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OmniSwitch AOS Release 8 CLI Reference Guide

8.9R2

Alcatel·Lucent Enterprise

www.al-enterprise.com

This user guide documents AOS Release 8.9R2.
The functionality described in this guide is subject to change without notice.

26801 West Agoura Road
Calabasas, CA 91301
(818) 880-3500 FAX (818) 880-3505

Service & Support Contact Information
North America: 800-995-2696
Latin America : 877-919-9526
EMEA : +800 00200100 (Toll Free) or +1(650)385-2193
Asia Pacific: +65 6240 8484
Web: myportal.al-enterprise.com
Email: ale.welcomecenter@al-enterprise.com

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About This Guide

This *OmniSwitch AOS Release 8 CLI Reference Guide* is a comprehensive resource to all Command Line Interface (CLI) commands available on the OmniSwitch.

Supported Platforms

The information in this guide applies only to the following products:

- OmniSwitch 6360 Series
- OmniSwitch 6465 Series
- OmniSwitch 6560 Series
- OmniSwitch 6570M Series
- OmniSwitch 6860 Series
- OmniSwitch 6865 Series
- OmniSwitch 6900 Series
- OmniSwitch 9900 Series

Text Conventions

The following table contains text conventions and usage guidelines for CLI commands as they are documented in this guide.

bold text	Indicates basic command and keyword syntax. Example: **show snmp station**
italicized text	Indicates user-specific information such as IP addresses, slot numbers, passwords, names, etc. Example: **no snmp station** *ip_address* Italicized text that is not enclosed with straight brackets (**[ ]**) indicates required information.
[ ] (Straight Brackets)	Indicates optional parameters for a given command. Example: **show aaa server [***server_name***]** Here, you can enter either of the following options: **show aaa server** **show aaa server** *server_name* (where *server_name* is the user-specified server name, e.g., **show aaa server myserver1**) Note that this example includes *italicized text*. The optional parameter in this case is a user-specified server name.
{ } (Curly Braces)	Indicates that the user must choose between one or more parameters. Example: **port mirroring {enable | disable}** Here, you must choose one of the following: **port mirroring enable** or **port mirroring disable**
| (Vertical Pipes)	Used to separate parameter choices within a command string. For example, the command string **show health threshold [rx | txrx | memory | cpu]** separates the choices **rx**, **txrx**, **memory,** and **cpu**. Examples: **show health threshold rx** **show health threshold txrx** **show health threshold memory** **show health threshold cpu**
" " (Quotation Marks)	Used to enclose text strings that contain spaces. The quotation marks are required input on the command line. Example: vlan 2 "new test vlan"

Chassis, Slot, Port convention

OmniSwitch devices consist of one or more chassis, each chassis will have 1 or more slots and each slot will have 1 or more ports. While the number of ports varies depending on the type of switch, the most common number of ports in a chassis are 16, 24, and 48. A Chassis, Slot, port value is specified with a '/' between the chassis/slot/port values e.g.

1/1/13

Refers to chassis 1, slot 1 port 13.

Except for Chassis OmniSwitch devices, most have a single chassis and a single slot, unless configured as a Virtual Chassis (VC). In the typical case, the chassis number is 1 and the slot number is one. If a port number is mentioned without a chassis or slot number, then the chassis number is presumed to be 1 and the slot number is presumed to be 1. Many CLI commands require a chassis, slot and port value. For example:

lanpower {chassis *chassis* **| slot** *chassis/slot* **} service {start | stop}**

In example above the CLI command can either be given a chassis number

lanpower chassis 1 service start

of a chassis/slot value

lanpower slot 1/1 service start

If For example if chassis 2 in an OmniSwitch has 3 slots then the following command would start the lanpower PoE services for all 3 slots in chassis 2

lanpower chassis 2 service start

CLI commands that act on ports must specify which chassis and slot the port belongs. For example, in the command below the user would need to enter the entire chassis/slot/port value

lanpower port *chassis/slot/port* **admin-state {enable | disable}**

Examples of valid commands would be:

lanpower port 1/1/12 **admin-state enable**

lanpower port 1/2/8 **admin-state enable**

lanpower port 2/1/21 **admin-state disable**

Note that many CLI commands can act on more than one port A port range is specified with a dash '-' between the port range. Examples are:

lanpower port 1/1/1-16 **admin-state enable**

lanpower port 1/1/25-48 **admin-state disable**

2 Power over Ethernet (PoE) Commands

The Power over Ethernet (PoE) feature is supported on OmniSwitch PoE-capable switches. Refer to the *OmniSwitch Hardware Users Guide* for further details.

Note on Terminology. There are several general terms used to describe this feature. The terms *Power over Ethernet (PoE)*, *Power over LAN (PoL)*, *Power on LAN (PoL)*, and *Inline Power* are synonymous terms used to describe the powering of attached devices via Ethernet ports. For consistency, this chapter and the *OmniSwitch AOS Release 8 CLI Reference Guide* refer to the feature as *Power over Ethernet (PoE)*.

Additional terms, such as *Powered Device (PD)* and *Power Source Equipment (PSE)* are terms that are not synonymous, but are directly related to PoE.

- *PD* refers to any attached device that uses a PoE data cable as its only source of power. Examples include access points such as IP telephones, Ethernet hubs, wireless LAN stations, etc.
- *PSE* refers to the actual hardware source of the electrical current for PoE (e.g., OmniSwitch PoE-capable switches).

PoE commands documented in this section comply with IEEE 802.3, 802.af, and 802.3at.

MIB information for the PoE commands is as follows:

Filename: ALCATEL-IND1-INLINE-POWER-MIB.mib
Module: alcatelIND1INLINEPOWERMIB

Filename: POWER-ETHERNET-MIB.mib
Module: powerEthernetMIB

A summary of the available commands is listed here:

lanpower service
lanpower port admin-state
lanpower type
lanpower power
lanpower maxpower
lanpower priority
lanpower ni-priority
lanpower priority-disconnect
lanpower power-rule
lanpower power-policy
lanpower class-detection
lanpower capacitor-detection
lanpower usage-threshold
lanpower dynamic-power-mgmt
lanpower update-from
lanpower 4pair
lanpower power-over-hdmi
lanpower 802.3bt
lanpower fpoe
lanpower ppoe
lanpower high-resistance-detection
lanpower trust
show lanpower
show lanpower power-rule
show lanpower power-policy
show lanpower class-detection
show lanpower capacitor-detection
show lanpower priority-disconnect
show lanpower ni-priority
show lanpower usage-threshold
show lanpower firmware-upgrade-status
show lanpower high-resistance-detection
show lanpower status

lanpower service

Activates or stops PoE service on all ports in a specified slot.

lanpower {chassis *chassis* **| slot** *chassis/slot* **} service {start | stop}**

Syntax Definitions

chassis	The chassis on which the PoE power is being turned on or off.
chassis/slot	The slot on which the PoE power is being turned on or off.
start	Activates PoE on all ports in the specified slot.
stop	Turns off PoE on all ports in the specified slot.

