

Pharos Control User Guide

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Chapter 1 Quick Start Guide

1.1 Introduction

Pharos Control is a client-server based network management system application that allows for the centralized management and maintenance over the entire network formed by TP-LINK Pharos devices. It provides the following main features:

- Discover Pharos devices in the same subnet with the server.
- Connect devices and monitor their status: The Pharos Control server will monitor the status updates of those devices under management.
- Firmware upgrade: Devices under management can be upgraded from the Pharos Control. Multiple devices can be upgraded synchronously as a batch.
- Task Schedule: Automatically execute device discovery, reboot and firmware update tasks. These tasks can be performed once or periodically.
- Device configuration backup and restore: Backup or restore multiple device configurations remotely.
- Device statistics/graphs: Display the attributes of the device in the device details list and the graph view. Attributes in the graph can be customized and plotted for a period of time.
- Device grouping: Provide a device tree for navigation and device selection. The built-in auto grouping is categorized as managed and unmanaged. Users can also customize device groups in the manual grouping branch.
- Log, error and debug history: Record the system's working, error and debugging history.
- C/S architecture: Allow multiple users to access one single server. Users can be assigned different access levels (administrator, manager and guest).

1.2 Installation

Pharos Control server is an application typically hosted on a machine within the private network, together with the managed devices. Users can login the server through the Pharos Control client from anywhere on the network or over the Internet.

The server is meant to run continuously, to monitor and collect statistics about the managed devices. It is possible to run the server and client on the same machine, and launch the server on-demand, but this is not recommended.

System requirements for the server primarily depend on the number of the managed devices and the frequency of statistic updates from those devices. A single core machine with 512M dedicated

RAM may be able to serve around 50 devices while a few thousand managed devices may require a better performing multi-core machine with 2-3GB dedicated memory. The server and client installers are provided for windows XP/Vista/7/8 and Server.

Server and Client Location: Ensure the managed devices are in the same subnet with the server on which the Pharos Control server is installed. The client machine can be either in the subnet with the server or in the Internet. Just make sure there is network connectivity between the client machine and the server.

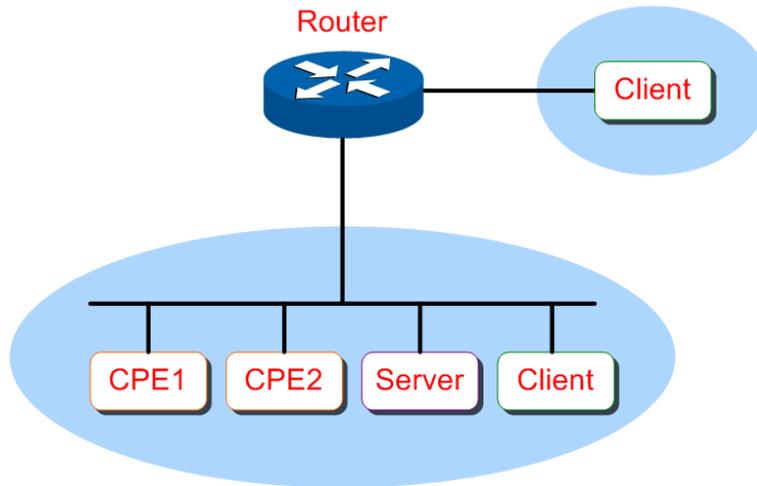


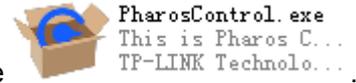
Figure 1-1 Server-Client Location

Installation procedure:

If an earlier version of the application is present on your computer, please uninstall it and install the latest version.

Step 1. Go to http://www.tp-link.com/resources/software/PharosControl_v1.0.7.zip to download the software.

Step 2. Unzip the file and double click the PharosCtrl.exe file



Please wait for the InstallShield Wizard preparing the setup shown as the following screen.

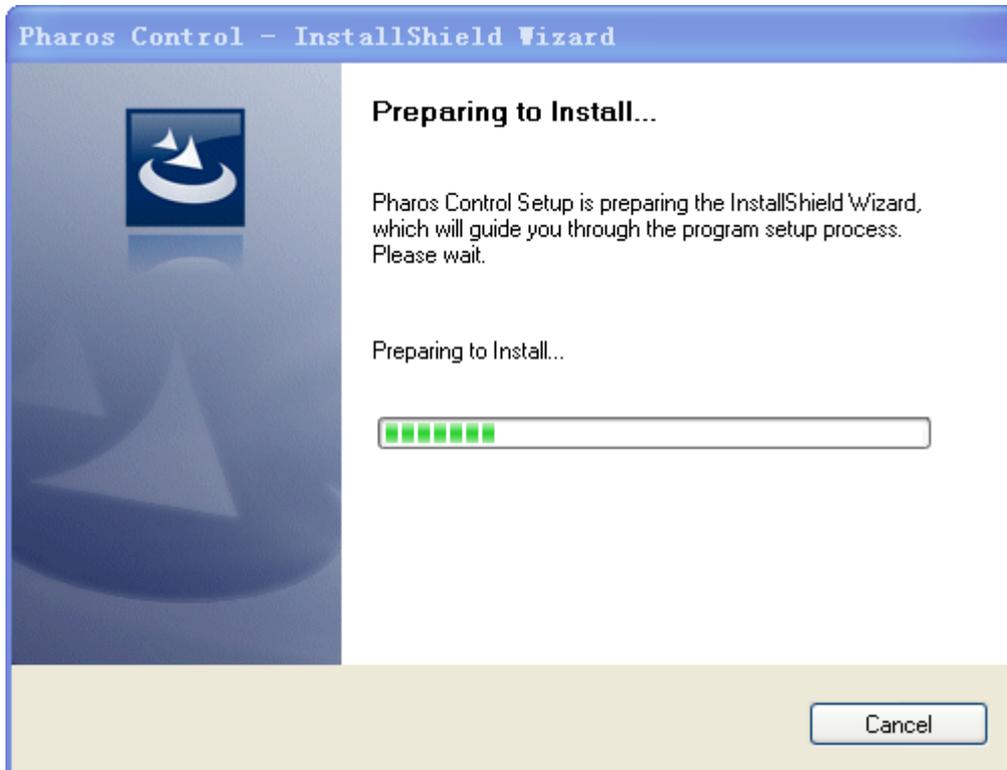


Figure 1-2 Preparing to Install

Step 3. Then the following screen will appear. Please close all the antivirus software for the installation and click **OK** to continue.

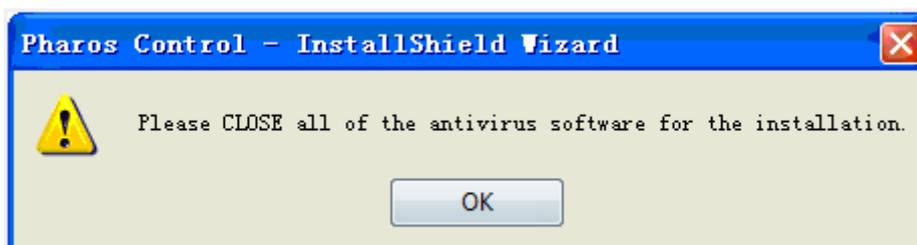


Figure 1-3 Close all the Antivirus Software

Step 4. Then the following screen will appear. Click **Next** to continue. If you want to stop the installation, click **Cancel**.

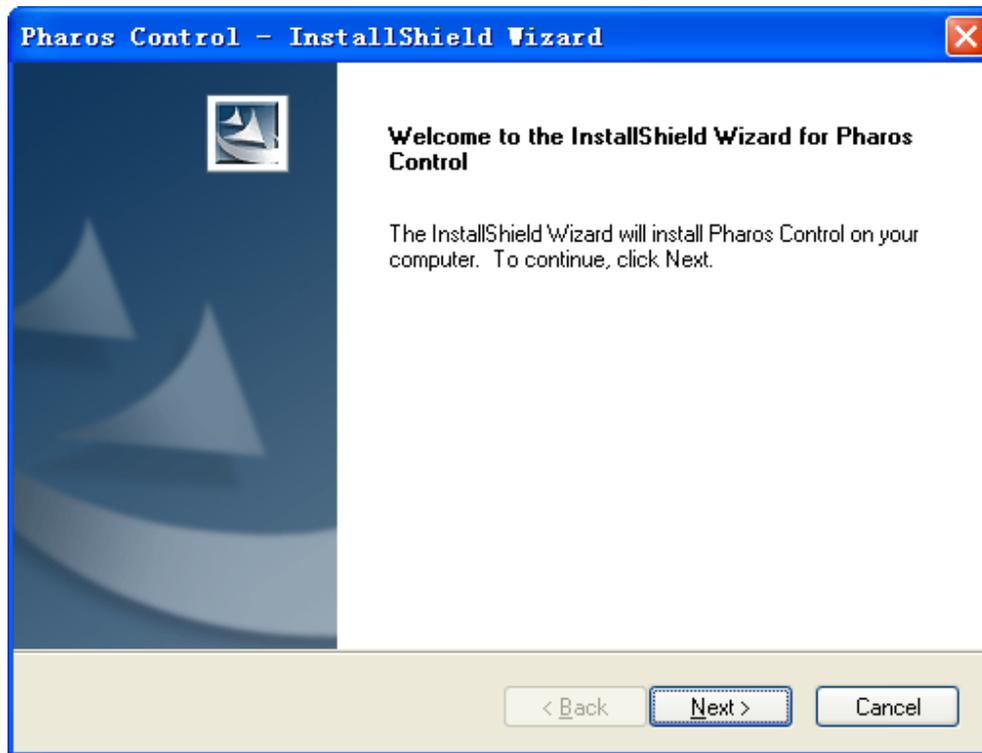


Figure 1-4 Welcome to the InstallShield Wizard

Step 5. Choose the destination location for the installation files and click **Next** to continue.

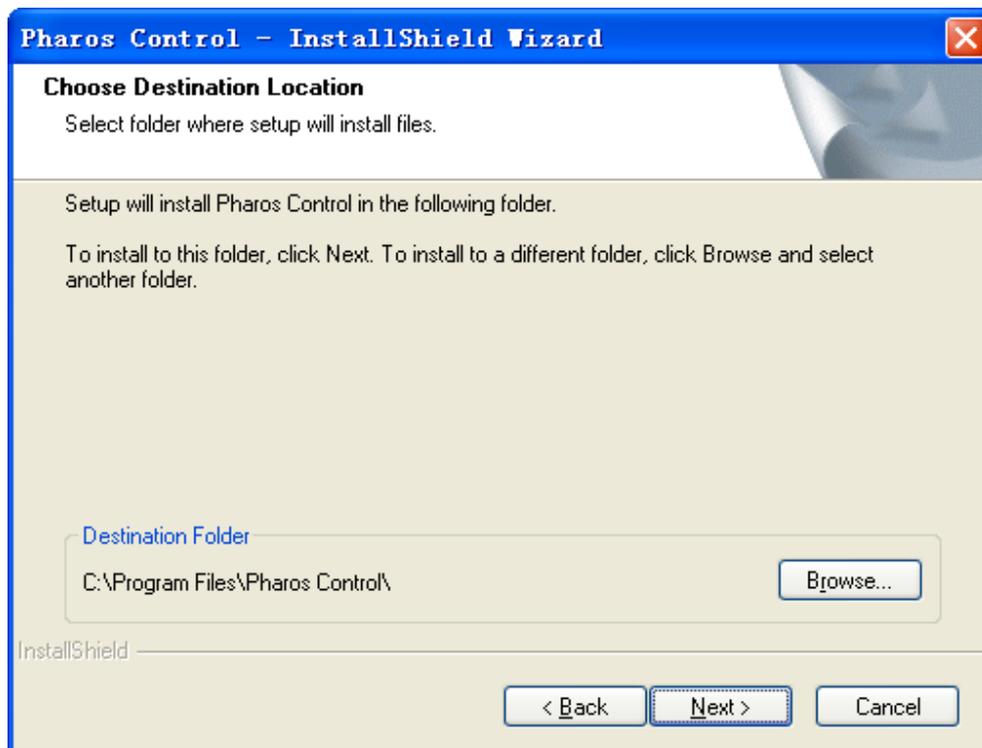


Figure 1-5 Choose Destination Location

By default, the installation files are saved on the Program Files folder of system disk. Click the **Browse** button to modify the destination location as needed.

Step 6. Take server's installation as an example here. Select **Pharos Control Server** and click **Next**.

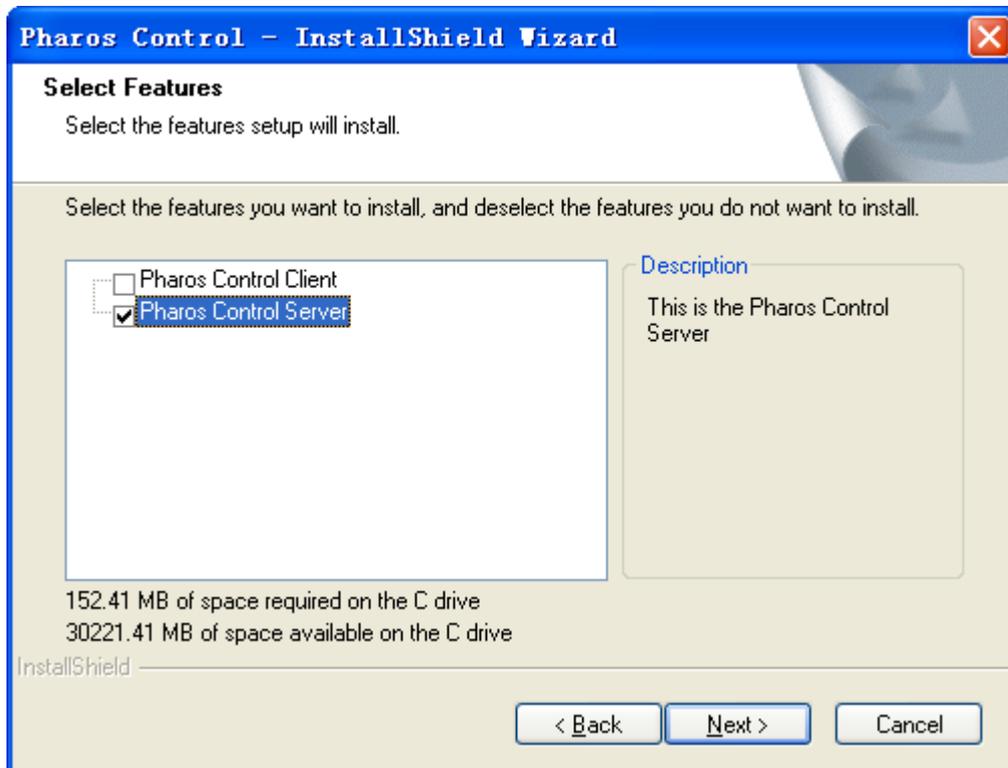


Figure 1-6 Install the Software

Step 7. The following screen shows the default settings of the server. You can customize the server port number, the username and password here. Click **Next** to continue.

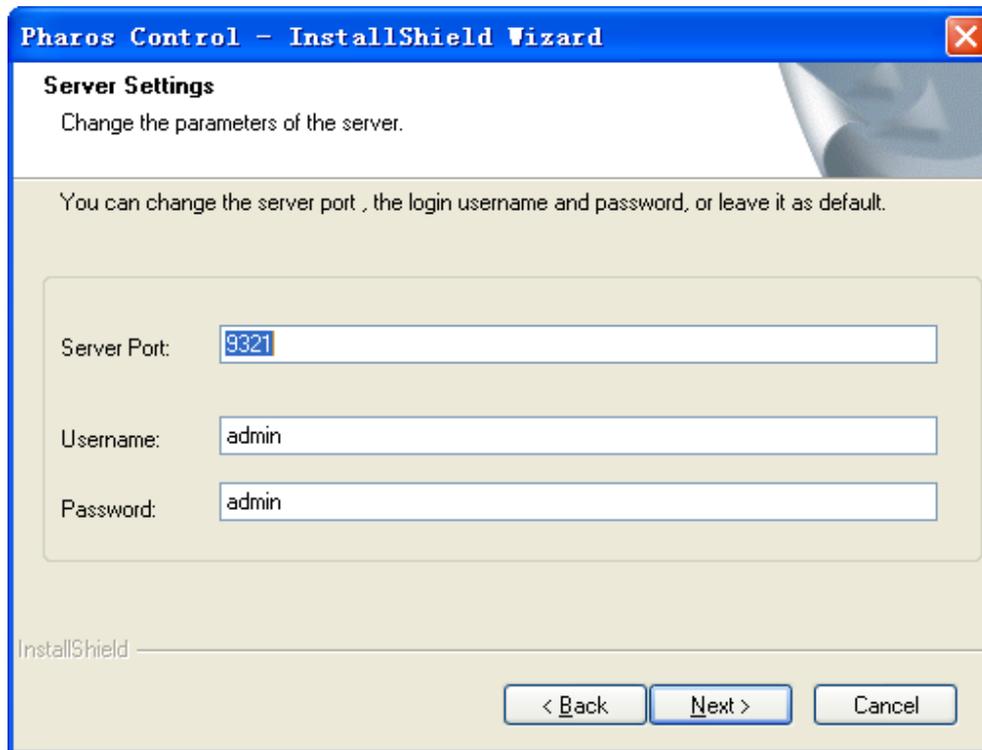


Figure 1-7 Server Config

Step 8. Till now, the Wizard is ready to begin the installation. Click **Next** to start the installation on the following screen.

