User's Guide

PowerAlert® Office

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1. Introduction

PowerAlert software provides monitoring and control functions of one or two UPS systems. PowerAlert software is installed on a desktop PC or networked server which connects to the UPS system(s) through a serial or USB cable connection. This software can be configured to automatically shut down the computer in the event of a power failure. PowerAlert software also allows the UPS system to appear as an SNMP-manageable device on the network, enabling remote monitoring and control via PowerAlert Network Management System (PANMS) software or a third-party Network Management System.

PowerAlert software is available in three packages:

- Office Advanced monitoring and control functions
- Home Basic monitoring and control functions
- · Medical Monitoring and control functions optimized for use with Tripp Lite Medical Cart solutions

Refer to Appendix A for an overview of the functions supported by each of the PowerAlert software packages.

This User Guide covers the features and functions of the Office package.

1.1 System Requirements

- Personal computer with a supported operating system: Windows 8 or 10; Windows Server 2012, 2016 or 2019
- CPU: 4 core 2.0 GHz or higher
- Memory: Minimum of 4 GB
- Available disk space: Minimum of 300 MB
- Ethernet network that supports the TCP/IP protocol
- · Supported web browser: Google Chrome, Mozilla Firefox, Edge, Internet Explorer 10 or later, Safari

Download the latest version of PowerAlert software from the Tripp Lite website at tripplite.com/products/management-software For detailed instructions on installing PowerAlert software, refer to the PowerAlert Office/Home/Medical Installation Guide.

Note that the three PowerAlert packages are mutually exclusive--only one can be installed at a given time. An existing installation of PowerAlert software must be uninstalled before a different package can be installed.

2. Initial Configuration

For instructions on installing PowerAlert software, refer to the PowerAlert Installation Guide. Once installed and launched, PowerAlert software will automatically attempt to detect a connected UPS system. If the UPS system is not detected, refer to the **Scan for Device** function in Device Maintenance (Top Menu).

2.1 SNMP Configuration

PowerAlert software uses an embedded SNMP agent and Management Information Bases (MIBs) to support management over the network. The SNMP agent responds to standard SNMP commands (Get, Get Next and Set) and can generate SNMP traps (messages). The MIBs determine which parameters can be monitored and controlled. Three MIB files—TRIPPLITE.MIB, TRIPPLITE-PRODUCTS.MIB and RFC-1628-UPS.MIB—must be imported to each Network Management System (NMS) station that will be monitoring/controlling the device. The MIB files can be downloaded directly from the PowerAlert software interface; see Section 3, Figure 3-44.

Note: SNMP Users are configured in the SNMP Users tab of the Security > User Accounts menu item.

SNMPv1 & v2c Definitions

Username:

A general name for the user. This data is not included in network communications

Community:

The key required for responses to Set or Get requests. The Community name must be between 6 and 32 ASCII characters; alphanumeric and the following special characters are allowed: $!"#$\%\&\()*+,-./:;?@[\]^_`{|}~.$

Role:

Each Role contains a set of predefined Privileges related to device functions. In order to issue Set commands --for example, load control – the SNMP User must be assigned a Role with the corresponding Privileges. See Appendix A for more details about Roles and Privileges.

SNMPv3 Definitions

Username:

The identifier of the user profile. SNMPv3 maps Gets, Sets and Traps to a user profile by matching the username of the profile to the username in the data packet being transmitted. The username cannot exceed 32 ASCII characters; alphanumeric and the following special characters are allowed: $!@\#\$\%^*()\{[]\}\sim$.

Security Level:

The Tripp Lite implementation of SNMPv3 supports three security levels: No Authentication No Privacy (NoAuthNoPriv), Authentication No Privacy (AuthNoPriv) and Authentication Privacy (AuthPriv)

Auth. Protocol:

The Tripp Lite implementation of SNMPv3 supports MD5 and SHA authentication.

Auth. Passphrase:

A phrase of 8 to 32 ASCII characters (alphanumeric and !"#\$%&\'()*+,-./:;?@[\] _ \ that verifies the authenticity of the NMS. It also verifies that the message has not been changed during transmission, or that the message was communicated in a timely manner (not delayed nor copied and resent later at an inappropriate time).

Privacy Passphrase:

A phrase of 8 to 32 ASCII characters (alphanumeric and !"#\$%&\'()*+,-./:;?@[\] ^ `{|}~) that ensures the privacy

2. Initial Configuration

of the data (by means of encryption) sent via SNMPv3 between the NMS and the device.

Privacy Protocol:

The Tripp Lite implementation of SNMPv3 supports the AES and DES protocols for encrypting and decrypting data.

Role:

Each Role contains a set of predefined Privileges related to device functions. In order to issue Set commands --for example, load control – the SNMP User must be assigned a Role with the corresponding Privileges. See Appendix A for more details about Roles and Privileges.

3. PowerAlert Office

3.1 Accessing the System Tray

The PowerAlert System Tray App provides a quick-reference graphical summary of UPS status. To launch the app, go to the computer's Start Menu, scroll down to the Tripp Lite folder, and click "PowerAlert System Tray App" (Figure 3-1).

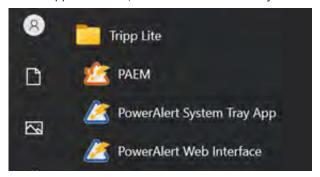


Figure 3-1: Start Menu / Tripp Lite Folder

Open the computer's system tray, then click the PowerAlert icon to generate a graphic showing the status of the UPS (Figure 3.2).



Figure 3-2: System Tray Icon and UPS Status Graphic

During installation of the PowerAlert software, a PowerAlert Web Interface icon is added to the computer's desktop. To access the interface, double-click the icon. Alternatively, the interface can be accessed from the Tripp Lite folder in the Start menu (Figure 3-3).

PowerAlert

PowerAlert

PowerAlert System Tray App

PowerAlert Web Interface

Figure 3-3: Web Interface Desktop Icon and Start Menu item

The default Administrator Username and Password are both **localadmin**. Note that on initial login, you will be required to change the password. Double-click the PowerAlert Web Interface icon to open the login page of the PowerAlert Office interface (Figure 3-4).



Figure 3-4: PowerAlert Office Login Page

Remote Access

To access PowerAlert software remotely, open a supported web browser. In the address bar, enter the IP address of the server on which PowerAlert is installed, followed by the configured port, e.g. http://192.168.1.1:8080 (Figure 3-5).



Figure 3-5: Accessing PowerAlert from a Web Browser

On logging in, the Dashboard page is displayed (Figure 3-6).



Figure 3-6: Dashboard Page

3.2 PowerAlert Overview

PowerAlert Layout

The PowerAlert Office web interface is comprised of three main sections (Figure 3-7):

- 1 Top Menu Alert summary and administrative functions
- 2 Main Menu Navigation to device management functions
- 3 Content- Information reflective of selections made in the Main Menu or Top Menu

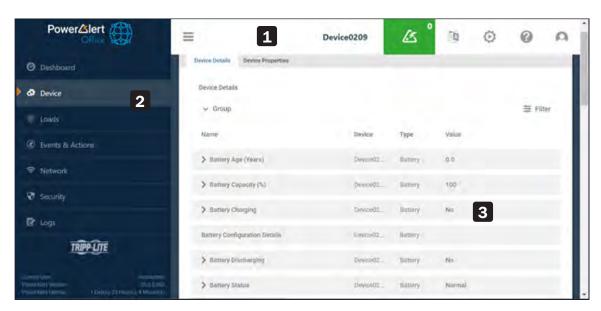


Figure 3-7: PowerAlert Interface Main Sections

Navigation Elements

A number of graphical elements are used for navigation throughout the interface.

Sub-Menus – Certain menu items contain submenus. Click a menu item to expand the selection, displaying its sub-menu (Figure 3-8). Click the menu item again to contract the sub-menu.

Tabs – Tabs are used to organize information of a common topic into logical groupings (Figure 3-9). Select a tab to view its content.

Pages – Sequenced numbers with arrows indicate that the content exceeds one page (Figure 3-10). Select each to navigate pages as follows:

- Go to the first pages of the content
- Go to the previous page number

Number Go directly to the selected page

- Go to the next page
- Go to the last page of the content

Scroll Bars – In cases where content exceeds the size of the window, vertical and/or horizontal scroll bars appear (Figure 3-11).

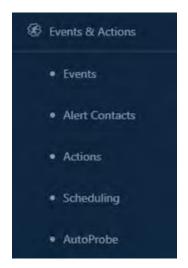


Figure 3-8: Sub-Menus



Figure 3-9: Tabs



Figure 3-10: Pages



Figure 3-11: Scroll bars

Chevrons – Click the chevron next to an item to expand or contract the content of the item (Figure 3-12).

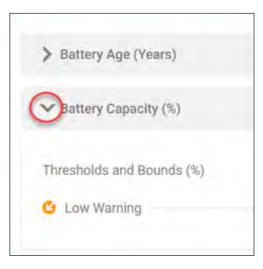


Figure 3-12: Chevrons

Adjusting Views

Sorting – When content is displayed in table format, the information can be sorted in the following manners (Figure 3-13):

- **Columns** Click a column title to sort the table by that category, in ascending order.
- Arrows Click the up or down arrow adjacent to a column title to sort the table in ascending or descending order, respectively.

Filters – Click **Filter** to open a dialog box in which a variety of filtering options can be selected. Click the **Apply Filters** button to update the displayed information. Click the **Clear Filters** button to restore the default view (Figure 3-14).

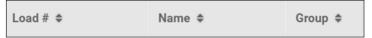


Figure 3-13: Columns and arrows

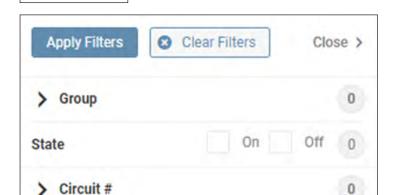


Figure 3-14: Filter functions

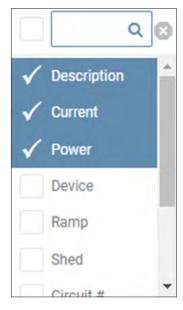
≅ Filter

Controllable

Columns – Click **Columns** (in Loads) to open a menu of applicable column titles (Figure 3-15). Select or unselect the preferred column titles, then click anywhere on the screen.



Figure 3-15: Columns



View – Click **View** (in Data Log) to open a menu of variables (Figure 3-16). Select or unselect the preferred variables, then click the Save button.



