

Mitsubishi DiamondLink

User Manual

Version 4.0.3

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1 What is DiamondLink?

DiamondLink is a UPS power monitoring and system shutdown software application. DiamondLink monitors the UPS through a communications cable attached to a serial port on the computer and the communications interface on the UPS. This connection enables the software to monitor the status of the UPS and to perform a graceful operating system shutdown if required.

Through a web browser interface you can view the UPS status, configure shutdown timers and event actions, view event history and graph UPS parameters.

You can configure the application to perform appropriate actions when an event is detected. The user configurable actions include: broadcasting, e-mail, command file execution and operating system shutdown. For example, if utility power fails, you may wish to broadcast a warning message, send an email and shut down your computer after a configured time delay. You can set the delays and intervals for any of these actions.

DiamondLink consists of two components. The **DiamondLink server** communicates with the UPS and performs all event management. The **DiamondLink remote shutdown agent** runs on one or more remote computers and communicates with the DiamondLink server to allow remote shutdown of computers powered by the UPS.

The entire suite of management products from Mitsubishi includes:

- **MultiLink** – monitor up to one thousand devices including UPSs, PDUs, rack and environmental monitors and IP cameras
- **DiamondLink** – UPS management and system shutdown software
- **NetCom** – SNMP/Web UPS management card

2 Who Do I Contact For Technical Support?

For help on configuring and using DiamondLink or any Mitsubishi UPS product, contact the Technical Support group at:

Phone	724-772-2555
Fax	724-778-3146
Email	DiamondLink@meppi.com
Web	http://www.meppi.com

3 What are the System Requirements for DiamondLink?

Check the Mitsubishi web site (<http://www.meppi.com>) for the latest list of system requirements.

3.1 Operating System Requirements

The DiamondLink server will run on the following operating systems:

- Windows 2000
- Windows 2003
- Windows XP
- Linux Red Hat 7.3, 8.0
- Red Hat Enterprise 2.1 ES (update 5), 3.0 ES (update 4)
- SLES 9.0

The DiamondLink remote shutdown agent will run on the following operating systems:

- Windows 2000
- Windows 2003
- Windows XP
- Linux Red Hat 7.3, 8.0
- Red Hat Enterprise 2.1 ES (update 5), 3.0 ES (update 4)
- SLES 9.0
- HP-UX 11.0, 11i v1, 11i v2
- Sun Solaris 8
- Novell Netware 6
- IBM AIX 4.3, 5.2
- Mac OS X

3.2 Web Browser Requirements

Supported web browsers include:

- Internet Explorer 5.0 or higher
- Macromedia Flash 6.0 or higher
- Mozilla Firefox 2.0 or higher

4 How Do I Install DiamondLink?

4.1 Installing the DiamondLink Server

The DiamondLink Server should be installed on the computer that is going to be communicating with the UPS. One end of the communications cable should be attached to a serial port on the computer and the other end to the communications interface on the UPS.

4.1.1 Windows

Perform the following steps to install the server on Windows:

1. Insert the CD. The installation will start automatically. Reply to the standard prompts.
2. During the installation you will be asked which protocol to use for your UPS model. Select **Mitsubishi** if your UPS model is a 2033A or 9700. Select **SEC** for all other UPS models.
3. When the Configuration screen appears, you will have the option to choose whether or not you want to use SSL (secure socket layer) web security. The use of SSL may slow your web access slightly but provides a layer of security above the username/password protection already provided by the application. You can also choose a different web port from the default (the defaults are 80 for a standard web port and 443 for the secure web port). In most cases, the default web port is fine. If you are already running a web server on the computer, you will want to choose a different web port.
4. When the installation has finished, you may be prompted to restart your computer.

Special Requirements for Windows XP Service Pack 2

When Windows XP Service Pack 2 is installed on a computer it will turn on the personal firewall. Follow these steps to open up the web port for DiamondLink:

- Go to **Start Menu --> Control Panel**.
- Go to **Network Connections** and right click on the connection that is being used.
- Click on **Properties** and click the **Advanced** tab in the Properties dialogue.
- Press the **Settings...** button to bring up the Firewall dialogue.
- Go to the **Exceptions** tab and click the **Add Port** button.
- For **Name** enter **DiamondLink Web Port** and for **Port Number** use **80** (or the port that was entered when the application was installed) and press the **OK** button.
- You should now be able to access the DiamondLink web port through the XP Firewall.

If you will be using DiamondLink to shut down remote systems or to communicate with MultiLink Enterprise software, you will also need to open up the server communications port. Follow these steps to open up the necessary ports for the DiamondLink Remote Agent to work properly.

- Go to **Start Menu --> Control Panel**.
- Go to **Network Connections** and right click on the connection that is being used.
- Click on **Properties** and click the **Advanced** tab in the Properties dialogue.
- Press the **Settings...** button to bring up the Firewall dialogue.
- Go to the **Exceptions** tab and click the **Add Port** button.
- For **Name** enter **DiamondLink Remote** and for **Port Number** use **3573** and press the **OK** button.
- You should now be able to access the DiamondLink communications port through the XP Firewall.

IMPORTANT:

You can also completely turn off the Firewall instead of adding these ports but Microsoft does not recommend doing this. If you choose to do this, choose the **Off** option from the **General** tab.

4.1.2 Linux

Perform the following steps to install the server on Linux:

1. Insert the CD.
2. Mount the CD.
3. Browse to the location of the Linux Management Server and run Setup.
4. During the installation you will be asked which protocol to use for your UPS model. Select **Mitsubishi** if your UPS model is a 2033A or 9700. Select **SEC** for all other UPS models.
5. You will also be able to choose whether or not you want to use SSL (secure socket layer) web security. The use of SSL may slow your web access slightly but provides a layer of security above the username/password protection already provided by the application. You can also choose a different web port from the default (the defaults are 80 for a standard web port and 443 for the secure web port). In most cases, the default web port is fine. If you are already running a web server on the computer, you will want to choose a different web port.

4.2 Installing the DiamondLink Remote Shutdown Agent

The DiamondLink Remote Shutdown Agent should be installed on a computer that is being powered by a UPS but is not communicating to it through the communications cable. Installing this software will allow the server to shut down remote computers when events occur on the UPS.

4.2.1 Windows

Perform the following steps to install the remote shutdown agent on Windows:

1. Insert the CD.
2. Browse to the location on the CD for the Windows Agent.
3. Run the **Setup** file by double-clicking on it.
4. Reply to the standard installation prompts.
5. As an added security option, the Remote Shutdown Agent can be configured to only shut down when it receives a shutdown message from a particular system. From the remote shutdown agent configuration screen, enter the IP address of the machine running the DiamondLink Server software. Leave the field blank to allow any DiamondLink Server to connect to the remote shutdown agent.
6. The shutdown agent can be configured to run in redundant mode. In redundant mode, the computer will only be shut down when all configured systems have sent a shutdown message. To set up the remote shutdown agent to be managed by redundant systems click the radio button labeled **This agent will be managed by redundant servers**.

7. If one or both of the servers managing the remote shutdown agent is a Netcom, check the **Netcom** checkbox by its IP address.

4.2.2 Linux

Perform the following steps to install the remote shutdown agent on Linux:

1. Insert the CD.
2. Mount the CD.
3. Browse to the location of the Linux Management Server and run SetupRA.
4. During the installation you will be asked if the remote shutdown agent will be managed by redundant management servers.
 - If you do not want to have a redundant setup answer 'n' at this prompt. The installation will then ask for the IP address of the managing server. Either enter the specific IP address of the management server or enter a '*' to allow any Management Server to connect to it. After entering the IP address, you will then be asked if the managing server is a Netcom. Enter 'y' if the managing server is a Netcom or 'n' if not.
 - If you do want to have a redundant setup then answer 'y' at this prompt. The installation will then ask for the IP address of the first managing server. Either enter the specific IP address of the management server or enter a '*' to allow any Management Server to connect to it. After entering the IP address for the first server, you will then be asked if it is a Netcom. Enter 'y' if the managing server is a Netcom or 'n' if not. You will then be asked the same questions about the redundant management server.

4.2.3 HP-UX

Perform the following steps to install the remote shutdown agent on HP-UX:

1. Insert the CD.
2. Mount the CD.
3. Browse to the location of the HP-UX Management Server and run Install.
4. During the installation you will be asked if the remote shutdown agent will be managed by redundant management servers.
 - If you do not want to have a redundant setup answer 'n' at this prompt. The installation will then ask for the IP address of the managing server. Either enter the specific IP address of the management server or enter a '*' to allow any Management Server to connect to it. After entering the IP address, you will then be asked if the managing server is a Netcom. Enter 'y' if the managing server is a Netcom or 'n' if not.
 - If you do want to have a redundant setup then answer 'y' at this prompt. The installation will then ask for the IP address of the first managing server. Either enter the specific IP address of the management server or enter a '*' to allow any Management Server to connect to it. After entering the IP address for the first server, you will then be asked if it is a Netcom. Enter 'y' if the managing server is a Netcom or 'n' if not. You will then be asked the same questions about the redundant management server.

