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Introduction Product Description The APC® Switched Rack Power Distribution Unit (PDU) is a stand-alone, network-manageable device that provides current monitoring and allows programmable control of eight, sixteen, or twenty-four power outlets (depending on the model). You can manage a Switched Rack PDU through its Web interface, its control console, the InfraStruXure® Manager, or SNMP. • The Web interface supports using HTTPS access with Secure Sockets Layer (SSL) and using HTTP access. • Four levels of user access accounts—Administrator, Device Manager, Read Only User, and Outlet User • Event and data logging—the event log is accessible by Telnet, Secure CoPy (SCP), File Transfer Protocol (FTP), serial connection, or Web browser (using HTTPS access with SSL, or using HTTP access).Access Procedures Overview For more information about the internal user interfaces, see Control Console and Web Interface. The SNMP interface also allows you to use an SNMP browser with the PowerNet® Management Information Base (MIB) to manage the Rack PDU. Switched Rack PDU USER'S GUIDE The Switched Rack PDU has two internal interfaces (control console and Web interface) that allow you to manage the Rack PDU.Types of user accounts The Rack PDU has four levels of access (Administrator, Device Manager, Read-Only User, and Outlet User), all of which are protected by password and user name requirements. • A Device Manager can use only the following menus: – The Device Manager menu and its sub-menus in the control console, and all menus in the top section of the navigation panel of the Web Interface (Switched Rack PDU and Outlets). – The Log option in the Events menu in the Web interface.Switched Rack PDU USER'S GUIDE You must use the Web interface to configure values for the Read-Only User, and you must use the control console to configure values for an Outlet User.How to Recover From a Lost Password You can use a local computer, a computer that connects to the Rack PDU or other device through the serial port to access the control console. 2. Connect the serial cable (990-0144) to the selected port on the computer and to the configuration port at the Rack PDU. 3. Run a terminal program (such as HyperTerminal®) and configure the selected port as follows: – 9600 bps – 8 data bits – no parity Switched Rack PDU USER'S GUIDE 1.7. From the Control Console menu, select System, then User Manager. 8. Select Administrator, and change the User Name and Password settings, both of which are now defined as apc. Switched Rack PDU USER'S GUIDE 9. Press CTRL-C, log off, reconnect any serial cable you disconnected, and restart any service you disabled.Upgrading Firmware through a Serial Connection You can use a local computer that connects to the Rack PDU through the serial port on the front panel of the unit. 1. Select a serial port at the local computer, and disable any service which uses that port. 2. Use the supplied serial cable (940-0144) to connect the selected port to the serial port on the front panel of the Rack PDU.9. In the terminal program, send the file using the XMODEM protocol. When the transfer finishes, the console will prompt you to restore the baud rate to normal. Do not interrupt the download. The Rack PDU will restart when the download is complete. Upgrading the firmware will not interfere with the operation of the outlets.Front Panel Switched Rack PDU USER'S GUIDE Single-phase Three-phase Three-phase Switched Rack PDUs have one of the following two front panels: • 10Switched Rack PDU USER'S GUIDE Item Function Load Indicator LED Identifies overload and warning conditions for the displayed phase or bank. See Load indicator LED. Input Selector On 3-phase models, press the input selector to monitor the current of the next phase or bank. For either 1- or 3-phase units, press and hold the input selector to display the IP address of the Rack PDU or to invert the display. At ten seconds the displayed numbers invert.Function Digital Display Displays the current (amps) for the phase or bank indicated by the illuminated Load Indicator LED. On 3-phase units, the Digital Display will cycle through the phases or banks, displaying the current for each for 3 seconds. If an internal communication failure or power supply failure occurs (for either a 1- or 3-phase model), the Digital Display displays Er, which you can clear by pressing the input selector.Status LED Condition Description Off The Rack PDU has no power. Solid Green The Rack PDU has valid TCP/IP settings. Flashing Green The Rack PDU does not have valid TCP/IP settings.† Solid Orange A hardware failure has been detected in the Rack PDU. Contact APC Worldwide Customer Support. Flashing Orange The Rack PDU is making BOOTP requests. Flashing Orange and Green (alternating) The Rack PDU is making DHCP requests.Watchdog Features Overview Network interface watchdog mechanism The Rack PDU implements internal watchdog mechanisms to protect itself from becoming inaccessible over the network. For example, if the Rack PDU does not receive any network traffic for 9.5 minutes (either direct traffic, such as SNMP, or broadcast traffic, such as an Address Resolution Protocol [ARP] request), it assumes that there is a problem with its network interface and restarts itself.Control Console How to Log On You can use either a local (serial) connection, or a remote (Telnet or SSH) connection to access the control console. If you cannot remember your user name or password, see How to Recover From a Lost Password.Remote access to the control console Telnet provides the basic security of authentication by user name and password, but not the high-security benefits of encryption. To use Telnet to access the control console from any computer on the same subnet: 1. At a command prompt, type telnet and the System IP address for the Rack PDU (when the PDU uses the default Telnet port of 23), and then press ENTER. For example: telnet 139.225.6.Local access to the control console You can use a local computer that connects to the Rack PDU through the serial port on the front panel of the unit. 2. Use the supplied serial cable (940-0144) to connect the selected port to the serial port on the front panel of the Rack PDU. 3. Run a terminal program (such as HyperTerminal) and configure the selected port for 9600 bps, 8 data bits, no parity, 1 stop bit, and no flow control. Save the changes. 