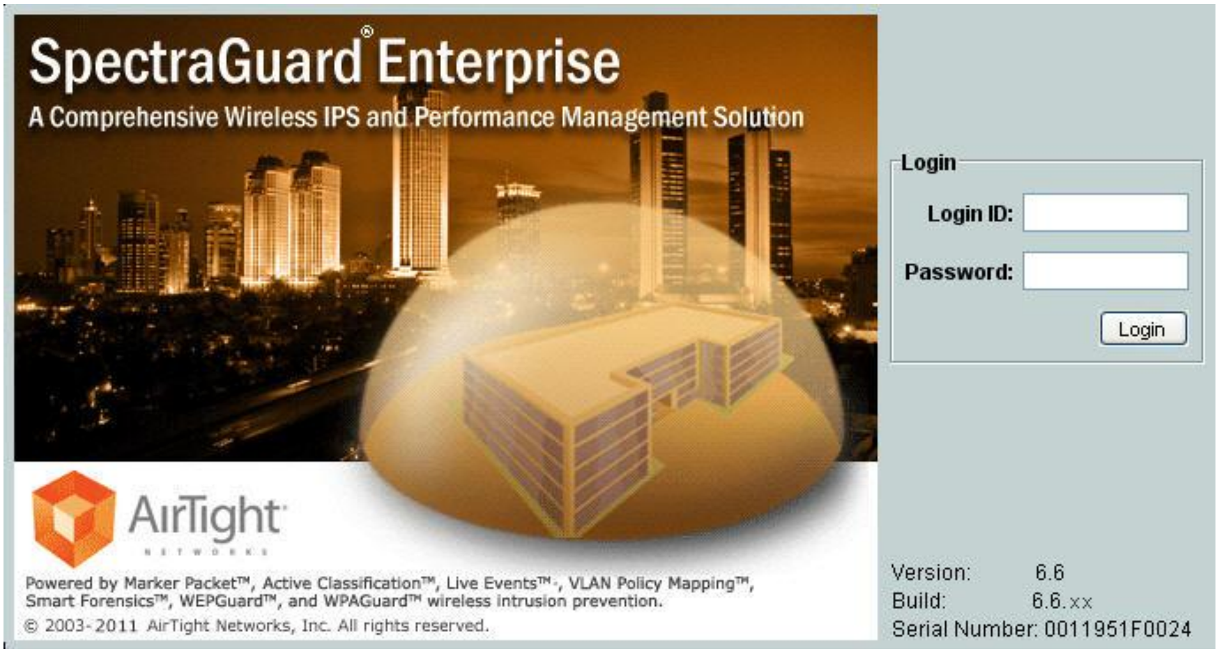
Concurrent Sessions per User 5 [1-5]

Login Configuration

Under **Configure Login Message:**

- Select the checkbox, **View Login Message** to show the login message on the Console login page.
- **Console Login Message:** Specifies the login message to display on the Console and on the banner message of SGE CLI screen.

The Login screen with the specified Console Login Message appears as follows.



Powered by Marker Packet™, Active Classification™, Live Events™, VLAN Policy Mapping™, Smart Forensics™, WEPGuard™, and WPAGuard™ wireless intrusion prevention.

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Version: 6.6
Build: 6.6.xx
Serial Number: 0011951F0024

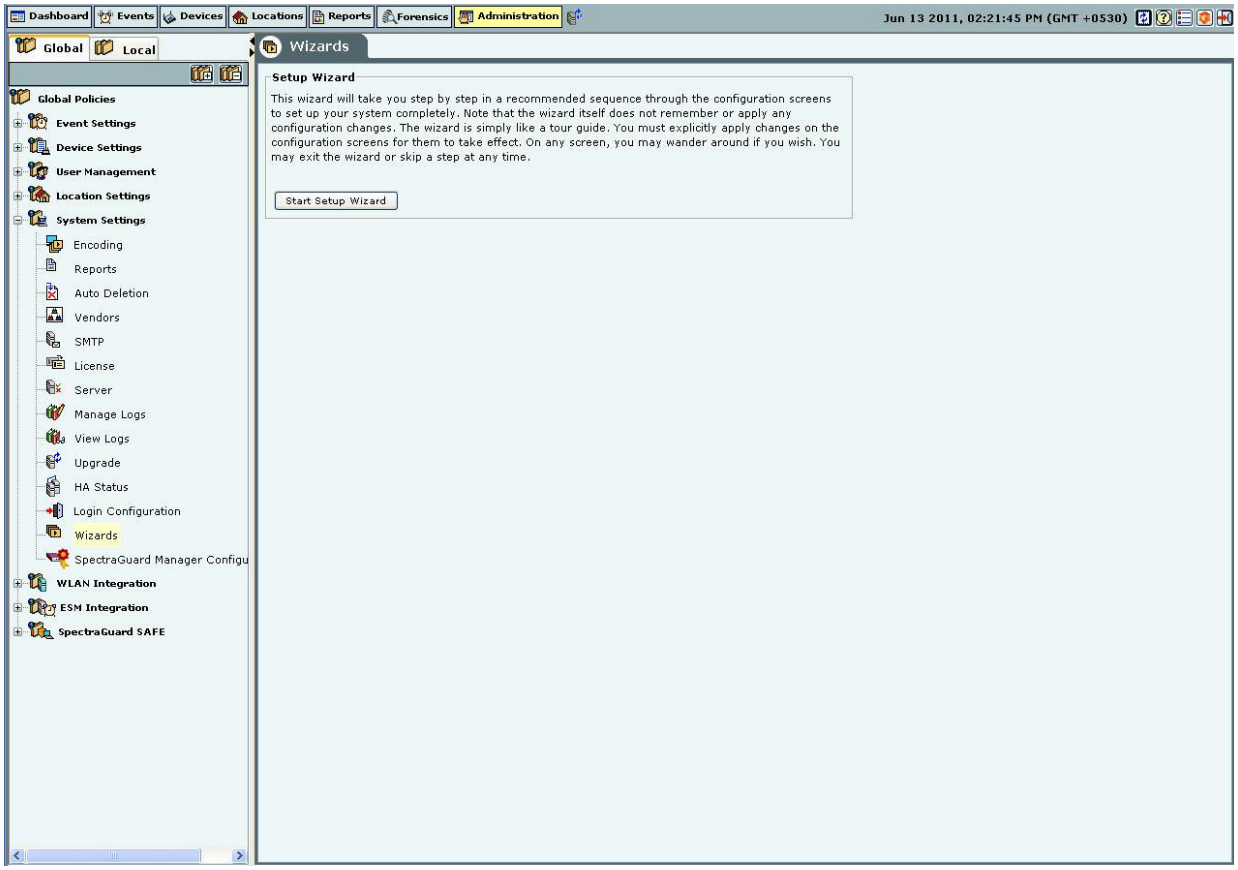
Login Screen with the Console Login Message

Under **Concurrent Console Login Settings:**

- **Concurrent Sessions per User**: Configures the maximum number of concurrent console login sessions per user. *(Minimum: 1, Maximum: 5, Default: 5)*

Wizard

The system's Setup Wizard systematically takes you through a recommended sequence of configuration screens that enable you to set up your system completely. This wizard does not remember or apply any configuration changes. It is simply a tour guide. You must explicitly apply changes on the individual configuration screens for them to take effect. You can exit the wizard or skip a step at any time.



Setup Wizard

This wizard will take you step by step in a recommended sequence through the configuration screens to set up your system completely. Note that the wizard itself does not remember or apply any configuration changes. The wizard is simply like a tour guide. You must explicitly apply changes on the configuration screens for them to take effect. On any screen, you may wander around if you wish. You may exit the wizard or skip a step at any time.

Start Setup Wizard

Wizards

Click **Start Setup Wizard** to open a Confirm message dialog that confirms your navigation through the wizard.

SpectraGuard Manager Configuration

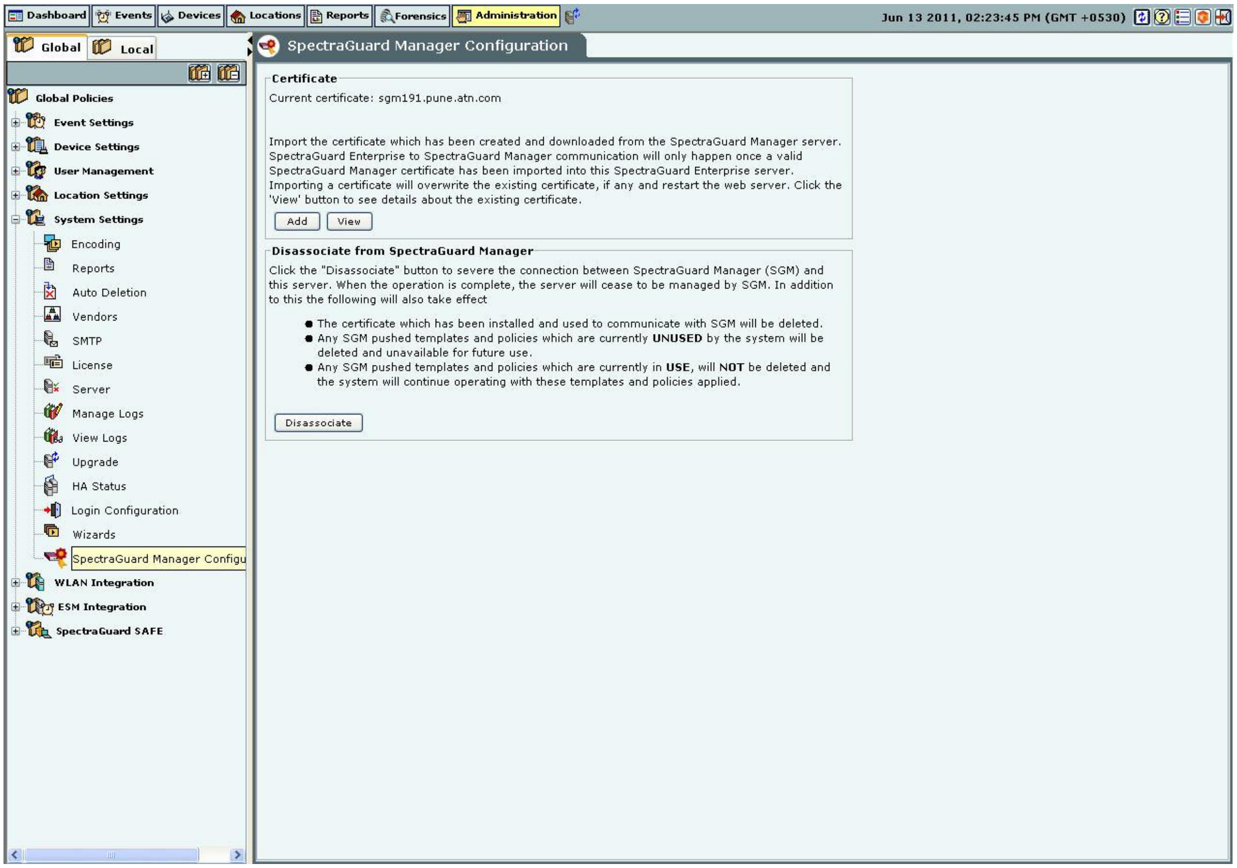
SpectraGuard Manager establishes a communication channel with SpectraGuard Enterprise through a digital certificate. Version 6.6 onwards, digital certificate-based authentication replaces the username-password authentication required to log in to the SpectraGuard Enterprise Console through the SpectraGuard Manager Console. To use certificate-based authentication, you need to have version 6.6 or above, of both SpectraGuard Manager and SpectraGuard Enterprise.

The certificate needs to be downloaded first from the SpectraGuard Manager and then added to the SpectraGuard Enterprise server. Both SpectraGuard Manager and SpectraGuard Enterprise need to have the same certificate to communicate with each other.

The SpectraGuard Manager Configuration option allows you to add, view or delete the certificate that serves as the link between SpectraGuard Enterprise server and SpectraGuard Manager.

This is a license-based feature. You will be able to see this option under **Administration->Global->System Settings** only if you have the appropriate license.

The following figure displays the SpectraGuard Manager Configuration screen.



Certificate

Current certificate: sgm191.pune.atn.com

Import the certificate which has been created and downloaded from the SpectraGuard Manager server. SpectraGuard Enterprise to SpectraGuard Manager communication will only happen once a valid SpectraGuard Manager certificate has been imported into this SpectraGuard Enterprise server. Importing a certificate will overwrite the existing certificate, if any and restart the web server. Click the 'View' button to see details about the existing certificate.

Disassociate from SpectraGuard Manager

Click the "Disassociate" button to severe the connection between SpectraGuard Manager (SGM) and this server. When the operation is complete, the server will cease to be managed by SGM. In addition to this the following will also take effect

- The certificate which has been installed and used to communicate with SGM will be deleted.
- Any SGM pushed templates and policies which are currently **UNUSED** by the system will be deleted and unavailable for future use.
- Any SGM pushed templates and policies which are currently in **USE**, will **NOT** be deleted and the system will continue operating with these templates and policies applied.

SpectraGuard Manager Configuration

Adding the digital certificate to SpectraGuard Enterprise Server

Before adding the certificate to the SpectraGuard Enterprise server, it must be downloaded from the SpectraGuard Manager console, and saved to the desired location. To add the certificate to the SpectraGuard Enterprise server, click **Add** on the **SpectraGuard Manager Configuration** screen. Select the certificate from the folder where you have saved it and add it to the SpectraGuard Enterprise server.

Viewing the digital certificate

Before adding the certificate to the SpectraGuard Enterprise server, it must be downloaded from the SpectraGuard Manager Console, and saved to the desired location. To view the certificate on the SpectraGuard Enterprise Console, click the View on the SpectraGuard Manager Configuration screen.

Disassociating the SpectraGuard Enterprise Server from SpectraGuard Manager

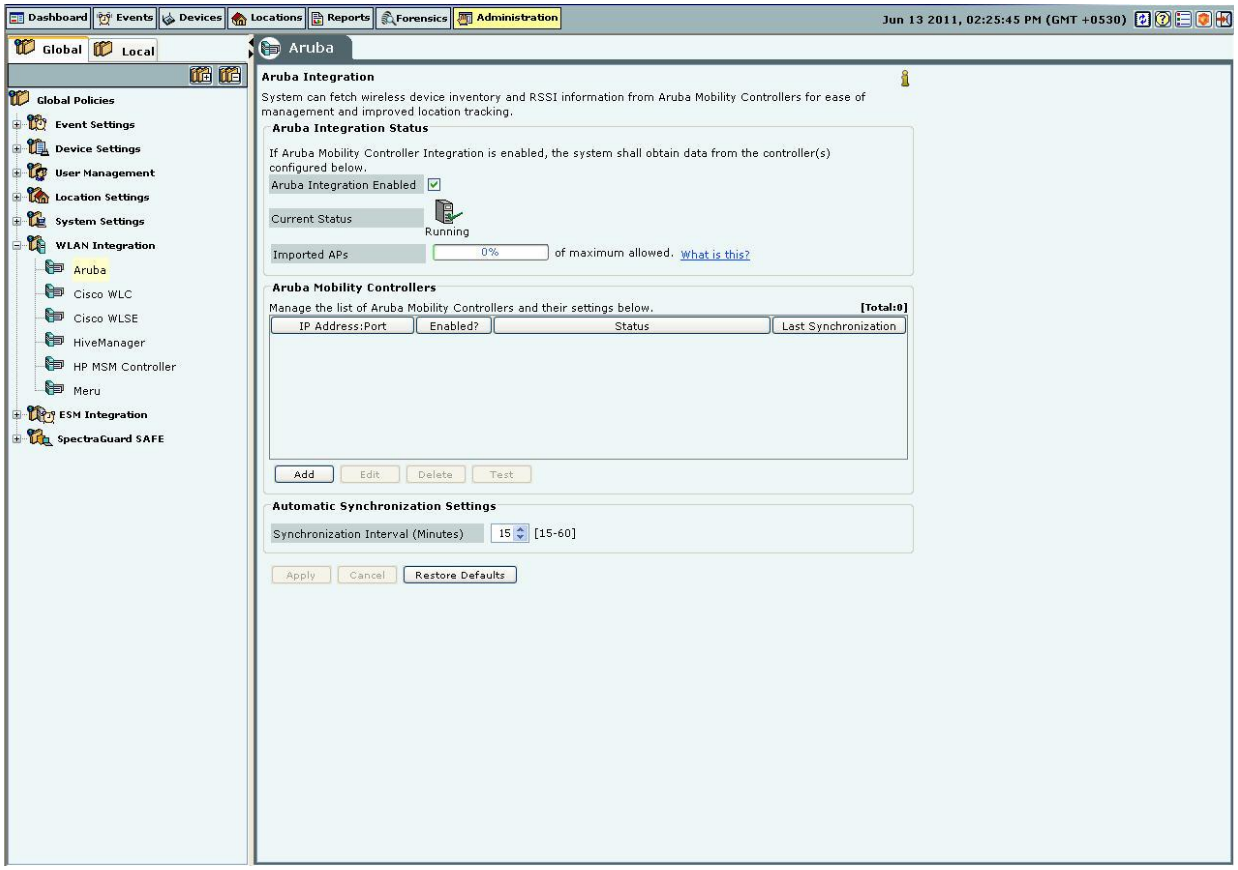
To end the association with SpectraGuard Manager, click **Disassociate.** On clicking **Disassociate**, the digital certificate used to communicate with SpectraGuard Manager is deleted from the SpectraGuard Enterprise server. After the disassociation, the SpectraGuard Enterprise server is no longer able to communicate with the SpectraGuard Manager.

WLAN Integration

The **WLAN Integration** dialog enables the system to be integrated with various WLAN Management tools.

Aruba Mobility Controllers

The system integrates with Aruba Mobility Controllers. It fetches wireless device details and RSSI information from the Aruba Mobility Controllers and thus helps to manage the WLAN infrastructure.
The Aruba WLAN architecture consists of Aruba Mobility Controllers and APs. At any time, the Aruba Mobility Controller has all the information about the APs and devices seen/associated with these APs.
Integration with Aruba allows the system to fetch this information from Aruba Mobility Controller. Using this information the system can automatically classify devices managed by Aruba Mobility Controllers, and do location tracking of devices seen by Aruba APs in sensor-less or sensor and AP mixed environment.



Aruba Integration

System can fetch wireless device inventory and RSSI information from Aruba Mobility Controllers for ease of management and improved location tracking.

Aruba Integration Status

If Aruba Mobility Controller Integration is enabled, the system shall obtain data from the controller(s) configured below.

Aruba Integration Enabled ☑

Current Status: Running

Imported APs: 0% of maximum allowed. What is this?

Aruba Mobility Controllers

Manage the list of Aruba Mobility Controllers and their settings below. **[Total:0]**

IP Address:Port	Enabled?	Status	Last Synchronization

Automatic Synchronization Settings

Synchronization Interval (Minutes): 15 [15-60]

Aruba Integration

- **Aruba Integration Status:** If **Aruba integration** is enabled, the system obtains data from the configured mobility controllers, which are individually enabled.
  - **Aruba Integration Enabled**: When you select the Aruba Integration Enabled check box, you can configure **Automatic Synchronization Settings**. The system ***disables*** a mobility controller, by default. However, automatically ***enables*** Aruba integration when you add a new Aruba Mobility Controller.
  - **Current Status**: Displays the **Current Status** of the Aruba mo: ***Running, In Process*** or ***Stopped***. An ***Error*** status is shown in one of the following cases:
    - One of the configured and enabled Aruba Mobility Controllers has a hostname, which cannot be resolved
    - One of the configured and enabled Aruba Mobility Controllers is not reachable
    - System server is stopped
    - Internal error, in which case you need to contact Technical Support
  - **Imported APs:** This percentage indicates total number of APs imported from enabled Aruba mobility controllers as a fraction of maximum allowed. The maximum allowed depends on type of appliance. The status displayed is as of the last synchronization event. It is recommended that the utilization remains below

80%. If the utilization exceeds 80%,the system performance may degrade and result in side effects such as sluggish UI and sensor disconnections.

- Under **Automatic Synchronization Settings**, select the System-Aruba Mobility Controller synchronization interval.

➢ **Synchronization Interval (Minutes)**: Specifies the interval for which the server synchronizes with the enabled Aruba mobility controllers

(Minimum: 15 minutes; Maximum: 60 minutes; Default: 30 minutes)

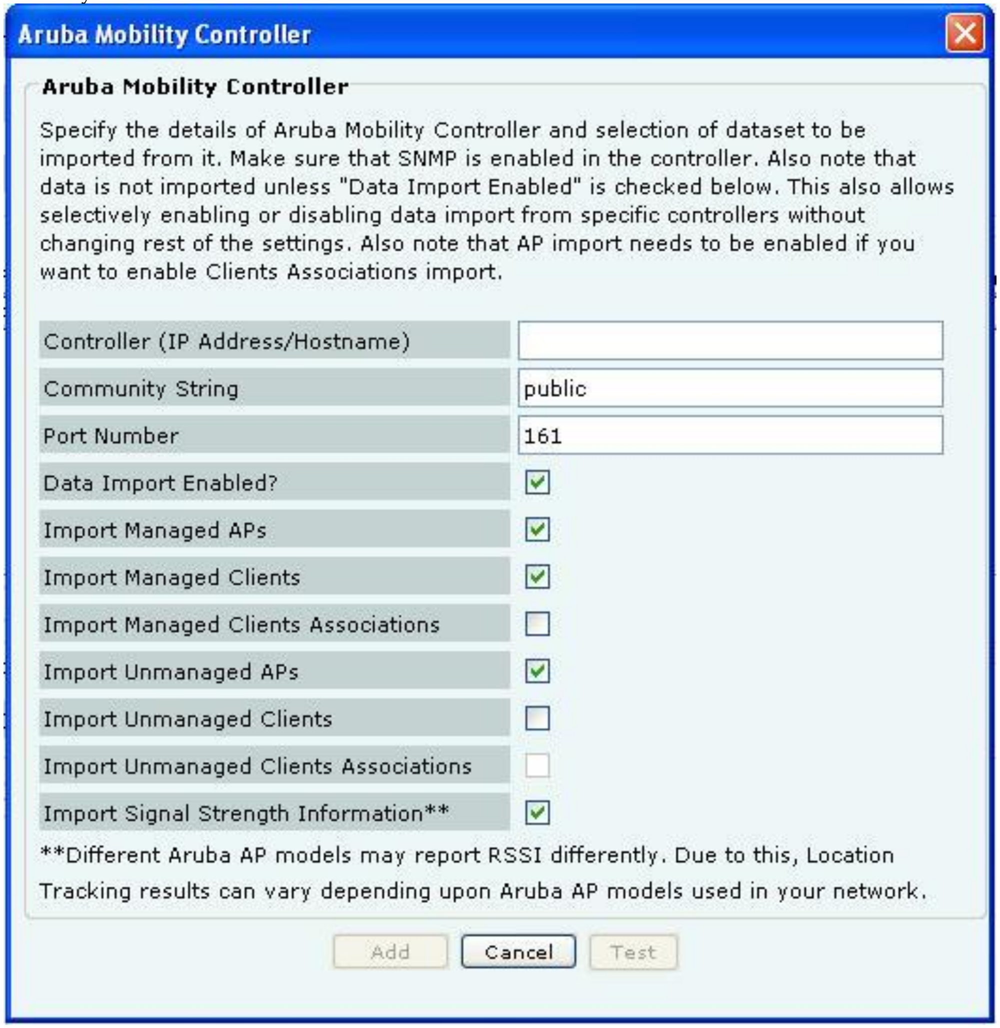
Click **Apply** to save the changes made to the Aruba Integration dialog.

Click **Cancel** to cancel the changes made to the Aruba Integration dialog.

Click **Restore Defaults** to restore the default values for the fields on the Aruba Integration dialog.

Adding an Aruba Mobility Controller

•□Under Aruba Mobility Controllers, click Add to open Aruba Mobility Controller dialog where you can add Aruba Mobility Controller details.