Figure 3-16: View



Refresh – Click **Refresh** to update the displayed content (Figure 3-17).

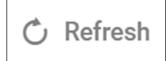


Figure 3-17: Refresh

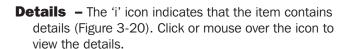
Export – Click **Export** to configure and generate an export of the contents (Figure 3-18).



Figure 3-18: Export

Icons

Pencil – The pencil icon indicates that the item can be edited (Figure 3-19). Click the icon to open a dialog box in which the edits can be made.



Control – The gear icon indicates that a control can be executed (Figure 3-21). Mouse over the icon to view a description of the control. Click the icon to execute the action.

Delete - The ☑ icon indicates the item can be deleted (Figure 3-22). Click the icon to mark the item for deletion; the action will change the icon color to red. To complete the deletion, click the confirmation Delete button (also in red).



Figure 3-19: Edit



Figure 3-20: Details



Figure 3-21. Control



Figure 3-22: Delete icon and Delete (confirmation) Button.

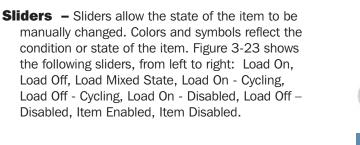




Figure 3-23: Slider States and Colors

Tags – Colored shape tags indicate the severity of Events and Alerts (Figure 3-24):

red octagon = Critical, blue circle = Informational, yellow triangle = Warning.



Figure 3-24: Tags

Checkmark – Used in the Alert summary, a blue Checkmark indicates that an item has been cleared or acknowledged (Figure 3-25).



Figure 3-25: Checkmark

3.3 Top Menu

The Top Menu is used for viewing Alerts and performing administrative functions (Figure 3-26).



Figure 3-26: Top menu

Device

The device name appears to the left of the colored Alert icon. To edit the device name, refer to the Device > Device Properties section of this document. If the computer detects two connected UPSs, the name will become interactive. Click the name to display a pulldown menu containing the device name of each connected UPS. By selecting a device from this menu, the content of the Web Interface will update to reflect the selection (Figure 3-27). In the event that a previously connected device was disconnected, it may appear as (Inactive) in the Device name field. To remove it, go to the Device menu item, Device Properties tab, and click the delete icon (Figure 3-28).



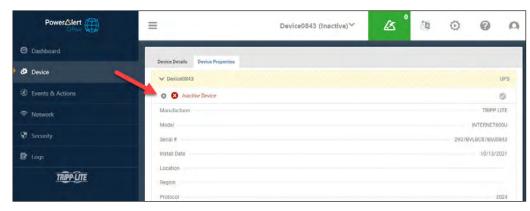


Figure 3-27: Device Selection

Figure 3-28: Inactive Device

Alerts

The Alerts icon is located to the right of device name (Figure 3-29). The icon's color (matching Tags) indicates the highest severity level of all active Alerts. The number in the upper right corner of the icon indicates the quantity of active Alerts. Click the icon to display a list of active Alerts for the device as well as any peripherals (e.g. sensors) connected to it (Figure 3-26). An Alert is active if it has not been acknowledged, nor cleared. An Alert clears when the condition that triggered the Alert is no longer in effect. An Alert can be acknowledged in one of two ways: automatically (configured in Events & Actions > Events) or manually. To manually acknowledge one or more Alerts, select the checkboxes in the **Ack**. column, then click the **Save** button. To manually acknowledge all Alerts, click the icon in the **Ack** column title, then click the **Save** button. Once an Alert has been both cleared and acknowledged, it is removed from the list. By default, the list is sorted by Date/Time, in descending order, i.e. the most recent Alerts appear at the top of the list.

Note: If two UPS systems are connected, the Alerts for both devices will be displayed at all times.

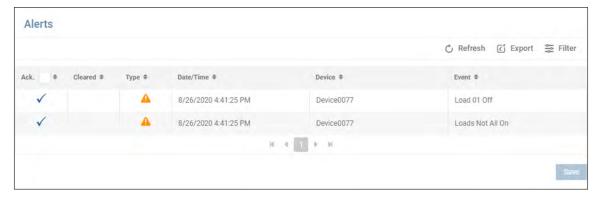


Figure 3-29: Alerts screen

Click **Refresh** to update the page. Click **Filter** to open a window in which options can be selected for refining the displayed content of the Alert Log (Figure 3-30). Click **Close** once all selections have been made.

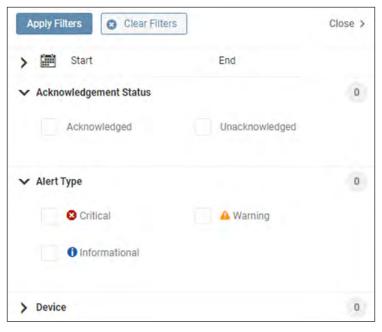


Figure 3-30: Filter

Click **Export** to open a window in which the desired file format (CSV or XML) and export destination can be selected (Figure 3-31). Select the Download option to locally export the log. Upon selecting the Email option, a table of recipients will appear, one of which can be selected. Refer to section **4.5 Events & Actions** > Alert Contact sub-menu item for creating email recipients. Click the **Continue** button to execute the export.

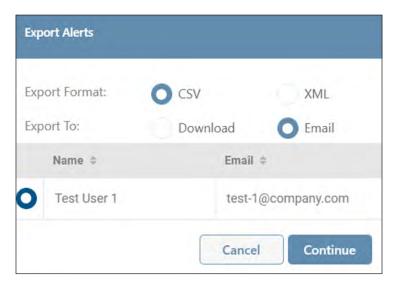


Figure 3-31: Alert export options

Language

Click the Language icon to select a personal preference for the desired language (Figure 3-32). Note that this selection applies only to the logged-in user; the default language for all users is set using the <u>Global Settings</u> function. GUI contents, email notifications and generated reports will all reflect the selected language.



Figure 3-32: Language icon

Administration

Click the Gear icon to display a sub-menu of Administrative functions supported by the device (Figure 3-33). Note that if 'LED Configuration', 'Restart Device', 'Turn Off Device' or 'Turn On Device' do not appear in the pulldown menu, the device does not support these functions.



Figure 3-33: Administration Icon and Sub-Menu

Global Settings

This option allows for configuration of global settings, including language, temperature, date & time, as well as shutdown option (Figure 3-34). To exclude a computer port from being used during device scans, select and/or enter the port value in the Device Discover Scanning pulldown menu (Figure 3-35). All users accessing the device are subject to these settings. Users have the option of individually overriding the time zone using the **Preferences** function. Once all configuration parameters have been entered, click the **Save** button.

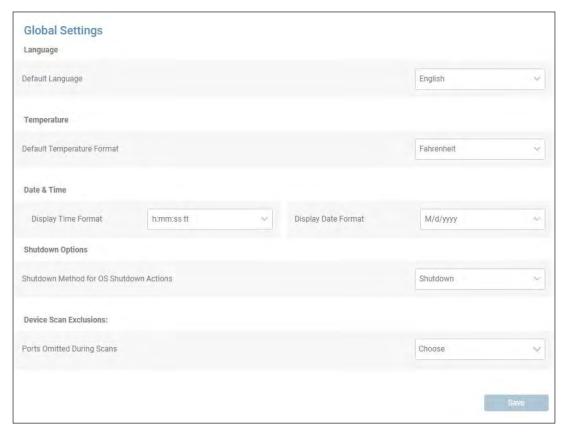


Figure 3-34: Global settings



Figure 3-35: Device Scan Exclusions

Maintenance

This option allows for execution of maintenance functions – software update and backup management (Figure 3-36).



Figure 3-36: Maintenance

Click the **Check for Updates** button to confirm availability of a PowerAlert Office update at the Tripp Lite website (Figure 3-37).

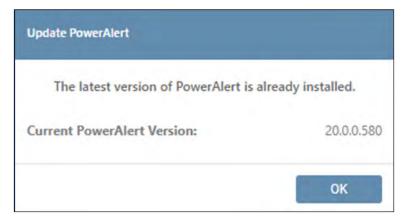


Figure 3-37: Check for Updates

Click the **Backup PowerAlert Settings Now** button, followed by the **Continue Backup** button to store the configuration on (Figure 3-38). On completing the backup, click the **Download** button to optionally save the configuration to the local environment (Figure 3-38).

The download file name will be in the format "card (x).bck", which is used by other downloads. Consider renaming the file to distinguish it from similar files, e.g. "PowerAlert_backup_07_31_2021.bck".



Figure 3-38: Performing a PowerAlert Configuration Backup

Click the **Restore from Saved Backup** button to upload a configuration file (Figure 3-39). If a previous Backup does not exist, the configuration source must be selected using the **Browse** button. Upon selecting the file, click **Upload**, then **Continue**. If a Backup on the device exists, the configuration source can be either System Backup (stored on the device) or External Backup (**Browse** to select).

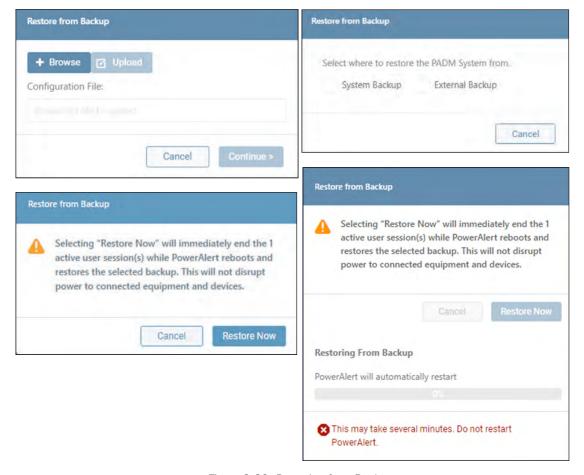


Figure 3-39: Restoring from Backup

Scan for Devices - This item scans the host computer's ports for connection to Tripp Lite devices. In certain cases, PowerAlert may fail to establish or maintain contact with a device; for example, if the USB connection to the computer is removed then re-inserted. Click the **Scan for Devices** button, followed by the **Scan Now** button to execute the scan (Figure 3-40).



Figure 3-40: Scan for Devices

Reboot OS

This item performs a reboot of the host computer's Operating System. Press the **Reboot Now** button to execute the action (Figure 3-41).

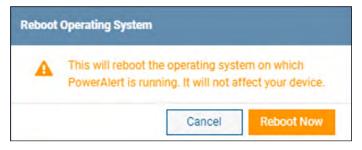


Figure 3-41: Reboot Operating System

Shutdown OS

This item performs a reboot of the host computer's Operating System. Press the **Shutdown Now** button to execute the action (Figure 3-42).

