

Appendix A: CC Cluster (server) commands

All of these commands should work on DX clusters running recent/current versions of VE7CC's cluster server software. Most also work on other types of cluster (e.g. DXSpider) ... but the command sets and syntax vary, and individual cluster sysops may restrict, modify or extend them.

Hinson tip: CC User generally composes the appropriate commands according to the type of server. We can connect and configure any available DX Cluster through CC User's point-and-click interface, no worries, no need to learn the command syntax. However, individual clusters may not fully support every command, so some may not work as expected.

CC Cluster command	Purpose and syntax
AN nounce	Send an announcement to users currently connected to <i>this</i> DX Cluster node e.g. AN 6m is wide open from TX to Asia!
AN nounce/ F ull	Broadcast an announcement to <i>all</i> DX cluster nodes e.g. AN/F 6m sure is lively today!
B ye or BYE or Q UIT	Logout and disconnect from the DX Cluster node. Note: if you simply drop the connection, the server logs you out anyway, muttering quietly to itself about rude users ...
DE lete or Kill	Delete the specified mail messages. Specify which message number to delete (e.g. DEL 11 deletes message #11), or a hyphenated range of message numbers (e.g. DEL 4-33 deletes messages #4 through #33 inclusive)
DIR	Lists cluster mail messages stored on the node
DIR/BULLETIN	Lists cluster mail messages sent to "ALL", "BULLETIN" and other addresses that are not callsigns
DIR/NEW	Lists cluster mail messages that have arrived at the node since you last issued a DIR command
DIR/OWN	Lists cluster mail messages addressed to you (including messages sent to ALL), plus mail messages you have sent
DIR/SUBJECT	Shows cluster mail messages with the specified subject e.g. DIR/SUBJECT ARRL lists mails containing ARRL in the subject field
DX	Send a DX spot <i>i.e.</i> DX <Callsign> <Frequency (in kHz)> or DX <Frequency> <Callsign> e.g. DX K1ABC 21030 or DX 21030 K1ABC – either style works
DXT est	Send a DX spot that is returned only to you. It is <i>not</i> circulated to other clusters and users e.g. DXT P5DX 14006-06 .

CC Cluster command	Purpose and syntax
	Hinson tip: use the DXT (or DXTEST) command to check out your filters, alarms, bandmaps etc. by sending fake spots, <i>without</i> annoying other cluster users around the world. Please. Sending actual spots for rare countries may trigger users' DX alarms unnecessarily, causing grief and consternation, a great gnashing of teeth.
List	Lists cluster mail messages on the node
List/NEW	Shows any cluster mail messages received since your last DIR or L command
List/OWN	Shows cluster mail messages addressed to you personally or to ALL, plus mails you have sent
READ	Read cluster mail. (READ <Message #>) See Mail Send/Receive below
REply [#]	RE without a number replies to the mail message that you read last. RE # (e.g. RE 3) replies to that numbered message.
REply/DELeTe [#]	Replies to a cluster mail message (either the latest or the numbered one) and then deletes that message.
REply/DELeTe/RR [#]	Replies to a cluster mail message (either the latest or the numbered one), deletes the message, and requests a read receipt.
REply/RR [#]	Replies to a cluster mail message (either the latest or the numbered one) and requests a read receipt message be returned when the recipient opens your reply.
SEND	Sends cluster mail to the specified callsign or group e.g. SEND VE7CC to mail Lee. SEND <LOCAL> sends a message to local users, and SEND <ALL> broadcasts the mail to all nodes and users (take care!). Use SEND <FORSALE> or SEND <DXNEWS> to send mail to all nodes and users with the specified subjects.
SET/ANN	Enable (show) cluster announcements
SET/BEACON	Enable (show) beacon spots, meaning spots for callsigns ending in "/B" or "BCN" (should that be /BCN ???)
SET/BEEP	DX spots and announcement are accompanied by a beep
SET/BOB	Enable (show) 'bottom of band' fake DX spots giving frequencies at the very LF edge of the band, typically used for general comments and queries about or for the spotted station e.g. DX 14000 P5DX When 160m RTTY?
SET/DOS	Enable filtering by DX Origination State
SET/DX	Enable (show) DX spots
SET/DXCQ	Add spotted DX stations' CQ zones (if known) to the comments field
SET/DXITU	Add spotted DX stations' ITU zones (if known) to the comments field
SET/DXS	Add spotted DX stations' US states, Canadian provinces or DX countries (if known) to the comments field
SET/FILTER	Configure band & mode filtering