Aruba Mobility Controller

Aruba Mobility Controller

Specify the details of Aruba Mobility Controller and selection of dataset to be imported from it. Make sure that SNMP is enabled in the controller. Also note that data is not imported unless "Data Import Enabled" is checked below. This also allows selectively enabling or disabling data import from specific controllers without changing rest of the settings. Also note that AP import needs to be enabled if you want to enable Clients Associations import.

Controller (IP Address/Hostname)	
Community String	public
Port Number	161
Data Import Enabled?	☑
Import Managed APs	☑
Import Managed Clients	☑
Import Managed Clients Associations	□
Import Unmanaged APs	☑
Import Unmanaged Clients	□
Import Unmanaged Clients Associations	□
Import Signal Strength Information**	☑

**Different Aruba AP models may report RSSI differently. Due to this, Location Tracking results can vary depending upon Aruba AP models used in your network.

Aruba Mobility Controller Dialog

Aruba Mobility Controller contains the following fields:

➢ **Controller (IP Address/Hostname):** Specifies the IP address or the hostname of the Aruba Mobility Controller with which the system should communicate.

Note: *Configured Aruba Mobility Controllers will use the DNS names and DNS suffixes configured by the user in the Server Initialization and Setup Wizard on the Config Shell.*

- **Community String**: Specifies the user defined community string using which the system communicates with the Aruba Mobility Controller.
(Default: public)
- **Port Number:** Specifies the port number of the Aruba Mobility Controller from which data is imported.
(Default: 161)
- **Data Import Enabled?:** Indicates if the Aruba Mobility Controller is enabled to communicate with the system, for data import by the system.
(Default: Selected)
- **Import Managed APs?:** Indicates if the AP's managed by the Aruba Mobility Controller, are to be imported into the system.
(Default: Selected)
- **Import Managed Clients?:** Indicates if clients associated with APs managed by the Aruba Mobility Controller are to be imported into the system.
(Default: Selected)
- **Import Managed Clients Associations?:** Indicates if information related to AP-client association, for AP's managed by the Aruba Mobility Controller, is to be imported into the system. This check box is disabled, if **Import Managed Clients** check box is deselected.
- **Import Unmanaged APs?:** Indicates if APs not managed by the Aruba Mobility Controller are to be imported into the system.
(Default: Selected)
- **Import Unmanaged Clients?:** Indicates if Clients associated with APs not managed by the Aruba Mobility Controller, are to be imported into the system.
(Default: Deselected)
- **Import Unmanaged Clients Associations?:** Indicates if information related to AP-client association, for AP's managed by the Aruba Mobility Controller, is to be imported into the system. This check box is enabled, only if **Import Unmanaged Clients** check box is selected.
- **Import Signal Strength Information?:** Indicates if the signal strength of the managed devices is to be imported into the system.
(Default: Enabled)

Note: *Location Tracking results may vary depending on the Aruba AP models used in the network.*

Click **A**dd to add the details for the new Aruba Mobility Controller. Click Test to confirm the validity of IP Address/Hostname.

Editing Aruba Mobility Controller settings

Double-click a row to open the Aruba Mobility Controller Dialog similar to the one shown above, to update the Aruba Mobility Controller details. Alternatively, select a row and click **Edit** to open the Aruba Mobility Controller Dialog. Edit the required fields. Click Save to save the changes.

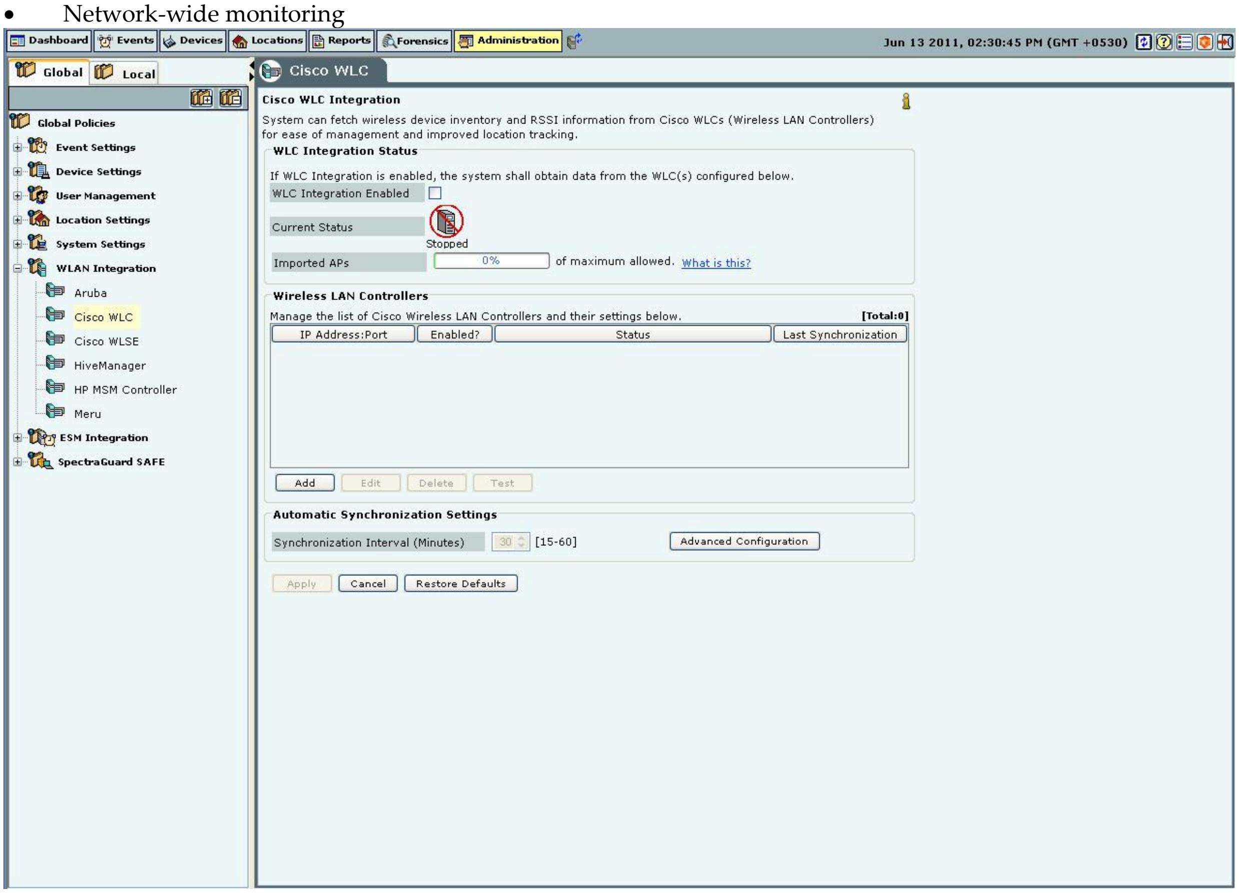
Deleting an Aruba Mobility Controller

Select a row and click Delete to discard the details of an existing Aruba Mobility Controller. You can delete multiple Aruba Mobility Controller details using click-and-drag or using the <Shift> + <Down Arrow> keys and then clicking Delete.

Cisco WLC

The Wireless LAN Controller (WLC) governs a collection of thin AP. LWAPP defines the network protocol between the APs and WLC. The advantages of this solution are:

- Increased scalability
- Simplified, centralized management
- Zero-touch AP deployment and configuration
- Network-wide monitoring



Cisco WLC Integration

System can fetch wireless device inventory and RSSI information from Cisco WLCs (Wireless LAN Controllers) for ease of management and improved location tracking.

WLC Integration Status

If WLC Integration is enabled, the system shall obtain data from the WLC(s) configured below.

WLC Integration Enabled □

Current Status: Stopped

Imported APs: 0% of maximum allowed. What is this?

Wireless LAN Controllers

Manage the list of Cisco Wireless LAN Controllers and their settings below. **[Total:0]**

IP Address:Port	Enabled?	Status	Last Synchronization

Automatic Synchronization Settings

Synchronization Interval (Minutes): 30 [15-60]

Cisco WLC

The Cisco Unified WLAN architecture consists of Wireless LAN Controllers (WLC) and APs. The APs are managed using Light Weight Access Point Protocol (LWAPP). At any time, the WLC has all the information about the APs and devices seen/associated with these APs.

Integration with Cisco WLC allows the system to fetch this information from WLC. Using this information the system can automatically classify devices managed by WLC and do location tracking of devices seen by LWAPP APs in sensor-less or sensor and AP mixed environment.

Important: *Currently, the system supports the following managed APs: Cisco Aironet 1000 Series, Cisco Aironet 1100 Series, Cisco Aironet 1130 Series, Cisco Aironet 1140 Series, Cisco Aironet 1200 Series, Cisco Aironet 1230 AG Series, Cisco Aironet 1240 AG Series, Cisco Aironet 1250 Series, and Cisco Aironet 1300 Series. The system supports WLC version 4.2 to 6.0.182.0.*

- **WLC Integration Status:** If WLC integration is enabled, the system obtains data from the configured WLCs, which are individually enabled.

➢ If you select **WLC Integration Enabled**, you can configure **Automatic Synchronization Settings**. The system ***disables*** WLC by default. However, automatically ***enables*** WLC Integration when you add a new WLC.

➢ **Current Status**: Displays the **Current Status** of the WLC: ***Running*** or ***Stopped***. An ***Error*** status is shown in one of the following cases:

❖ One of the configured and enabled WLCs has a hostname, which cannot be resolved

❖ One of the configured and enabled WLCs is not reachable

❖ System server is stopped

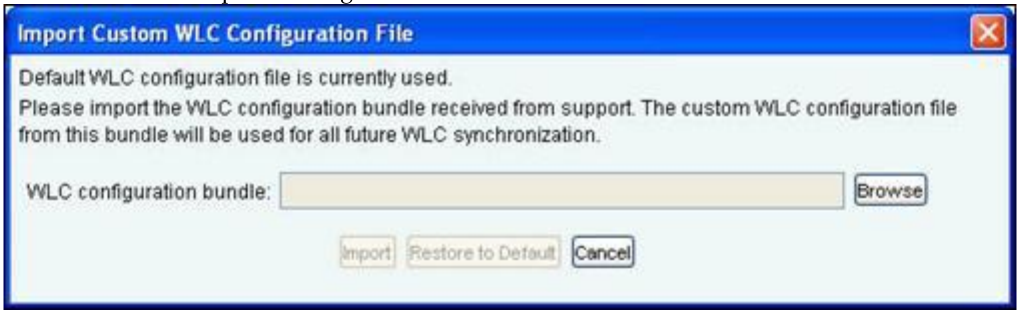
❖ Internal error, in which case you need to contact Technical Support

➢ **Imported APs:** This percentage indicates total number of APs imported from WLC(s) as a fraction of maximum allowed. The maximum allowed depends on type of appliance. The status displayed is as of the last synchronization event. It is recommended that the utilization remains below 80%. If the utilization exceeds 80%,the system performance may degrade and result in side effects such as sluggish UI and sensor disconnections.

- Under **Automatic Synchronization Settings**, select the System-WLC synchronization interval.

➢ **Synchronization Interval (Minutes)**: Specifies the interval for which the server synchronizes with the WLC (Minimum: 15 minutes; Maximum: 60 minutes; Default: 30 minutes)

➢ If the customer has some Lightweight Access Points (LAPs) whose type (like ap1030, ap1130) is not supported by SGE, then these LAPs can be supported by importing the WLC configuration bundle received from the AirTight Support on request. After the bundle is received, click **<Advanced Configuration>** The **Import Custom WLC Configuration File** dialog appears. The custom WLC configuration file from this bundle is used for all future WLC synchronization. The bundle is imported as .tgz.



Import Custom WLC Configuration File

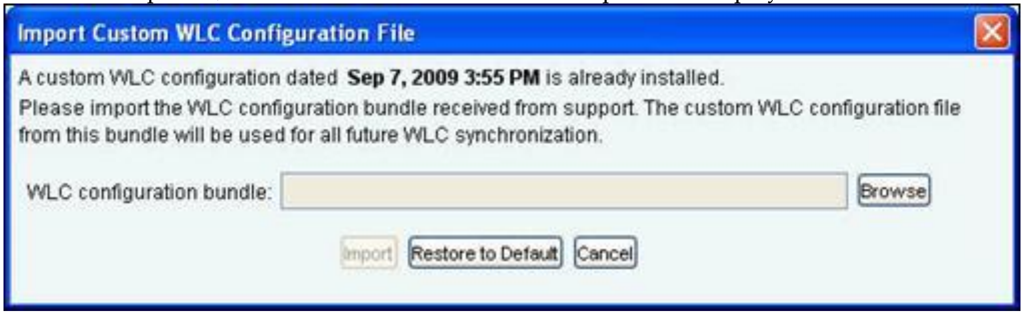
Default WLC configuration file is currently used.

Please import the WLC configuration bundle received from support. The custom WLC configuration file from this bundle will be used for all future WLC synchronization.

WLC configuration bundle:

Import Custom WLC Configuration File Dialog

Click Browse to specify the appropriate location of the WLC Configuration bundle and click <Import>, a progress bar appears. After the file is imported, the date and time when file was imported is displayed as in the screen.



Import Custom WLC Configuration File

A custom WLC configuration dated **Sep 7, 2009 3:55 PM** is already installed.

Please import the WLC configuration bundle received from support. The custom WLC configuration file from this bundle will be used for all future WLC synchronization.

WLC configuration bundle:

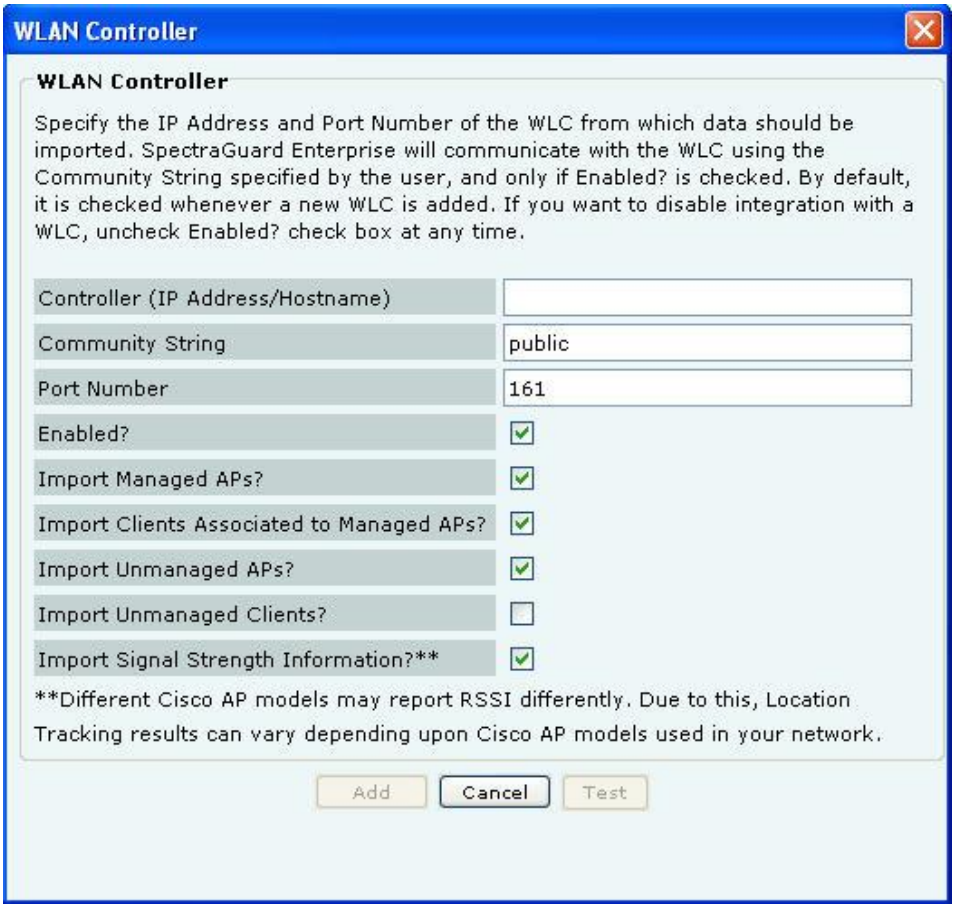
Import Custom WLC Configuration File Dialog showing date and time of the file imported

If the file is not imported for some reason or if the file is corrupted, an error message is displayed.

***Note:** Only the Super User is allowed to import WLC configuration file. All other users, including the administrator has only the viewing rights.*

Adding a WLAN Controller

•□□Under Wireless LAN Controllers, click <Add> to open WLAN Controller dialog where you can add WLC details.



WLAN Controller

Specify the IP Address and Port Number of the WLC from which data should be imported. SpectraGuard Enterprise will communicate with the WLC using the Community String specified by the user, and only if Enabled? is checked. By default, it is checked whenever a new WLC is added. If you want to disable integration with a WLC, uncheck Enabled? check box at any time.

Controller (IP Address/Hostname)	
Community String	public
Port Number	161
Enabled?	☑
Import Managed APs?	☑
Import Clients Associated to Managed APs?	☑
Import Unmanaged APs?	☑
Import Unmanaged Clients?	□
Import Signal Strength Information?**	☑

**Different Cisco AP models may report RSSI differently. Due to this, Location Tracking results can vary depending upon Cisco AP models used in your network.

WLAN Controller Dialog

WLAN Controller contains the following fields:

- **Controller (IP Address/Hostname):** Specifies the IP address or the hostname of the WLC with which the system communicates.

Note*: Configured WLCs will use the DNS names and DNS suffixes configured by the user in the Server Initialization and Setup Wizard on the Config Shell.*

- **Community String**: Specifies the user defined community string using which the system communicates with the WLC.
(Default: public)
- **Port Number:** Specifies the port number of the WLC from which data is imported.
(Default: 161)
- **Enabled?:** Indicates if the WLC is enabled to communicate with the system.
(Default: Enabled)
- **Import Managed APs?:** Indicates if WLC managed APs managed are to be imported into the system.
(Default: Enabled)
- **Import Clients Associated to Managed APs?:** Indicates if Clients associated to APs managed by a WLC are to be imported into the system.
(Default: Enabled)
- **Import Unmanaged APs?:** Indicates if APs not managed by a WLC are to be imported into the system.
(Default: Enabled)
- **Import Unmanaged Clients?:** Indicates if Clients associated with APs not managed by a WLC are to be imported into the system.

(Default: Disabled)

➢ **Import Signal Strength Information?:** Indicates if the signal strength of the managed devices is to be imported into the system.
(Default: Enabled)

Note: *Location Tracking results may vary depending on the Channel scan settings set on the WLC.*

Click <Add> to add the details for a new WLC. Click <Test> to confirm the validity of IP Address/Hostname, SNMP settings, and version compatibility of the newly added Lwapp Controller.

Editing a WLAN Controller

Double-click a row or click **Edit** to open an LWAPP Configuration dialog similar to the one shown above, to update the WLC details. Click <Save> to save all settings.

Deleting a WLAN Controller

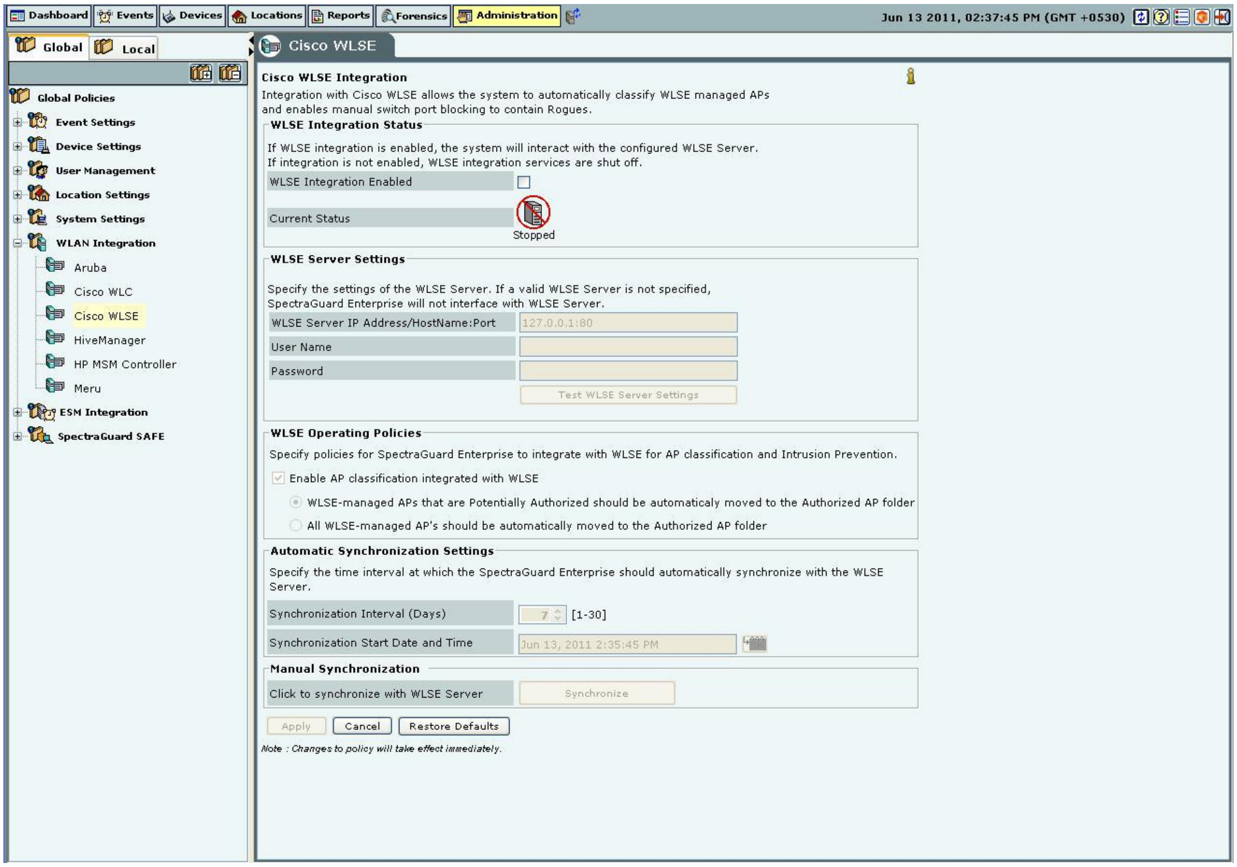
Select a row and click **Delete** to discard the details of an existing WLC. You can delete multiple WLC details using click-and-drag or using the <Shift> + <Down Arrow> keys and then clicking **Delete**.

Note: *From 6.2 release onwards, WLC will support the* ***H-REAP*** *mode along with the* ***Local*** *mode.*

Integration with Cisco WLSE

Wireless LAN Solution Engine (WLSE) is a centralized, systems-level application that manages and controls an entire Cisco AirTight WLAN infrastructure. WLSE eases Cisco's WLAN deployments, enhances network security, maximizes network availability, and reduces operating expenses.

Integration with **Cisco WLSE** allows the system to automatically classify WLSE managed APs and enables manual switch port blocking to contain ***Rogue*** APs.



Cisco WLSE Integration

Integration with Cisco WLSE allows the system to automatically classify WLSE managed APs and enables manual switch port blocking to contain Rogues.

WLSE Integration Status

If WLSE integration is enabled, the system will interact with the configured WLSE Server.
If integration is not enabled, WLSE integration services are shut off.

WLSE Integration Enabled	□
Current Status	Stopped

WLSE Server Settings

Specify the settings of the WLSE Server. If a valid WLSE Server is not specified, SpectraGuard Enterprise will not interface with WLSE Server.

WLSE Server IP Address/HostName:Port	127.0.0.1:80
User Name	
Password	

Test WLSE Server Settings

WLSE Operating Policies

Specify policies for SpectraGuard Enterprise to integrate with WLSE for AP classification and Intrusion Prevention.