Defaults

Power over Ethernet is globally disabled by default.

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Yes

Usage Guidelines

The OmniSwitch 6465 cannot auto-detect the type of power supply connected. The type of power supply connected must be configured so that the system and PoE power information is correctly displayed and utilized. Use the **powersupply type** type command to configure the power supply.

In a single switch configuration, there will only be one chassis and one slot which will be designated as 1/1.

Examples

```
-> lanpower slot 2/1 service start

-> lanpower slot 1/1 service start
-> lanpower chassis 1 service stop
```

Release History

Release 8.1.1; command was introduced.
Release 8.3.1; command was updated.

Related Commands

lanpower port admin-state	Activates or stops PoE service on an individual port.
show lanpower	Displays the PoE status and related statistics for all ports in a specified slot.

MIB Objects

```
alaPethMainPseTable
   alaPethMainPseAdminStatus
```

lanpower port admin-state

Activates or stops PoE service on an individual port.

lanpower port *chassis/slot/port* **admin-state {enable | disable}**

Syntax Definitions

chassis/slot/port	The individual port on which the PoE power is being turned on or off.
enable	Activates PoE on the specified port.
stop	Turns off PoE on the specified port.

Defaults

Power over Ethernet is globally disabled by default.

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Yes

Usage Guidelines

N/A

Examples

```
-> lanpower port 2/1/1 admin-state enable

-> lanpower port 1/1/6-9 admin-state enable
-> lanpower port 1/1/12 admin-state disable
```

Release History

Release 8.1.1; command was introduced.

Related Commands

lanpower service	Activates or stops PoE service on all ports in a specified slot.
show lanpower	Displays the PoE status and related statistics for all ports in a specified slot.

MIB Objects

```
pethPsePortTable
   pethPsePortAdminEnable
```

lanpower power

Specifies the amount of power, in milliwatts, provided for a specific port (when *chassis/slot/port* values are entered) or across all ports in a chassis or slot.

lanpower {chassis *chassis* | **slot** *chassis/slot* | **port** *chassis/slot/port***} power {***milliwatts* | **default***}*

Syntax Definitions

chassis	The chassis on which the port power is being defined.
chassis/slot	The slot on which the port power is being defined.
chassis/slot/port	The specific port on which the port power is being defined.
milliwatts	The maximum amount of power for a specified port or slot. Refer to default and range information below.
default	Sets the power value back to the default setting.

Defaults

Refer to the *OmniSwitch Hardware Users Guide* for default power settings.

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Yes

Usage Guidelines

- This command is not supported when using PoE 3.xx (802.3bt) firmware. Firmware 3.xx automatically enables class-detection and does not allow per port power limits to be configured.
- Using this command does not immediately allocate the power to the slot or port. Any unused power is still available and remains a part of the overall PoE budget.
- To globally specify the amount of inline power available to all ports in a slot, refer to the **lanpower maxpower** command on page 2-8.
- Be sure that the value specified complies with specific power requirements for all attached PDs.
- Note that the power value for the **lanpower power** command is specified in milliwatts (mW); the related command, **lanpower maxpower**, is specified in watts (W).

Examples

```
-> lanpower slot 3/1 power 3200
-> lanpower port 1/1/24 power 25000
-> lanpower port 1/1/7-9 power 20000
-> lanpower chassis 1 power 3000
```

Release History

Release 8.1.1; command was introduced.
Release 8.3.1; command was updated.

Related Commands

lanpower maxpower	Specifies the maximum amount of inline power, in watts, available to all PoE ports in a specified slot.
show lanpower	Displays the PoE status and related statistics for all ports in a specified slot.

MIB Objects

```
alaPethPsePortTable
   alaPethPsePortPowerMaximum
```

lanpower maxpower

Specifies the maximum amount of power, in watts, assigned to a specified slot.

lanpower {chassis *chassis* | **slot** *chassis/slot***} maxpower** {*watts* | **default**}

Syntax Definitions

chassis	The chassis containing PoE ports on which the maximum amount of inline power allowed is being configured.
chassis/slot	The slot containing PoE ports on which the maximum amount of inline power allowed is being configured.
watts	The maximum amount of inline power, in watts, available to all PoE ports in the corresponding slot. Refer to the *OmniSwitch Hardware Users Guide* for additional PoE specifications.
default	Sets the power value back to the default setting.

Defaults

installed power supply	default	range
920W Power Supply (OS6860)	780W	37-780
600W Power Supply (OS6860)	450W	37-450

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Yes

Usage Guidelines

- To specify the maximum amount of inline power available to a single port, refer to the **lanpower power**.
- Note that the power value for the **lanpower maxpower** command is specified in watts (W); the related command, **lanpower power**, is specified in milliwatts (mW).

Examples

```
-> lanpower slot 3/1 maxpower 400
-> lanpower chassis 1 maxpower 400
```

Release History

Release 8.1.1; command was introduced.
Release 8.3.1; command was updated.
Release 8.8R1; **default** parameter added.

Related Commands

lanpower power	Specifies the amount of power, in milliwatts, provided for a specific port (when *chassis/slot/port* values are entered) or across all ports in a slot (if only *slot/port* values are entered).
show lanpower	Displays the PoE status and related statistics for all ports in a specified slot.

MIB Objects

```
alaPethMainPseTable
   alaPethMainPseMaxPower
```

lanpower priority

Specifies PoE power priority level to a port (when *chassis/slot/port* values are entered) or across all ports in a slot (if only *slot/port* values are entered). Levels include critical, high, and low.

lanpower {chassis *chassis* | **slot** *chassis/slot* | **port** *chassis/slot/port***} priority {critical | high | low}**

Syntax Definitions

chassis	The chassis on which the PoE power priority is being set.
chassis/slot	The slot on which the PoE power priority is being set.
chassis/slot/port	The specific port on which the PoE power priority is being set.
critical	Intended for ports that have mission-critical devices attached, and therefore require top (i.e., critical) priority. In the event of a power management issue, power to critical ports is maintained as long as possible.
high	Intended for ports that have important, but not mission-critical, devices attached. If other ports in the chassis have been configured as critical, power to high-priority ports is given second priority to critical devices.
low	Intended for ports that have low-priority devices attached. In the event of a power management issue, power to low-priority ports is interrupted first (i.e., before critical- and high-priority ports).