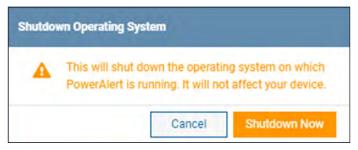


Figure 3-42: Shutdown Operating System

Restart Device – Click the "Shutdown Operating System" checkbox in order to gracefully shut down the OS prior to shutting down the device. Optionally, specify a Shutdown OS Delay Time. On clicking the **Restart** button, the OS Delay will begin counting down. On completion of the OS Shutdown, the device Shutdown Delay will begin counting down, after which the device will restart (Figure 3-43).

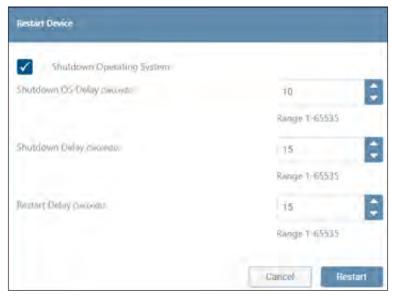


Figure 3-43: Restart device

LED Configuration – For UPS systems that support controllable LED Banks (e.g. SMART1000PSGLCD), the LED Configuration menu item provides an interface for setting the Brightness, Illumination Effect, Color and Speed of the front and bottom LED banks (Figure 3-44). For details on use of this utility, refer to the LED Configurator User Guide which can be downloaded from the Tripp Lite website.

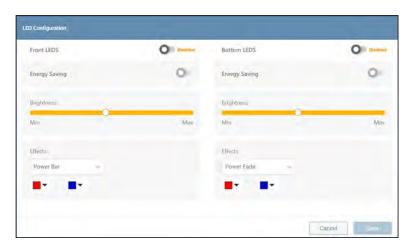


Figure 3-44: LED Configuration

Turn Off Device – Click the "Shutdown Operating System" checkbox in order to gracefully shut down the OS prior to shutting down the device. Optionally, specify a Shutdown OS Delay Time. On clicking the **Turn Off** button, the OS Delay will begin counting down. On completion of the OS Shutdown, the device Turn Off Delay will begin counting down (Figure 3-45) after which the device will be turned off.

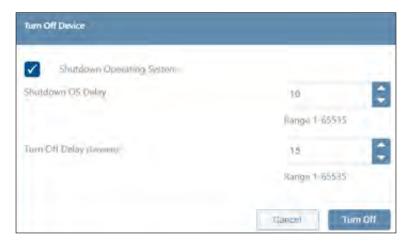


Figure 3-45: Turn Off Device

Turn On Device – This item turns on the device after the specified delay (Figure 3-46).



Figure 3-46: Turn On device

Support

Click the Question icon to display a sub-menu of Support items (Figure 3-47). Click **Help/Contact** to display links for online support and customer support. In the upper right corner, click the **Generate Support Report** button to compile a report that can be shared with Tripp Lite Customer Support for troubleshooting; click the **Continue** button to generate the report. Upon successful completion, a banner will appear; click the **Save Report** button to save the report to the computer's Downloads folder. The download file name will be in the format "card (x).bck", which is used by other downloads. Consider renaming the file to distinguish it from similar files, e.g. "SupportReport001.bck".

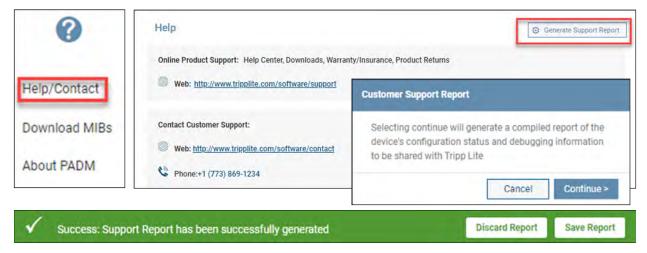


Figure 3-47: Help/Contact

Click **Download MIBs** to automatically download the Tripp Lite MIB package to the computer's Downloads folder. Click **About PowerAlert** to display information related to the PowerAlert software (Figure 3-48).

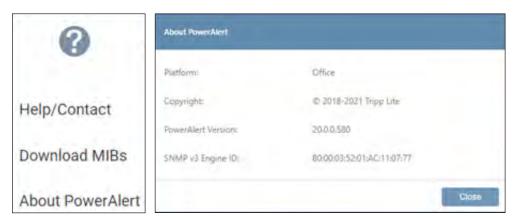


Figure 3-48: Download MIBs and About PowerAlert

User

Click the Person icon to display a sub-menu of options related to the login. Click **Change Password** to change the existing password of the logged-in user. Click the 'eye' icon to view the plain text password entered. Click **Log Out** to terminate the current session (Figure 3-49).

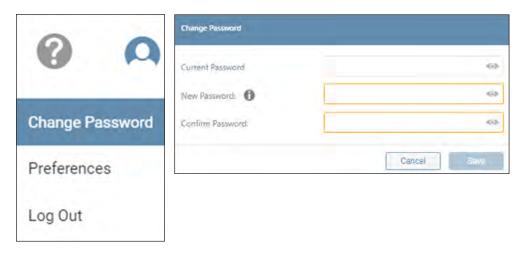


Figure 3-49: User Menu, Change Password and Logout

Click **Preferences** to override the global settings for Time Zone (Figure 3-50).

Click **Reset all Preferences to Default** to restore the settings set using the Global Settings. Once all settings have been made, click the **Save** button.

Note: Policies related to password length and character use are set in Main Menu > Security.



Figure 3-50: User Preferences

The Main Menu enables navigation to the configuration, monitoring and control functions of the device. Each of the Main Menu items (Figure 4-1) is described in the following sections.

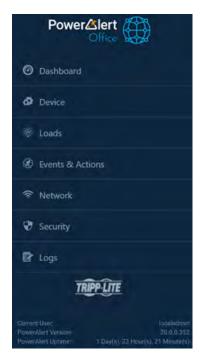


Figure 4-1: Main Menu

4.1 Dashboard

The Dashboard menu item displays a graphical summary of the device's operational status in the form of Gauges and Graphs (Figure 4-2).



Figure 4-2. Dashboard Gauges and Graphs

Gauges

To select which gauges to display on the Dashboard, click **Gauges** in the upper right corner, make the desired selections, then click **Apply Gauges** (Figure 4-3). To clear all selections, click **Clear Gauges**. Certain gauges are interactive – if the cursor changes when moving over the gauge, click it to open a window in which its parameters can be edited. Note that these adjustments can also be made in the Device > Device Details menu item.

In the event that the threshold supports both "Warning" and "Critical" level bounds, ensure that the "Warning" values are within the range/do not equal to or exceed the limits set by the "Critical" values.

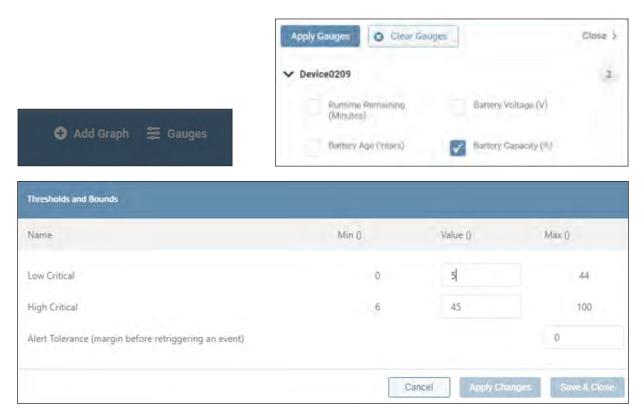


Figure 4-3: Gauges

Graphs

Click **Add Graph** in the upper right corner to select which graphs to display on the Dashboard (Figure 4-4). After entering a Name and selecting the desired Device, Category and variables, click **Save**. To edit the graph, click the pencil icon in the upper right corner of the graph. To remove the graph, click the so icon next to the pencil icon.





Figure 4-4: Graphs

4.2 Device

The Device menu item is comprised of two tabs: Device Details and Device Properties (Figure 4-5).



Figure 4-5: Device Details and Device Properties

Device Details

This tab displays the metrics of the device and all connected peripherals (Figure 4-6). Use the **Group** and **Filter** functions to customize the displayed information. Icons to the right of an item indicate whether edits or controls can be performed.

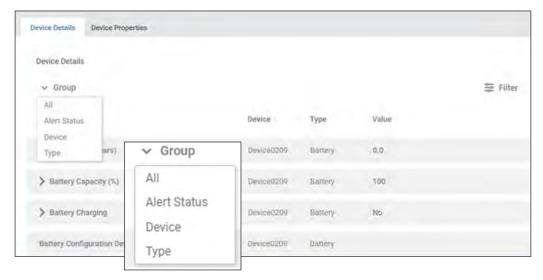
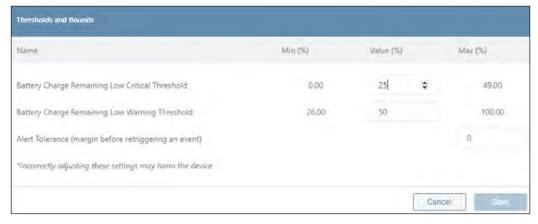


Figure 4-6: Device Details

Note that certain metrics – denoted with a chevron – need to be expanded in order to display their editable / actionable content. For example, in Figure 4-7, expanding "Battery Charge Remaining" reveals that Thresholds and Bounds can be edited. Click the pencil icon to open a window in which these edits can be made. In the event the threshold supports both "Warning" and "Critical" level bounds, ensure the "Warning" values are within the range / not equal to or exceeding the limits set by the "Critical" values.

In general, when a parameter Threshold is crossed, an Alert will be generated. The Tolerance sets the amount that the parameter must 'return' for the Alert to clear. Example: the Low Warning threshold is set to 50% and the Alert Tolerance is set to 2%. If the Battery Charge falls below 50%, an Alert will be generated. The Alert will clear when the Battery charge rises above 52%.





Device Properties

This tab displays information related to the identity of the device and all connected peripherals (Figure 4-8). Certain parameters, such as "Device Name", "Location" and "Installation Date" are editable; click the pencil icon to enter or modify these parameters.





Figure 4-8: Displaying and Editing Device Properties

4.3 Loads

The Loads menu item will appear only for devices that support loads (Figure 4-9). It is comprised of three tabs: Loads Overview, Loads Ramp/Shed and Load Groups.