☑ Enable AP classification integrated with WLSE

● WLSE-managed APs that are Potentially Authorized should be automaticaly moved to the Authorized AP folder

○ All WLSE-managed AP's should be automatically moved to the Authorized AP folder

Automatic Synchronization Settings

Specify the time interval at which the SpectraGuard Enterprise should automatically synchronize with the WLSE Server.

Synchronization Interval (Days)	7 [1-30]
Synchronization Start Date and Time	Jun 13, 2011 2:35:45 PM

Manual Synchronization

Click to synchronize with WLSE Server	Synchronize

Apply Cancel Restore Defaults

Note : Changes to policy will take effect immediately.

Cisco WLSE

- **WLSE Integration Status:** If WLSE integration is enabled, the system interacts with the configured WLSE server. Else, WLSE integration services are shut off.
  - ➢ If you select **WLSE Integration Enabled**, you can configure the following **WLSE Server Settings**. The system ***disables*** WLSE by default.
  - ➢ **Current Status**: Displays the **Current Status** of the WLSE server: ***Running*** or ***Stopped***.
- **WLSE Server Settings:** If a valid WLSE server is not specified, the system does not interface with the WLSE Server.
  - ➢ **WLSE Server IP Address/Hostname: Port**: Specifies the IP address or the name and the port number of the WLSE server
  - ➢ **Username**: Specifies the username for the WLSE server
  - ➢ **Password**: Specifies the password for the WLSE server

To test the WLSE server settings, click <**Test WLSE Server Settings**>. The settings used for this test are those that you have specified. A dialog appears on completion of the test.

Note: The user created for the system should have XML API privileges on the WLSE server. You should add the IP address of the server to the Access Control List of the WLSE server.

- **WLSE Operating Policies:** Specifies policies to integrate the system with the WLSE server.

➢ If you select **Enable AP Classification integrated with WLSE**, you can integrate the system's AP Classification and Intrusion Prevention policies with the WLSE sever such that:

❖ WLSE-managed APs that are Potentially Authorized automatically move to the Authorized AP folder

❖ All WLSE-managed APs automatically move to the Authorized AP folder

***Note:** When you select the option **All WLSE-managed APs automatically move to the Authorized AP folder** and connect a Rogue AP to the network, the port to which the AP is connected is **not** blocked. This is a limitation of the WLSE API. In other words, the WLSE API provides only tracing functionality and not shutdown functionality.*

- **Automatic Synchronization Settings:** Specifies the interval at which the server should automatically synchronize with the WLSE server.

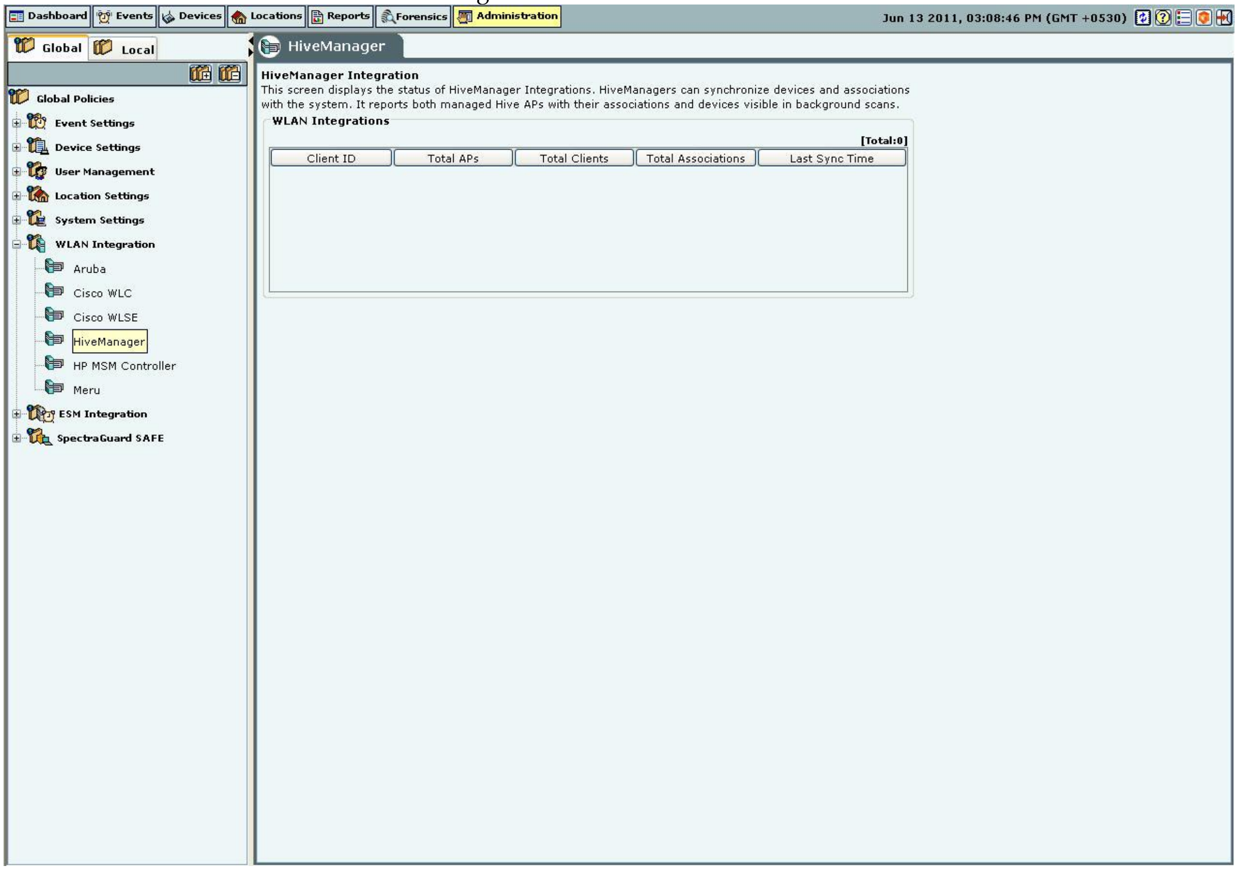
➢ **Synchronization Interval (Days)**: Specifies the number of days: that is, the interval for which the server synchronizes with the WLSE server.
(Minimum: 1 day; Maximum: 30 days; Default: 7 Days)

➢ **Synchronization Start Date and Time**: Specifies the start date and time for the synchronization interval.
(Default: Current Date and Time)

- **Manual Synchronization:** Click <**Synchronize**> to manually synchronize the server with the WLSE server.

HiveManager

HiveManagers can synchronize devices and associations with the system. It reports both managed Hive APs with their associations and devices visible in background scans.



HiveManager Integration

This screen displays the status of HiveManager Integrations. HiveManagers can synchronize devices and associations with the system. It reports both managed Hive APs with their associations and devices visible in background scans.

WLAN Integrations

[Total:0]

Client ID	Total APs	Total Clients	Total Associations	Last Sync Time

HiveManager

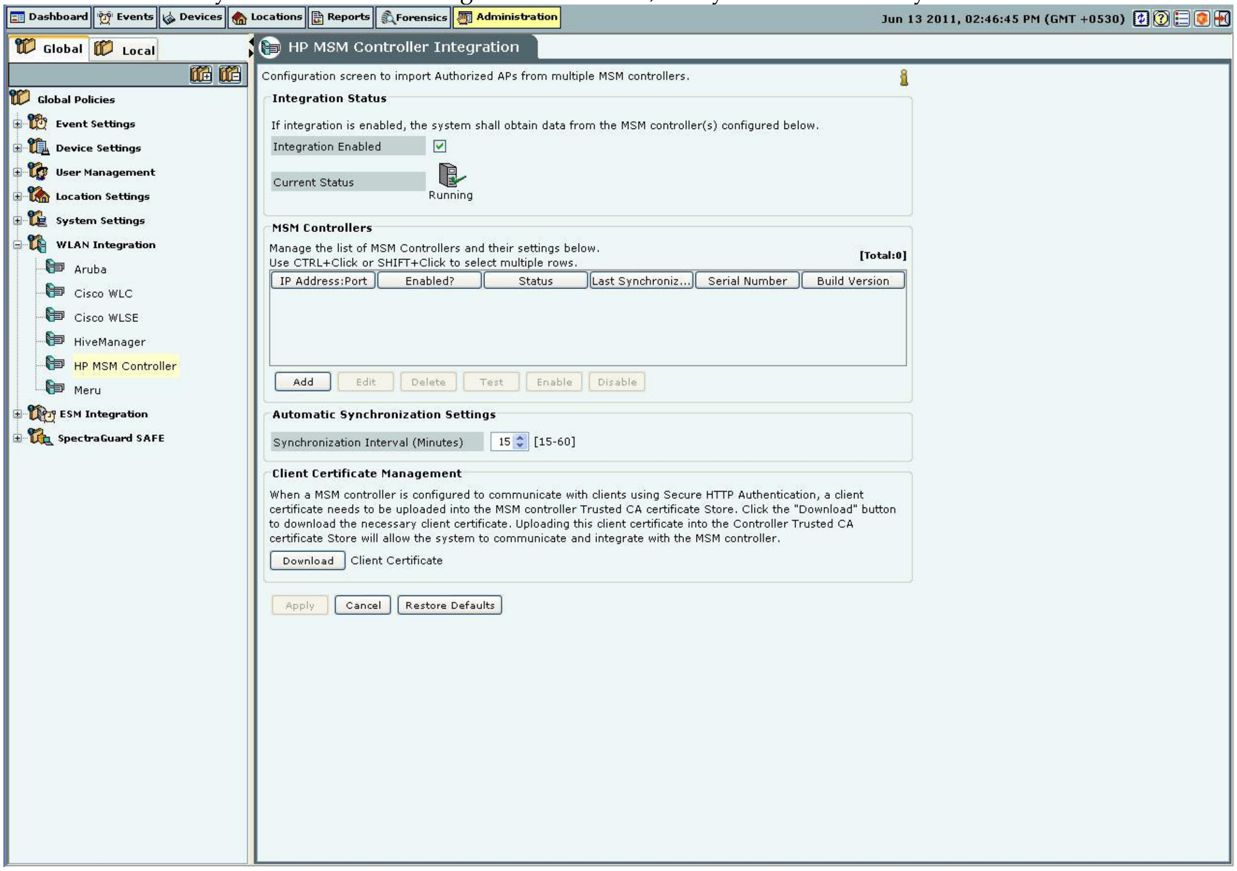
WLAN Integrations displays the status of the HiveManager:

- **Client ID:** Displays the Unique Integration Identifier of the HiveManager
- **Total APs:** Displays the total number of import AP calls made by the HiveManager
- **Total Clients:** Displays the total number of import Client calls made by the HiveManager
- **Total Associations:** Displays the total number of AP-Client Association import calls made by the HiveManager
- **Last Sync Time:** Displays the date and time of the last call made by the HiveManager

***Note:** **Total** gives the total number of HiveManagers.*

HP MSM Controller

The HP MSM Controller manages a collection of thin APs. The HP MSM architecture consists of MSM Controllers and the APs that are managed by these controllers. Integration with HP MSM Controller allows the system to fetch information about Synchronized APs. Using this information, the system automatically classifies these devices.



Configuration screen to import Authorized APs from multiple MSM controllers.

Integration Status

If integration is enabled, the system shall obtain data from the MSM controller(s) configured below.

Integration Enabled ☑

Current Status: Running

MSM Controllers

Manage the list of MSM Controllers and their settings below.
Use CTRL+Click or SHIFT+Click to select multiple rows. [Total:0]

IP Address:Port	Enabled?	Status	Last Synchroniz...	Serial Number	Build Version

Automatic Synchronization Settings

Synchronization Interval (Minutes) 15 [15-60]

Client Certificate Management

When a MSM controller is configured to communicate with clients using Secure HTTP Authentication, a client certificate needs to be uploaded into the MSM controller Trusted CA certificate Store. Click the "Download" button to download the necessary client certificate. Uploading this client certificate into the Controller Trusted CA certificate Store will allow the system to communicate and integrate with the MSM controller.

Download Client Certificate

HP MSM Controller Integration

Important: *The system supports HP MSM Controller version* ***5.4.2*** *or higher.*

Integration Status: Enabling the MSM Controller integration allows the system to obtain data from the configured controllers. Enabling / Disabling individual controllers is also possible.

➢ Selecting **Integration Enabled** enables integration for all configured controllers.

➢ **Current Status**: Displays ***Running*** if Integration is enabled. Displays ***Stopped*** if controller integration is switched off. The Status field for each individual controller displays ***Error*** if

❖ One of the configured and enabled MSM Controllers has a hostname which cannot be resolved

❖ One of the configured and enabled MSM Controllers is not reachable

❖ System server is stopped

❖ Internal error (Contact Technical Support)

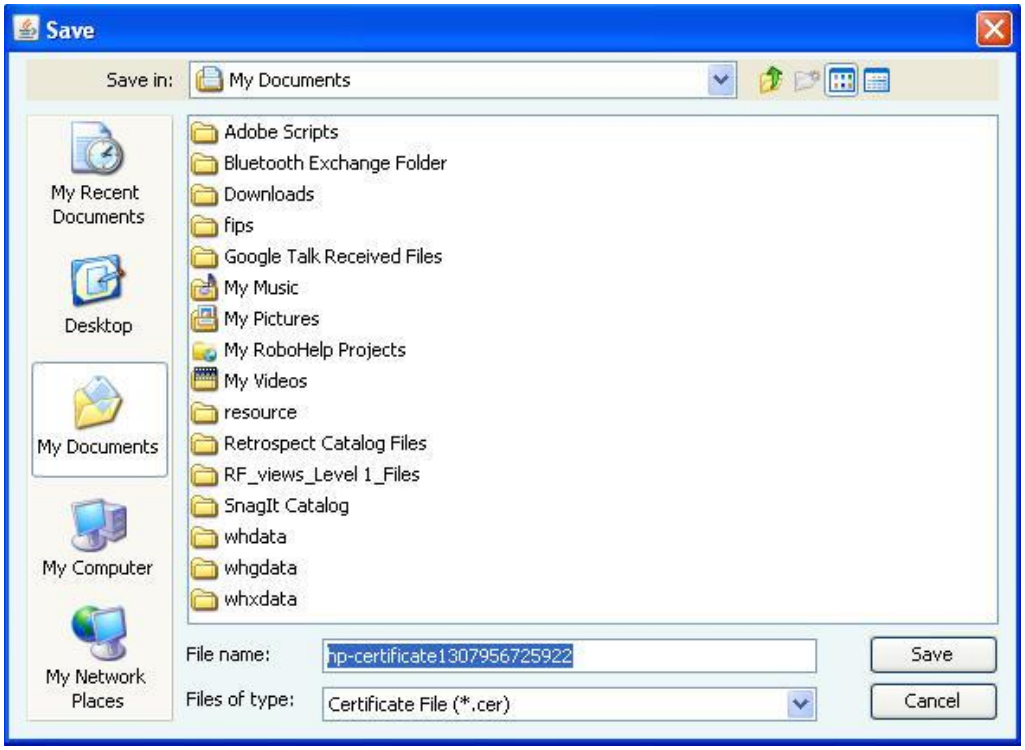
Under **Automatic Synchronization Settings**, select the System synchronization interval.

➢ **Synchronization Interval (Minutes)**: Specifies the interval after which the server synchronizes with the MSM Controller.

(Minimum: 15 minutes; Maximum: 60 minutes; Default: 15 minutes)

Client Certificate Management: When the MSM Controller is configured to communicate with Client programs using Secure HTTP and Client Authentication, a Client Certificate is uploaded into the MSM Controller's Trusted CA

Certificate Store. Click **Download** to download a pre-generated Client Certificate for the system. Following figure displays the dialog box that appears on clicking the **Download** button.



Save in: My Documents

File name: hp-certificate1307956725922

Files of type: Certificate File (*.cer)

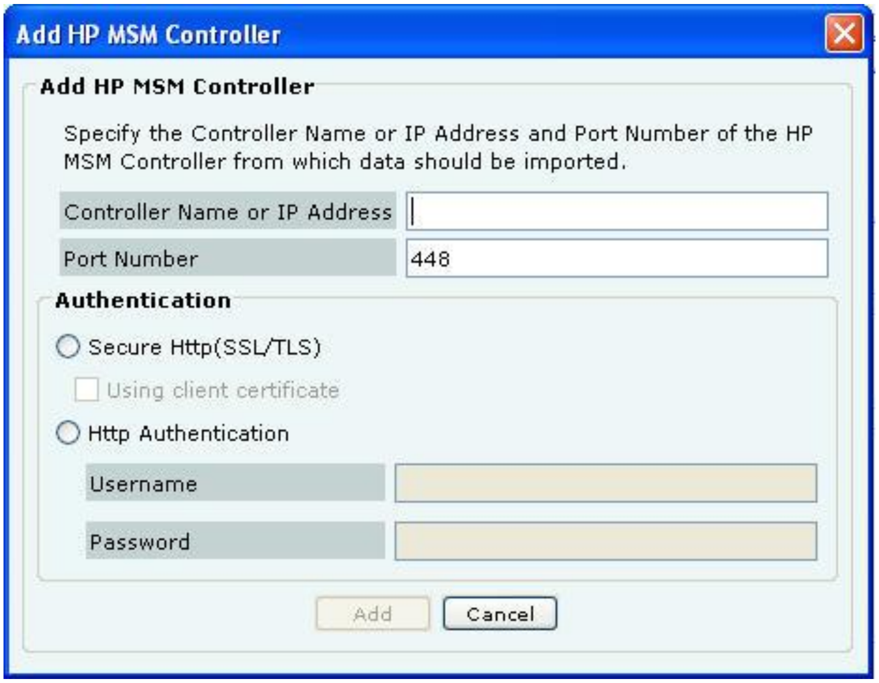
Client Certificate Download Dialog

Click **Save** to download and save the Client Certificate to the appropriate directory.
Upload this Client Certificate into the MSM Controller's Trusted CA Certificate Store using its management tool. The system is now setup and ready to communicate with the MSM Controller.

***Note**: To customize the Client Certificate refer to the CLI commands: **get msmcontroller cert**, **get msmcontroller certreq**, and **set msmcontroller cert** as described in Config Shell Commands in the Installation guide.*

Adding an HP MSM Controller

Under MSM Controllers, click Add to configure an MSM Controller for integration. The following figure displays the **Add HP MSM Controller** dialog.



Add HP MSM Controller

Add HP MSM Controller

Specify the Controller Name or IP Address and Port Number of the HP MSM Controller from which data should be imported.

Controller Name or IP Address	
Port Number	448

Authentication

○ Secure Http(SSL/TLS)

□ Using client certificate

○ Http Authentication

Username	
Password	

Add HP MSM Controller Dialog

HP MSM Controller contains the following fields:

- **Controller Name or IP Address:** Specifies the Controller Name or IP address of the HP MSM Controller with which the system communicates.
- **Port Number:** Specifies the port number of the HP MSM Controller from which data is imported.

(Default: 448)

Authentication:

- **Secure Http (SSL/TLS):** Select this option if the MSM Controller is configured to use HTTPS for authentication. In addition, if the MSM Controller is setup to use Client Authentication, ensure that the System's Client Certificate is uploaded into the MSM Controller's Trusted CA Certificate Store.
- **Http Authentication:** If enabled, specifies whether the HP MSM Controller requires Http authentication
    - **Username:** Specifies the user name for HP MSM Controller authentication
    - **Password:** Specifies the password for HP MSM Controller authentication

Click the **Add** button to save the details for a new HP MSM Controller.

Editing an HP MSM Controller

Double-click a row or click Edit to open an HP MSM Controller dialog similar to the one shown above, to update the HP MSM Controller details. Click Save to save all settings.

Deleting an HP MSM Controller

Select a row and click Delete to discard the details of an existing HP MSM Controller. You can delete multiple HP MSM Controller details using click-and-drag or using the <Shift> + <Down Arrow> keys and then clicking Delete.

Enabling an HP MSM Controller

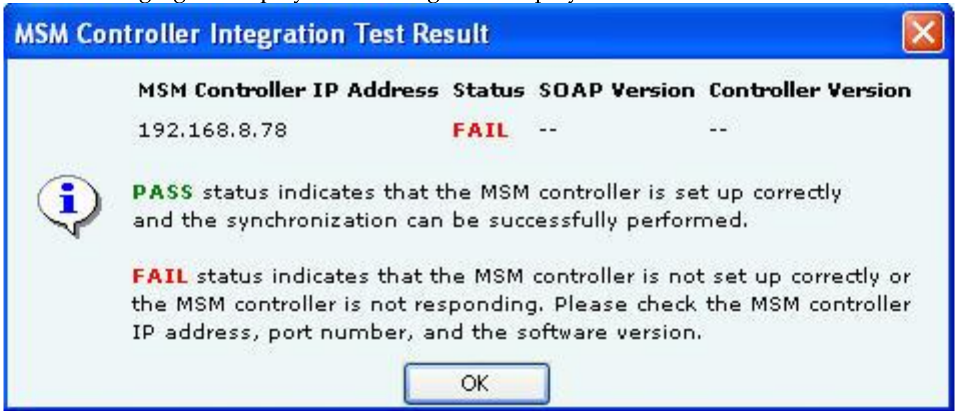
Select a row and click Enable to enable the selected HP MSM Controller. You can enable multiple HP MSM Controller details using click-and-drag or using the <Shift> + <Down Arrow> keys and then clicking Enable.

Disabling an HP MSM Controller

Select a row and click Disable to disable the selected HP MSM Controller. You can disable multiple HP MSM Controller details using click-and-drag or using the <Shift> + <Down Arrow> keys and then clicking Disable.

Checking configuration status of an HP MSM Controller

Select a MSM Controller row under **MSM Controllers** and click the **Test** button.
The System will return *Pass* status if the HP MSM Controller has been correctly configured.
The System will return *Fail* status if the HP MSM Controller has been not been correctly configured.
The following figure displays the message box displayed on evaluation of the HP MSM Controller setup.



MSM Controller Integration Test Result

MSM Controller IP Address	Status	SOAP Version	Controller Version
192.168.8.78	FAIL	--	--

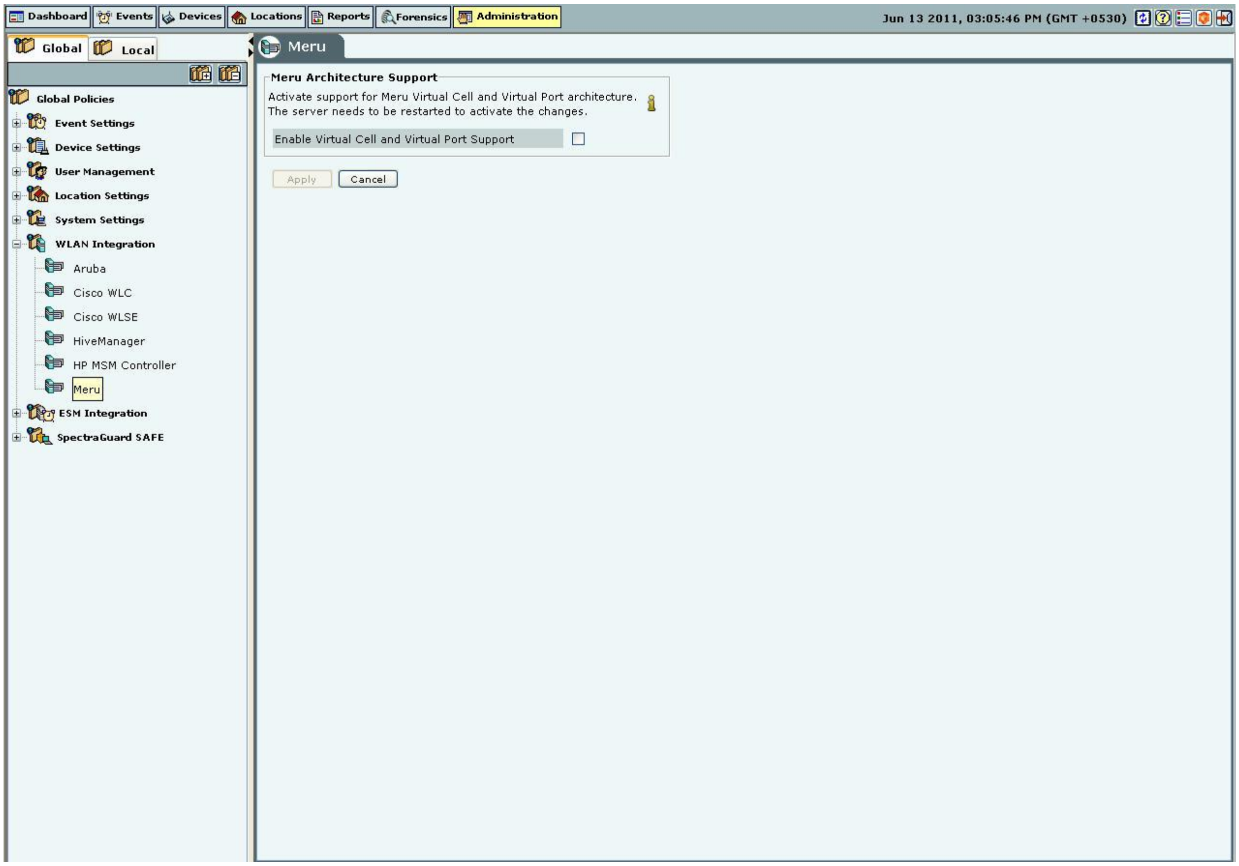
PASS status indicates that the MSM controller is set up correctly and the synchronization can be successfully performed.