Defaults

parameter	default
low | high | critical	low

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Yes

Usage Guidelines

For OmniSwitch 6860 switches using 920W power supplies, priority disconnect supports up to a maximum of 780W of PoE power. For switches using 600W power supplies, priority disconnect supports up to a maximum of 450W of PoE power.

Examples

```
-> lanpower slot 2/1 priority low
-> lanpower port 1/1/6 priority critical
```

```
-> lanpower chassis 1 priority low
```

Release History

Release 8.1.1; command was introduced.
Release 8.3.1; command was updated.

Related Commands

lanpower priority-disconnect	Enables or disables the priority disconnect function on all ports in a specified slot.
show lanpower	Displays the PoE status and related statistics for all ports in a specified slot.

MIB Objects

```
pethPsePortTable
   pethPsePortPowerPriority
```

lanpower ni-priority

Specifies power priority level to a Network Interface (NI) module. Levels include critical, high, and low.

lanpower {chassis *chassis* | **slot** *chassis/slot* **} ni-priority {critical | high | low}**

Syntax Definitions

chassis	The chassis on which the NI priority is being set.
chassis/slot	The slot on which the NI priority is being set.
critical	Intended for modules that have mission-critical devices attached, and therefore require top (i.e., critical) priority. In the event of a power management issue, power to critical NIs is maintained as long as possible.
high	Intended for modules that have important, but not mission-critical, devices attached. If other NIs in the chassis have been configured as critical, power to high-priority modules is given second priority to critical devices.
low	Intended for modules that have low-priority devices attached. In the event of a power management issue, power to low-priority modules is interrupted first (i.e., before critical- and high-priority NIs).

Defaults

parameter	default
low | high | critical	low

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
No	No	No	No	No	No	No	No	No	No	Yes

Usage Guidelines

For OmniSwitch 6860 switches using 920W power supplies, priority disconnect supports up to a maximum of 780W of PoE power. For switches using 600W power supplies, priority disconnect supports up to a maximum of 450W of PoE power.

Examples

```
-> lanpower slot 2/1 ni-priority low
-> lanpower chassis 1 ni-priority low
```

Release History

Release 8.3.1; command was introduced.

Related Commands

show lanpower ni-priority	Displays current Network Interface (NI) modules status for a specified chassis or slot.

MIB Objects

N/A

lanpower priority-disconnect

Enables or disables the priority disconnect function on all ports in a specified slot. Priority disconnect is used by the system software in determining whether an incoming PD will be granted or denied power when there are too few watts remaining in the PoE power budget for an additional device.

lanpower {chassis *chassis* | **slot** *chassis/slot***} priority-disconnect {enable | disable}**

Syntax Definitions

chassis	The chassis on which the priority disconnect function is being enabled or disabled.
chassis/slot	The particular slot on which the priority disconnect function is being enabled or disabled.
enable	Enables priority disconnect on a specified port. When this function is enabled *and* a power budget deficit occurs in which there is inadequate power for an incoming device, the system software uses priority disconnect rules to determine whether an incoming device will be granted or denied power.
disable	Disables priority disconnect on a specified port. When priority disconnect is disabled and there is inadequate power in the budget for an additional device, power will be denied to *any* incoming PD, regardless of its priority status.

Defaults

parameter	default
enable | disable	enable

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Yes

Usage Guidelines

For OmniSwitch 6860 switches using 920W power supplies, priority disconnect supports up to a maximum of 780W of PoE power (per power supply installed). For switches using 600W power supplies, priority disconnect supports up to a maximum of 450W of PoE power (per power supply installed).

Examples

```
-> lanpower slot 2/1 priority-disconnect enable
-> lanpower chassis 1 priority-disconnect disable
```

Release History

Release 8.1.1; command was introduced.
Release 8.3.1; command was updated.

Related Commands

lanpower priority	Specifies PoE power priority level to a port (when *chassis/slot/port* values are entered) or across all ports in a slot (if only *slot/port* values are entered).
lanpower update-from	Displays the PoE status and related statistics for all ports in a specified slot.
show lanpower priority-disconnect	Displays current priority disconnect status for a specified slot.

MIB Objects

```
alaPethMainPseTable
   alaPethMainPsePriorityDisconnect
```

lanpower power-rule

Specifies user-defined power rules that can be assigned to PoE ports.

lanpower power-rule *rule-name* **[admin-state {enable | disable}] [power {on | off}] [at {minutes** *mm* **| time** *hh:mm***}] [days {all |** *day [day...]* **| date** *[date...]***} [months {all |** *month***}] [timezone {local-server | utc | originator-server}]**

no lanpower power-rule *rule-name* **[admin-state {enable | disable}] [power {on | off}] [at {minutes** *mm* **| time** *hh:mm***}] [days {all |** *day [day...]* **| date** *[date...]***} [months {all |** *month***}] [timezone {local-server | utc | originator-server}]**

Syntax Definitions

rule-name	A user-defined name (up to 32 characters) for the power rule being configured.
admin-state	Specifies the admin-state for the power rule.
enable	Enables the power rule.
disable	Disables the power rule.
power	Specifies the power status (**on** or **off**) for devices connected to ports within the power rule.
on	Powers on devices on ports for which the rule is assigned.
off	Powers off devices on ports for which the rule is assigned.
at	Activates a a power rule timer. Power rules are triggered on a specified date or day of the week or at a particular time, or after a specified amount of time has elapsed.
minutes	Sets a timer. Power rules will take effect when a specified number of minutes have elapsed.
mm	The number of minutes that will elapse before the power rules take effect.
time	Sets a timer. Power rules will take effect at a specified time of day.
hh:mm	The time of day that the power rule will take effect.
days	Specifies that the power rule will take effect on a particular day of the week.
all	Specifies that the power rule will take effect on all days of the week (Monday through Sunday).
day	Specifies a particular day of the month or week the power rule will take effect. When entering a day of the month, enter one or more numbers from **1** to **31**. When entering a day of the week, use three-digit abbreviations (e.g., **mon**, **tue**, **wed**, **thu**, **fri**, **sat** and **sun**). Any combination of days may be entered in any order. Refer to command line examples for more information.
month	Specifies that the power rule will take effect during a particular month.
all	Specifies that the power rule will take effect during all months of the year (January through December).

month	Specifies a particular month of the year the power rule will take effect. When entering a month, use three-digit abbreviations (e.g., **jan**, **feb**, **mar**, **apr**, **may**, **jun**, **jul**, **aug**, **sep**, **oct**, **nov** and **dec**). Any combination of months may be entered in any order. Refer to command line examples for more information.
timezone	Sets a timezone in which timer-based power rules will take effect.
local-server	Time as specified by a local server.
utc	Specifies that timer-based rules fall under Universal Time Coordinated (UTC) time.
originator-server	Time as specified via the network.