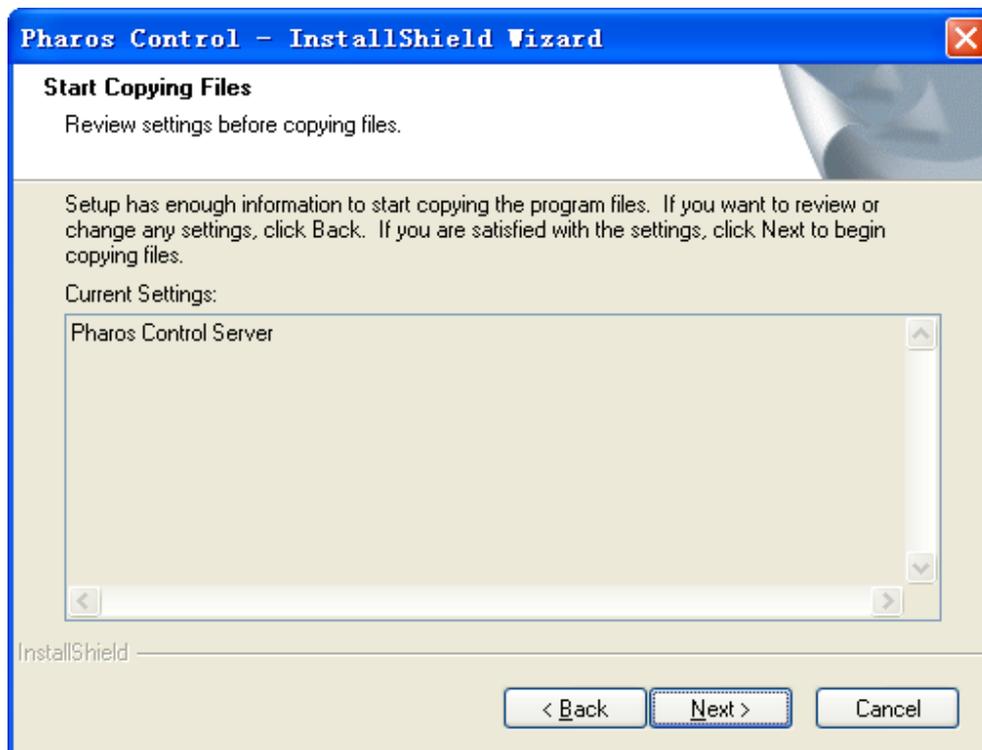


Figure 1-8 Start Installation

Step 9. The InstallShield Wizard is installing the software, shown as the following screen. Please wait.

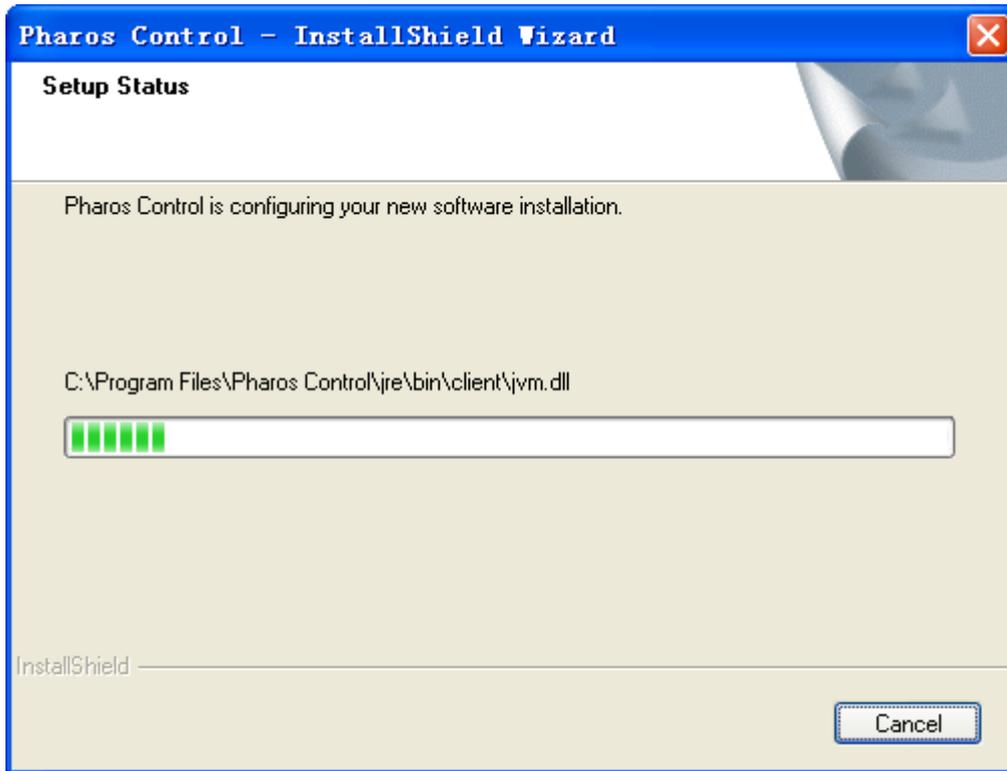


Figure 1-9 Setup Status

Step 10. On the following screen, click **Finish** to complete the installation and launch the Pharos Control Server.

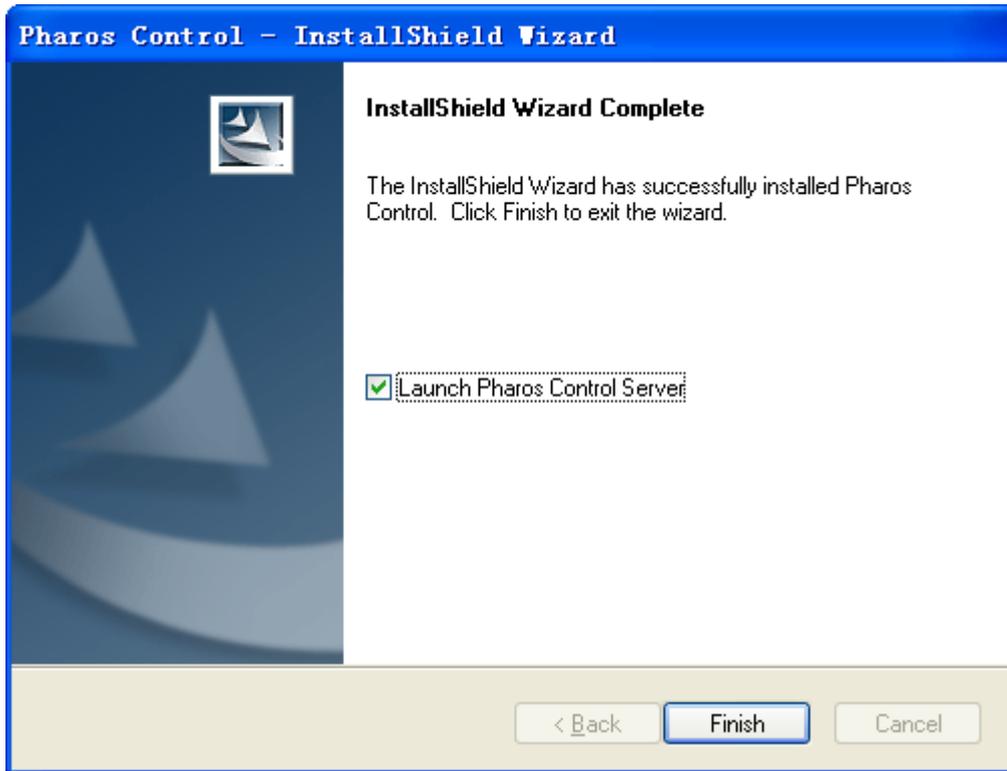


Figure 1-10 Complete Installation

1.3 Before Login

Ensure the server is reachable from the client before login. If the server is behind a NAT gateway, please refer to the gateway's reference guide to open the corresponding port as configured in Figure 1-7 if you want to access the Pharos Control Server from the Internet.

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Chapter 2 Pharos Control Interface

2.1 Pharos Control Server

Double click  at the bottom right corner of the taskbar to open the Pharos Control Server Monitor Window:

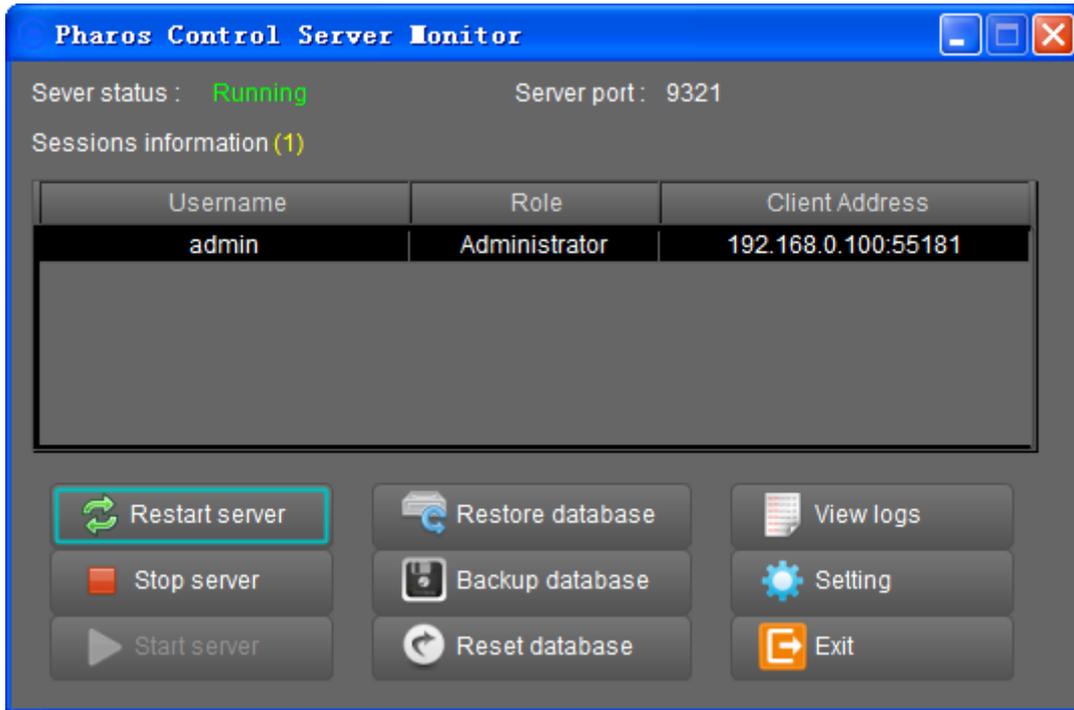


Figure 2-1 Server Monitor

The upper half of the window displays the running status of the server. The lower half contains corresponding operation buttons.

Server status: Displays the server's status.

Server port: Displays the server's listening port number.

Sessions Information: The user information connecting to the server, including Username, Role and Client Address. Right click an entry and choose  to disconnect the specified client.

 : Restart the server.

 : Restore the database with a previous backup.

-  : View the running logs of the server.
-  : Shut down the server.
-  : Backup the database.
-  : Configure the Server's port and whether it will run automatically at boot.
-  : Start the server.
-  : Reset the server to factory settings, which will lose the user's current configuration.
-  : Shut down the server and close this window.

The operations above are also available by right clicking  :

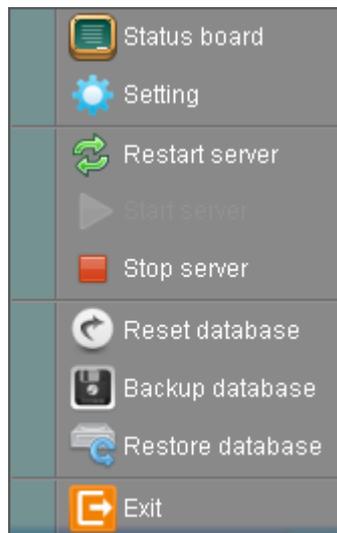
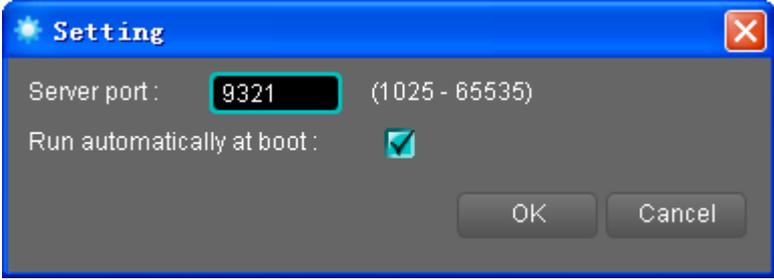


Figure 2-2 Server Settings

 Status board	Open the Server Monitor Window.
 Setting	Configure the Server's port and whether it will run automatically at boot. 
 Restart server	Restart the server.
 Start server	Start the server.
 Stop server	Shut down the server.
 Reset database	Reset the server to factory settings, which will lose the user's current configuration.
 Backup database	Backup the database.
 Restore database	Restore the database with a previous backup.
 Exit	Shut down the server and close this window.

2.2 Pharos Control Client

2.2.1 Login

Open the Pharos Control Client and enter the Server's IP address, port (by default 9321), Username and Password (by default both are admin).

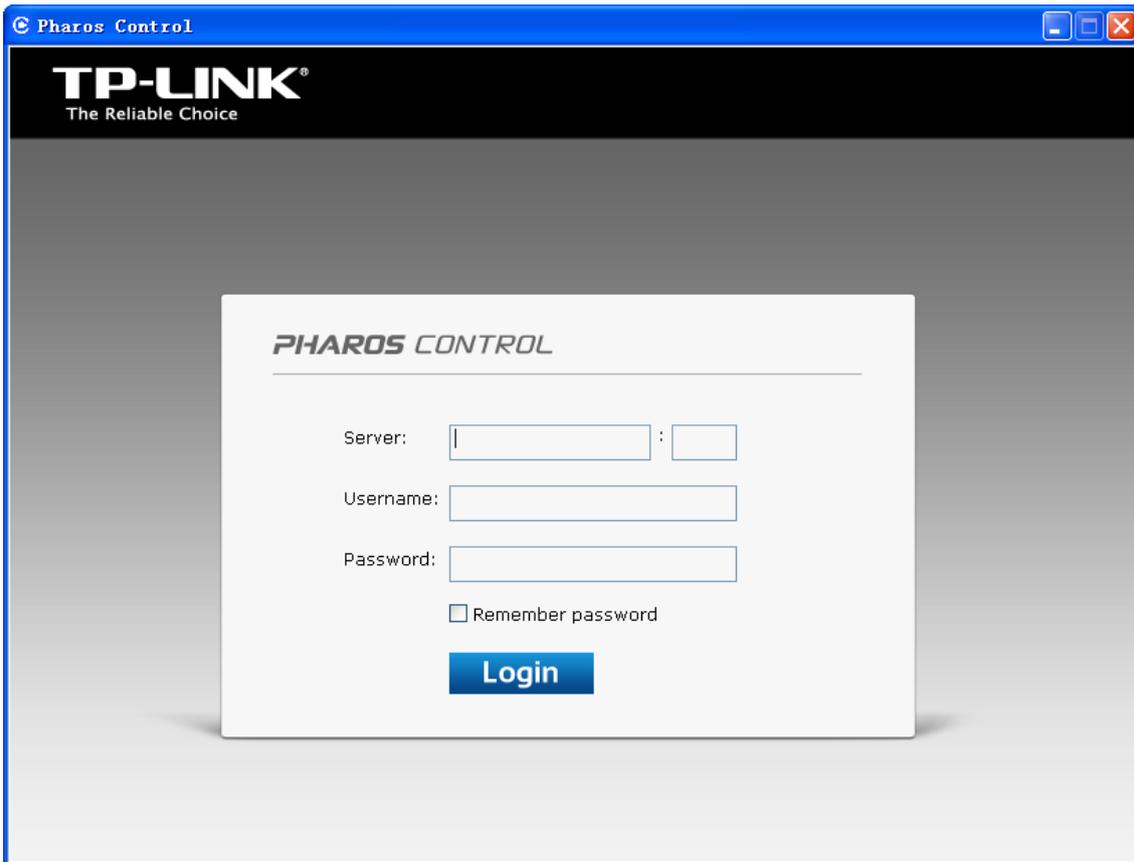


Figure 2-3 Login the Client

2.2.2 Client Interface Overview

The Client's typical interface is shown as Figure 2-4. Section A is entry category. Section B is entries under the selected category and the corresponding buttons. Section C is the detailed information of the selected entry. The red box marked at the top of this window is the notification message box.

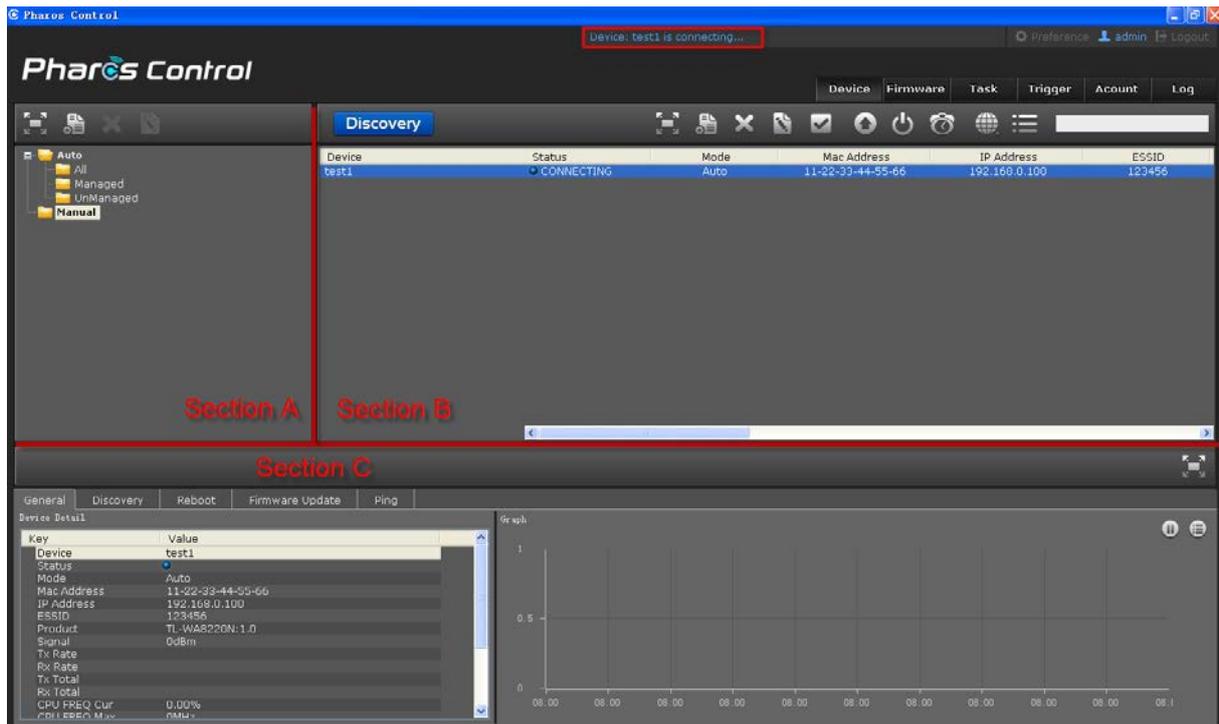


Figure 2-4 Typical Interface

2.2.3 Navigation

Use the top level navigation tabs to access different functions.



