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Apc rack pdu manual

User Manual Command-line interface for switched rack PDFs content product capabilities..... 1 Features .. 1 PDU features not supported by CLI .. . 1 Integration with APC Rack KVM products .. . 1 System requirements. 2 Firmware version required. 2 Export.ini file .. 2 Using the commands 3 How to enter CLI commands .. 3 Capitalization in commands and arguments 3 Editing in CLI .. 3 Space character as command separator 3 Quotation mark and the reverse slip .. . 3 Command error codes .. 4 Format .. 4 Codes .. 4 CLI Online Help. 4 Sign on and off..... 5 Login .. 5 Username and password .. 5 Login procedure .. 5 Responses to successful and failed login .. 5 Sign out .. 6 Log-out procedure .. 6 Automatic logoff .. 6 Command Syntax 7 Characters and Fonts .. 7 Syntax examples .. 8 Italic text without brackets or curly braces .. 8 Braces and vertical line .. 8 Brackets and ellipses .. 8 Large braces .. 8 Command Reference User Guide 9 User Management Overview .. 9 Types of users who can access CLI .. . 9 User authentication .. 9 User management commands .. 10 adduser .. 10 assign .. 11 sub-users .. 11 passwd .. 12 dispatched .. 13 whoami .. 13 Outlet Overview .. 14 Access to outlets .. 14 Synchronized outlet groups .. 14 Outlet commands .. 15 off .. 15 on .. 16 withdrawal groups .. 17 poweroffdelay .. . 18 powerondelay .. 19 reboot .. 20 restarts .. 21 status .. 22 Swapped rackp PDU Commands .. 23 power .. 23 list .. 24 loadalert .. 25 names .. 25 nearoverloading .. 26 overload .. 27 overload .. 28 pducoldstartdelay .. 29 power .. 29 General command commands .. 30 exit .. 30 help .. 30 reset_defaults_pdu .. 30 uploadini .. 31 vset .. 32 Index 33 (ii) Command Line Interface (CLI) User Guide for APC® Switched Rack PDUs (33 ii) Command Line Interface) enables you to create scripts for automated operation. The existing text-based control console interface to Switched Rack PDUs is difficult to use for scripts because it is menu-driven. APC will support both interfaces. CLI is not supported by PDU features for APC data racks with data redstackspade services not supported by CLI The Web, control console and SNMP interface for Switched Rack PDUs support the following features that do not have corresponding CLI commands: >Scheduling Configuration >Configuration of synchronized socket groups >Advanced socket control commands, such as sequenced on >Event logging, event operations, and other features provided through the APC AOS module for built-in applications that you use for web interface monitoring and control console. To configure features for which there are no corresponding CLI commands, see System Requirements on page 2 and uploading on page 31. Integration with APC Rack KVM products You can use CLI to create scripts to automate the management of your Switched Rack PDFs through the following APC rack products for keyboard, video, mouse (KVM). *AP5401 *AP5405 *AP5456 Command Line Boundary User Guide (AP5456) User Guide 1 To use the Command Line interface, your Switched Rack PDU must run firmware version 2.7.0 for the AOS fixed module and 2.7.3 for the application firmware module. Rack PDPs required You can only use the command-line interface with APC Switched Rack PDPs. Export a.ini file You can configure all parameters in a Switched Rack PDU (including those for which there are no specific CLI commands) by using to transfer.ini file to the PDU. CLI uses XMODEM to perform the transfer. However, you cannot read the current.ini through XMODEM. See uploadini on page 31. 2 Command Line Interface (CLI) commands are valid in lowercase, uppercase, or mixed case, but the arguments are case-sensitive unless otherwise stated. Editing in the CLI key BACK SPACE removes the last recorded character for the current command string. No other editing feature is available during command input. CLI does not retain a command history. You cannot download commands that have been previously specified. The Space character as command delimiter CLI uses a Space character (ASCII 0x20) as the twig between commands and arguments; extra Space characters are ignored. Quotation marks and the reverse skew steps Use quotation marks (ASCII 0x22) and the backward slash (\ decimal code 92) as follows: •For both input and output, enclose in quotation marks any string value that begins or ends with spaces or contains commas or semicolons. •Do not use traditional escape sequences (the reverse angle followed by a lowercase alphabetical character or with one or more numeric characters) preceding special characters within strings. CLI does not recognize such escape sequences, and the resulting error ignores the entire keyword and value pair. •If an argument value contains a quotation mark or reverse slant, it must be preceded by a reverse slant only as its escape character. For example, this command adds user John Doe to the local database: adduser \John Doe -f an input string contains a quotation mark or reverse skew, enclose the string in quotation marks. For example, this command adds the user pdu\ldrive to the local repository: adduser pdu\ldevice user <You may be able to use quotation marks to enclose any argument value. Command-Line Interface (CLI) User Guide 3 CLI reports all errors in the following format: E[0-9]{0-9}[0-9]: The CLI error message reports all successful command operations with the OK message, followed by the command output. The CLI command error codes enable scripted actions to reliably detect error conditions without having to match error message text. Codes Code Message Text Notes E100 Command does not exist. E101 Invalid