Note: PowerAlert Office will display only the tabs that the device supports.



Figure 4-9: Loads Tabs

Loads Overview

This tab displays a summary of the device's loads, including status and outlet-level metrics, if applicable (Figure 4-10). Move the sliders to change the state of the Main Load or individual Loads (if supported by the device). Use the **Columns** and **Filter** functions to customize the displayed information. To edit Load details and view additional outlet-level information, click the pencil icon to the left of the item. Click the **Save** button once all edits have been made.

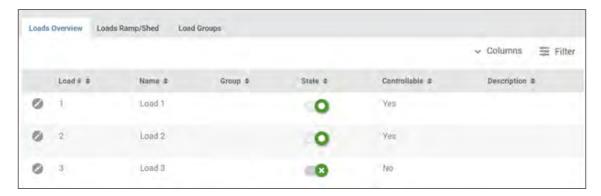




Figure 4-10: Loads Overview Tab and Editing Load Details

Loads Ramp/Shed

Loads Ramp/Shed is supported only by UPS systems with two or more controllable loads. This tab displays a summary of Ramp and Shed settings across all Loads (Figure 4-11). To adjust the state and delay times for each Load, click the **Edit** button, then use the sliders and up/down arrows. Click the **Save** button once all edits have been made. Click the **Begin Ramp** or **Begin Shed** buttons to immediately execute the respective action.

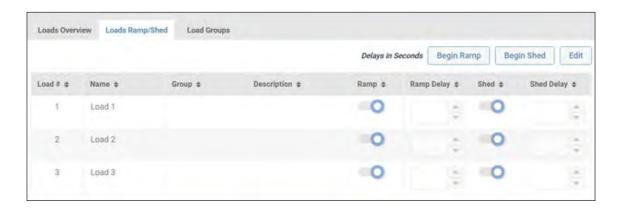




Figure 4-11: Load Ramp/Shed

Load Groups

Loads Groups are supported only by UPS systems with two or more controllable loads. This tab displays a summary of configured Load Groups (Figure 4-12). To create a Load Group, click **Add Load Group**. In the dialog box that appears, enter a Name for the Load Group (required) and, optionally, a Description. Next, from the Load list, select which Loads are to belong to the Load Group. To filter the list to display only loads that have not yet been assigned to a load group, click **All Loads** and select the **Unassociated** menu item (Figure 4-13). Click the **Save** button at the bottom of the window once all edits have been made. Click the pencil icon at right to edit the item. All newly-created Load Groups are enabled, by default; to disable the Load Group, shift the slider to the left (Figure 4-13).



Figure 4-12: Load Ramp/Shed

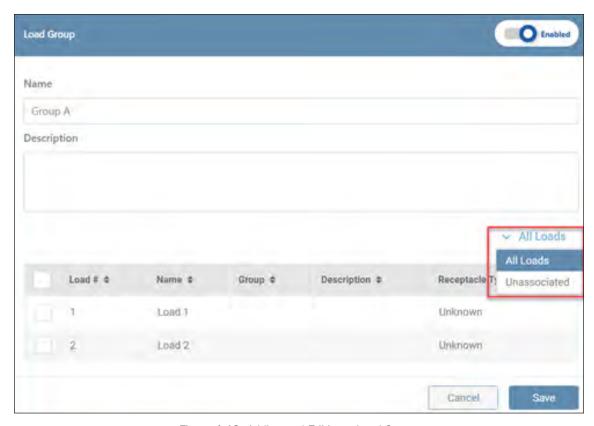


Figure 4-13: Adding and Editing a Load Group

To delete one or more Load Groups, click the ② icon to the left of each line item (Figure 4-14). On doing so, the **Delete Load Group(s)** button becomes active (turns red); click the button to complete the deletion.



Figure 4-14: Deleting a Load Group

4.4 Batteries

This menu item is displayed only for UPS systems that support the use of External Battery Packs. The Batteries menu item summarizes the status and metrics of all batteries in use by the device (Figure 4-15). Click the pencil icon to the right of the line item to edit the item. In the window that appears, click the calendar icon to set or modify the Installation and Replacement dates. Use the up-down arrows to adjust the Battery Age Thresholds. Once all edits have been completed, click the **Save** button.



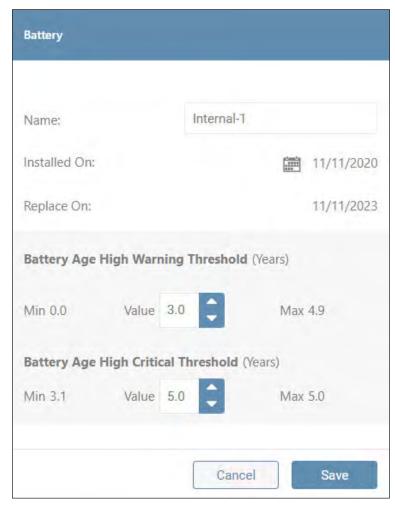


Figure 4-15: Summary List of Batteries and Editing a Battery

To add and configure External Battery Packs (EBPs), click the **Add** button at the top of the summary page. When adding External Battery Packs (EBPs), PowerAlert Office uses an embedded configuration file. Updates to this file are posted occasionally on the Tripp Lite website. If such an update has been downloaded, click the **Import a Battery Configuration File** button to upload it to PowerAlert Office (Figure 4-16). In the next step, use the up-down arrows to select the EBP model and quantity to be added to the battery profile, then click the **+Add** button. Repeat this step for all additional EBPs. Click the icon to the left of the EBP to remove it from the battery profile. Once all EBPs have been added, click the **Apply** button. This initiates a process whereby the runtime of the battery profile – which includes the internal battery—is calculated and added to the device configuration. A window will appear displaying progress of the configuration.

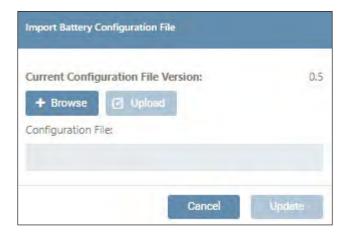






Figure 4-16: Adding an EBP and Configuring the Battery Profile

Once the process is complete, the newly added EBPs will appear in the summary list (Figure 4-17). To delete one or more external batteries, click the control icon to the left of each line item. On doing so, the **Delete** button becomes active (turns red); click the button to complete the deletion. Upon confirming the deletion, the system will automatically re-configure using the revised battery profile.

NOTE: Internal batteries cannot be deleted.

When smart external batteries are connected to a UPS, PowerAlert Office will 'discover' and identify them as such in the "Smart" column of the "Batteries" list. Under certain conditions, the External Battery Pack configuration utility embedded in PowerAlert Office does not need to be used.

- With smart internal batteries and <u>up to six external smart battery packs installed</u>, the UPS calculates the runtime. The embedded EBP utility should not be used.
- With smart internal batteries and more than six external smart battery packs installed, the embedded EBP utility should be used to calculate runtime. Note that PowerAlert Office (and the local display on the UPS) will treat these additional (>6) batteries as 'non-smart'.
- With a combination of smart and non-smart internal and external battery packs, the embedded EBP utility should be used
 to calculate runtime.

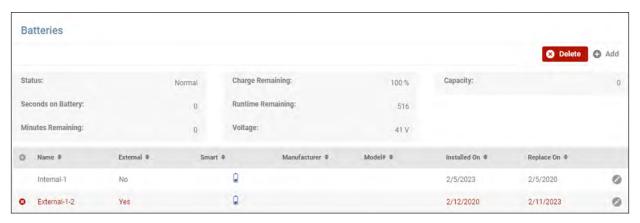


Figure 4-17: Deleting an EBP

4.5 Events & Actions

Events

This sub-menu item summarizes the status and configuration of all events applicable to the device and connected peripherals (Figure 4-18). To enable Auto-Acknowledgement and Logging for all events, select the appropriate check boxes at the top of the Events list.

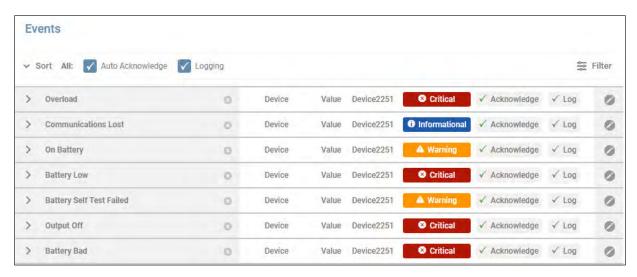


Figure 4-18: Event Summary

Click the pencil icon to the right of an Event to open a dialog box in which Event settings can be modified (Figure 4-19). If an Event is disabled, it will not be logged, nor can it be selected as a trigger for an Action. Logging and Auto-Acknowledgement of the event can be set using the respective check boxes; note that this will override the Auto-Acknowledge and Logging selections made on the Events list.

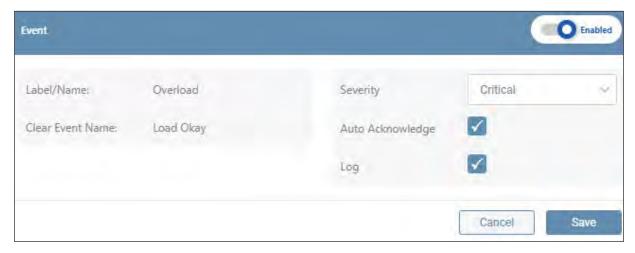
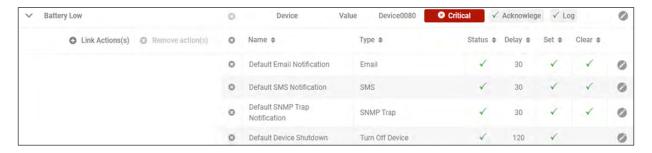


Figure 4-19: Editing an Event

Click the chevron to the left of the Event name to expand or close the section summarizing all Actions associated with the Event (Figure 4-20). To remove one or more actions from the event, click the content (so icon to the left of each item. On doing so, the Remove action(s) button becomes active (turns red); click the button to complete the deletion. To edit an action, click the pencil icon to the right of the item. A window will open asking you to specify whether the edit is to be applied to the specific event (occurrence) or to all events containing the action. On making the selection, an edit window will open in which action parameters can be edited. Click **Save** once all edits have been made.

Notes: · Actions can also be edited in the Events & Actions > Actions sub-menu.

· Delays apply only to Set actions. Clear actions will execute immediately.





