

Class-Map Commands

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class-map

To create a class map to be used for matching packets to a specified class and to enter QoS class-map configuration mode, use the **class-map** command in global configuration mode. To remove an existing class map from a device, use the **no** form of this command.

class-map { [**type inspect match-all**] | [**match-any**] } *class-map-name*
no class-map { [**type inspect match-all**] | [**match-any**] }

Syntax Description

type inspect	(Optional) Specifies the class-map type as inspect.
match-all	(Optional) Determines how packets are evaluated when multiple match criteria exist. Matches statements under this class map based on the logical AND function. A packet must match all statements to be accepted. If you do not specify the **match-all** or **match-any** keyword, the default keyword used is **match-all**.
match-any	(Optional) Determines how packets are evaluated when multiple match criteria exist. Matches statements under this class map based on the logical OR function. A packet must match any of the match statements to be accepted. If you do not specify the **match-any** or **match-all** keyword, the default keyword is used **match-all**.
class-map-name	Name of the class for the class map. The class name is used for both the class map and to configure a policy for the class in the policy map. **Note** You can enter the value for the *class-map-name* argument within quotation marks. The software does not accept spaces in a class map name entered without quotation marks.

Command Default

A class map is not configured.

Command Modes

Global configuration (config)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.

Usage Guidelines

For usage guidelines, see the Cisco IOS XE `class-map` command.

Examples

```
class-map match-any BestEffort
  match qos-group 3
 !
 class-map match-any Bulk
  match qos-group 4
 !
 class-map match-any Critical
  match qos-group 1
 !
 class-map match-any Critical-Low
  match qos-group 2
 !
 class-map match-any BULK
  match qos-group 2
 !
 class-map match-any CONTROL-SIGNALING
  match qos-group 4
 !
 class-map match-any CRITICAL-DATA
  match qos-group 1
 !
 class-map match-any Default
  match qos-group 5
 !
 class-map match-any INTERACTIVE-VIDEO
  match qos-group 3
 !
 class-map match-any LLQ
  match qos-group 0
 !
 class-map match-any Queue0
  match qos-group 0
 !
 class-map match-any Queue1
  match qos-group 1
 !
 class-map match-any Queue2
  match qos-group 2
 !
 class-map match-any Queue3
  match qos-group 3
 !
 class-map match-any Queue4
  match qos-group 4
 !
 class-map match-any Queue5
  match qos-group 5
 !
 class-map type inspect match-all cmap
  match access-group name cmap
 !
 class-map match-any Queue4
  match qos-group 0
 !
```

The following example configures the match criterion for a class map on the basis of a specified protocol for zone based policy firewall:

```
class-map match-any aa1-cm0_
match protocol test
match protocol mpeg2-ts
!
```

match qos-group

To identify a specific quality of service (QoS) group value as a match criterion, use the **match qos-group** command in class-map configuration or policy inline configuration mode. To remove a specific QoS group value from a class map, use the **no** form of this command.

match qos-group *qos-group-value*
no match qos-group *qos-group-value*

Syntax Description

qos-group-value	The exact value from 0 to 99 used to identify a QoS group value.

Command Default

No match criterion is specified.

Command Modes

Class-map configuration (config-cmap)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.

Examples

```
class-map match-any BestEffort
  match qos-group 3
 !
 class-map match-any Bulk
  match qos-group 4
 !
 class-map match-any Critical
  match qos-group 1
 !
 class-map match-any Critical-Low
  match qos-group 2
 !
 class-map match-any BULK
  match qos-group 2
 !
 class-map match-any CONTROL-SIGNALING
  match qos-group 4
 !
 class-map match-any CRITICAL-DATA
  match qos-group 1
 !
 class-map match-any Default
  match qos-group 5
```

```
!
class-map match-any INTERACTIVE-VIDEO
 match qos-group 3
!
class-map match-any LLQ
 match qos-group 0
!
class-map match-any Queue0
 match qos-group 0
!
class-map match-any Queue1
 match qos-group 1
!
class-map match-any Queue2
 match qos-group 2
!
class-map match-any Queue3
 match qos-group 3
!
class-map match-any Queue4
 match qos-group 4
!
class-map match-any Queue5
 match qos-group 5
!
```

pass

To allow packets to be sent to the router without being inspected, use the **pass** command in policy-map-class configuration mode.

pass log

Command Default

No default behavior or values.

Command Modes

Policy-map-class configuration mode (config-pmap-c)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.

Usage Guidelines

The zone-based firewall feature can be enabled on a Cisco IOS XE Catalyst SD-WAN devices for inspecting traffic exchange between multiple service VPNs. **policy-map type inspect** command can be used to create a policy-map under which class or class type inspect command can be called for taking further actions on the traffic of interest.

Examples

The following example shows how to create a policy-map type inspect fw_policy1. Inside this policy-map, a class of class type inspect cmap_1 has been called. Inside the class type inspect, pass log command can be called to not drop or inspect packets for the desired class.

```
Device(config)# policy-map type inspect fw_policy1
Device(config-pmap)# class type inspect cmap_1
Device(config-pmap-c)# pass log
```

Related Commands

Command	Description
policy-map type inspect *policy-name*	Creates a Layer 3 or Layer 4 inspect type policy map.
class type inspect *class-name*	Specifies the traffic class on which an action is to be performed.
log	Logs the firewall activity for an inspect parameter map.