



# Ethernet Services Commands

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This module describes the command line interface (CLI) commands for configuring ethernet services on the Cisco 8000 Series Routers.

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# aps-channel

To configure G.8032 instance APS channel and to enter Ethernet ring G.8032 instance aps-channel configuration submode, use the **aps-channel** command in the Ethernet ring g8032 instance configuration submode. To remove the G.8032 instance APS channel configuration, use the **no** form of this command.

```
aps-channel [ level message-level | port0 interface { Bundle-Ether | FastEthernet |
GigabitEthernet | TenGigE } interface-id | port1 { bridge-domain bridge-domain-name | interface
{ Bundle-Ether | FastEthernet | GigabitEthernet | TenGigE } interface-id | none | xconnect
xconnect-name } ]
no aps-channel [ level message-level | port0 interface { Bundle-Ether | FastEthernet |
GigabitEthernet | TenGigE } interface-id | port1 { bridge-domain bridge-domain-name | interface
{ Bundle-Ether | FastEthernet | GigabitEthernet | TenGigE } interface-id | none | xconnect
xconnect-name } ]
```

Syntax Description	Parameter	Description
	<b>level</b>	Specifies the APS message level. The message level ranges from 0 to 7.
	<b>port0</b>	Configures G.8032 aps-channel information associated to port0.
	<b>port1</b>	Configures G.8032 aps-channel information associated to port1.
	<b>interface</b>	Assigns interface associated to port0 or port1. You can assign one of these interfaces: <ul style="list-style-type: none"> <li>• Bundle Ethernet</li> <li>• Fast Ethernet</li> <li>• Gigabit Ethernet</li> <li>• TenGigabit Ethernet</li> </ul>
	<b>bridge-domain</b>	Specifies VPLS domain where virtual channel is connected.
	<b>none</b>	Specify APS channel port0 or port1 as none.
	<b>xconnect</b>	Specifies VPWS xconnect where virtual channel is connected.

**Command Default** None

**Command Modes** L2VPN configuration mode

Command History	Release	Modification
	Release 24.2.11	This command was introduced.

**Usage Guidelines** To use commands of this module, 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 any command, contact your AAA administrator for assistance.

Task ID	Task ID	Operation
	l2vpn	read, write

### Examples

This example shows how to configure G.8032 instance APS channel:

```
Router#configure
Router(config)# l2vpn
Router(config-l2vpn)# ethernet ring g8032 r1
Router(config-l2vpn-erp)# instance 1
Router(config-l2vpn-erp-instance)# description test
Router(config-l2vpn-erp-instance)# profile p1
Router(config-l2vpn-erp-instance)# rpl port0 neighbor
Router(config-l2vpn-erp-instance)# inclusion-list vlan-ids e-g
Router(config-l2vpn-erp-instance)# aps-channel
Router(config-l2vpn-erp-instance-aps)#
```

## description (G.8032)

To specify a string that serves as a description for a G.8032 Ethernet ring instance, use the **description** command in the Ethernet ring G.8032 instance configuration submode.

**description** *ring-instance-identifier*

---

<b>Syntax Description</b>	<i>ring-instance-identifier</i> A string that serves as a description for a G.8032 Ethernet ring instance. The string can be a maximum of 32 characters.
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<b>Command Default</b>	None
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<b>Command Modes</b>	Ethernet ring G.8032 instance configuration submode
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<b>Command History</b>	<table> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>Release 24.2.11</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	Release 24.2.11	This command was introduced.
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Task ID	Operation				
l2vpn	read, write				

---

<b>Examples</b>	This example shows how to specify a description for G.8032 Ethernet ring instance:
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```
Router#configure
Router(config)# l2vpn
Router(config-l2vpn)# ethernet ring g8032 r1
Router(config-l2vpn-erp)# instance 1
Router(config-l2vpn-erp-instance)# description test
Router(config-l2vpn-erp-instance)#
```

# ethernet ring g8032

To enable G.8032 ring mode and enter the G.8032 configuration submodule, use the **ethernet ring g8032** command in the L2VPN configuration mode. To disable the G.8032 ring mode, use the **no** form of this command.