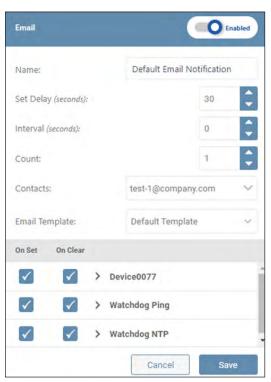
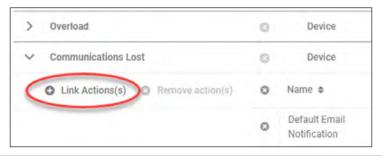


Figure 4-20: Editing Event Actions

Click **Link Action(s)** to select which Actions are to be triggered by the Event (Figure 4-21). In the window that opens, select whether the Clear and/or Set Event(s) triggers the Action. When all edits have been made, click the **Link Action(s)** button. Refer to the Action menu item for adjusting action parameters.



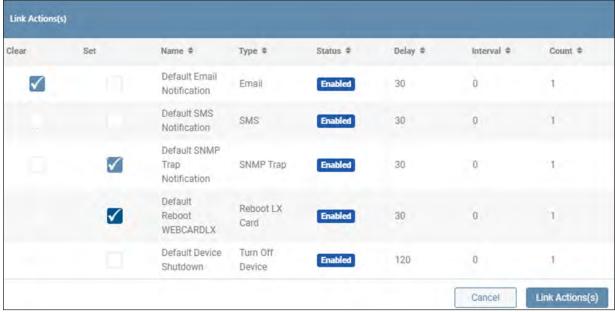


Figure 4-21: Adding an Action to an Event

Alert Contacts

This sub-menu item allows for management of Alert notification recipients. Three types of Alert contacts can be created: Email, SMS and SNMP. The main page displays a summary of all Alert contacts (Figure 4-22).



Figure 4-22: Alert Contacts

To create a new contact, click **Add An Alert Contact** and select the contact type from the menu. A dialog box appears, reflecting the configuration parameters for the selected recipient type. Examples of dialog boxes for SNMPv1 and Email recipients are shown in Figure 4-23. New entries are enabled, by default; to disable the entry, move the slider to the left. A disabled entry will not receive Alert notifications. To confirm that contacts can receive notifications, click the **Send Test** button; the results of the test will appear to the right of the button. Once all configuration parameters have been entered, click the **Save** button. There is no practical limit to the number of Alert contacts that can be created.





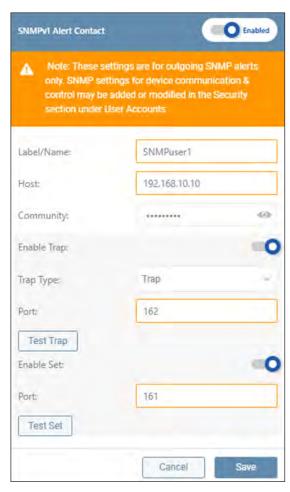


Figure 4-23: Adding an Alert Contact – SNMPv1 and Email Examples

To edit a contact, click the pencil icon to the right of an entry. Once all edits have been completed, click the **Save** button. To delete one or more contact, click the icon to the left of each line item. On doing so, the **Delete Contact(s)** button becomes active (turns red); click the button to complete the deletion.

Note: Newly created Alert Contacts are automatically assigned as recipients to default notifications and to Actions where "Contacts:" is set to "All". Refer to the Actions menu, "Default Email Notification" item to edit this setting.

Actions

This sub-menu item summarizes the status and configuration of all Actions applicable to PowerAlert, the device and connected peripherals (Figure 4-24). Click the pencil icon to the right of an Action to configure its settings. If an Action is disabled, it cannot be selected when configuring Events (Link Actions). To delete one or more actions, click the icon to the left of each line item. On doing so, the **Delete Action(s)** button becomes active (turns red); click the button to complete the deletion.

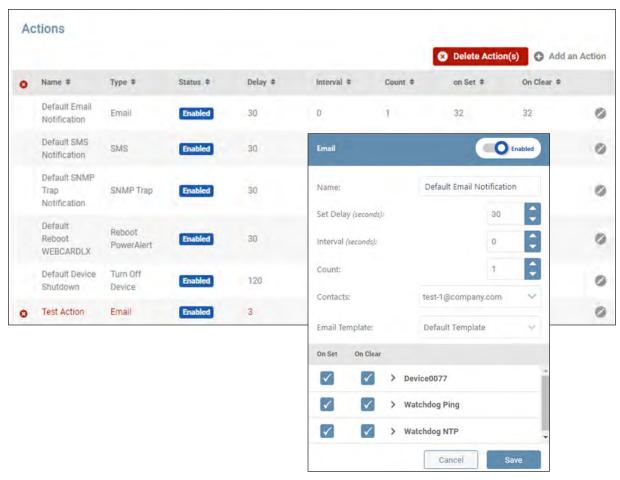


Figure 4-24: Actions Summary and Editing an Action

To create a new action, click **Add an Action** and select one of the action types (Figure 4-25). A window will appear containing configuration parameters specific to the selected action type. Enter a name for the action, as well as the action-dependent parameters, such as:

- Set Delay the number of seconds the action will wait to execute after the On Set event occurs
- Target Device the device undergoing the action
- Load(s) one or more loads undergoing the action
- Load State the outcome of the Load action, i.e. turn on, off or cycle
- Interval the number of seconds between successive executions of the action
- Count the number of times the action will be executed; if set to 0 (zero), the action will repeat indefinitely until it clears
- Contacts one or more notification/trap/set recipients

Next, select one or more trigger events for the action in the **On Set / On Clear** section of the window. Click the chevrons to view all events related to the object. Note that not all action types support both On Set and On Clear events. For example, "Ramp" only supports On Clear events. Within the list of objects are the default Autoprobes, as well as any user-created (custom) Autoprobes. Refer to the AutoProbe section of this document for information about creating custom AutoProbes.

New actions are enabled, by default; to disable the entry, move the slider to the left. A disabled action will not execute when its trigger event occurs. Once all parameters have been set, click the **Save** button.

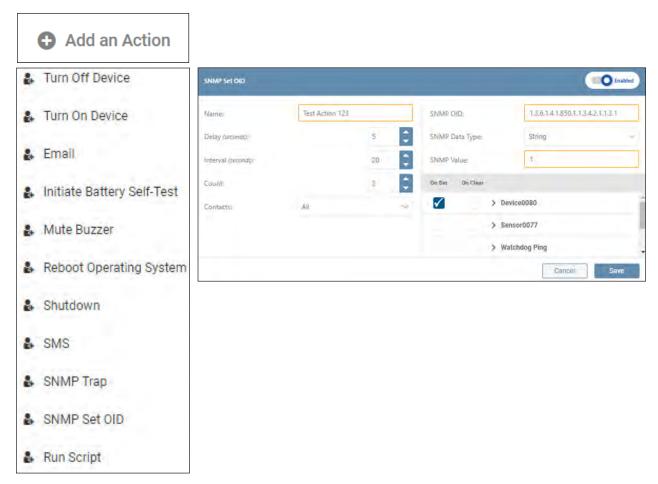


Figure 4-25: Creating an Action

Scheduling

This sub-menu item allows for the management of scheduled actions applicable to PowerAlert, the device and connected peripherals. The main page displays a summary of all Schedules (Figure 4-26). Click the pencil icon to the right of a Scheduled Action to edit its parameters. To delete one or more schedules, click the scient to the left of each line item. On doing so, the **Delete Schedule(s)** button becomes active (turns red); click the button to complete the deletion.



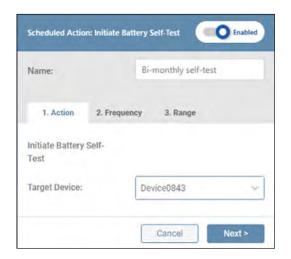
Figure 4-26: Summary of Scheduled Actions and Editing a Scheduled Action

To create a new schedule, click Add Schedule and select the action type from the menu (Figure 4-27). In the window that opens, enter a name for the action, then proceed through the configuration tabs:

- Action select the target device and other parameters, if required
- Frequency define how often the action is to be executed
- Range set the starting date and time (Run On), as well as the end criteria.
 Click the calendar icon to enter the time and date.

New schedules are enabled by default; to disable the schedule, move the slider to the left. Disabling a schedule prevents it from executing. Click the **Save** button once all edits been completed.

Newly created Scheduled Actions cannot have a Run-On time sooner than 10 minutes before the current time. Doing so will automatically add a 10- or 20-minute extension to the desired Run-On, depending on how the Scheduled Action is saved.





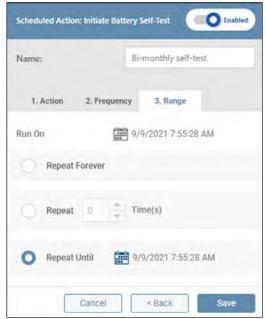


Figure 4-27: Creating a Scheduled Action

AutoProbe

This sub-menu allows for the management of AutoProbes, which automatically execute a prescribed action (e.g. cycle a load, send an email), when the device loses network communications with a specified target device. The main page displays a summary of all AutoProbes (Figure 4-28). Click the pencil icon to the right of an entry to configure its settings. To delete one or more AutoProbes, click the $\$ cion to the left of each line item. On doing so, the **Delete** button becomes active (turns red); click the button to complete the deletion.

Note: the two default AutoProbes – Watchdog Ping and Watchdog NTP – cannot be deleted. Both are linked to the Reboot PowerAlert action.



Figure 4-28: Auto-Probe Summary

To create a new AutoProbe, click **Add Probe** and select one of the available probe options: Ping, NTP or SNMP GET. A window appears, containing configuration parameters specific to the selected probe type (Figure 4-29). Pertinent AutoProbe parameters include:

- Label/Name a name for the AutoProbe entry; this field is required.
- Interval the number of minutes between successive AutoProbe tests. The valid range is 3 minutes to 1440 minutes (24 hours). The default is 3 minutes.
- Retry the number of consecutive AutoProbe tests that must fail in order to trigger the alert. The valid range is 3 to 10 retries; the default value is 3.
- Primary Address the IP Address or hostname of the primary device being probed.
- Port the communication port of the device being probed.
- Primary OID the Object Identifier target of an SNMP GET probe to the Primary Address.
- Secondary Address the IP Address or hostname of the secondary device being probed.
- Secondary OID the Object Identifier target of an SNMP GET probe to the Secondary Address.

