Ethernet OAM Commands

This module provides command line interface (CLI) commands for configuring Ethernet Operations, Administration, and Maintenance (EOAM) on the Cisco NCS 6000 Series Router.

action capabilities-conflict

To configure what action is taken on an interface when a capabilities-conflict event occurs, use the **action capabilities-conflict** command in Ethernet OAM configuration mode or interface Ethernet OAM configuration mode. To return to the default, use the **no** form of this command.

action capabilities-conflict {**disable**| **efd** | **error-disable-interface**| **log**}

no action capabilities-conflict {**disable**| **efd** | **error-disable-interface**| **log**}

Syntax Description

disable	Performs no action on the interface when a capabilities-conflict event occurs.
efd	Puts the line protocol into the down state for an interface when a capabilities-conflict event occurs. The state is removed when the first packet is received without a conflict.
error-disable-interface	Puts the interface into the error-disable state when a capabilities-conflict event occurs.
log	(Interface Ethernet OAM configuration only) Creates a syslog entry when a capabilities-conflict event occurs. This action is available only in interface Ethernet OAM configuration mode to override the OAM profile on a specific interface.

Command Default

The default action is to create a syslog entry.

Command Modes

Ethernet OAM configuration (config-eoam)

Interface Ethernet OAM configuration (config-if-eoam)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples   The following example shows how to configure that no action is performed on the interface when a capabilities-conflict event occurs.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# action capabilities-conflict disable
```

The following example shows how to configure putting the interface into the line-protocol-down state when a capabilities-conflict event occurs.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# action capabilities-conflict efd
```

The following example shows how to configure that the interface is put into the error-disable state when a capabilities-conflict event occurs.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# action capabilities-conflict error-disable-interface
```

The following example shows how to configure that a syslog entry is created when a capabilities-conflict event occurs. This configuration overrides the interface Ethernet OAM profile.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# interface gigabitethernet 0/1/0/0
RP/0/RP0/CPU0:router(config-if)# ethernet oam
RP/0/RP0/CPU0:router(config-if-eoam)# action capabilities-conflict log
```

Related Commands

Command	Description
ethernet oam profile, on page 30	Creates an EOAM profile and enters EOAM configuration mode.
ethernet oam, on page 27	Enables Ethernet Link OAM, with default values, on an interface and enter interface Ethernet OAM configuration mode.
profile (EOAM), on page 49	Attaches an Ethernet OAM profile to an interface.

action critical-event

To configure what action is taken on an interface when a critical-event notification is received from the remote Ethernet OAM peer, use the **action critical-event** command in Ethernet OAM configuration mode or interface Ethernet OAM configuration mode. To return to the default, use the **no** form of this command.

action critical-event {**disable**| **error-disable-interface**| **log**}

no action critical-event {**disable**| **error-disable-interface**| **log**}

Syntax Description

disable	Performs no action on the interface when a critical-event notification is received.
error-disable-interface	Puts the interface into the error-disable state when a critical-event notification is received.
log	(Interface Ethernet OAM configuration only) Creates a syslog entry when a critical-event notification is received. This action is available only in interface Ethernet OAM configuration mode to override the OAM profile on a specific interface.

Command Default

The default action is to create a syslog entry.

Command Modes

Ethernet OAM configuration (config-eoam)

Interface Ethernet OAM configuration (config-if-eoam)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples   The following example shows how to configure that no action is performed on the interface when a critical-event notification is received.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# action critical-event disable
```

The following example shows how to configure that the interface is put into the error-disable state when a critical-event notification is received.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# action critical-event error-disable-interface
```

The following example shows how to configure that a syslog entry is created when a critical-event notification is received. This configuration overrides the interface Ethernet OAM profile.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# interface gigabitethernet 0/1/0/0
RP/0/RP0/CPU0:router(config-if)# ethernet oam
RP/0/RP0/CPU0:router(config-if-eoam)# action critical-event log
```

Related Commands

Command	Description
ethernet oam profile, on page 30	Creates an EOAM profile and enters EOAM configuration mode.
ethernet oam, on page 27	Enables Ethernet Link OAM, with default values, on an interface and enter interface Ethernet OAM configuration mode.
profile (EOAM), on page 49	Attaches an Ethernet OAM profile to an interface.

action discovery-timeout

To configure what action is taken on an interface when a connection timeout occurs, use the **action discovery-timeout** command in Ethernet OAM configuration mode or interface Ethernet OAM configuration mode. To return to the default, use the **no** form of this command.

action discovery-timeout {**disable**| **efd error-disable-interface**| **log**}

no action discovery-timeout {**disable**| **efd error-disable-interface**| **log**}

Syntax Description

disable	Performs no action on the interface when a connection timeout occurs.
efd	Puts the line protocol into the down state for an interface when a connection timeout occurs. The state is removed when the session is re-established.
error-disable-interface	Puts the interface into the error-disable state when a connection timeout occurs.
log	(Interface Ethernet OAM configuration only) Creates a syslog entry when a connection timeout occurs. This action is available only in interface Ethernet OAM configuration mode to override the OAM profile on a specific interface.

Command Default

The default action is to create a syslog entry.

Command Modes

Ethernet OAM configuration (config-eoam)

Interface Ethernet OAM configuration (config-if-eoam)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples   The following example shows how to configure that no action is performed on the interface when a connection timeout occurs.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# action discovery-timeout disable
```
The following example shows how to configure putting the interface into the line-protocol-down state when a connection timeout occurs.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# action discovery-timeout efd
```

The following example shows how to configure that the interface is put into the error-disable state when a connection timeout occurs.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# action discovery-timeout error-disable-interface
```

The following example shows how to configure that a syslog entry is created when a connection timeout occurs. This configuration overrides the interface Ethernet OAM profile.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# interface gigabitethernet 0/1/0/0
RP/0/RP0/CPU0:router(config-if)# ethernet oam
RP/0/RP0/CPU0:router(config-if-eoam)# action discovery-timeout log
```

Related Commands

Command	Description
ethernet oam profile, on page 30	Creates an EOAM profile and enters EOAM configuration mode.
ethernet oam, on page 27	Enables Ethernet Link OAM, with default values, on an interface and enter interface Ethernet OAM configuration mode.
profile (EOAM), on page 49	Attaches an Ethernet OAM profile to an interface.

action dying-gasp

To configure what action is taken on an interface when a dying-gasp notification is received from the remote Ethernet OAM peer, use the **action dying-gasp** command in Ethernet OAM configuration mode or interface Ethernet OAM configuration mode. To return to the default, use the **no** form of this command.

action dying-gasp {**disable**| **error-disable-interface**| **log**}

no action dying-gasp {**disable**| **error-disable-interface**| **log**}

Syntax Description

disable	Performs no action on the interface when a dying-gasp notification is received.
error-disable-interface	Puts the interface into the error-disable state when a dying-gasp notification is received.
log	(Interface Ethernet OAM configuration only) Creates a syslog entry when a dying-gasp notification is received. This action is available only in interface Ethernet OAM configuration mode to override the OAM profile on a specific interface.

Command Default

The default action is to create a syslog entry.

Command Modes

Ethernet OAM configuration (config-eoam)

Interface Ethernet OAM configuration (config-if-eoam)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples   The following example shows how to configure that no action is performed on the interface when a dying-gasp notification is received.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# action dying-gasp disable
```