```
ethernet ring g8032 protocol ring identifier
no ethernet ring g8032 protocol ring identifier
```

<b>Syntax Description</b>	<i>protocol ring identifier</i> Ring profile name. The maximum size of the profile name is 32 characters.				
<b>Command Default</b>	None				
<b>Command Modes</b>	L2VPN configuration mode				
<b>Command History</b>	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>Release 24.2.11</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	Release 24.2.11	This command was introduced.
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Task ID	Operation				
l2vpn	read, write				
<b>Examples</b>	<p>This example shows how to enable the G.8032 ring mode:</p> <pre>Router#configure Router(config)#l2vpn Router(config-l2vpn)#ethernet ring g8032 p1 Router(config-l2vpn-erp)#</pre>				

## ethernet ring g8032 profile

To configure G.8032 ring profile and to enter the G.8032 ring profile configuration mode, use the **ethernet ring g8032 profile** command in the global configuration mode. To disable the G.8032 ring profile, use the **no** form of this command.

```
ethernet ring g8032 profile profile-name [ non-revertive | timer { guard milliseconds | hold-off seconds | wtr minutes } ]
```

Syntax Description		
	<b>non-revertive</b>	Configures non-revertive ring instance.
	<b>timer</b>	Configures G.8032 timer.
	<b>guard</b>	Configures G.8032 guard timer. The Guard timer can be configured and the default time interval is 500 ms. The time interval ranges from 10 to 2000 ms.
	<b>hold-off</b>	Configures G.8032 hold-off timer. The hold-off timer can be configured and the default time interval is 0 seconds. The time interval ranges from 0 to 10 seconds.
	<b>wtr</b>	Configures G.8032 WTR timer. The WTR timer can be configured by the operator, and the default time interval is 5 minutes. The time interval ranges from 1 to 12 minutes.

**Command Default** None

### Command Modes

Command History	Release	Modification
	Release 24.2.11	This command was introduced.

**Usage Guidelines** To use commands of this module, 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 any command, contact your AAA administrator for assistance.

Task ID	Task ID	Operation
	ethernet-services	read, write

### Examples

This example shows you how to configure a G.8032 ring profile:

```
Router# configure
Router(config)# ethernet ring g8032 profile p1
Router(config-g8032-ring-profile)#
```

## exclusion list

To define a set of Virtual LAN (VLAN) IDs that are not protected by the Ethernet ring protection mechanism, use the **exclusion list** command in Ethernet ring g8032 configuration submode. To delete the set of VLAN IDs, use the **no** form of this command.

```
exclusion list vlan-ids vlan range
no exclusion list vlan-ids vlan range
```

<b>Syntax Description</b>	<p><b>vlan-ids</b> Specifies a list of VLANs. Ranges in the form a-b,c,d,e-f,g where VLAN value is 1–4094 and/or untagged.</p> <p>By default, all the VLANs configured under ring ports are blocked. VLAN IDs specified here cannot belong to the inclusion-list. VLAN IDs range cannot overlap with the IDs specified under inclusion-list.</p>
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<b>Command Default</b>	Configured physical Ethernet or ether bundle interface
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<b>Command Modes</b>	Ethernet ring g8032 configuration submode
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	Release 24.2.11	This command was introduced.

<b>Usage Guidelines</b>	To use commands of this module, 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 any command, contact your AAA administrator for assistance.
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<b>Task ID</b>	<b>Task ID</b>	<b>Operation</b>
	l2vpn	read, write

<b>Examples</b>	This example shows the output from the exclusion list command:
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```
Router# configure
Router(config)# l2vpn
Router(config-l2vpn)# ethernet ring g8032 r1
Router(config-l2vpn-erp)# exclusion-list vlan-ids e-g
Router(config-l2vpn-erp)#
```

# inclusion-list

To associate a set of VLAN IDs with the current instance, use the **inclusion-list** command in the Ethernet ring G.8032 instance configuration submenu. To disassociate the VLAN IDs with the current instance, use the **no** form of this command.