4.2.4 Solaris

Perform the following steps to install the remote shutdown agent on Solaris:

1. Insert the CD.
2. Mount the CD.
3. Browse to the location of the Linux Management Server and run install.
4. During the installation you will be asked if the remote shutdown agent will be managed by redundant management servers.
 - If you do not want to have a redundant setup answer 'n' at this prompt. The installation will then ask for the IP address of the managing server. Either enter the specific IP address of the management server or enter a '*' to allow any Management Server to

connect to it. After entering the IP address, you will then be asked if the managing server is a Netcom. Enter 'y' if the managing server is a Netcom or 'n' if not.

- If you do want to have a redundant setup then answer 'y' at this prompt. The installation will then ask for the IP address of the first managing server. Either enter the specific IP address of the management server or enter a '*' to allow any Management Server to connect to it. After entering the IP address for the first server, you will then be asked if it is a Netcom. Enter 'y' if the managing server is a Netcom or 'n' if not. You will then be asked the same questions about the redundant management server.

4.2.5 AIX

Perform the following steps to install the remote shutdown agent on AIX:

1. Insert the CD.
2. Mount the CD.
3. Browse to the location of the Linux Management Server and run install.
4. During the installation you will be asked if the remote shutdown agent will be managed by redundant management servers.
 - If you do not want to have a redundant setup answer 'n' at this prompt. The installation will then ask for the IP address of the managing server. Either enter the specific IP address of the management server or enter a '*' to allow any Management Server to connect to it. After entering the IP address, you will then be asked if the managing server is a Netcom. Enter 'y' if the managing server is a Netcom or 'n' if not.
 - If you do want to have a redundant setup then answer 'y' at this prompt. The installation will then ask for the IP address of the first managing server. Either enter the specific IP address of the management server or enter a '*' to allow any Management Server to connect to it. After entering the IP address for the first server, you will then be asked if it is a Netcom. Enter 'y' if the managing server is a Netcom or 'n' if not. You will then be asked the same questions about the redundant management server.

4.2.6 Netware

Perform the following steps to install the remote shutdown agent on Netware:

1. Insert CD into the CD-ROM drive of the Netware Client computer.
2. From the Agent\Netware subdirectory of the CD, copy the contents into a directory on the NetWare server.
3. From the NetWare system console, load the configuration module (PMCONFIG.NLM) using the default path. For example, if the files were copied into a folder called Mitsubishi on the SYS: volume, the module would be loaded as follows:

SYS:Mitsubishi/PMCONFIG
4. After accepting the License Agreement, you will be asked if your remote shutdown agent will be managed by redundant Management Servers.
 - a. If you do not want to have a redundant setup then answer 'n' at this prompt. The installation will then ask for the IP address of the managing server. Either enter the specific IP address or enter a '*' to allow any Management Server to connect to it. After entering the IP address, you will then be asked if the managing server is a Netcom. Enter 'y' if the managing server is a Netcom or 'n' if not.
 - b. If you do want to have a redundant setup then answer 'y' at this prompt. The installation will then ask for the IP address of the first managing server. Either enter the specific IP address or enter a '*' to allow any Management Server to connect to it. After entering the IP address for the first server, you will then be asked if it is a Netcom. Enter 'y' if the managing server is a Netcom or 'n' if not. You will then be asked the same questions about the second management server.

4.2.7 Mac OS X

Perform the following steps to install the remote shutdown agent on Mac OS X:

1. Copy the DiamondLinkRAX.X-OSX.tar.gz file to your hard drive. Browse to its location with the Mac file manager.
2. Click the icon for the DiamondLinkRAX.X-OSX.tar.gz file.
3. A new folder named DiamondLinkRAX.X-OSX will be created in the same location as the DiamondLinkRAX.X-OSX.tar.gz file.
4. Browse into the new folder.
5. Click on the DiamondLinkRAX.X-OSX.pkg file.
6. Follow the installation prompts to install the software.
7. Following the completion of the installation, the files will be installed but the service will need to be started.

Perform the following steps to configure and start the remote shutdown agent:

Starting and Configuring the Remote Agent Service:

1. Open a command terminal.
2. While logged in as root, run the following command: **/etc/DevMan setup**
3. The script will now ask you questions about configuring the software.
4. The setup will ask you to specify the IP address of your Management Server. Leave this address blank if you want to allow any Management Server to manage the shutdown agent.
5. The DevMan script has other useful options. Run it without the **setup** argument to see the Usage line.

Perform the following steps to uninstall the remote shutdown agent:

1. Open a command terminal.
2. Go to the location where you unzipped the DiamondLinkRAX.X-OSX.tar.gz file during the installation.
3. Go into the DiamondLinkRAX.X-OSX folder that was created.
4. Run the following command: **./Uninstall**

5 How Do I Use DiamondLink?

5.1 Starting DiamondLink

To access the user interface, use your Internet browser to connect to the computer on which you installed the software. DiamondLink has its own web server. It is important to remember which port you selected when you installed the software. By default, DiamondLink uses port 80 (the standard web port) or port 443 (the standard secure web port).

- Connecting to DiamondLink using non-secure web (default port 80)
 - `http://localhost` - for local computer
 - `http://hostname`
 - `http://ip_address`
- Connecting to DiamondLink using non-secure web (port 8888 selected at installation)
 - `http://localhost:8888` - for local computer
 - `http://hostname:8888`
 - `http://ip_address:8888`

- Connecting to DiamondLink using secure web (default port 443)
 - <https://localhost> - for local computer
 - <https://hostname>
 - https://ip_address
- Connecting to DiamondLink using secure web (port 4444 selected at installation)
 - <https://localhost:4444> - for local computer
 - <https://hostname:4444>
 - https://ip_address:4444

The default username is **admin** and the default password is **admin**.

Note: You can also connect to a local Windows server using one of the following options:

- Double-click on the task bar battery icon
- Right-click on the task bar battery icon and select **Connect** from the menu

5.2 DiamondLink User Interface Components

The DiamondLink user interface has four main components:

- [Home](#)
- [Logs](#)
- [Setup](#)
- [Help](#)

Each component can be accessed by clicking on the appropriate tab.

5.3 Home

The **Home** tab has the following menu items:

- [Overview](#)
- [Alarms](#)
- [Identification](#)
- [Parameters](#)
- [Attached Devices](#)
- [Manual Control](#)
- [Power Fail](#)
- [Shutdown Events](#)
- [Event Settings](#)
- [Settings](#)

5.3.1 Overview

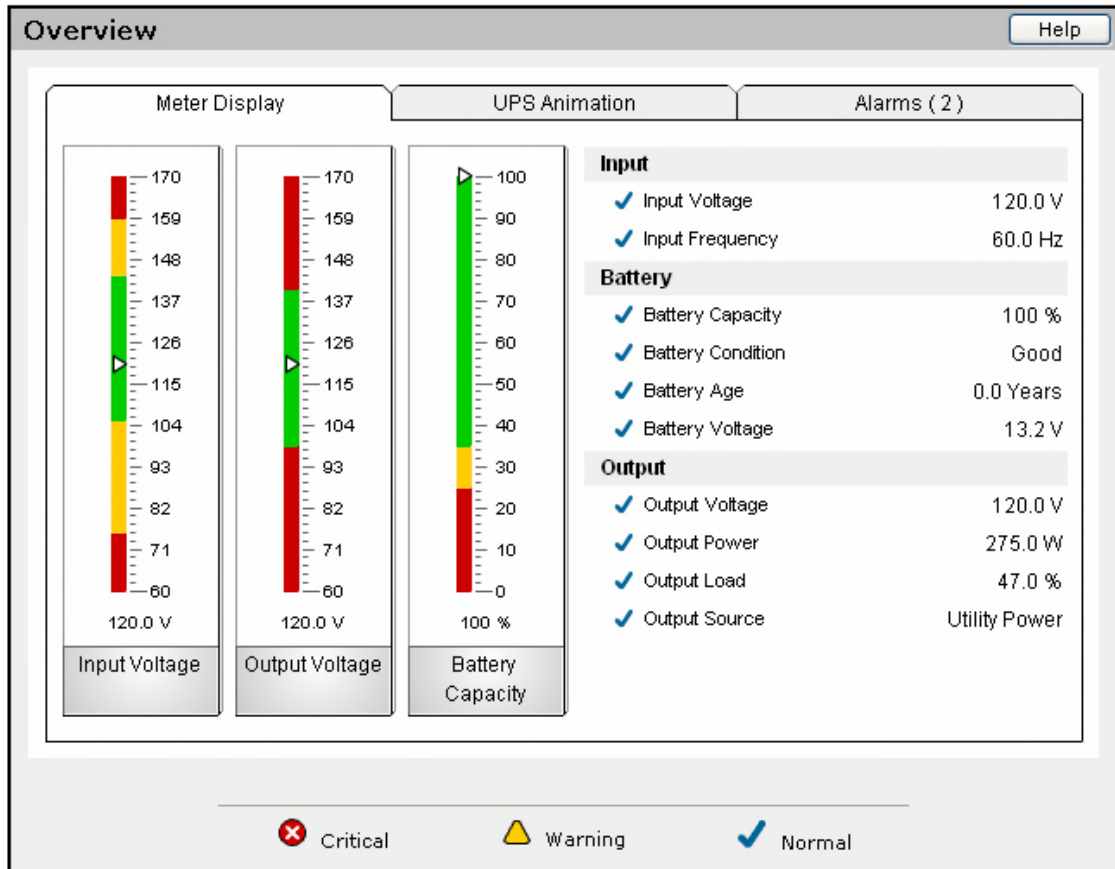
The **Overview** page provides three different views of the UPS status:

- Meter Display
- UPS Animation
- Alarms

Each view can be selected by clicking the appropriate tab.

