HAM RADIO ON YOUR SMART PHONE

May 10, 2018 for Majors Field ARC
What can a HAM do with his smart phone? This session will explore some popular applications and capabilities.

CAPABILITIES, YOU SAY?

- Talk to people across the world on other Repeaters or even DMR or D-Star talk groups.

- APRS (Automatic Packet Reporting System) for position and weather information.

- Repeater lookup

- QRZ callsign lookup

- Prepare for your License Exam

- Reference material for HAMS

- DX Cluster

- And much more

OPERATION

- International Radio Network (iOS/Android; Free)
- EchoLink (iOS/Android; Free)
- APRSdroid (Android; $4.95)
- Ham Square (iOS; Free)
- HamGPS (Android; Free)
- Repeater Book (iOS/Android; Free)
- QRZ Assistant (iOS/Android; Free)
- PSK31 (iOS; $2.99)
- Hellschreiber (iOS; $2.99)
- ISS Detector (Android; Free)
- PocketSat3 (Android; $24.99/iOS)
- WSPR Watch (iOS; Free)
- QRSS Beacon (Android; $1.79)
- MacLogger DX HD (iOS – iPad; $39.99)

OPERATION - IRN

- International Radio Network (IRN)
- Uses TeamSpeak3 game conferencing cloud to connect repeaters and talk-groups.
- FREE
- Requires download and install of TeamSpeak3 application
- Available on Windows PC, IOS or Android
- Requires callsign **VALIDATION** before you can transmit.
- Controlled by The Guild Global Talk-group 31674 and the IRN
- Not as much activity of late.
- Radios (Android HTs and Mobile) made specifically for IRN use.

OPERATION - IRN

- Android based Network Radio with PTT for 2G,3G,4G,LTE and WiFi Networks. Also works as a walkie-talkie radio.

- Useful for Echolink or IRN

- Comes with all the accessories.

- Is this HAM RADIO?
    You decide…

OPERATION - IRN

IRN Croslink Server
IRN-International Radio Ne...

🗄 IRN-International Radio Network

~~~~Main Talk Groups~~~~

ˇ 📑 Welcome Channel 🏠 M ★
- 🔵 KB1UPZ - BOB-F22 🛡
- 🔵 KB1UPZ-BOB-PC 🛡
- 🔵 CT1EIZ - Duarte - F22 ⬣
- 🔵 **TA2EE-Burcak** ⬣
- 🔘 N5MXI - David [Waiting to be verified] 🅅

📑 TG1 M ★
📑 TG2 M ★
📑 TG3 (Non-English speaking) M ★
ˇ 📑 TheGuild™ QSO and Nets M ★
- 🔵 G7OKI - Wayne - F25 🛡
- 🔵 N8LLC-JOHN F22 🛡
- 🔵 Zello Crosslink 🔘
- 🔵 11IRN610 -SHORN BASE 🔵