The following example shows how to configure that the interface is put into the error-disable state when a dying-gasp notification is received.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# action dying-gasp error-disable-interface
```

The following example shows how to configure that a syslog entry is created when a dying-gasp notification is received. This configuration overrides the interface Ethernet OAM profile.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# interface gigabitethernet 0/1/0/0
RP/0/RP0/CPU0:router(config-if)# ethernet oam
RP/0/RP0/CPU0:router(config-if-eoam)# action dying-gasp log
```

Related Commands

Command	Description
ethernet oam profile, on page 30	Creates an EOAM profile and enters EOAM configuration mode.
ethernet oam, on page 27	Enables Ethernet Link OAM, with default values, on an interface and enter interface Ethernet OAM configuration mode.
profile (EOAM), on page 49	Attaches an Ethernet OAM profile to an interface.

action high-threshold

To configure what action is taken on an interface when a high threshold is exceeded, use the **action high-threshold** command in Ethernet OAM configuration mode or interface Ethernet OAM configuration mode. To return to the default, use the **no** form of this command.

action high-threshold {**disable**| **error-disable-interface**| **log**}

no action high-threshold {**disable**| **error-disable-interface**| **log**}

Syntax Description

disable	(Interface Ethernet OAM configuration only) Performs no action on the interface when a high threshold is exceeded.
error-disable-interface	Puts the interface into the error-disable state when a high threshold is exceeded.
log	Creates a syslog entry when a high threshold is exceeded. This action is available only in interface Ethernet OAM configuration mode to override the OAM profile on a specific interface.

Command Default   The default is that no action is taken when a high threshold is exceeded.

Command Modes   Ethernet OAM configuration (config-eoam)

Interface Ethernet OAM configuration (config-if-eoam)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines   To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples

The following example shows how to configure that a syslog entry is created on the interface when a high threshold is exceeded.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# action high-threshold log
```

The following example shows how to configure that the interface is put into the error-disable state when a high threshold is exceeded.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# action high-threshold error-disable-interface
```

The following example shows how to configure that no action is taken when a high threshold is exceeded. This configuration overrides the Ethernet OAM profile configuration.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# interface gigabitethernet 0/1/0/0
RP/0/RP0/CPU0:router(config-if)# ethernet oam
RP/0/RP0/CPU0:router(config-if-eoam)# action high-threshold disable
```

Related Commands

Command	Description
ethernet oam profile, on page 30	Creates an EOAM profile and enters EOAM configuration mode.
ethernet oam, on page 27	Enables Ethernet Link OAM, with default values, on an interface and enter interface Ethernet OAM configuration mode.
profile (EOAM), on page 49	Attaches an Ethernet OAM profile to an interface.

action remote-loopback

To configure what action is taken on an interface when a remote-loopback event occurs, use the **action remote-loopback** command in Ethernet OAM configuration mode or interface Ethernet OAM configuration mode. To return to the default, use the **no** form of this command.

action remote-loopback {**disable**| **log**}

no action remote-loopback {**disable**| **log**}

Syntax Description

disable	Performs no action on the interface when a remote-loopback event occurs.
log	(Interface Ethernet OAM configuration only) Creates a syslog entry when a remote-loopback event occurs. This action is available only in interface Ethernet OAM configuration mode to override the OAM profile on a specific interface.

Command Default

The default action is to create a syslog entry.

Command Modes

Ethernet OAM configuration (config-eoam)

Interface Ethernet OAM configuration (config-if-eoam)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples

The following example shows how to configure that no action is performed on the interface when a remote-loopback event occurs.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
```

```
RP/0/RP0/CPU0:router(config-eoam)# action remote-loopback disable
```

The following example shows how to configure that a syslog entry is created when a remote-loopback event occurs. This configuration overrides the interface Ethernet OAM profile.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# interface gigabitethernet 0/1/0/0
RP/0/RP0/CPU0:router(config-if)# ethernet oam
RP/0/RP0/CPU0:router(config-if-eoam)# action remote-loopback log
```

Related Commands

Command	Description
ethernet oam profile, on page 30	Creates an EOAM profile and enters EOAM configuration mode.
ethernet oam, on page 27	Enables Ethernet Link OAM, with default values, on an interface and enter interface Ethernet OAM configuration mode.
profile (EOAM), on page 49	Attaches an Ethernet OAM profile to an interface.

action session-down

To configure what action is taken on an interface when an Ethernet OAM session goes down, use the **action session-down** command in Ethernet OAM configuration mode or interface Ethernet OAM configuration mode. To return to the default, use the **no** form of this command.

action session-down {**disable**| **efd** | **error-disable-interface**| **log**}

no action session-down {**disable**| **efd** | **error-disable-interface**| **log**}

Syntax Description

disable	Performs no action on the interface when a capabilities-conflict event occurs.
efd	Puts the line protocol into the down state for an interface when a capabilities-conflict event occurs. The state is removed when the first packet is received without a conflict.
error-disable-interface	Puts the interface into the error-disable state when a capabilities-conflict event occurs.
log	(Interface Ethernet OAM configuration only) Creates a syslog entry when a capabilities-conflict event occurs. This action is available only in interface Ethernet OAM configuration mode to override the OAM profile on a specific interface.

Command Default

The default action is to create a syslog entry.

Command Modes

Ethernet OAM configuration (config-eoam)

Interface Ethernet OAM configuration (config-if-eoam)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples   The following example shows how to configure that no action is performed on the interface when an Ethernet OAM session goes down.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# action session-down disable
```

The following example shows how to configure putting the interface into the line-protocol-down state when an Ethernet OAM session goes down.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# action session-down efd
```

The following example shows how to configure that the interface is put into the error-disable state when an Ethernet OAM session goes down.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# action session-down error-disable-interface
```

The following example shows how to configure that a syslog entry is created when an Ethernet OAM session goes down. This configuration overrides the interface Ethernet OAM profile.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# interface gigabitethernet 0/1/0/0
RP/0/RP0/CPU0:router(config-if)# ethernet oam
RP/0/RP0/CPU0:router(config-if-eoam)# action session-down log
```

Related Commands

Command	Description
ethernet oam profile, on page 30	Creates an EOAM profile and enters EOAM configuration mode.
ethernet oam, on page 27	Enables Ethernet Link OAM, with default values, on an interface and enter interface Ethernet OAM configuration mode.
profile (EOAM), on page 49	Attaches an Ethernet OAM profile to an interface.

action session-up

To configure what action is taken on an interface when an Ethernet OAM session is established, use the **action session-up** command in Ethernet OAM configuration mode or interface Ethernet OAM configuration mode. To return to the default, use the **no** form of this command.

action session-up {**disable**| **log**}

no action session-up {**disable**| **log**}

Syntax Description

disable	Performs no action on the interface when an Ethernet OAM session is established.
log	(Interface Ethernet OAM configuration only) Creates a syslog entry when an Ethernet OAM session is established. This action is available only in interface Ethernet OAM configuration mode to override the OAM profile on a specific interface.

Command Default

The default action is to create a syslog entry.

Command Modes

Ethernet OAM configuration (config-eoam)

Interface Ethernet OAM configuration (config-if-eoam)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples

The following example shows how to configure that no action is performed on the interface when an Ethernet OAM session is established.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
```

```
RP/0/RP0/CPU0:router(config-eoam)# action session-up disable
```