CC Cluster command	Purpose and syntax
SET/GRID	Add spotted DX stations' grids (if known) to the comments field. Note: CQ or ITU zones, US states and Canadian provinces cannot also be shown.
SET/HOME	Define your home node e.g. SET/HOME K8SMC if you normally use the K8SMC DX cluster. Any cluster mail addressed to you is sent to your mailbox at your home node.
SET/LOCATION	Specify the latitude and longitude of your station in degrees and minutes with N/S and E/W e.g. SET/LOCATION 42 17 N 84 21 W
SET/LOGIN	Enable (show) connect and disconnect messages as users login to and logout from the cluster node to keep an eye on who's using it
SET/NAME	Specify your name e.g. SET/NAME Lee
SET/NOANN	Disable (stop showing) announcements to you. Don't worry, they still go to other connected users who haven't disabled them
SET/NOBEACON	Block beacon spots, meaning spots for callsigns ending in "/B" or "BCN" ????
SET/NOBEEP	Disable (stop sounding) beeps when DX spots and announcement arrive
SET/NOBOB	Disable (stop showing) bottom-of-band DX spots
SET/NOCQ	Disable (stop showing) CQ zones in DX spot comments
SET/NODX	Disable (stop showing) DX spots
SET/NODXCQ	Disable (stop showing) CQ zones in DX spot comments
SET/NODXITU	Disable (stop showing) ITU zones in DX spot comments
SET/NODXS	Disable (stop showing) US states, Canadian provinces or DX countries in DX spot comments
SET/NOGRID	Disable (stop showing) grids in DX spot comments
SET/NOITU	Disable (stop showing) ITU zones in DX spot comments
SET/NOLOGIN	Disable (stop showing) user logins and logouts
SET/NOOWN	Disable (stop showing) Skimmer spots for your own callsign
SET/NOSELF	Disable (stop showing) self-spots by other users
SET/NOSKIMMER	Disable (stop showing) automated Skimmer spots
SET/NOTALK	Disable (stop showing, ignore) talk messages addressed to you
SET/NOUSSTATE	Disable (stop showing) US states and Canadian provinces in DX spot comments
SET/NOWCY	Disable (stop showing) WCY messages
SET/NOWWV	Disable (stop showing) WWV messages
SET/NOWX	Disable (stop showing) weather announcements
SET/OWN	Disable (stop showing) Skimmer spots for your callsign
SET/QRA	Define your grid square e.g. SET/QRA EN72

CC Cluster command	Purpose and syntax
SET/QTH	Define your city and state or country, separated with a comma e.g. SET/QTH Napier, New Zealand
SET/RES 1	Round spot frequencies to 1 decimal place (100 Hz resolution) e.g. 14025.4 kHz
SET/RES 2	Round spot frequencies to 2 decimal places (10 Hz resolution) e.g. 14025.43 kHz. Note, most submitted DX spots have zero or one decimal place, rarely two.
SET/SELF	Enable (show) self spots by other users ????
SET/SKIMMER	Enable (show) automated DX spots from Skimmers
SET/TALK	Enable (show) talk messages addressed to you
SET/USSTATE	Enable (show) applicable US states or Canadian provinces in the comments when US or Canadian stations are spotted
SET/USSTATE	Enable (show) US stations' states in DX spot comments. This command simultaneously <i>disables</i> the display of CQ and ITU zones and DX grids.
SET/WCY	Enable (show) WCY spots
SET/WIDTH	Set the maximum message length, in characters, for DX spots. Normally this is 80 characters but your logging program may display spots up to 130 characters long with extended comments.
SET/WWV	Enable (show) WWV spots
SET/WX	Enable (show) weather announcements
SHoW/CL	Show cluster node information e.g. "Cluster: 330 nodes 33 Locals 4513 Total users Uptime 29 days 16:27".
SHoW/CONF	Lists local nodes (<i>i.e.</i> nodes that the Sysop declares to be 'local') and the callsigns of their logged-in users
SHoW/DX	Show the 30 most recent spots (possibly less than 30 if the server has only just restarted)
SHoW/DX <callsign>	Show up to 30 of the most recent DX spots for the specified callsign
SHoW/DX <frequency-range>	Show spots within the hyphenated range of frequencies in kHz e.g. SH/DX 14000-14063 to see spots for stations in the bottom part of the 20m band (most will be using CW but the modes are not checked, just the frequencies)
SHoW/DX <prefix*>	Show DX spots for the DXCC entity corresponding to the stated prefix. Terminal asterisk required e.g. SH/DX W* shows spots for USA stations. <i>Note: this works for standard and non-standard prefixes, based on the official ITU prefix allocations.</i>
SHoW/DX n	Show DX spots for the band specified in metres e.g. SH/DX 20 shows 20m spots

