



Junos[®] OS

Layer 2 Traffic Policing at the Pseudowire

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PART 1

Overview

- [Layer 2 Traffic Policing at the Pseudowire on page 3](#)

Layer 2 Traffic Policing at the Pseudowire

- [Layer 2 Traffic Policing at the Pseudowire Overview on page 3](#)

Layer 2 Traffic Policing at the Pseudowire Overview

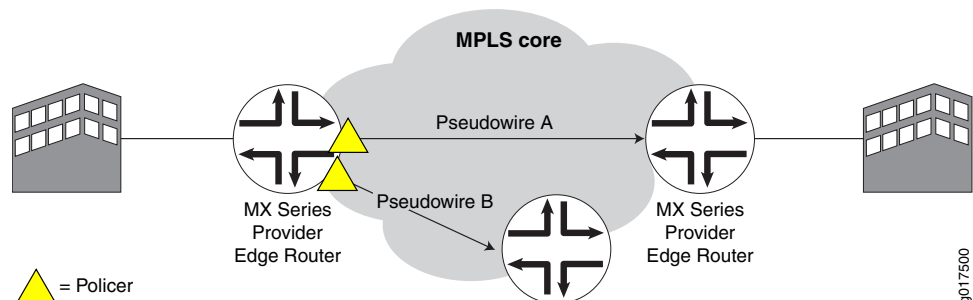
This feature limits traffic that is sent over the core by policing traffic at the Layer 2 pseudowire level. It uses dynamic profiles to attach two- or three-color policers to pseudowire logical interfaces (ifls). You apply the dynamic profiles to core-facing egress interfaces so that they can police unicast, multicast, and broadcast traffic that is going over the MPLS core.



NOTE: Pseudowire policer statistics collected by the Routing Engine, kernel, and Packet Forwarding Engine can be displayed on the Routing Engine when you execute the `show interfaces` command.

[Figure 1 on page 3](#) shows an MX Series 3D Universal Edge Router configured as a provider edge (PE) router. It communicates with other PE routers over pseudowires. It can aggregate both unicast and multicast traffic and send it over pseudowires. To limit traffic over the pseudowires, you can set up policers on each pseudowire that faces the MPLS core network.

Figure 1: Limiting Traffic to the Core Using Layer 2 Policers at the Pseudowire Level



NOTE: This feature is supported only on pseudowire logical interfaces at the egress. It is not supported on tunnel interfaces.

- Related Documentation**
- [Dynamic Profiles for VPLS Pseudowires](#)

PART 2

Configuration

- [Basic Configuration: Configuring Layer 2 Traffic Policing at the Pseudowire on page 7](#)
- [Complex Configuration: Configuring Layer 2 Traffic Policing at the Pseudowire Using Variables on page 11](#)
- [Configuration Statements for Layer 2 Traffic Policing at the Pseudowire on page 15](#)

CHAPTER 2

Basic Configuration: Configuring Layer 2 Traffic Policing at the Pseudowire

- [Configuring a Three-Color Layer 2 Policer for the Pseudowire on page 7](#)
- [Configuring a Two-Color Layer 2 Policer for the Pseudowire on page 8](#)
- [Applying the Policers to Dynamic Profile Interfaces on page 8](#)
- [Attaching the Dynamic Profiles to Routing Instances on page 10](#)

Configuring a Three-Color Layer 2 Policer for the Pseudowire

For the basic configuration of Layer 2 policers for pseudowires, create a three-color policer. This scenario shows a two-rate three-color-marking (trTCM) policer.

To configure a three-color policer:

1. Create a three-color policer.

```
[edit firewall]  
user@host# edit three-color-policer trTCM-policer
```

2. Specify that the policer is to be used on a logical interface.

```
[edit firewall three-color-policer trTCM-policer]  
user@host# set logical-interface-policer
```

3. Set the action for the policer.

```
[edit firewall three-color-policer trTCM-policer]  
user@host# set action loss-priority high then discard
```

4. Specify that the policer is a two-rate policer, and configure the policer.

```
[edit firewall three-color-policer trTCM-policer]  
user@host# edit two-rate  
user@host# set color-aware  
user@host# set committed-information-rate 10m  
user@host# set committed-burst-size 50m  
user@host# set committed-burst-size 150k  
user@host# set peak-information-rate 50m  
user@host# set peak-burst-size 450k
```

Related Documentation

- [Layer 2 Traffic Policing at the Pseudowire Overview on page 3](#)
- [Two-Rate Three-Color Policer Overview](#)
- [Configuring a Two-Color Layer 2 Policer for the Pseudowire on page 8](#)
- [Applying the Policers to Dynamic Profile Interfaces on page 8](#)
- [Attaching the Dynamic Profiles to Routing Instances on page 10](#)

Configuring a Two-Color Layer 2 Policer for the Pseudowire

For the basic configuration of Layer 2 policers for pseudowires, create a two-color policer.