The following example shows how to configure that a syslog entry is created when an Ethernet OAM session is established. This configuration overrides the interface Ethernet OAM profile.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# interface gigabitethernet 0/1/0/0
RP/0/RP0/CPU0:router(config-if)# ethernet oam
RP/0/RP0/CPU0:router(config-if-eoam)# action session-up log
```

Related Commands

Command	Description
ethernet oam profile, on page 30	Creates an EOAM profile and enters EOAM configuration mode.
ethernet oam, on page 27	Enables Ethernet Link OAM, with default values, on an interface and enter interface Ethernet OAM configuration mode.
profile (EOAM), on page 49	Attaches an Ethernet OAM profile to an interface.

action uni-directional link-fault

To configure what action is taken on an interface when a link-fault notification is received from the remote Ethernet OAM peer, use the **action uni-directional link-fault** command in Ethernet OAM configuration mode or interface Ethernet OAM configuration mode. To return to the default, use the **no** form of this command.

action uni-directional link-fault {**disable**| **efd** | **error-disable-interface**| **log**}

no action uni-directional link-fault {**disable**| **efd** | **error-disable-interface**| **log**}

Syntax Description

disable	Performs no action on the interface when a capabilities-conflict event occurs.
efd	Puts the line protocol into the down state for an interface when a capabilities-conflict event occurs. The state is removed when the first packet is received without a conflict.
error-disable-interface	Puts the interface into the error-disable state when a capabilities-conflict event occurs.
log	(Interface Ethernet OAM configuration only) Creates a syslog entry when a capabilities-conflict event occurs. This action is available only in interface Ethernet OAM configuration mode to override the OAM profile on a specific interface.

Command Default

The default action is to create a syslog entry.

Command Modes

Ethernet OAM configuration (config-eoam)

Interface Ethernet OAM configuration (config-if-eoam)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

This command only determines the action taken when a uni-directional link fault notification is received from the peer; it does not affect the action taken when a fault is detected locally.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples

The following example shows how to configure that no action is performed on the interface when a link-fault notification is received.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# action uni-directional link-fault disable
```

The following example shows how to configure putting the interface into the line-protocol-down state when a link-fault notification is received.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# action uni-directional link-fault efd
```

The following example shows how to configure that the interface is put into the error-disable state when a link-fault notification is received.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# action uni-directional link-fault error-disable-interface
```

The following example shows how to configure that a syslog entry is created when a link-fault notification is received. This configuration overrides the interface Ethernet OAM profile.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# interface gigabitethernet 0/1/0/0
RP/0/RP0/CPU0:router(config-if)# ethernet oam
RP/0/RP0/CPU0:router(config-if-eoam)# action uni-directional link-fault log
```

Related Commands

Command	Description
ethernet oam profile, on page 30	Creates an EOAM profile and enters EOAM configuration mode.
ethernet oam, on page 27	Enables Ethernet Link OAM, with default values, on an interface and enter interface Ethernet OAM configuration mode.
profile (EOAM), on page 49	Attaches an Ethernet OAM profile to an interface.

action wiring-conflict

To configure what action is taken on an interface when a wiring-conflict event occurs, use the **action wiring-conflict** command in Ethernet OAM configuration mode or interface Ethernet OAM configuration mode. To return to the default, use the **no** form of this command.

action wiring-conflict {**disable**| **efd** | **error-disable-interface**| **log**}

no action wiring-conflict {**disable**| **efd** | **error-disable-interface**| **log**}

Syntax Description

disable	Performs no action on the interface when a capabilities-conflict event occurs.
efd	Puts the line protocol into the down state for an interface when a capabilities-conflict event occurs. The state is removed when the first packet is received without a conflict.
error-disable-interface	Puts the interface into the error-disable state when a capabilities-conflict event occurs.
log	(Interface Ethernet OAM configuration only) Creates a syslog entry when a capabilities-conflict event occurs. This action is available only in interface Ethernet OAM configuration mode to override the OAM profile on a specific interface.

Command Default

The default action is to put the interface into error-disable state.

Command Modes

Ethernet OAM configuration (config-eoam)

Interface Ethernet OAM configuration (config-if-eoam)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples

The following example shows how to configure that no action is performed on the interface when a wiring-conflict event occurs.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# action wiring-conflict disable
```

The following example shows how to configure putting the interface into the line-protocol-down state when a wiring-conflict event occurs.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# action wiring-conflict efd
```

The following example shows how to configure that a syslog entry is created when a wiring-conflict event occurs.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# action wiring-conflict log
```

The following example shows how to configure that the interface is put into the error-disable state when a wiring-conflict event occurs. This configuration overrides the interface Ethernet OAM profile.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# interface gigabitethernet 0/1/0/0
RP/0/RP0/CPU0:router(config-if)# ethernet oam
(config-if-eoam)# action wiring-conflict error-disable-interface
```

Related Commands

Command	Description
ethernet oam profile, on page 30	Creates an EOAM profile and enters EOAM configuration mode.
ethernet oam, on page 27	Enables Ethernet Link OAM, with default values, on an interface and enter interface Ethernet OAM configuration mode.
profile (EOAM), on page 49	Attaches an Ethernet OAM profile to an interface.

clear ethernet oam statistics

To clear the packet counters on Ethernet OAM interfaces, use the **clear ethernet oam statistics** command in EXEC mode.

clear ethernet oam statistics [**interface** *type interface-path-id*| **location** *node-id* **all**]

Syntax Description

interface *type interface-path-id*	(Optional) Physical interface or virtual interface.
	Note Use the **show interfaces** command to see a list of all interfaces currently configured on the router.
	For more information about the syntax for the router, use the question mark (**?**) online help function.
location	Clears the statistics for a specific node.
	For more information about the syntax for the router, use the question mark (**?**) online help function.
node-id	Path ID of the node.
all	Clears the statistics for all nodes on the router.

Command Default

No parameters clears the packet counters on all Ethernet OAM interfaces.

Command Modes

XR EXEC

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operations
ethernet-services	execute

Examples The following example shows how to clear the packet counters on a specific interface:

```
RP/0/RP0/CPU0:router# clear ethernet oam statistics interface gigabitethernet 0/1/5/1
```

Related Commands

Command	Description
show ethernet oam statistics, on page 64	Displays the local and remote Ethernet OAM statistics for interfaces.
show ethernet oam interfaces, on page 61	

connection timeout

To configure the timeout value for an Ethernet OAM session, use the **connection timeout** command in Ethernet OAM configuration mode.

connection timeout *seconds*

Syntax Description

seconds	Connection timeout period in seconds. The range is 2 to 30.

Command Default

The default value is 5.

Command Modes

Ethernet OAM configuration (config-eoam)

Interface Ethernet OAM configuration (config-if-eoam)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

If no packets are received from the OAM peer in the specified time, the OAM session is brought down, and the negotiation phase starts again.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples

The following example shows how to configure the connection timeout value of an Ethernet OAM session:

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# connection timeout 20
```

Related Commands

Command	Description
action discovery-timeout, on page 7	Configures what action is taken on an interface when a connection timeout occurs.
ethernet oam, on page 27	Enables Ethernet Link OAM, with default values, on an interface and enter interface Ethernet OAM configuration mode.
ethernet oam profile, on page 30	Creates an EOAM profile and enters EOAM configuration mode.
show ethernet oam configuration, on page 55	Displays the current active Ethernet OAM configuration on an interface.
show ethernet oam discovery, on page 58	Displays the currently configured OAM information of Ethernet OAM sessions on interfaces.
show ethernet oam interfaces, on page 61	

ethernet oam

To enable Ethernet Link OAM, with default values, on an interface and enter interface Ethernet OAM configuration mode, use the **ethernet oam** command in interface configuration mode. To disable Ethernet Link OAM, use the **no** form of this command.

ethernet oam

no ethernet oam

Syntax Description   This command has no keywords or arguments.

