



- ToS Byte (IPv4) / Traffic Class (IPv6) : DSCP

		TOS Byte (IPv4) Traffic Class (IPv6)								PHB	DCSP Value (decimal)	TOS Value (decimal)	Drop Probability	
		DSCP							Flow control					
		IP Precedence	b7	b6	b5	b4	b3	b2	b1	b0				
Best Effort		0	0	0	0	0	0	0	0	0	Default	0	0	
		0	0	1	0	0	0	0	0	0	CS1	8	32	
Class Selector (Backward Compatibility with IP Precedence)		0	1	0	0	0	0	0	0	0	CS2	16	64	
		0	1	1	0	0	0	0	0	0	CS3	24	96	
		1	0	0	0	0	0	0	0	0	CS4	32	128	
		1	0	1	0	0	0	0	0	0	CS5	40	160	
		1	1	0	0	0	0	0	0	0	CS6	48	192	
		1	1	1	0	0	0	0	0	0	CS7	56	224	
	Assured Forwarding		0	0	1	0	1	0	0	0	0	AF11	10	40
		0	0	1	1	0	0	0	0	0	AF12	12	48	Medium
		0	0	1	1	1	0	0	0	0	AF13	14	56	High
		0	1	0	0	1	0	0	0	0	AF21	18	72	Low
		0	1	0	1	0	0	0	0	0	AF22	20	80	Medium
		0	1	0	1	1	0	0	0	0	AF23	22	88	High
		0	1	1	0	1	0	0	0	0	AF31	26	104	Low
		0	1	1	1	0	0	0	0	0	AF32	28	112	Medium
		0	1	1	1	1	0	0	0	0	AF33	30	120	High
		1	0	0	0	1	0	0	0	0	AF41	34	136	Low
		1	0	0	1	0	0	0	0	0	AF42	36	144	Medium
	1	0	0	1	1	0	0	0	0	AF43	38	152	High	
Expedited Forwarding		1	0	1	1	1	0	0	0	0	EF	46	184	

ECN: Explicit Congestion Notification

x	x	x	x	x	x	0	0	Non ECN-Capable
x	x	x	x	x	x	0	1	ECN-Capable Transport (ECT 1)
x	x	x	x	x	x	1	0	ECN-Capable Transport (ECT 0)
x	x	x	x	x	x	1	1	Congestion Experienced (CE)

Application	L3 Classification	
	PHB	DSCP
IP Routing	CS6	48
Voice	EF	46
Interactive-Video	AF41	34
Streaming-Video	CS4	32
Mission-Critical Data	AF31	26
Call-Signaling	CS3	24
Transactional Data	AF21	28
Network-Management	CS2	16
Bulk Data	AF11	10
Scavenger	CS1	8
Best-Effort	0	0

REFERENCES

Intserv

- RFC 2212: Specification of Guaranteed Quality of Service, see [www.ietf.org/rfc/rfc2212.txt](http://www.ietf.org/rfc/rfc2212.txt)
- RFC 2211: Specification of the Controlled-Load Network Element Service, see [www.ietf.org/rfc/rfc2211.txt](http://www.ietf.org/rfc/rfc2211.txt)

ToS Byte / Traffic Class

- RFC 791: Internet Protocol Darpa Internet Program Protocol Specification, see [www.ietf.org/rfc/rfc0791.txt](http://www.ietf.org/rfc/rfc0791.txt)
- RFC 1349: Type of Service in the Internet Protocol Suite, see [www.ietf.org/rfc/rfc1349.txt](http://www.ietf.org/rfc/rfc1349.txt)
- RFC 2474: Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers, see [www.ietf.org/rfc/rfc2474.txt](http://www.ietf.org/rfc/rfc2474.txt)

DiffServ

- RFC 3246 (previously RFC2598): An Expedited Forwarding PHB (Per-Hop Behavior), see [www.ietf.org/rfc/rfc3246.txt](http://www.ietf.org/rfc/rfc3246.txt)
- RFC 2597: Assured Forwarding PHB Group, see [www.ietf.org/rfc/rfc2597.txt](http://www.ietf.org/rfc/rfc2597.txt)
- RFC 3168: The Addition of Explicit Congestion Notification (ECN) to IP, see [www.ietf.org/rfc/rfc3168.txt](http://www.ietf.org/rfc/rfc3168.txt)

# Quality of service reference card<sup>©</sup> v.2.0

