

# N0CXX D\*Star Repeater Operation Guide

The Collins ARC 2 Meter and 440 MHz D\*Star repeaters *are available for general use*, and are **not** limited to CARC members. Please treat these systems as a shared resource, and yield their use to folks with urgent traffic, allow for public service events, drills, and activities. Please use courtesy and announce your intentions to initiate or disconnect a link. D\*Star repeaters operate from a shared site in Cedar Rapids on the Rockwell Collins campus.

## Repeater Specifics

### 70 cm

Output Freq: **442.050 MHz**  
Input Freq: 447.050 MHz  
Freq Offset: **+5.00 MHz**  
D\*Star Rpt1 Id: **"N0CXX B"**  
Gateway Rpt2 Id: **"N0CXX G"**

#### Typical Usage

Field	Value
YOUR:	CQCQCQ
RPT1:	N0CXX B
RPT2:	N0CXX G

#### Dplus Link Command

Field	Value
YOUR:	KD0IANBL
RPT1:	N0CXX B
RPT2:	N0CXX G

This links the N0CXX B (442.050) node to the KD0IAN B (70 cm) node.

#### Dplus UNLink Command

Field	Value
YOUR:	U
RPT1:	N0CXX B
RPT2:	N0CXX G

This unlinks any Dplus links.

### 2 Meter

Output Freq: **147.405 MHz**  
Input Freq: 146.415 MHz  
Freq Offset: **-0.990 MHz**  
D\*Star Rpt1 Id: **"N0CXX C"**  
Gateway Rpt2 Id: **"N0CXX G"**

#### Typical Usage

Field	Value
YOUR:	CQCQCQ
RPT1:	N0CXX C
RPT2:	N0CXX G

#### Dplus Link Command

Field	Value
YOUR:	REF007AL
RPT1:	N0CXX C
RPT2:	N0CXX G

This links the N0CXX C (147.405) node to the reflector REF007A.

#### Dplus UNLink Command

Field	Value
YOUR:	U
RPT1:	N0CXX C
RPT2:	N0CXX G

This unlinks any Dplus links.

### Dplus Info Command

Field	Value
YOUR:	I
RPT1:	N0CXX B
RPT2:	N0CXX G

This causes gateway to reply by voice and status message on link state.

### Dplus Info Command

Field	Value
YOUR:	I
RPT1:	N0CXX C
RPT2:	N0CXX G

This causes gateway to reply by voice and status message on link state.

## IRCDDDB Commands

A second system of linking D\*Star systems. This system also supports “homebrew” non-Icom systems. This system's distributed database utilizes irc to keep in sync, hence the name *ircddb*.

### 70 cm

#### Typical Usage

Field	Value
YOUR:	CQCQCQ
RPT1:	N0CXX B
RPT2:	N0CXX G

### 2 Meters

#### Ircddb Info

Field	Value
YOUR:	Z
RPT1:	N0CXX C
RPT2:	N0CXX G

#### ircddb Link Command

Field	Value
YOUR:	DCS006VO
RPT1:	N0CXX B
RPT2:	N0CXX G

This links the N0CXX B (442.050) node to reflector DCS006V.

#### ircddb Link Command

Field	Value
YOUR:	DCS006VO
RPT1:	N0CXX C
RPT2:	N0CXX G

This links the N0CXX C (147.405) node to the reflector DCS006V.

#### ircddb UNLink Command

Field	Value
YOUR:	X
RPT1:	N0CXX B
RPT2:	N0CXX G

This unlinks any ircddb links.

#### ircddb UNLink Command

Field	Value
YOUR:	X
RPT1:	N0CXX C
RPT2:	N0CXX G

This unlinks any ircddb links.

## Notes

- **N0CXX online:**
  - dplus status can be seen at <https://n0cxx.dstargateway.org>
  - **N0CXX** details: <http://www.dstarusers.org/viewrepeater.php?system=N0CXX>
  - Reflector REF007 status: <http://REF007.dstargateway.org>
  - DCS006V users: [http://xrf019.onefourteen.com:8080/dcs\\_userV.htm](http://xrf019.onefourteen.com:8080/dcs_userV.htm)
  - ircddb resources: <http://status.ircddb.net>
- Cedar Rapids Users of Dstar mailling list:
  - [crud@rf.org](mailto:crud@rf.org)
  - Subscribe at <https://rf.org/mailman/listinfo/crud>
- All users are currently authorized to link and unlink to repeaters and reflectors
- Practices and policies may evolve. Be aware, check link status, etc.
- Dplus and ircddb are independent, one must check info with the INFO command: “I” for dplus, and “Z” for ircddb link status.
- Dplus LINK command is “L”
- ircddb LINK command is “O”
- The callsign fields have 8 characters. The commands for N0CXX have **TWO** spaces between the callsign and the “I”, “U”, “Z”, etc. That command character is in the last (8th) field.
- Dplus and ircddb systems are **inter-locked**. Only one system can be linked at a time. If one has an active link, the other system is blocked from linking. For example, if someone attempts a dplus link when there is an active ircddb link, the dplus link will fail without any indication why.
- 2M and 450 systems can be independently linked to different systems/reflectors.
- **REF007A** has been proposed as a reflector of midwest systems.
- **DCS006V** has been used as a reflector used by systems in Iowa for a couple of years.