4.Main Screen Example main screen User Name : apc Password : ** American Power Conversion Network Management Card AOS v2.6.4 v2.6.6 • Copyright 2002 All Rights Reserved Rack PDU APP v2.6.Information and status fields Network Management Card AOS Rack PDU APP v2.6.4 v2.6.6 • Three fields identify the system Name, Contact, and Location values. Name : MS3 Test Unit Contact : Bill Cooper Location : Testing Lab To set the Name, Contact, and Location values, see System Menu. Switched Rack PDU USER'S GUIDE Main screen information fields. • Two fields identify the APC device version information fields. Main screen status fields. • A Stat field reports the Rack PDU status. Switched Rack PDU USER'S GUIDE Stat : P+ N+ A+ P+ The APC operating system (AOS) is functioning properly. N+ The network is functioning properly. N? A BOOTP request cycle is in progress. N- The Rack PDU failed to connect to the network. N! Another device is using the IP address of the Rack PDU. A+ The application is functioning properly. A- The application has a bad checksum. A? The application is initializing.Control Console Menus Menu structure For menus that allow you to change a setting, you must use the Accept Changes option to save the changes you made. While in a menu, you can also do the following: • Type ? and press ENTER to access brief menu option descriptions (if the menu has help available). • Press ENTER to refresh the menu. • Press ESC to go back to the menu from which you accessed the current menu. • Press CTRL-C to return to the main (control console) menu.Main menu The main control console menu has options that provide access to the management features of the control console: 1- Device Manager 2- Network 4- Logout s When you log on as a Device Manager or as an Outlet User, you will not have access to the Network or System menus. Device Manager option This option accesses the Device Manager menu. Select the components you want to manage from this menu.Network option To do any of the following tasks, see Network Menu: • Configure the TCP/IP settings for the Rack PDU or, when the Rack PDU will obtain its TCP/IP settings from a server, configure the settings for the type of server (DHCP or BOOTP) to be used. • Define settings that affect the FTP, Telnet, Web interface and SSL, SNMP, e-mail, DNS, and Syslog features of the Rack PDU.Web Interface How to Log On You can use the DNS name or System IP address of the Switched Rack PDU for the URL address of the Web interface. If you are using HTTPS (SSL/TLS) as your access protocol, your login credentials are compared with information in a server certificate. If the certificate was created with the APC Security Wizard, when you log on you must use the same identifier for the Rack PDU as you specified for the common name in the certificate (either the IP address or the DNS name).See Web/SSL (Web/SSL/TLS in the control console) to select, enable, and disable the protocols that control access to the Web interface and to define the Web-server ports for the protocols. Supported Web browsers As your browser, you can use Microsoft® Internet Explorer (IE) 5.0 (and higher) or Netscape® 4.0.8 (and higher, except Netscape 6.x) to access the Rack PDU through its Web interface. Other commonly available browsers also may work but have not been fully tested by APC.URL address formats If the error "You are not authorized to view this page" occurs (Internet Explorer only), someone is logged onto the Web interface or control console. If the error "No Response" (Netscape) or "This page cannot be displayed" (Internet Explorer) occurs, Web access may be disabled, or the Rack PDU may use a non-default Webserver port that you did not specify correctly in the address.Summary Page When you log on to the Web interface at the Switched Rack PDU, the status view is at the right side of the screen, the quick status tab is at the upper right, and the navigation menu is at the left. The Status view has three sections: • The Device Status section reports any active alarm or warning conditions and displays the load for each phase or bank, including a graphic representation of the load thresholds.Quick status tab The quick status tab is displayed at the upper right on every page in the Web interface. The tab shows active alarms and warnings and a link to the online help. Click the green "device operating normally" icon to return to the status screen where the current for each phase or bank is displayed. Click the warning icon to return to the status screen where active warnings are displayed. Put the mouse cursor on the icon to view details of the warning.Navigation Menu On the Web interface, the navigation menu (left frame) has the following elements: • IP address of the Rack PDU • Menus to manage the Rack PDU and its components: – Switched Rack PDU menu with Configuration and Scheduling as options – Outlets menu with Control, Configuration, and Outlet Groups as options • Menus to manage the event log, data log, network connection, and system parameters: – Events menu Switched Rack PDU USER'S GUIDE Overview – Data menu – Network menu – System menu WhenSelecting a menu to perform a task • To do the following, see Switched Rack PDU Settings: – Configure the overload and low load thresholds for each phase or bank. – Configure the Overload Outlet Restriction for each phase or bank.