The **Meter Display** tab shows current meter readings from the UPS. The meters show nominal value ranges in green, warning values in yellow and critical values in red.

Note: the parameters displayed will vary according to the UPS model.



The **UPS Animation** tab shows an animated display of the current power source for the UPS. This display will change based upon whether the UPS is operating on utility power, bypass or battery.

Note: the parameters displayed will vary according to the UPS model.

The screenshot shows a software window titled "Overview" with a "Help" button in the top right corner. The window is divided into three tabs: "Meter Display", "UPS Animation", and "Alarms (2)". The "UPS Animation" tab is active, showing a green background with a diagram of the UPS power flow. The diagram is labeled "On Utility" at the top and "Battery OK" at the bottom. It shows three input lines with sine wave icons and arrows pointing right, and a battery icon at the bottom. To the right of the diagram is a list of parameters:

Input	
✓ Input Voltage	120.0 V
✓ Input Frequency	60.0 Hz

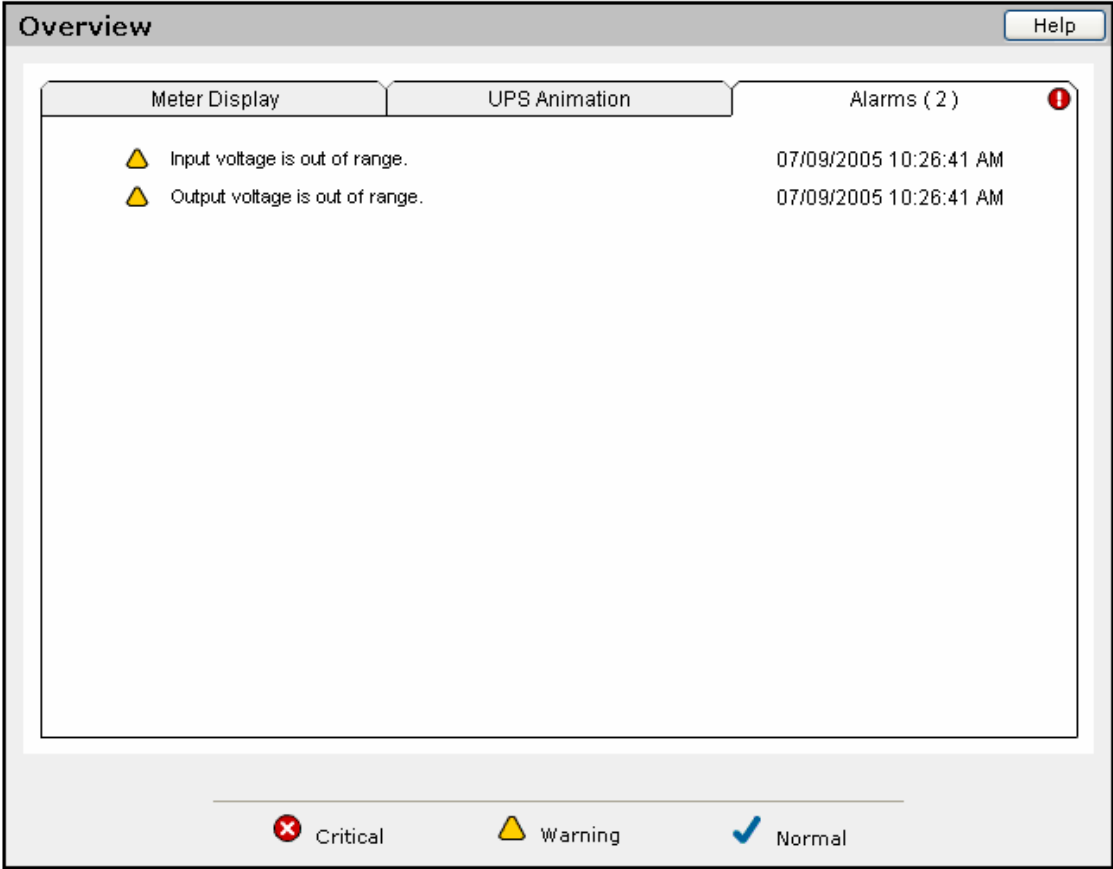
Battery	
✓ Battery Capacity	100 %
✓ Battery Condition	Good
✓ Battery Age	0.0 Years
✓ Battery Voltage	13.2 V

Output	
✓ Output Voltage	120.0 V
✓ Output Power	275.0 W
✓ Output Load	47.0 %
✓ Output Source	Utility Power

At the bottom of the window, there is a legend for alarm status: a red 'X' icon for "Critical", a yellow triangle icon for "Warning", and a blue checkmark icon for "Normal".

The **Alarms** tab will display a list of current alarms. The **Alarms** tab header will display the number of active alarms.

Note: the alarms displayed will vary according to the UPS model.

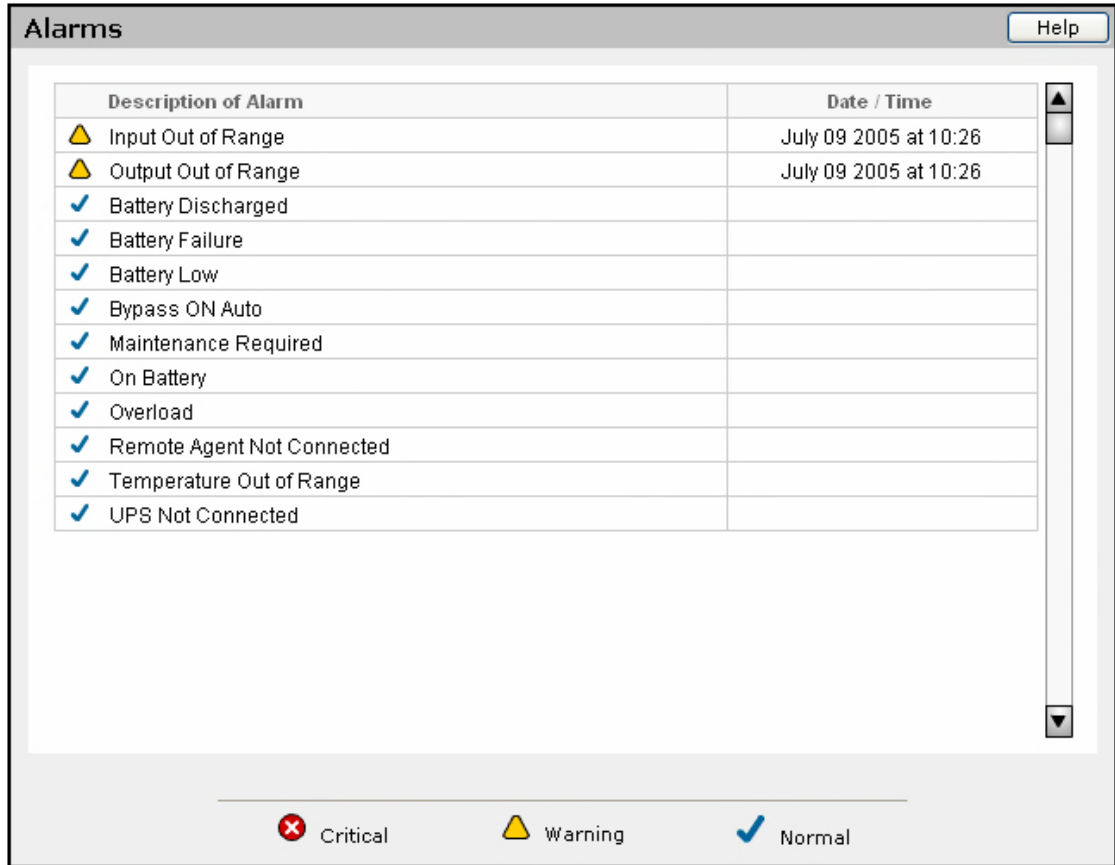


5.3.2 Alarms

The **Alarms** page displays the current state of the alarms supported by the UPS. If an alarm is active the start date and time will be displayed in the right hand column. The severity of the alarm (critical, warning, or normal) will also be displayed as an icon in front of each alarm.




Click on any alarm text to display more information about the alarm condition.

Note: the alarms displayed will vary according to the UPS model.



