

Network Switch CLI Guide

Green Ethernet

Contents

| Green Ethernet | 3 |
|---|---|
| green-ethernet energy-detect (global) | 3 |
| green-ethernet energy- detect (interface) | 3 |
| green-ethernet short-reach (global) | 4 |
| green-ethernet short-reach (interface) | 4 |
| green-ethernet power-meter reset | 5 |
| show green-ethernet | 5 |

Green Ethernet

green-ethernet energy-detect (global)

| Syntax | green-ethernet energy-detect no green-ethernetenergy-detect | | | | | |
|--------------------------|--|--|--|--|--|--|
| Parameters | This command has no arguments or keywords. | | | | | |
| Default Configuration | Disabled. | | | | | |
| Command Mode | Global configuration mode. | | | | | |
| Usage | To enable Green-Ethernet Energy-Detect mode globally, use the green-ethernet energy-detect Global Configuration mode command. To disable this feature, use the no form of this command. | | | | | |
| Example | switchxxxxx(config)#green-ethernet energy-detect | | | | | |
| User Guideline | - | | | | | |

green-ethernet energy- detect (interface)

| Syntax | green-ethernet energy-detect no green-ethernet energy-detect | | | | | |
|--------------------------|---|--|--|--|--|--|
| Parameters | This command has no arguments or keywords. | | | | | |
| Default Configuration | Enabled. | | | | | |
| Command Mode | Interface (Ethernet) Configuration mode. | | | | | |
| Usage | Use the green-ethernet energy-detect Interface configuration mode command to enable Green Ethernet-Energy-Detect mode on a port. Use the no form of this command, to disable it on a port. | | | | | |
| Example | <pre>switchxxxxx(config)#interface te1/0/1 switchxxxxx(config-if)#green-ethernet energy-detect</pre> | | | | | |
| User Guideline | Energy-Detect only works on copper ports. When a port is enabled for auto selection, copper/fiber Energy-Detect cannot work. It takes the PHY ~5 seconds to fall into sleep mode when the link is lost after normal operation. | | | | | |

green-ethernet short-reach (global)

| Syntax | green-ethernet short-reach no green-ethernet short-reach | | | | | |
|--------------------------|--|--|--|--|--|--|
| Parameters | This command has no arguments or keywords. | | | | | |
| Default Configuration | Disabled. | | | | | |
| Command Mode | Global Configuration mode. | | | | | |
| Usage | Use the green-ethernet short-reach Global Configuration mode command to enable Green-Ethernet Short-Reach mode globally. Use the no form of thiscommand to disabled it. | | | | | |
| Example | switchxxxxx(config)#green-ethernet short-reach | | | | | |
| User Guideline | - | | | | | |

green-ethernet short-reach (interface)

| Syntax | green-ethernet short-reach no green-ethernet short-reach |
|--------------------------|--|
| Parameters | This command has no arguments or keywords. |
| Default Configuration | Disabled. |
| Command Mode | Interface (Ethernet) Configuration mode. |
| Usage | Use the green-ethernet short-reach Interface Configuration modecommand to enable green-ethernet short-reach mode on a port. Use the no form of this command to disable it on a port. |
| Example | <pre>switchxxxxx(config)#interface te1/0/1 switchxxxxx(config-if)#green-ethernet short-reach</pre> |
| User Guideline | The VCT length check can be performed only on a copper port operating at a speed of 1000 Mbps. If the media is not copper or the link speed is not 1000Mbps Short-Reach mode is not applied. When the interface is set to enhance mode, after the VCT length check has completed and set the power to low, an active |



green-ethernet power-meter reset

enabled.

| Syntax | green-ethernet power-meter reset | | | | | |
|--------------------------|--|--|--|--|--|--|
| Parameters | This command has no arguments or keywords. | | | | | |
| Default Configuration | None. | | | | | |
| Command Mode | Privileged EXEC mode. | | | | | |
| Usage | Use the green-ethernet power meter reset Privileged EXEC mode command toreset the power save meter. | | | | | |
| Example | switchxxxxx#green-ethernet power-meter reset | | | | | |
| User Guideline | - | | | | | |

show green-ethernet

| Syntax | <pre>show green-ethernet [interface-id detailed]</pre> |
|--------------------------|---|
| Parameters | interface-id–(Optional) Specifies an Ethernet port detailed –(Optional) Displays information for non-present ports in additionto present ports. |
| Default Configuration | Display for all ports . If detailed is not used, only present ports are displayed. |
| Command Mode | Privileged EXEC mode. |
| Usage | To display green-ethernet configuration and information, use the showgreen-ethernet Privileged EXEC mode command. |
| Example | switchxxxxx# showgreen-ethernet Energy-Detect mode: Enabled Short-Reachmode:Disabled PowerSavings:24%(1.08Woutofmaximum4.33W)CumulativeEnergy |

| 1 | | | | | | | | |
|----------------|--|---------|---------------------|----------------|-----------------------|---|--|--------|
| | Saved: 33 | - | - | thracha | ldiEOm | | | |
| | | Energy- | Short- | · VCT Table | Admin | | | Length |
| | te1/0/1 | on | on | | off | off | off | |
| | te1/0/2 | on | off | LU | on | off | on | <50 |
| | te1/0/3 | on | off | LU | off | off | off | |
| User Guideline | Energy detect Short reach the EEE power saving is dynam based on port utilization and is there consideration. The following describes the reasons for no by this command. If there are a several reasons, then only the is displayed. | | | | | mic by na efore no on-operat highest p | ture since it is t taken into tion displayed | |
| | Priority | 1 | |)escrip | rational F tion | (easo | 115 | |
| | 1 | NP | | | ot present | | | |
| | 2 | LT | L | | e is not su | | ed (fiber, a | uto |
| | 3 | LU | P | ort Link | is up – N | 4 | | |
| | Short-Reach Non-Operational Reasons | | | | | | | |
| | Priority | Reas | on D | escript | ion | | | |
| | 1 | NP | Port is not present | | | | | |
| | 2 | LT | | | is not su | | | |
| | 3 | LS | | • | d Is not S 00mbps) | uppor | ted | |
| | 4 | LL | Li | nk Leng | th receive | d fron | n VCT tes | t |
| | | | e> | ceedsth | | | | |