Command Default   When enabled on an interface, the Ethernet Link OAM default values apply.

Command Modes   Interface configuration (config-if)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines   To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

When you enable Ethernet Link OAM on an interface, the default Ethernet Link OAM values are applied to the interface. For the default Ethernet Link OAM values, see the related Ethernet Link OAM commands.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples   The following example shows how to enable Ethernet Link OAM and enter interface Ethernet OAM configuration mode.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# interface gigabitethernet 0/1/5/6
RP/0/RP0/CPU0:router(config-if)# ethernet oam
RP/0/RP0/CPU0:router(config-if-eoam)#
```

ethernet oam loopback

To start or stop a loopback at the remote end of an Ethernet OAM interface, use the **ethernet oam loopback** command in EXEC mode.

ethernet oam loopback {**enable**| **disable**} *type interface-path-id*

Syntax Description

enable	Starts a loopback at the remote end.
disable	Stops the loopback at the remote end.
type	Interface type. For more information, use the question mark (**?**) online help function.
interface-path-id	Physical interface or virtual interface.

> **Note** Use the **show interfaces** command to see a list of all interfaces currently configured on the router.

For more information about the syntax for the router, use the question mark (**?**) online help function.

Command Default Loopback is not enabled.

Command Modes XR EXEC

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

This command puts the remote peer device into loopback mode. This means that all traffic sent to the peer is looped back, which means that it is sent back from the peer and received by the router. All traffic received from the peer device is discarded.

This command returns when the OAM client receives confirmation from the remote end that the remote loopback has been enabled or disabled. If no response or a failure response is received, an error is returned.

Task ID

Task ID	Operations
ethernet-services	execute

Examples

The following example shows how to start a loopback at the far end of an Ethernet OAM interface.

```
RP/0/RP0/CPU0:router# ethernet oam loopback enable tengigabitethernet 0/6/1/0
```

Related Commands

Command	Description
remote-loopback	Enables a remote loopback on the far end of an Ethernet OAM interface.
action remote-loopback, on page 13	Configures what action is taken on an interface when a remote-loopback event occurs.
snmp-server traps ethernet oam events, on page 66	
show ethernet oam configuration, on page 55	Displays the current active Ethernet OAM configuration on an interface.

ethernet oam profile

To create an Ethernet Operations, Administration and Maintenance (EOAM) profile and enter EOAM configuration mode, use the **ethernet oam profile** command in XR Config mode. To delete an EOAM profile, use the **no** form of this command.

ethernet oam profile *profile-name*

no ethernet oam profile *profile-name*

Syntax Description

profile-name	Text string name of the OAM profile. The maximum length is 32 bytes.

Command Default   No default behavior or values

Command Modes   XR config

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines   To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Before you can delete an EOAM profile, you must remove the profile from all interfaces to which it is attached.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples   This example shows how to create an Ethernet OAM profile and enter Ethernet OAM configuration mode:

```
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)#
```

frame-period threshold

To configure the thresholds that trigger an Ethernet OAM frame-period error event, use the **frame-period threshold** command in Ethernet OAM link monitor or interface Ethernet OAM link monitor configuration mode. To return the threshold to the default value, use the **no** form of this command.

frame-period threshold low *threshold* [**high** *threshold*]

no frame-period threshold low *threshold* [**high** *threshold*]

Syntax Description

low *threshold*	Low threshold, in frames, that triggers a frame-period error event. The range is 0 to 1000000.
high *threshold*	(Optional) High threshold, in frames, that triggers a frame-period error event. The range is 0 to 1000000. The high threshold value can be configured only in conjunction with the low threshold value.

Command Default The default low threshold is 1.

Command Modes Ethernet OAM link monitor configuration (config-eoam-lm)

Interface Ethernet OAM link monitor configuration (config-if-eoam-lm)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

When the low threshold is passed, a frame-period error event notification is generated and transmitted to the OAM peer. Additionally, any registered higher level OAM protocols, such as Connectivity Fault Management (CFM), are also notified. When the high threshold is passed, the configured high threshold action is performed in addition to the low threshold actions. The high threshold is optional and is configurable only in conjunction with the low threshold.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples   The following example shows how to configure the low and high thresholds that trigger a frame-period error event.

```
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# link-monitor
RP/0/RP0/CPU0:router(config-eoam-lm)# frame-period threshold low 100 high 600000
```

frame-period window

To configure the window size for an Ethernet OAM frame-period error event, use the **frame-period window** command in Ethernet OAM link monitor or interface Ethernet OAM link monitor configuration mode. To return the window size to the default value, use the **no** form of this command.

frame-period window *window*

no frame-period window *window*

Syntax Description

window	Size of the window for a frame-period error in milliseconds. The range is 100 to 60000.

Command Default

The default value is 1000.

Command Modes

Ethernet OAM link monitor configuration (config-eoam-lm)

Interface Ethernet OAM link monitor configuration (config-if-eoam-lm)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples

The following example shows how to configure the window size for a frame-period error.

```
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# link-monitor
RP/0/RP0/CPU0:router(config-eoam-lm)# frame-period window 60000
```

frame-seconds threshold

To configure the thresholds that trigger a frame-seconds error event, use the **frame-seconds threshold** command in Ethernet OAM link monitor or interface Ethernet OAM link monitor configuration mode. To return the threshold to the default value, use the **no** form of this command.

frame-seconds threshold low *threshold* [**high** *threshold*]

no frame-seconds threshold low *threshold* [**high** *threshold*]

Syntax Description

low *threshold*	Low threshold, in seconds, that triggers a frame-seconds error event. The range is 0 to 900.
high *threshold*	(Optional) High threshold, in seconds, that triggers a frame-seconds error event. The range is 1 to 900. The high threshold value can be configured only in conjunction with the low threshold value.

Command Default

The default value is 1.

Command Modes

Ethernet OAM link monitor configuration (config-eoam-lm)

Interface Ethernet OAM link monitor configuration (config-if-eoam-lm)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

When the low threshold is passed, a frame-seconds error event notification is generated and transmitted to the OAM peer. Additionally, any registered higher level OAM protocols, such as Connectivity Fault Management (CFM), are also notified. When the high threshold is passed, the configured high threshold action is performed in addition to the low threshold actions. The high threshold is optional and is configurable only in conjunction with the low threshold.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples   The following example shows how to configure the low and high thresholds that trigger a frame-seconds error event:

```
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# link-monitor (config-eoam)#  link-monitor
RP/0/RP0/CPU0:router(config-eoam-lm)# frame-seconds threshold low 10 high 900
```

Related Commands

Command	Description
ethernet oam profile, on page 30	Creates an EOAM profile and enters EOAM configuration mode.
link-monitor, on page 42	Enters Ethernet OAM link monitor configuration mode.

frame-seconds window

To configure the window size for the OAM frame-seconds error event, use the **frame-seconds window** command in Ethernet OAM link monitor or interface Ethernet OAM link monitor configuration mode. To return the window size to the default value, use the **no** form of this command.

frame-seconds window *window*

no frame-seconds window *window*

Syntax Description

window	Size of the window for a frame-seconds error in milliseconds. The range is 10000 to 900000.

Command Default

The default value is 60000.

Command Modes

Ethernet OAM link monitor configuration (config-eoam-lm)

Interface Ethernet OAM link monitor configuration (config-if-eoam-lm)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples

The following example shows how to configure the window size for a frame-seconds error.

