

W6CX D-Star Linking

Some material borrowed from Gateway_ENG.pdf manual for ircDDBGateway by G4KLX

REF Linking (performed by genuine DPlus on W6CX Gateway)

DPlus looks for standard commands in URCall. URCall=REF001CL asks gateway to link to reflector REF001 port C. URCall=*****U (* is space) asks to unlink. URCall=*****I is Info command about link status, no voice. URCall=*****LI is Monlink Info command that responds by voice.

DCS and XRF Linking (performed by ircDDBGateway on W6CX Gateway)

URCall commands work the same as for REF linking. The controlling of linking and unlinking can also be controlled by DTMF commands; this is enabled by default but can be disabled in the configuration. These commands do not work when transmitting to a locally connected repeater as detailed above, however in all other circumstances the DTMF commands operate. These commands are:

DTMF Command	Equivalent UR Command	Comment
"B1A" or "B01A" or "B001A"	XRF001AL	Link to DExtra reflector XRF001 A
"D1B" or "D102" or "D0102" or "D00102"	DCS001BL	Link to DCS reflector DCS001 B
"#"	*****U	Unlink from DCS or XRF reflector
"0" or "00"	*****I	Trigger voice Info status

CCS – Callsign Connection System (provided by ircDDBGateway on W6CX Gateway)

Note: CCS originally used a 4-digit number. It is now using a 7-digit number and is often called CCS7.

The idea behind CCS is that each user of CCS has a unique number which you can request at <http://register.ham-digital.net/> . CCS7 and DMR share the same 7-digit numbers. You can look up a friend's CCS7 number at <http://dmr-marc.net/cgi-bin/trbo-database/> (check Query User table box).

Using CCS is very simple, using the CCS number of the remote user, you simply enter that number into your DTMF keypad on your D-Star radio and the CCS system will map that number into a callsign. A link will be made to the repeater where the remote callsign was last heard, and the link will follow your QSO partner if they change repeaters. The gateway will respond with the standard "Linked to" voice message and slow data text as if linked to a reflector. If the CCS number is unknown then the gateway will report "Not linked" by voice and the slow data text will give more details of the reason.

An outgoing CCS link from a repeater will cause all existing reflector links to be ended; however an incoming CCS link to a repeater will not affect any link status but will cause a voice message to be emitted. The CCS DTMF and UR callsign commands are:

Purpose	DTMF Command	UR Call Command	Comment
Link to DG1HT	"2280001"	C2280001	2280001 is DG1HT
Link to K6JM	"3106656"	C3106656	3106656 is K6JM
Disconnect CCS	"A"	CA	Works on incoming and outgoing links