CC Cluster command	Purpose and syntax
SHoW/DX 'text'	Show DX spots with comments containing the specified text (regardless of case) e.g. SH/DX 'rtty' to see spots that have rtty, RTTY, Rtty etc. within the spot comments
SHoW/DX/n	Show the specified number of spots e.g. SH/DX/100 shows 100 spots
SHoW/DXBY <callsign>	Show DX spots submitted by the person with the specified callsign e.g. SH/DXBY ZL2IFB shows spots sent to the cluster by Gary
SHoW/FDX	Show real-time formatted DX spots ????
SHoW/FILTER	Show your filter settings, currently in effect on the server
SHoW/HEAD <callsign>	Show the distances and bearings to spotted stations from your station QTH
SHoW/MYANN	Show the last 5 announcements that are not blocked by your settings ???
SHoW/MYDX	Show the last 30 spots that are not blocked by your filters
SHoW/MYDX <band>	Show spots on the specified band, provided they are not blocked by your current filter settings on the server e.g. SH/MYDX 20 shows 20 metre spots that are not blocked by your filters
SHoW/MYDX <callsign>	Show up to the 30 latest spots for the specified DX callsign , provided they are not blocked by your filters
SHoW/MYDX/<#>	Shows the specified number of recent spots that are not blocked by your filters e.g. SH/MYDX/100 shows 100 spots that pass through your current filter settings on the server
SHoW/MYFDX	Shows 30 spots recent that are not blocked by your current filter settings on the server ????
SHoW/MYWX	Shows the last 5 weather announcements not blocked by your filter settings
SHoW/RES	Shows the DX spot frequency resolution being the number of places of decimals for frequencies in kHz i.e. 1 (100 Hz resolution) or 2 (10 Hz res)
SHoW/SETtings	Shows information held by the server for your callsign , plus your configuration settings – a handy way to check if you are unsure
SHoW/STAtion <callsign>	Shows information held by the server for the specified station e.g. SH/STA VE7CC shows Lee's station information
SHoW/SUN	Shows your local sunrise and sunset times currently, in UTC, based on your configured QTH – see SET/LOCATION
SHoW/SUN <prefix>	Shows the sunrise and sunset times in UTC for stations in the DXCC entity corresponding to the specified prefix e.g. SH/SUN ZL shows when the sun rises and sets in New Zealand at the moment. <i>Note: there are substantial differences across large ('wide') countries: the sun rises and sets earlier than shown for stations to the East and later for those to the West.</i>
SHoW/TIME	Shows the current UTC time and date (albeit labelled 'GMT')sh
Show/TIME <callsign>	Shows the local time for the callsign e.g. SH/TIME ZL2IFB shows you the time of day currently on Gary's wristwatch, as does SH/TIME ZL

CC Cluster command	Purpose and syntax
SHow/USDB <callsign>	Shows states for US stations and provinces for VEs. This information is stored in the cluster's US database which may be out of date (see SH/VER).
SHow/USERS	Shows (lists) the callsigns of those currently logged-in to the cluster node
SHow/VERsion	Shows info about the cluster node's Winsock, cluster server and Windows software and the last update dates for its databases (US states and VE provinces, gridsquares, countries, bad words ¹⁴ and special calls). Clusters running outdated software and databases are presumably not being actively administered and maintained.
SHow/WCY[/n]	Shows solar and geomagnetic reports from DK0WCY
SHow/WIDTH	Shows the maximum number of characters allowed for DX spots (80 by default)
SHow/WWV[/n]	Shows the 5 most recent WWV reports by default, or the number appended e.g. SH/WWV/99 shows 99
SH/WX	Shows recent weather announcements (if any)
Talk <callsign> <message>	Send a talkie to the user with the specified callsign provided they are presently logged-in to a node and are not blocking talk messages
UNSET/	This is equivalent to SET/NO on CC Clusters, providing compatibility for DX-Spider users who prefer the DX-Spider command format
WHO	Lists the server's current connections showing: callsign, USER or NODE (with its DX cluster type), UTC data and time of last login, user's name, IP address and 1 or zero (purpose unknown)

¹⁴ 'Bad words' may be used to trap abusive DX spots?

Appendix B: CC Cluster filtering commands

The table shows commands and examples specifically for a CC Cluster. DX cluster nodes running other types of DX cluster software (e.g. DX Spider) may have different commands.