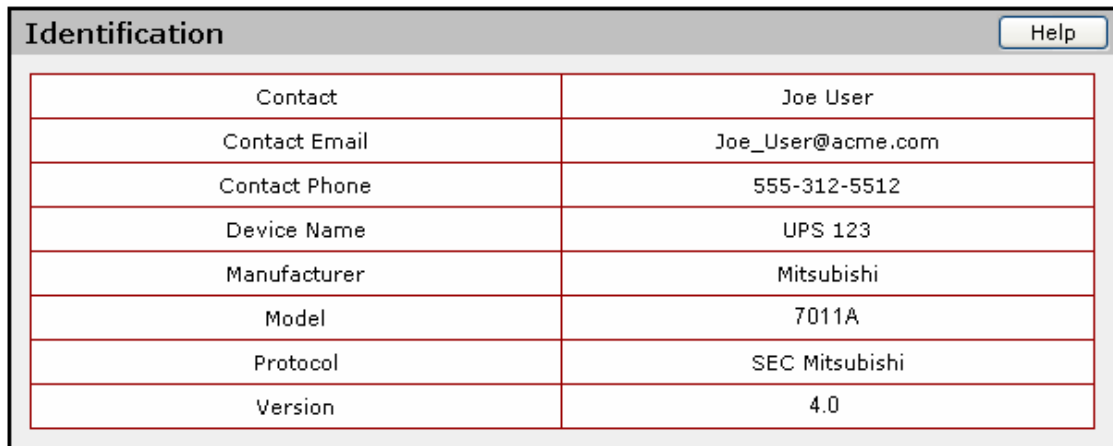
The screenshot shows a window titled "Alarms" with a "Help" button in the top right corner. The main content is a table with two columns: "Description of Alarm" and "Date / Time". The table lists 13 alarm conditions. The first two, "Input Out of Range" and "Output Out of Range", are marked with a yellow warning triangle and have a date and time of "July 09 2005 at 10:26". The remaining 11 conditions are marked with a blue checkmark, indicating they are normal. A legend at the bottom of the window shows three severity levels: Critical (red X), Warning (yellow triangle), and Normal (blue checkmark).

Description of Alarm	Date / Time
⚠ Input Out of Range	July 09 2005 at 10:26
⚠ Output Out of Range	July 09 2005 at 10:26
✓ Battery Discharged	
✓ Battery Failure	
✓ Battery Low	
✓ Bypass ON Auto	
✓ Maintenance Required	
✓ On Battery	
✓ Overload	
✓ Remote Agent Not Connected	
✓ Temperature Out of Range	
✓ UPS Not Connected	

Legend:  Critical  Warning  Normal

5.3.3 Identification

The **Identification** page displays UPS model and user contact information. This information can be modified on the [Settings](#) page.

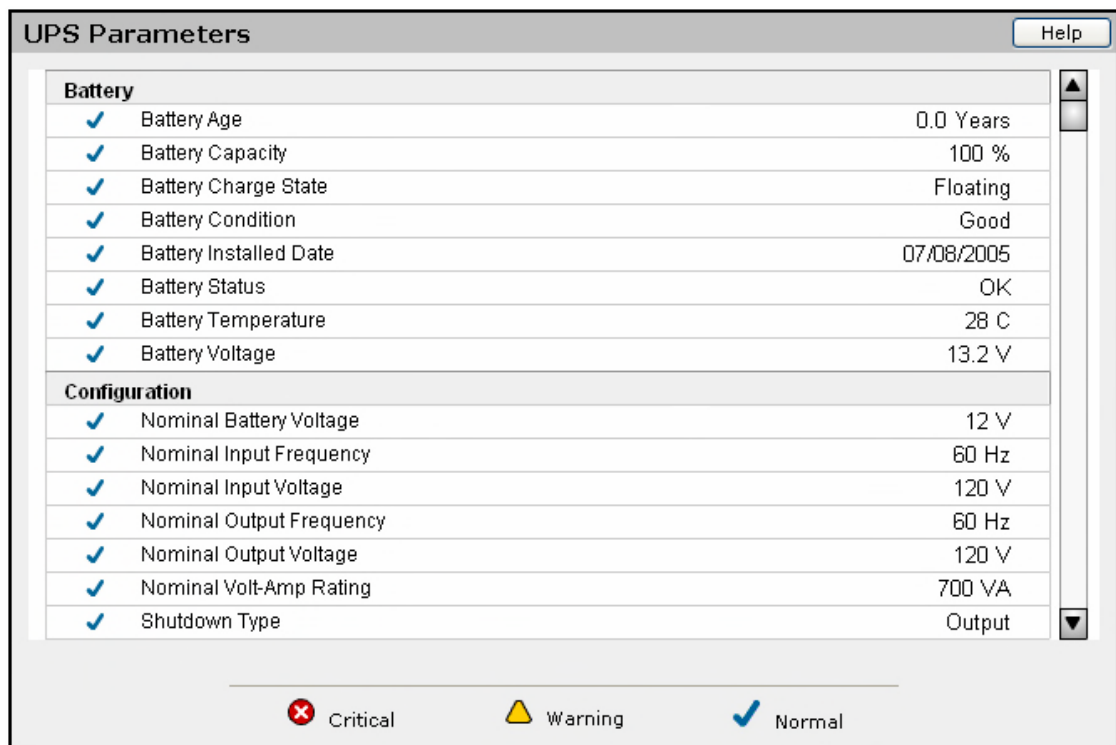


Identification		Help
Contact	Joe User	
Contact Email	Joe_User@acme.com	
Contact Phone	555-312-5512	
Device Name	UPS 123	
Manufacturer	Mitsubishi	
Model	7011A	
Protocol	SEC Mitsubishi	
Version	4.0	




5.3.4 Parameters

The **Parameters** page displays the list of available UPS parameters. The variables are listed in groups (Battery, Configuration, Input, Output, and Self-Test).

Note: the list of variables will vary based on UPS model.



UPS Parameters		Help
Battery		
✓	Battery Age	0.0 Years
✓	Battery Capacity	100 %
✓	Battery Charge State	Floating
✓	Battery Condition	Good
✓	Battery Installed Date	07/08/2005
✓	Battery Status	OK
✓	Battery Temperature	28 C
✓	Battery Voltage	13.2 V
Configuration		
✓	Nominal Battery Voltage	12 V
✓	Nominal Input Frequency	60 Hz
✓	Nominal Input Voltage	120 V
✓	Nominal Output Frequency	60 Hz
✓	Nominal Output Voltage	120 V
✓	Nominal Volt-Amp Rating	700 VA
✓	Shutdown Type	Output

Legend:  Critical  Warning  Normal

5.3.5 Attached Devices

The **Attached Devices** page allows the user to view and configure attached devices (equipment that is being powered by the UPS).

Note: if the user does not have administrator privileges, the link to this page will not be displayed.

The page will display all devices that are currently configured as attached devices. The **Management Server** device will be added by default. This is the computer running the DiamondLink server software. Devices will be configured as either a **Remote Agent** or as **Other Device**. A remote agent is a computer that is being powered by the UPS and is running the remote shutdown agent software. All other devices, such as printers, will be classified as other devices. If communications have been successfully established with a remote agent, a normal icon will be displayed in front of the remote agent name. If the server is unable to communicate with a remote agent, a critical icon will be displayed and a "Remote Agent Not Connected" alarm will be triggered.

The time to shut down a computer includes the time to execute the optional shutdown command procedure plus the time to shut down the operating system. The administrator sets these time values and care should be taken to ensure the values allow the system to gracefully shut down.

Note: the management server will not be shut down until all other systems have been shut down. This ensures that all commands are sent to the remote systems prior to shutting down the management server.

Attached Devices					
<input type="button" value="Add New Device"/> <input type="button" value="Refresh Page"/> <input type="button" value="Help"/>					
Icon	Device Name	Command Procedure	Estimated Time Required To		Total Time
			Execute Command	Shut Down OS	
	Entire UPS				
	Management Server		0 Min	2 Min	2 Min
	Printer		0 Min	0 Min	0 Min
	Email server	✓	3 Min	2 Min	5 Min
Total time to shut down Entire UPS:					5 Min

5.3.5.1 Adding Attached Devices

Perform the following steps to add a new attached device:

1. Click the **Add New Device** button. The **Add Device** page will be displayed.

Add Device

Device Description		Device Type	
<input type="text"/>		Remote Agent <input type="button" value="v"/>	
Computer Device Information		Estimated Time Required To	
Host Name or IP Address	<input type="text"/>	Shut Down OS	<input type="text" value="1"/> Min
<input type="checkbox"/> Run Command Procedure (SDScript)?		Execute Command	<input type="text" value="1"/> Min

2. Enter the device name or description in the **Device Description** edit box.
3. Select the type of device from the **Device Type** dropdown list. Select **Remote Agent** if the device is a computer running the remote shutdown agent software. If not, select **Other Device**.
4. If the device is a remote agent:

- a. Enter the host name or IP Address in the **Host Name or IP Address** edit box.
- b. Enter the estimated time required to shut down the operating system (in minutes) in the **Shut Down OS** edit box.
- c. If you wish to run a command script prior to shutting down the operating system, check the **Run Command Procedure (SDScript)** check box and enter the estimated time required to run the command procedure (in minutes) in the **Execute Command** edit box.