FAIL status indicates that the MSM controller is not set up correctly or the MSM controller is not responding. Please check the MSM controller IP address, port number, and the software version.

MSM Controller Integration Test Result

Meru

Meru Integration enables the system to use Virtual Cell and Virtual Port Architecture for reporting accurate AP inventory. System also detects the physical APs to which the Clients are associated. This helps the user for accurate location tracking and to protect against advanced threats.



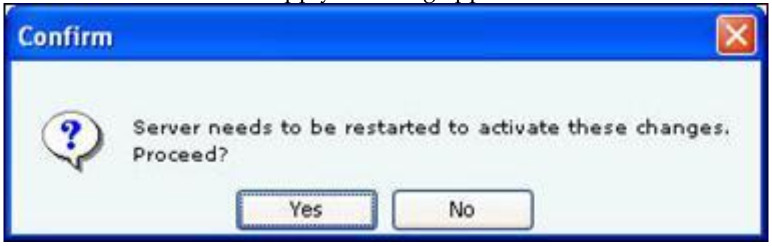
Meru Architecture Support

Activate support for Meru Virtual Cell and Virtual Port architecture. The server needs to be restarted to activate the changes.

Enable Virtual Cell and Virtual Port Support □

Meru

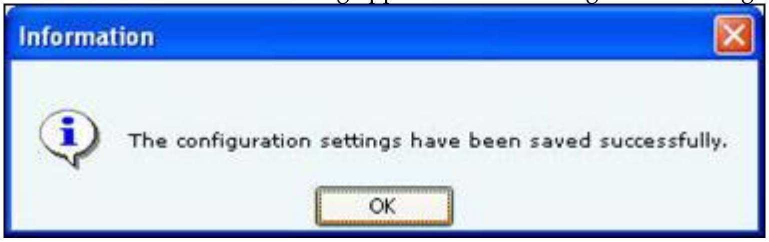
Select Enable Virtual Cell and Virtual Port Support check box to activate support for Meru Virtual Cell and Virtual Port architecture. Click <Apply> a dialog appears to restart the server to activate the changes.



Server needs to be restarted to activate these changes. Proceed?

Server restart dialog

Click **Yes.** A confirmation dialog appears that the configuration settings have been saved successfully.



The configuration settings have been saved successfully.

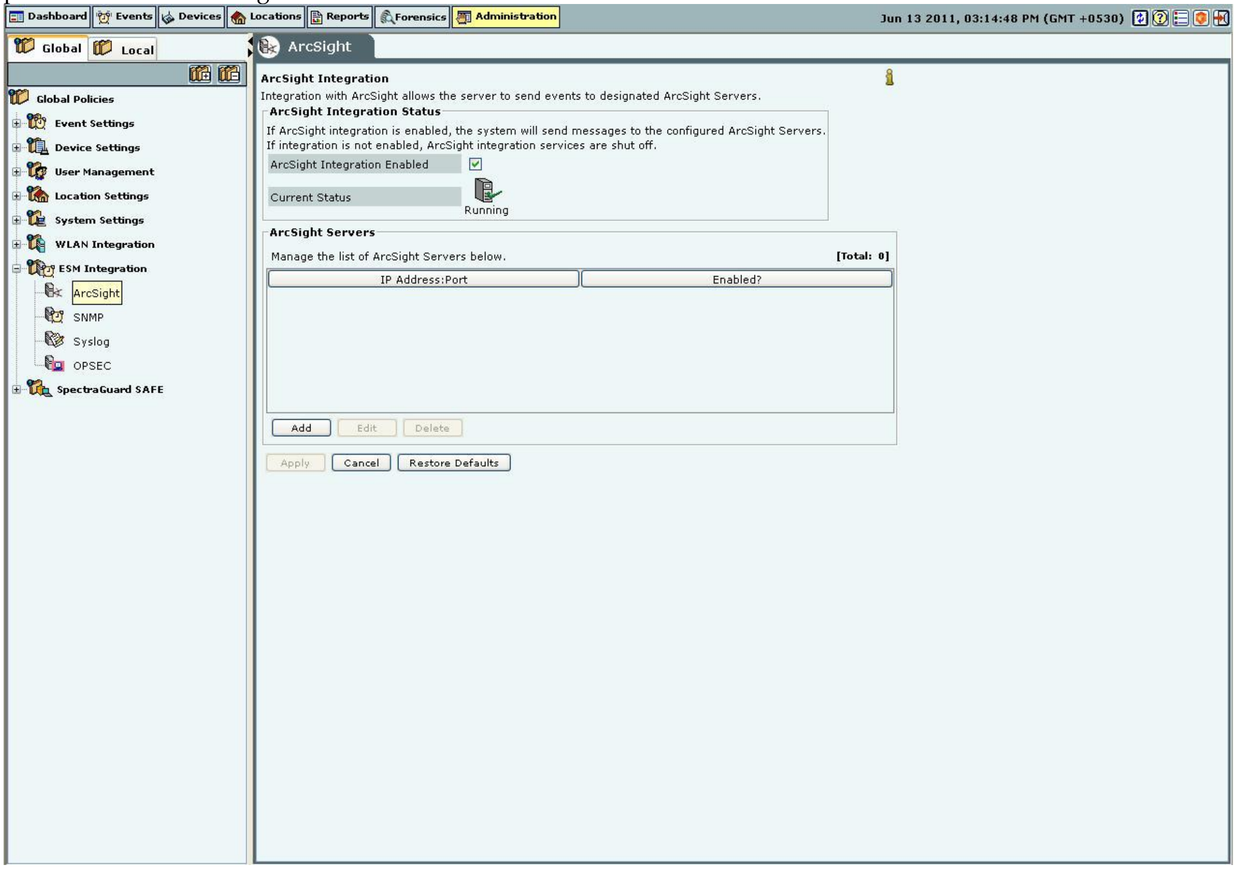
Confirmation dialog

ESM Integration

ArcSight ESM Server

The Enterprise Security Management (ESM) Integration screen allows configuration of various ESM integrations that collect, analyze, and display events.

The system integrates with ArcSight's Enterprise Security Management (ESM) infrastructure by sending events to the designated ArcSight server. The ArcSight server is configured to accept syslog messages having detailed event information in ArcSight's Common Event Format (CEF). The system needs the IP Address or the hostname and the port on which the ArcSight server receives events.



ArcSight Integration

Integration with ArcSight allows the server to send events to designated ArcSight Servers.

ArcSight Integration Status

If ArcSight integration is enabled, the system will send messages to the configured ArcSight Servers.
If integration is not enabled, ArcSight integration services are shut off.

ArcSight Integration Enabled ☑

Current Status Running

ArcSight Servers

Manage the list of ArcSight Servers below. [Total: 0]

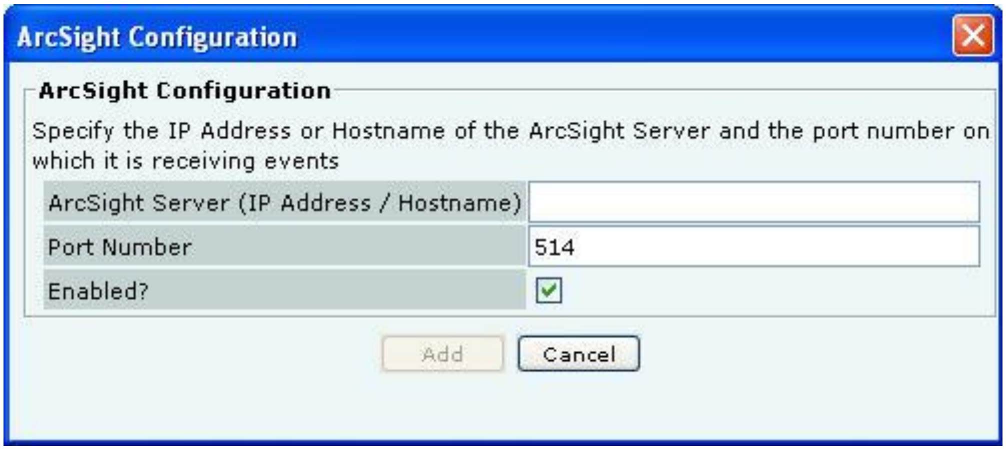
IP Address:Port	Enabled?

ArcSight ESM Server

- **ArcSight Integration Status:** If ArcSight integration is enabled, the system sends messages to the configured ArcSight servers. Otherwise, ArcSight integration services are shut off.
  - If you select **ArcSight Integration Enabled**, you can manage ArcSight servers. The system ***enables*** ArcSight Integration by default.
  - **Current Status**: Displays the **Current Status** of the ArcSight Integration: ***Running*** or ***Stopped***. An ***Error*** status is shown in one of the following cases:
    - One of the configured and enabled ArcSight servers has a hostname, which cannot be resolved
    - System server is stopped
    - Internal error, in which case you need to contact Technical Support

Adding an ArcSight Server

- Under **ArcSight Servers**, click <**Add**>to open to **ArcSight Configuration** dialog where you can add ArcSight server details.



ArcSight Configuration

Specify the IP Address or Hostname of the ArcSight Server and the port number on which it is receiving events

ArcSight Server (IP Address / Hostname)	
Port Number	514
Enabled?	☑

ArcSight Configuration Dialog

ArcSight Configuration dialog contains the following fields:

- **ArcSight Server (IP Address/Hostname):** Specifies the IP Address or the hostname of the destination ArcSight server to which the CEF formatted messages are sent.

Note: *Configured ArcSight servers will use the DNS names and DNS suffixes configured by the user in the Server Initialization and Setup Wizard on the Config Shell.*

- **Port Number:** Specifies the port number of the ArcSight server to which the system should send CEF messages.
- **Enabled?:** If the checkbox is selected, the system sends CEF messages to the configured and enabled ArcSight servers. The delivery of the CEF messages cannot be guaranteed due to use of UDP/unreliable transport.

(Default: Enabled)

Click **Add** to add the details for a new ArcSight server.

Editing an ArcSight Server

Double-click a row or click **Edit** to open ArcSight Configuration dialog similar to the one shown above. Click **Save** to save all settings.

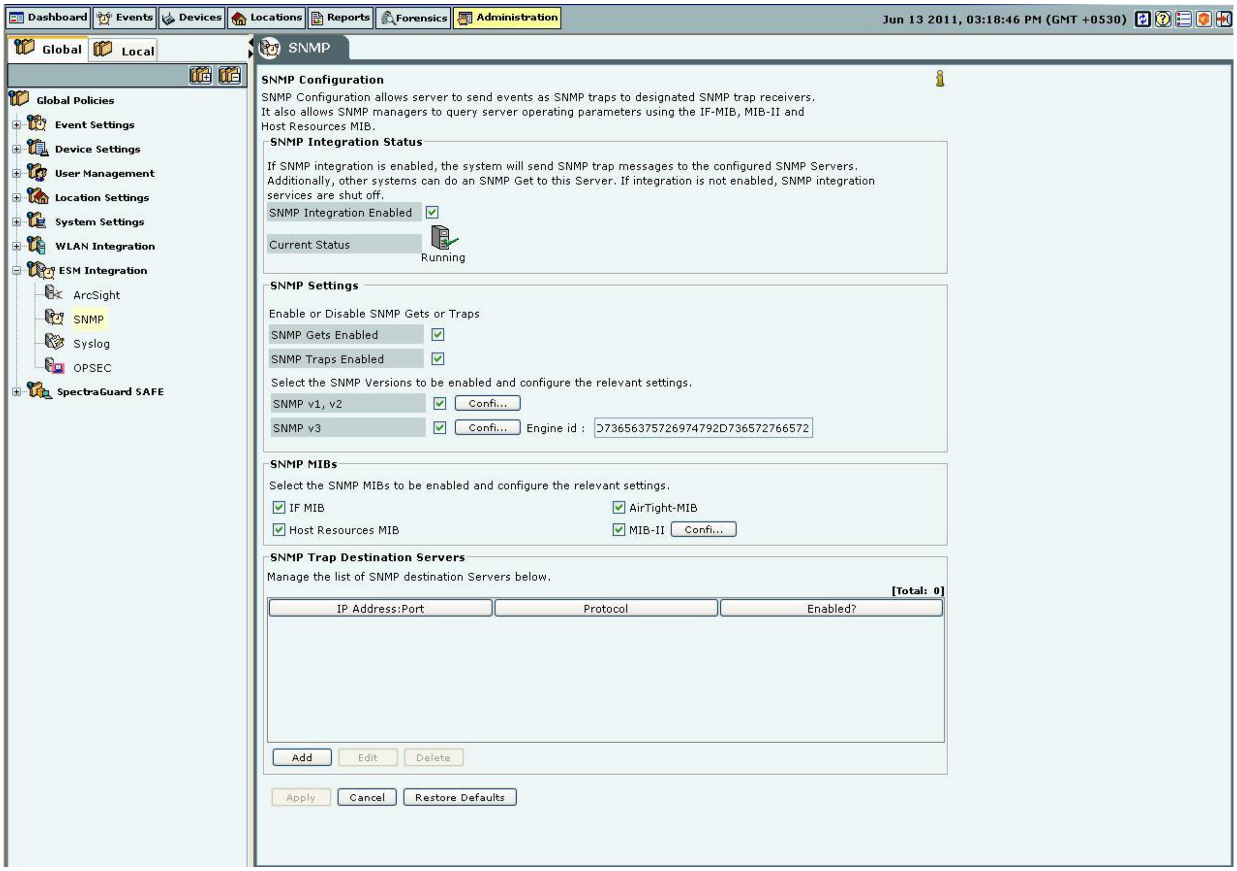
Deleting an ArcSight Server

Select a row and click **Delete** to discard the configuration of the selected ArcSight server. You can delete multiple ArcSight server details using click-and-drag or using the <Shift> + <Down Arrow> keys and then clicking **Delete**.

Note: Total *gives the total number of ArcSight servers configured to receive events from the system.*

SNMP

The **SNMP** dialog enables the system to send events as SNMP traps to designated SNMP trap receivers. It also allows SNMP managers to query server operating parameters using IF-MIB, MIB-II, and Host Resources MIB.



SNMP Configuration

SNMP Configuration allows server to send events as SNMP traps to designated SNMP trap receivers. It also allows SNMP managers to query server operating parameters using the IF-MIB, MIB-II and Host Resources MIB.

SNMP Integration Status

If SNMP integration is enabled, the system will send SNMP trap messages to the configured SNMP Servers. Additionally, other systems can do an SNMP Get to this Server. If integration is not enabled, SNMP integration services are shut off.

SNMP Integration Enabled ☑

Current Status: Running

SNMP Settings

Enable or Disable SNMP Gets or Traps

SNMP Gets Enabled ☑

SNMP Traps Enabled ☑

Select the SNMP Versions to be enabled and configure the relevant settings.

SNMP v1, v2 ☑

SNMP v3 ☑ Engine id : Ɔ736563757269747 92D736572766572

SNMP MIBs

Select the SNMP MIBs to be enabled and configure the relevant settings.

☑ IF MIB ☑ AirTight-MIB

☑ Host Resources MIB ☑ MIB-II

SNMP Trap Destination Servers

Manage the list of SNMP destination Servers below.

[Total: 0]

IP Address:Port	Protocol	Enabled?

SNMP

- **SNMP Integration Status:** If SNMP integration is enabled, the system sends SNMP traps to the configured SNMP servers. Other systems can do an **SNMP Get** to this server. Otherwise, SNMP integration services are shut off.

➢ If you select **SNMP Integration Enabled**, you can edit and manage SNMP server details. The system ***enables*** SNMP by default.

➢ **Current Status**: Displays the **Current Status** of the SNMP server: ***Running*** or ***Stopped***. An ***Error*** status is shown in one of the following cases:

❖ System server is stopped

❖ Internal error, in which case you need to contact Technical Support

- Under **SNMP Settings**, configure SNMP Gets or Traps.

➢ **SNMP Gets Enabled**: Allows SNMP managers to query server-operating parameters enlisted in IF-MIB, MIB-II, and Host Resources MIB. You can block queries related to all of the above listed MIBs by de-selecting the checkbox.

➢ **SNMP Traps Enabled**: Allows SNMP traps to be sent to configured SNMP servers.

Additionally, select the SNMP versions to be enabled and configure the relevant settings. The SNMP agent residing on the server uses the SNMP version parameters to deliver traps to the SNMP Trap receivers.

➢ **SNMP v1, v2**: If selected, traps are sent to all Trap receivers accepting traps using SNMP v1, v2 protocol. You can change the **Community String** for the SNMP agent. All SNMP v1, v2 Trap receivers configured, should use this community string to receive traps.

(Default: public)

➢ **SNMP v3**: If selected, traps are sent to all Trap receivers accepting traps using SNMP v3 protocol. You can change the **Username** and **Password** for the SNMP agent. All SNMP v3 Trap receivers configured, should use these parameters to receive traps. The **Engine ID** field is un-editable.

(Default Username: admin; Default Password: password)

- Under **SNMP MIBs**, you can choose to query by enabling or disabling the following SNMP MIBs individually.

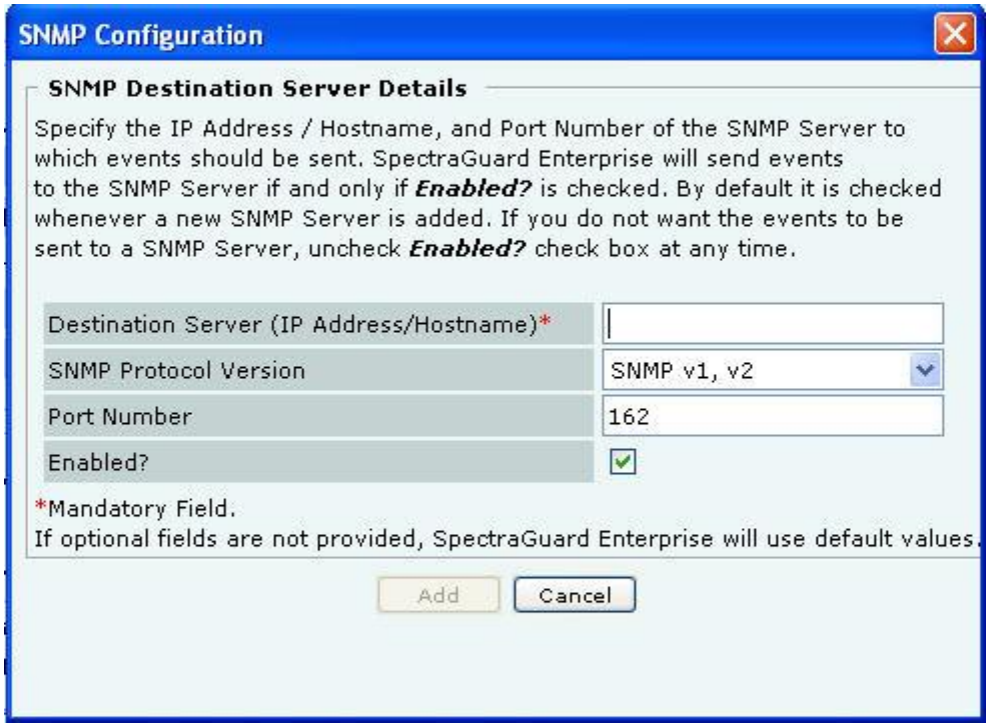
- IF MIB
- Host Resources MIB
- AirTight-MIB: If selected, the system enables the external SNMP Trap receivers to receive traps
- MIB-II: If selected, configure the **System Contact**, **System Name**, and **System Location**.

(Default System Name: Wi-Fi Security Sever)

Note*: IF MIB, Host Resources MIB, an MIB II are standard MIBs that you can download from the Internet. For AirTight-MIB, contact AirTight Technical Support.*

Adding a SNMP Trap Destination Server

- Under SNMP Trap Destination Servers, click Add to open SNMP Configuration dialog where you can add SNMP server details.



SNMP Configuration

SNMP Destination Server Details

Specify the IP Address / Hostname, and Port Number of the SNMP Server to which events should be sent. SpectraGuard Enterprise will send events to the SNMP Server if and only if ***Enabled?*** is checked. By default it is checked whenever a new SNMP Server is added. If you do not want the events to be sent to a SNMP Server, uncheck ***Enabled?*** check box at any time.

Destination Server (IP Address/Hostname)*	
SNMP Protocol Version	SNMP v1, v2
Port Number	162
Enabled?	☑

*Mandatory Field.
If optional fields are not provided, SpectraGuard Enterprise will use default values.

Add SNMP Configuration Dialog

Trap Destination Details contains the following fields:

- **Destination Server (IP Address/Hostname):** Specifies the IP address or the hostname of the SNMP server to which events should be sent.

Note*: Configured SNMP servers will use the DNS names and DNS suffixes configured by the user in the Server Initialization and Setup Wizard on the Config Shell.*

- **SNMP Protocol Version:** Specifies the SNMP protocol version for the SNMP agent.

(Default: SNMP v1, v2)

- **Port Number:** Specifies the port number on the receiving system to which the SNMP trap is sent.

(Default: 162)

- **Enabled?:** Specifies if the SNMP server is enabled to receive SNMP traps.

(Default: Enabled)

Note*: You must specify a different port number if another application uses the default port.*

Click **Add** to add the details for a new SNMP server.

Editing a SNMP Trap Destination Server

Double-click a row or click **Edit** to open SNMP Configuration dialog similar to the one shown above to update the SNMP server details. Click **Save** to save all settings.