Filter setting	Purpose
SH/FILTER	Shows all the filter settings for the currently logged-in user.
SH/FILTER <aaa>	Show the settings for a specific filter, where <aaa> is the filter name <i>i.e.</i> • SH/FILTER DOC = DX Originator's (spotter's) Country • SH/FILTER DOS = DX Originator's (spotter's) State • SH/FILTER AOC = Announcement Originator's Country • SH/FILTER AOS = Announcement Originator's State • SH/FILTER WOC = Weather message Originator's Country • SH/FILTER WOS = Weather message Originator's State • SH/FILTER DXCTY = Spotted DX station's CounTrY • SH/FILTER DXSTATE = Spotted DX station's STATE
SET/NOFILTER	Resets all the filters to default. If you are not receiving the expected DX spots, you may have entered invalid filter commands. Either correct the settings individually or reset the lot and start again.
SET/FILTER <aaa>/OFF	Disable a specific filter, where <aaa> is the specific filter name - see SH/FILTER <aaa> above.
SET/FILTER <aaa>/PASS <bbb> -or- SET/FILTER <aaa>/REJECT <bbb>	Set a filter to pass or reject the specified spots, where: • <aaa> is the optional filter name (see SH/FILTER <aaa> above); and • <bbb> is the optional DXCC prefix or state (e.g. TX for Texas). Examples: • SET/FILTER K,VE/PASS is a typical filter setting for someone in North America to see spots originated by spotters in the US or Canada, only, not those from spotters elsewhere in the world • SET/FILTER DOC /PASS EA,OH,G would set a filter that only passes DX spots <i>from</i> spotters based in Spain, Finland and England. • SET/FILTER DXCTY/PASS F,OH would set a filter that only passes DX spots <i>for</i> DX stations in France and Finland.
DX Band Mode filter	The DXBM filter allows us to pass or reject DX spots for DX stations in various band/mode segments (slots) – see the next appendix ...

Appendix C: Filtering band/mode segments (slots) on a CC Cluster

We can tailor the DX spots from a CC Cluster to pass spots for the band segments ('slots') that interest us. On a CC Cluster, we can select any whole band or just the individual band/mode 'slot/s', telling the cluster to either pass or reject the selected item/s.

The easy point-n-click way to do this is through the [Bands tab](#) in CC User. Alternatively, we can compose and send the commands manually.

- The default setting for new users is to pass everything *i.e.* all DX spots regardless of mode.
- To reset the band/mode filter to the default, enter the command **SET/FILTER DXBM/OFF**.
- To display our current settings, enter the command **SH/FILTER DXBM**.

We can add or change items one at a time, or all at once (separating the parameters with commas). For example:

- To pass spots for 6 meters, enter **SET/FILTER DXBM/PASS 6**.
- To reject spots in the 80 meter *and* 40 meter CW slots, enter **SET/FILTER DXBM/REJECT 80-CW,40-CW**

Although each slot names a mode, it is in fact selecting the **frequency range** shown in the table that corresponds to the slot name, regardless of the mode or modes being used there ▼

Slot	LF	HF	Slot	LF	HF	Slot	LF	HF
160-CW	1800	1850	-			160-SSB	1850	2000
80-CW	3500	3580	80-RTTY	3580	3700	80-SSB	3700	4000
-						60-SSB	5260	5405
40-CW	7000	7040	40-RTTY	7040	7100	40-SSB	7100	7300
30-CW	10100	10130	30-RTTY	10130	10150	-		
20-CW	14000	14070	20-RTTY	14070	14150	20-SSB	14150	14350
17-CW	18068	18100	17-RTTY	18100	18110	17-SSB	18110	18168
15-CW	21000	21070	15-RTTY	21070	21200	15-SSB	21200	21450
12-CW	24890	24920	12-RTTY	24920	24930	12-SSB	24930	24990
10-CW	28000	28070	10-RTTY	28070	28300	10-SSB	28300	29700
6-CW	50000	50080	6-SSB	50080	50500	6-FM	50500	54000
-						4-MTR	70000	70650
2-CW	144000	144100	2-SSB	144100	144500	2-FM	144500	148000
1-CW	220000	221000	1-SSB	222000	224000	1-FM	221000	222000
-						MW-MW	500000	47000000

Spots for DX stations using *any* mode of transmission within a particular frequency range (e.g. various digimodes, some SSB and maybe some CW in the 40-RTTY slot) will be passed or rejected according to the filter settings. This is because many DX spots do not state the actual mode being used by the DX, but they *all* state the frequency: it is a mandatory field for any valid DX spot.