Note: the command procedure is called SDScript.cmd and is located in the SDScript subdirectory. Add whatever commands you want to have executed prior to initiating shutdown of the operating system.

5. Click the **Save Changes** button to save the new device.

5.3.5.2 Editing Attached Devices

Perform the following steps to edit the settings for an attached device:

1. Click the link for the attached device. The **Edit/Delete Device** page will be displayed.
2. Make any desired changes to the attached device and then click the **Save Changes** button to save the new configuration.

Note: you cannot change the device type for the Management Server.

5.3.5.3 Deleting Attached Devices

Perform the following steps to delete an attached device:

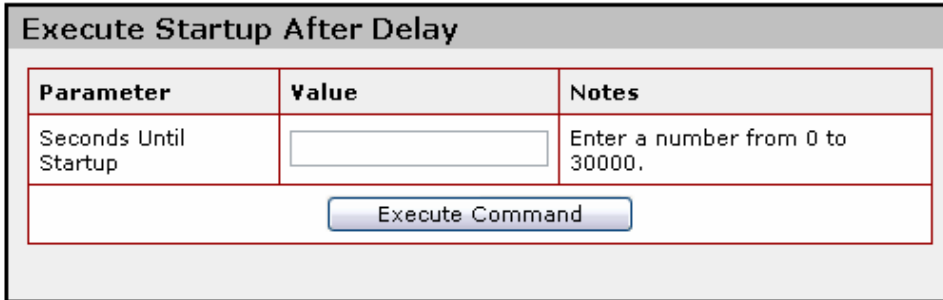
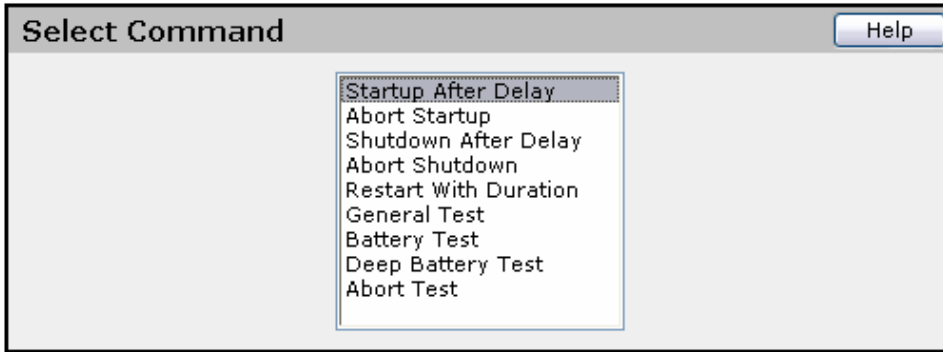
1. Click the link for the attached device. The **Edit/Delete Device** page will be displayed.
2. Click the **Delete Device** button to delete the attached device.

Note: you cannot delete the Management Server.

5.3.6 Manual Control

The **Manual Control** page allows the user to execute UPS commands (running a UPS self test, for example).

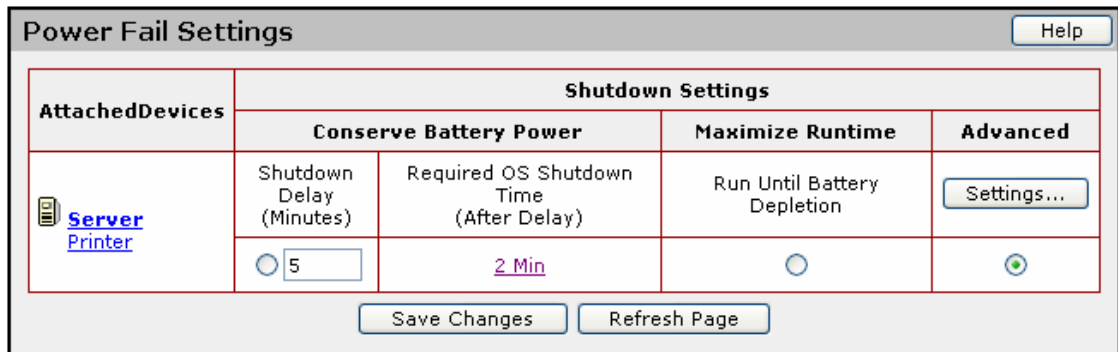
Note: if the user does not have administrator privileges or the UPS does not support control commands, the link to this page will not be displayed.



The list of controls available is dependent on the controls that are supported by the UPS. If the command selected from the available list does not have any parameters associated with it (such as UPS self-test), the user can execute the command by clicking the **Execute Command** button. If the selected command has associated parameters (such as number of seconds to wait before rebooting), enter an appropriate value for each required parameter before clicking the **Execute Command** button.

5.3.7 Power Fail

The **Power Fail** page allows the user to define how the management server should be shut down in the event of a power failure.



A list of attached devices and the time required to shut down the devices is displayed. These times are configurable through the [Attached Devices](#) page. Click on either the device or shutdown time link to configure the parameters for an attached device.

Note: if the user does not have administrator privileges, the link to this page will not be displayed.

There are several options for configuring the shutdown:

- **Conserve Battery Power** – select this option to conserve battery power by shutting down the systems prior to the UPS reaching a low battery condition. To choose this option, click the **Shutdown Delay** radio button and specify the amount of time to wait from the time the UPS goes on battery until the shutdown is initiated.
- **Maximize Runtime** – select this option to maximize the runtime for devices connected to the UPS by allowing the devices to run until the UPS has reached a low battery condition. To choose this option, click the **Run Until Battery Depletion** radio button.
- **Advanced Settings** – customize your shutdown to suit your preference. To choose this option, click the **Settings...** button. The **Advanced Power Fail Settings** page will be displayed.

The screenshot shows a window titled "Advanced Power Fail Settings" with a "Help" button in the top right corner. The window is divided into two main sections, each with a heading and two radio button options. The first section, "On Battery Shutdown", has the "Begin shutdown after a delay of 5 minutes." option selected, with a text input field containing the number "5". The second section, "Low Battery Shutdown", has the "Begin shutdown after a delay of 0 seconds." option selected, with a text input field containing the number "0". At the bottom center of the window is a "Save Changes" button.

Under the **On Battery Shutdown** heading, click the **Begin shutdown after a delay** radio button and enter the amount of time to wait (in minutes) from the time the UPS goes on battery until the shutdown is initiated. To disable shutdown, click the **Do not automatically shutdown** radio button.

Under the **Low Battery Shutdown** heading, click the **Begin shutdown after a delay** radio button and enter the amount of time to wait (in minutes) from the time the UPS signals a low battery condition until the shutdown is initiated. To disable shutdown on low battery, click the **Do not automatically shutdown** radio button.

5.3.8 Shutdown Events

The **Shutdown Events** page allows the user to shut down the system based on events other than a power failure or low battery condition.

Note: if the user does not have administrator privileges, the link to this page will not be displayed.

Shutdown Events
Help

Event	Shutdown?	Delay (Minutes)
Battery Discharged	<input type="checkbox"/>	0
Battery Failure	<input type="checkbox"/>	0
Bypass ON Auto	<input type="checkbox"/>	0
Input Out of Range	<input type="checkbox"/>	0
Output Out of Range	<input type="checkbox"/>	0
Overload	<input type="checkbox"/>	0
Temperature Out of Range	<input type="checkbox"/>	0

Save Changes

Note: the available shutdown events will vary depending on the UPS model.

To configure the system to shut down based on an event, perform the following steps:

1. Click the **Shutdown** checkbox for each event that you want to trigger a shutdown.
2. Enter the delay (in minutes) from the time the event occurs until the shutdown is started. If you enter a value of 0 (the default), the shutdown will be initiated immediately.
3. Click the **Save Changes** button to save the changes.

5.3.9 Event Settings

The **Event Settings** page allows the user to define the notification actions to take when an event occurs. The event notification actions include sending an email or alphanumeric page, sending an SNMP trap and sending a network broadcast message.

Note: If the user does not have administrator privileges, the link to this page will not be displayed.

Event Notifications
Help

	Critical	Warning	Information	Maintenance	User Defined 2
E-Mail	✓ user@myCompany.com				
SNMP	✓ 122.203.14.29				
Broadcast	✓ /DOMAIN				

Event Categories

Category	Name	Severity
User Defined 1	Maintenance	Warning ▼
User Defined 2	User Defined 2	Warning ▼

Save Changes

The events are grouped into three predefined categories – **Critical**, **Warning** and **Information**. You can configure two additional user-defined categories.

You will be able to see a snapshot of event notifications from this page. In the sample screen shown, the following notification actions will be taken whenever a critical event occurs:

- An email will be sent to user@mycompany.com
- An SNMP trap will be sent to the IP address 122.203.14.29
- A network broadcast will be sent to all names in the workstation domain

If event notification actions have not been defined for a particular event severity or if the event notification action has not been enabled, the box will be blank.