To configure a two-color policer:

1. Create a two-color policer.

```
[edit firewall]  
user@host# edit policer 2color-l2-policer
```

2. Specify that the policer is to be used on a logical interface.

```
[edit firewall policer 2color-l2-policer]  
user@host# set logical-interface-policer
```

3. Configure the policer.

```
[edit firewall policer 2color-l2-policer]  
user@host# edit if-exceeding  
[edit firewall policer 2color-l2-policer if-exceeding]  
user@host# set bandwidth-limit 30m  
user@host# set burst-size-limit 300k
```

4. Set the action that the policer takes to loss-priority, and specify that the packet loss priority (PLP) is high.

```
[edit firewall policer 2color-l2-policer]  
user@host# set then loss-priority high
```

Related Documentation

- [Layer 2 Traffic Policing at the Pseudowire Overview on page 3](#)
- [Configuring a Three-Color Layer 2 Policer for the Pseudowire on page 7](#)
- [Applying the Policers to Dynamic Profile Interfaces on page 8](#)
- [Attaching the Dynamic Profiles to Routing Instances on page 10](#)

Applying the Policers to Dynamic Profile Interfaces

This configuration shows how to apply policers to a dynamic profile.

Before you can apply policers, you need to have configured your policers as described in:

- [Configuring a Three-Color Layer 2 Policer for the Pseudowire on page 7](#)
- [Configuring a Two-Color Layer 2 Policer for the Pseudowire on page 8](#)

To configure the dynamic profiles:

1. Create a dynamic profile for the three-color policer.

```
[edit dynamic-profiles]
user@host# edit pw-trTCM-policer
```

2. Create a dynamic profile interface that has a dynamic underlying interface unit.

```
[edit dynamic-profiles pw-trTCM-policer]
user@host# edit interfaces $junos-interface-ifd-name unit
$junos-underlying-interface-unit
```

3. Specify that VPLS is the protocol family.

```
[edit dynamic-profiles pw-trTCM-policer interfaces "$junos-interface-ifd-name" unit
"$junos-underlying-interface-unit"]
user@host# set family vpls
```

4. Assign the three-color policer to the dynamic profile.

```
[edit dynamic-profiles pw-trTCM-policer interfaces "$junos-interface-ifd-name" unit
"$junos-underlying-interface-unit"]
user@host# set layer2-policer output-three-color trTCM-policer
```

5. Create a dynamic profile for the two-color policer.

```
[edit dynamic-profiles]
user@host# edit pw-2color-l2-policer
```

6. Create a dynamic profile interface that has a dynamic underlying interface unit.

```
[edit dynamic-profiles pw-2color-l2-policer]
user@host# edit interfaces $junos-interface-ifd-name unit
$junos-underlying-interface-unit
```

7. Specify that VPLS is the protocol family.

```
[edit dynamic-profiles pw-2color-l2-policer interfaces "$junos-interface-ifd-name"
unit "$junos-underlying-interface-unit"]
user@host# set family vpls
```

8. Assign the two-color policer to the dynamic profile.

```
[edit dynamic-profiles pw-2color-l2-policer interfaces "$junos-interface-ifd-name"
unit "$junos-underlying-interface-unit"]
user@host# set layer2-policer output-policer 2color-l2-policer
```

**Related
Documentation**

- [Layer 2 Traffic Policing at the Pseudowire Overview on page 3](#)
- [Configuring a Three-Color Layer 2 Policer for the Pseudowire on page 7](#)
- [Configuring a Two-Color Layer 2 Policer for the Pseudowire on page 8](#)
- [Attaching the Dynamic Profiles to Routing Instances on page 10](#)

Attaching the Dynamic Profiles to Routing Instances

To bind the dynamic profile to the pseudowire, attach it to a routing instance. The routing instance can be a VPLS instance type or a virtual switch instance type. You can attach dynamic profiles to the routing instance at the VPLS protocol level, at the mesh-group level, or at the neighbor level.

Because this feature is not supported on tunnel interfaces, for VPLS routing interfaces you must include the **no-tunnel-services** statement at the **[edit routing-instances routing-instance-name protocols vpls]** hierarchy level.