Defaults

N/A

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Yes

Usage Guidelines

- Before a power rule can take effect, the rule must first be assigned to particular slots or ports via the **lanpower power-policy** command.
- Timers are created based on the current system time. If the system time is changed the rules must be recreated.

Examples

```
->lanpower power-rule RuleTest2 admin-state enable power on at minutes 10 days fri
thu tue months all timezone utc
-> lanpower power-rule new power on at time 18:30 days all months all timezone utc
->lanpower power-rule OutgoingPDs power off at time 6:00 days 1 2 3 6 9 12 31
months all timezone utc
-> lanpower power-rule NewRule admin-state enable power off at minutes 4 days all
months all timezone utc
```

Release History

Release 8.1.1; command was introduced.

Related Commands

lanpower power-policy	Allows users to bind existing power rules to particular slots or ports.
show lanpower power-rule	Displays current PoE power rule settings.
show lanpower power-policy	Displays existing power policies assigned to a slot, port or rule.

MIB Objects

```
alaPethPowerRuleTable
   alaPethPowerRuleAdminStatus
   alaPethPowerRulePowerStatus
   alaPethPowerRuleAtMinute
   alaPethPowerRuleAtTime
   alaPethPowerRuleDaysOfMonth
   alaPethPowerRuleDaysOfWeek
   alaPethPowerRuleMonths
   alaPethPowerRuleTimezone
   alaPethPowerRuleRowStatus
```

lanpower power-policy

Allows users to bind existing power rules to particular slots or ports.

lanpower [slot *chassis/slot* | **port** *chassis/slot/port-port***] power-policy** *policy-name* **[power-rule** *rule-name***]**

no lanpower power-policy *name*
no lanpower [slot *chassis/slot* | **port** *chassis/slot/port-port***] power-policy**

Syntax Definitions

chassis/slot	The slot on which the power policy (with its associated power rule) is being assigned. This syntax is used the first time the **lanpower power-policy** command is entered, where a policy is being assigned to a particular slot. See Usage Guidelines below for more information.
chassis/slot/port-port	The specific slot on which the power policy (with its associated power rule) is being assigned. Port values may be entered as a single port or range of ports. This syntax is used the first time the **lanpower power-policy** command is entered, where a policy is being assigned to a particular slot. See Usage Guidelines below for more information
policy-name	A user-defined name (up to 32 characters) for the power policy being configured (or assigned to an existing power rule).
rule-name	This syntax is used the second time the **lanpower power-policy** command is entered, where a policy is being assigned to an existing power rule. See Usage Guidelines below for more information.

Defaults

N/A

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Yes

Usage Guidelines

- One or more power rules must be created before using the **lanpower power-policy** command. For information on creating power rules, see the **lanpower power-rule** command on page 2-16.
- Using the **lanpower power-policy** command is a two-step process. First, use the command to assign the policy to specific slots or ports. For example:

```
-> lanpower slot 1/1 power-policy NewPolicy
-> lanpower port 1/1/23 power-policy NewPolicy
```

```
-> lanpower port 1/1/1-12 power-policy NewPolicy
```

Next, run the command again to assign the policy (with its associated slots or ports) to an existing power rule. For example:

```
-> lanpower power-policy NewPolicy power-rule NewRule
```

- When assigning a policy to a slot or port, be sure to use the syntax, **"slot"** or **"port",** before the *chassis/slot* or *chassis/slot/port* values in the command line. Refer to the examples below for more information.

Examples

```
-> lanpower slot 1/1 power-policy NewPolicy
-> lanpower port 1/1/23 power-policy NewPolicy
-> lanpower power-policy NewPolicy power-rule NewRule
-> no lanpower port 1/1/23 power-policy
-> no lanpower power-policy NewPolicy
```

Release History

Release 8.1.1; command was introduced.
Release 8.7R2; **port** and **slot** options added for use with the **no** parameter.

Related Commands

lanpower power-rule	Specifies user-defined power rules that can be assigned to PoE ports.
show lanpower power-rule	Displays current PoE power rule settings.
show lanpower power-policy	Displays existing power policies assigned to a slot, port or rule.

MIB Objects

```
alaPethPowerPolicyTable
   alaPethPowerPolicyRowStatus
alaPethPowerPortTable
   alaPethPowerPortPolicyName
   alaPethPowerPortRowStatus
```

lanpower class-detection

Enables or disables class detection of attached devices. When class detection is enabled, attached devices will automatically be limited to their class power, regardless of port power configuration.

lanpower {chassis *chassis* | **slot** *chassis/slot***} class-detection {enable | disable}**

Syntax Definitions

chassis	The chassis on which class detection is being enabled or disabled.
chassis/slot	The particular slot on which class detection is being enabled or disabled.
enable	Enables class detection on the specified slot.
disable	Disables class detection on the specified slot.

Defaults

parameter	default
enable | disable	disable

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
No	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Yes

Usage Guidelines

- Although class-detection is disabled by default, the OmniSwitch 6860 still provides power to incoming PDs (if available in the power budget). However, to strictly enforce class detection as specified in the 802.3at standard, class detection must be enabled using the **lanpower slot class-detection** command.
- Enabling class detection will reset all PoE ports on the chassis.

Examples

```
-> lanpower slot 1/1 class-detection enable
-> lanpower chassis 1 class-detection disable
```

Release History

Release 8.1.1; command was introduced.
Release 8.3.1; command was updated.

Related Commands

show lanpower class-detection	Displays class detection status on a specified slot.

MIB Objects

```
alaPethMainPseTable
   alaPethMainPseClassDetection
```

lanpower capacitor-detection

Enables or disables the capacitor detection method.

lanpower {chassis *chassis* | **slot** *chassis/slot* | **port** *chassis/slot/port[-port]***} capacitor-detection {enable | disable}**

Syntax Definitions

chassis	The chassis on which detection is being configured.
chassis/slot	The slot on which detection is being configured.
chassis/slot/port-port	The port or range of ports on which detection is being configured.
enable	Enables the capacitor detection method on the specified slot.
disable	Disables the capacitor detection method on the specified slot.

Defaults

parameter	default
enable | disable	disable

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Yes

Usage Guidelines

The capacitor detection method should only be enabled if there are legacy IP phones attached to the corresponding slot—this feature is *not* compatible with IEEE specifications. Please contact your Alcatel-Lucent Enterprise sales engineer or Customer Support representative to find out which Alcatel-Lucent Enterprise IP phones models need capacitive detection enabled.