Figure 2-5 Navigation Tabs

Device page displays Pharos devices managed by Pharos Control.

Firmware page allows managing firmware files saved in the Pharos Control Server.

Task page allows viewing and editing scheduling tasks.

Trigger page allows managing triggering rules and events.

Account page allows viewing and managing all the users' accounts.

Log page contains log information about Pharos Control System and managed devices.

There are three setting buttons at the top right corner of the window:



Figure 2-6 Settings

For **Preference** and **admin**, please refer to [Chapter 9](#) and [Chapter 10](#).

Logout: Click to logout the Client.

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Chapter 3 Device

Device Tab is used to view and classify the Pharos devices for ease of navigation, including **Device Classification**, **Device List** and **Device Details**.

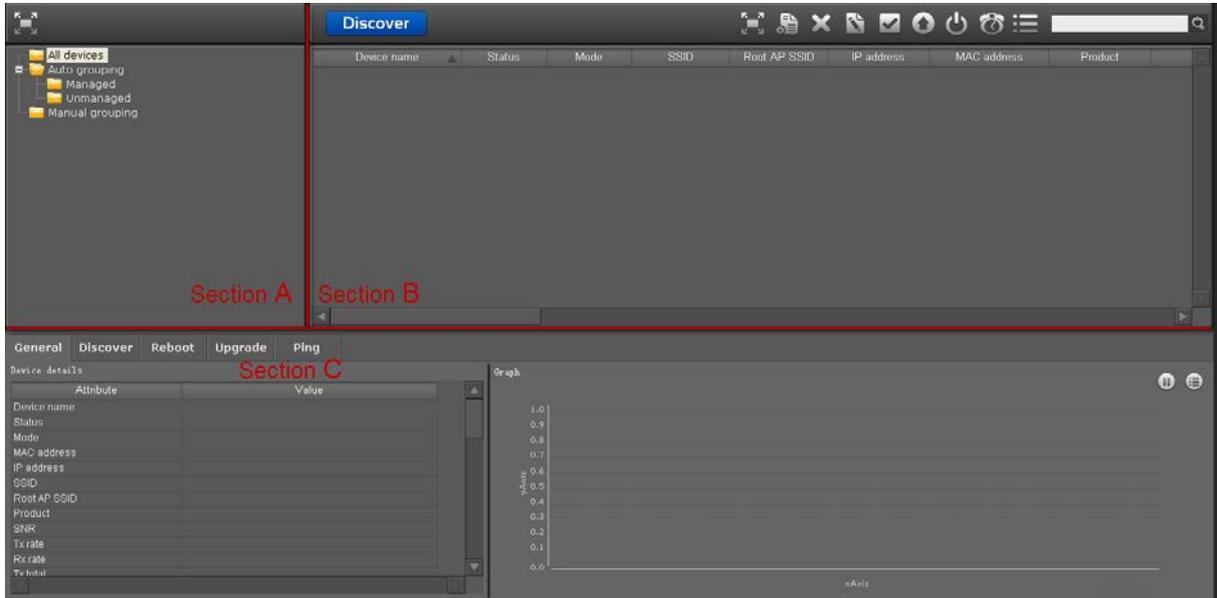


Figure 3-1 Device Tab

3.1 Device Classification

Device Classification is in Section A of the **Device Tab**.



Figure 3-2 Device Classification

Devices can be categorized into several groups in Section A. “All devices” and “Auto grouping” are dynamic groups, in which devices are automatically added and removed. Under the “Auto grouping”, Managed and Unmanaged are built-in groups. User can also create a new group and define its corresponding search criteria. This group will automatically contain devices based on the preset criteria. “Manual grouping” is a static group, and users can customize new categories under this group and add devices in **Device List** section to these categories.

Entry Introduction:

- All Devices: Lists all the Pharos devices.
- Auto Grouping: Devices in Auto Grouping are selected according to certain criteria automatically. The Managed and Unmanaged groups are built-in and undeletable.
 - Managed: Displays Pharos devices under management.
 - Unmanaged: Displays Pharos devices that are discovered but unmanaged by Pharos Control.

Under the Auto grouping, click  to customize a new group and configure the grouping conditions, as shown in Figure 3-3. Several conditions can be combined with AND-OR logic.

Figure 3-3 Customized Group

- **Manual Grouping:** Devices in this static group are added or removed by the users manually.

Operations:

	Maximize the current window.
	Add a new group.
	Delete the selected group.
	Edit the name of the selected group.

 **Note:**

The **Managed** and **Unmanaged** folder under Autogrouping cannot be edited or deleted.

3.2 Device List

Device List is in Section B of the **Device Tab**.

Device name	Status	Mode	SSID	Root AP SSID	IP address	MAC address	Product
CPE210 - 192.168.0.254	Managed	AP Router	TP-LINK_Outdoor_...	N/A	192.168.0.254	E0-05-C5-AA-BB-CF	CPE210:1.0

Figure 3-4 Device List

Device List displays the device information of the selected group.

Entry Introduction:

Device name:	Name of the device.
Status:	<p>Status of the device, including Managed, Unmanaged or Error. Managed indicates the device is reachable and under management.</p> <p>Unmanaged indicates the device either cannot reach Pharos Control or is down. It's also the device's initial status in Pharos Control.</p> <p>If you try to manage a device which is unreachable or is down, its status will change to Error.</p> <p>Figure 3-5 shows details of the status transition.</p>
Mode:	The device's operation mode, including Access Point, Client, Repeater, Bridge, AP Router and AP Client Router.
SSID:	The device's SSID.
Root AP SSID:	Displays the SSID of the device's root AP when it is in the following mode: Client, Repeater, Bridge and AP Client Router.
IP Address:	The device's IP address.
MAC Address:	The device's MAC address.

Product:	The device's model and version.
Version:	The device's software version.
SNR:	Signal Noise Ratio.
Tx Rate:	Displays the data rate at which the device transmits wireless packets.
Rx Rate:	Displays the data rate at which the device receives wireless packets.
Tx Total:	The total wireless packets that the device has transmitted.
Rx Total:	The total wireless packets that the device has received.
CPU Usage:	The device's CPU usage.
CPU Frequency:	The device's CPU frequency.
Memory Usage:	The device's memory usage.
Memory Size:	The device's memory size.
Client Number:	Displays the number of clients that connect to the device wirelessly.
CCQ:	Client Connection Quality.
Description:	The description of the device.

You can sort the entries on a specific column by simply clicking the column name.

The following figure shows the device's status transition in Pharos Control.

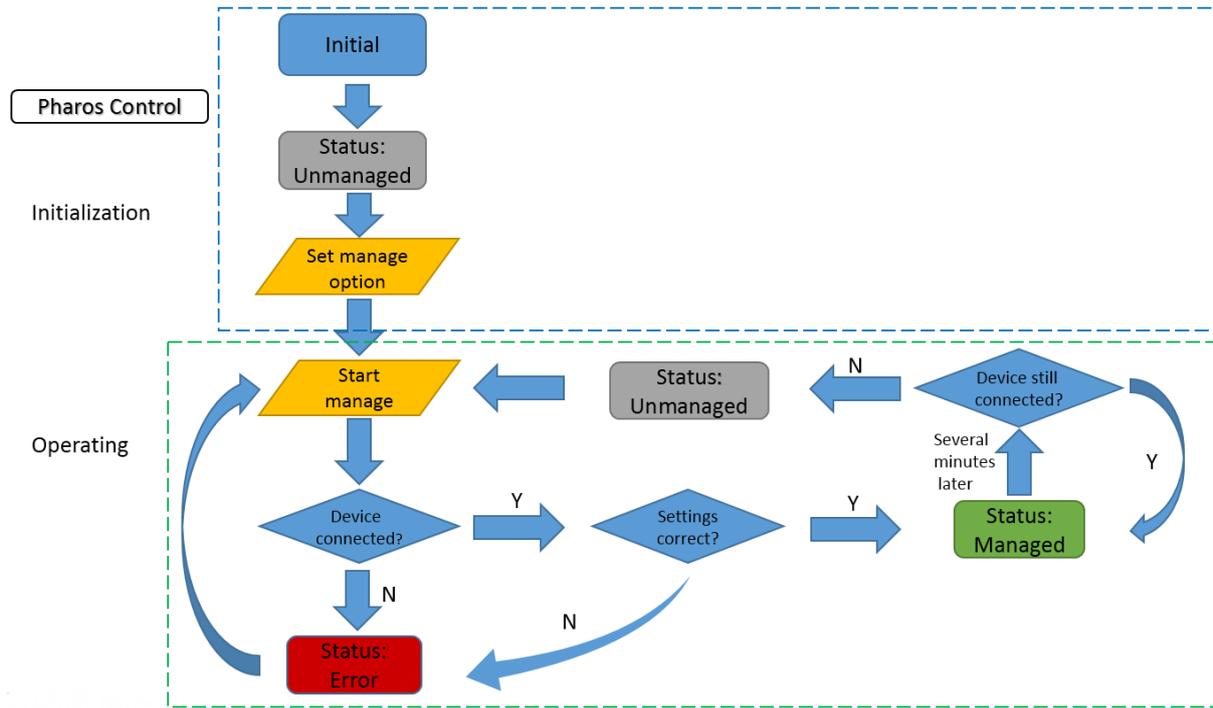
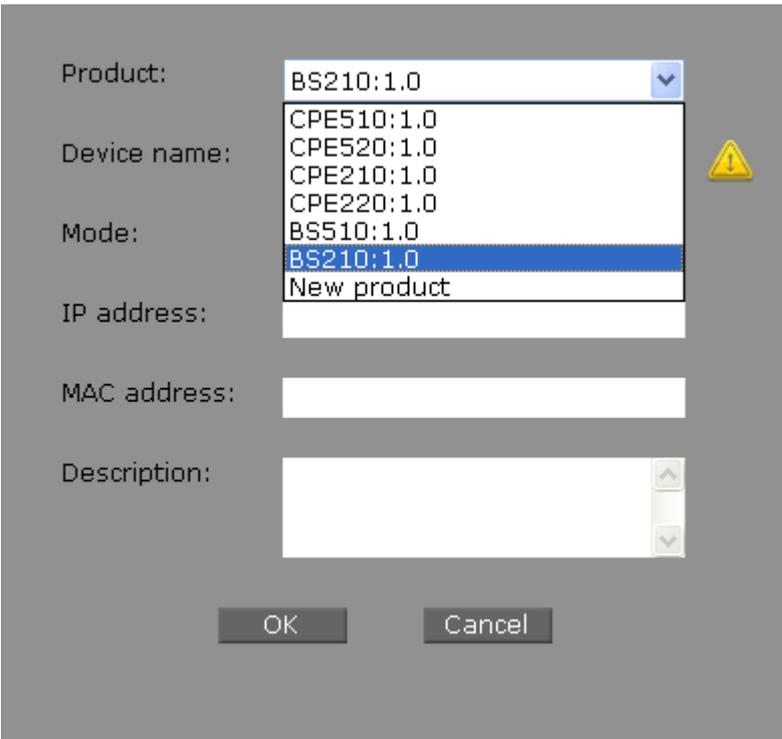


Figure 3-5 Status Transition

Operations:

<div style="background-color: #0056b3; color: white; padding: 5px; text-align: center; font-weight: bold; font-size: 1.2em;">Discover</div>	<p>Search the devices in the same subnet with the server. The discovering process and results are displayed in the Device Details window. Ensure the Discovery function is enabled on the Management Tab->Miscellaneous page of the Pharos series products, so that they can be discovered by Pharos Control.</p>
	<p>Maximize the current window.</p>

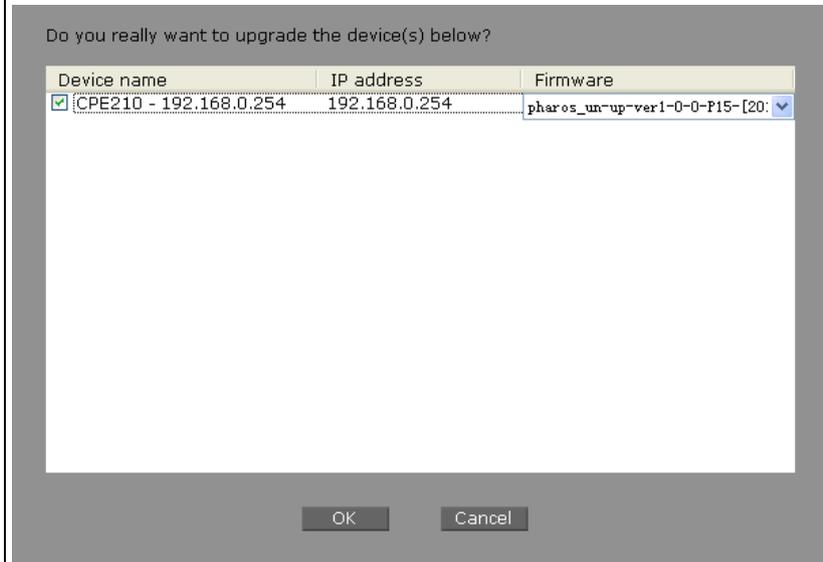
	<p>Add a new device model manually.</p>  <p>Enter the related information of the device to be added and click OK to save.</p> <p>Product: Select the device model from the pull-down list.</p> <p>Device Name: Enter the device's name.</p> <p>Mode: Select the device's operation mode from the pull-down list, including Auto, Access Point, Client, Repeater, Bridge, AP Router and AP Client Router.</p> <p>IP Address: Enter the device's IP address.</p> <p>MAC Address: Enter the device's MAC address.</p> <p>Description: Enter the device's description (optional).</p>
	<p>Delete the selected device.</p>

	<p>Click to edit the information of the selected device.</p>  <p>Edit the related information of the selected device and click OK to save.</p> <p>Product: Select the device model from the pull-down list.</p> <p>Device Name: Edit the device's name.</p> <p>Mode: Select the device's operation mode from the pull-down list, including Auto, Access Point, Client, Repeater, Bridge, AP Router and AP Client Router.</p> <p>IP Address: Edit the device's IP address.</p> <p>MAC Address: Edit the device's MAC address.</p> <p>Description: Edit the device's description (optional).</p>
	<p>Select all the devices in the Device List window.</p>



Upgrade the software of the device being managed.

Click this button and the Upgrade confirmation window will pop up. Please note that only the device being managed will show up in this window. For information about how to manage the device, please refer to [Start manage](#).



In this window, select the target device and the corresponding firmware file, and click **OK** to upgrade the device. The firmware files should be uploaded to the server in advance. For details, please refer to [Firmware upload](#).

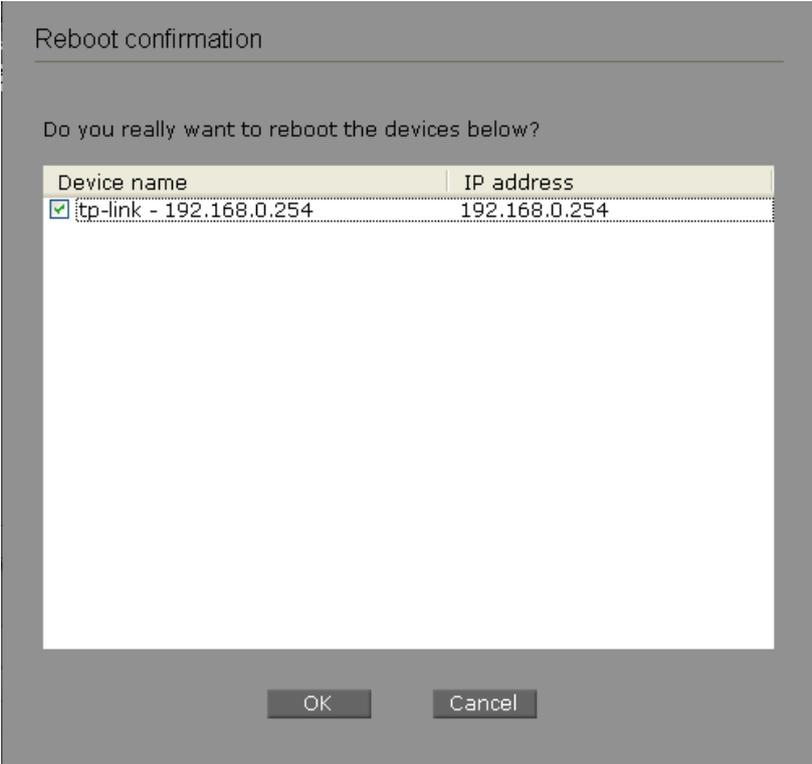
Device name: The device's name.

IP Address: The device's IP address.

Firmware: Select the corresponding firmware file which is saved in the server from the pull-down list.



Reboot the selected devices.
Click this button and the Reboot confirmation window will pop up.



Reboot confirmation

Do you really want to reboot the devices below?

Device name	IP address
<input checked="" type="checkbox"/> itp-link - 192.168.0.254	192.168.0.254

OK Cancel

Select one or multiple devices in this window and click **OK** to reboot them.
Device Name: The device's name.
IP Address: The device's IP address.



Click this button to add scheduled tasks.

Add schedule

Name:

Scheduled

Once
Date: 2013-07-18 0 0

Cycle
From: 2013-07-18 0 0
To: 2013-07-18 0 0
Period: Month Date: 1 Time: 0 0

Task

Task: Discovery

Devices	IP

OK Cancel

Add the scheduled tasks in this window and click **OK** to save.

Name: Enter the scheduled task's name.

Scheduled: Configure the scheduled execution time.

Once: This scheduled task will be executed once.

Date: Specify the task's execution time.

Cycle: This scheduled task will be executed periodically.

From: The start time of the execution period.

To: The end time of the execution period.

Period: The interval at which the task will be executed, such as month, week or day.

Date&Time: The exact time at which the task is executed during the period.

Task: Specify the scheduled action, including Discovery, Reboot and Firmware upgrade. If Reboot is selected, the target devices should be specified in the lists below. If Firmware upgrade is selected, both the target devices and their corresponding firmware files should be specified.