- To attach the dynamic profile at the VPLS protocol level:

```
[edit routing-instances]
user@host# edit green protocols vpls associate-profile
[edit routing-instances green protocols vpls associate-profile]
user@host# set pw-2color-l2-policer
```

- To attach the dynamic profile at the mesh-group level.

```
[edit routing-instances]
user@host# edit green protocols vpls mesh-group lata-1 associate-profile
[edit routing-instances green protocols vpls mesh-group lata-1 associate-profile]
user@host# set pw-trTCM-policer
```

- To attach the dynamic profile at the neighbor level.

```
[edit routing-instances]
user@host# edit green protocols vpls mesh-group lata-1 neighbor 10.10.1.1
associate-profile
[edit routing-instances green protocols vpls mesh-group lata-1 neighbor 10.10.1.1
associate-profile]
user@host# set pw-2color-l2-policer
```

Related Documentation

- [Layer 2 Traffic Policing at the Pseudowire Overview on page 3](#)
- [Configuring a Three-Color Layer 2 Policer for the Pseudowire on page 7](#)
- [Configuring a Two-Color Layer 2 Policer for the Pseudowire on page 8](#)
- [Applying the Policers to Dynamic Profile Interfaces on page 8](#)

CHAPTER 3

Complex Configuration: Configuring Layer 2 Traffic Policing at the Pseudowire Using Variables

- [Using Variables for Layer 2 Traffic Policing at the Pseudowire Overview on page 11](#)
- [Configuring a Policer for the Complex Configuration on page 12](#)
- [Creating a Dynamic Profile for the Complex Configuration on page 12](#)
- [Attaching the Dynamic Profiles to Routing Instances for the Complex Configuration on page 13](#)

Using Variables for Layer 2 Traffic Policing at the Pseudowire Overview

To reduce the number of dynamic profiles needed to police traffic at the core, you can use a variable for the output policer in your dynamic profiles. The variable that you define is called **junos-layer2-output-policer**. The variable is a placeholder that gets filled in when the dynamic profile obtains the value from the routing instance.

To use variables for policers for Layer 2 pseudowires:

1. Create policers.
2. Create a dynamic profile and add a profile variable set to the dynamic profile.
3. In the profile variable set, assign a value to the **junos-layer2-output-policer** variable. This value is the name of one of your policers.
4. In the dynamic profile interface configuration at the **[edit dynamic-profiles *profile-name* interfaces "\$junos-interface-ifd-name" unit "\$junos-underlying-interface-unit"]** hierarchy, assign **junos-layer2-output-policer** as one of your Layer 2 policers.
5. When you attach the dynamic profile to a routing instance, assign the profile variable set that you configured in the dynamic profile as the **associate-profile** value.
6. Attach the dynamic profile and the profile variable set to the routing instance.

Related Documentation

- [Layer 2 Traffic Policing at the Pseudowire Overview on page 3](#)
- [Configuring a Policer for the Complex Configuration on page 12](#)

- [Creating a Dynamic Profile for the Complex Configuration on page 12](#)
- [Attaching the Dynamic Profiles to Routing Instances for the Complex Configuration on page 13](#)

Configuring a Policer for the Complex Configuration

For the complex configuration of Layer 2 policers for pseudowires, create a two-color policer.

To configure a two-color policer:

1. Create a two-color policer.

```
[edit firewall]
user@host# edit policer 10m-policer
```

2. Specify that the policer is to be used on a logical interface.

```
[edit firewall policer 10m-policer]
user@host# set logical-interface-policer
```

3. Configure the policer.

```
[edit firewall policer 10m-policer]
user@host# edit if-exceeding
[edit firewall policer 10m-policer if-exceeding]
user@host# set bandwidth-limit 10m
user@host# set burst-size-limit 100k
```

4. Set the action that the policer takes to loss-priority, and specify that the packet loss priority (PLP) is high.

```
[edit firewall policer 10m-policer]
user@host# set then loss-priority high
```

Related Documentation

- [Layer 2 Traffic Policing at the Pseudowire Overview on page 3](#)
- [Using Variables for Layer 2 Traffic Policing at the Pseudowire Overview on page 11](#)
- [Creating a Dynamic Profile for the Complex Configuration on page 12](#)
- [Attaching the Dynamic Profiles to Routing Instances for the Complex Configuration on page 13](#)

Creating a Dynamic Profile for the Complex Configuration

For this configuration, the dynamic profile defines a profile variable set, and then assigns the variable to the output policer.