```
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# link-monitor
RP/0/RP0/CPU0:router(config-eoam-lm)# frame-seconds window 900000
```

Related Commands

Command	Description
ethernet oam profile, on page 30	Creates an EOAM profile and enters EOAM configuration mode.
link-monitor, on page 42	Enters Ethernet OAM link monitor configuration mode.

frame threshold

To configure the thresholds that triggers an Ethernet OAM frame error event, use the **frame threshold** command in Ethernet OAM link monitor or interface Ethernet OAM link monitor configuration mode. To return the threshold to the default value, use the **no** form of this command.

frame threshold low *threshold* [**high** *threshold*]

no frame threshold low *threshold* [**high** *threshold*]

Syntax Description

low *threshold*	Low threshold, in symbols, that triggers a frame error event. The range is 0 to 12000000.
high *threshold*	(Optional) High threshold, in symbols, that triggers a frame error event. The range is 0 range is 0 to 12000000. The high threshold value can be configured only in conjunction with the low threshold value.

Command Default

The default low threshold is 1.

Command Modes

Ethernet OAM link monitor configuration (config-eoam-lm)

Interface Ethernet OAM link monitor configuration (config-if-eoam-lm)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

When the low threshold is passed, a frame error event notification is generated and transmitted to the OAM peer. Additionally, any registered higher level OAM protocols, such as Connectivity Fault Management (CFM), are also notified. When the high threshold is passed, the configured high threshold action is performed in addition to the low threshold actions. The high threshold is optional and is configurable only in conjunction with the low threshold.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples

The following example shows how to configure the low and high thresholds that trigger a frame error event:

```
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# link-monitor
RP/0/RP0/CPU0:router(config-eoam-lm)# frame threshold low 100 high 60000
```

Related Commands

Command	Description
ethernet oam profile, on page 30	Creates an EOAM profile and enters EOAM configuration mode.
link-monitor, on page 42	Enters Ethernet OAM link monitor configuration mode.

frame window

To configure the frame window size of an OAM frame error event, use the **frame window** command in Ethernet OAM link monitor or interface Ethernet OAM link monitor configuration mode. To return the window size to the default value, use the **no** form of this command.

frame window *window*

no frame window *window*

Syntax Description

window	Size of the window for a frame error in seconds. The range is 1000 to 60000.

Command Default

The default value is 1000.

Command Modes

Ethernet OAM link monitor configuration (config-eoam-lm)

Interface Ethernet OAM link monitor configuration (config-if-eoam-lm)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples

The following example shows how to configure the window size for a frame error.

```
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# link-monitor
RP/0/RP0/CPU0:router(config-eoam-lm)# frame window 60
```

Related Commands

Command	Description
ethernet oam profile, on page 30	Creates an EOAM profile and enters EOAM configuration mode.
link-monitor, on page 42	Enters Ethernet OAM link monitor configuration mode.

link-monitor

To enter Ethernet OAM link monitor configuration mode, use the **link-monitor** command in Ethernet OAM configuration mode. To enter interface Ethernet OAM link monitor configuration mode, use the **link-monitor** command in interface Ethernet OAM configuration mode.

link-monitor

Syntax Description This command has no keywords or arguments.

Command Default No default behavior or values

Command Modes Ethernet OAM configuration (config-eoam)

Interface Ethernet OAM configuration (config-if-eoam)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples This example shows how to enter the Ethernet OAM link monitor configuration mode.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# link-monitor
RP/0/RP0/CPU0:router(config-eoam-lm)#
```

The following example shows how to enter the link monitor configuration mode from interface Ethernet OAM configuration mode.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# interface gigabitethernet 0/1/5/6
RP/0/RP0/CPU0:router(config-if)# ethernet oam
RP/0/RP0/CPU0:router(config-if-eoam)# link-monitor
```

mib-retrieval

To enable MIB retrieval in an Ethernet OAM profile or on an Ethernet OAM interface, use the **mib-retrieval** command in Ethernet OAM or interface Ethernet OAM configuration mode. To return the interface to the default (disabled), use the **disable** keyword.

mib-retrieval [disable]

Syntax Description

disable	Disables MIB retrieval the Ethernet OAM interface.

Command Default   MIB retrieval is disabled by default.

Command Modes   Ethernet OAM configuration (config-eoam)

Interface Ethernet OAM configuration (config-if-eoam)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines   To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

When MIB retrieval is enabled on an Ethernet OAM interface, the OAM client advertises support for MIB retrieval to the peer.

When MIB retrieval is disabled (the default), only the enable form of the **mib-retrieval** command is available in interface Ethernet OAM configuration mode. The **disable** keyword is provided to override the profile when needed.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples   The following example shows how to enable MIB retrieval on a Gigabit Ethernet interface:

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# interface gigabitethernet 0/1/5/6
RP/0/RP0/CPU0:router(config-if)# ethernet oam
```

```
RP/0/RP0/CPU0:router(config-if-eoam)# mib-retrieval
```

Related Commands

Command	Description
ethernet oam profile, on page 30	Creates an EOAM profile and enters EOAM configuration mode.
ethernet oam, on page 27	Enables Ethernet Link OAM, with default values, on an interface and enter interface Ethernet OAM configuration mode.
profile (EOAM), on page 49	Attaches an Ethernet OAM profile to an interface.
show ethernet oam configuration, on page 55	Displays the current active Ethernet OAM configuration on an interface.
show ethernet oam interfaces, on page 61	

mode (Ethernet OAM)

To configure the Ethernet OAM mode on an interface, use the **mode** command in Ethernet OAM or interface Ethernet OAM configuration mode. To return to the default, use the **no** form of the command.

mode {**active**| **passive**}

Syntax Description		
	passive	Specifies that the interface operates in passive mode, where it cannot initiate the discovery process, generate a retrieval PDU, or request loopback.
	active	(Interface Ethernet OAM configuration only) Specifies that the interface operates in active mode to initiate processes and make requests.

Command Default

The default is active.

Command Modes

Ethernet OAM configuration (config-eoam)

Interface Ethernet OAM configuration (config-if-eoam)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

If a profile exists on the interface, setting the mode with this command overrides the mode setting in the profile on an interface.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples

The following example shows how to enable Ethernet OAM passive mode on a Gigabit Ethernet interface:

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# interface gigabitethernet 0/1/5/6
RP/0/RP0/CPU0:router(config-if)# ethernet oam
RP/0/RP0/CPU0:router(config-if-eoam)# profile Profile_1
```

```
RP/0/RP0/CPU0:router(config-if-eoam)# mode passive
```

Related Commands

Command	Description
ethernet oam profile, on page 30	Creates an EOAM profile and enters EOAM configuration mode.
ethernet oam, on page 27	Enables Ethernet Link OAM, with default values, on an interface and enter interface Ethernet OAM configuration mode.
profile (EOAM), on page 49	Attaches an Ethernet OAM profile to an interface.
show ethernet oam configuration, on page 55	Displays the current active Ethernet OAM configuration on an interface.
show ethernet oam interfaces, on page 61	

monitoring

To enable Ethernet OAM link monitoring, use the **monitoring** command in Ethernet OAM link monitor or interface Ethernet OAM link monitor configuration mode. To return link monitoring to its default state of enabled, use the **no** form of this command.

monitoring [disable]

no monitoring [disable]

Syntax Description

disable	(Optional) Disables Ethernet OAM link monitoring.
	Note When configuring on a profile, only the **monitoring disable** form of the command is supported.

Command Default

Link monitoring is enabled by default.

Command Modes

Ethernet OAM link monitor configuration (config-eoam-lm)

Interface Ethernet OAM link monitor configuration (config-if-eoam-lm)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Monitoring is enabled by default. To disable it either on a profile or an interface, use the **monitoring disable** form of the command.

If monitoring is disabled on a profile, but you want to override the configuration and enable it for an interface, use the **monitoring** command in interface Ethernet OAM link monitor configuration mode.

You cannot configure the **monitoring** command without the **disable** keyword on a profile.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples   The following example shows how to disable link-monitoring on an Ethernet OAM interface:

