

Configuring VPLS Load Balancing on MX Series Ethernet Services Routers

In JUNOS Release 9.5 and later, on MX Series routers, you can configure the load balancing hash key for Layer 2 traffic to use fields in the Layer 3 and Layer 4 headers inside the frame payload. You can also configure VPLS load balancing based on IP and MPLS information on M120 and M320 routers only. For more information, see *Configuring VPLS Load Balancing Based on IP and MPLS Information*.

You can configure load balancing on MX Series routers based on Layer 3 or Layer 4 information or both.

To configure VPLS load balancing on the MX Series router to include either Layer 3 IP information or Layer 4 headers or both:

1. Include the `payload` statement at the `[edit forwarding-options hash-key family multiservice]` hierarchy level.
2. Include the `ip` statement at the `[edit forwarding-options hash-key family multiservice payload]` hierarchy level.

To configure VPLS load balancing to include the Layer 3 information:

1. Include the `layer-3` statement at the `[edit forwarding-options hash-key family multiservice payload ip]` hierarchy level.
2. Include the `source-address-only` statement at the `[edit forwarding-options hash-key family multiservice payload ip layer-3]` hierarchy level to include information about the IP source address only in the hash key.
3. Include `destination-address-only` statement at the `[edit forwarding-options hash-key family multiservice payload ip layer-3]` hierarchy level to include information about the IP destination address only in the hash key.



NOTE: You can configure either the `source-address-only` or the `destination-address-only` statements at a time, not both. They are mutually exclusive.

To configure VPLS load balancing to include Layer 4 information:

- Include the `layer-4` statement at the `[edit forwarding-options hash-key family multiservice payload ip]` hierarchy level.

The following example shows load balancing configured to use the source Layer 3 IP address option and Layer 4 header fields as well as the source and destination MAC addresses:

```
[edit forwarding-options hash-key]
family multiservice {
  source-mac;
  destination-mac;
  payload {
    ip {
```

```
        layer-3 {
            source-address-only;
        }
        layer-4;
    }
}
```

- Related Topics**
- family multiservice
 - hash-key

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