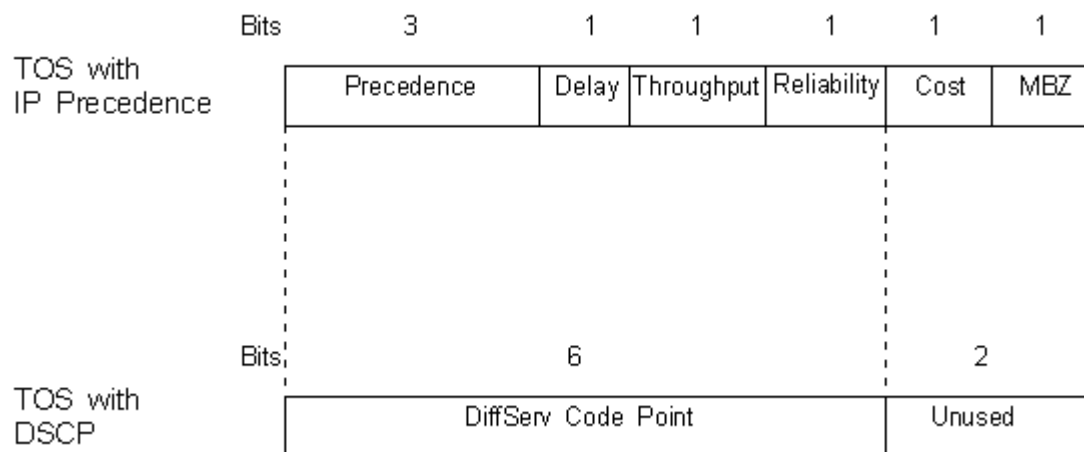


FAQ QoS - TOS - Diffserv N720/ N510 / N300 / C610 and T300/500

DiffServ introduces the concept of the **DiffServ Code Point (DSCP)** that uses the first 6 bits of the TOS field thereby giving $2^6 = 64$ different values. [RFC 2474](#) describes the Differentiated Services (DS) field and the DiffServ Code Point (DSCP).



Default values Gigaset DECT IP devices (N720 / N510 / N300 / C610 IP) :

SIP : 136 decimal (8bit - TOS) --> 34 decimal (6bit - DSCP) --> AF41 (DSCP)

RTP: 184 decimal (8bit - TOS) --> 46 decimal (6bit - DSCP) --> EF (DSCP)

Default values Gigaset T300 / 500:

/etc/asterisk/sip.config

[...

tos_sip:cs3

tos_audio: ef

tos_video: af 41

....]

The following table illustrates the DSCP values:

Per Hop Behaviour (PHB)			DiffServ Code Point (DSCP)		IP Precedence
Default					0
		000000			
Assured Forwarding		Low Drop Probability	Medium Drop Probability	High Drop Probability	
	Class 1	AF11	AF12	AF13	1
		001010	001100	001110	
	Class 2	AF21	AF22	AF23	2
		010010	010100	010110	
	Class 3	AF31	AF32	AF33	3
		011010	011100	011110	
	Class 4	AF41	AF42	AF43	4
		100010	100100	100110	
Expedited Forwarding		EF			5
		101110			

The values in decimal are given in the following table:

DSCP	Binary	Decimal
Default	000000	0
CS1	001000	8
AF11	001010	10
AF12	001100	12
AF13	001110	14
CS2	010000	16
AF21	010010	18
AF22	010100	20
AF23	010110	22
CS3	011000	24
AF31	011010	26
AF32	011100	28
AF33	011110	30
CS4	100000	32
AF41	100010	34
AF42	100100	36
AF43	100110	38
CS5	101000	40
EF	101110	46
CS6	110000	48
CS7	111000	56