

Understanding CoS Code-Point Aliases

A code-point alias assigns a name to a pattern of code-point bits. You can use this name instead of the bit pattern when you configure other CoS components such as classifiers, drop-profile maps, and rewrite rules.

Behavior aggregate classifiers use class-of-service (CoS) values such as Differentiated Services code points (DSCPs), IP precedence, and IEEE 802.1 bits to associate incoming packets with a particular CoS servicing level. On a switch, you can assign a meaningful name or alias to the CoS values and use this alias instead of bits when configuring CoS components. These aliases are not part of the specifications but are well known through usage. For example, the alias for DSCP 101110 is widely accepted as ef (expedited forwarding).

When you configure classes and define classifiers, you can refer to the markers by alias names. You can configure user-defined classifiers in terms of alias names. If the value of an alias changes, it alters the behavior of any classifier that references it.

You can configure code-point aliases for the following type of CoS markers :

- dscp—Handles incoming IPv4 packets.
- ieee-802.1—Handles Layer 2 CoS.
- inet-precedence—Handles incoming IPv4 packets. IP precedence mapping requires only the upper three bits of the DSCP field.

This topic covers:

- Default Code-Point Aliases on page 1

Default Code-Point Aliases

Table 1 on page 1 shows the default mappings between the bit values and standard aliases.

Table 1: Default Code-Point Aliases

CoS Value Types	Mapping
DSCP CoS Values	
ef	101110
af11	001010
af12	001100
af13	001110
af21	010010
af22	010100

Table 1: Default Code-Point Aliases (continued)

CoS Value Types	Mapping
af23	010110
af31	011010
af32	011100
af33	011110
af41	100010
af42	100100
af43	100110
be	000000
cs1	001000
cs2	010000
cs3	011000
cs4	100000
cs5	101000
nc1/cs6	110000
nc2/cs7	111000
IEEE 802.1p CoS Values	
be	000
be1	001
ef	010
ef1	011
af11	100
af12	101
nc1/cs6	110
nc2/cs7	111
Legacy IP Precedence CoS Values	
be	000
be1	001

Table 1: Default Code-Point Aliases (continued)

CoS Value Types	Mapping
ef	010
ef1	011
af11	100
af12	101
nc1/cs6	110
nc2/cs7	111

- Related Topics**
- Understanding JUNOS CoS Components for EX-series Switches
 - Example: Configuring CoS on EX-series Switches
 - Defining CoS Code-Point Aliases (CLI Procedure)
 - Defining CoS Code-Point Aliases (J-Web Procedure)