Click the menu button (or right click any device entry below) to display all the operations available. Operations without corresponding buttons are introduced below:

Start manage	
Stop manage	
Edit managing option	
Reboot	
Upgrade	
Ping	
Open web UI	
<hr/>	
Add	
Delete	
Edit	
<hr/>	
Add schedule	
<hr/>	
Add to group	

Start Manage: Select the unmanaged device in the list below to manage it. Its username, password and SSH port number should be configured in advance in [Edit Managing Option](#). Ensure the Remote Management function is enabled on the **Management Tab->SSH Server** page of the Pharos series products, so that they can be managed by Pharos Control.

Stop Manage: Click to stop the management of the selected device being managed now.

Edit Managing Option: Configure the login information of the selected device.

Edit managing option

Username:

Password:

Port:

Enter the login information of the device and Click **OK** to save.

Username: Enter the device's login username.

Password: Enter the device's login password.

Port: Specify SSH port of the device to be managed.

Ping: Click this to ping the selected device.

Ping confirmation

Count: Timeout S

Device name	IP address
<input checked="" type="checkbox"/> tp-link - 192.168.0.254	192.168.0.254

OK Cancel

Configure the parameters related to the ping operation, and click **OK** to save.

Count: The amount of times to send ping request during the test.

Timeout: Specify the timeout time of the ping test.

Device Name: The name of target device.

IP Address: The IP address of target device.

Open Web UI: Open the Web interface of the selected device. It is opened in the default browser by default.

Login



Username:

Password:

TERMS OF USE

This TP-LINK wireless device must be installed by a certified professional. Properly installed shielded Ethernet cable and earth grounding must be used in compliance with this product's warranty. Installers must abide by local rules and regulations in terms of legal frequency channels, output power, and Dynamic Frequency Selection (DFS) requirements. The End User accepts responsibility for maintaining the product in accordance with these rules and regulations. For further information, please visit www.tp-link.com.

Login Clear

Add to Group: Add the selected device to the user-defined group.

- Start manage
- Stop manage
- Edit managing option
- Reboot
- Upgrade
- Ping
- Open web UI

- Add
- Delete
- Edit

- Add schedule

- Add to group ▶ tplink_1

Enter a key word to search all the columns in the device list below, and a partial text match will be highlighted.

Discover router

Device name	Status	Mode	SSID	Root AP SSID	IP address	MAC address	Proc
CPE210 - 192.168.0.254	Managed	AP Router	TP-LINK_Outdoor_...	NA	192.168.0.254	E0-05-C5-AA-BB-CF	CPE210.1

3.3 Device Details

Device Details is in Section C of the **Device Tab**.

Device Details contains 5 sub tabs: **General**, **Discover**, **Reboot**, **Upgrade** and **Ping**. Every sub tab divides into two windows.

General Tab:

The left window of Section C displays the detailed information of the selected device.

Device details

Attribute	Value
Device name	CPE210 - 192.168.0.254
Status	● Managed
Mode	AP Router
MAC address	E0-05-C5-AA-BB-CF
IP address	192.168.0.254
SSID	TP-LINK_Outdoor_AABBCF
Root AP SSID	N/A
Product	CPE210:1.0
SNR	N/A
Tx rate	0.00Kb/s
Rx rate	0.00Kb/s
Tx total	223.00B
Rx total	0.00B

Figure 3-6 Device Details

Attribute: This column displays the name of the device's attribute, including device name, status, mode, MAC address, IP address, SSID, root AP SSID, Product, SNR, Tx rate, Rx rate, Tx total, Rx total, CPU load, CPU frequency, memory usage, memory size, client number, Transmit CCQ, version and description.

Value: The corresponding value of each attribute.

The right window of Section C displays graph for attributes, including memory size, memory usage, CCQ and so on, of the currently selected device. The attributes displayed is customizable and will refresh every one second when the device is online.

Users can choose one or more attributes to form a set, which is displayed below dynamically.



Figure 3-7 Attributes in Graph

 Suspend/Continue the current graphic displaying.

 Click this button to configure the attribute set.

Add set
Manage set

Click **Add set** to add a new attribute set.

Name:

Attribute	Description
<input type="checkbox"/> Tx rate	The sending rate of device.
<input type="checkbox"/> Rx rate	The receiving rate of device.
<input type="checkbox"/> CPU load	The CPU load of device.
<input type="checkbox"/> Memory usage	The free memory of device.
<input type="checkbox"/> Client number	The current clients' number of device.
<input type="checkbox"/> Tx total	The wlan sending rate of device.
<input type="checkbox"/> Rx total	The wlan receiving rate of device.
<input type="checkbox"/> SNR	The SNR of device.
<input type="checkbox"/> Transmit CCQ	The transmit CCQ of device.

Select the attributes to be displayed, and click **OK** to save.

Name: Enter the name of the new attribute set.

Attribute: The name of the attribute.

Description: The description of the attribute.

Tx Rate: Displays the data rate at which the device transmits wireless packets.

Rx Rate: Displays the data rate at which the device receives wireless packets.

CPU Usage: The device's CPU usage.

Memory Usage: The device's memory usage.

Client Number: Displays the number of clients that connect to the device wirelessly.

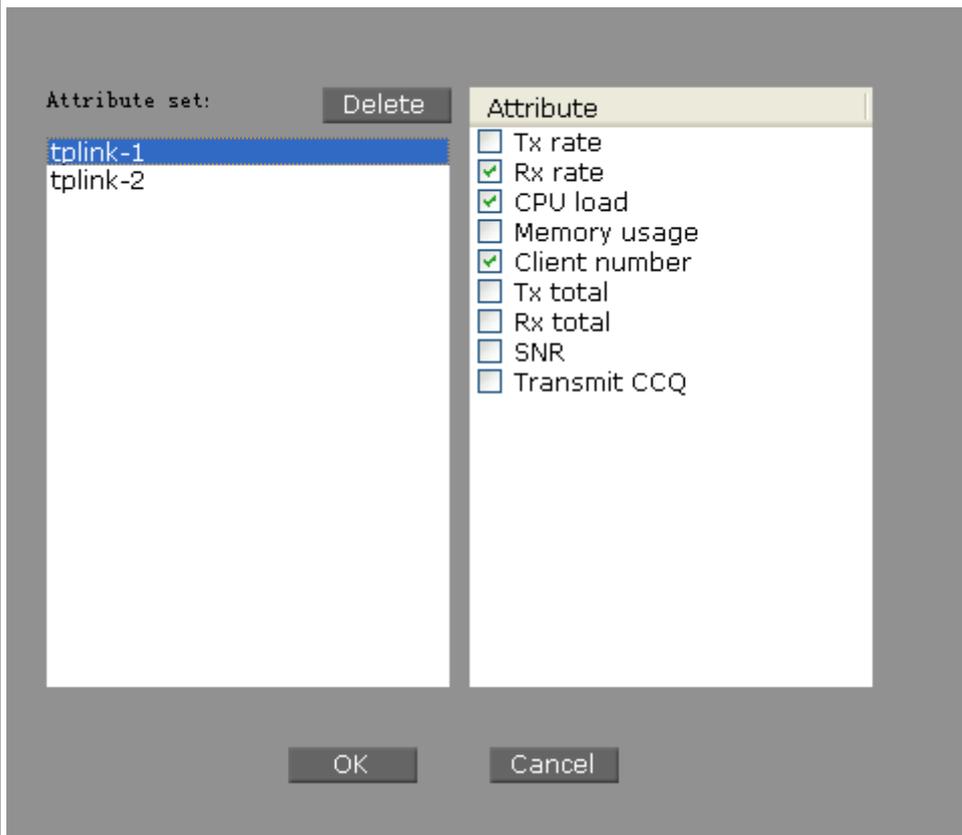
Tx Total: The total wireless packets that the device has transmitted.

Rx Total: The total wireless packets that the device has received.

SNR: Signal Noise Ratio.

CCQ: Client Connection Quality.

Click **Manage set** to configure the existed attribute sets.

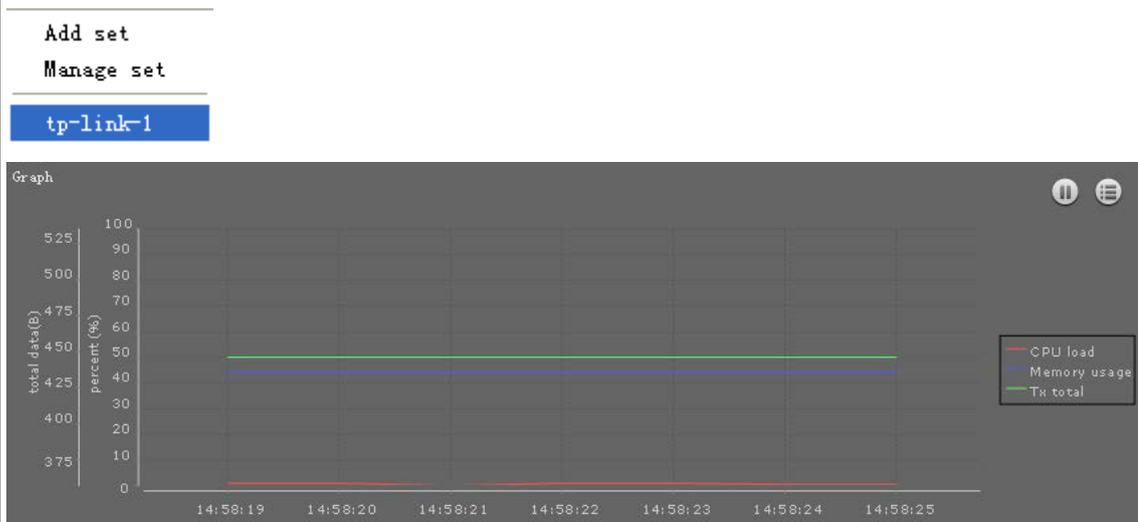


In this window you can edit each set's attributes or delete the set, and click **OK** to save. (Please note that you cannot delete or edit a set's attribute when the set is being displayed.)

Delete: Click this button to delete the selected set.

Attribute: Check the boxes to choose the attributes contained in the selected set.

Select the set to display the changes of its attributes in real-time. (refreshing every second)



The x-axis indicates time in seconds. The y-axes are the corresponding parameters of the selected set.

Discover Tab:

The left window of Section C displays the discovery operation list.

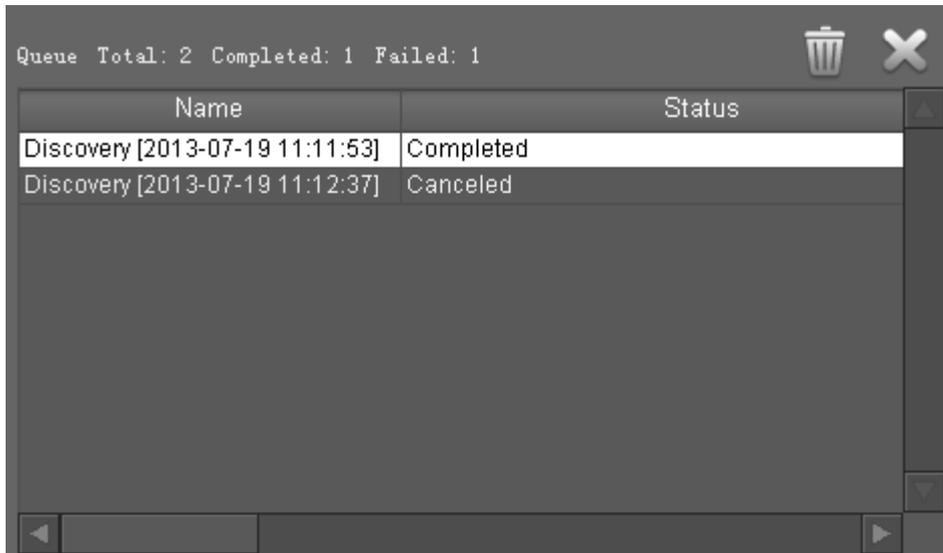


Figure 3-8 Discovery List

Entry introduction:

Queue Total:	The total number of the discovery operations in the list below.
Completed:	The total number of the completed discovery operations in the list below.
Failed:	The total number of the failed discovery operations in the list below.
Name:	Displays the name of the discovery operation distinguished by the time it was carried on.
Status:	Displays the result of the discovery operation.

Operations:

	Clear all the discovery operation lists in this tab.
	Delete the selected discovery operation entry.
	Stop the currently running discovery operation.

The right window of Section C displays the progress bar of the selected discovery operation and its result.

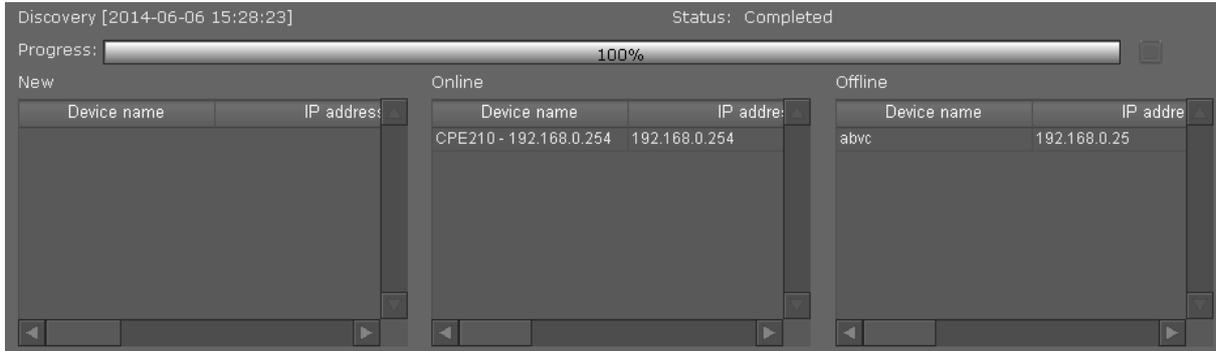


Figure 3-9 Discovery Status

Entry introduction:

Discovery:	The time when the discovery operation begins.
Status:	The status of the discovery operation.
Progress:	The progress of the discovery operation.
New:	This table lists the newly discovered devices in this operation which are not in the list of 3.2 Device List .
Online:	This table lists the discovered devices in this operation which are in the list of 3.2 Device List and are online now.
Offline:	This table lists the discovered devices in this operation which are in the list of 3.2 Device List and are offline now.

Entries in the list:

Device Name:	The name of the device.
IP Address:	The IP address of the device.

Reboot Tab:

The left window of Section C displays the reboot operation list.

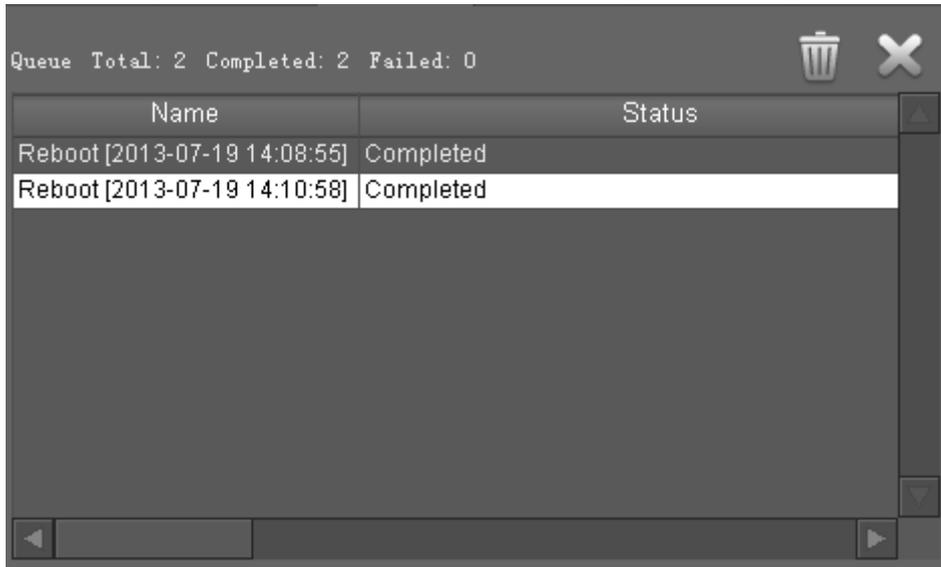


Figure 3-10 Reboot List

Entry introduction:

Queue Total:	The total number of the reboot operations in the list below.
Completed:	The total number of the completed reboot operations in the list below.
Failed:	The total number of the failed reboot operations in the list below.
Name:	Displays the name of the reboot operation distinguished by the time it was carried on.
Status:	Displays the result of the reboot operation.

Operations:

	Clear all the reboot operation lists in this tab.
	Delete the selected reboot operation entry.

The right window of Section C displays the progress bar of the selected reboot operation and its result.

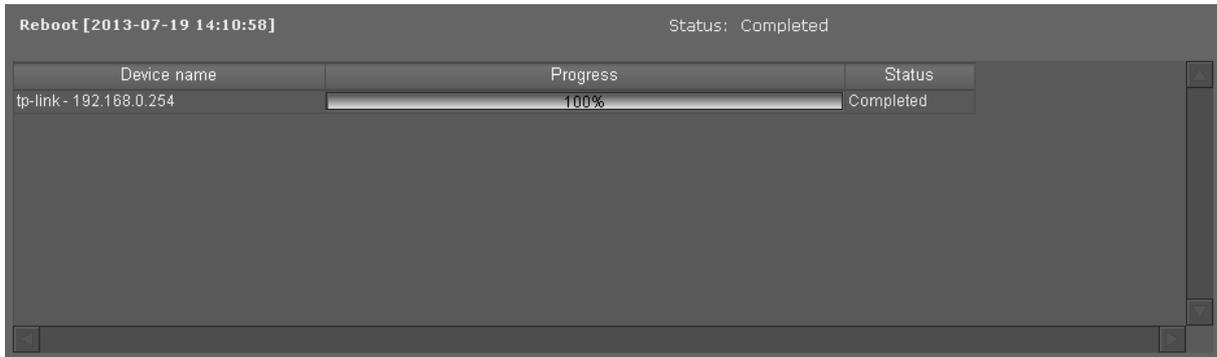


Figure 3-11 Reboot Status

Entry introduction:

Reboot:	The time when the reboot operation begins.
Status:	The status of the reboot operation.
Device Name:	The name of the device.
Progress:	The progress of the reboot operation.

