



CHAPTER 6

DSCP and Precedence Values

This section 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 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	001 - Immediate
010 100	20	AF22	Medium	001 - Immediate
010 110	22	AF23	High	001 - 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

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Table 6-1 Commonly Used DSCP Values (continued)

DSCP Value	Decimal Value	Meaning	Drop Probability	Equivalent IP Precedence Value
001 000	8	CS1		1
010 000	16	CS2		2
011 000	24	CS3		3
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