```
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# link-monitor
RP/0/RP0/CPU0:router(config-eoam-lm)# monitoring disable
```

Related Commands

Command	Description
ethernet oam profile, on page 30	Creates an EOAM profile and enters EOAM configuration mode.
ethernet oam, on page 27	Enables Ethernet Link OAM, with default values, on an interface and enter interface Ethernet OAM configuration mode.
link-monitor, on page 42	Enters Ethernet OAM link monitor configuration mode.
profile (EOAM), on page 49	Attaches an Ethernet OAM profile to an interface.
show ethernet oam configuration, on page 55	Displays the current active Ethernet OAM configuration on an interface.
show ethernet oam statistics, on page 64	Displays the local and remote Ethernet OAM statistics for interfaces.
show ethernet oam interfaces, on page 61	

profile (EOAM)

To attach an Ethernet OAM profile to an interface, use the **profile** command in interface Ethernet OAM configuration mode. To remove the profile from the interface, use the no form of this command.

profile *name*

no profile *name*

Syntax Description

name	Text name of the Ethernet OAM profile to attach to the interface.

Command Default

No profile is attached.

Command Modes

Interface Ethernet OAM configuration (config-if-eoam)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

When an Ethernet OAM profile is attached to an interface using this command, all of the parameters configured for the profile are applied to the interface.

Individual parameters that are set by the profile configuration can be overridden by configuring them directly on the interface.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples

The following example shows how to attach an Ethernet OAM profile to a Gigabit Ethernet interface.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# interface gigabitethernet 0/1/5/6
RP/0/RP0/CPU0:router(config-if)# ethernet oam
RP/0/RP0/CPU0:router(config-if-eoam)# profile Profile_1
```

Related Commands	Command	Description
	ethernet oam profile, on page 30	Creates an EOAM profile and enters EOAM configuration mode.
	ethernet oam, on page 27	Enables Ethernet Link OAM, with default values, on an interface and enter interface Ethernet OAM configuration mode.
	show ethernet oam configuration, on page 55	Displays the current active Ethernet OAM configuration on an interface.
	show ethernet oam interfaces, on page 61	

require-remote

To require that certain features are enabled before an OAM session can become active, or to disable a requirement that is part of an active OAM profile, use the **require-remote** command in Ethernet OAM configuration or interface Ethernet OAM configuration mode. To remove the configuration and return to the default, use the **no** form of this command.

require-remote {mode {active| passive}| mib-retrieval| remote-loopback| link-monitoring [disabled]}

no require-remote {mode {active| passive}| mib-retrieval| remote-loopback| link-monitoring [disabled]}

Syntax Description

mode {**active**	**passive**}	Requires that active or passive mode is configured on the peer device before the OAM profile can become active.
mib-retrieval	Requires that MIB-retrieval is configured on the peer device before the OAM profile can become active.
remote-loopback	Requires that remote-loopback is configured on the peer device before the OAM profile can become active.
link-monitoring	Requires that link-monitoring feature is configured on the peer device before the OAM profile can become active.
disabled	(Optional—Interface Ethernet OAM configuration only) Overrides the Ethernet OAM profile configuration for this option and disables the feature at the specified interface.

Command Default   No default behavior or values

Command Modes   Ethernet OAM configuration (config-eoam)

Interface Ethernet OAM configuration (config-if-eoam)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines   To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

The **disabled** keyword is available only when you are configuring Ethernet OAM on an interface, and is used to override the configuration that is part of an active OAM profile.

The **disabled** keyword does not remove the configuration of the command. Use the **no** form of this command to do that.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples

The following example shows how to require that specific features are enabled before an OAM session can become active

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# require-remote mode active
RP/0/RP0/CPU0:router(config-eoam)# require-remote mib-retrieval
RP/0/RP0/CPU0:router(config-eoam)# require-remote link-monitoring
```

The following example shows how to disable requirements on a particular interface that is part of an active OAM profile:

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# interface gigabitethernet 0/6/5/0
RP/0/RP0/CPU0:router(config-if)# ethernet oam
RP/0/RP0/CPU0:router(config-if-eoam)# require-remote mode active disabled
RP/0/RP0/CPU0:router(config-if-eoam)# require-remote mib-retrieval disabled
RP/0/RP0/CPU0:router(config-if-eoam)# require-remote link-monitoring disabled
```

Related Commands

Command	Description
ethernet oam profile, on page 30	Creates an EOAM profile and enters EOAM configuration mode.
ethernet oam, on page 27	Enables Ethernet Link OAM, with default values, on an interface and enter interface Ethernet OAM configuration mode.
profile (EOAM), on page 49	Attaches an Ethernet OAM profile to an interface.
action capabilities-conflict, on page 3	Configures what action is taken on an interface when a capabilities-conflict event occurs.
show ethernet oam configuration, on page 55	Displays the current active Ethernet OAM configuration on an interface.
show ethernet oam discovery, on page 58	Displays the currently configured OAM information of Ethernet OAM sessions on interfaces.
show ethernet oam interfaces, on page 61	

show efd interface

To display all interfaces that are shut down because of Ethernet Fault Detection (EFD), or to display whether a specific interface is shut down because of EFD, use the **show efd interface** command in XR EXEC mode.

show efd interface [*type interface-path-id*]

Syntax Description

type	(Optional) Interface type. For more information, use the question mark (**?**) online help function.
interface-path-id	Physical interface or virtual interface.
	Note Use the show interfaces command to see a list of all interfaces currently configured on the router.
	For more information about the syntax for the router, use the question mark (?) online help function.

Command Default If no parameters are specified, all interfaces that are shut down because of EFD are displayed.

Command Modes XR EXEC

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

If this command is issued when no EFD errors are detected, the system displays the following message:

```
< date time >
No matching interfaces with EFD-shutdown triggered
```

Task ID

Task ID	Operations
ethernet-services	read, write

Examples

The following example shows how to display all interfaces that are shut down because of Ethernet Fault Detection (EFD):

```
RP/0/RP0/CPU0:router# show efd interfaces

Server VLAN MA
==============
Interface        Clients
-----------------------
GigE0/0/0/0.0    CFM
```

Related Commands

Command	Description
efd	Enables EFD on all down MEPs in a down MEPs service.
log efd	Enables logging of EFD state changes to an interface (such as when an interface is shut down or brought up via EFD).

show ethernet oam configuration

To display the current active Ethernet OAM configuration on an interface, use the **show ethernet oam configuration** command in EXEC mode.

show ethernet oam configuration [**interface** *type interface-path-id*]

Syntax Description

interface *type*	(Optional) Displays information about the specified interface type. For more information, use the question mark (**?**) online help function.
interface-path-id	(Optional) Physical interface or virtual interface. **Note** Use the **show interfaces** command to see a list of all interfaces currently configured on the router. For more information about the syntax for the router, use the question mark (**?**) online help function.