5.3.9.1 Defining Event Severity

Click on any of the event severity headings to display a page that will allow the user to define the severity for each event.

Event Severities Help						
Event	Critical	Warning	Information	Maintenance	User Defined 2	None
UPS Not Connected	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Maintenance Required	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Remote Agent Not Connected	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Temperature Out of Range	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Input Out of Range	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Output Out of Range	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
UPS Off	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overload	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Battery Failure	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Battery Low	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Battery Discharged	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bypass ON Auto	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
On Battery	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

The list of events will vary by UPS model. To change the severity for an event, click the radio button for the desired severity. Select the **None** radio button if you do not wish to be notified about an event. An event can be placed in only one category. Click the **Save Changes** button to save the new configuration.

5.3.9.2 Defining User-Definable Event Categories

To add your own event category, enter the name of the category in the **Name** edit box in the **Event Categories**. Select the SNMP trap severity level (Critical, Warning, or Information) from the **Severity** dropdown list. Click the **Save Changes** button to save the new category information.

5.3.9.3 Configuring Email/Alphanumeric Pager Notification

Perform the following steps to send an email or alphanumeric page message when an event occurs:

1. Click the **E**mail link. The **Email Setup** page will be displayed.

Email Server Setup			
SMTP Server	192.168.123.3		
SMTP From Address	user@company.com		
Enabled	Event	Email Address(es)	Delay (seconds)
<input checked="" type="checkbox"/>	Critical	user@company.com	10
<input checked="" type="checkbox"/>	Warning	user@company.com	30
<input type="checkbox"/>	Information		10
<input type="checkbox"/>	Maintenance		10
<input type="checkbox"/>	User Defined 2		10

2. Enter the IP address of your email server in the **SMTP Server** edit box.
3. Enter the email address of a valid user on your email server in the **SMTP From Address** edit box.
4. Click the **Enabled** check box for each event severity that you want to enable for email/pager notification.
5. Enter the email address for each person that is to receive notification in each event severity.
6. Enter the delay time (in seconds) from when the event occurs until the notification is sent for each event severity in the **Delay** edit box. Note: if the event clears before the delay time has expired, the notification will not be sent.
7. Click the **Save Changes** button to save the changes.
8. To verify your email settings, click the **Send Test Message** button. A test email will be sent to all configured email/pager recipients.

Note for Unix users: If you are having problems sending email make sure the computer you are sending the message to is included in your system's "Host" file.

5.3.9.4 Configuring SNMP Trap Notification

Perform the following steps to send an SNMP Trap when an event occurs:

1. Click the **SNMP** link. The **SNMP Setup** page will be displayed.

SNMP Setup
Help

SNMP Setup

Trap Community String

Enabled	Event	SNMP Address(es)		Delay (seconds)
<input checked="" type="checkbox"/>	Critical	<input style="width: 80px;" type="text" value="122.203.14.29"/>	<input style="width: 80px;" type="text"/>	<input style="width: 40px;" type="text" value="10"/>
<input type="checkbox"/>	Warning	<input style="width: 80px;" type="text"/>	<input style="width: 80px;" type="text"/>	<input style="width: 40px;" type="text" value="10"/>
<input type="checkbox"/>	Information	<input style="width: 80px;" type="text"/>	<input style="width: 80px;" type="text"/>	<input style="width: 40px;" type="text" value="10"/>
<input type="checkbox"/>	Maintenance	<input style="width: 80px;" type="text"/>	<input style="width: 80px;" type="text"/>	<input style="width: 40px;" type="text" value="10"/>
<input type="checkbox"/>	User Defined 2	<input style="width: 80px;" type="text"/>	<input style="width: 80px;" type="text"/>	<input style="width: 40px;" type="text" value="10"/>

2. Enter the trap community in the **Trap Community String** edit box.
3. Click the **Enabled** check box for each event severity that you want to enable for SNMP Trap notification.
4. Enter the IP Address for each computer that is to receive an SNMP trap in each event severity.
5. Enter the delay time (in seconds) from when the event occurs until the SNMP Trap is sent for each event severity in the **Delay** edit box. Note: if the event clears before the delay time has expired, the trap will not be sent.
6. Click the **Save Changes** button to save the changes.
7. To verify your settings, click the **Send Test Message** button. A test SNMP trap will be sent to all configured computers.

Note for Unix users: If you are having problems sending SNMP traps make sure the computer you are sending the SNMP trap to is included in your system's "Host" file.

5.3.9.5 Configuring Network Broadcast Notification

Perform the following steps to send a network broadcast when an event occurs:

1. Click the **Broadcast** link. The **Broadcast Setup** page will be displayed.

Broadcast Setup				Help
Enabled	Event	Broadcast Hostname(s)/IP Address(es)		Delay (seconds)
<input checked="" type="checkbox"/>	Critical	<input type="text" value="/DOMAIN"/>	<input type="text"/>	<input type="text" value="10"/>
<input type="checkbox"/>	Warning	<input type="text"/>	<input type="text"/>	<input type="text" value="10"/>
<input type="checkbox"/>	Information	<input type="text"/>	<input type="text"/>	<input type="text" value="10"/>
<input type="checkbox"/>	Maintenance	<input type="text"/>	<input type="text"/>	<input type="text" value="10"/>
<input type="checkbox"/>	User Defined 2	<input type="text"/>	<input type="text"/>	<input type="text" value="10"/>

- Click the **Enabled** check box for each event severity that you want to enable for network broadcast notification.
- Enter the host name or IP address for each computer that is to receive notification in each event severity.

The following special options can also be entered:

* Send to all names in your workgroup.

/DOMAIN Send to all names in the workstation domain. If a domain name is specified, the message is sent to all names in the specified domain or workgroup.

/USERS Send message to all users connected to the server.

- Enter the delay time (in seconds) from when the event occurs until the notification is sent for each event severity in the **Delay** edit box. Note: if the event clears before the delay time has expired, the notification will not be sent.
- Click the **Save Changes** button to save the changes.
- To verify your settings, click the **Send Test Message** button. A test broadcast will be sent to all configured computers.


Note for Unix users: If you are having problems sending network broadcasts make sure the computer you are sending the broadcast to is included in your system's "Host" file. The server must have SAMBA properly configured to send broadcasts. Clients must have SAMBA properly configured to receive broadcasts.

Note for Windows users: client computers must have the Messenger service started in order to receive broadcast messages.

Note for Netware users: all current network connections to the Netware server will be sent a broadcast message.

5.3.10 Settings

The **Settings** page allows you to change contact information and configurable settings for the UPS. Enter the information in the appropriate edit box and click the **Save Changes** button to save the changes.

Settings		Help
Variable	Value	Notes
Battery Installed Date	<input type="text" value="10/14/2006"/> 	Enter a new date or select the calendar icon to pick a date.
Contact	<input type="text"/>	Enter a new Contact in the box provided.
Contact Email	<input type="text"/>	Enter a new Contact Email in the box provided.
Contact Phone	<input type="text"/>	Enter a new Contact Phone in the box provided.
Device Name	<input type="text" value="Power Saver 700"/>	Enter a new Device Name in the box provided.
Low Battery Warning	<input type="text" value="50"/> %	Enter a number from 0 to 100.
Nominal Battery Life	<input type="text" value="3"/> Years	Enter a number from 1 to 5.
Nominal Battery Voltage	<input type="text" value="12"/> V	Enter a new Nominal Battery Voltage in the box provided.
Nominal Input Voltage	<input type="text" value="120"/> V	Select a new Nominal Input Voltage from the list.
Nominal Output Voltage	<input type="text" value="120"/> V	Select a new Nominal Output Voltage from the list.

5.4 Logs

The **Logs** tab has the following menu items:

- [UPS Summary](#)
- [UPS Detailed](#)
- [UPS Data](#)
- [UPS Data Graph](#)
- [UPS Maintenance](#)
- [Application](#)