To configure the dynamic profiles:

1. Create a dynamic profile.

```
[edit dynamic-profiles]
user@host# edit pw-policer
```


2. Create a profile variable set and define the **junos-layer2-output-policer** variable. In this scenario, set the variable to the **10m-policer**.

```
[edit dynamic-profiles pw-policer]
user@host# edit profile-variable-set pw-policer-var-set
user@host# set junos-layer2-output-policer 10m-policer
```

3. Create a dynamic profile interface that has a dynamic underlying interface unit.

```
[edit dynamic-profiles pw-policer]
user@host# edit interfaces $junos-interface-ifd-name unit
$junos-underlying-interface-unit
```

4. Assign the **junos-layer2-output-policer** variable to the two-color output policer.

```
[edit dynamic-profiles pw-policer interfaces "$junos-interface-ifd-name" unit
"$junos-underlying-interface-unit"]
user@host# set layer2-policer output-policer $junos-layer2-output-policer
```

5. Specify that VPLS is the protocol family.

```
[edit dynamic-profiles pw-2color-l2-policer interfaces "$junos-interface-ifd-name"
unit "$junos-underlying-interface-unit"]
user@host# set family vpls
```

Related Documentation

- [Layer 2 Traffic Policing at the Pseudowire Overview on page 3](#)
- [Using Variables for Layer 2 Traffic Policing at the Pseudowire Overview on page 11](#)
- [Configuring a Policer for the Complex Configuration on page 12](#)
- [Attaching the Dynamic Profiles to Routing Instances for the Complex Configuration on page 13](#)

Attaching the Dynamic Profiles to Routing Instances for the Complex Configuration

To bind the dynamic profile to the pseudowire, attach it to a routing instance. When your dynamic profile contains variables, you assign one of the profile variable sets that you configured in your dynamic profile when you associate the profile with the routing instance.

The routing instance can be a VPLS instance type or a virtual switch instance type. You can attach the dynamic profile and the profile variable set to the routing instance at the VPLS protocol level, at the mesh-group level, or at the neighbor level.

Because this feature is not supported on tunnel interfaces, for VPLS routing interfaces you must include the **no-tunnel-services** statement at the **[edit routing-instances routing-instance-name protocols vpls]** hierarchy level.

- To attach the dynamic profile and the profile variable set at the VPLS protocol level:

```
[edit routing-instances]
user@host# edit green protocols vpls associate-profile
[edit routing-instances green protocols vpls associate-profile]
user@host# set profile-variable-set pw-policer
user@host# set profile-variable-set pw-policer-var-set
```

- To attach the dynamic profile and the profile variable set at the mesh-group level:

```
[edit routing-instances]
user@host# edit green protocols vpls mesh-group lata-1 associate-profile
[edit routing-instances green protocols vpls mesh-group lata-1 associate-profile]
user@host# set profile-variable-set pw-policer
user@host# set profile-variable-set pw-policer-var-set
```

- To attach the dynamic profile and the profile variable set at the neighbor level:

```
[edit routing-instances]
user@host# edit green protocols vpls mesh-group lata-1 neighbor 10.10.1.1
associate-profile
[edit routing-instances green protocols vpls mesh-group lata-1 neighbor 10.10.1.1
associate-profile]
user@host# profile-variable-set pw-policer
user@host# profile-variable-set pw-policer-var-set
```

**Related
Documentation**

- [Layer 2 Traffic Policing at the Pseudowire Overview on page 3](#)
- [Using Variables for Layer 2 Traffic Policing at the Pseudowire Overview on page 11](#)
- [Configuring a Policer for the Complex Configuration on page 12](#)
- [Creating a Dynamic Profile for the Complex Configuration on page 12](#)

CHAPTER 4

Configuration Statements for Layer 2 Traffic Policing at the Pseudowire

associate-profile

Syntax	<pre>associate-profile { <i>dynamic-profile-name</i>; profile-variable-set <i>profile-variable-set-name</i>; }</pre>
Hierarchy Level	[edit routing-instances <i>routing-instance-name</i> protocols vpls] [edit routing-instances <i>routing-instance-name</i> protocols vpls mesh-group <i>mesh-group-name</i>] [edit routing-instances <i>routing-instance-name</i> protocols vpls mesh-group <i>mesh-group-name</i> neighbor neighbor-id]
Release Information	Statement introduced in Junos OS Release 11.1.
Description	Associate a dynamic profile or a profile variable set with a VPLS instance.
Options	<i>dynamic-profile-name</i> —Name of the dynamic profile to attach to this routing instance. The remaining option is explained separately.
Required Privilege Level	routing—To view this statement in the configuration. routing-control—To add this statement to the configuration.
Related Documentation	<ul style="list-style-type: none">• Attaching the Dynamic Profiles to Routing Instances on page 10• Attaching the Dynamic Profiles to Routing Instances for the Complex Configuration on page 13

family vpls (Layer 2 Pseudowires)