All probes require a Primary Address; Secondary Address is optional, as is Description. If a Secondary Address/Port/OID is specified, the AutoProbe tests to both addresses must concurrently meet the trigger requirements in order for the alert to be generated. Conversely, re-establishing communication with either the Primary or Secondary Address will clear the alert condition.

New entries are enabled by default. To disable the entry, move the slider to the left. Click the **Save** button once all edits have been made. A maximum of 64 AutoProbes can be created. All enabled AutoProbes will appear in the **On Set/On Clear** section of Action edit windows, allowing them to be selected as event triggers for the Action.

New AutoProbes will automatically create new events bearing the same name.





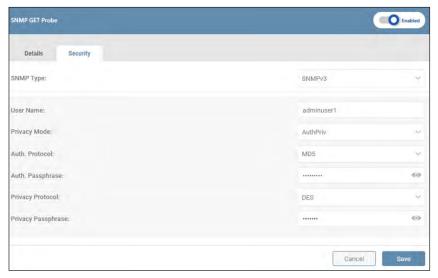


Figure 4-29: Creating an Auto-Probe

4.6 Network

The Network menu item allows for configuration of Internet, Network Services, and SMTP settings; each is covered in the sections, below.

Note: This menu item is visible only to those with Administrator privileges. Refer to the "Roles and Privileges" section for details.

4.6.1 Internet

This sub-menu allows for adding a System Contact, as well as Binding IP Addresses (Figure 4-30). In the pulldown menu, use the open field to add individual IP addresses. Use the check boxes to select which addresses are to be subject to the binding.

Note: Setting the loopback address (i.e. 127.0.0.1) as the Binding IP Address will lock access to localhost. As a result, PowerAlert Network Shutdown Agent (PANSA) will not be able to discover or communicate with PowerAlert Office. To ensure that PANSA can connect with PowerAlert Office, use a routable (not loopback) Binding IP Address.



Figure 4-30: Internet Settings

Note that saved changes may require a reboot of PowerAlert in order to take effect. If so, a warning message will appear at the top of the page. Click the **Apply Now** button to proceed with the reboot (Figure 4-31). To avoid multiple reboots, make all required network configuration changes prior to executing **Apply Now**.



Figure 4-31: "Apply Now" message

4.6.2 Services

This sub-menu allows for configuration of the network services identified below (Figure 4-32). Use the slider to the right of a service to enable/disable it. Click the **Save** button once all edits have been made.

SNMP

• SNMPv1, SNMPv2c and SNMPv3 are all enabled, by default.

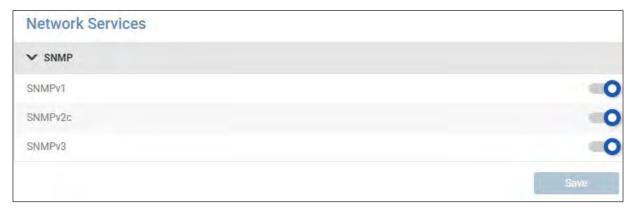


Figure 4-32: Network Services Configuration

4.6.3 SMTP

This sub-menu allows for configuration of Simple Mail Transfer Protocol (SMTP) parameters and Email format settings (Figure 4-33). Click the **Save** button once all edits have been made (Figure 4-33).

SMTP Server

- Move the slider to enable or disable SMTP; default = disabled.
- Enter the IP address, host name or FQDN of the SMTP server. Disabled by default.
- Default Port = 25.

SMTP Authentication

- Move the slider to enable or disable SMTP Authentication; default = disabled.
- If enabled, enter valid values for SMTP User Name and SMTP Password.
- Select the applicable Security Type from the pulldown menu.

Email Format Settings

- Select the desired language from the pulldown menu.
- In the "From Line" field, enter the name that will appear as the sender of notification messages.

Note: When using SMTP servers such as Office365 and Gmail/Gsuite, consider using identical text for the "From Line" and "SMTP Username" fields. While PADM supports the use of different "From Line" and "SMTP Username" values, some SMTP servers may block emails if these fields are mismatched.

• In the "Subject Line" field, enter the information that will appear in the subject line of notification messages.

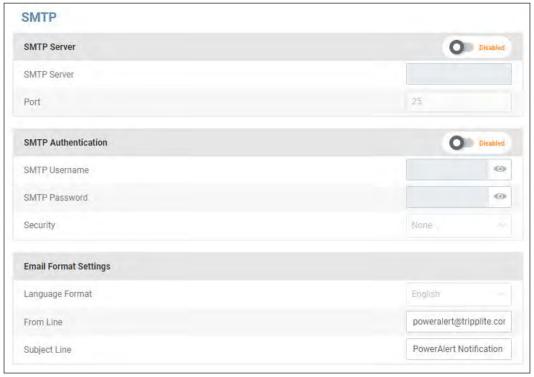


Figure 4-33: SMTP Configuration

If changes have been made, but not saved, a warning message will appear if there is an attempt to navigate away from the page (Figure 4-34).

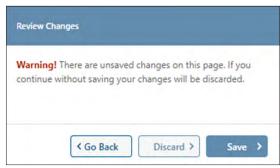


Figure 4-34: Review Changes warning

4.7 Security

The Security menu item allows for configuration of User Accounts, Role & Privileges, Security Settings and Session Management. **Note:** This menu item is visible only to those with Administrator privileges. Refer to the Roles and Privileges section for details.

4.7.1 Session Management

This sub-menu displays a list of all active users (i.e. users that are currently logged in), along with parameters pertinent to their sessions (Figure 4-35).

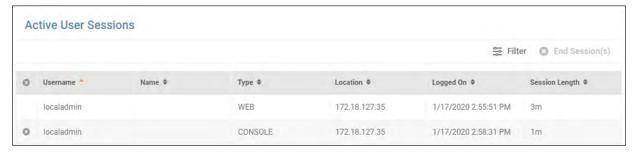


Figure 4-35: Session Management

The system supports the ability to terminate one or more sessions. Click the ② icon to the left of each line item (Figure 4-36). On doing so, the **End Session(s)** button becomes active (turns red); click the button to complete the termination.



Figure 4-36: Terminating User Sessions

4.7.2 User Accounts

This sub-menu allows for the creation and management of user accounts, comprised of Local Users, SNMP Users and Remote Servers (Figure 4-37). Click each tab to view its contents.

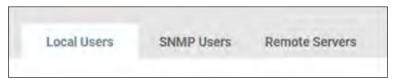


Figure 4-37: User Account tabs

LOCAL USERS. This tab displays a list of all individuals with login access to the system, as well as their status and related parameters (Figure 4-38). Three preconfigured Local Users are provided by default: *localadmin, localmanager, localguest*. Click the pencil icon to the right of an entry to open a dialog box in which its settings can be adjusted. To delete one or more Local Users, click the ⊗ icon to the left of each line item. Upon doing so, the **Delete User(s)** button becomes active (turns red); click the button to complete the deletion.

Note: the default localadmin user cannot be deleted.

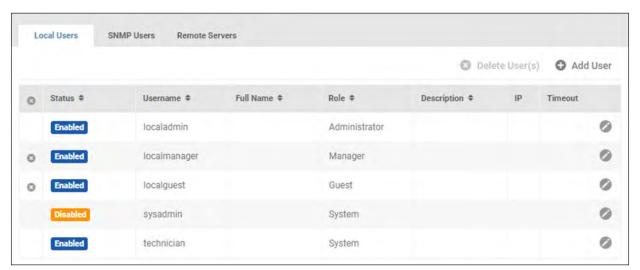


Figure 4-38: Local Users

To create a new Local User, click **Add User**. In the User tab of the dialog box that opens, enter the required information; boxes outlined in color indicate required fields (Figure 4-39). Note that the Username must be at least 6 characters long. Minimum password length is set in the **Security Settings** sub-menu.

The role of System is reserved for maintenance and provisioning purposes; it cannot be assigned to new users. See the "Roles & Privileges" section for details.

By default, new Local Users are enabled. Move the title bar slider left to disable the user. A disabled user cannot log into the system nor receive system notifications. To override Global Password Age settings – as set in **Security Settings** – move the appropriate slider to the right, exposing the two settings:

- Minimum Age (days) the number of days that the password must be used before it can be changed. The default value is 1 day.
- Maximum Age (days) the number of days after which the password must be changed. The default value is 30 days.

Next, click the Session tab to optionally adjust the following settings:

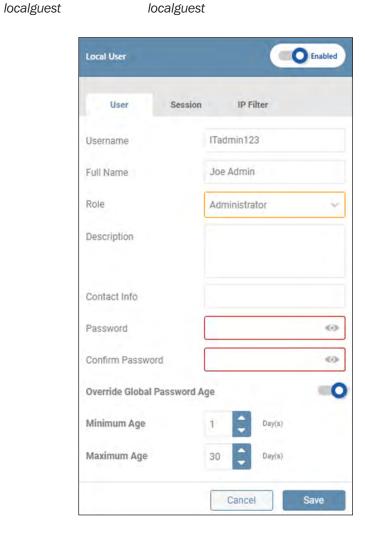
- Override Global Session Timeout the amount of time, in minutes, that the session can be active before it is automatically terminated. The default value is 360 minutes.
- Override Global Idle Timeout -- the amount of time, in minutes, that the session can be idle (inactive) before it is automatically terminated. The default value is 60 minutes.

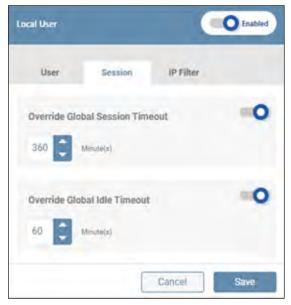
To change either setting, move the slider to the right position and adjust the time using the up and down arrows. The range of viable values is 1 to 999 minutes.

Click the *IP Filter* tab to optionally specify an IP Address (and Subnet Mask) from which the Local User must log in, i.e. login from any other network location is prohibited. Click the **Save** button once all entries/edits have been made. PowerAlert Office supports up to 64 local users.

