

D-STAR Data Ed Woodrick WA4YIH



DV – Digital Voice
 AMBE Digital Voice with FEC
 960 bps Data Stream
 DD – Digital Data
 128 Kbps Data Stream
 Implemented as Ethernet

DV - Digital Voice

- Entire channel is digital
- **4800** bps
 - 2400 bps Voice
 - I 200 bps FEC
 - I 200 bps Data



Data is sent continuously Whether it is used or not Plain Serial Data Stream No Routing No Error Correction or Detection Implemented as Serial Port Sub-miniature Phone Jack

DV - Digital Voice

Data follows voice
 Heard Locally
 Heard Remotely
 Data is Broadcast
 Everyone hears it

DV - DPRS

- D-STAR Implementation of APRS
- Supported by most repeaters
- Position sent as you talk
- Extra Radio not Required
- IC-2820 is GPS enabled
- IC-92AD has GPS Microphone

- All Data
- No Voice
- Icom ID-I Only
- Radio has RJ-45
- Looks like Ethernet Hub



Point-to-Point

2 ID-I Radios act as Ethernet Cable
Radios DO NOT have IP Addresses

Using Repeater

- Statically Assigned IP Address
- I0.x.x.x Subnet (/8 or 255.0.0.0)
- Gateway 10.0.0.1
- DNS on 10.0.0.1 ???
- Internet Access

 - No Inbound
- Local Hosts Possible

- Using Repeater
 - Email
 - Web Access
 - Limitless Application
 - I28 Kbps

- Connecting a Radio
- Demonstration DD
 - Email
 - Web Browsing
 - D-STAR Calculator

DV - Digital Voice

- Connecting a Radio
- Demonstration DV
 - Terminal to Terminal
 - D*Chat
 - SMS