Upgrade Tab:

The left window of Section C displays the upgrade operation list.

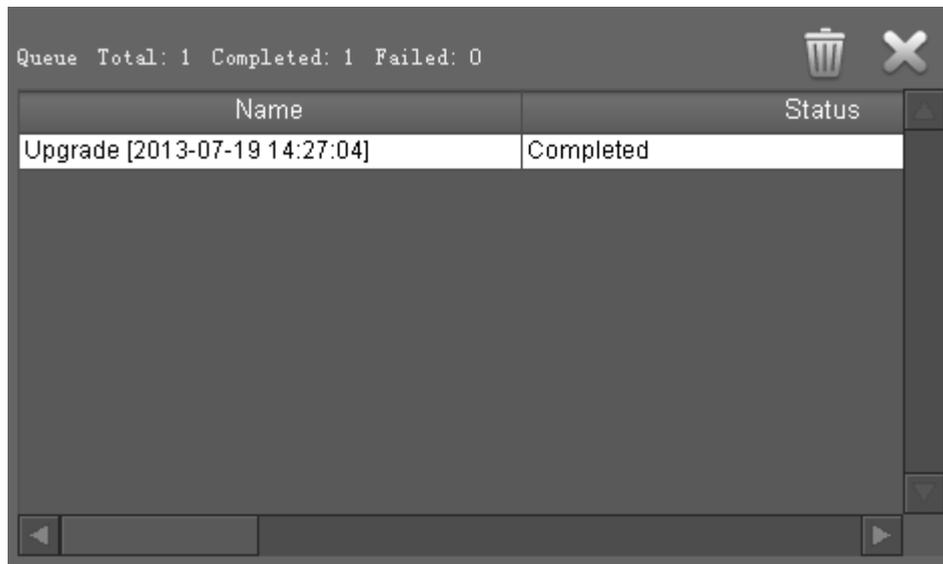


Figure 3-12 Upgrade List

Entry introduction:

Queue Total:	The total number of the upgrade operations in the list below.
--------------	---

Completed:	The total number of the completed upgrade operations in the list below.
Failed:	The total number of the failed upgrade operations in the list below.
Name:	Displays the name of the upgrade operation distinguished by the time it was carried on.
Status:	Displays the result of the upgrade operation.

Operations:

	Clear all the upgrade operation lists in this tab.
	Delete the selected upgrade operation entry.

The right window of Section C displays the progress bar of the selected upgrade operation and its result.

Upgrade [2014-06-09 10:52:12]		Status: Completed
Device name	Progress	Status
CPE210 - 192.168.0.254		Completed

Figure 3-13 Upgrade Status

Entry introduction:

Upgrade:	The time when the upgrade operation begins.
Status:	The status of the upgrade operation.
Device Name:	The name of the selected device.
Progress:	The progress of the upgrade operation.
Status:	The result of the upgrade operation.

Ping Tab:

The left window of Section C displays the ping operation list.

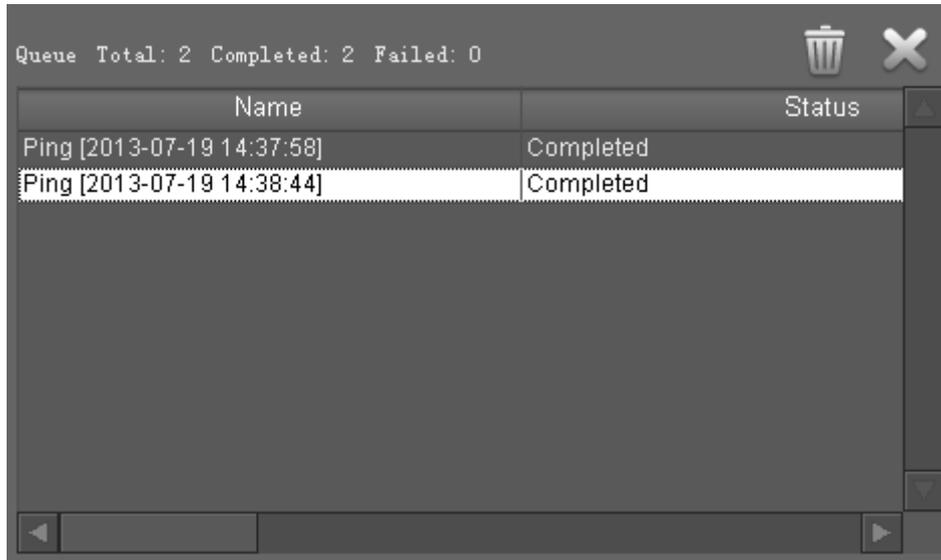


Figure 3-14 Ping List

Entry introduction:

Queue Total:	The total number of the ping operations in the list below.
Completed:	The total number of the completed ping operations in the list below.
Failed:	The total number of the failed ping operations in the list below.
Name:	Displays the name of the ping operation distinguished by the time it was carried on.
Status:	Displays the result of the ping operation.

Operations:

	Clear all the ping operation lists in this tab.
	Delete the selected ping operation entry.

The right window of Section C displays the information of the selected ping operation and its result.

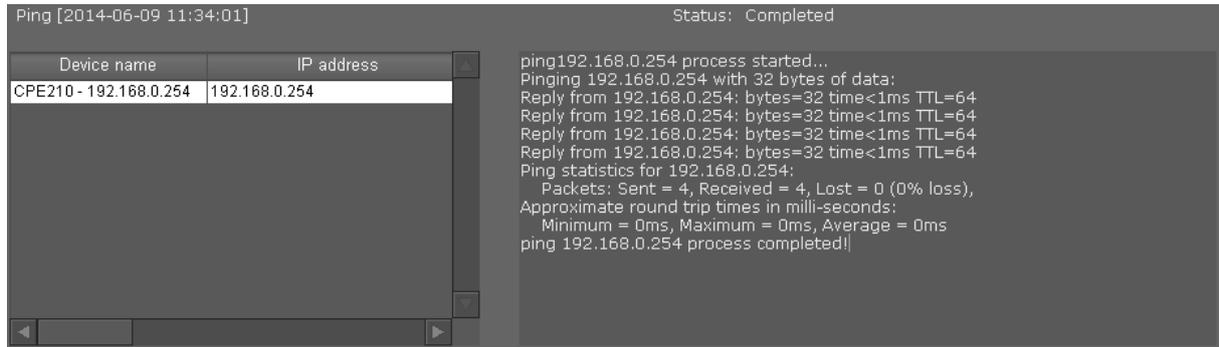


Figure 3-15 Ping Status

Entry Introduction:

Ping:	The total number of the ping operations in the list below.
Status:	Displays the status of the ping operation.
Device name:	The name of the device.
IP Address:	The IP address of the device.

The window in the right displays the detailed ping operation result.

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Chapter 4 Firmware

Firmware Tab is used for managing the firmware files in the server, including **Firmware Classification**, **Firmware List** and **Firmware Details**.

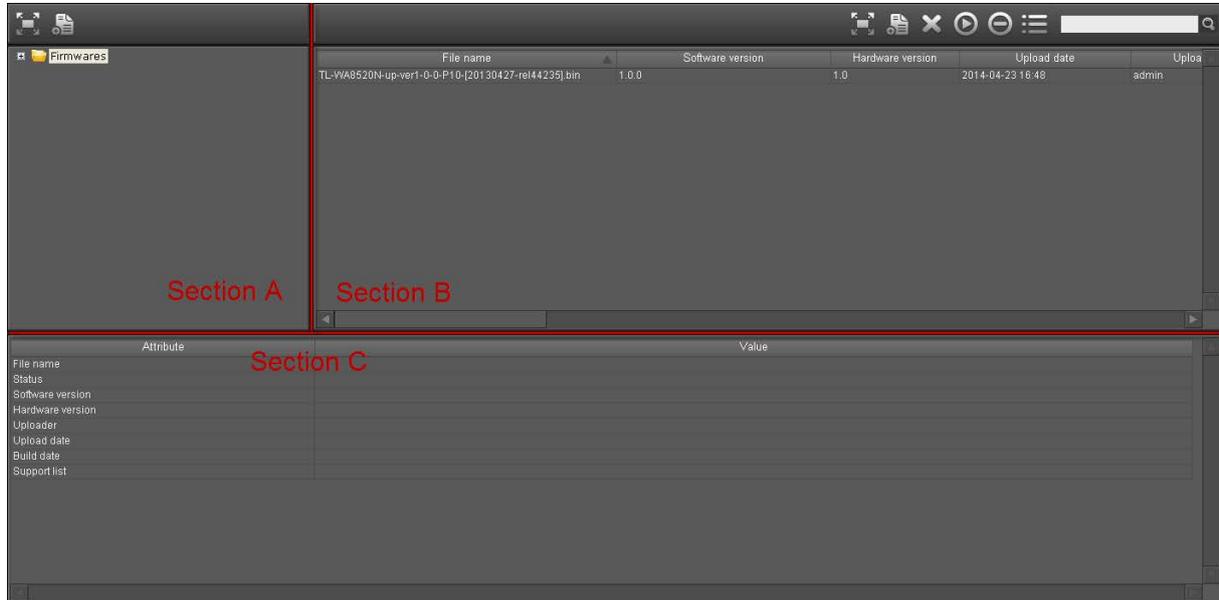


Figure 4-1 Firmware Tab

4.1 Firmware Classification

Firmware Classification is in Section A of the **Firmware Tab**.

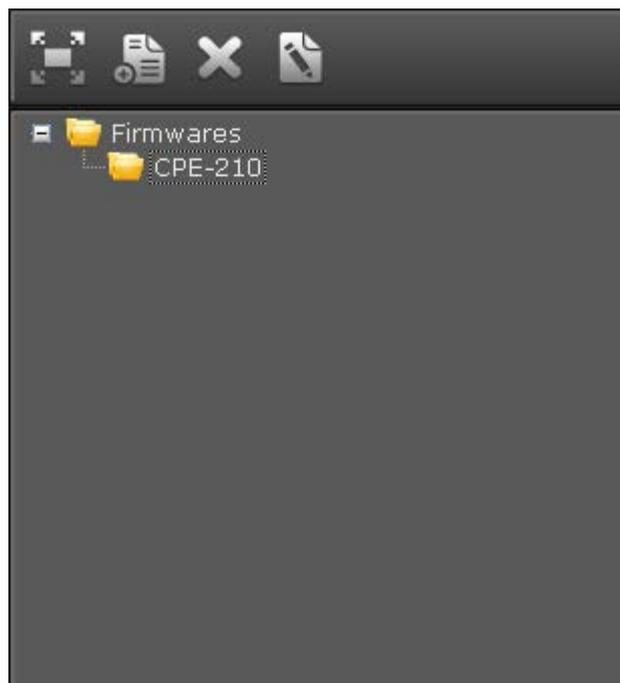


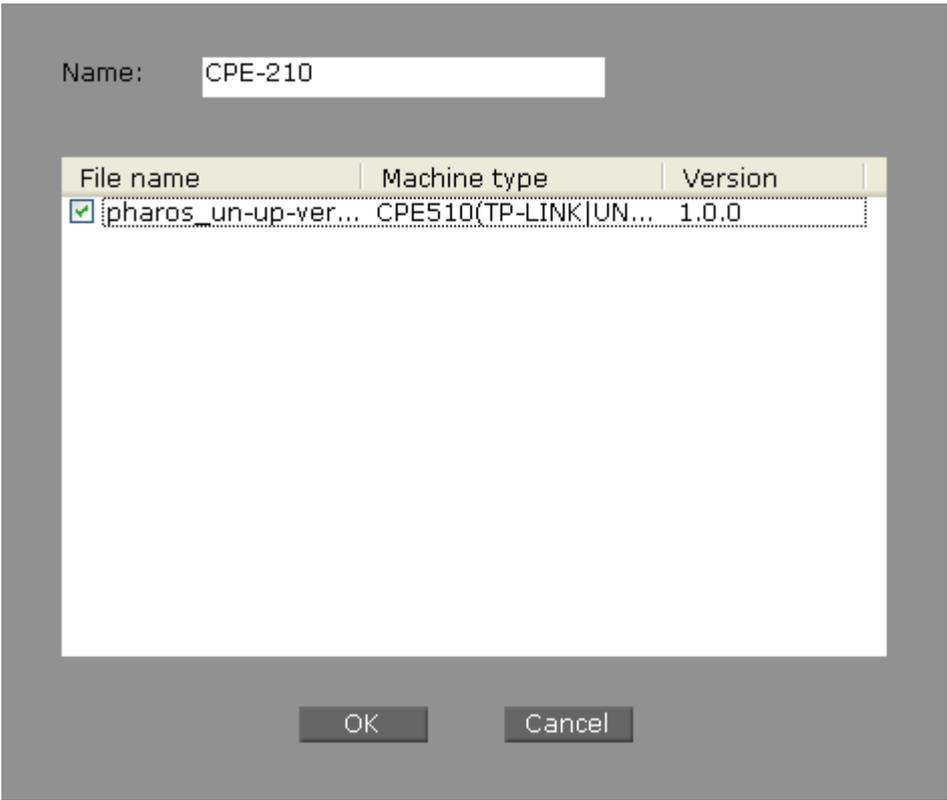
Figure 4-2 Firmware Classification

Firmware files can be categorized in Section A. Users can customize groups to save firmware files uploaded into the server. All the groups are under the root Firmwares by default.

Entry Introduction:

Firmwares:	List all the firmware files saved in the server.
CPE-210:	The manually added firmware group.

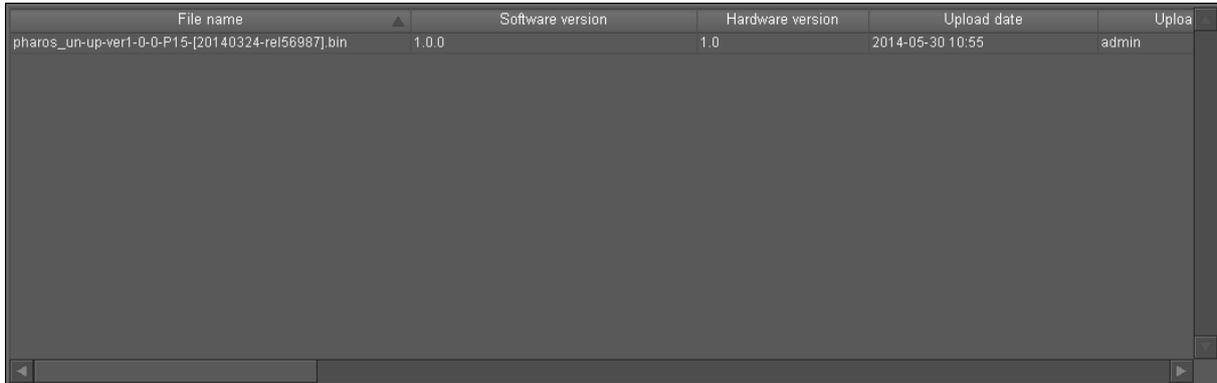
Operations:

	Maximize the current window.
	Add a new firmware group.
	Delete the selected firmware group.
	<p>Manage the selected group.</p>  <p>In this window users can edit the group name and remove the firmware files from this group. Click OK to save the configurations. If not chosen, the firmware file will be deleted from this group.</p> <p>Name: The group's name.</p> <p>File Name: The firmware file's name.</p>

	Machine Type: The firmware file's applicable product models. Version: The firmware file's version.
--	---

4.2 Firmware List

Firmware List is in Section B of the **Firmware Tab**.



File name	Software version	Hardware version	Upload date	Uploader
pharos_un-up-ver1-0-0-P15-[20140324-rel56987].bin	1.0.0	1.0	2014-05-30 10:55	admin

Figure 4-3 Firmware List

Firmware List displays the firmware files' information of the selected group.

Entry Introduction:

File Name:	Name of the firmware file.
Software Version	Software version of the firmware file.
Hardware Version:	Hardware version of the firmware file.
Upload Date:	The uploaded date of the firmware file.
Uploader:	The uploader of the firmware file.

You can sort the entries on a specific column by simply clicking the column name.

Operations:

	Maximize the current window.
	Click to add a new firmware file manually. <div style="background-color: #cccccc; padding: 10px; border: 1px solid #000;"> File Path: <input type="text"/> <input type="button" value="Browse"/> <input type="button" value="Upload"/> <input type="button" value="Cancel"/> </div>

	Delete the selected firmware file from server.
	Activate the selected firmware file. The firmware file is activated by default when it's uploaded.
	Deactivate the selected firmware file to remove it from the applicable list when users upgrade the devices.
	<p>Click the menu button (or right click any device entry below) to display all the operations in this window. Operations without corresponding buttons are introduced below:</p>  <p>Add to group: Add the selected firmware file to the firmware group you have manually created.</p>
	Enter a key word to search all the columns in the firmware file list below, and a partial text match will be highlighted.

4.3 Firmware Details

Firmware Details is in Section C of the **Firmware Tab**. This window displays the detailed information of the selected firmware file.

Attribute	Value
File name	pharos_un-up-ver1-0-0-P15-[20140324-rel56987].bin
Status	Activated
Software version	1.0.0
Hardware version	1.0
Uploader	admin
Upload date	2014-05-20 10:55
Build date	20140324 Rel. 56987
Support list	CPE510:1.0,CPE520:1.0,CPE210:1.0,CPE220:1.0,B6510:1.0,B6210:1.0;

Figure 4-4 Firmware Details

Attribute: The name of the firmware file's attribute.

Value: The value of the corresponding attribute.

File name:	The name of the firmware file.
------------	--------------------------------

Status:	The firmware file's status, including activated and deactivated. The deactivated firmware file cannot be used to upgrade devices.
Software Version:	The software version of the firmware file.
Hardware Version:	The hardware version of the firmware file.
Uploader:	The uploader of the firmware file.
Upload Date:	The upload date.
Build Date:	The firmware file's build date and version.
Support List:	The product models that this firmware file supports.

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Chapter 5 Task

Task Tab is used for editing the scheduled tasks and viewing their running status. This tab includes **Task Classification**, **Task List** and **Task Details**.