The credentials for Local Users are as follows

User	Default Password		
localadmin	localadmin		
localmanager	localmanager		





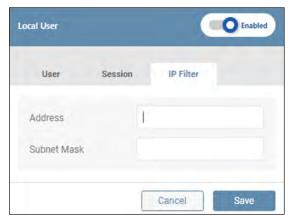


Figure 4-39: Adding a Local User

SNMP USERS. This tab displays a list of all entities having SNMP access to the system, as well as their status and related parameters (Figure 4-40). These entities are commonly used by network management systems and SNMP utilities for inbound SNMP Sets, SNMP Gets, and SNMP Walks to PowerAlert Office. For outbound SNMP Traps, Informs, or SNMP Sets from PowerAlert Office to external systems, see **Alert Contacts**. Click the pencil icon to the right of the SNMP User entry to open a dialog box in which its settings can be adjusted. Note that all SNMP Users are disabled, by default; to enable an entry, move the slider to the right (Figure 4-41). To delete one or more SNMP Users, click the contact to the left of each line item. On doing so, the **Delete User(s)** button becomes active (turns red); click the button to complete the deletion.



Figure 4-40: SNMP Users

To create a new SNMP User, click **Add User** and select one of the SNMP versions; a corresponding dialog box opens (Figure 4-41). Enter the required information, denoted by the boxes outlined in color. Note: Usernames cannot contain spaces.

For SNMPv1 and SNMPv2c Users, click the *IP Filter* tab to optionally specify the IP Address (and Subnet Mask) from which the user must log in, i.e. the user will not be able to login from any other IP Address.



When using IPv4 to allow a range of addresses, use the starting IP address of the range and the desired subnet mask. For example, to allow the range 192.168.1.0-192.168.1.255, use 192.168.1.0 (IP) and 255.255.255.0 (subnet mask). To allow only a single IPv4 address, use a /32 subnet (255.255.255.255) and the specific IP address you wish to allow. For example, to allow 10.20.30.40 ONLY, use 10.20.30.40 (IP) and 255.255.255.255.255 (mask).

By default, the user will be enabled. Move the title bar slider left to disable the user. A disabled user cannot access the system nor receive system communications. Click the **Save** button once all entries/edits have been made.





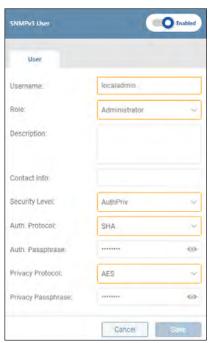


Figure 4-41: Creating an SNMP User - v1 and v3 Examples

REMOTE SERVERS. This tab displays a list, RADIUS and LDAP servers configured to communicate with the system, as well as their status and related parameters (Figure 4-42). Click the pencil icon to the right of the Remote Server entry to open a dialog box in which its settings can be adjusted. To delete one or more Remote Servers, click the ☑ icon to the left of each line item. On doing so, the **Delete Server(s)** button becomes active (turns red); click the button to complete the deletion.

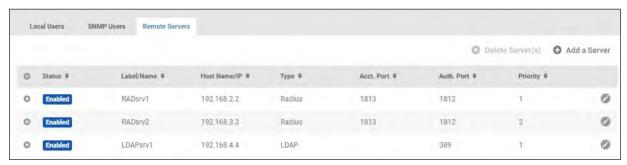


Figure 4-42: Remote Servers

To create a new Remote Server entry, click **Add a Server** (Figure 4-43) and select one of the server types: RADIUS or LDAP; a corresponding dialog box opens. Enter the required information, denoted by the boxes outlined in color.

For RADIUS Server entries, either Authentication Port or Accounting Port (or both) must be selected. The default Authentication Port value is 1812. To test authenticated communications to RADIUS and/or LDAP Server entries, click the **Test Authentication** button. A message will appear to the right of the button indicating whether or not the test was successful. By default, new entries are enabled; move the title bar slider left to disable the entry. Disabling the entry will disallow it from communicating with the system. Click the **Save** button once all entries/edits have been made.

Note: the default role of **Administrator** cannot be authorized by LDAP servers. To resolve this, create new roles with equivalent privileges (see LOCAL USERS section). LDAP users will be authorized based on group membership (the "memberof" attribute). For example, an Active Directory user in the group "UPSadmin" would be authorized to access PowerAlert Office based on the privileges assigned to the "UPSadmin" role created in PowerAlert Office.

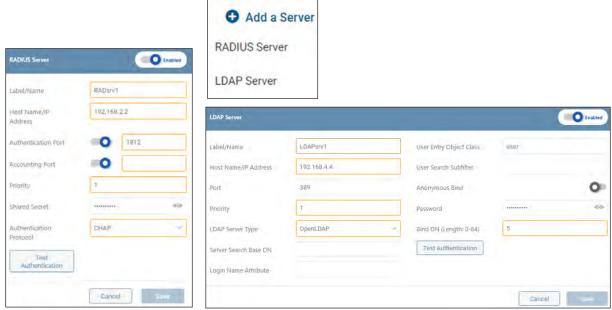


Figure 4-43: Adding a RADIUS Server and an LDAP Server

4.7.3 Roles & Privileges

This sub-menu allows for the management of default roles, as well as the creation of custom roles (Figure 4-44). In general, the default roles have the following privileges:

- Administrator read/write access to all areas of the interface.
- Manager read/write access to operational areas of the interface.
 A Manager does NOT have access to Network configuration or Security settings.
- Monitor read-only access to all areas of the interface.
- Guest read-only access to operational areas of the interface.
- System this role is reserved and cannot be assigned to users.

Refer to Appendix A for a detailed summary of the default privileges for Administrator, Manager, Monitor and Guest.

Click the pencil icon to the right of the Role entry to open a dialog box in which its settings can be adjusted.

Note: the default Administrator, Monitor and System Roles cannot be edited.



Figure 4-44: Roles & Privileges

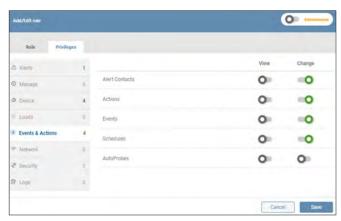
To create a customized Role, click **Add a Role.** In the dialog box that appears, enter a name for the Role and, optionally, a description (Figure 4-45). Note that names cannot contain spaces. Next, click the Privileges tab. Navigate through the left menu to view applicable privileges; Privileges will vary based on device type and model. Use the sliders to assign privileges to the role. By default, an Administrator has all Privileges; at the top of the dialog box, move the **Administrator** slider to the right in order to assign all Privileges to the role. Click the **Save** button once all entries/edits have been made. To delete one or custom Roles, click the con to the left of each line item. On doing so, the **Delete Role(s)** button becomes active (turns red); click the button to complete the deletion.

Note: The default Roles cannot be deleted.



Figure 4-45: Adding a Role





4.7.4 Security Settings

This sub-menu allows for configuration of Global Security Settings (Figure 4-46).

- Global Session Timeout the amount of time, in minutes, that sessions can be active, after which they are automatically terminated. The default value is 360 minutes.
- Global Idle Timeout -- the amount of time, in minutes, that sessions can be idle (inactive) after which they are automatically terminated. The default value is 60 minutes.

Use the up and down arrows to adjust the settings. The range of viable values is 1 to 999 minutes.

To apply and modify Password Age Requirements, move the appropriate slider to the right.

- Minimum Age the number of days that the password must be used before it can be changed. The default value is 7 days. The viable range is 0 to 999 days.
- Maximum Age the number of days after which the password must be changed. The default value is 60 days. The viable range is 1 to 999 days.

Use the up and down arrows to adjust the settings.

Note: The Maximum Age must be larger than the Minimum Age.

The default minimum number of characters required of all passwords is 8. Use the up and down arrows to adjust this value. Optionally select whether passwords must contain a minimum of one capital letter, one number and/or one special character.

Changes to password policies will take effect the next time the password is changed.



Figure 4-46: Setting Timeouts and Password Requirements

To set the preferred Authorization and Accounting Schemes, select the desired setting from the respective pulldown menus (Figure 4-47). Note that "Local Accounting Only" will be the only available choice if no Remote Servers are configured (see User Accounts).

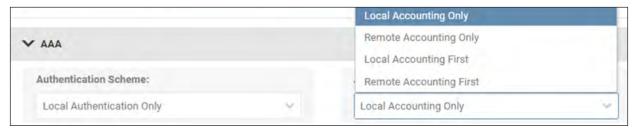


Figure 4-47: AAA Settings

Once all Security Settings have been set, click the Save button.

4.8 Logs

The Logs menu item allows for configuration, viewing and export of the Event, Data and Accounting Logs, as well as configuration of the Application Log (Figure 4-48).

Note: All logs are exported as .gz files. To view the log information, the .gz file must first be decompressed using a program like 7zip or WinRAR® (Windows) or gzip (Linux/macOS).



Figure 4-48: Logs Menu Item

4.8.1 Accounting Log

The Accounting Log documents events related to access of the PowerAlert interface, displaying the most recent events at the top of the log (Figure 4-49). Click **Filter** to customize the information displayed in the log. To perform an on-demand log export, click the **Export** button; a window will appear in which the file format (CSV or XML) and export destination can be selected. Select the **Download** option to locally export the log. On selecting the **Email** option, a table of recipients will appear, one of which can be selected. Refer to the **Alert Contacts** section of the **Events & Actions** menu item for creating email recipients.

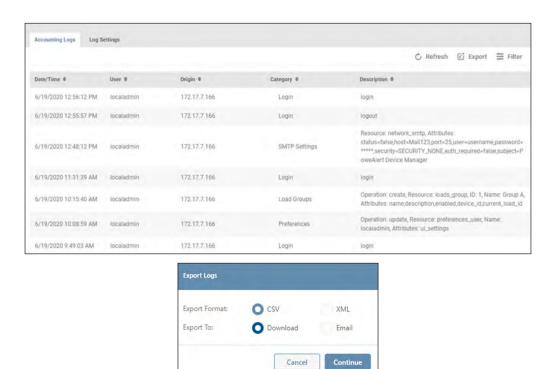


Figure 4-49: Accounting Log Summary and Export

To configure log size and automatic log exporting, click the Log Settings tab (Figure 4-50). The maximum number of log entries is 10,000; this is also the default value. The minimum log size is 1,000 entries. Upon reaching the maximum log size, entries are purged in a first-in-first-out manner.

Click Save once all edits have been made.



Figure 4-50: Accounting Log Settings

4.8.2 Application Log

The Application Log is not locally displayed. To view it, click the **Export Application Log Now** button. This will generate a syslog.txt file that can be retrieved from the Downloads folder. Use a standard text editor application to view the exported file (Figure 4-51).



Figure 4-51: Application Log

To set the minimum severity level at which items are to be recorded, click the Minimum Severity Setting menu and select the desired level. For instance, a setting of 'Critical' will also record the Alert and Emergency items (Figure 4-52).