Examples

```
-> lanpower slot 3/1 capacitor-detection enable
-> lanpower chassis 1 capacitor-detection disable
```

Release History

Release 8.1.1; command was introduced.
Release 8.3.1; command was updated.
Release 8.8R1; **port** parameter added.

Related Commands

show lanpower capacitor-detection	Displays capacitor detection status on a specified slot.

MIB Objects

```
alaPethMainPseTable
   alaPethMainPseCapacitorDetect
```

lanpower usage-threshold

Tells the switch to watch for a user-defined, slot-wide threshold for PoE power usage, in percent. When the usage threshold is reached or exceeded, a notification is sent to the user.

lanpower {chassis *chassis* | **slot** *chassis/slot***} usage-threshold** *num*

Syntax Definitions

chassis	The chassis for which usage threshold monitoring is being set.
chassis/slot	The slot for which usage threshold monitoring is being set.
num	The percentage of allowed usage from attached PoE devices before a notification is sent to the user.

Defaults

parameter	default
num	99

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Yes

Usage Guidelines

The **lanpower slot usage-threshold** does not affect the amount of PoE power allocated to a particular slot. The command is a monitoring method that tells the switch to send a “specified usage exceeded” notification (i.e., trap) only when a specified percentage has been reached.

Examples

```
-> lanpower slot 1/1 usage-threshold 50
-> lanpower chassis 1 usage-threshold 99
```

Release History

Release 8.1.1; command was introduced.
Release 8.3.1; command was updated.

Related Commands

show lanpower usage-threshold	Displays current usage threshold, in percent.

MIB Objects

```
pethMainPseTable
   pethMainPseUsageThreshold
```

lanpower dynamic-power-mgmt

Enables dynamic power management for a chassis or slot.

lanpower {chassis *chassis* | **slot** *chassis/slot***} dynamic-power-management {enable | disable}**

Syntax Definitions

chassis	The chassis on which dynamic power management is being enabled or disabled.
chassis/slot	The particular slot on which dynamic power management is being enabled or disabled.
enable	Enables dynamic power management on the specified chassis or slot.
disable	Disables dynamic power management on the specified chassis or slot.

Defaults

parameter	default
enable | disable	disable

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
No	No	No	No	No	No	No	No	No	No	Yes

Usage Guidelines

- Enabling this feature allows the unused allocated PoE power of an NI to be allocated to other NIs.
- Slot ranges are supported in the command line syntax.

Examples

```
-> lanpower slot 1/1 dynamic-power-mgmt enable
-> lanpower chassis 1 dynamic-power-mgmt disable
```

Release History

Release 8.3.1; command was introduced.

MIB Objects

```
N/A
```

lanpower update-from

Updates the PoE microcontroller firmware.

lanpower slot {*chassis/slot* | **all**} **update-from** *filename*

Syntax Definitions

chassis/slot	The slot to be updated.
all	Update all the chassis in a virtual chassis.
filename	The file name of the PoE firmware.

Defaults

N/A

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	No	No	No	Yes	Yes	Yes	No	No	No	Yes

Usage Guidelines

- The binary file must be placed in the ***/flash*** directory of the Master.
- Once started, console messages will be displayed during the update procedure which may take up to 10 minutes.
- The lanpower service must be disabled during the update and minimal load should be placed on the switch. The update process must be allowed to finish prior to unplugging or configuring the units.

Examples

```
-> lanpower slot 1/1 update-from poe_binary_version.bin
```

Release History

Release 8.1.1; command was introduced.

Related Commands

show lanpower firmware-upgrade-status Displays current PoE firmware update status.

MIB Objects

N/A

lanpower 4pair

Configures 2-pair or 4-pair PoE mode.

lanpower {slot *chassis/slot* | **port** *chassis/slot/port-port*} **4pair {enable | disable}**

Syntax Definitions

chassis/slot	The slot on which to configure the PoE mode.
chassis/slot/port-port	The port(s) on which to configure the PoE mode.

Defaults

parameter	default
enable | disable	enabled

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
6360-P48X	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Yes

Usage Guidelines

- This command is applicable for 4-pair high power PoE ports to deliver 60 watts or more.
- When 4-pair mode is enabled the switch will consider Alt-A and Alt-B pairs for PoE.
- When 4-pair mode is disabled the switch will only consider Alt-A pairs for PoE.
- When 4-pair mode is disabled the maximum PoE power for the port is 30W.

Examples

```
-> lanpower slot 1/1 4pair enable
```

Release History

Release 8.4.1.R03; command was introduced.

Related Commands

show lanpower	Displays the PoE status and related statistics for all ports in a specified slot.

MIB Objects

```
alaPethMainPseTable
   alaPethPsePort4PairStatus
```

lanpower power-over-hdmi

Configures power over HDMI (PoH).

lanpower {slot *chassis/slot* | **port** *chassis/slot/port-port*} **power-over-hdmi {enable | disable}**

Syntax Definitions

chassis/slot	The slot on which to configure PoH.
chassis/slot/port-port	The port(s) on which to configure PoH.

Defaults

parameter	default
enable | disable	OS6860E-P24Z8 - enabled All other platforms - disabled

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
No	No	No	No	Yes	No	No	No	No	No	No

Usage Guidelines

- This command is only supported on OS6860E models and only on 4-pair HPoE ports.
- This command is used for supporting IEEE802.3bt specific Aruba AP5xx access points on OS6860E 4-pair ports.

Examples

```
-> lanpower slot 1/1 power-over-hdmi enable
-> lanpower port 1/1/1 power-over-hdmi enable
```

Release History

Release 8.6R2; command was introduced.

Related Commands

show lanpower	Displays the PoE status and related statistics for all ports in a specified slot.

MIB Objects

```
alaPethPowerPortTable
   alaPethPsePortPowerOverHdmi
```

lanpower 802.3bt

Enables IEEE 802.3bt functionality.

lanpower {slot *chassis/slot* | **port** *chassis/slot/port-port*} **802.3bt {enable | disable}**

Syntax Definitions

chassis/slot/port	The slot or port on which to enable or disable 802.3bt.
chassis/slot/port-port	The port(s) on which to enable or disable 802.3bt.

Defaults

parameter	default
enable | disable	enable

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
No	Yes	Yes	No	No	No	No	No	No	No	No

Usage Guidelines

This command can only be executed when the lanpower service is stopped.

Examples

```
-> lanpower slot 1/1 802.3bt enable
-> lanpower port 1/1/1 802.3bt enable
```

Release History

Release 8.6R2; command was introduced.

Related Commands

show lanpower	Displays the PoE status and related statistics for all ports in a specified slot.