Figure 5-1 Task Tab

5.1 Task Classification

Task Classification is in Section A of the **Task Tab**.

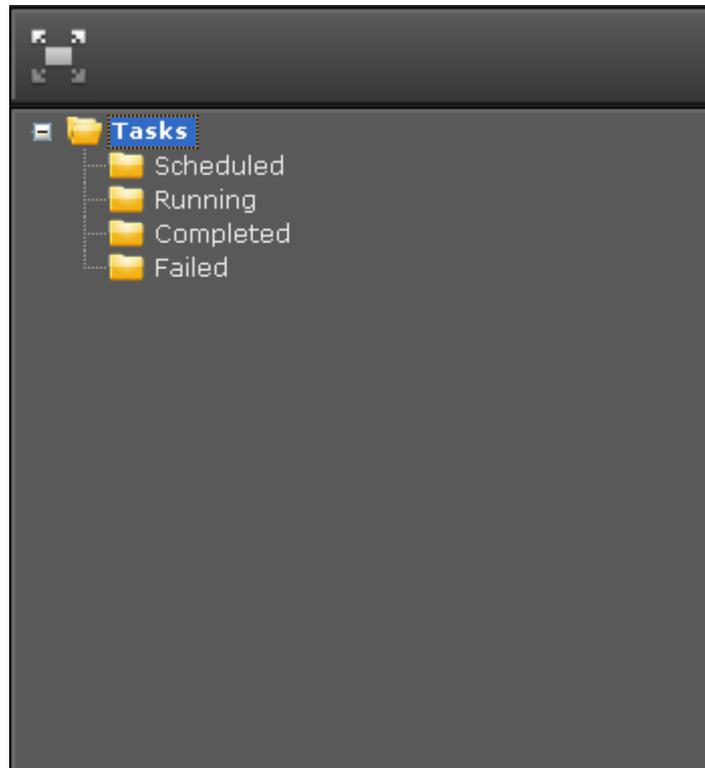


Figure 5-2 Task Classification

Tasks are categorized into four groups: Scheduled, Running, Completed and Failed.

These four categories cannot be edited or deleted. Click the corresponding folder to view its tasks.

Entry Introduction:

- Scheduled: The scheduled tasks which are not executed yet.
- Running: The running tasks.
- Completed: The completed tasks.
- Failed: The failed tasks.

Operations:

	Maximize the current window.
---	------------------------------

5.2 Task List

Task List is in Section B of the **Task Tab**.

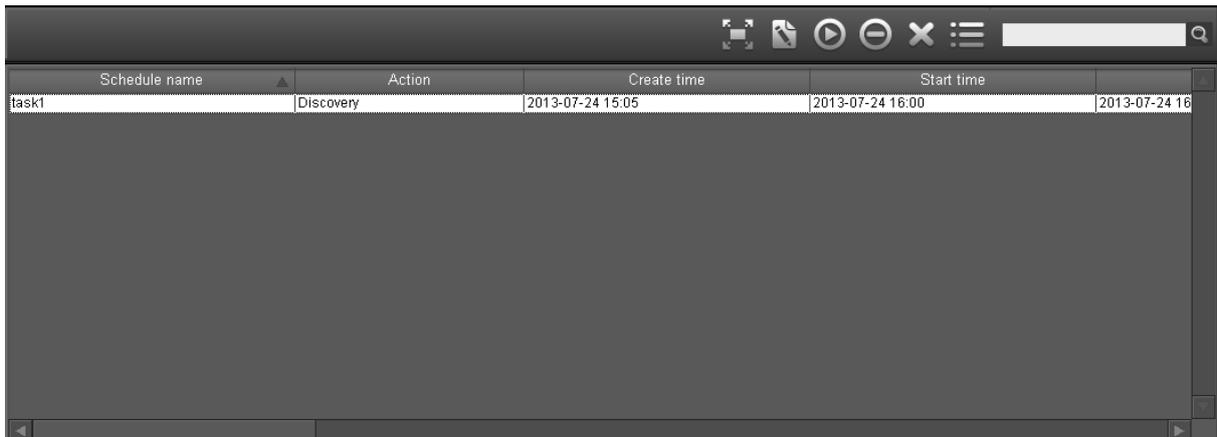


Schedule name	Action	Create time	Start time	End time
Reboot_1	Reboot	2014-06-10 10:14	2014-06-11 00:00	2014-06-11 00:00

Figure 5-3 Task List

This section is used to manage the scheduled tasks. Please note that the function of adding tasks is on the **Device Tab**. Different devices have different operation buttons and entries.

➤ Scheduled:



Schedule name	Action	Create time	Start time	End time
task1	Discovery	2013-07-24 15:05	2013-07-24 16:00	2013-07-24 16:00

Figure 5-4 Scheduled Task List

Entry Introduction:

Schedule Name:	The name of the scheduled task.
Action:	The action to be executed, including Discovery, Reboot and Firmware upgrade.
Create Time:	The time when this task was created.
Start Time:	The time when this task starts.
End Time:	The time when this task ends.

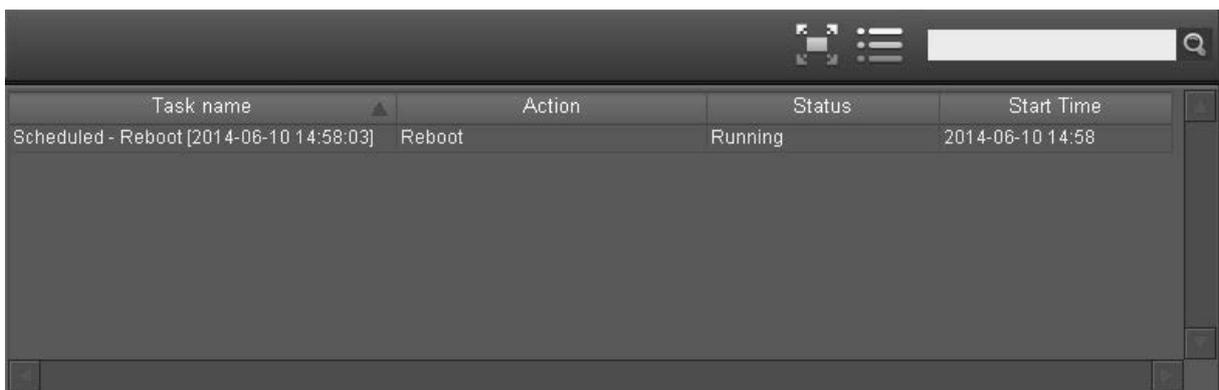
Schedule by:	The creator of the task.
--------------	--------------------------

You can sort the entries on a specific column by simply clicking the column name.

Operations:

	Maximize the current window.
	Delete the selected task.
	Click to edit the information of the selected task entry.
	Activate the selected task. The scheduled task is activated by default when it is created.
	Deactivate the selected task to make it inactive.
	Run the selected task immediately.
	Click the menu button (or right click any task entry below) to display all the operations in this window.
	Enter a key word to search all the columns in the task list below, and a partial text match will be highlighted.

➤ Running



Task name	Action	Status	Start Time
Scheduled - Reboot [2014-06-10 14:58:03]	Reboot	Running	2014-06-10 14:58

Figure 5-5 Running Task List

Entry Introduction:

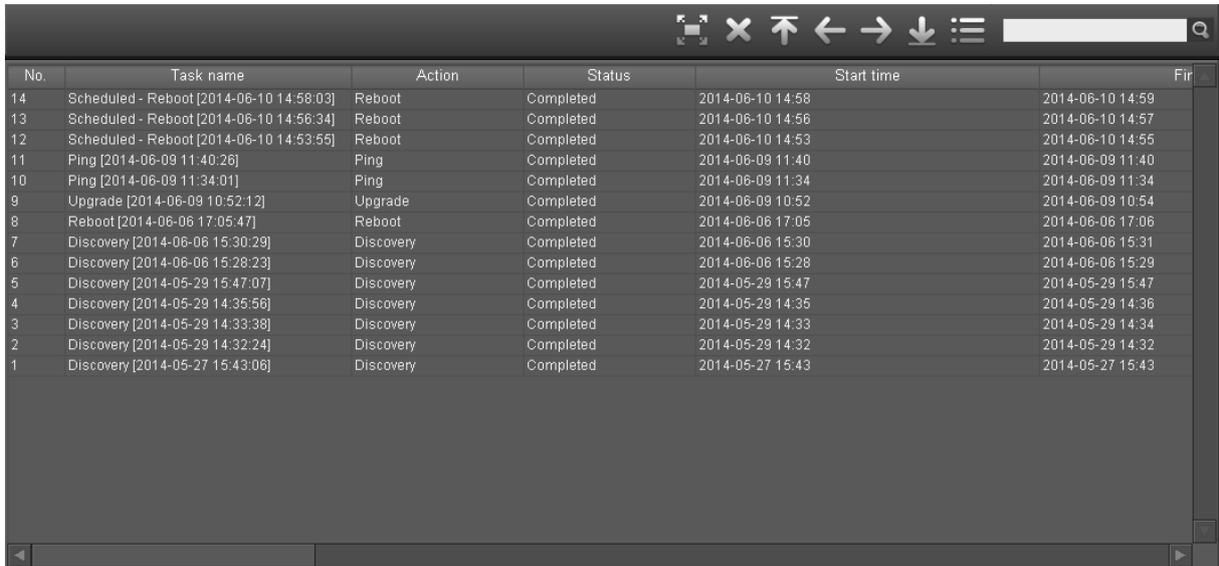
Task Name:	The name of the running task.
Action:	The executing action, including Discovery, Reboot and Firmware upgrade.

Status:	The current status of the task.
Start Time:	The start time of the task.

Operations:

	Maximize the current window.
	Enter a key word to search all the columns in the task list below, and a partial text match will be highlighted.

➤ Completed



No.	Task name	Action	Status	Start time	Finish time
14	Scheduled - Reboot [2014-06-10 14:58:03]	Reboot	Completed	2014-06-10 14:58	2014-06-10 14:59
13	Scheduled - Reboot [2014-06-10 14:56:34]	Reboot	Completed	2014-06-10 14:56	2014-06-10 14:57
12	Scheduled - Reboot [2014-06-10 14:53:55]	Reboot	Completed	2014-06-10 14:53	2014-06-10 14:55
11	Ping [2014-06-09 11:40:26]	Ping	Completed	2014-06-09 11:40	2014-06-09 11:40
10	Ping [2014-06-09 11:34:01]	Ping	Completed	2014-06-09 11:34	2014-06-09 11:34
9	Upgrade [2014-06-09 10:52:12]	Upgrade	Completed	2014-06-09 10:52	2014-06-09 10:54
8	Reboot [2014-06-06 17:05:47]	Reboot	Completed	2014-06-06 17:05	2014-06-06 17:06
7	Discovery [2014-06-06 15:30:29]	Discovery	Completed	2014-06-06 15:30	2014-06-06 15:31
6	Discovery [2014-06-06 15:28:23]	Discovery	Completed	2014-06-06 15:28	2014-06-06 15:29
5	Discovery [2014-05-29 15:47:07]	Discovery	Completed	2014-05-29 15:47	2014-05-29 15:47
4	Discovery [2014-05-29 14:35:56]	Discovery	Completed	2014-05-29 14:35	2014-05-29 14:36
3	Discovery [2014-05-29 14:33:38]	Discovery	Completed	2014-05-29 14:33	2014-05-29 14:34
2	Discovery [2014-05-29 14:32:24]	Discovery	Completed	2014-05-29 14:32	2014-05-29 14:32
1	Discovery [2014-05-27 15:43:06]	Discovery	Completed	2014-05-27 15:43	2014-05-27 15:43

Figure 5-6 Completed Task List

Entry Introduction:

No. :	The sequence number.
Task Name:	The name of the task and its start time.
Action:	The action of the task, including Discovery, Reboot and Firmware upgrade.
Status:	The status of the task.
Start Time:	The time when this task starts.
Finish Time:	The time when this task ends.

Operations:

	Maximize the current window.
---	------------------------------

	Delete the selected task record. (multiple)
	Displays the 50 tasks recently completed.
	The previous page.
	The next page.
	Displays the 50 tasks firstly completed.
	Click the menu button (or right click any task entry below) to display all the operations in this window.
	Enter a key word to search all the columns in the task list below, and a partial text match will be highlighted.

➤ Failed

Entry Introduction:

No. :	The sequence number.
Task Name:	The name of the task and its start time.
Action:	The action of the task, including Discovery, Reboot and Firmware upgrade.
Status:	The status of the task.
Start Time:	The time when this task starts.
Finish Time:	The time when this task ends.

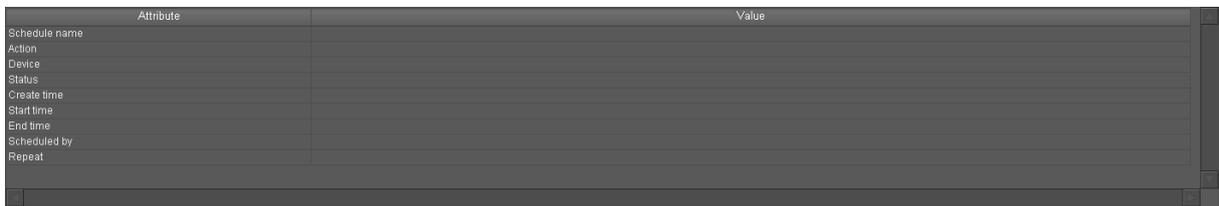
Operations:

	Maximize the current window.
	Delete the selected task record. (multiple)
	Displays the 50 tasks recently failed.
	The previous page.

	The next page.
	Displays the 50 tasks firstly failed.
	Click the menu button (or right click any task entry below) to display all the operations in this window.
	Enter a key word to search all the columns in the task list below, and a partial text match will be highlighted.

5.3 Task Details

Task Details is in Section C of the **Task Tab**. Different kinds of task corresponds to different details window. The scheduled task will be taken as an example in the following:



Attribute	Value
Schedule name	
Action	
Device	
Status	
Create time	
Start time	
End time	
Scheduled by	
Repeat	

Figure 5-7 Task Details

Attribute: The name of the task's attribute.

Value: The value of the corresponding attribute.

Schedule name:	The scheduled task's name.
Action:	The action to be executed.
Device:	The device to execute the task.
Status:	The status of the scheduled task.
Create Time:	The create time of the scheduled task.
Start Time:	The start time of the task.
End Time:	The end time of the task.
Schedule by:	The creator of the scheduled task.
Repeat:	The scheduled task's execution time/period.

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Chapter 6 Trigger

Trigger Tab is used to configure and manage the trigger rules and trigger events saved in the server. This tab includes **Trigger Rules and Trigger Events Classification**, **Trigger Rules/Events List** and **Trigger Rules/Events Details**.

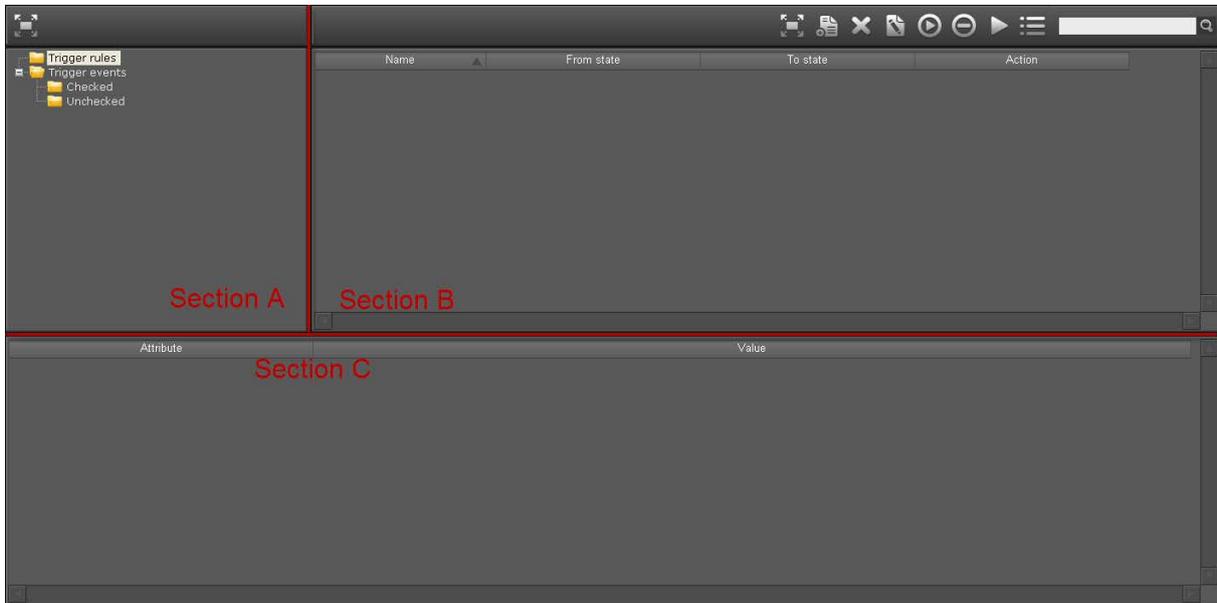


Figure 6-1 Trigger Tab

6.1 Trigger Rule and Event Classification

Trigger Rule and Event Classification is in Section A of the **Trigger Tab**.

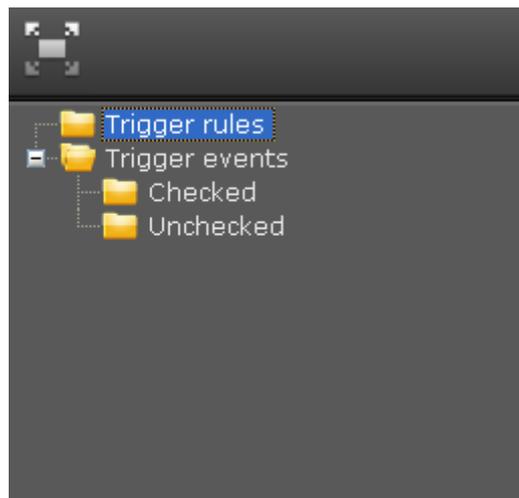


Figure 6-2 Trigger Rule and Event Classification

Trigger rules are displayed under the Trigger rules folder. Trigger rules define actions that are triggered by device status changes.