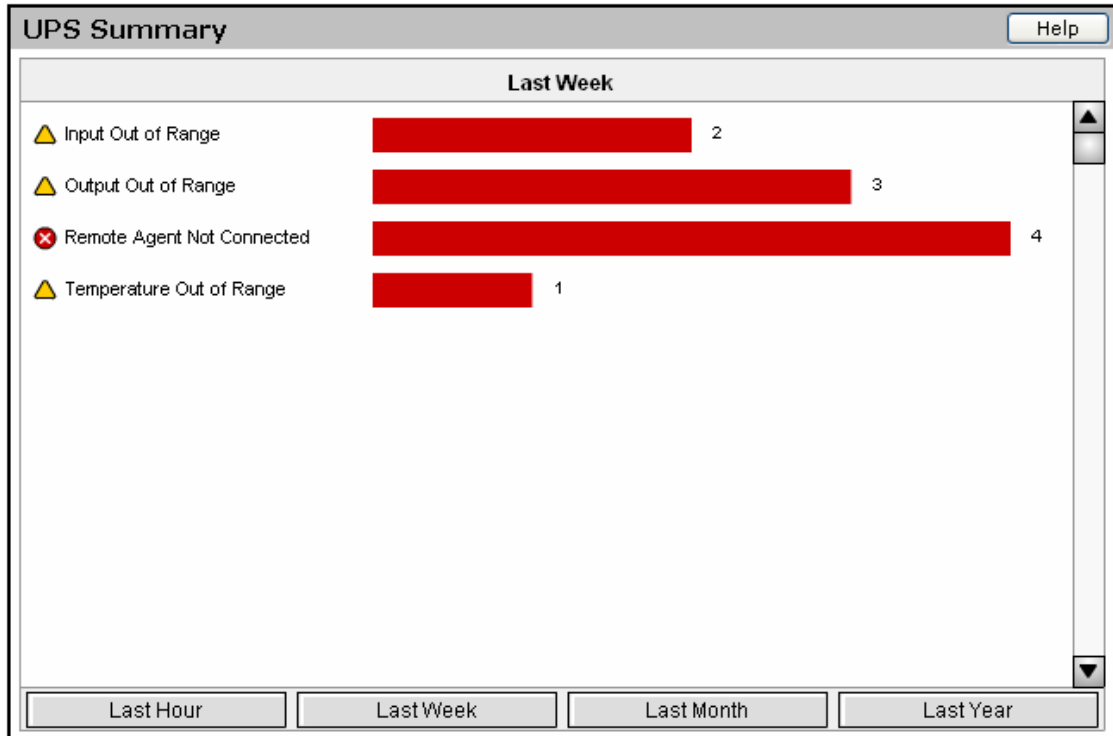
5.4.1 UPS Summary

The **UPS Summary** page displays a summary of events that have occurred on the UPS over a selected time period.

Select from one of the available time periods by clicking the appropriate button:

- Last 24 Hours
- Last Week
- Last Month
- Last Year

Clicking on an event will display help text for the selected event, including a description of the event and recommended actions to take.



5.4.2 UPS Detailed

The **UPS Detailed** page displays a detailed log of all UPS events that have occurred.

The severity, alarm description and the date and time the event occurred will be displayed.

The logs may be updated by clicking the **Refresh Page** button.

The log file can be cleared by clicking the **Clear Logs** button. Note that this will clear all event log data, including the data used for the **UPS Summary** page.

Use the following buttons for navigating through the event records:

- > Display the next page of events
- Last** Display the last page of events
- < Display the previous page of events
- First** Display the first page of events

UPS Detailed Help

Severity	Description	Date	Time
✓	The remote agent is connected.	July 10 2005	16:17:55
✗	Connection with the remote agent was lost.	July 10 2005	16:17:42
✓	The remote agent is connected.	July 10 2005	15:48:36
✗	Connection with the remote agent was lost.	July 10 2005	15:48:15
✓	The remote agent is connected.	July 10 2005	15:24:15
✗	Connection with the remote agent was lost.	July 10 2005	15:23:16
✓	The remote agent is connected.	July 09 2005	16:58:44
✗	Connection with the remote agent was lost.	July 09 2005	16:58:26
⚠	Output voltage is out of range.	July 09 2005	10:26:42
⚠	Input voltage is out of range.	July 09 2005	10:26:42
✓	Output voltage is normal.	July 08 2005	14:24:18
✓	Input voltage is normal.	July 08 2005	14:24:18
✓	Temperature has returned to normal.	July 08 2005	14:24:18
⚠	Output voltage is out of range.	July 08 2005	14:17:23
✓	Output voltage is normal.	July 08 2005	14:17:11

✗ Critical
⚠ Warning
ℹ Information
✓ Cleared

5.4.3 UPS Data

The **UPS Data** page displays the values for UPS variables.

Note: the data values displayed will vary depending on the log settings and the data available for your UPS model.

UPS Data Help

Log Interval: 10 min

Date	Time	Battery Capacity	Battery Voltage	Battery Temperature	Battery Charge State	Input Voltage	Output Voltage	Output Power	Output Load
July 11 2005	13:09:37	100 %	13.2 V	28 C	Floating	120.0 V	120.0 V	275.0 W	47.0 %
July 11 2005	12:59:36	100 %	13.2 V	28 C	Floating	120.0 V	120.0 V	275.0 W	47.0 %
July 11 2005	12:49:35	100 %	13.2 V	28 C	Floating	120.0 V	120.0 V	275.0 W	47.0 %
July 11 2005	12:39:34	100 %	13.2 V	28 C	Floating	120.0 V	120.0 V	275.0 W	47.0 %
July 11 2005	12:29:33	100 %	13.2 V	28 C	Floating	120.0 V	120.0 V	275.0 W	47.0 %
July 11 2005	12:19:32	100 %	13.2 V	28 C	Floating	120.0 V	120.0 V	275.0 W	47.0 %
July 11 2005	12:09:31	100 %	13.2 V	28 C	Floating	120.0 V	120.0 V	275.0 W	47.0 %
July 11 2005	11:59:30	100 %	13.2 V	28 C	Floating	120.0 V	120.0 V	275.0 W	47.0 %
July 11 2005	11:49:29	100 %	13.2 V	28 C	Floating	120.0 V	120.0 V	275.0 W	47.0 %
July 11 2005	11:39:28	100 %	13.2 V	28 C	Floating	120.0 V	120.0 V	275.0 W	47.0 %

Click the **Clear Logs** button to clear the UPS data.
 Click the **Refresh Page** button to update the UPS data.

Use the following buttons for navigating through the UPS data:

- > Display the next data value
- >> Display the next page of data values

- Last** Display the last page of data values
- <** Display the previous data value
- <<** Display the previous page of data values
- First** Display the first page of data values

5.4.3.1 Log Settings

Click the **Log Settings** button to configure the log settings. The **Log Settings** page will be displayed.

Variable	Value	Notes
Log interval	10 min	Enter a logging interval
Log Parameters	<p>Battery</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Battery Age <input checked="" type="checkbox"/> Battery Capacity <input checked="" type="checkbox"/> Battery Charge State <input checked="" type="checkbox"/> Battery Condition <input checked="" type="checkbox"/> Battery Status <input checked="" type="checkbox"/> Battery Temperature <input checked="" type="checkbox"/> Battery Voltage <p>Input</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Input Frequency <input checked="" type="checkbox"/> Input Voltage <p>Output</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Output Current <input checked="" type="checkbox"/> Output Frequency <input checked="" type="checkbox"/> Output Load <input checked="" type="checkbox"/> Output Power <input checked="" type="checkbox"/> Output Source <input checked="" type="checkbox"/> Output Voltage <p>Self-Test</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Test Results Summary 	

Save Changes

Select the variables you want to display by clicking the check box in front of the variable. Note that the available variables will depend on the UPS model. It should also be noted that all variables are recorded. The checks simply indicate which variable will be displayed on the **UPS Data** page.

To change the log interval, select the desired log interval from the **Log interval** dropdown list. The choices are:

- 15 seconds
- 30 seconds
- 1 minute
- 3 minutes
- 5 minutes
- 10 minutes
- 15 minutes
- 20 minutes
- 30 minutes
- 1 hour



Using a shorter log interval will increase the amount of disk space required to store the data. In addition to the scheduled log interval, data will also be recorded whenever an event occurs.

Click the **Save Changes** button to store the new logging configuration.

5.4.3.2 Exporting Logs

Click the **Export Logs** button to export the data to an external file. The **Data Log Export** page will be displayed.

Data Log Export Help

Export data from  to 
(Please select start and end dates with the provided calendars.)

Data Format: Comma-Separated Tab Delimited

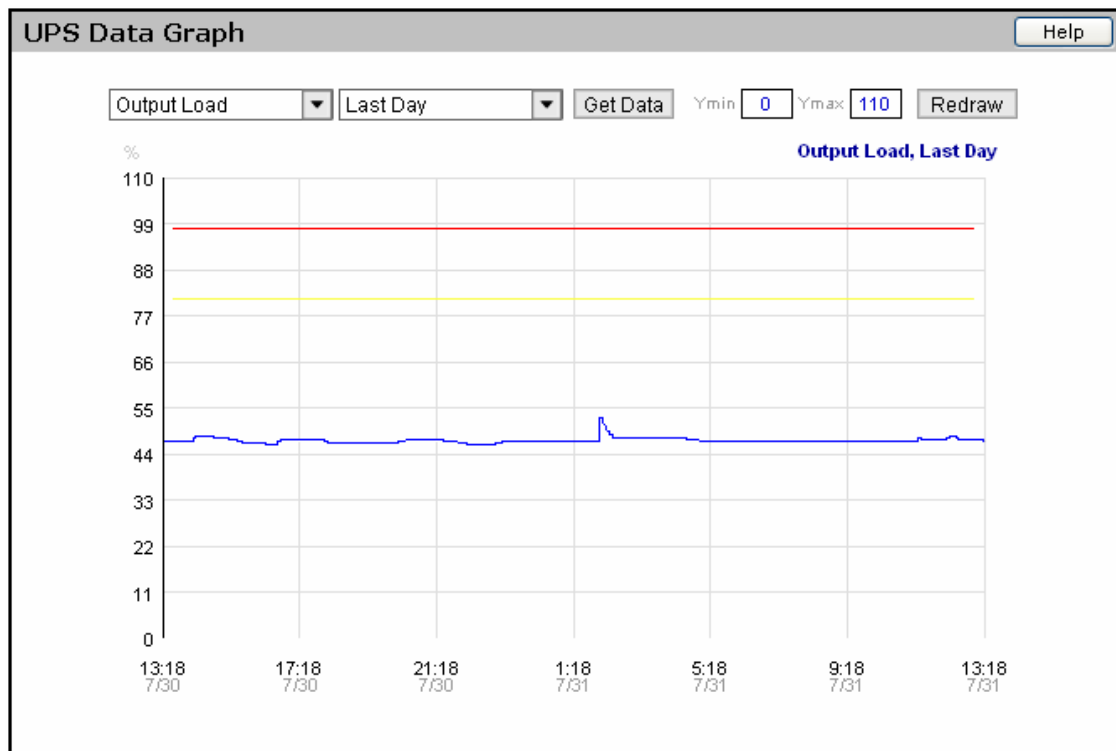
Save to File Download Document
(Note: When saving to a file, the file will be saved to the Management Server)