**inclusion-list** **vlan-ids** *vlan-id*  
**no inclusion-list** **vlan-ids** *vlan-id*

<b>Syntax Description</b>	<b>vlan-ids</b> Associates a set of VLAN IDs with the current instance.	
	<i>vlan-id</i> List of VLAN IDs in the form <code>vlan-id &lt;vlan range&gt;[,&lt;vlan range&gt;][,&lt;vlan range&gt;][,&lt;vlan range&gt;]</code> .	
<b>Command Default</b>	None	
<b>Command Modes</b>	Ethernet ring G.8032 instance configuration submenu	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	Release 24.2.11	This command was introduced.
<b>Usage Guidelines</b>	To use commands of this module, 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 any command, contact your AAA administrator for assistance.	
<b>Task ID</b>	<b>Task ID</b>	<b>Operation</b>
	l2vpn	read, write
<b>Examples</b>	This example shows how to associate VLAN IDs with instance 1:	

```
Router#configure
Router(config)# l2vpn
Router(config-l2vpn)# ethernet ring g8032 r1
Router(config-l2vpn-erp)# instance 1
Router(config-l2vpn-erp-instance)# description test
Router(config-l2vpn-erp-instance)# profile p1
Router(config-l2vpn-erp-instance)# rpl port0 neighbor
Router(config-l2vpn-erp-instance)# inclusion-list vlan-ids e-g
```



## instance (G.8032)

To configure a G.8032 Ethernet ring instance and enter Ethernet ring G.8032 instance configuration submode, use the `instance` command in the Ethernet ring G.8032 configuration submode. To disable the G.8032 Ethernet ring instance, use the `no` form of this command.

**instance** *instance-id*  
**no instance** *instance-id*

<b>Syntax Description</b>	<i>instance-id</i> Instance ID; currently, supports up to two instances per Ethernet ring. The instance ID can be 1 or 2.				
<b>Command Default</b>	None				
<b>Command Modes</b>	Ethernet ring G.8032 configuration submode				
<b>Command History</b>	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>Release 24.2.11</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	Release 24.2.11	This command was introduced.
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Task ID	Operation				
l2vpn	read, write				
<b>Examples</b>	<p>This example shows how to configure G.8032 Ethernet ring instance:</p> <pre>Router#configure Router(config)# l2vpn Router(config-l2vpn)# ethernet ring g8032 r1 Router(config-l2vpn-erp)# instance 1 Router(config-l2vpn-erp-instance)#</pre>				

# level

To specify the APS message level, use the **level** command in the Ethernet ring G.8032 instance `aps-channel` configuration submode.

**level** *number*

<b>Syntax Description</b>	<i>number</i> The APS message level. The range is from between 0 to 7.
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<b>Command Default</b>	None
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<b>Command Modes</b>	Ethernet ring G.8032 instance <code>aps-channel</code> configuration submode
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	Release 24.2.11	This command was introduced.

<b>Usage Guidelines</b>	To use commands of this module, 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 any command, contact your AAA administrator for assistance.
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<b>Task ID</b>	<b>Task ID</b>	<b>Operation</b>
	l2vpn	read, write

<b>Examples</b>	This example shows how to enable the G.8032 ring mode:
-----------------	--

```
Router#configure
Router(config)# l2vpn
Router(config-l2vpn)# ethernet ring g8032 r1
Router(config-l2vpn-erp)# instance 1
Router(config-l2vpn-erp-instance)# description test
Router(config-l2vpn-erp-instance)# profile p1
Router(config-l2vpn-erp-instance)# rpl port0 neighbor
Router(config-l2vpn-erp-instance)# inclusion-list vlan-ids e-g
Router(config-l2vpn-erp-instance)# aps-channel
Router(config-l2vpn-erp-instance-aps)# level 3
```

## monitor interface (port0)

To specify a port to detect a ring link failure, use the **monitor interface** command in g8032 port0 submode. To delete the port, use the **no** form of this command.

```
monitor interface interface-name
no monitor interface interface-name
```

<b>Syntax Description</b>	<i>interface-name</i> Name of the monitored interface. The monitored interface must be a sub-interface of the main interface.				
<b>Command Default</b>	Configured physical Ethernet or Ether Bundle interface				
<b>Command Modes</b>	Ethernet ring g8032 port0 submode				
<b>Command History</b>	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>Release 24.2.11</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	Release 24.2.11	This command was introduced.
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Task ID	Operation				
l2vpn	read, write				
<b>Examples</b>	This example shows the output from the monitor interface command:				

```
Router# configure
Router(config)# l2vpn
Router(config-l2vpn)# ethernet ring g8032 g1
Router(config-l2vpn-erp)# port0 interface TenGigE 0/0/0/0
Router(config-l2vpn-erp-port0)# monitor interface GigabitEthernet 0/0/0/0.5
Router(config-l2vpn-erp-port0)# exit
Router(config-l2vpn-erp)# exit
Router(config-l2vpn)# exit
Router(config)# ethernet cfm
Router(config-cfm)# domain dom23to24 level 6
Router(config-cfm-domain)# service ser23to24 down-meps
Router(config-cfm-svc)# continuity-check interval 10s
Router(config-cfm-svc)# mep crosscheck
Router(config-cfm-svc-xcheck)# mep-id 3
Router(config-cfm-svc-xcheck)# exit
Router(config-cfm-svc)# efd
Router(config-cfm-svc)# exit
Router(config-cfm)# exit
Router(config)# interface Gigabiteethernet0/0/0/0.5
```

```
Router(config-if)# ethernet cfm  
Router(config-if-cfm)# mep domain dom23to24 service ser23to24 mep-id 4
```

