

Classifier Control Lists Overview

Classifier control lists (CLACLs) specify the criteria by which the router defines a packet flow. Table 1 on page 1 lists the criteria that you can use to create CLACLs for different types of traffic flows.

Table 1: CLACL Criteria

Type of CLACL	Criteria
ATM	<ul style="list-style-type: none">■ CLP■ Color■ Traffic class■ User packet class
Frame Relay	<ul style="list-style-type: none">■ Color■ Mark discard eligibility (DE) bit■ Traffic class■ User packet class
GRE	<ul style="list-style-type: none">■ Color■ Traffic class■ Type-of-service (ToS) byte■ User packet class
IP	<ul style="list-style-type: none">■ Color■ Destination IP address■ Destination port■ Destination route class■ Internet Control Message Protocol (ICMP)■ Internet Gateway Management Protocol (IGMP)■ IP flags■ IP fragmentation offset■ Locally destined traffic■ Protocol■ Source IP address■ Source port■ Source route class■ Transmission Control Protocol (TCP)■ Traffic class■ Type-of-service (ToS) byte■ User Datagram Protocol (UDP)■ User packet class

Table 1: CLACL Criteria *(continued)*

Type of CLACL	Criteria
IPv6	<ul style="list-style-type: none">■ Color■ Destination IPv6 address■ Destination port■ Destination route class■ Internet Control Message Protocol version 6 (ICMPv6)■ IPv6 traffic class■ Locally destined traffic■ Multicast Listener Discovery (MLD)■ Next header■ Source IPv6 address■ Source port■ Source route class■ Traffic class■ Transmission Control Protocol (TCP)■ User Datagram Protocol (UDP)■ User packet class
L2TP	<ul style="list-style-type: none">■ Color■ Traffic class■ User packet class
MPLS	<ul style="list-style-type: none">■ Color■ Mark experimental (EXP) bit■ Traffic class■ User packet class
VLAN	<ul style="list-style-type: none">■ Color■ Traffic class■ User packet class■ User priority

You configure CLACLs with a name and then values to match in the IP datagram header. A CLACL does not include an action: actions take place when a match is included in a policy list.



NOTE: Do not use the asterisk (*) for the name of a classifier list. The asterisk is used as a wildcard for the **classifier-group** command.

If you do not specify one of the **frame-relay**, **gre-tunnel**, **ip**, **ipv6**, **l2tp**, **mpls**, or **vlan** keywords, the router creates an IP classifier list. This version of the command has been deprecated and may be removed in a future release.

- Related Topics**
- For information about the hardware and software CLACLs that are supported for each interface type, see Policy Resources Overview.
 - For information about monitoring Classifier Lists, see Monitoring Policy Management Overview.