MIB Objects

```
alaPethMainPseTable
   alaPethMainPseDot3bt
```

lanpower fpoe

Enables fast PoE functionality.

lanpower {slot *chassis/slot*} **fpoe {enable | disable}**

Syntax Definitions

chassis/slot	The slot on which to enable or disable fast PoE.

Defaults

parameter	default
enable | disable	disable

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	No	No	No	Yes	Yes	Yes	No	No	No	No

Usage Guidelines

- Fast PoE can be used to provide PoE power within a few seconds after powering on the chassis.
- Factory default switches that don't have any PoE configuration must have an initial PoE configuration completed.
- The PoE configuration cannot be modified until the switch is up and the PoE module is completely initialized.
- LLDP-based PoE devices will not function as expected until the switch has completed its bootup and the switch is in a state to respond to LLDP requests.
- When Fast PoE is enabled the vcboot.cfg should not be deleted or manually edited.
- If Fast PoE is disabled all PDs will reset due to the PoE controller having to be reconfigured.
- FPGA/CPLD upgrade may be required. Refer to the release notes.

Examples

```
-> lanpower slot 1/1 fpoe enable
```

Release History

Release 8.7R1; command was introduced.

Related Commands

show lanpower	Displays the PoE status and related statistics for all ports in a specified slot.

MIB Objects

```
alaPethMainPseTable
   alaPethMainPseFastPoE
```

lanpower ppoe

Enables perpetual PoE functionality.

lanpower {slot *chassis/slot*} **ppoe {enable | disable}**

Syntax Definitions

chassis/slot	The slot on which to enable or disable perpetual PoE.

Defaults

parameter	default
enable | disable	disable

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	No	No	No	Yes	Yes	Yes	No	No	No	No

Usage Guidelines

- This feature allows the switch to provide uninterrupted power to connected power device (PD) even when the switch is rebooting.
- When Perpetual PoE is enabled the vcboot.cfg should not be deleted or manually edited.
- FPGA/CPLD upgrade may be required. Refer to the release notes.

Examples

```
-> lanpower slot 1/1 ppoe enable
```

Release History

Release 8.7R1; command was introduced.

Related Commands

show lanpower	Displays the PoE status and related statistics for all ports in a specified slot.

MIB Objects

```
alaPethMainPseTable
   alaPethMainPsePerpetualPoE
```

lanpower high-resistance-detection

Configures high resistance detection.

lanpower {slot *chassis/slot*} **high-resistance-detection {enable | disable}**

Syntax Definitions

chassis/slot	The slot on which to enable or disable high resistance detection.

Defaults

parameter	default
enable | disable	disable

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Yes

Usage Guidelines

- This capability can be enabled to support the two-port PoE capability on APs with two PoE ports (i.e. AP225). This capability enables the switch to support the appropriate detection range and recognize the AP as a PD.
- The AP will be powered in an active/standby mode, meaning only one port of the AP will be powered at a time.
- Only two-pair PoE will be supported when this feature is enabled, even on ports connected with a 4-pair Ethernet cable.
- The capability of PSE-to-PSE protection function is reduced when this feature is enabled. It is recommended to disable PoE on ports that do not have PDs connected.
- Enabling this feature will cause the PoE functionality to restart on the OmniSwitch. Additionally, this functionality does not follow the PoE IEEE standards.

Examples

```
-> lanpower slot 1/1 high-resistance-detection enable
```

Release History

Release 8.7R1; command was introduced.

Related Commands

show lanpower high-resistance-detection Displays the high resistance detection status.

MIB Objects

```
alaPethMainPseTable
   alaPethMainPseHighResistanceDetection
```

lanpower trust

Configures a port as trusted so that it can be powered down through 802.3bt LLDP tlv.

lanpower trust {slot *chassis/slot*| **port** *chassis/slot/port-port*} **trust {enable | disable}**

Syntax Definitions

chassis/slot	The slot on which to enable or disable port trust.
chassis/slot/port-port	The port(s) on which to enable or disable port trust.

Defaults

parameter	default
enable | disable	disable

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	Yes	Yes	No	No	Yes	Yes	No	No	No	No

Usage Guidelines

In the 802.3BT LLDP standard the tlv has an option to power down the PSE port through LLDP for a specific time or indefinitely if the port is set as trusted.

Examples

```
-> lanpower port 1/1/1 trust enable
```

Release History

Release 8.7R1; command was introduced.

Related Commands

show lanpower	Displays the PoE status and related statistics for all ports in a specified slot.

MIB Objects

```
alaPethPsePortTable
   alaPethPsePortTrusted
```

show lanpower

Displays the PoE status and related statistics for all ports in a specified slot.

show lanpower {slot *chassis/slot* **[port-config]** | **chassis** *chassis* **port-config}**

Syntax Definitions

chassis	The virtual chassis ID for which current inline power status and related statistics are to be displayed.
slot	The slot for which current inline power status and related statistics are to be displayed.
port-config	Displays detailed port configuration information and settings.

Defaults

N/A

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	No	No	No	Yes	Yes	No	No	No	No	No

Usage Guidelines

N/A

Examples

```
-> show lanpower slot 1/1
Port    Maximum(mW) Actual Used(mW)    Status       Priority    On/Off    Class    Type
------+-----------+---------------+-------------+---------+--------+-------+-------
 1/1/1       30000          7000       Powered On     Low       ON         *
 1/1/2       30000             0       Powered Off    Low       OFF        *
 1/1/3       30000             0       Powered Off    Low       OFF        *
 1/1/4       30000             0       Powered Off    Low       OFF        *
 1/1/5       30000          4100       Powered On     Low       ON         *
 1/1/6       30000             0       Powered Off    Low       OFF        *
 1/1/7       30000             0       Searching      Low       ON         *
 1/1/8       30000             0       Powered Off    Low       OFF        *

ChassisId 1 Slot 1 Max Watts 130
11 Watts Actual Power Consumed
119 Watts Actual Power Budget Remaining
130 Watts Total Power Budget Available
1 Power Supply Available
'*' appending port maxpower indicates 4pair port operating in 2pair modeBPS power:
```

```
Not Available
```

