



DSCP and Precedence Values

This appendix provides the DSCP and precedence values used in QoS class maps and policy maps.

Commonly Used DSCP Values

Unless noted as a restriction, you can mark both incoming and outgoing packets.

[Table 6-1](#) lists the commonly used DSCP values that are described in [RFC 2475](#).

Table 6-1 Commonly Used DSCP Values

DSCP Value	Decimal Value	Meaning	Drop Probability	Equivalent IP Precedence Value
101 110	46	High Priority Expedited Forwarding (EF)	N/A	101 - Critical
000 000	0	Best Effort	N/A	000 - Routine
001 010	10	AF11	Low	001 - Priority
001 100	12	AF12	Medium	001 - Priority
001 110	14	AF13	High	001 - Priority
010 010	18	AF21	Low	010 - Immediate
010 100	20	AF22	Medium	010 - Immediate
010 110	22	AF23	High	010 - Immediate
011 010	26	AF31	Low	011 - Flash
011 100	28	AF32	Medium	011 - Flash
011 110	30	AF33	High	011 - Flash
100 010	34	AF41	Low	100 - Flash Override
100 100	36	AF42	Medium	100 - Flash Override
100 110	38	AF43	High	100 - Flash Override
001 000	8	CS1		1
010 000	16	CS2		2
011 000	24	CS3		3

Table 6-1 Commonly Used DSCP Values (continued)

DSCP Value	Decimal Value	Meaning	Drop Probability	Equivalent IP Precedence Value
100 000	32	CS4		4
101 000	40	CS5		5
110 000	48	CS6		6
111 000	56	CS7		7
000 000	0	Default		
101 110	46	EF		

IP Precedence Values

Table 6-2 lists the RFC 791 precedence values from least to most important.

Table 6-2 Precedence Values

Value	Description
000 (0)	Routine or Best Effort
001 (1)	Priority
010 (2)	Immediate
011 (3)	Flash (mainly used for voice signaling or for video)
100 (4)	Flash Override
101 (5)	Critical (mainly used for voice RTP)
110 (6)	Internet
111 (7)	Network