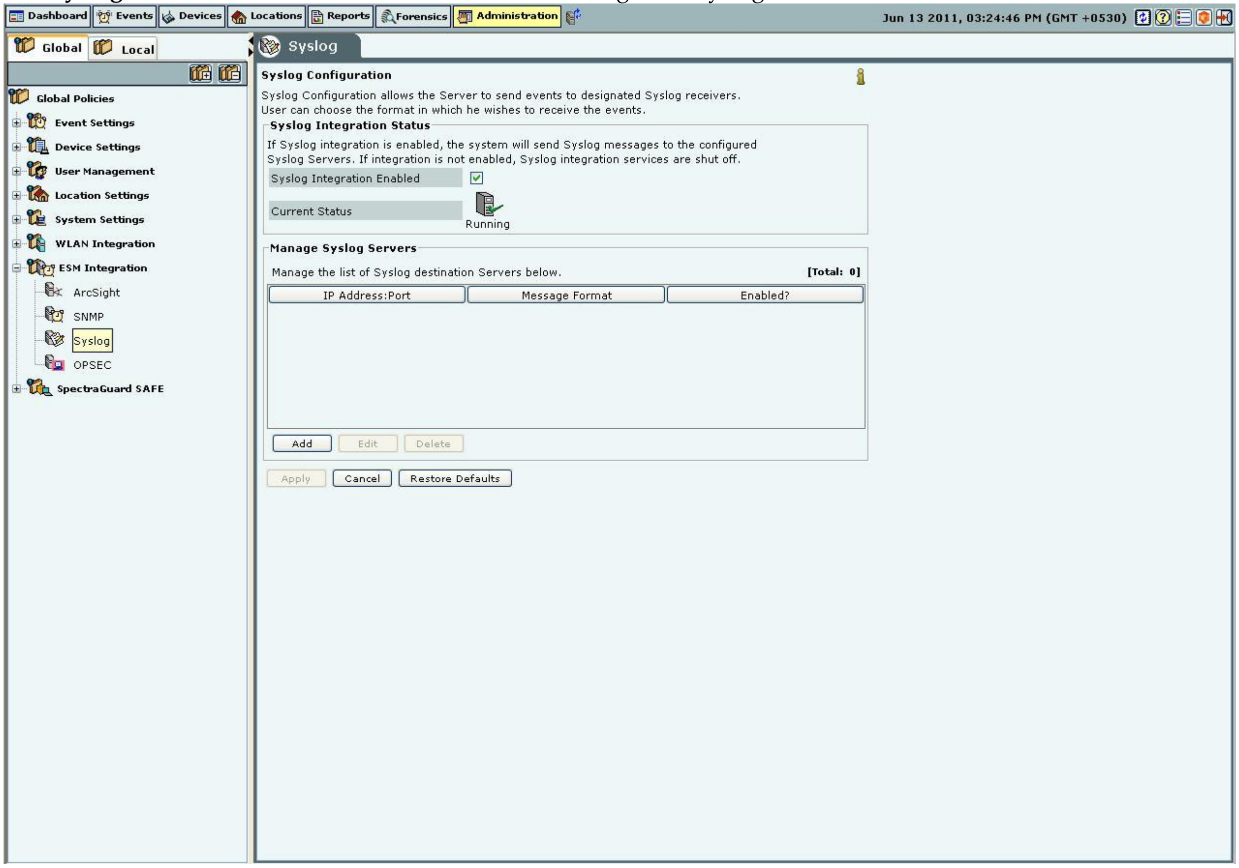
Deleting an SNMP Trap Destination Server

Select a row and click **Delete** to discard the details of an existing SNMP server.

Syslog

Integrating with Syslog servers

The **Syslog** screen allows the server to send events to designated Syslog receivers.



Syslog Configuration

Syslog Configuration allows the Server to send events to designated Syslog receivers.
User can choose the format in which he wishes to receive the events.

Syslog Integration Status

If Syslog integration is enabled, the system will send Syslog messages to the configured Syslog Servers. If integration is not enabled, Syslog integration services are shut off.

Syslog Integration Enabled ☑

Current Status Running

Manage Syslog Servers

Manage the list of Syslog destination Servers below. [Total: 0]

IP Address:Port	Message Format	Enabled?

Syslog

- **Syslog Integration Status:** If Syslog integration is enabled, the system sends messages to the configured Syslog servers. Otherwise, Syslog integration services are shut off.

➢ If you select **Syslog Integration Enabled**, you can manage Syslog servers. The system ***enables*** Syslog by default.

➢ **Current Status**: Displays the **Current Status** of the Syslog server: ***Running*** or ***Stopped***. An ***Error*** status is shown in one of the following cases:

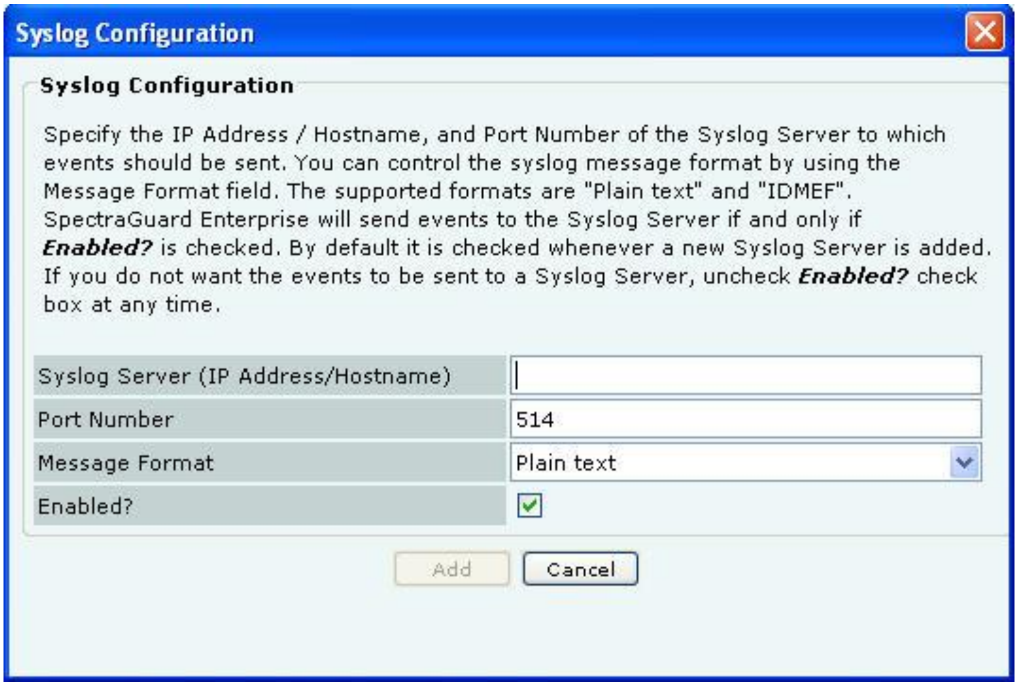
❖ One of the configured and enabled Syslog servers has a hostname, which cannot be resolved

❖ System server is stopped

❖ Internal error, in which case you need to contact Technical Support

Adding a Syslog Server

- Under Manage Syslog Severs, click <Add> to open Syslog Configuration dialog where you can add Syslog server details.



Syslog Configuration

Syslog Configuration

Specify the IP Address / Hostname, and Port Number of the Syslog Server to which events should be sent. You can control the syslog message format by using the Message Format field. The supported formats are "Plain text" and "IDMEF". SpectraGuard Enterprise will send events to the Syslog Server if and only if ***Enabled?*** is checked. By default it is checked whenever a new Syslog Server is added. If you do not want the events to be sent to a Syslog Server, uncheck ***Enabled?*** check box at any time.

Syslog Server (IP Address/Hostname)	
Port Number	514
Message Format	Plain text
Enabled?	☑

Syslog Configuration Dialog

Syslog Configuration contains the following fields:

- **Syslog Server (IP Address/Hostname):** Specifies the IP address or the hostname of the Syslog server to which events should be sent.

Note: *Configured Syslog servers will use the DNS names and DNS suffixes configured by the user in the Server Initialization and Setup Wizard on the Config Shell.*

- **Port Number:** Specifies the port number of the Syslog server to which the system sends events.

(Default: 514)

- **Message Format:** Specifies the format in which the event is sent, which is Intrusion Detection Message Exchange Format (IDMEF) or Plain text.

(Default: Plain text)

Note: *If you upgrade a server pre-6.2 to 6.6, all previously configured Syslog servers would send events in* ***Plain text*** *Message Format by default. You can select the IDMEF format by editing the Syslog server settings.*

- **Enabled?:** Specifies if the events are to be sent to this Syslog server.

(Default: Enabled)

Click **Add** to add the details for a new Syslog server.

Editing a Syslog Server

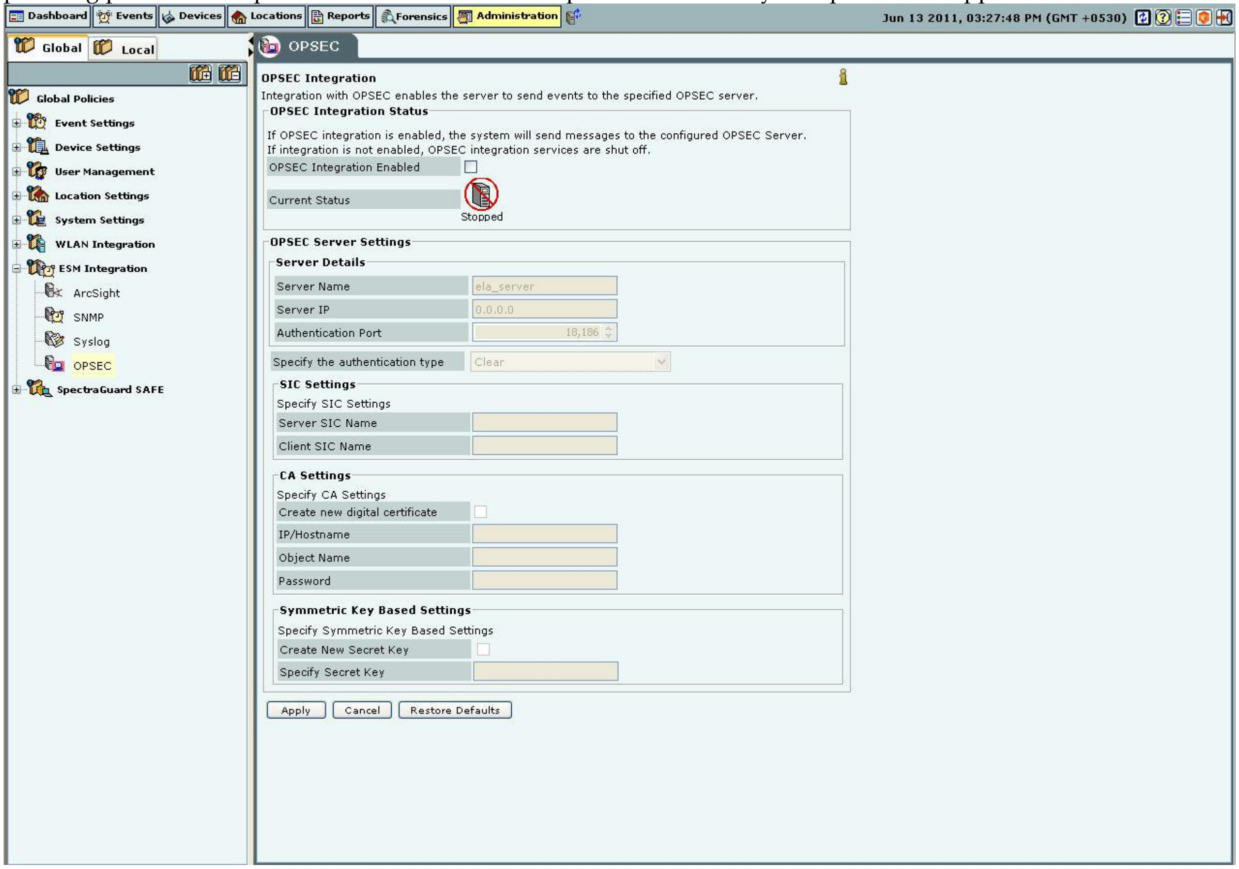
Double-click a row or select a row and click **Edit** to open Syslog Configuration dialog similar to the one shown above. Click **Save** to save all settings.

Deleting a Syslog Server

Select a row and click **Delete** to discard the details of an existing Syslog server.

OPSEC

Operations Security (OPSEC) is an analytic process used to deny an adversary information – generally unclassified – concerning our intentions and capabilities by identifying, controlling, and protecting indicators associated with our planning processes or operations. OPSEC does not replace other security disciplines – it supplements them.



OPSEC Integration

Integration with OPSEC enables the server to send events to the specified OPSEC server.

OPSEC Integration Status

If OPSEC integration is enabled, the system will send messages to the configured OPSEC Server.
If integration is not enabled, OPSEC integration services are shut off.

OPSEC Integration Enabled □

Current Status: Stopped

OPSEC Server Settings

Server Details

Server Name: ela_server

Server IP: 0.0.0.0

Authentication Port: 18,186

Specify the authentication type: Clear

SIC Settings

Specify SIC Settings

Server SIC Name:

Client SIC Name:

CA Settings

Specify CA Settings

Create new digital certificate □

IP/Hostname:

Object Name:

Password:

Symmetric Key Based Settings

Specify Symmetric Key Based Settings

Create New Secret Key □

Specify Secret Key:

Apply | Cancel | Restore Defaults

OPSEC

Integration with OPSEC enables the system to send events to the specified OPSEC server.

- **OPSEC Integration Status:** If OPSEC integration is enabled, the system sends events to the configured OPSEC servers. Otherwise, OPSEC integration services are shut off.
  - If you select **OPSEC Integration Enabled**, you can configure OPSEC server settings. The system ***disables*** OPSEC by default.
  - **Current Status:** Displays the **Current Status** of the OPSEC server: ***Running*** or ***Stopped***. An ***Error*** status is shown in one of the following cases:
    - System server is stopped
    - OPSEC configuration is either incomplete or incorrect or if the OPSEC server is stopped
    - Internal error, in which case you need to contact Technical Support
- Under **OPSEC Server Settings** specify the OPSEC server details.
  - **Server Name**: Specifies the name of the OPSEC server
  - **Server IP**: Specifies the IP Address of the OPSEC server
  - **Authentication Port:** Specifies the OPSEC server authentication port used for communication with the system
  - **Specify the authentication type** you can select one of the following types of authentication:
    - Clear

- SSL
- SSL OPSEC
- SSL Clear
- SSL Clear OPSEC
- FWN
- Auth OPSEC
- SSL CA
- SSL CA Comp
- SSL CA RC4
- SSL CA RC4 Comp
- Asymmetric SSL CA
- Asymmetric SSL CA Comp
- Asymmetric SSL CA RC4
- Asymmetric SSL CA RC4 Comp
- SSLA Clear

- Under **SIC Settings**, you need to specify the following settings for the Simple Instructional Computer (SIC) for all the authentication types except 'Clear':
  - **Server SIC Name**: Specifies the server name of the SIC
  - **Client SIC Name**: Specifies the Client name of the SIC
- Under **CA Settings**, if you have selected an authentication type that has a CA in it, select **Create new digital certificate**, then, you need to configure the following parameters for the Certifying Authority (CA).
  - **IP/Hostname:** Specifies the IP address or the hostname of the CA
  - **Object Name:** Specifies the object name of the CA
  - **Password:** Specifies the one time password needed to acquire the certificate
- Under **Symmetric Key Based Settings**, if you have selected an authentication type that does not have a CA in it, select **Create New Secret Key**, then, you need to create a new secret key.

SpectraGuard SAFE

The SpectraGuard SAFE screen enables you to setup and manage groups for wireless Clients running SAFE.

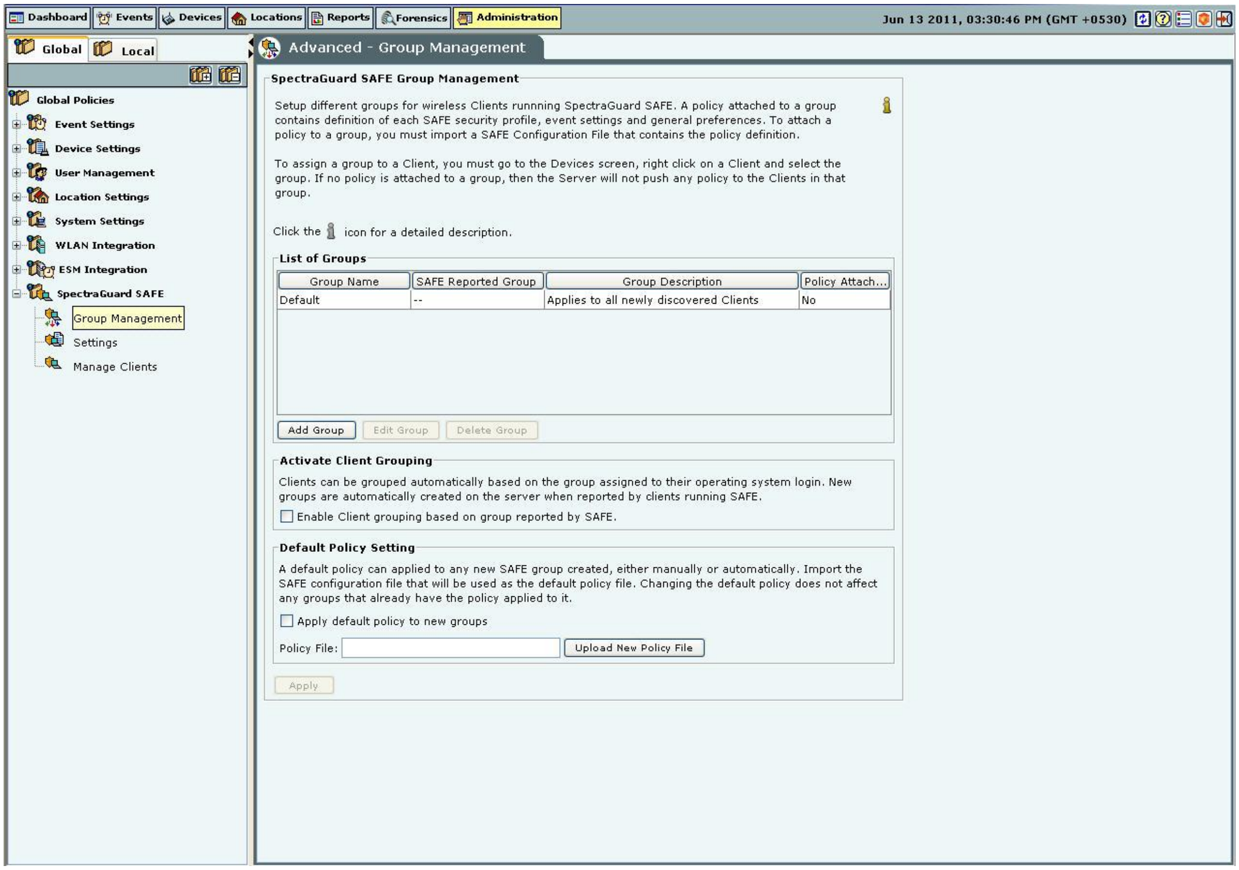
Group Management

Group Management allows the user to manage SAFE policy groups. SAFE groups can be created manually. The system can also be configured to create SAFE groups automatically from the users' domain and logged in group as reported by SAFE.

Each group can have a SAFE policy attached to it. The SAFE policies are created using a SAFE Client. The policy configuration is then imported in the system.

The system gives the administrators the option to categorize the SpectraGuard SAFE Clients into groups automatically. Automatic movement of SpectraGuard SAFE Client is based on the SAFE user's domain and group name information. Manual assignment of SAFE Clients to a group overrides any automatic assignment.

You cannot edit the **default** group.



SpectraGuard SAFE Group Management

Setup different groups for wireless Clients runnning SpectraGuard SAFE. A policy attached to a group contains definition of each SAFE security profile, event settings and general preferences. To attach a policy to a group, you must import a SAFE Configuration File that contains the policy definition.

To assign a group to a Client, you must go to the Devices screen, right click on a Client and select the group. If no policy is attached to a group, then the Server will not push any policy to the Clients in that group.

Click the icon for a detailed description.

List of Groups

Group Name	SAFE Reported Group	Group Description	Policy Attach...
Default	--	Applies to all newly discovered Clients	No

Activate Client Grouping

Clients can be grouped automatically based on the group assigned to their operating system login. New groups are automatically created on the server when reported by clients running SAFE.

☐ Enable Client grouping based on group reported by SAFE.

Default Policy Setting

A default policy can applied to any new SAFE group created, either manually or automatically. Import the SAFE configuration file that will be used as the default policy file. Changing the default policy does not affect any groups that already have the policy applied to it.

☐ Apply default policy to new groups

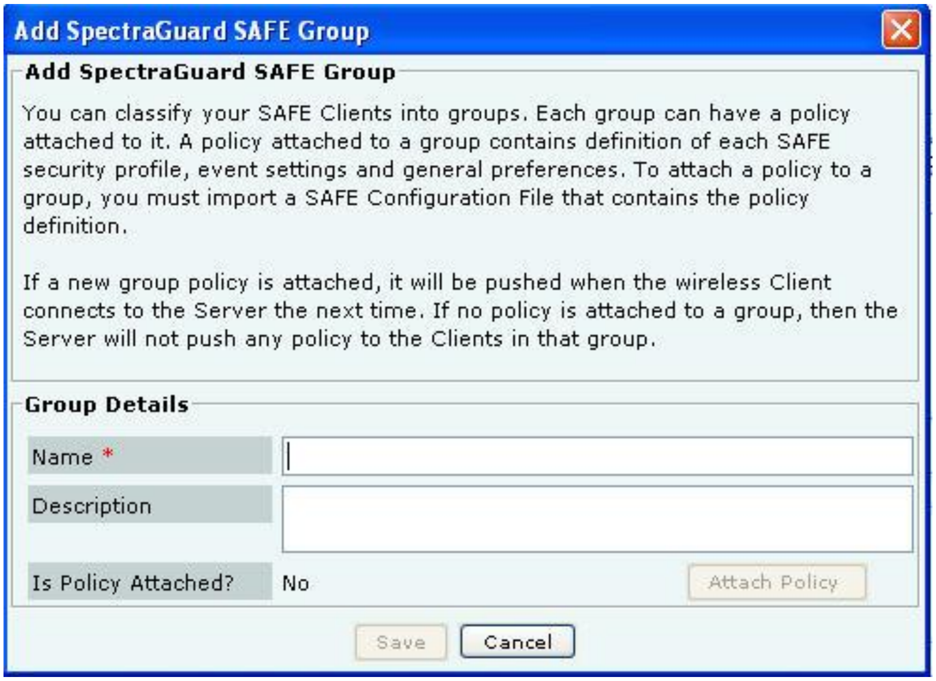
Policy File:

SAFE Group Management

__Note__: For Automatically created groups, "SAFE Reported Group" column displays information about the domain name and group name (OU Hierarchy) reported by SAFE Client as "<Domain Name>/<Group Name (OU Hierarchy)>". For Manually created groups, it displays " - -".

Adding a SAFE Group Manually

Click Add Group to open Add SpectraGuard SAFE Group dialog where you can add the details for various SAFE groups.



Add SpectraGuard SAFE Group

Add SpectraGuard SAFE Group

You can classify your SAFE Clients into groups. Each group can have a policy attached to it. A policy attached to a group contains definition of each SAFE security profile, event settings and general preferences. To attach a policy to a group, you must import a SAFE Configuration File that contains the policy definition.

If a new group policy is attached, it will be pushed when the wireless Client connects to the Server the next time. If no policy is attached to a group, then the Server will not push any policy to the Clients in that group.

Group Details

Name *	
Description	
Is Policy Attached?	No

Add SAFE Group Dialog

Under **Group Details**, specify the following:

- **Name:** Specify a group name for the newly created group.
- **Description:** Specify a brief description for the group.
- **Is Policy Attached?:** Indicates if a policy is attached to the newly defined group.

Click **Attach Policy** to navigate to the path where the SAFE Configuration file is saved. Attach the policy.
Configuration File: Displays the entire path or location of the SAFE Configuration file.
Click **Save** to save the details for the new group.

Note: Duplicate group names are allowed for manually defined groups. The group name of a SAFE reported group and manually created group can be the same.

Attaching SAFE Policy to existing SAFE Group

Use the following steps to attach a policy to an existing SAFE group:

1 On the **SpectraGuard SAFE Group Management** screen, select the SAFE group to which you want to attach a policy.

2 On the **Edit SpectraGuard SAFE Group** dialog that appears, click **Attach Policy**.

3 On the **Confirm** dialog that appears, click **Yes**.

4 On the **Select SAFE Configuration File** dialog, specify the path of the SAFE configuration file (.XML format) and click **Open**.