Perform the following steps to export the data:

1. Use the calendar controls to select the start and end dates for the data to be exported.
2. Click the **Comma-Separated** radio button to export the data as a comma-separated file or the **Tab Delimited** radio button to export the data in a tab delimited format.
3. To save the data to a file on the management server, click the **Save to File** radio button and enter the file name in the edit box. To save the data to your local computer, click the **Download Document** radio button.
4. Click the **Do Export** button to export the data.

5.4.4 UPS Data Graph

The **UPS Data Graph** page displays the values for UPS variables in a graphical format.



Perform the following steps to display a data graph:

1. Select the variable to graph from the dropdown list of variables. Note that the data values available for graphing will vary depending on the data available for your UPS model.

2. Select the period of time to graph from the dropdown list of intervals. You can choose from the following list: **Last 30 Minutes**, **Last Hour**, **Last Day**, **Last Week**, or **Last Month**.
3. Click the **Get Data** button to display the selected data.
4. To change the Y axis range, enter appropriate values in the **Ymin** and **Ymax** edit boxes and then click the **Redraw** button.

5.4.5 UPS Maintenance

The **UPS Maintenance** page displays information about UPS maintenance records.

	Date	Performed By	Work Type	Status	Delete
✓	07/31/2005	Joe User	Preventative Maintenance	Completed	<input type="checkbox"/>

Buttons: Add New Record, Delete Selected Records, Print Records...

Select the **Print Records...** button to display the maintenance records in a printable view.

Perform the following steps to add a new maintenance record:

1. Click the **Add New Record** button. The **Add Maintenance Record** page will be displayed.

Date	Performed By	Work Type	Complete
7/31/2005		Battery Replacement	<input type="checkbox"/>

Notes / Comments / Work Description

Buttons: Save Changes

2. Use the **Date** calendar control to enter the maintenance date. To schedule maintenance, enter a date in the future. When this date arrives, an alarm will be generated to remind you of the scheduled maintenance.
3. Enter the name of the person performing the maintenance in the **Performed By** edit box.
4. Select the type of maintenance work from the Work Type dropdown list. The available choices are **Battery Replacement**, **Firmware Upgrade**, **Preventative Maintenance**, **Repair** and **Other**.
5. If the maintenance has been completed, click the **Complete** check box.
6. Enter notes, comments or description of the work performed (or to be performed) in the space provided.
7. Click the **Save Changes** button to save the maintenance record.

Perform the following steps to edit an existing maintenance record:

1. Click the link for the record in **Work Type** column. The **Add/Edit Maintenance Record** page will be displayed.
2. Make any changes to the maintenance record.
3. Click the **Save Changes** button to save the changes.

Perform the following steps to edit an existing maintenance record:

1. Click the Delete checkbox for each maintenance record to be deleted.

2. Click the **Delete Selected Records** button to delete the records.

5.4.6 Application

The **Application Logs** page displays DiamondLink application events. These events include such things as a user logging in or out of the application, adding a maintenance record and so on.

User	Description	Date	Time
ADMIN [192.168.123.167]	Maintenance Records Changed	July 11 2005	13:24:09
ADMIN [192.168.123.167]	Data Log Configuration Changed	July 11 2005	13:17:35
ADMIN [192.168.123.167]	Data Log Configuration Changed	July 11 2005	13:17:16
ADMIN [192.168.123.167]	User logged in	July 11 2005	13:12:29
ADMIN [192.168.123.167]	User logged out	July 11 2005	13:10:28
ADMIN [192.168.123.167]	User logged in	July 11 2005	13:00:22
ADMIN [192.168.123.167]	User logged out	July 11 2005	13:00:11
ADMIN [192.168.123.167]	User logged in	July 10 2005	17:25:22
ADMIN [192.168.123.167]	User logged out	July 10 2005	17:23:14
ADMIN [192.168.123.167]	Event Categories Configuration Changed	July 10 2005	16:42:43
ADMIN [192.168.123.167]	Broadcast Configuration Changed	July 10 2005	16:42:24
ADMIN [192.168.123.167]	SNMP Configuration Changed	July 10 2005	16:42:09
ADMIN [192.168.123.167]	Email Configuration Changed	July 10 2005	16:41:34
ADMIN [192.168.123.167]	User logged in	July 10 2005	16:34:38
ADMIN [192.168.123.167]	User logged out	July 10 2005	16:30:52
ADMIN [192.168.123.167]	Removed Attached Device test	July 10 2005	16:17:52
ADMIN [192.168.123.167]	Added Attached Device test	July 10 2005	16:17:39
ADMIN [192.168.123.167]	User logged in	July 10 2005	16:11:57
ADMIN [192.168.123.167]	User logged out	July 10 2005	16:11:51
ADMIN [192.168.123.167]	Removed Attached Device Email server	July 10 2005	15:48:32

Clear Logs Refresh Page Export Logs > Last

Use the following buttons for navigating through the event records:

- > Display the next page of events
- Last** Display the last page of events
- < Display the previous page of events
- First** Display the first page of events

Click the **Clear Logs** button to clear the application log.

Click the **Refresh Page** button to get the latest application events.

Click the **Export Logs** button to export the application data to a file. The **Application Log Export** page will be displayed.

Application Log Export		Help
Export data from	<input type="text"/>	to <input type="text"/>
<i>(Please select start and end dates with the provided calendars.)</i>		
Data Format:	<input checked="" type="radio"/> Comma-Separated	<input type="radio"/> Tab Delimited
<input checked="" type="radio"/> Save to File	<input type="text" value="logs.txt"/>	<input type="radio"/> Download Document
<i>(Note: When saving to a file, the file will be saved to the Management Server)</i>		
<input type="button" value="Do Export"/>		

Perform the following steps to export the data:

1. Use the calendar controls to select the start and end dates for the data to be exported.

2. Click the **Comma-Separated** radio button to export the data as a comma-separated file or the **Tab Delimited** radio button to export the data in a tab delimited format.
3. To save the data to a file on the management server, click the **Save to File** radio button and enter the file name in the edit box. To save the data to your local computer, click the **Download Document** radio button.
4. Click the **Do Export** button to export the data.

5.5 Setup

The **Setup** tab provides the following menu options:

- [My Account](#)
- [User Accounts](#)

Note: if you do not have administrator privileges, only the **My Account** option will be available.

5.5.1 My Account

The **My Account** page allows a user to change their password. Enter the new password in the **Password** and **Verify Password** fields and then click the **Save Settings** button. The password is case sensitive.

5.5.2 User Accounts

The **User Accounts** page allows a user with administrator privileges to manage user accounts. The default user is **admin**, which has administrator privileges. Logging in under this account allows you to configure your software.

Delete	Name	Password	Verify Password	Administrator
<input type="checkbox"/>	admin			<input checked="" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>

To add a user account, perform the following steps:

1. Enter the name of the new user in the **Name** edit box. The username is not case-sensitive.
2. Enter the password for the new user in the **Password** edit box. The password is case sensitive.
3. Verify the password by reentering it in the **Verify Password** edit box. The password is case sensitive.
4. If you want the new user to have administrator privileges, click the **Administrator** check box.
5. Click the **Save Changes** button to save the changes.

To edit a user account, perform the following steps (Note that you cannot change the user name for the **admin** user account):

1. Enter the new name of the user in the **Name** edit box. The username is not case-sensitive.
2. Enter the password for the user in the **Password** edit box. The password is case sensitive.
3. Verify the password by reentering it in the **Verify Password** edit box. The password is case sensitive.
4. If you want the user to have administrator privileges, click the **Administrator** check box.
5. Click the **Save Changes** button to save the changes.

To delete a user account, perform the following steps:

1. Check the **Delete** check box for each user you wish to delete.
2. Click the **Delete Selected Users** button to delete the selected user(s).

5.6 Help

The Help menu provides three options:

- About – Company and product information
- Contents – Online help
- Info & Updates – Link to Mitsubishi web site