Syntax	family vpls;
Hierarchy Level	[edit dynamic-profiles <i>profile-name</i> interfaces <i>interface-name</i> unit <i>logical-unit-number</i>]
Release Information	Statement introduced in Junos OS Release 11.1.
Description	Specify that the protocol family for the logical interface is VPLS.
Required Privilege Level	router—To view this statement in the configuration. router-control—To add this statement to the configuration.
Related Documentation	<ul style="list-style-type: none">• Applying the Policers to Dynamic Profile Interfaces on page 8• Creating a Dynamic Profile for the Complex Configuration on page 12

layer2-policer

Syntax	layer2-policer { output-policer <i>policer-name</i> ; output-three-color <i>policer-name</i> ; }
Hierarchy Level	[edit dynamic-profiles <i>profile-name</i> interfaces <i>logical- interface-name-variable</i>]
Release Information	Statement introduced in Junos OS Release 11.1.
Description	Specify the output policers to be used in the dynamic profile.
Options	<p>output-policer <i>policer-name</i>—Two-color output policer to associate with the interface. You define this policer at the [edit firewall policer] hierarchy level.</p> <p>output-three-color <i>policer-name</i>—Tricolor output policer to associate with the interface. You define this policer at the [edit firewall] hierarchy level.</p>
Required Privilege Level	routing—To view this statement in the configuration. routing-control—To add this statement to the configuration.
Related Documentation	<ul style="list-style-type: none">• Applying the Policers to Dynamic Profile Interfaces on page 8• Creating a Dynamic Profile for the Complex Configuration on page 12

profile-variable-set (Dynamic Profiles)

Syntax	<pre>profile-variable-set { variable-set-name { junos-layer2-output-policer <i>policer-name</i>; } }</pre>
Hierarchy Level	[edit dynamic-profiles <i>profile-name</i>]
Release Information	Statement introduced in Junos OS Release 11.1.
Description	Specify the policer used in the variable set.
Options	junos-layer2-output-policer <i>policer-name</i> —Layer 2 policer that you want to substitute in the dynamic profile. You define this policer at the [edit firewall policer] hierarchy level.
Required Privilege Level	routing—To view this statement in the configuration. routing-control—To add this statement to the configuration.
Related Documentation	<ul style="list-style-type: none"> • Applying the Policers to Dynamic Profile Interfaces on page 8 • Creating a Dynamic Profile for the Complex Configuration on page 12

profile-variable-set (Routing Instances)

Syntax	<pre>profile-variable-set <i>variable-set-name</i></pre>
Hierarchy Level	[edit routing-instances routing-instance-name protocols vpls associate-profile]
Release Information	Statement introduced in Junos OS Release 11.1.
Description	Specify the variable set to apply to the dynamic profile for the routing instance.
Options	<i>variable-set-name</i> —Name of the variable set to use when this dynamic profile is applied to the routing instance. You define this variable set at the [edit dynamic-profiles <i>profile-name</i>] hierarchy level.
Required Privilege Level	routing—To view this statement in the configuration. routing-control—To add this statement to the configuration.
Related Documentation	<ul style="list-style-type: none"> • Attaching the Dynamic Profiles to Routing Instances for the Complex Configuration on page 13

PART 3

Verification

- [Verifying Your Layer 2 Traffic Policers on VPLS Connections on page 21](#)

CHAPTER 5

Verifying Your Layer 2 Traffic Policers on VPLS Connections

- [Verifying Your Layer 2 Traffic Policers on VPLS Connections on page 21](#)

Verifying Your Layer 2 Traffic Policers on VPLS Connections

Purpose Display VPLS connections to verify that the dynamic profile is running on the Layer 2 VPN connection.

Action user@host> show vpls connections
Layer-2 VPN connections:

```
...
Instance: vpls-10gige
Local site: 10Gige-PE (2)
  connection-site      Type  St      Time last up      # Up trans
  1                    rmt   Up      Mar 28 21:27:57 2010      1
    Remote PE: 10.10.1.1, Negotiated control-word: No
    Incoming label: 262145, Outgoing label: 262146
    Local interface: lsi.1048576, Status: Up, Encapsulation: VPLS
    Dynamic profile: pw-policer
    Description: Intf - vpls vpls-10gige local site 2 remote site 1
```

Meaning The Dynamic profile field displays the policer that is currently running on the VPLS connection.