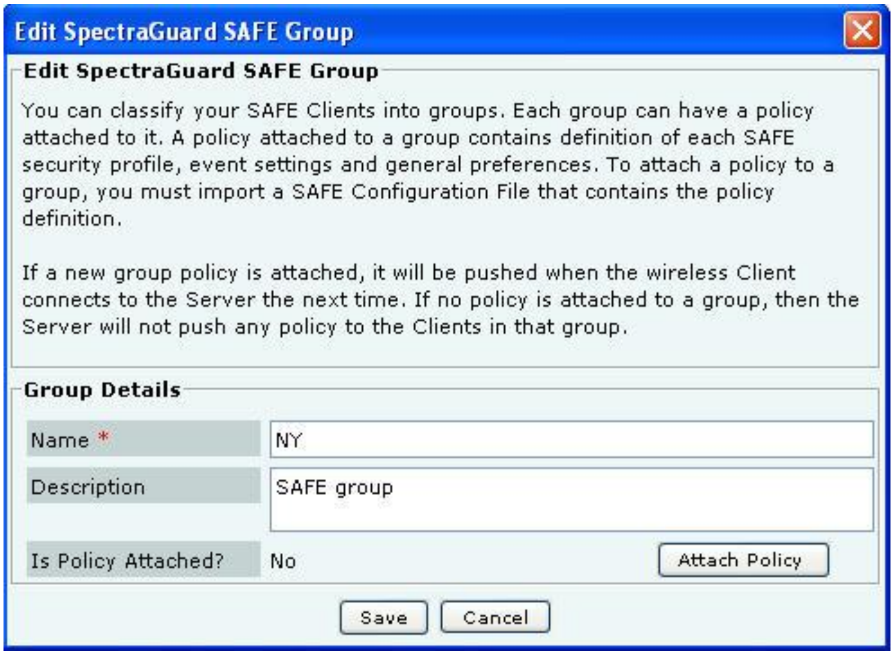
5 Click **Save** to attach the policy to the SAFE group.

***Note:** It is not mandatory to export the IP Address and Shared Key information from the SAFE Client as it already has this information when it connects to the server.*

Editing a SAFE Group

Select a group from the **List of Groups** and click **Edit Group** to open **Edit SpectraGuard SAFE Group** dialog where you can edit the details of an existing SAFE Group. Additionally, in this dialog you can do the following:

- Click the hyperlink **View Policy** to view the attached policy.
- Click **Overwrite Policy** to overwrite the existing policy attached to the SAFE group with the policy contained in a SAFE Configuration file.
- Click **Detach Policy** to detach the existing policy attached to the SAFE group. If no policy is attached to a group, the server does not push any policy to the Clients in that group. The Clients retain their previous policy. When you do not attach a policy or you detach a policy from a SAFE group, the system does not send the Activity Parameter information such as Keep-alive Interval, Keep-alive Timeout, and Synchronization Interval to the Clients belonging to that SAFE group.



Edit SpectraGuard SAFE Group

You can classify your SAFE Clients into groups. Each group can have a policy attached to it. A policy attached to a group contains definition of each SAFE security profile, event settings and general preferences. To attach a policy to a group, you must import a SAFE Configuration File that contains the policy definition.

If a new group policy is attached, it will be pushed when the wireless Client connects to the Server the next time. If no policy is attached to a group, then the Server will not push any policy to the Clients in that group.

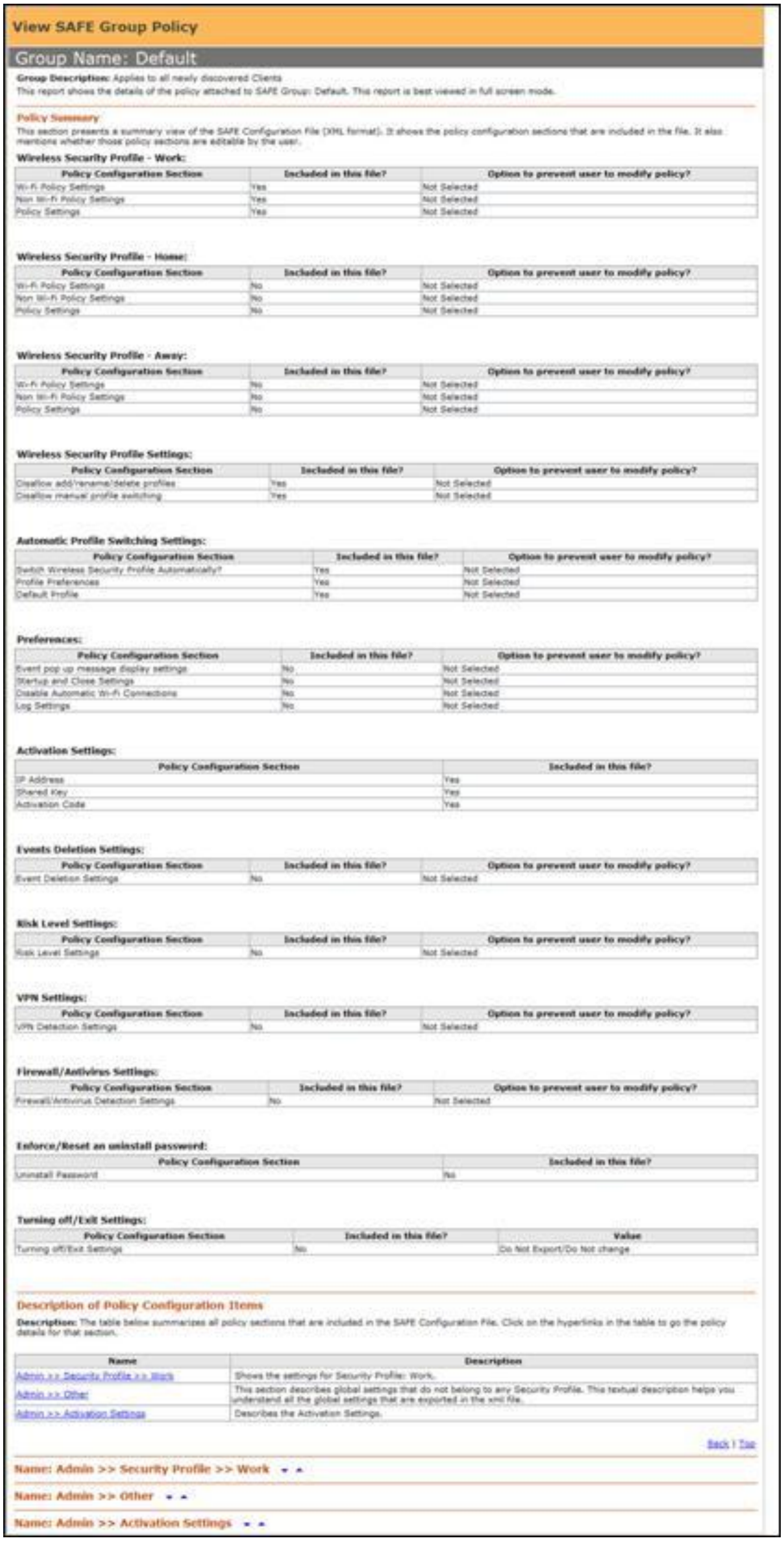
Group Details

Name *	NY
Description	SAFE group
Is Policy Attached?	No

Edit a SAFE Group

Viewing a SAFE Group Policy

On the **SpectraGuard SAFE Group Management** screen, for the selected SAFE group, click the hyperlink **View Policy**. Alternatively, on the **Edit SpectraGuard SAFE Group** dialog, click the hyperlink **View Policy**. A report showing the details of the policy group attached to the selected SAFE group appears.



View SAFE Group Policy

Group Name: Default

Group Description: Applies to all newly discovered Clients

This report shows the details of the policy attached to SAFE Group: Default. This report is best viewed in full screen mode.

Policy Summary

This section presents a summary view of the SAFE Configuration File (XML format). It shows the policy configuration sections that are included in the file. It also mentions whether those policy sections are editable by the user.

Wireless Security Profile - Work:

Policy Configuration Section	Included in this file?	Option to prevent user to modify policy?
Wi-Fi Policy Settings	Yes	Not Selected
Non Wi-Fi Policy Settings	Yes	Not Selected
Policy Settings	Yes	Not Selected

Wireless Security Profile - Home:

Policy Configuration Section	Included in this file?	Option to prevent user to modify policy?
Wi-Fi Policy Settings	No	Not Selected
Non Wi-Fi Policy Settings	No	Not Selected
Policy Settings	No	Not Selected

Wireless Security Profile - Away:

Policy Configuration Section	Included in this file?	Option to prevent user to modify policy?
Wi-Fi Policy Settings	No	Not Selected
Non Wi-Fi Policy Settings	No	Not Selected
Policy Settings	No	Not Selected

Wireless Security Profile Settings:

Policy Configuration Section	Included in this file?	Option to prevent user to modify policy?
Disallow add/rename/delete profiles	Yes	Not Selected
Disallow manual profile switching	Yes	Not Selected

Automatic Profile Switching Settings:

Policy Configuration Section	Included in this file?	Option to prevent user to modify policy?
Switch Wireless Security Profile Automatically?	Yes	Not Selected
Profile Preferences	Yes	Not Selected
Default Profile	Yes	Not Selected

Preferences:

Policy Configuration Section	Included in this file?	Option to prevent user to modify policy?
Event pop up message display settings	No	Not Selected
Startup and Close Settings	No	Not Selected
Disable Automatic Wi-Fi Connections	No	Not Selected
Log Settings	No	Not Selected

Activation Settings:

Policy Configuration Section	Included in this file?
IP Address	Yes
Shared Key	Yes
Activation Code	Yes

Events Deletion Settings:

Policy Configuration Section	Included in this file?	Option to prevent user to modify policy?
Event Deletion Settings	No	Not Selected

Risk Level Settings:

Policy Configuration Section	Included in this file?	Option to prevent user to modify policy?
Risk Level Settings	No	Not Selected

VPN Settings:

Policy Configuration Section	Included in this file?	Option to prevent user to modify policy?
VPN Detection Settings	No	Not Selected

Firewall/Antivirus Settings:

Policy Configuration Section	Included in this file?	Option to prevent user to modify policy?
Firewall/Antivirus Detection Settings	No	Not Selected

Enforce/Reset an uninstall password:

Policy Configuration Section	Included in this file?
Uninstall Password	No

Turning off/Exit Settings:

Policy Configuration Section	Included in this file?	Value
Turning off/Exit Settings	No	Do Not Export/Do Not change

Description of Policy Configuration Items

Description: The table below summarizes all policy sections that are included in the SAFE Configuration File. Click on the hyperlinks in the table to go the policy details for that section.

Name	Description
Admin >> Security Profile >> Work	Shows the settings for Security Profile: Work.
Admin >> Other	This section describes global settings that do not belong to any Security Profile. This textual description helps you understand all the global settings that are exported in the xml file.
Admin >> Activation Settings	Describes the Activation Settings.

Back | Top

Name: Admin >> Security Profile >> Work ▾ ▴

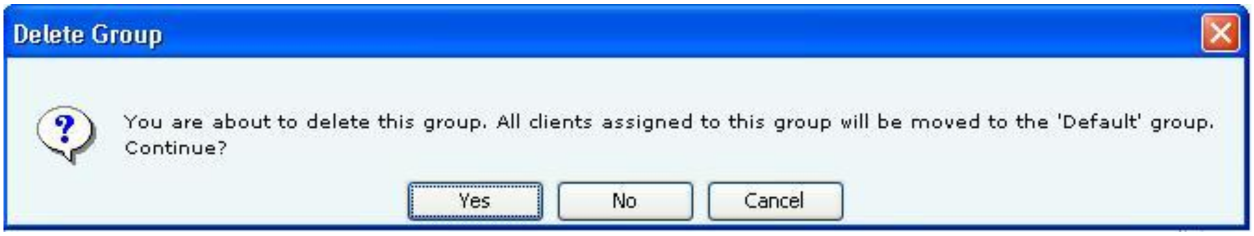
Name: Admin >> Other ▾ ▴

Name: Admin >> Activation Settings ▾ ▴

View a SAFE Group Policy

Deleting a SAFE Group

Select a group from the **List of Groups** and click **Delete Group**. The **Delete Group** message appears. Click Yes to confirm deletion. After deleting the group all the Clients in that group are assigned to 'Default' group.

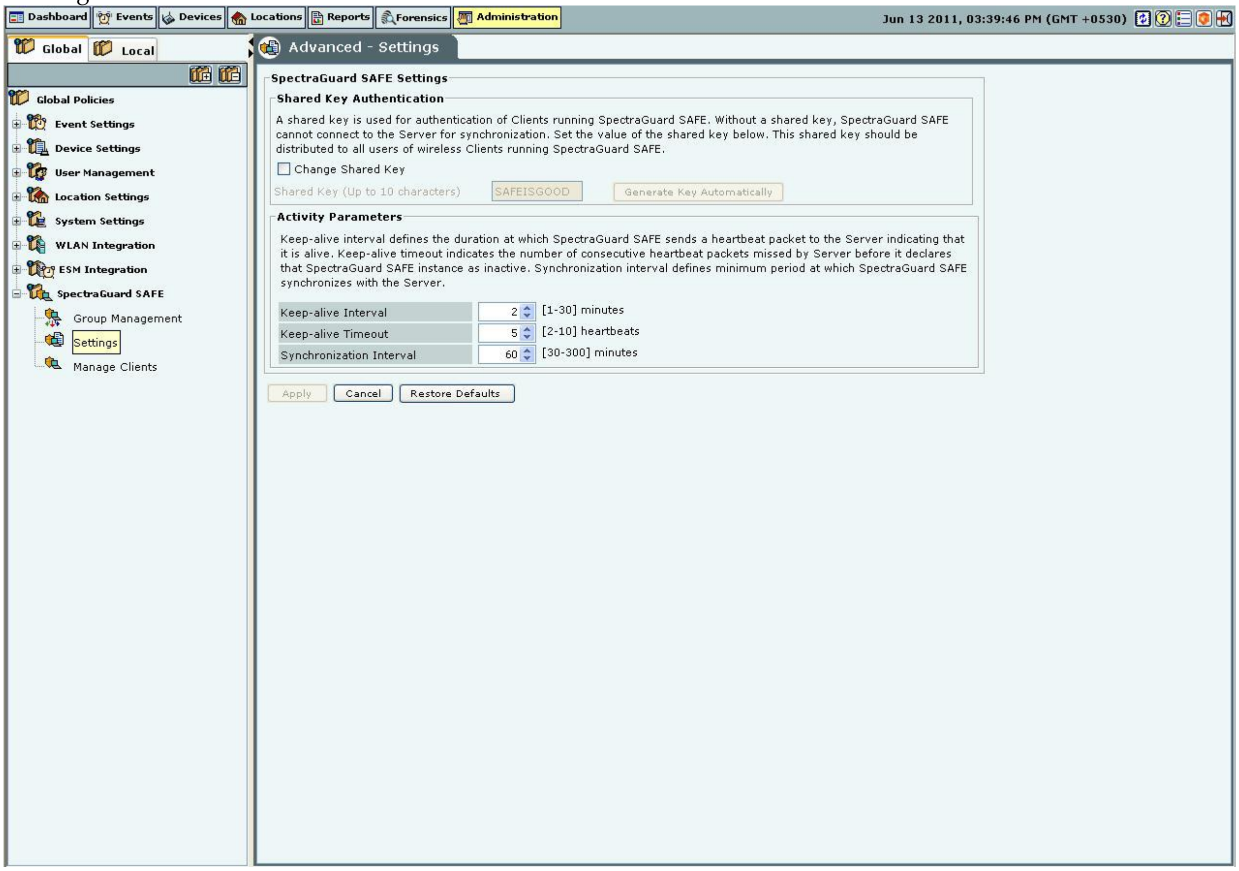


You are about to delete this group. All clients assigned to this group will be moved to the 'Default' group. Continue?

Delete a SAFE Group

Settings

A shared key is used for authentication of Clients running SAFE. SAFE cannot connect to the server for synchronization without a shared key. This shared key should be distributed to all the users of wireless Clients running SAFE.



SpectraGuard SAFE Settings

Shared Key Authentication

A shared key is used for authentication of Clients running SpectraGuard SAFE. Without a shared key, SpectraGuard SAFE cannot connect to the Server for synchronization. Set the value of the shared key below. This shared key should be distributed to all users of wireless Clients running SpectraGuard SAFE.

□ Change Shared Key

Shared Key (Up to 10 characters) SAFEISGOOD Generate Key Automatically

Activity Parameters

Keep-alive interval defines the duration at which SpectraGuard SAFE sends a heartbeat packet to the Server indicating that it is alive. Keep-alive timeout indicates the number of consecutive heartbeat packets missed by Server before it declares that SpectraGuard SAFE instance as inactive. Synchronization interval defines minimum period at which SpectraGuard SAFE synchronizes with the Server.

Keep-alive Interval	2	[1-30] minutes
Keep-alive Timeout	5	[2-10] heartbeats
Synchronization Interval	60	[30-300] minutes

SAFE Settings

Under **Shared Key Authentication**, do one of the following:

- Select **Change Shared Key** to change the existing shared key.

Note: *You need to be very careful about changing the Shared Key if it has already been circulated to existing SAFE Clients. This is because, if you change the Shared Key, existing SAFE users* ***will not be able*** *to connect to the server unless they re-activate their SAFE Clients using the new Shared Key.*

- Click **Generate Key Automatically** to enable the system to automatically generate a shared key of up to 10 alphanumeric characters using which SAFE Clients can connect with the system.

Under **Activity Parameters**, specify the following:

- **Keep-alive Interval:** Defines the duration at which SAFE sends a heartbeat to the server indicating that it is active.

(Minimum: 1 minute; Maximum: 30 minutes; Default: 2 minutes)

- **Keep-alive Timeout:** Indicates the number of consecutive heartbeat packets missed by the server before it declares that SAFE instance as inactive.

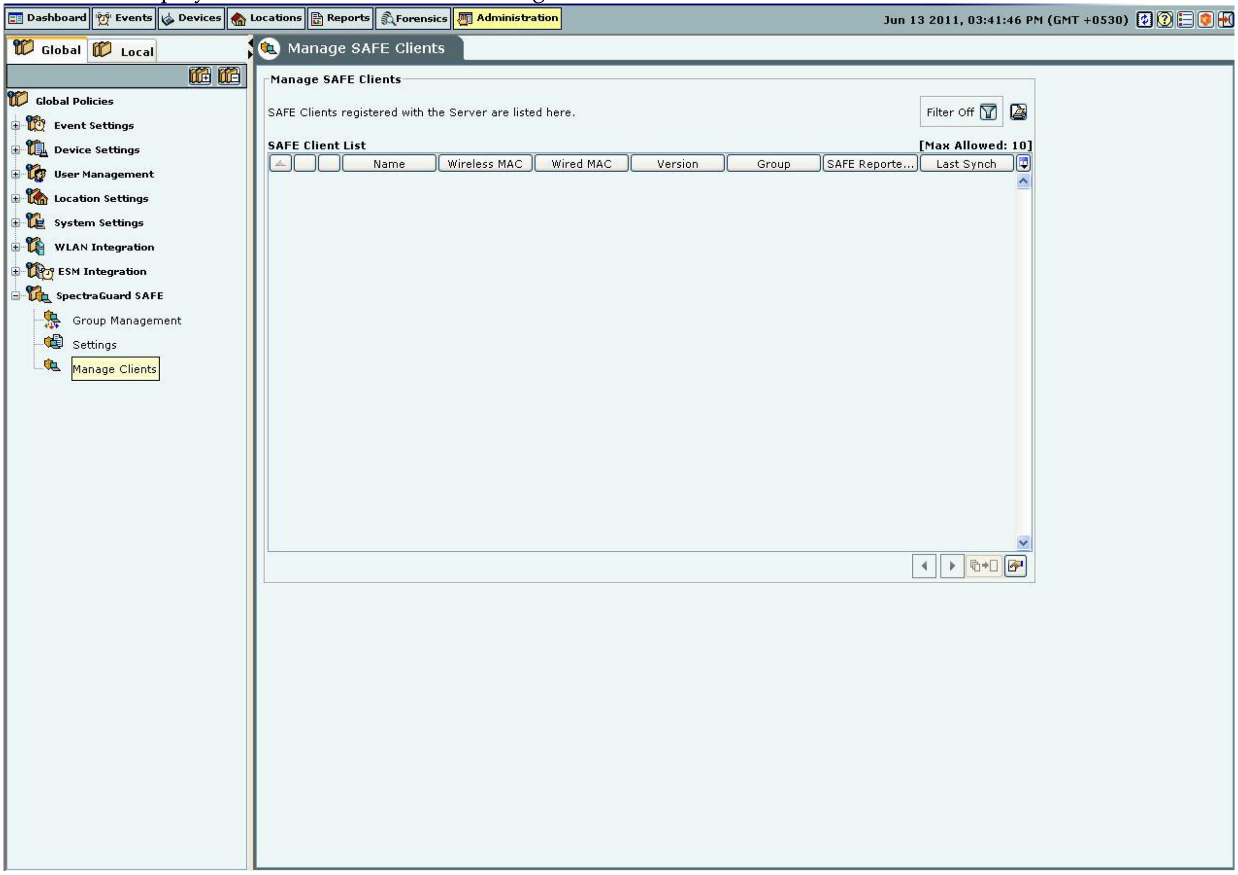
(Minimum: 2 heartbeats; Maximum: 10 heartbeats; Default: 5 heartbeats)

- **Synchronization Interval:** Defines the minimum period at which SAFE synchronizes with the server.

(Minimum: 30 minutes; Maximum: 300 minutes; Default: 60 minutes)

Manage Clients

This screen displays details of the SAFE Clients registered with the server.



Manage SAFE Clients

SAFE Clients registered with the Server are listed here.

SAFE Client List [Max Allowed: 10]

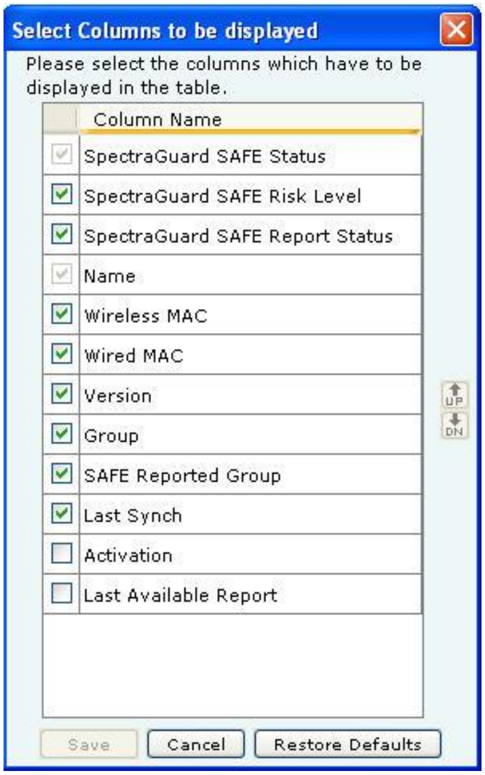
			Name	Wireless MAC	Wired MAC	Version	Group	SAFE Reporte...	Last Synch

Manage SAFE Clients

This screen shows the following information about SAFE Clients:

- **SAFE Status Icon:** Identifies the SAFE status – *Active* or *Not Active*.
- **SAFE Risk Level Icon:** Identifies the SAFE risk level – *High, Medium,* or *Low*.
- **Report Availability for SAFE Client:** Indicates one of the following *Report available*, *Report not available*, or *Report Scheduled*.
- **Name:** Specifies the First name and Last name or hostname of the Client.
- **Wireless MAC:** Specifies the first detected wireless MAC address of the Client in case of multiple wireless interfaces.
- **Wired MAC:** Specifies the first detected wired MAC address of the Client in case of multiple wired interfaces.