output definitions

Port	A PoE port for which current status and related statistics are being displayed.
Maximum (mW)	The current maximum amount of power available to the corresponding PoE port, in milliwatts. For more information on this parameter, including default values and changing the settings, refer to the **lanpower power** command.
Actual Used (mW)	The actual amount of power being used by an attached device (if applicable), in milliwatts. If no device is attached to the corresponding port, this row displays a value of 0.
Status	Displays the port's current operational status. Options include **Powered On**, **Powered Off**, **Searching**, **Fault**, **Deny** and **Test**. **Powered On** indicates that PoE power activation is complete and the attached device is receiving power. **Powered Off** indicates that no PoE device is attached and/or the port is not receiving PoE power. **Searching** indicates that PoE activation has started and a powered device PD has been detected, but activation or class detection is incomplete. **Fault** indicates that PoE activation or class detection has failed. **Deny** indicates that PoE power management has denied power to the port due to priority disconnect or over subscription. **Test** indicates that the port has been forced on and will remain on until it is forced off by RTP functions.
Priority	The current priority level for the corresponding PoE port. Options include **Critical**, **High**, and **Low**. **Critical** should be reserved for ports that have mission-critical devices attached, and therefore require top (i.e., critical) priority. In the event of a power management issue, inline power to critical ports is maintained as long as possible. **High** indicates ports that have important, but not mission-critical, devices attached. If other ports in the chassis have been configured as critical, inline power to high-priority ports is given second priority. **Low** priority is for ports that have low-priority devices attached. In the event of a power management issue, inline power to low-priority ports is interrupted first (i.e., before critical and high-priority ports). The default value is Low. Priority levels can be changed using the **lanpower priority** command.
On/Off	Displays whether a port has been manually turned on or off by the user. **ON** indicates that the port has been turned on by the user via the **lanpower service** command. **OFF** is the default value and can also indicate that the port has been turned off by the user via the **lanpower service** command.
Class	PoE class detected on the attached Powered Device. See the **lanpower class-detection** command on page 2-21 for more information.
Type	A user-defined name port type (i.e., text string) for the port. See the **lanpower type** command on page 2-6 for more information.
Max Watts	The maximum watts available to the corresponding slot. The maximum watts value for a slot can be changed using the **lanpower maxpower** command.

output definitions (continued)

Actual Power Consumed	The amount of power being used by attached PoE devices.
Actual Power Budget Remaining	The amount of power budget remaining for PoE. If the total power budget remaining is exceeded, a power error will occur and the switch's chassis management software will begin shutting down power to PoE ports according to their priority levels.
Total Power Budget Available	The total amount of power budget available for PoE.
Power Supplies Available	The number of power supplies currently installed and operating in the switch.
*****	An asterisk indicates a 4-pair PoE port is operating in 2-pair mode.

Release History

Release 8.1.1; command was introduced.
Release 8.8R1; **port-config** parameter added.

Related Commands

N/A

MIB Objects

```
alaPethPsePortPowerActual
alaPethPsePortPowerMaximum
alaPethPsePortPowerStatus
pethPsePortPowerPriority
pethPsePortAdminEnable
pethPsePortPowerClass
```

show lanpower power-rule

Displays current PoE power rule settings.

show lanpower power-rule [*name***]**

Syntax Definitions

name	The name of an existing power rule.

Defaults

N/A

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	No	No	No	Yes	Yes	No	No	No	No	No

Usage Guidelines

Entering the **show lanpower power-rule** command without the *name* string provides top-level information for all existing power rules. To view detailed information for a particular rule (e.g., timer and timezone settings, etc.), specify the *name* string in the command line.

Examples

```
-> show lanpower power-rule
Power-Rule                              Admin-state    Power
------------------------------------------------+--------------------------------+------------------------------
test                                     Disabled       Off


-> show lanpower power-rule test
                Power-Rule                  :     test
                Admin-state                 :     Disabled
                Power                       :     Off
                At HH:MM                    :     00:00
                Day-of-Week                 :     All
                Month-of-Year               :     All
                Timezone                    :     Local
```

output definitions

Power-Rule	The name(s) of existing PoE power rule(s).
Admin-state	The port PoE status assigned to the rule. Refer to page 2-16 for more information.

output definitions (continued)

Power	The PoE power status assigned to the rule. Refer to page 2-16 for more information.
At HH:MM	The time of day the power rule takes effect. Refer to page 2-16 for more information.
Day-of-Week	The day of the week the power rule takes effect. Refer to page 2-17 for more information.
Month-of-Year	The month of year the power rule takes effect.Refer to page 2-17 for more information.
Timezone	The timezone under which the power rule takes effect. Options include **local-server**, **originator-server** and **utc**. Refer to page 2-17 for more information.

Release History

Release 8.1.1; command was introduced.

Related Commands

lanpower power-rule	Specifies user-defined power rules that can be assigned to PoE ports.

MIB Objects

N/A

show lanpower power-policy

Displays existing power policies assigned to a slot, port or rule.

show lanpower power-policy [*policy-name* **slot** | *policy-name* **power-rule** | *policy-name* **port**]

Syntax Definitions

policy-name	The text string for an existing power policy.

Defaults

N/A

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	No	No	No	Yes	Yes	No	No	No	No	No

Usage Guidelines

Entering the **show lanpower power-policy** command without the *policy-name* string provides top-level information for all existing policies, including associated power rules (if any). To view detailed information for a particular policy, specify the *policy-name* string in the command line, along with the policy's associated slot, port or rule. See Examples below for additional information.

Examples

```
-> show lanpower power-policy
Power-Policy name                    Power-rules
-------------------------------------------------+-------------------------------------------------------------------
Mar25                                 RuleTest2

-> show lanpower power-policy Mar25 power-rule
             Power-Policy name             : Mar25
                   Power-rules             : RuleTest2
```

output definitions

Power-Policy name	The names of existing PoE power policies.
Power-rules	The power rules associated with the existing power policies.

Release History

Release 8.1.1; command was introduced.

Related Commands

lanpower power-policy	Allows users to bind existing power rules to particular slots or ports.

MIB Objects

N/A

show lanpower class-detection

Displays class detection status on a specified slot.

show lanpower {chassis *chassis* | **slot** *chassis/slot* **} class-detection**

Syntax Definitions

chassis	The chassis for which class detection is being displayed.
chassis/slot	The slot for which class detection is being displayed.

Defaults

N/A

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	No	No	No	Yes	Yes	No	No	No	No	No

Usage Guidelines

- Although class-detection is disabled by default, the OmniSwitch 6860 still provides power to incoming PDs (if available in the power budget). However, to strictly enforce class detection as specified in the 802.3at standard, class detection must be enabled using the **lanpower slot class-detection** command.
- Enabling class detection will reset all PoE ports on the chassis.

Examples

```
-> show lanpower slot 1/1 class-detection
Class Detection disabled on ChassisId 1 Slot 1
```

Release History

Release 8.1.1; command was introduced.
Release 8.3.1; command was updated.

Related Commands

lanpower class-detection	Enables or disables class detection of attached devices.