Arguments command, are too few, too many, wrong type, etc. E102 User already exists. E103 User does not exist. E104 User does not have access to this command. E200 Input error. A command prompted for the necessary user input, such as a password, did not receive that input within three minutes. CLI Online Help Use the Help command to do the following: •Get information about the purpose and syntax of a specified command. •Check if a command exists. If the command you specify is not a valid CLI command, the command command message does not appear. •List the commands available to you, on your account type. 4 Kommandoradsgränsnitt Kommandoradsgränsnitt User Guide If you are not using a KVM, configure the administrator's user name and password through the PDU web or control console interface. If you are using a KVM, configure the administrator's user name and password in the /etc/pm KVM configuration file. APCPDU. The default for both is apc. Prime minister. The APCPDU file is saved to non-volatile memory when you save your configuration. The -c option is then applied to the configured password automatically to sign you in to CLI when you sign in to PDU. Login procedure To log on to CLI: 1.Connect to the Switched Rack PDU through Telnet, through SSH version 1 or 2, or serially. 2.At enter your user name in the Username prompt. 3.At password information, enter your password (followed by a space and -c if you are not using a KVM), and press ENTER. Response to successful and failed login When you try to log on to CLI: •If the username and password you entered are valid and CLI is available, you are logged on to CLI. The APC> prompt appears. •After three consecutive failed logon attempts, the PDU switch prevents further attempts for two minutes. •If CLI is not available, the Switched Rack PDU application layer will not start, i.e. •If you log on to CLI, and the firmware for the switch rack in The Switched Rack PDU has not started, CLI displays the following message and logs of you. PDU for switched racks is still initiating. Please try again later. •If the administrator password is incorrectly configured (does not meet the PDU criteria for a valid password) in KVM pm. The APCPDU configuration file prevents the PDU switch from attempting further logon attempts for 150 seconds. Correct the password configuration before you try to sign in again. Command Line Interface (CLI) User Guide 5 To log out of CLI, use one of the following commands: exit, logout, logoff, exit, or bye. Automatic logoff You will be automatically logged out under the following circumstances: •If the pdu logon time (3 minutes by default, or a configured time of 1 to 10 minutes) expires without keyboard input or mouse input within the CLI interface. Movement of the mouse pointer or if you click the mouse without actual input: the idle logoff timer does not start. •If the value is yes configured for the logoffAfterCommandComplete option in KVM pm. The APCPDU configuration file, and CLI completes the execution of the command you specified. The default for this option is no. A value of yes provides maximum availability for the text-based interface for other users. •If your connection to the Switched Rack PDU is via Telnet or SSH version 1 or 2, and there is a serial login to the Switched Rack PDU CLI to execute a command. Serial access to CLI always has priority over remote access. 6 Command Line Interface (CLI) User Guide Article Italic variables, such as outlet_number, are | A vertical line between objects enclosed in brackets [] or braces {} indicates that the objects are mutually exclusive; you cannot use more than one of the items. [] Brackets that enclose an item or series of items indicate that the item or series is optional. All objects that are not surrounded by brackets or braces are required. {} Braces enclose two or more objects, separated by the vertical line character, indicate that the objects are mutually exclusive, but that you must use one of the objects. All objects that are not enclosed in braces or brackets are required. Large braces have the same meaning as braces {}, but objects are stacked on separate rows within the large braces to simplify complex syntax. Ellipses after a variable item indicate that additional items of the same type can follow. All other All italicized text and all punctuation characters should be entered literally. Command Line Interface (CLI) User Guide 7 For the adduser command, you must specify the name of the user to add (specified in the variable user_name syntax. Braces and vertical line pdu\coldstartdelay (time|never) For the pdu\coldstartdelay command, you must specify either a time in seconds (time) that the PDU waits to apply power to its outlets, or set it never to specify that the sockets should never be automatically activated when the power is applied to the PDU. Parentheses and ellipses assign outlet{range},outlet{range}.. user_name For the assign command, you must specify at least one outlet or range of outlets and the user name of the outlet user to whom the outlets are assigned. Brackets indicate that you can optionally specify another outlet or range that that user should assign, and the ellipsis indicate that you can, optionally, specify additional points of sale or range in the same format. Large braces all at outlet{range},outlet{range}.. For the on command, you must specify one of the following: •The literal value all (to turn on all withdrawals) •A comma-separated list that may include outlets listed by name or number, or range of outlet numbers. 8 Command Line Boundary User Guide (CLI) User Guide

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