- **Version:** Specifies the build and version number of the software loaded in the Client.
- **Group:** Specifies the group name as defined through **Group Management.** The asterisk before a group name indicates that the group has been manually changed for the client, from a SAFE reported group to manually created group.
- **SAFE** Reported **Group:** Specifies the SAFE reported group to which the Client belongs. , "SAFE Reported Group" column displays information about the domain name and group name (OU Hierarchy) reported by SAFE Client as "<Domain Name>/<Group Name (OU Hierarchy)>".
- **Last Synch:** Specifies the time when the SAFE Client last synchronized with the system.
- **Activation:** Specifies the date and time when the SAFE Client was activated.
- **Last Available Report:** Specifies the time when a report was last generated for the selected SAFE Client.
- **Configure Display Columns:** Clicking on the Column Visibility icon opens a window showing the columns available for display and their current selection and display order. You can check/uncheck the checkbox before the column name to select/deselect it from SAFE Client List display**.** You can change the display order of a column by selecting the column name and moving it up/down with Up/Down buttons. Save the display settings by clicking <**Save**> button.
- **Max Allowed:** Specifies the maximum number of SAFE Clients that can be connected to the system. This number depends on the number of users permitted by your SGE license.



Select Columns to be displayed

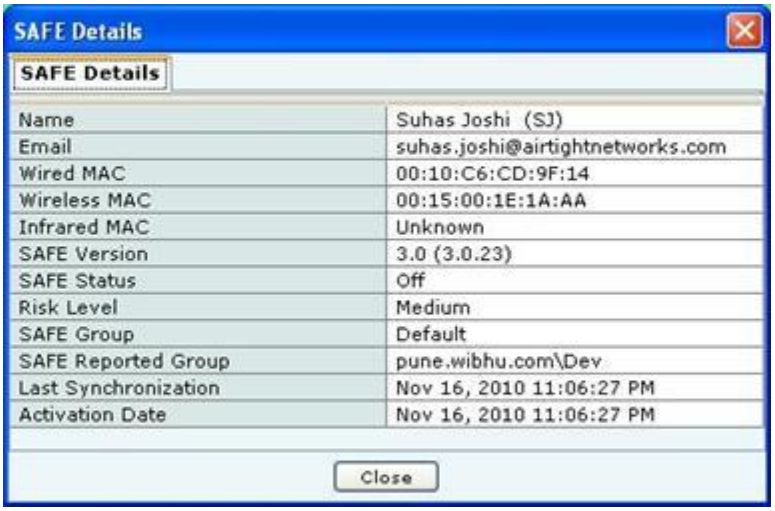
Please select the columns which have to be displayed in the table.

	Column Name
☑	SpectraGuard SAFE Status
☑	SpectraGuard SAFE Risk Level
☑	SpectraGuard SAFE Report Status
☑	Name
☑	Wireless MAC
☑	Wired MAC
☑	Version
☑	Group
☑	SAFE Reported Group
☑	Last Synch
□	Activation
□	Last Available Report

SAFE Client List – Display Columns Screen

Note: *The Console displays either a SAFE Client that has only a wired interface or a SAFE Client not yet categorized on a white row on the* ***Manage SAFE Clients*** *screen.*

Double-clicking a SAFE Client row displays the SAFE Details dialog.

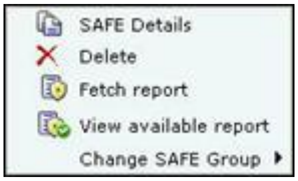


Name	Suhas Joshi (SJ)
Email	suhas.joshi@airtightnetworks.com
Wired MAC	00:10:C6:CD:9F:14
Wireless MAC	00:15:00:1E:1A:AA
Infrared MAC	Unknown
SAFE Version	3.0 (3.0.23)
SAFE Status	Off
Risk Level	Medium
SAFE Group	Default
SAFE Reported Group	pune.wibhu.com\Dev
Last Synchronization	Nov 16, 2010 11:06:27 PM
Activation Date	Nov 16, 2010 11:06:27 PM

SAFE Client Details Dialog

Note: *The servers with version 5.7, 5.9, 6.0, 6.1, and 6.2 are compatible with SAFE versions 2.5 and 2.7.*

Right-clicking a SAFE Client row displays the context sensitive menu.

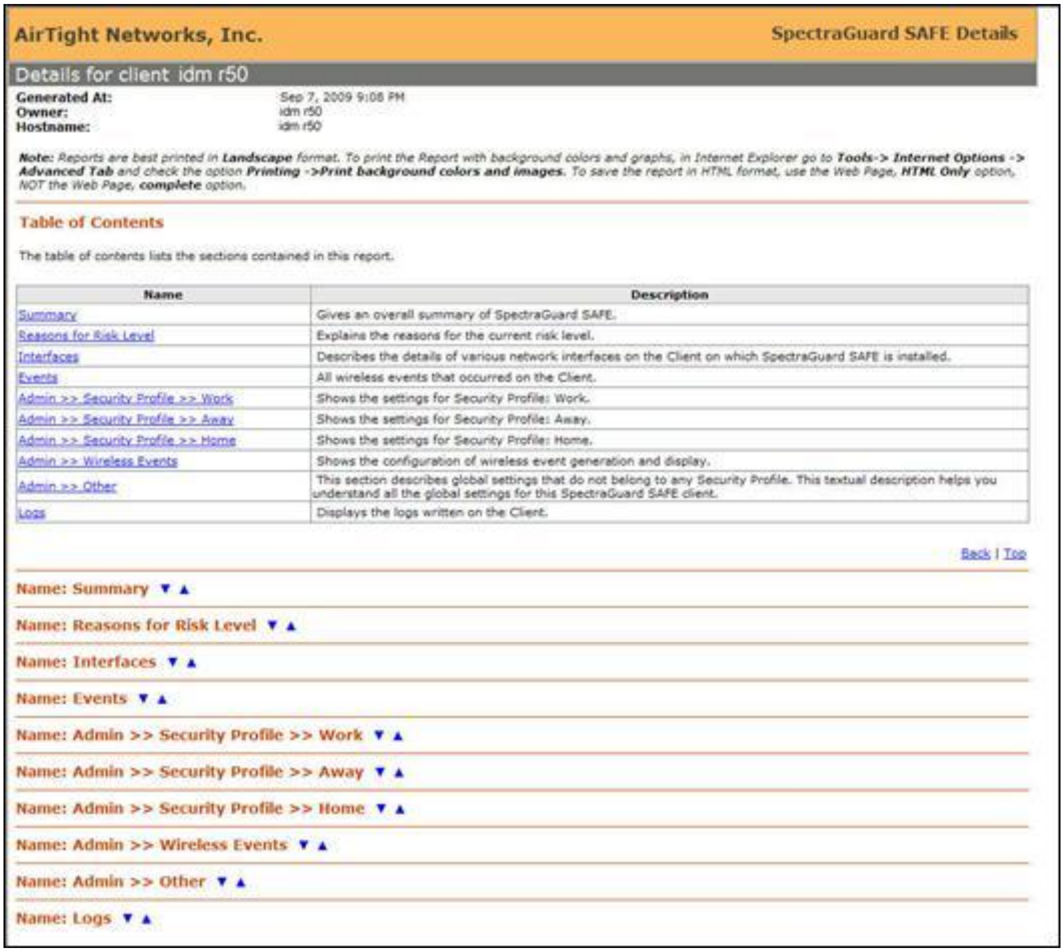


SAFE Client Context Sensitive Menu

Items in the SAFE Client Context Sensitive Menu

The SAFE Client context-sensitive menu includes the following items.

- **SAFE Details:** Enables you to view details of the SAFE Client as shown in the **Client Details** dialog.
- **Delete:** Allows you to delete a SAFE Client. It displays a **Confirm** dialog that enables you to delete a selected SAFE Client. Click <**Yes**> to delete the SAFE Client.
- **Fetch Report:** Available for a SAFE Client which is *Active*, this option if selected, displays a progress bar and then fetches a fresh report from the SAFE Client.
- **Schedule Report:** Available for a SAFE Client which is *Inactive*, this option enables you to schedule a report for the selected SAFE Client. A fresh report is generated for the Client when it becomes Active.
- **View available report:** Available for a SAFE Client for which a report is fetched earlier, this option displays a progress bar and then a report that enables you to view various reports generated earlier for the selected SAFE Client. Each time the system generates a SAFE report, it updates the **Last Available Report** column on the **Manage SAFE Clients** screen.



AirTight Networks, Inc. SpectraGuard SAFE Details

Details for client idm r50

Generated At: Sep 7, 2009 9:08 PM
Owner: idm r50
Hostname: idm r50

Note: *Reports are best printed in* ***Landscape*** *format. To print the Report with background colors and graphs, in Internet Explorer go to* ***Tools-> Internet Options -> Advanced Tab*** *and check the option* ***Printing ->Print background colors and images****. To save the report in HTML format, use the Web Page,* ***HTML Only*** *option, NOT the Web Page,* ***complete*** *option.*

Table of Contents

The table of contents lists the sections contained in this report.

Name	Description
Summary	Gives an overall summary of SpectraGuard SAFE.
Reasons for Risk Level	Explains the reasons for the current risk level.
Interfaces	Describes the details of various network interfaces on the Client on which SpectraGuard SAFE is installed.
Events	All wireless events that occurred on the Client.
Admin >> Security Profile >> Work	Shows the settings for Security Profile: Work.
Admin >> Security Profile >> Away	Shows the settings for Security Profile: Away.
Admin >> Security Profile >> Home	Shows the settings for Security Profile: Home.
Admin >> Wireless Events	Shows the configuration of wireless event generation and display.
Admin >> Other	This section describes global settings that do not belong to any Security Profile. This textual description helps you understand all the global settings for this SpectraGuard SAFE client.
Logs	Displays the logs written on the Client.

Back | Top

Name: Summary ▼ ▲

Name: Reasons for Risk Level ▼ ▲

Name: Interfaces ▼ ▲

Name: Events ▼ ▲

Name: Admin >> Security Profile >> Work ▼ ▲

Name: Admin >> Security Profile >> Away ▼ ▲

Name: Admin >> Security Profile >> Home ▼ ▲

Name: Admin >> Wireless Events ▼ ▲

Name: Admin >> Other ▼ ▲

Name: Logs ▼ ▲

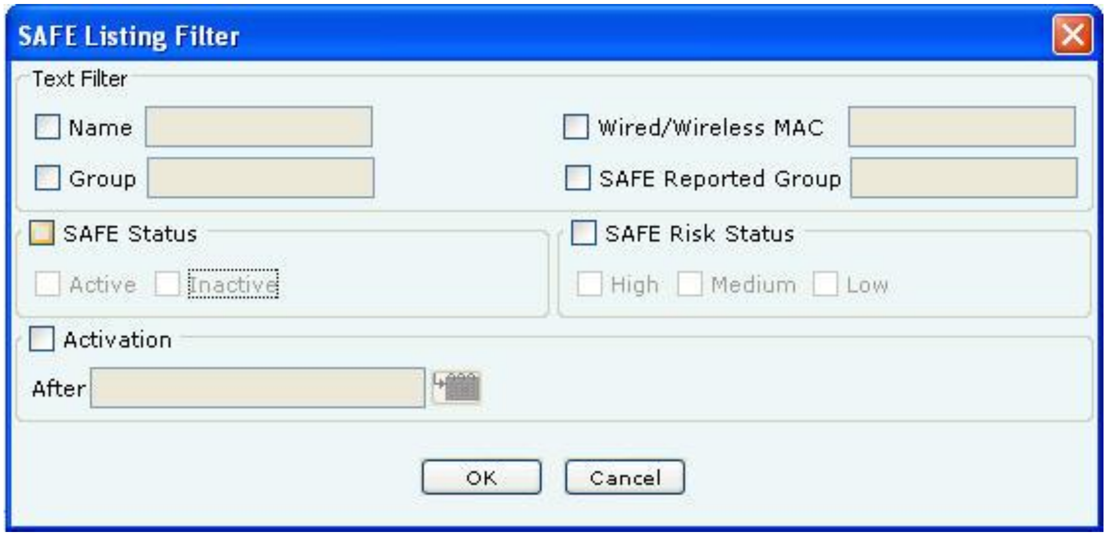
SAFE Client Report

Change SAFE Group: Enables you to change the group of the selected Client to any group except the group currently associated with the selected Client. After the Clients group changes, the new policy is applied to the SAFE Client.

Filtering in SAFE

To focus your attention to a subset of SAFE Client List based on a filtering criteria (such as SAFE Status, SAFE Risk Status, and so on) system provides you with the capability to filter SAFE Client List. Use the following steps to filter SAFE Client List:

1 Click the **Filter** icon to open the **SAFE Listing Filter** dialog.



SAFE Listing Filter

2 Under **Text Filter**, select one or more of the following check boxes and enter the appropriate values manually for searching data related to it:

- **Name**
- **Wired/Wireless MAC**
- **Group**
- **SAFE Reported Group**

3 Select **the SAFE Status** check box, select one or more of the following check boxes:

- **Active**
- **Inactive**

4 Select **the SAFE Risk Status** check box, select one or more of the following check boxes:

- **High**
- **Medium**
- **Low**

5 Select the **Activation** check box, click the 📅 icon to specify the date and time of the activation of the SAFE Client and then click **OK**. The search displays the SAFE Client list, which were first detected by the system after the date as specified above

6 Select the **Group** check box, select the **Group Name** from the drop down box for searching data related to it.

7 To save and apply the SAFE Client List filtering criteria, click **OK**. When the filter is applied it is denoted by **Filter On** on the Console, if no filter is applied it is denoted by **Filter Off** on the Console.

Local Policies

Local Policies

About Local Policies

Local Policies are those that you can customize for a particular location. When you create a new location, by default, all the policies for this new location are always the same as its parent location. In other words, this newly created location inherits policies from its parent. You can change these inherited policies. Specifically a user with administrative rights can configure these policies for a location.

Click the **Local** tab in the Administration screen to view the policies groups under this tab.
The **Local** tab consists of two trees:

- **Location** tree on the top
- **Administration** tree at the bottom

Recommended: *Do not use distinct policies for two locations that represent geographically close-by areas. This is because if two locations are very close, it is possible that sensors from both these locations see a device, thereby affecting the accuracy of location tagging for the device.*

Policy and Policy Groups

The system clubs policies in **Local Policies** with related functionality into groups called **Policy Groups**. Examples of policy groups and policies within them are as shown below.

Example 1

Operating Policies (Policy Group)

- AP Auto-classification(Policy1)
- Client Auto-classification (Policy 2)
- Intrusion Prevention (Policy 3)

Example 2

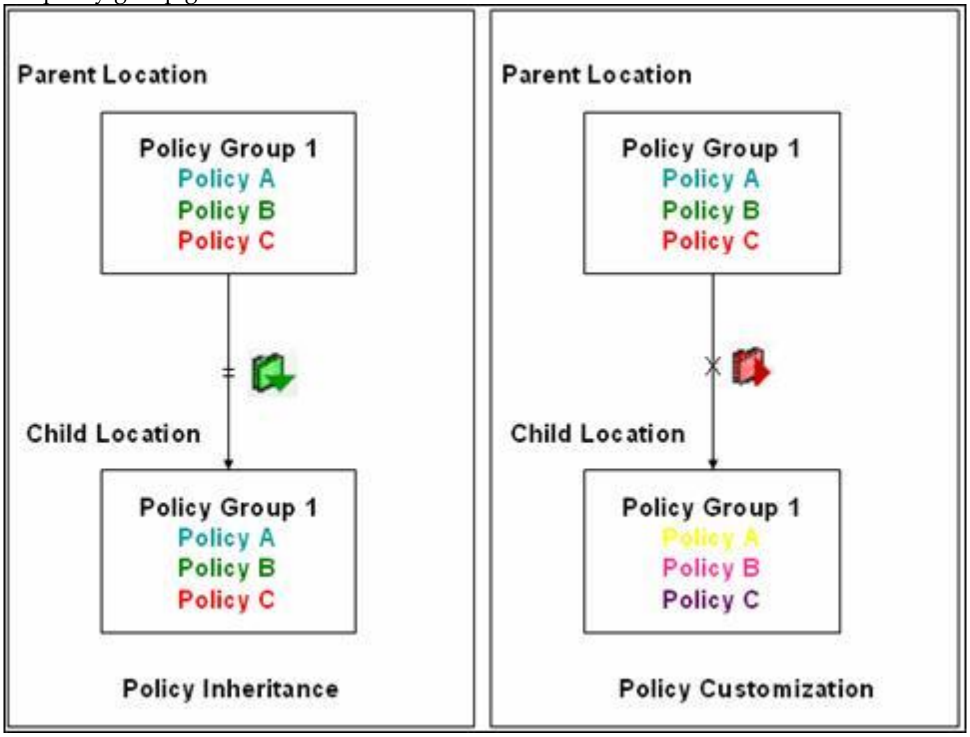
Event Settings (Policy Group)

- Configuration (Policy 1)
- Email Notification (Policy 2)

Customizing v/s Inheriting Policies

By default, a location **inherits** policies from its parent location. You can break the inheritance and customize the policies at a location.

You can customize or inherit policies only at the **policy group** level. Customize or inherit of individual policies is not allowed at the individual policy level within the policy group. By customizing or inheriting a policy in a policy group, the policy group gets customized or inherited.

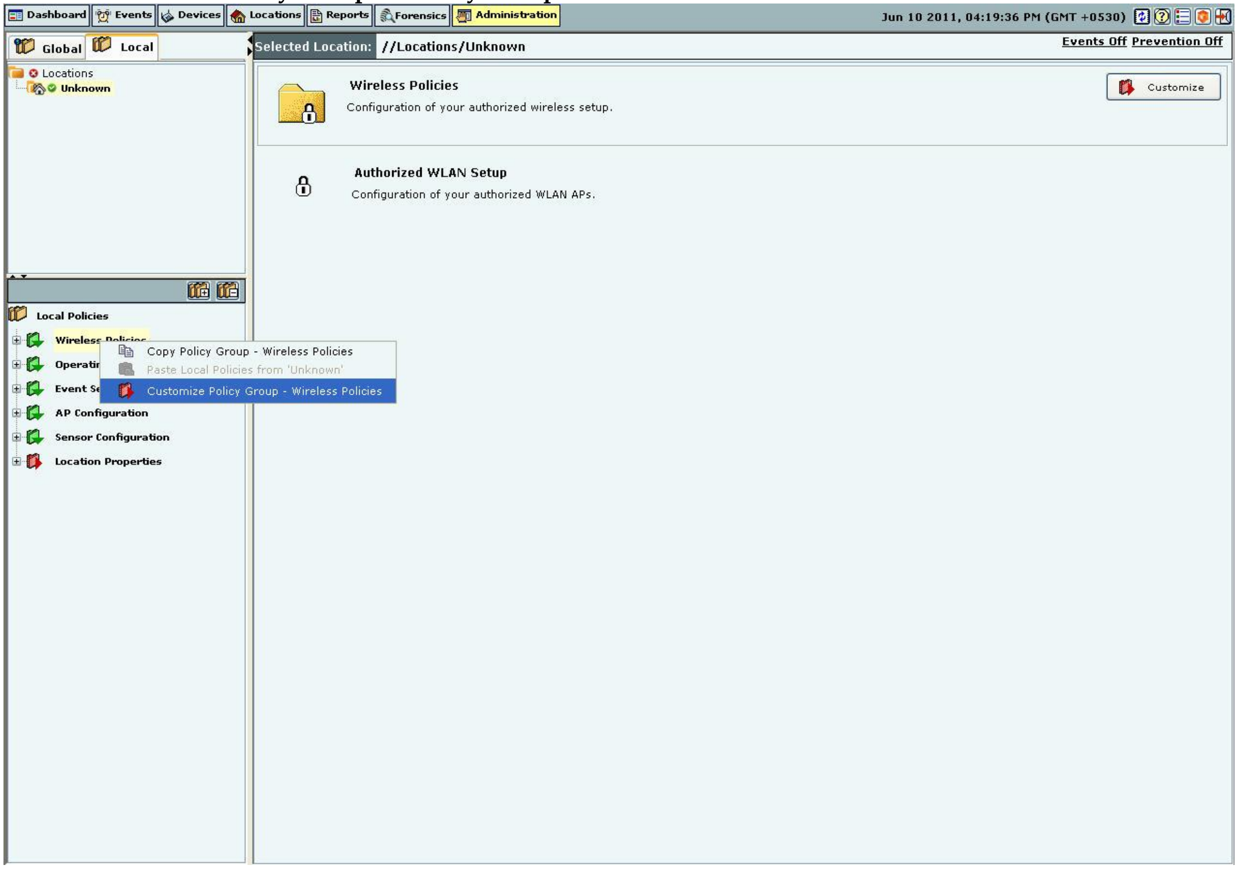


Policy Inheritance v/s Customization

Customizing Policies

Use the following steps to customize policies in a policy group for a location that inherits policies from its parent:

1. Select the **Local** tab.
2. Select a location in the **Location** tree for which you want to customize the policies.
3. Select a policy group from the **Administration** tree.
4. Right-click either the selected location or the selected policy group. A context sensitive menu appears. Click **Customize Policy Group – '<Policy Group Name>'**.


Dashboard
Events
Devices
Locations
Reports
Forensics
Administration
Jun 10 2011, 04:19:36 PM (GMT +0530)
Global
Local
Selected Location: //Locations/Unknown
Events Off
Prevention Off
Locations
Unknown
Wireless Policies
Configuration of your authorized wireless setup.
Customize
Authorized WLAN Setup
Configuration of your authorized WLAN APs.
Local Policies
Wireless Policies
Operatir
Event Se
AP Configuration
Sensor Configuration
Location Properties
Copy Policy Group - Wireless Policies
Paste Local Policies from 'Unknown'
Customize Policy Group - Wireless Policies

Customizing a Policy Group

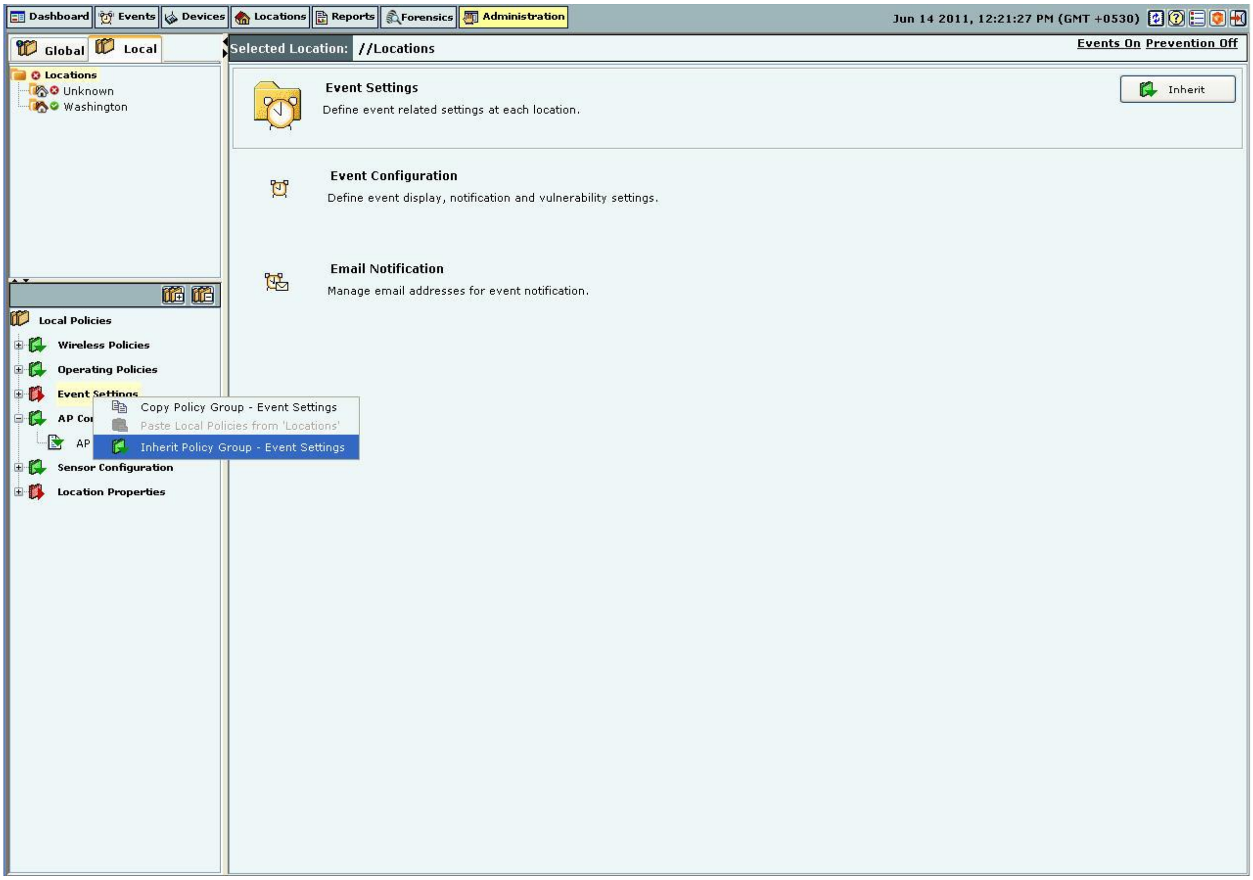
5. Alternatively, click Customize on the right side of the policy group pane.
6. Alternatively click the hyperlink **Customize** in the sentence 'Click **Customize** to re-define this policy at this location.' on the individual policy page. By customizing the individual policy, the entire policy group is customized.

