EEE Commands

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eee enable (global)

To enable the EEE mode globally, use the **eee enable** Global Configuration command. To disable the mode, use the **no** format of the command.

Syntax

eee enable

no eee enable

Parameters

This command has no arguments or keywords.

Default Configuration

Enabled

Command Mode

Global Configuration mode

User Guidelines

In order for EEE to work, the device at the other end of the link must also support EEE and have it enabled. In addition, for EEE to work properly, auto-negotaition must be enabled; however, if the port speed is negotiated as 1Giga, EEE always works regardless of whether the auto-negotiation status is enabled or disabled.

If auto-negotiation is not enabled on the port and its speed is less than 1 Giga, the EEE operational status is disabled.

Example

```
switchxxxxxx(config)# eee enable
```

eee enable (interface)

To enable the EEE mode on an Ethernet port, use the **eee enable** Interface Configuration command. To disable the mode, use the **no** format of the command.

Syntax

eee enable

no eee enable

Parameters

This command has no arguments or keywords.

Default Configuration

EEE is enabled.

Command Mode

Interface (Ethernet) Configuration mode

User Guidelines

If auto-negotiation is not enabled on the port and its speed is 1 Giga, the EEE operational status is disabled.

Example

```
switchxxxxxx(config)# interface gi1/0/1
switchxxxxxx(config-if)# eee enable
```

eee lldp enable

To enable EEE support by LLDP on an Ethernet port, use the **eee lldp enable** Interface Configuration command. To disable the support, use the **no** format of the command.

Syntax

eee lldp enable

no eee lldp enable

Parameters

This command has no arguments or keywords.

Default Configuration

Enabled

Command Mode

Interface (Ethernet) Configuration mode

User Guidelines

Enabling EEE LLDP advertisement enables devices to choose and change system wake-up times in order to get the optimal energy saving mode.

Example

```
switchxxxxxx(config)# interface gi1/0/1
switchxxxxxx(config-if)# eee lldp enable
```

show eee

Use the **show eee** EXEC command to display EEE information.

Syntax

show eee *[interface-id]*

Parameters

interface-id—(Optional) Specify an Ethernet port.

Defaults

None

Command Mode

Privileged EXEC mode

User Guidelines

If the port is a 10G port, but the link speed is 1G, the EEE Remote status cannot be resolved (and displayed).

Example 1 - The following displays brief Information about all ports.

```
switchxxxxxx# show eee
EEE globally enabled
EEE Administrate status is enabled on ports: gi1/0/1-2, gi1/0/4
EEE Operational status is enabled on ports: gi1/0/1-2, gi1/0/4
EEE LLDP Administrate status is enabled on ports: gi1/0/1-3
EEE LLDP Operational status is enabled on ports: gi1/0/1-2
```

Example 2 - The following is the information displayed when a port is in the Not Present state; no information is displayed if the port supports EEE.

```
switchxxxxxx# show eee gi1/0/1
Port Status: notPresent
EEE Administrate status: enabled
EEE LLDP Administrate status: enabled
```

Example 3 - The following is the information displayed when the port is in status DOWN.

```
switchxxxxxx# show eee gi1/0/1
Port Status: DOWN
EEE capabilities:
Speed 10M: EEE not supported
Speed 100M: EEE supported
Speed 1G: EEE supported
Speed 10G: EEE not supported
EEE Administrate status: enabled
EEE LLDP Administrate status: enabled
```

Example 4 - The following is the information displayed when the port is in status UP and does not support EEE.

```
switchxxxxxx# show eee gi1/0/2
Port Status: UP
EEE capabilities:
```

```
Speed 10M: EEE not supported
Speed 100M: EEE supported
Speed 1G: EEE supported
Speed 10G: EEE not supported

Current port speed: 1000Mbps
EEE Administrate status: enabled
EEE LLDP Administrate status: enabled
```