Trigger events are divided into two folders: Checked and Unchecked. The unread trigger events are saved in the Unchecked folder, and the read trigger events are saved in the Checked folder.

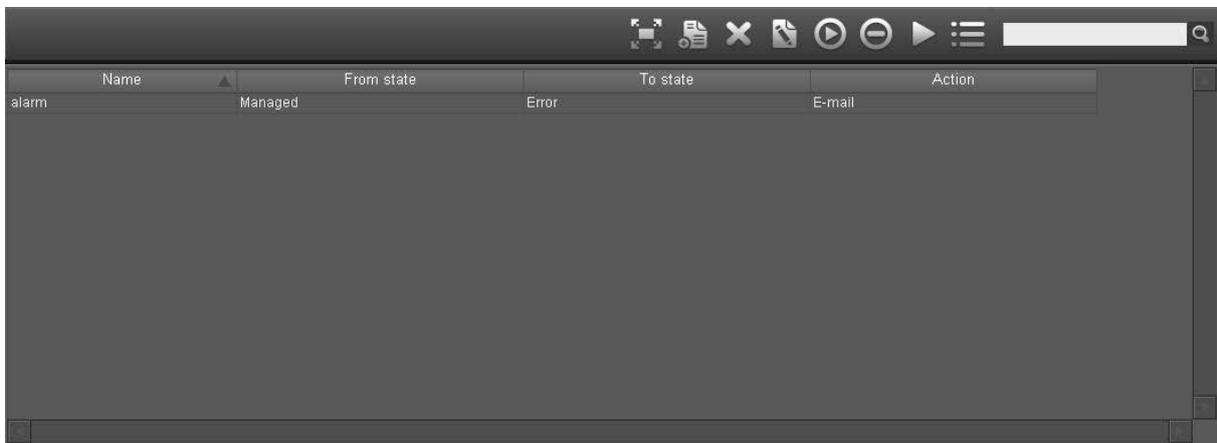
Operation:

	Maximize the current window.
---	------------------------------

6.2 Trigger Rule/Event List

Trigger Rules/Events List is in Section B of the **Trigger Tab**. Trigger rules and events have different operation buttons and lists.

➤ Trigger Rules:



Name	From state	To state	Action
alarm	Managed	Error	E-mail

Figure 6-3 Trigger Rule List

Entry Introduction:

Name:	The name of the trigger rule.
From State:	The former state of the device.
To State:	The state that the device transits to.
Action:	Action to take on device status changes. (only supports email notification)

Operations:

	Maximize the current window.
---	------------------------------

	<p>Add new trigger rules.</p>  <p>Name: Enter the name of the trigger rule. Assign meaningful names to rules that will easily identify them.</p> <p>Device Group: Limit the trigger rule to a specified device group defined in 3.1 Device Classification.</p> <p>Condition: Specify the status changes. The status includes Unmanaged, Managed and Error.</p> <p>Action: An email notification will be sent when the specified trigger occurs. Configure the recipient address and subject of the email.</p>
	<p>Delete the selected trigger rule.</p>
	<p>Edit the selected trigger rule.</p>
	<p>Activate the selected trigger rule. The trigger rule is activated by default when it is created.</p>
	<p>Deactivate the selected task to make it inactive.</p>
	<p>Run the selected trigger rule immediately.</p>
	<p>Click the menu button (or right click any rule entry below) to display all the operations in this window.</p>
	<p>Enter a key word to search all the columns in the rule list below, and a partial text match will be highlighted.</p>

➤ Trigger Events:

Trigger name	Device name	Time	Type	Action
alarm	CPE210 - 192.168.0.254	2014-06-11 10:02	From Managed to Error	E-mail

Figure 6-4 Trigger Event List

Trigger events divide into two types depending on whether the notification email has been read:

- Checked

Entry Introduction:

Trigger name:	The name of the trigger
Device name:	The device on which the event happened.
Time:	The time when the trigger event happened.
Type:	The transition of the device status.
Action:	The action that was taken after the event triggered.

Operations:

	Maximize the current window.
	Delete the selected trigger event.
	Click the menu button (or right click any trigger event below) to display all the operations in this window.
	Enter a key word to search all the columns in the rule list below, and a partial text match will be highlighted.

- Unchecked

Entry Introduction:

Trigger Name:	The name of the trigger.
Device name:	The device on which the event happened.

Time:	The time when the trigger event happened.
Type:	The device's status transition type.
Action:	The action that was taken after the event triggered.

Operations:

	Maximize the current window.
	Delete the selected trigger event.
	Set the selected unchecked event as checked.
	Click the menu button (or right click any trigger event below) to display all the operations in this window.
	Enter a key word to search all the columns in the rule list below, and a partial text match will be highlighted.

6.3 Trigger Rule/Event Details

Trigger Rules/Events Details is in Section C of the **Trigger Tab**. This window displays the detailed information of the selected trigger rule/trigger event.

➤ Trigger Rules:

Attribute	Value
Name	test
Status	Activated
Group	All
From state	Unmanaged
To state	Managed
Action	E-mail
Receiver	test@gmail.com
Subject	Test

Figure 6-5 Trigger Rule Details

Attribute: The name of the trigger rule's attribute.

Value: The attribute's corresponding value.

Name:	The name of the trigger rule.
Status:	The trigger rule's status, including activated and deactivated.
From State:	The previous state of the device.
To State:	The state that the device changes to.

Action:	Action to take on device status changes. (only supports email notification)
Receiver:	The recipient of the notification email on the trigger event.
Subject:	The subject of the notification email.

➤ Trigger Events:

Attribute	Value
Trigger name	test
Device name	CPE510 - 192.168.0.254
Time	2014-03-06 20:38
Type	From Unmanaged to Managed
Action	E-mail
Status	Unchecked

Figure 6-6 Trigger Event Details

Attribute: The name of the trigger event's attribute.

Value: The attribute's corresponding value.

Trigger Name:	The name of the trigger event.
Device Name:	The device on which the event happened.
Time:	The time when the trigger event happened.
Type:	The device's status transition type.
Action:	The action that was taken after the event triggered.
Status:	The status of the trigger event, checked or unchecked.

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Chapter 7 Account

Account Tab is used to create or edit user accounts for this system. You can assign different privileges to different user accounts by assigning them to different account groups (Administrator, Manager or Guest). This tab includes **Account Classification**, **Account List** and **Account Details**.

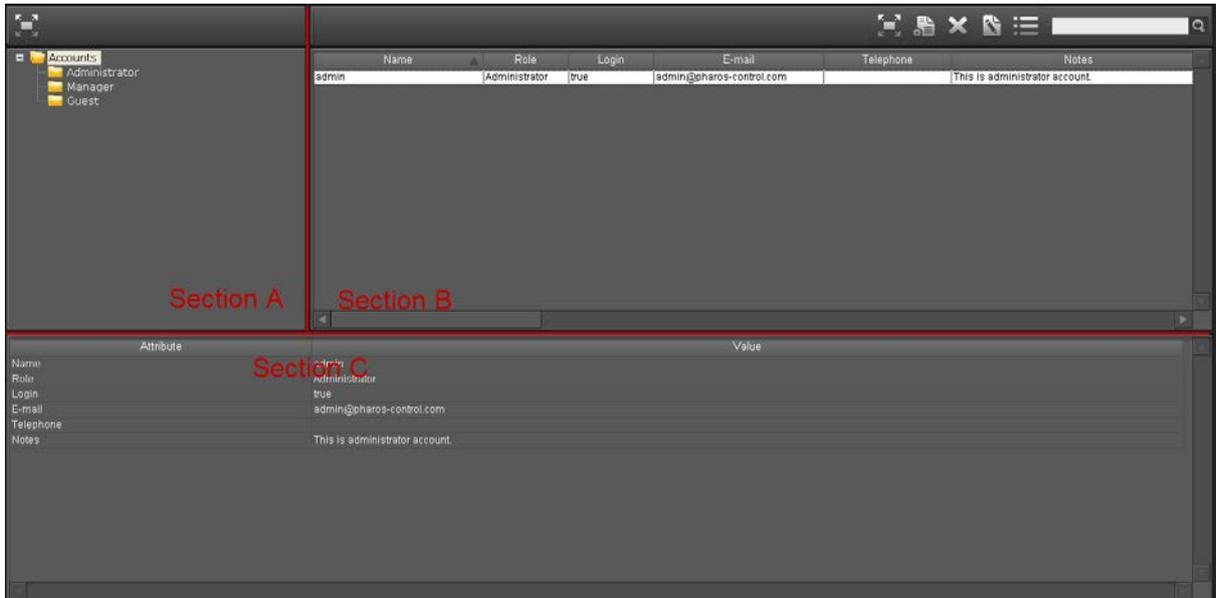


Figure 7-1 Account Tab

7.1 Account Classification

Account Classification is in Section A of the **Account Tab**.

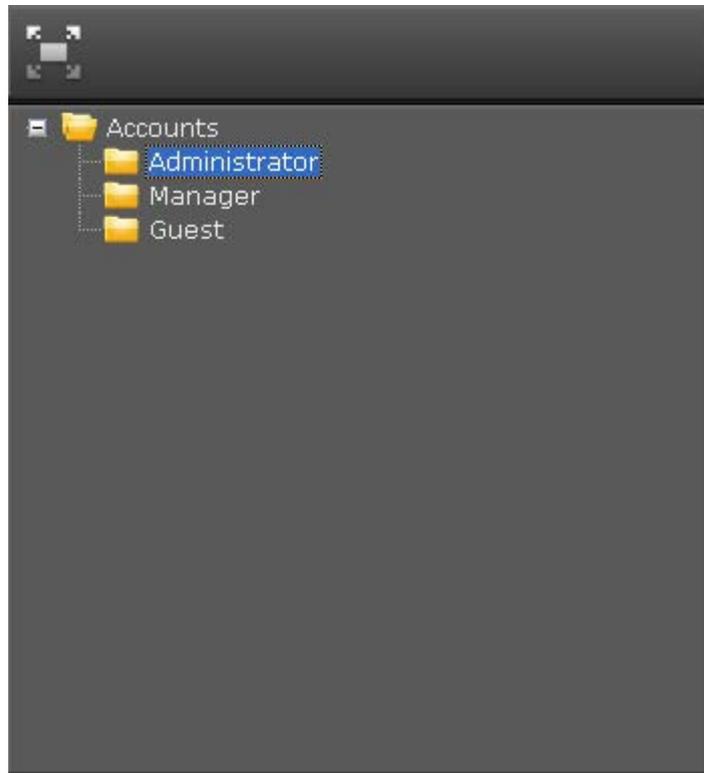


Figure 7-2 Account Classification

User Accounts are categorized into three groups: Administrator, Manager and Guest. These three categories cannot be edited or deleted. Click the folder to view its corresponding accounts.

Entry Introduction:

- Administrator: This user group has all privileges including accessing the Admin section, uploading/downloading firmware files and editing scheduled tasks.
- Manager: This user group has limited privileges, including connecting devices to the system, uploading firmware files, accessing all function pages and viewing the system log. However, they cannot access the Admin, Firmware and Task sections.
- Guest: This user group has very limited privileges and can only view the Device Tab and Log Tab. They cannot connect devices to this system, upgrade device firmware, or access the function tabs of the system. They have no privileges to access the Admin, Firmware or Task sections.

Different user accounts and their privileges:

Privilege \ Account	Administrator	Manager	Guest
Downloading firmware files and editing scheduled tasks	√	X	X
Connecting devices to the system	√	X	X
Upgrading device firmware	√	√	X
Uploading firmware files	√	√	X
Accessing all functions of the Device page and viewing the System Log	√	√	X

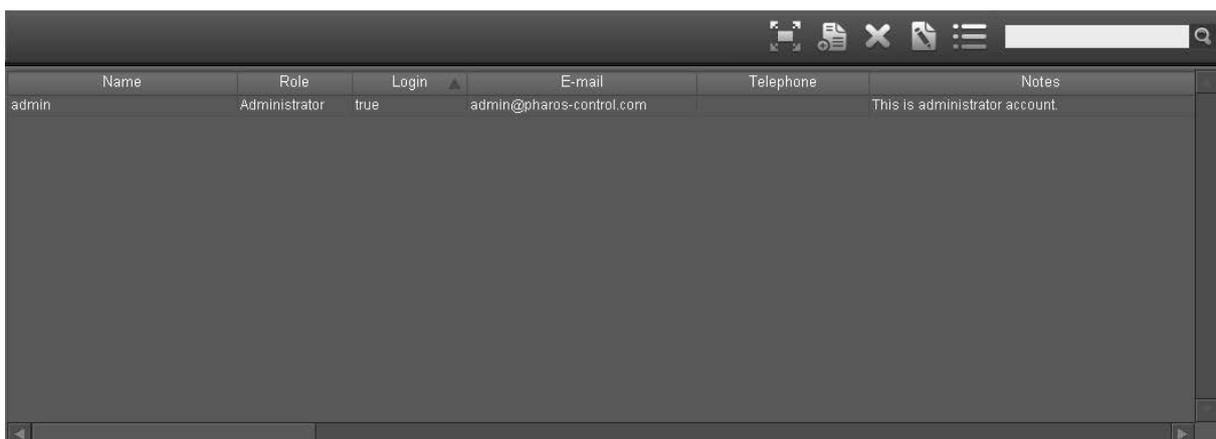
Table 7-1 Accounts and Privileges

Operation:

	Maximize the current window.
---	------------------------------

7.2 Account List

Account List is in Section B of the **Account Tab**.



Name	Role	Login	E-mail	Telephone	Notes
admin	Administrator	true	admin@pharos-control.com		This is administrator account.

Figure 7-3 Account List

This section is used to add and edit the user account information. The related operation buttons are displayed above and the users are listed below.

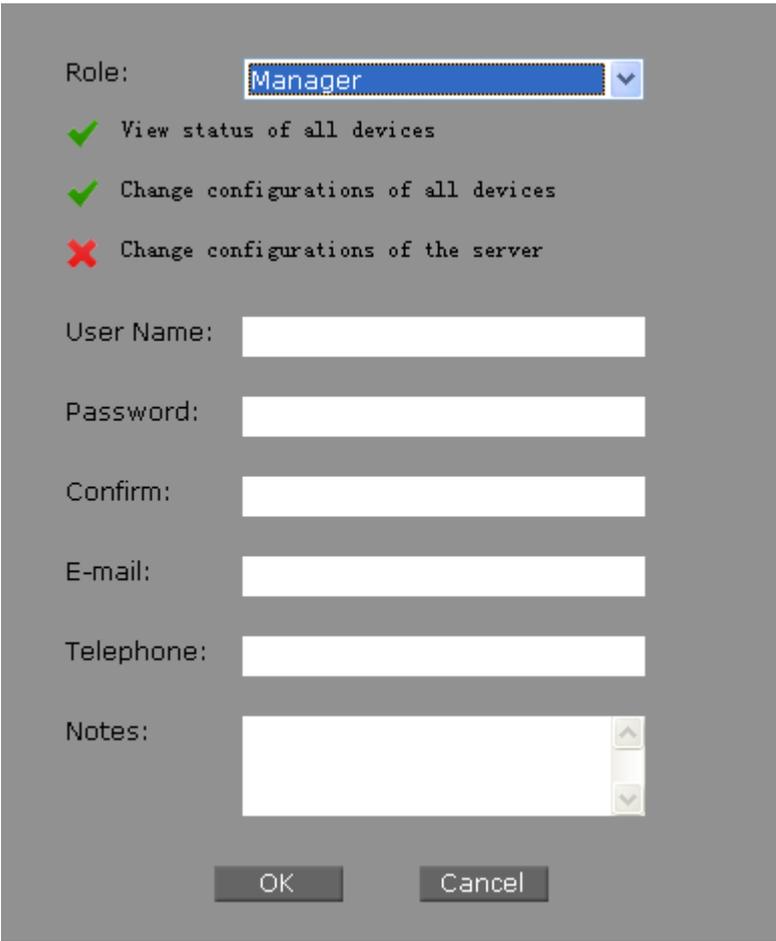
Entry Introduction:

Name:	The name of the user account.
Role:	The role of the user.
Login:	Whether the user logs in.
E-mail:	The email address of the user.
Telephone:	The telephone number of the user.
Notes:	Notes about this account.

You can sort the entries on a specific column by simply clicking the column name.

Operations:

	Maximize the current window.
---	------------------------------

	<p>Add a new user account.</p>  <p>Role: <input type="text" value="Manager"/></p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> View status of all devices <input checked="" type="checkbox"/> Change configurations of all devices <input type="checkbox"/> Change configurations of the server <p>User Name: <input type="text"/></p> <p>Password: <input type="text"/></p> <p>Confirm: <input type="text"/></p> <p>E-mail: <input type="text"/></p> <p>Telephone: <input type="text"/></p> <p>Notes: <input type="text"/></p> <p><input type="button" value="OK"/> <input type="button" value="Cancel"/></p> <p>Role: Specify the user's role. It is Manager by default. The illustrations bellow shows that the manager has the privileges to view the status of all devices and change configurations of all devices, but it cannot change the configurations of the server.</p> <p>User Name: Enter the user name.</p> <p>Password: Enter the user's password.</p> <p>Confirm: Re-enter the password for confirmation.</p> <p>E-mail: Enter the user's email address.</p> <p>Telephone: Optional. Enter the user's telephone number.</p> <p>Notes: Optional. Enter notes for this use account.</p>
	<p>Delete the selected user account.</p>

	<p>Edit the selected user account information.</p> <div style="border: 1px solid gray; padding: 10px; background-color: #f0f0f0;"> <p>Role: <input type="text" value="Administrator"/></p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> View status of all devices <input checked="" type="checkbox"/> Change configurations of all devices <input checked="" type="checkbox"/> Change configurations of the server <p>User Name: <input type="text" value="admin"/></p> <p>Password: <input type="button" value="Change"/></p> <p>E-mail: <input type="text" value="admin@pharos-control.com"/></p> <p>Telephone: <input type="text"/></p> <p>Notes: <input type="text" value="This is administrator account."/></p> <p style="text-align: center;"> <input type="button" value="OK"/> <input type="button" value="Cancel"/> </p> </div> <p>Note: The user's role and user name cannot be edited if it is currently logged in.</p>
	<p>Click the menu button (or right click any account entry below) to display all the operations in this window.</p>
<input type="text"/> 	<p>Enter a key word to search all the columns in the account list below, and a partial text match will be highlighted.</p>

7.3 Account Details

Account Details is in section C of the **Account Tab**. This section displays the detailed information of the selected user account.