Command Default

If no parameters are specified, the configurations for all Ethernet OAM interfaces is displayed.

Command Modes

XR EXEC

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

This command displays the Ethernet OAM configuration information for all interfaces, or a specified interface.

Task ID

Task ID	Operations
ethernet-services	read

Examples

The following example shows how to display Ethernet OAM configuration information for a specific interface:

```
RP/0/RP0/CPU0:router# show ethernet oam configuration interface gigabitethernet 0/4/0/0
Thu Aug  5 21:54:34.050 DST
GigabitEthernet0/4/0/0:
```

```
                    Hello interval:                                    1s
                    Link monitoring enabled:                            Y
                    Remote loopback enabled:                            N
                    Mib retrieval enabled:                              N
                    Uni-directional link-fault detection enabled:       N
                    Configured mode:                               Active
                    Connection timeout:                                 5
                    Symbol period window:                               0
                    Symbol period low threshold:                        1
                    Symbol period high threshold:                    None
                    Frame window:                                    1000
                    Frame low threshold:                                1
                    Frame high threshold:                            None
                    Frame period window:                             1000
                    Frame period low threshold:                         1
                    Frame period high threshold:                     None
                    Frame seconds window:                           60000
                    Frame seconds low threshold:                        1
                    Frame seconds high threshold:                    None
                    High threshold action:                           None
                    Link fault action:                                Log
                    Dying gasp action:                                Log
                    Critical event action:                            Log
                    Discovery timeout action:                         Log
                    Capabilities conflict action:                     Log
                    Wiring conflict action:                  Error-Disable
                    Session up action:                                Log
                    Session down action:                              Log
                    Remote loopback action:                           Log
                    Require remote mode:                           Ignore
                    Require remote MIB retrieval:                       N
                    Require remote loopback support:                    N
                    Require remote link monitoring:                     N
```

The following example shows how to display the configuration for all EOAM interfaces:

```
RP/0/RP0/CPU0:router# show ethernet oam configuration
Thu Aug  5 22:07:06.870 DST
GigabitEthernet0/4/0/0:
    Hello interval:                                    1s
    Link monitoring enabled:                            Y
    Remote loopback enabled:                            N
    Mib retrieval enabled:                              N
    Uni-directional link-fault detection enabled:       N
    Configured mode:                               Active
    Connection timeout:                                 5
    Symbol period window:                               0
    Symbol period low threshold:                        1
    Symbol period high threshold:                    None
    Frame window:                                    1000
    Frame low threshold:                                1
    Frame high threshold:                            None
    Frame period window:                             1000
    Frame period low threshold:                         1
    Frame period high threshold:                     None
    Frame seconds window:                           60000
    Frame seconds low threshold:                        1
    Frame seconds high threshold:                    None
    High threshold action:                           None
    Link fault action:                                Log
    Dying gasp action:                                Log
    Critical event action:                            Log
    Discovery timeout action:                         Log
    Capabilities conflict action:                     Log
    Wiring conflict action:                  Error-Disable
    Session up action:                                Log
    Session down action:                              Log
    Remote loopback action:                           Log
    Require remote mode:                           Ignore
    Require remote MIB retrieval:                       N
    Require remote loopback support:                    N
```

```
        Require remote link monitoring:                              N
```

Related Commands

Command	Description
show ethernet oam discovery, on page 58	Displays the currently configured OAM information of Ethernet OAM sessions on interfaces.
show ethernet oam statistics, on page 64	Displays the local and remote Ethernet OAM statistics for interfaces.
show ethernet oam interfaces, on page 61	

show ethernet oam discovery

To display the currently configured OAM information of Ethernet OAM sessions on interfaces, use the **show ethernet oam discovery** command in EXEC mode.

show ethernet oam discovery [**brief**| **interface** *type interface-path-id* [**remote**]]

Syntax Description

brief	Displays minimal, currently configured OAM information in table form.
interface *type*	(Optional) Displays information about the specified interface type. For more information, use the question mark (**?**) online help function.
interface-path-id	Physical interface or virtual interface. **Note** Use the **show interfaces** command to see a list of all interfaces currently configured on the router. For more information about the syntax for the router, use the question mark (**?**) online help function.
remote	(Optional) Retrieves and displays information from a remote device, as if the command was run on the remote device.

Command Default Displays detailed information for Ethernet OAM sessions on all interfaces.

Command Modes XR EXEC

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operations
ethernet-services	read

Examples   The following example shows how to display the minimal, currently configured OAM information for Ethernet OAM sessions on all interfaces:

```
RP/0/RP0/CPU0:router# show ethernet oam discovery brief

Sat Jul  4 13:52:42.949 PST
Flags:
    L - Link Monitoring support
    M - MIB Retrieval support
    R - Remote Loopback support
    U - Unidirectional detection support
    * - data is unavailable

Local                   Remote        Remote
Interface               MAC Address   Vendor Mode    Capability
---------------------- ------------- ------ ------- ----------
Gi0/1/5/1               0010.94fd.2bfa 00000A Active  L
Gi0/1/5/2               0020.95fd.3bfa 00000B Active  M
Gi0/1/6/1               0030.96fd.6bfa 00000C Passive L R
Fa0/1/3/1               0080.09ff.e4a0 00000C Active  L R
```

The following example shows how to display detailed, currently configured OAM information for the Ethernet OAM session on a specific interface:

```
RP/0/RP0/CPU0:router# show ethernet oam discovery interface gigabitethernet 0/1/5/1

Sat Jul  4 13:56:49.967 PST
GigabitEthernet0/1/5/1:
Local client
------------
  Administrative configuration:
    PDU revision:                     1
    Mode:                        Active
    Unidirectional support:           N
    Link monitor support:             Y
    Remote loopback support:          N
    MIB retrieval support:            N
    Maximum PDU size:              1500
    Mis-wiring detection key:      5E9D

Operational status:
    Port status:             Active send
    Loopback status:                None
    Interface mis-wired:              N

Remote client
-------------
  MAC address:              0030.96fd.6bfa
  Vendor (OUI):             00.00.0C (Cisco)

  Administrative configuration:
    PDU revision:                     5
    Mode:                       Passive
    Unidirectional support:           N
    Link monitor support:             Y
    Remote loopback support:          Y
    MIB retrieval support:            N
    Maximum PDU size:              1500
```

Related Commands

Command	Description
show ethernet oam configuration, on page 55	Displays the current active Ethernet OAM configuration on an interface.

Command	Description
show ethernet oam statistics, on page 64	Displays the local and remote Ethernet OAM statistics for interfaces.
show ethernet oam interfaces, on page 61	

show ethernet oam interfaces

To display the current state of Ethernet OAM interfaces, use the **show ethernet oam interfaces** command in EXEC mode.

show ethernet oam interfaces [**interface** *type interface-path-id*]

Syntax Description

interface *type*	(Optional) Displays information about the specified interface type. For more information, use the question mark (**?**) online help function.
interface-path-id	Physical interface or virtual interface.
	Note Use the **show interfaces** command to see a list of all interfaces currently configured on the router.
	For more information about the syntax for the router, use the question mark (**?**) online help function.

Command Default

No parameters displays the current state for all Ethernet OAM interfaces.