## monitor interface (port1)

To specify the port to detect a ring link failure, use the **monitor interface** command in g8032 port1 submode. To delete the port, use the **no** form of this command.

**monitor interface** *interface-name*  
**no monitor interface** *interface-name*

<b>Syntax Description</b>	<i>interface-name</i> Name of the monitored interface. The monitored interface must be a sub-interface of the main interface.				
<b>Command Default</b>	Configured physical Ethernet or ether bundle interface				
<b>Command Modes</b>	Ethernet ring g8032 port1 submode				
<b>Command History</b>	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>Release 24.2.11</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	Release 24.2.11	This command was introduced.
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Task ID	Operation				
l2vpn	read, write				
<b>Examples</b>	<p>This example shows the output from the monitor interface command:</p> <pre>Router# configure Router(config)# l2vpn Router(config-l2vpn)# ethernet ring g8032 g1 Router(config-l2vpn-erp)# port1 interface TenGigE 0/0/0/1 Router(config-l2vpn-erp-port1)# monitor interface GigabitEthernet 0/0/0/1.5 Router(config-l2vpn-erp-port1)#exit Router(config-l2vpn-erp)# exit Router(config-l2vpn)# exit Router(config)# ethernet cfm Router(config-cfm)# domain dom23to24 level 6 Router(config-cfm-domain)# service ser23to24 down-meps Router(config-cfm-svc)# continuity-check interval 10s Router(config-cfm-svc)# mep crosscheck Router(config-cfm-svc-xcheck)# mep-id 3 Router(config-cfm-svc-xcheck)# exit Router(config-cfm-svc)# efd Router(config-cfm-svc)# exit Router(config-cfm)# exit Router(config)# interface GigabitEthernet0/0/0/1.5</pre>				

```
Router(config-if)# ethernet cfm  
Router(config-if-cfm)# mep domain dom23to24 service ser23to24 mep-id 5
```

# open ring

To specify Ethernet ring g8032 as an open ring, use the **open-ring** command in Ethernet ring g8032 configuration submodule. To delete, use the **no** form of this command.

**open-ring**  
**no open-ring**

This command has no keywords or arguments.

---

## Command Default

The default value is FALSE.

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## Command Modes

Ethernet ring g8032 configuration submodule

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## Command History

Release	Modification
Release 24.2.11	This command was introduced.

---

## Usage Guidelines

To use commands of this module, 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 any command, contact your AAA administrator for assistance.

---

## Task ID

Task ID	Operation
l2vpn	read, write

---

## Examples

This example shows the output from the **open-ring** command:

```
Router# configure
Router(config)# l2vpn
Router(config-l2vpn)# ethernet ring g8032 g1
Router(config-l2vpn-erp)# open-ring
Router(config-l2vpn-erp)#
```

## port0 interface

To enable G.8032 for a specified ring port, use the **port0 interface** command in g8032 configuration port0 submode. To disable, use the **no** form of this command.

**port 0 interface** *interface name*  
**no port 0 interface** *interface name*

### Syntax Description

*interface name* Any physical Ethernet or Bundle Ethernet interface. A physical port of the local node connected to G.8032 ring.

### Command Default

None

### Command Modes

Ethernet ring g8032 configuration port0 submode

### Command History

Release	Modification
Release 24.2.11	This command was introduced.

### Usage Guidelines

To use commands of this module, 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 any command, contact your AAA administrator for assistance.