Attribute	Value
Name	admin
Role	Administrator
Login	true
E-mail	admin@pharos-control.com
Telephone	
Notes	This is administrator account.

Figure 7-4 Account Details

Attribute: The name of the user account's attribute.

Value: The value of the corresponding attribute.

Name:	The name of the user account.
Role:	The role of the user.
Login:	Whether the user logs in.
E-mail:	The email address of the user.
Telephone:	The telephone number of the user.
Notes:	Notes about this user account.

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Chapter 8 Log

Log Tab is used for viewing the log information saved in the server. The log information is categorized into three groups: Log, Error and Debug. The **Log Tab** includes three sections: **Log Classification**, **Log List** and **Log details**.

The screenshot displays the Log Tab interface with three main sections: Log Classification, Log List, and Log details.

Log Classification (Section A): A sidebar on the left shows a tree view with 'All logs', 'Log', 'Error', and 'Debug' categories. 'Log' is selected.

Log List (Section B): A table showing a list of log entries. The selected entry is highlighted in blue.

Time	Message	Type	Device name
2014-06-12 15:21	Task completed, which task name = Ping [2014-06-12 15:21:35], task type = PING	Log	
2014-06-12 15:21	Ping device, which device name = CPE210 - 192.168.0.254, device ipaddress = 192.168...	Log	CPE210 - 192.168.0.254
2014-06-12 15:21	Task started, which task name = Ping [2014-06-12 15:21:35], task type = PING	Log	
2014-06-12 15:20	Discovery task is completed, which name is Discovery [2014-06-12 15:19:35]	Log	
2014-06-12 15:19	Discovery task started, which name = Discovery [2014-06-12 15:19:35]	Log	
2014-06-12 15:18	Discovery task is completed, which name is Discovery [2014-06-12 15:18:11]	Log	
2014-06-12 15:18	Discovery process, find new device, which device name = CPE210 - 192.168.0.254	Log	CPE210 - 192.168.0.254
2014-06-12 15:18	Discovery task started, which name = Discovery [2014-06-12 15:18:11]	Log	
2014-06-12 15:13	User: admin login.	Log	
2014-06-12 12:13	User: admin logout.	Log	
2014-06-12 11:36	User: admin login.	Log	
2014-06-12 11:36	User: test logout.	Log	
2014-06-12 11:35	User: test login.	Log	
2014-06-12 11:35	User: admin logout.	Log	
2014-06-12 11:35	Edit user successfully, which user id = 2, username = test	Log	
2014-06-12 11:35	User: admin login.	Log	

Log details (Section C): A table showing the details of the selected log entry.

Attribute	Value
Time	2014-06-12 15:21
Type	Log
Device name	CPE210 - 192.168.0.254
MAC address	
IP address	192.168.0.254
Message	Ping device, which device name = CPE210 - 192.168.0.254, device ipaddress = 192.168.0.254

Figure 8-1 Log Tab

8.1 Log Classification

Log Classification is in Section A of the **Log Tab**.

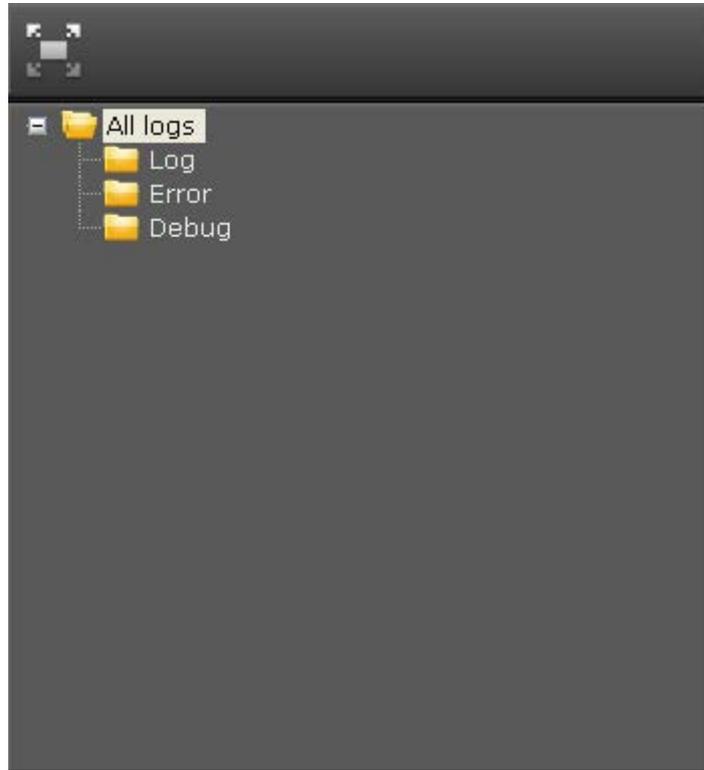


Figure 8-2 Log Classification

All the logs are categorized into three types: Log, Error and Debug.

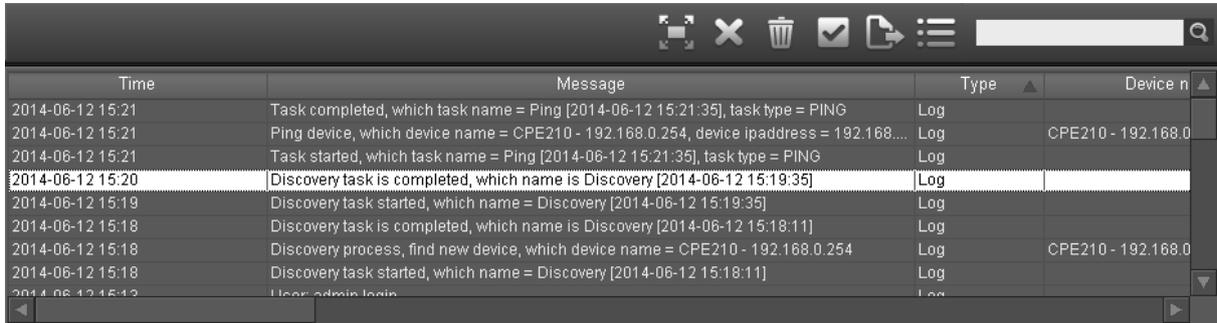
Log: The informational system service messages.

Error: Some errors or warning messages.

Debug: The debugging information.

8.2 Log List

Log List is in Section B of the **Log Tab**.



Time	Message	Type	Device name
2014-06-12 15:21	Task completed, which task name = Ping [2014-06-12 15:21:35], task type = PING	Log	
2014-06-12 15:21	Ping device, which device name = CPE210 - 192.168.0.254, device ipaddress = 192.168...	Log	CPE210 - 192.168.0
2014-06-12 15:21	Task started, which task name = Ping [2014-06-12 15:21:35], task type = PING	Log	
2014-06-12 15:20	Discovery task is completed, which name is Discovery [2014-06-12 15:19:35]	Log	
2014-06-12 15:19	Discovery task started, which name = Discovery [2014-06-12 15:19:35]	Log	
2014-06-12 15:18	Discovery task is completed, which name is Discovery [2014-06-12 15:18:11]	Log	
2014-06-12 15:18	Discovery process, find new device, which device name = CPE210 - 192.168.0.254	Log	CPE210 - 192.168.0
2014-06-12 15:18	Discovery task started, which name = Discovery [2014-06-12 15:18:11]	Log	
2014-06-12 15:12	User admin login	Log	

Figure 8-3 Log List

This section is used to view and export the log entries under the selected group.

Entry Introduction:

Time:	The log's generating time.
Message:	Detailed information of this log.
Type:	The type of this log.
Device Name:	The device name. If the log is system-level, this column will be blank.
MAC:	The MAC address of the device. If the log is system-level, this column will be blank.
IP:	The IP address of the device. If the log is system-level, this column will be blank.

You can sort the entries on a specific column by simply clicking the column name.

Operations:

	Maximize the current window.
	Delete the selected log entry.
	Clear all the log entries under the selected log folder.
	Select all the log entries in this section.

	Export all the log entries in this section to your computer as an Excel file.
	Click the menu button (or right click any device entry below) to display all the operations in this window. Operations without corresponding buttons are introduced below:
	Enter a key word to search all the columns in the firmware file list below, and a partial text match will be highlighted.

8.3 Log Details

Log Details is in Section C of the **Log Tab**. This window displays the detailed information of the selected log entry.

Attribute	Value
Time	2014-06-12 15:21
Type	Log
Device name	CPE210-192.168.0.254
MAC address	
IP address	192.168.0.254
Message	Ping device, which device name = CPE210-192.168.0.254, device Ipaddress = 192.168.0.254

Figure 8-4 Log Details

Attribute: The name of the firmware file's attribute.

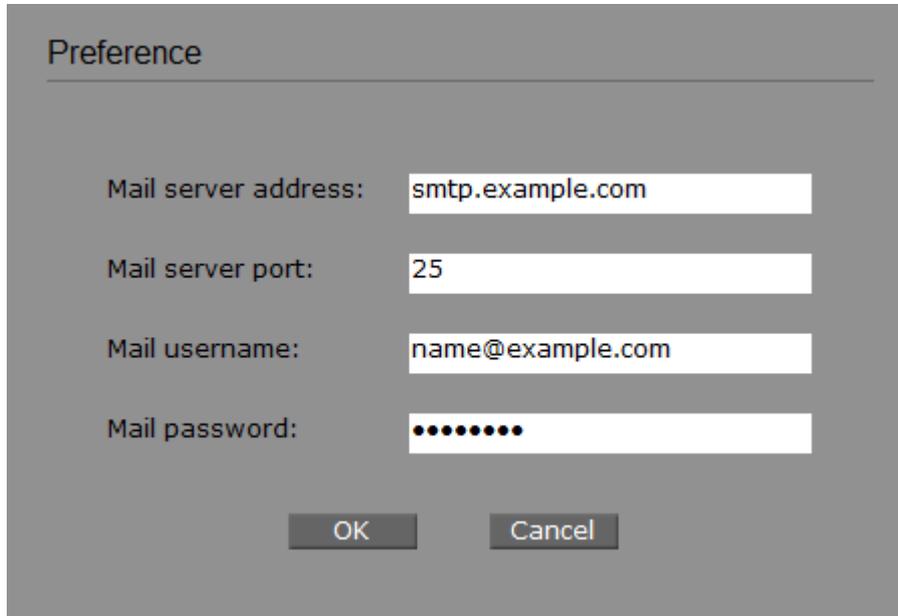
Value: The value of the corresponding attribute.

Time:	The log's generating time.
Message:	Detailed information of this log.
Type:	The type of this log.
Device Name:	The device name. If the log is system-level, this column will be blank.
MAC:	The MAC address of the device. If the log is system-level, this column will be blank.
IP:	The MAC address of the device. If the log is system-level, this column will be blank.

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Chapter 9 Preference

Click  at the top right corner to configure the SMTP settings.



The image shows a 'Preference' dialog box with a title bar. Below the title bar, there are four input fields with labels to their left: 'Mail server address:' containing 'smtp.example.com', 'Mail server port:' containing '25', 'Mail username:' containing 'name@example.com', and 'Mail password:' containing a series of dots. At the bottom of the dialog, there are two buttons: 'OK' and 'Cancel'.

Figure 9-1 Preference

Mail server address:	Specify the SMTP server to be used by the system.
Mail server port:	Specify the email server port.
Mail username:	Specify the SMTP username.
Mail password:	Specify the SMTP password.

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Chapter 10 My Settings

This window is used to view and edit the logging user's information.

You can edit the logging user's password, email, telephone and notes on this page. Among them, email, telephone and notes are optional.

My setting

Role: Administrator

- ✓ View status of all devices
- ✓ Change configurations of all devices
- ✓ Change configurations of the server

User Name: admin

Password: Change

E-mail: admin@pharos-control.com

Telephone:

Notes: This is administrator account.

OK Cancel

Figure 10-1 My Settings

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Chapter 11 Application Example

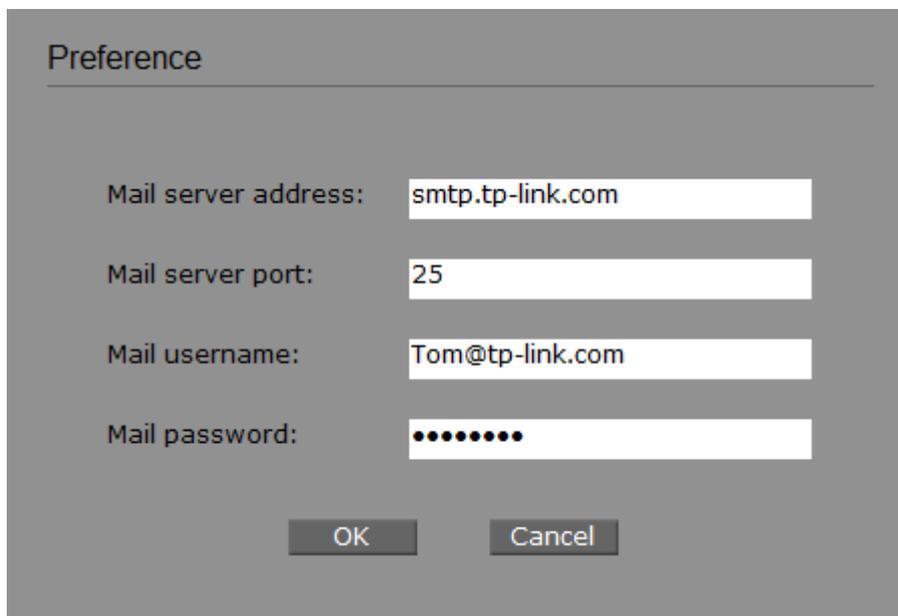
11.1 Email Notification

The Pharos Control can monitor and record the specified device group's status changes, such as managed, unmanaged and error.

Example: send an email notification when a specified device group's status goes wrong.

Configuration Procedure:

Step 1. Open the Preference page to configure the SMTP server. Enter the mail server's address and port, and specify the email account and password on the following page.



The screenshot shows a dialog box titled "Preference" with a horizontal line below the title. It contains four input fields, each with a label to its left: "Mail server address:" with the value "smtp.tp-link.com", "Mail server port:" with the value "25", "Mail username:" with the value "Tom@tp-link.com", and "Mail password:" with a masked password represented by ten black dots. At the bottom of the dialog, there are two buttons: "OK" and "Cancel".

Figure 11-1 Configure the Mail Server

Step 2. Open the **Trigger->Add trigger** window.

Step 3. Specify the trigger's name and device group.

Step 4. Set the conditions as from Managed to Unmanaged.

Step 5. Specify the recipient and the subject of the notification email in the Action box.

Edit rule

Name:

Devices Group:

Condition: From: To:

Action

Type:

To:

Subject:

Figure 11-2 Add an Error Trigger Rule

The notification email will display the unmanaged device's information:

```
From: Tom@tp-link.com  
Sent: Wednesday, September 10, 2014 1:57 AM  
To: Jack@tp-link.com  
Subject: Unmanaged Report  
  
Device 1 , device ip:192.168.0.254 , state : MANAGED -> UNMANAGED
```

Figure 11-3 Notification Email

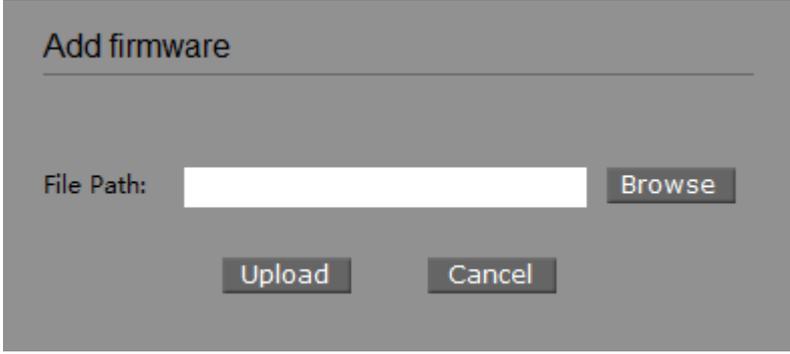
11.2 Auto-upgrade

The Pharos Control can execute discovery, reboot and upgrade actions on specified device(s) at a certain point in time.

Example: Specify a time to upgrade the device.

Configuration Procedure:

Step 1. Upload the firmware file to the server on the page **Firmware->Add firmware**.



The image shows a dialog box titled "Add firmware". It has a light gray background. At the top, the title "Add firmware" is displayed. Below the title is a horizontal line. Underneath the line, the text "File Path:" is followed by a white rectangular input field. To the right of the input field is a dark gray button labeled "Browse". Below the input field and "Browse" button are two more dark gray buttons: "Upload" on the left and "Cancel" on the right.

Figure 11-4 Upload the Specified Firmware File

Step 2. Open **Device->Add schedule** window.

Name: Upgrade

Scheduled

Once

Date: 2014-05-08 0:0

Cycle

From: 2014-05-08 0:0

To: 2014-05-08 0:0

Period: Month Date: 1 Time: 0:0

Task

Task: Firmware upgrade

Devices	IP	Firmware

OK Cancel

Figure 11-5 Schedule a Firmware Upgrade Task

Step 3. Enter the scheduled task's name and specify the scheduled period as once and specify the exact date.

Step 4. In the Task box, select the scheduled task as Firmware upgrade and select the target Device and Firmware in the list below.

11.3 Auto-reboot

The Pharos Control can execute discovery, reboot and upgrade actions on specified device(s) at a certain point in time.

Example: Specify a time to reboot the device.

Configuration Procedure:

Step 1. Open **Device->Add schedule** window.

Add schedule

Name:

Scheduled

Once
 Date: :

Cycle
 From: :
 To: :
 Period: Date: Time: :

Task

Task:

Devices	IP
<input checked="" type="checkbox"/> CPE510 - 192.168.0.254	192.168.0.254

Figure 11-6 Schedule a Device Reboot Task

Step 2. Enter the scheduled task's name and specify the scheduled period as once and specify the exact date.

Step 3. In the Task box, select the scheduled task as Reboot and select the target Device and click **OK** to apply.

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