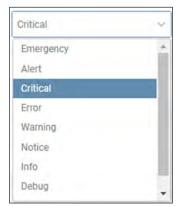


Figure 4-52: Minimum Severity Setting

4.8.3 Data Log

The Data Log provides two views: Time-Series and Historical Roll-Up. The Time Series view displays the device's metrics taken at 1-minute increments (default setting), with the most recent readings appearing at the top of the log (Figure 4-53).

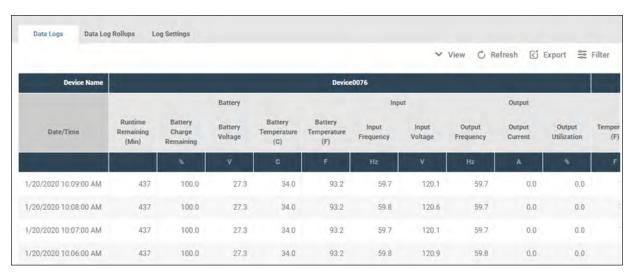


Figure 4-53: Data Log, Time Series View.

Click the **View** button to select which data variable are to be displayed (Figure 4-54). Click **Filter** to refine the time period of data log entries to be displayed; click the calendar icon to establish the start and end time/date. To perform an on-demand log export, click the **Export** button; a window will appear in which the export destination can be selected. Select the Download option to locally export the log. On selecting the Email option, a table of recipients will appear, one of which can be selected. Refer to the **Alert Contacts** section of the **Events & Actions** menu item for details on creating email recipients. Data logs can be exported only in CSV format.





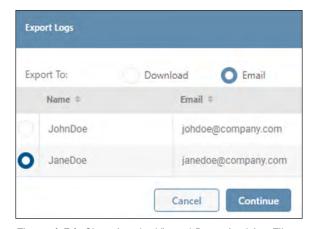


Figure 4-54: Changing the Viewed Data, Applying Filters and Configuring On-Demand Log Export

The Historical Roll-Up view displays a summary view of the device's metrics at the following increments: hourly, daily, weekly, monthly and yearly (Figure 4-55).

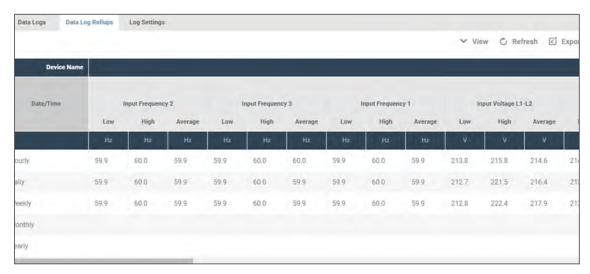


Figure 4-55: Data Log, Roll-up View

To configure log recording parameters and automatic log exporting, click the Log Settings tab. Set the frequency at which data is collected by adjusting the interval; the supported range is 10 to 60 seconds, in increments of 10 seconds. A message will appear showing the estimated amount of data (in days) that will be recorded, based on the selected interval (Figure 4-56).

Based on the time intervals selected 6 day(s) of Data Logs will be saved.

Note: The Data Log time period may be lengthened by reducing the number of variables and/or increasing the interval between saves.

Figure 4-56: Data Log Settings Message

By default, all metrics of the device and all connected sensors are selected. Click the pencil icon and use the pulldown menus to select which variables are to be logged (Figure 4-57).

Note: Changing the logging interval will purge the Data Log prior to logging records at the new interval. If desired, export the Data Log prior to applying the interval change.

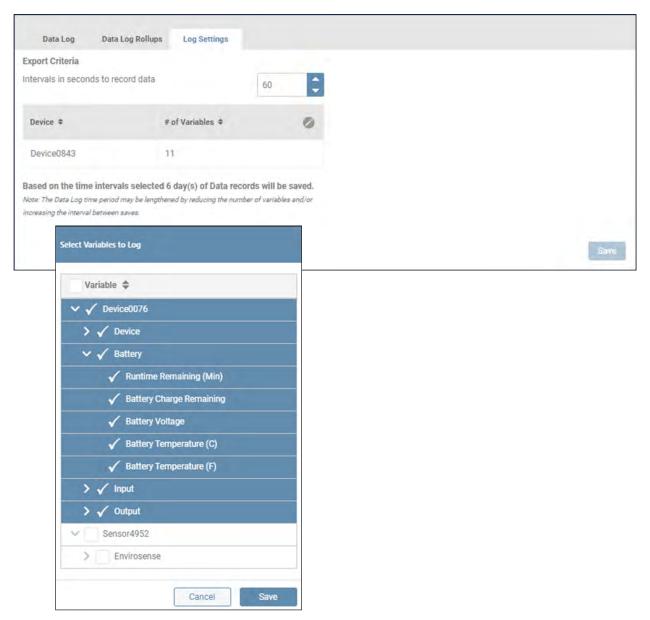


Figure 4-57: Data Log Settings

4.8.4 Event Log

The Event Log tracks device and system-related events, displaying the most recent events at the top of the log (Figure 4-58). Click **Filter** to customize the information displayed in the log. To perform an on-demand log export, click the **Export** button; a window will appear in which file format (CSV or XML) and export destination can be selected. Select the **Download** option to locally export the log. On selecting the **Email** option, a table of recipients will appear, one of which can be selected. Refer to **Alert Contacts** in section **4.5 Events & Actions** for details on creating email recipients. To purge the log after exporting, check the appropriate box.

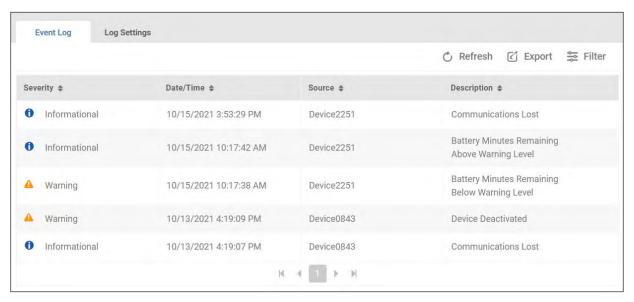


Figure 4-58: Event Log

To configure log recording parameters, click the **Log Settings** tab (Figure 4-59). The maximum number of log entries is 10,000; this is also the default value. The minimum log size is 1,000 entries. Upon reaching the maximum log size, entries will be purged in a first-in-first-out manner. Click the **Save** button once all edits have been made.



Figure 4-59: Event Log Settings

4.8.5 Syslog

This sub-menu allows for creation and management of Syslog server entries. Placing the cursor over the information icon in the "Logs" column displays the log types selected for the Syslog server entry. Click the pencil icon to the right of the entry to open a dialog box in which its settings can be adjusted. To delete one or more Syslog Server entries, click the ② icon to the left of each line item. Upon doing so, the **Delete Syslog Server(s)** button becomes active (turns red); click the button to complete the deletion.

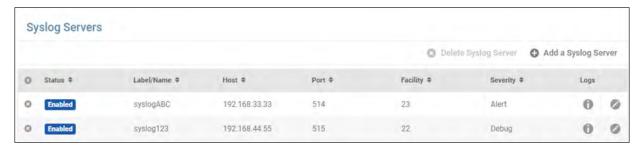
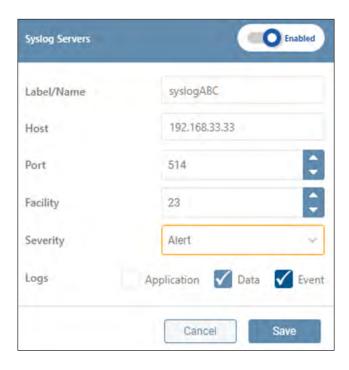


Figure 4-60: Syslog Servers

To add a Syslog entry, click **Add Syslog Server**. In the dialog box that opens, enter the required information: Label/Name, Host, Port, Facility (13 and 15 are reserved for system use) and Severity. Note that the selected severity level determines the minimum level at which items are to be recorded. For instance, a setting of 'Critical' will also record the Alert and Emergency items. For the "Logs" item, set which log type records are to be sent to the Syslog server entry. By default, new entries are enabled; move the title bar slider left to disable the entry. Syslog messages will not be sent to a disabled entry. Click the **Save** button once all edits have been made.



5. Technical Support

For questions or information related to PowerAlert software, please contact Tripp Lite Tech Support:

Phone: 773.869.1234 (7am - 6pm CST).

Web: tripplite.com/support

Note: Online Product Support and Tripp Lite Technical Support contact information are also available via the Help icon in the PowerAlert Top Menu.

Appendix A – Features by Package

PowerAlert Software		PowerAlert Package		
Category	Feature	Office Home		Medical
ACTIONS	Device Shutdown	Yes	Yes	Yes
	OS Shutdown & Restart	Yes	Yes	Yes
	Script Execution	Yes		
	Manage Scheduled Actions	Yes		
	Manage AutoProbes	Yes		
ALERTS	Alert Rollup	Yes	Yes	Yes
	Alert Acknowledgment	Yes		Yes
CONFIGURATION	Remote Configuration	Yes	Yes	Yes
	Mass Configuration Utility	Yes	Yes	Yes
	Manage Battery Packs	Yes		
EVENTS	Display Events	Yes	Yes	Yes
	Edit Events	Yes		Yes
	Event Actions	Yes		
LOADS	Display Individual Loads	Yes	Yes	Yes
	Edit Load Attributes	Yes		Yes
	Display Status	Yes	Yes	Yes
	Display Metrics	Yes		Yes
	Load Control	Yes	Yes	
	Manage Load Groups	Yes		
LOGGING	Accounting Log	Yes		Yes
	Application Log	Yes	Yes	Yes
	Data Log	Yes		Yes
	Event Log	Yes	Yes	Yes
	Manage Syslog Servers	Yes		
MAINTENANCE	Version Check	Yes	Yes	Yes
	Update and Downgrade	Yes	Yes	Yes
NOTIFICATIONS	Email	Yes	Yes	
	SMS	Yes		
	SNMP	Yes		
PROTOCOLS	HTTP & HTTPS	Yes	Yes	Yes
	SNMP	Yes		
SECURITY	Authorization, Accounting & Authentication	Yes		
	Password Policies	Yes		
	Manage Users	Yes		Yes
	Manage Roles & Privileges	Yes		
	ManageUser Sessions	Yes		
	Idle & Session Timeouts	Yes	Yes	Yes
OTHER	Watchdog Compatibility	Yes	Yes	Yes
	IP Binding	Yes	Yes	Yes
	System Tray	Yes	Yes	Yes
	SNMP Access	Yes		

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