Command Modes

XR EXEC

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operations
ethernet-services	read

Examples

The following example shows how to display the current state for all Ethernet OAM interfaces:

```
RP/0/RP0/CPU0:router# show ethernet oam interfaces
GigabitEthernet0/0/0/0
In REMOTE_OK state
Local MWD key: 80081234
Remote MWD key: 8F08ABCC
```

```
EFD triggered: Yes (link-fault)
```

Table 1: show ethernet oam interfaces Field Descriptions

Field	Description
In *type* state	The possible discovery state *type* values are: • ACTIVE_SEND_LOCAL—The interface is configured in active mode (the default), but no Information PDUs have been received from the peer (except possibly link-fault PDUs). Information PDUs are sent. • FAULT—A local unidirectional link fault has been detected. Link-fault PDUs are sent. • INACTIVE—The interface is down. • PASSIVE_WAIT—The interface is configured in passive mode (**mode passive** command) but no Information PDUs have been received from the peer (except possibly link-fault PDUs). No PDUs are sent. • REMOTE—(Also known as SEND_LOCAL_REMOTE). Information PDUs are being sent and received, but the local device is not satisfied with the remote peer's capabilities (for example, because there is a 'require-remote' configuration and the peer does not have the required capabilities). • REMOTE_OK—(Also known as SEND_LOCAL_REMOTE_OK). Information PDUs are being sent and received, and the local device is satisfied with the peer's capabilities, but the remote peer is not satisfied with the local device capabilities (for example, because there is a 'require-remote' configuration on the peer device). • SEND_ANY—The discovery process has completed, both devices are satisfied with the configuration and the session is up. All types of PDU can be sent and received.

Field	Description
EFD triggered	Indicates if an Ethernet Fault Detection (EFD) event has occurred on the interface and the type of fault that triggered the interface to be moved to the down state for the line protocol. The possible EFD trigger events are: • capabilities-conflict • discovery-timeout • link-fault • session-down • wiring-conflict

Related Commands

Command	Description
show ethernet oam configuration, on page 55	Displays the current active Ethernet OAM configuration on an interface.
show ethernet oam discovery, on page 58	Displays the currently configured OAM information of Ethernet OAM sessions on interfaces.
show ethernet oam statistics, on page 64	Displays the local and remote Ethernet OAM statistics for interfaces.

show ethernet oam statistics

To display the local and remote Ethernet OAM statistics for interfaces, use the **show ethernet oam statistics** command in EXEC mode.

show ethernet oam statistics [**interface** *type interface-path-id* [**remote**]]

Syntax Description

interface *type*	(Optional) Displays information about the specified interface type. For more information, use the question mark (**?**) online help function.
interface-path-id	Physical interface or virtual interface.
	Note Use the **show interfaces** command to see a list of all interfaces currently configured on the router.
	For more information about the syntax for the router, use the question mark (**?**) online help function.
remote	(Optional) Retrieves and displays information from a remote device, as if the command was run on the remote device.

Command Default

No parameters displays statistics for all Ethernet OAM interfaces.

Command Modes

XR EXEC

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operations
ethernet-services	read

Examples

The following example shows how to display Ethernet OAM statistics for a specific interface:

```
RP/0/RP0/CPU0:router# show ethernet oam statistics interface gigabitethernet 0/1/5/1
```

```
          GigabitEthernet0/1/5/1:
          Counters
          --------
              Information OAMPDU Tx                        161177
              Information OAMPDU Rx                        151178
              Unique Event Notification OAMPDU Tx              0
              Unique Event Notification OAMPDU Rx              0
              Duplicate Event Notification OAMPDU Tx          0
              Duplicate Event Notification OAMPDU Rx          0
              Loopback Control OAMPDU Tx                       0
              Loopback Control OAMPDU Rx                       0
              Variable Request OAMPDU Tx                       0
              Variable Request OAMPDU Rx                       0
              Variable Response OAMPDU Tx                      0
              Variable Response OAMPDU Rx                      0
              Organization Specific OAMPDU Tx                  0
              Organization Specific OAMPDU Rx                  0
              Unsupported OAMPDU Tx                           45
              Unsupported OAMPDU Rx                            0
              Frames Lost due to OAM                          23
              Fixed frames Rx                                  1

       Local event logs
       ----------------
              Errored Symbol Period records                   0
              Errored Frame records                           0
              Errored Frame Period records                    0
              Errored Frame Second records                    0

       Remote event logs
       -----------------
              Errored Symbol Period records                   0
              Errored Frame records                           0
              Errored Frame Period records                    0
              Errored Frame Second records                    0
```

Related Commands

Command	Description
show ethernet oam configuration, on page 55	Displays the current active Ethernet OAM configuration on an interface.
show ethernet oam discovery, on page 58	Displays the currently configured OAM information of Ethernet OAM sessions on interfaces.
show ethernet oam interfaces, on page 61	

snmp-server traps ethernet oam events

To enable SNMP traps for Ethernet OAM events, use the **snmp-server traps ethernet oam events** command in XR Config mode.

snmp-server traps ethernet oam events

Syntax Description   This command has no keywords or arguments.

Command Default   Ethernet OAM event traps are not enabled.

Command Modes   XR config

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines   To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operations
snmp	read, write

Examples   The following example shows how to enable SNMP server traps on an Ethernet OAM interface.

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# snmp-server traps ethernet oam events
```

symbol-period threshold

To configure the thresholds that trigger an Ethernet OAM symbol-period error event, use the **symbol-period threshold** command in Ethernet OAM link monitor configuration mode. To return the threshold to the default value, use the **no** form of this command.

symbol-period threshold low *threshold* [**high t** *hreshold*]

no symbol-period threshold low *threshold* [**high t** *hreshold*]

Syntax Description

low *threshold*	Low threshold value, in symbols, that triggers a symbol-period error event. The range is 0 to 60000000.
high *threshold*	(Optional) High threshold value, in symbols, that triggers a symbol-period error event. The range is 0 to 60000000. The high threshold value can be configured only in conjunction with the low threshold value.

Command Default   The default low threshold is 1.

Command Modes   Ethernet OAM link monitor configuration (config-eoam-lm)

Interface Ethernet OAM link monitor configuration (config-if-eoam-lm)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines   To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

When the low threshold is passed, a symbol-period error event notification is generated and transmitted to the OAM peer. Additionally, any registered higher level OAM protocols, such as Connectivity Fault Management (CFM), are also notified. When the high threshold is passed, the configured high threshold action is performed in addition to the low threshold actions. The high threshold is optional and is configurable only in conjunction with the low threshold.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples   The following example shows how to configure the symbol-period low and high thresholds that trigger a symbol-period error event:

```
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# link-monitor
RP/0/RP0/CPU0:router(config-eoam-lm)# symbol-period threshold low 100 high 6000
```

symbol-period window

To configure the window size for an Ethernet OAM symbol-period error event, use the **symbol-period window** command in Ethernet OAM link monitor or interface Ethernet OAM link monitor configuration mode. To return the window size to the default value, use the **no** form of this command.

symbol-period window *window*

no symbol-period window *window*

Syntax Description

window	Size of the window for symbol-period error in milliseconds. The range is 1000 to 60000.

Command Default The default value is 1000.

Command Modes Ethernet OAM link monitor configuration (config-eoam-lm)

Interface Ethernet OAM link monitor configuration (config-if-eoam-lm)

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operations
ethernet-services	read, write

Examples The following example shows how to configure the window size for a symbol-period error.

```
RP/0/RP0/CPU0:router(config)# ethernet oam profile Profile_1
RP/0/RP0/CPU0:router(config-eoam)# link-monitor
RP/0/RP0/CPU0:router(config-eoam-lm)# symbol-period window 60000
```

symbol-period window