Example 5 - The following is the information displayed when the neighbor does not support EEE.

```
switchxxxxxx# show eee gi1/0/4
Port Status: UP
EEE capabilities:
Speed 10M: EEE not supported
Speed 100M: EEE supported
Speed 1G: EEE supported
Speed 10G: EEE not supported

Current port speed: 1000Mbps
EEE Remote status: disabled
EEE Administrate status: enabled
EEE Operational status: disabled (neighbor does not support)
EEE LLDP Administrate status: enabled
EEE LLDP Operational status: disabled
```

Example 6 - The following is the information displayed when EEE is disabled on the port.

```
switchxxxxxx# show eee gi1/0/1
Port Status: UP
EEE capabilities:
Speed 10M: EEE not supported
Speed 100M: EEE supported
Speed 1G: EEE supported
Speed 10G: EEE not supported

Current port speed: 1000Mbps
EEE Administrate status: disabled
EEE Operational status: disabled
EEE LLDP Administrate status: enabled
EEE LLDP Operational status: disabled
```

Example 7 - The following is the information displayed when EEE is running on the port, and EEE LLDP is disabled.

```
switchxxxxxx# show eee gi1/0/2
Port Status: UP
EEE capabilities:
Speed 10M: EEE not supported
Speed 100M: EEE supported
Speed 1G: EEE supported
Speed 10G: EEE not supported

Current port speed: 1000Mbps
EEE Remote status: enabled
EEE Administrate status: enabled
EEE Operational status: enabled
EEE LLDP Administrate status: disabled
EEE LLDP Operational status: disabled
Resolved Tx Timer: 10usec
Local Tx Timer: 10 usec
Resolved Timer: 25 usec
Local Rx Timer: 20 usec
```

Example 8 - The following is the information displayed when EEE and EEE LLDP are running on the port.

```
switchxxxxxx# show eee gi1/0/3
Port Status: UP
EEE capabilities:
Speed 10M: EEE not supported
Speed 100M: EEE supported
Speed 1G: EEE supported
Speed 10G: EEE not supported

Current port speed: 1000Mbps
EEE Remote status: enabled
EEE Administrate status: enabled
EEE Operational status: enabled
EEE LLDP Administrate status: enabled
EEE LLDP Operational status: enabled
Resolved Tx Timer: 10usec
Local Tx Timer: 10 usec
Remote Rx Timer: 5 usec
Resolved Timer: 25 usec
Local Rx Timer: 20 usec
Remote Tx Timer: 25 usec
```

Example 9 - The following is the information displayed when EEE is running on the port, EEE LLDP is enabled but not synchronized with the remote link partner.

```
switchxxxxxx# show eee gi1/0/4
Port Status: up
EEE capabilities:
Speed 10M: EEE not supported
Speed 100M: EEE supported
Speed 1G: EEE supported
Speed 10G: EEE not supported

Current port speed: 1000Mbps
EEE Remote status: enabled
EEE Administrate status: enabled
EEE Operational status: enabled
EEE LLDP Administrate status: enabled
EEE LLDP Operational status:  disabled
Resolved Tx Timer: 64
Local Tx Timer: 64
Resolved Rx Timer: 16
Local Rx Timer: 16
```

Example 10 - The following is the information displayed when EEE and EEE LLDP are running on the port.

```
switchxxxxxx# show eee gi1/0/3
Port Status: UP
EEE capabilities:
Speed 10M: EEE not supported
Speed 100M: EEE supported
Speed 1G: EEE supported
Speed 10G: EEE not supported

Current port speed: 1000Mbps
EEE Remote status: enabled
EEE Administrate status: enabled
EEE Operational status: enabled
EEE LLDP Administrate status: enabled
EEE LLDP Operational status: enabled
Resolved Tx Timer: 10usec
Local Tx Timer: 10 usec
Remote Rx Timer: 5 usec
Resolved Timer: 25 usec
Local Rx Timer: 20 usec
Remote Tx Timer: 25 usec
```