MIB Objects

N/A

show lanpower capacitor-detection

Displays capacitor detection status on a specified slot.

show lanpower {chassis *chassis* | **slot** *chassis/slot* **} capacitor-detection**

Syntax Definitions

chassis	The chassis for which capacitor detection is being displayed.
chassis/slot	The slot for which capacitor detection is being displayed.

Defaults

N/A

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	No	No	No	Yes	Yes	No	No	No	No	No

Usage Guidelines

N/A

Examples

```
-> show lanpower slot 1/1 capacitor-detection
Capacitor Detection disabled on ChassisId 1 Slot 1
```

Release History

Release 8.1.1; command was introduced.
Release 8.3.1; command was updated.

Related Commands

lanpower capacitor-detection	Enables or disables the capacitor detection method.

MIB Objects

N/A

show lanpower priority-disconnect

Displays current priority disconnect status for a specified slot.

show lanpower {chassis *chassis* | **slot** *chassis/slot* **} priority-disconnect**

Syntax Definitions

chassis	The chassis on which priority disconnect status is being displayed.
chassis/slot	The particular slot on which priority disconnect status is being displayed.

Defaults

N/A

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	No	No	No	Yes	Yes	No	No	No	No	No

Usage Guidelines

For OmniSwitch 6860 switches using 920W power supplies, priority disconnect supports up to a maximum of 780W of PoE power (per power supply installed). For switches using 600W power supplies, priority disconnect supports up to a maximum of 450W of PoE power (per power supply installed).

Examples

```
-> show lanpower slot 1/1 priority-disconnect
Priority Disconnect enabled on ChassisId 1 Slot 1
```

Release History

Release 8.1.1; command was introduced.
Release 8.3.1; command was updated.

Related Commands

lanpower priority-disconnect	Enables or disables the priority disconnect function on all ports in a specified slot.

MIB Objects

N/A

show lanpower ni-priority

Displays current Network Interface (NI) modules status for a specified chassis or slot.

show lanpower {chassis *chassis* | **slot** *chassis/slot* **} ni-priority**

Syntax Definitions

chassis	The chassis on which NI priority is being displayed.
chassis/slot	The particular slot on which NI priority is being displayed.

Defaults

N/A

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	No	No	No	Yes	Yes	No	No	No	No	No

Usage Guidelines

For OmniSwitch 6860 switches using 920W power supplies, priority disconnect supports up to a maximum of 780W of PoE power (per power supply installed). For switches using 600W power supplies, priority disconnect supports up to a maximum of 450W of PoE power (per power supply installed).

Examples

```
-> show lanpower slot 1/1 priority-disconnect
Priority Disconnect enabled on ChassisId 1 Slot 1
```

Release History

Release 8.3.1; command was introduced.

Related Commands

lanpower ni-priority	Specifies power priority level to a Network Interface (NI) module. Levels include critical, high, and low.

MIB Objects

N/A

show lanpower usage-threshold

Displays current usage threshold, in percent.

show lanpower {chassis *chassis* | **slot** *chassis/slot* **} usage-threshold**]

Syntax Definitions

chassis	The chassis on which priority disconnect status is being displayed.
chassis/slot	The particular slot on which priority disconnect status is being displayed.

Defaults

N/A

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	No	No	No	Yes	Yes	No	No	No	No	No

Usage Guidelines

N/A

Examples

```
-> show lanpower slot 1/1 usage-threshold
Usage Threshold 99% on ChassisId 1 Slot 1
```

Release History

Release 8.1.1; command was introduced.
Release 8.3.1; command was updated.

Related Commands

lanpower usage-threshold	Sets a slot-wide threshold for PoE power usage, in percent.

MIB Objects

N/A

show lanpower firmware-upgrade-status

Displays the PoE firmware update status.

show lanpower slot {*chassis/slot* **| all} firmware-upgrade-status**

Syntax Definitions

chassis/slot	Display the update status for a slot.
all	Display the update status for all chassis.

Defaults

N/A

Platforms Supported

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	No	No	No	Yes	Yes	Yes	No	No	No	Yes

Usage Guidelines

This command can be used to display the update progress from a remote session such as Telnet or SSH.

Examples

```
-> show lanpower slot all firmware-upgrade-status
Chas/Slot  FW-Upgrade Status  FW Upgrade %    FW Rev    Fail Reason
----------+-----------------+--------------+--------+----------------------------
 1/1         SUCCESS             0              352       FIRMWARE UPGRADED
```

Release History

Release 8.1.1; command was introduced.

Related Commands

lanpower update-from	Updates the PoE microcontroller firmware.

MIB Objects

N/A

show lanpower high-resistance-detection

Displays the high resistance detection configuration.

show lanpower slot *chassis/slot* **high-resistance-detection**

Syntax Definitions

chassis/slot	Display the status for a slot.

Defaults

N/A

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Yes

Usage Guidelines

N/A

Examples

```
-> show lanpower slot 1/1 high-resistance-detection
Chas/Slot high-resistance-detection
------------+-------------------------------------------------------------
  1/1      enable
```

Release History

Release 8.7R1; command was introduced.

Related Commands

lanpower high-resistance-detection	This command is used to enable/disable high resistance detection.

MIB Objects

```
N/A
```

show lanpower status

Displays the running lanpower configuration.

show lanpower slot *chassis/slot* **status**

Syntax Definitions

chassis/slot	Display the status for a slot.

Defaults

N/A

Platforms Supported

This command is supported on the following OmniSwitch platforms:

6360	6465	6560	6570M	6860	6860N	6865	6900	6900 V72/C32	6900 X48C6/T48C6/ X48C4E/V48C8/ C32E/T24C2/ X24C2	9900
Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Yes

Usage Guidelines

N/A

Examples

```
-> show lanpower slot 1/1 status
Chas/Slot Status     Init Status      8023BT       Priority    Capacitor   FPoE      PPoE       F/W Rev
                                      Supported    Disconnect   Detection
--------+--------+--------------+------------+-------------+------------+----------+---------+-----------
  1/1     enable    initialized    enable     disable         disable      disable    enable   352


Not Available
```

output definitions

Chas/Slot	Chassis/slot.
Status	The lanpower status.
Init Status	The lanpower initialization status.
8023BT Supported	802.3bt support status.
Priority Disconnect	Priority disconnect status.
Capacitor Detection	Capacitor detection status.
FPoE	Fast PoE status.
PPoE	Perpetual PoE status.
F/W Rev	Firmware revision.

Release History

Release 8.7R2; command was introduced.

Related Commands

show lanpower	Displays the PoE status and related statistics for all ports in a specified slot.

MIB Objects

```
alaPethMainPseAdminStatus
alaPethMainPsePriorityDisconnect
alaPethMainPseCapacitorDetect
alaPethMainPseFastPoE
alaPethMainPsePerptualPo
```