### Task ID

Task ID	Operation
l2vpn	read, write

### Examples

This example shows the output from the port0 interface command:

```
Router# configure
Router(config)# l2vpn
Router(config-l2vpn)# ethernet ring g8032 g1
Router(config-l2vpn-erp)# port0 interface Bundle-Ether 555
Router(config-l2vpn-erp-port0)#
```



# port1

To enable G.8032 for a specified ring port, use the **port1** command in g8032 configuration port1 submode. To disable, use the **no** form of this command.

```
port1 { interface interface name | none }
```

<b>Syntax Description</b>	<b>interface</b> <i>interface name</i>	Specifies physical Ethernet or Bundle Ethernet interface. A physical port of the local node connected to G.8032 ring. Enables G.8032 for the specified physical port to form a closed ring.				
	<b>none</b>	Specifies local node endpoint of an open-ring.				
<b>Command Default</b>	None					
<b>Command Modes</b>	Ethernet ring g8032 configuration port1 submode					
<b>Command History</b>	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>Release 24.2.11</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	Release 24.2.11	This command was introduced.	
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Task ID	Operation					
l2vpn	read, write					

## Examples

This example shows the output from the port1 command:

```
Router# configure
Router(config)# l2vpn
Router(config-l2vpn)# ethernet ring g8032 g1
Router(config-l2vpn-erp)# port1 interface TenGigE 0/6/0/3
Router(config-l2vpn-erp-port1)#
```

# profile

To specify an associated Ethernet ring G.8032 profile, use the **profile** command in the Ethernet ring G.8032 instance configuration submode.

**profile** *profile-name*

<b>Syntax Description</b>	<i>profile-name</i> Ethernet ring G.8032 profile name.				
<b>Command Default</b>	None				
<b>Command Modes</b>	Ethernet ring G.8032 instance configuration submode				
<b>Command History</b>	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>Release 24.2.11</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	Release 24.2.11	This command was introduced.
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**Usage Guidelines** To use commands of this module, 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 any command, contact your AAA administrator for assistance.

Task ID	Task ID	Operation
	l2vpn	read, write

## Examples

This example shows how to specify a G.8032 ring profile name:

```
Router#configure
Router(config)# l2vpn
Router(config-l2vpn)# ethernet ring g8032 r1
Router(config-l2vpn-erp)# instance 1
Router(config-l2vpn-erp-instance)# description test
Router(config-l2vpn-erp-instance)# profile p1
Router(config-l2vpn-erp-instance)#
```

# rpl

To specify one ring port on local node being RPL owner, neighbor or next-neighbor, use the **rpl** command in the Ethernet ring G.8032 instance configuration submode. To disable the port as RPL owner, neighbor or next-neighbor, use the **no** form of this command.

```
rpl { port0 | port1 } { owner | neighbor | next-neighbor }
no rpl { port0 | port1 } { owner | neighbor | next-neighbor }
```

Syntax Description		
	<b>port0</b>	Assigns port0 as RPL owner, neighbor or next-neighbor.
	<b>port1</b>	Assigns port1 as RPL owner, neighbor or next-neighbor.
	<b>owner</b>	Assigns port0 or port1 as RPL owner.
	<b>neighbor</b>	Assigns port0 or port1 as neighbor.
	<b>next-neighbor</b>	Assigns port0 or port1 as next neighbor.

**Command Default** None

**Command Modes** Ethernet ring G.8032 instance configuration submode

Command History	Release	Modification
	Release 24.2.11	This command was introduced.

**Usage Guidelines** To use commands of this module, 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 any command, contact your AAA administrator for assistance.

Task ID	Task ID	Operation
	l2vpn	read, write

## Examples

This example shows how to assign port0 as neighbor:

```
Router#configure
Router(config)# l2vpn
Router(config-l2vpn)# ethernet ring g8032 r1
Router(config-l2vpn-erp)# instance 1
Router(config-l2vpn-erp-instance)# description test
```

```
Router(config-l2vpn-erp-instance)# profile p1  
Router(config-l2vpn-erp-instance)# rpl port0 neighbor  
Router(config-l2vpn-erp-instance)#
```

# tcn-propagation

To enable topology change notification (TCN) propagation, use the **tcn-propagation** command in the L2VPN configuration submode.

## **tcn-propagation**

This command has no keywords or arguments.

---

**Command Default** None

---

**Command Modes** L2VPN configuration submode

---

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	Release 24.2.11	This command was introduced.

---



---

**Usage Guidelines** To use commands of this module, 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 any command, contact your AAA administrator for assistance.

---

<b>Task ID</b>	<b>Task ID</b>	<b>Operation</b>
	l2vpn	read, write

---



---

**Examples** This example shows how to enable the G.8032 ring mode:

```
Router#configure
Router(config)#l2vpn
Router(config-l2vpn-erp)# tcn-propagation
Router(config-l2vpn)#
```