You can now custom define the individual policies within the policy node.

Inheriting Policies: (Re)establishing Inheritance

Use the following steps to inherit policies in a policy group for a location which has customized policies:

1. Select the **Local** tab.
2. Select a location in the **Location** tree for which you want to inherit policies from its parent.
3. Select a policy group from the **Administration** tree.
4. Right-click either the selected location or the selected policy group. A context sensitive menu appears. Click **Inherit Policy Group – '<Policy Group Name>'**.



Event Settings

Define event related settings at each location.

Event Configuration

Define event display, notification and vulnerability settings.

Email Notification

Manage email addresses for event notification.

Inheriting Policies for a Policy Group

5. Alternatively, click Inherit on the right side of the policy group pane.
6. Alternatively click the hyperlink **Inherit** in the sentence 'Click **Inherit** to inherit this policy from its parent location.' on the individual policy page. By inheriting the individual policy, the entire policy group is inherited from its parent location.

This re-establishes the inheritance link for the selected policy group. The policy group loses any existing customization for the selected location and starts using the parent policies instead. Once policies are inherited, action items like checkboxes, buttons, and so on are de-activated in the policy pane. You will see the policies in a **Read-only** mode.

Template Based Policies

In the system, some policies are made up of one or more templates. In a large setup with several locations, the administrator would like to create templates on a single location and reuse these templates, if other locations in the sub-tree need to have similar templates to define their policies.

Applying a Template

A user can create templates at locations to which access has been granted. You can then select one or more such templates to be applied at a particular location. Thus, when you apply one or more templates to a location, you define the policy for that location.

Template Availability at Sub-locations

When you create a new template at a location, it is available for viewing and applying to all the locations in its sub-tree. Templates can only be modified and deleted at the location at which they are created.

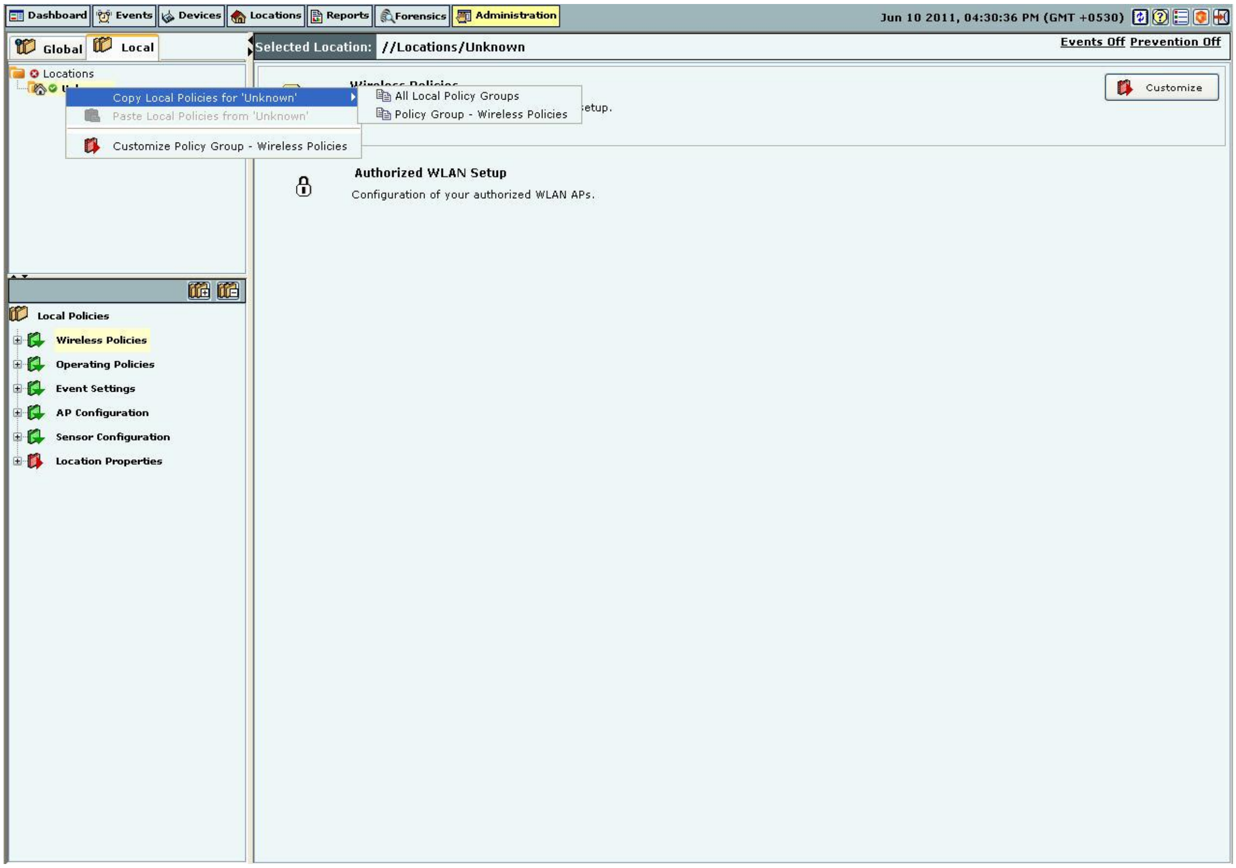
Copying and Pasting of Local Policies

In a large setup with several locations, the administrator would like to custom define policies for just one location. If other locations need to have policies similar to the ones already defined, you can **Copy** the policies from the first location and **Paste** them to the other locations.
Copy allows you to copy one or all policy groups customized for a particular location to another location. If all the policy groups for a location are inherited from its parent, you cannot copy policies from that location.
Paste allows you to paste the policies to a policy group on any location. By pasting a policy group on a location inheriting that policy group, the inheritance is broken.

Copying and Pasting all Local Policies

Use the following steps to copy and paste all Local policies:

1. Right-click a location from the **Location** tree which you choose to copy (source location).
2. From the resultant context-sensitive menu, select **Copy Local Policies for** '**<Location Name>'**.
3. Select **All Local Policy Groups** or **Policy Group-**'**<Policy Group Name>**'. The **Policy Group-**'**<Policy Group Name>**' option is available only if a policy group node is selected in the Administration tree.



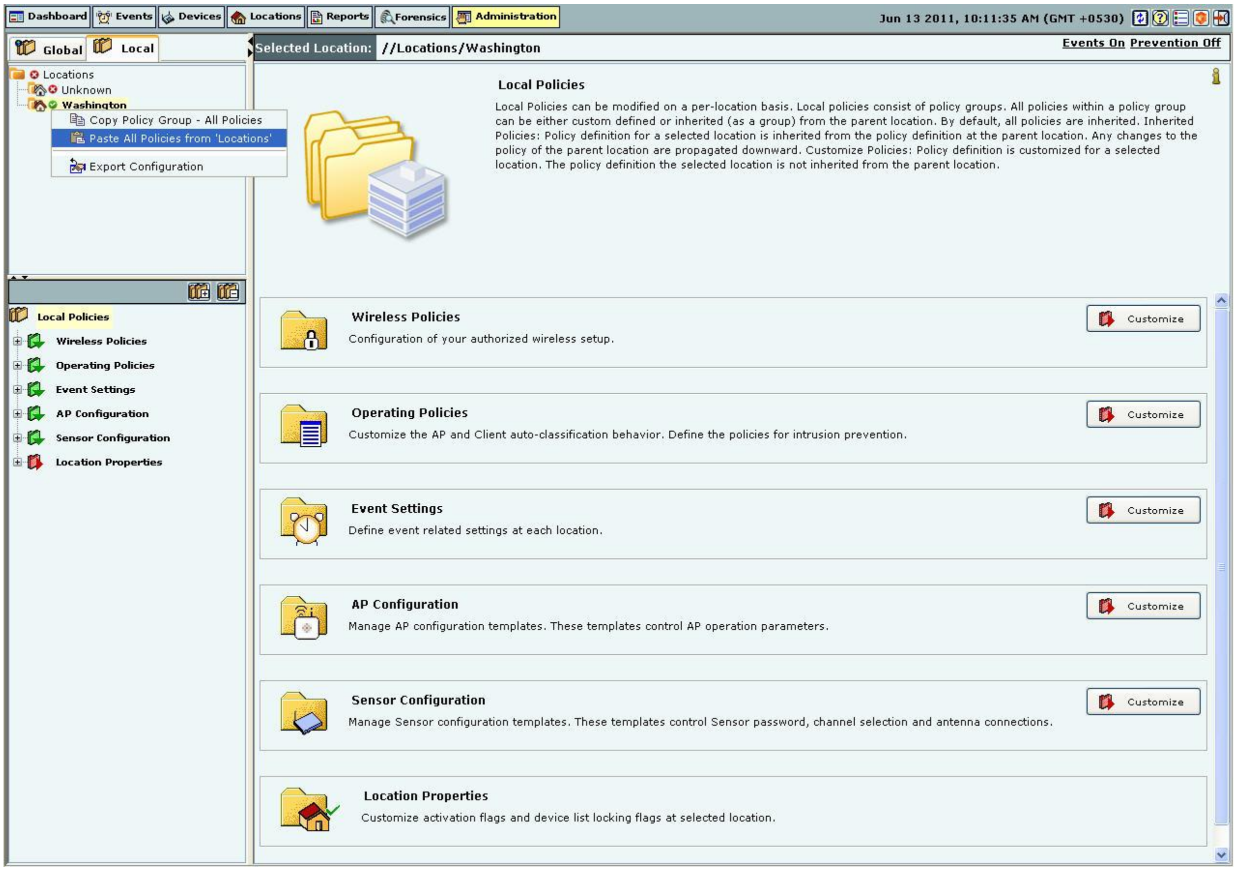
Selected Location: //Locations/Unknown

Authorized WLAN Setup
Configuration of your authorized WLAN APs.

Copying all Local Policies

4. Right-click a location to which you want to paste the copied policies.

5. From the resultant context-sensitive menu, select **Paste All Policies from** ‘**<Location Name>**’ or **Paste** ‘**<Policy Group Name>**’ **from** ‘**<Location Name>**’. The **Paste All Policies from** ‘**<Location Name>**’ is displayed if all the policies were copied during the copy operation. The **Paste** ‘**<Policy Group Name>**’ **from** ‘**<Location Name>**’ option is displayed if only a policy group is copied during the copy operation.



Local Policies

Local Policies can be modified on a per-location basis. Local policies consist of policy groups. All policies within a policy group can be either custom defined or inherited (as a group) from the parent location. By default, all policies are inherited. Inherited Policies: Policy definition for a selected location is inherited from the policy definition at the parent location. Any changes to the policy of the parent location are propagated downward. Customize Policies: Policy definition is customized for a selected location. The policy definition the selected location is not inherited from the parent location.

Wireless Policies
Configuration of your authorized wireless setup.

Operating Policies
Customize the AP and Client auto-classification behavior. Define the policies for intrusion prevention.

Event Settings
Define event related settings at each location.

AP Configuration
Manage AP configuration templates. These templates control AP operation parameters.

Sensor Configuration
Manage Sensor configuration templates. These templates control Sensor password, channel selection and antenna connections.

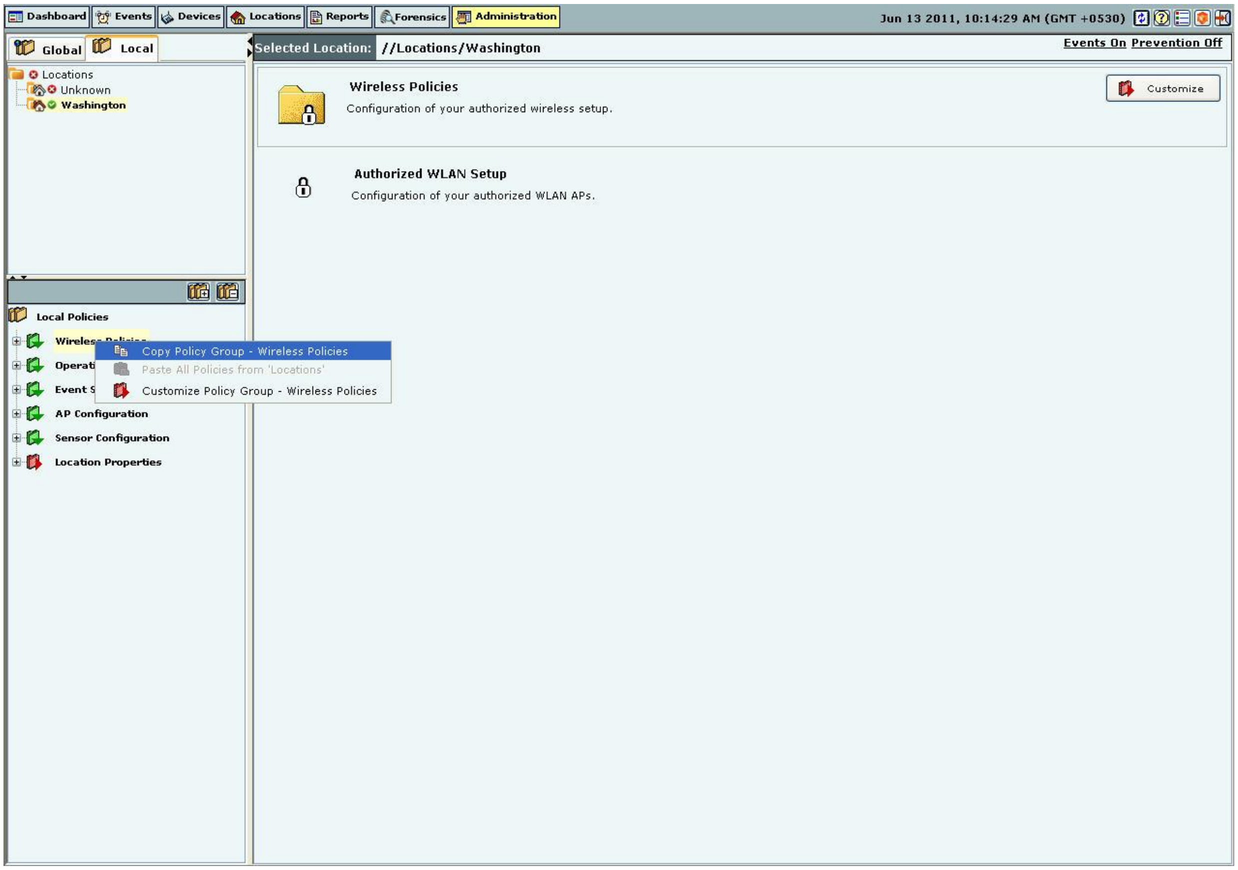
Location Properties
Customize activation flags and device list locking flags at selected location.

Pasting all Local Policies

Copying and Pasting a Local Policy Group

Use the following steps to copy and paste a Local policy group:

1. Right-click a location from the **Location** tree.
2. Right-click a policy group from the **Administration** tree which you choose to copy.
3. From the resultant context-sensitive menu, select **Copy Policy Group-**‘**<Policy Group Name>**’.


Dashboard
Events
Devices
Locations
Reports
Forensics
Administration
Jun 13 2011, 10:14:29 AM (GMT +0530)
Global
Local
Selected Location: //Locations/Washington
Events On
Prevention Off
Locations
Unknown
Washington
Wireless Policies
Configuration of your authorized wireless setup.
Customize
Authorized WLAN Setup
Configuration of your authorized WLAN APs.
Local Policies
Wireless Policies
Operati
Event S
AP Configuration
Sensor Configuration
Location Properties
Copy Policy Group - Wireless Policies
Paste All Policies from 'Locations'
Customize Policy Group - Wireless Policies

Copying a Local Policy Group

4. Right-click a location to which you want to paste the copied policies.
5. From the resultant context-sensitive menu, select **Paste** ‘**<Policy Group>**’ **from** ‘**<Location Name>**’.

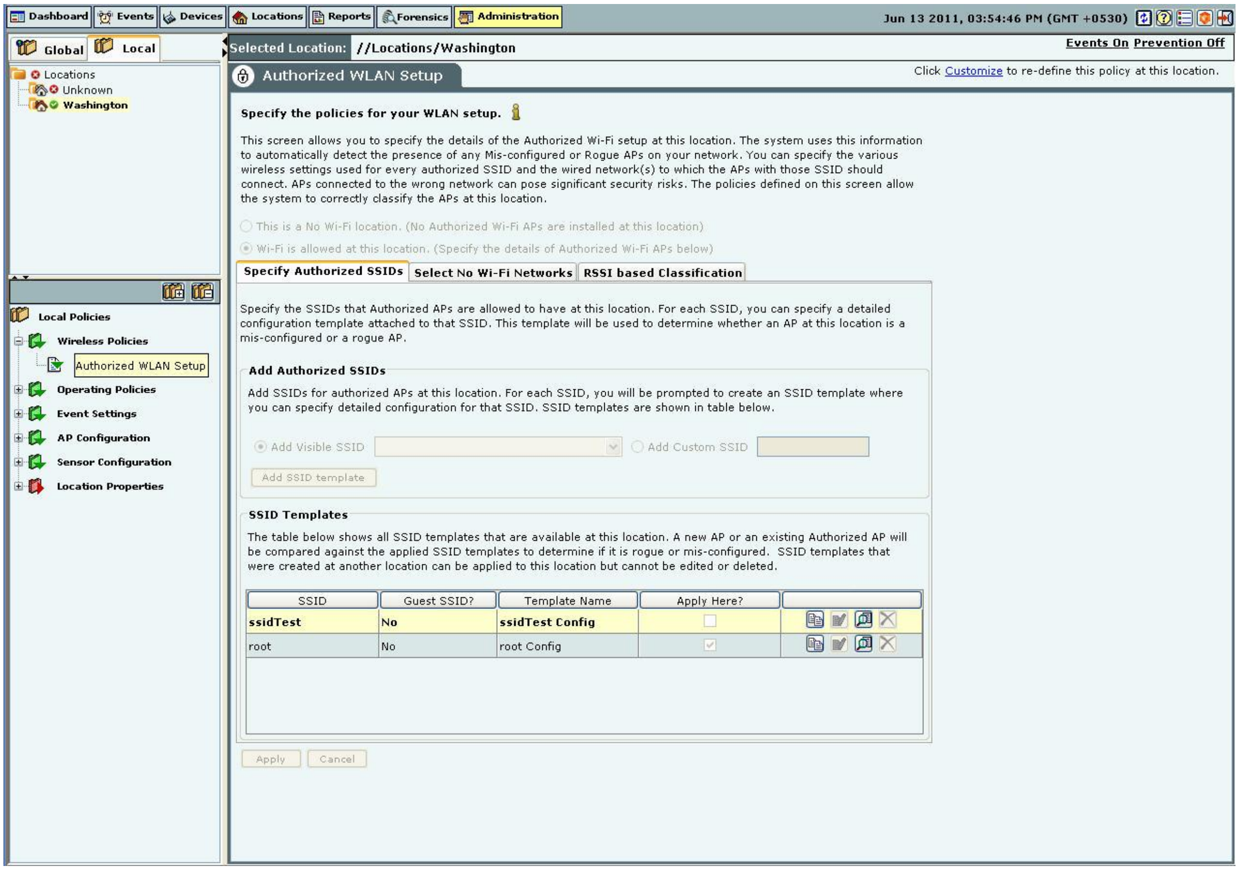
Note: *The copy operation is* ***not*** *allowed if no local policy group is custom defined or customized on that location.*

Wireless Policies-Authorized WLAN Setup

Select the **Wireless Policies** screen to specify the Authorized Wi-Fi policies for a particular location.

Authorized WLAN Setup

The system uses the details of the Authorized Wi-Fi setup at a particular location to detect the presence of Mis-configured or Rogue APs in your network. You can specify the details of authorized SSIDs and a list of networks to which Authorized APs can connect.



Selected Location: //Locations/Washington

Click Customize to re-define this policy at this location.

Specify the policies for your WLAN setup.

This screen allows you to specify the details of the Authorized Wi-Fi setup at this location. The system uses this information to automatically detect the presence of any Mis-configured or Rogue APs on your network. You can specify the various wireless settings used for every authorized SSID and the wired network(s) to which the APs with those SSID should connect. APs connected to the wrong network can pose significant security risks. The policies defined on this screen allow the system to correctly classify the APs at this location.

○ This is a No Wi-Fi location. (No Authorized Wi-Fi APs are installed at this location)

● Wi-Fi is allowed at this location. (Specify the details of Authorized Wi-Fi APs below)

Specify the SSIDs that Authorized APs are allowed to have at this location. For each SSID, you can specify a detailed configuration template attached to that SSID. This template will be used to determine whether an AP at this location is a mis-configured or a rogue AP.

Add Authorized SSIDs

Add SSIDs for authorized APs at this location. For each SSID, you will be prompted to create an SSID template where you can specify detailed configuration for that SSID. SSID templates are shown in table below.

● Add Visible SSID ○ Add Custom SSID

SSID Templates

The table below shows all SSID templates that are available at this location. A new AP or an existing Authorized AP will be compared against the applied SSID templates to determine if it is rogue or mis-configured. SSID templates that were created at another location can be applied to this location but cannot be edited or deleted.

SSID	Guest SSID?	Template Name	Apply Here?
ssidTest	No	ssidTest Config	□
root	No	root Config	☑

Authorized WLAN Setup

Select one of the following to characterize a particular location:

- **This is a No Wi-Fi location:** If no Authorized Wi-Fi APs are installed at this location. If you configure a location as a no Wi-Fi location, the **Specify Authorized SSID** section is grayed out.
- **Wi-Fi is allowed at this location:** To specify the details of the Authorized Wi-Fi APs in this location.

Specify Authorized SSIDs

Under this tab, specify the Authorized SSIDs at this location. For each SSID, you can specify the detailed configuration. This per SSID configuration is called an SSID template.
Creating a Configuration Template for an Authorized 802.11 SSID
Add Authorized SSIDs allows you to create an SSID template in one of the following ways:

- **Add Visible SSID:** To create an SSID template from a list of visible SSIDs. The visible SSID list is built using the data received from sensors.
- **Add Custom SSID:** To create a template using a user-defined SSID.

Click **Add SSID template** to create a new SSID template. The **Template for an Authorized 802.11 SSID** dialog appears where you can select multiple items in some fields.