~~~Allstar RF Crosslinks~~~

ˇ 📑 UK Allstar Hub/Alaska Hub M ★
- 🔵 IRN Server 01 UKH 🔘

ˇ 📑 Alabama Link M ★

OPERATION - ECHOLINK

- Application for Android, Windows, IOS, Linux or Raspberry Pi

- Validation process online

- PC/Linux app allows for two modes: SysOp and Single-User.
  - Single-User (CLIENT MODE):
    - Single-User allows half-duplex operation as a node (PTT control)
    - Can connect to any SysOp (group) with or without a repeater
    - Can connect with group that has no repeater
    - Can connect with another Single-User (point to point)
  - SysOp (SERVER MODE):
    - No PTT control, handled by software for RF Node operation.
    - Used to link a group (multiple Single-Users) with or without a repeater
    - Allows one or more Single-Users to connect (controllable)
    - Allows DTMF commands to link conference in another SysOp (repeater).
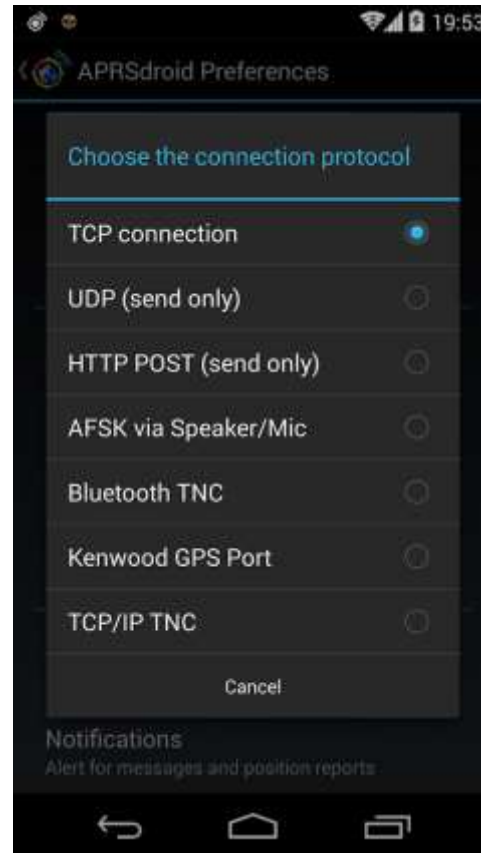
OPERATION - ECHOLINK
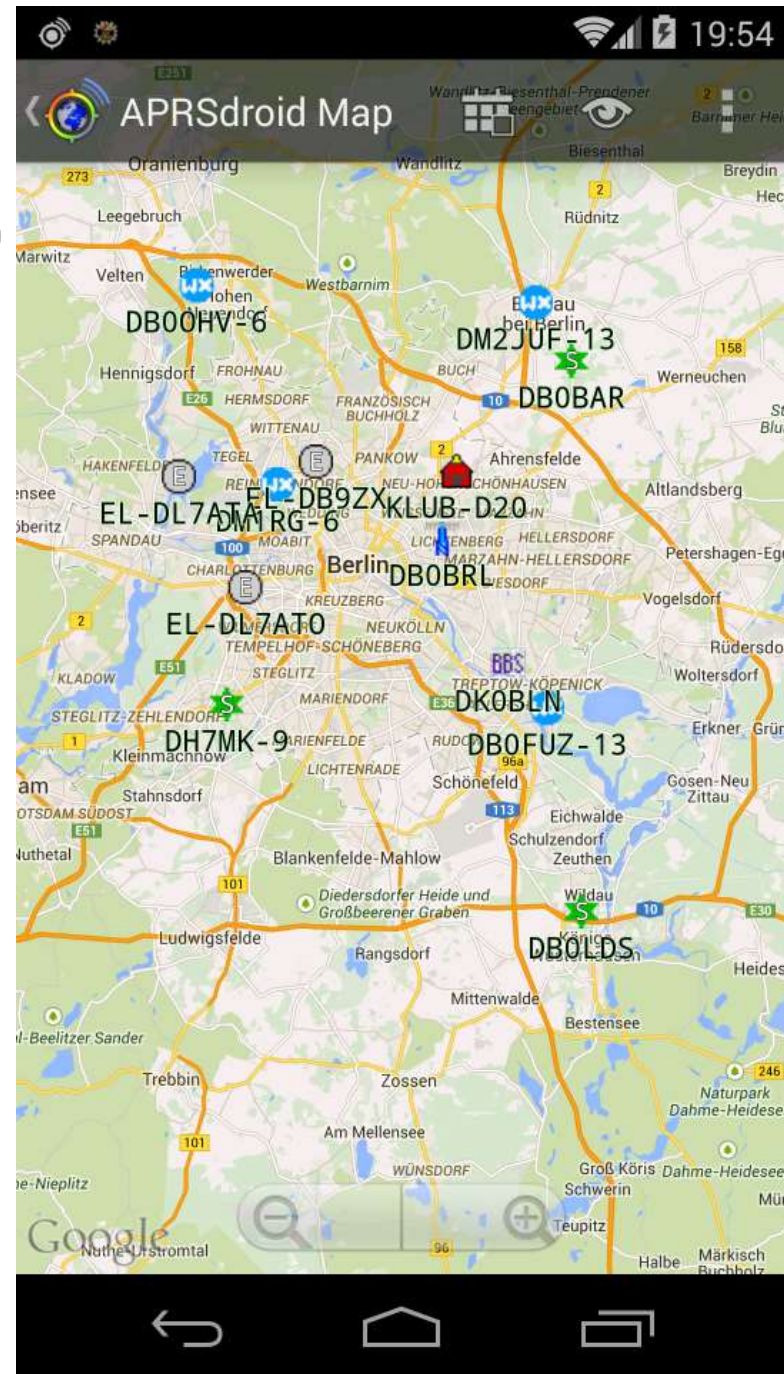
OPERATION — APRSDROID

- Puts APRS on your phone

- Uses phone's GPS to send beacons of your location

- Has interactive map to show you and other reports

- Fully configurable

- Allows you to see packets within your filter based upon location

- Handy, when you don't have a tracker and you need one.

OPERATION – APRSDROID

OPERATION — APRSDROID

TEST PREPARATION

- Amateur Radio Exam Prep (iOS; $4.99)

- HamExam (Windows; Free)

- PalmVE (Android; Free)

- Ham Radio Exam (iOS; Free)

- Amateur Radio Exams 1.5.1 Pro (Android; $2.99)

REFERENCE

- Ham Radio Reference (iOS; Free)
- Ham Radio Tools (Android; Free)
- Ham Reference (Windows; Free)
- HamAntCal (iOS; Free)
- Morse It (iOS; $0.99)
- Morse Code Training apps from KG9E (Android; $1.49)
- Morse Code Trainer (Android; Free)
- MUF Predictor (Android; Free)

DXING SPOTS/DATABASES

- iCluster DX DB (iOS; Free)

- DXFunCluster (Android; $1.13)

- SOTA Goat (iOS; $4.99)

- CommCat Mobile (iOS; Free)

- QRZ Now (Android via Amazon's App store; Free)

RIG-SPECIFIC APPS

- KX3 Companion
  (Android; Free and $6.99 version)

SWL APPS

- Skywave Radio Schedules (Android; Free)

- Shortwave Broadcast Schedules (iOS; $1.99/Android; $0.99)

- Shortwave Radio Schedules (Android; Free)

- Global Tuners (Android/Free)

- glSDR (Android; Free)

- SSTV (iOS; $2.99)

- DroidSSTV (Android; $6.99)

- Interval Signal Ringtones (Android; $1.99)

VIRTUAL TRANSCEIVERS

- HamSphere (iOS/Android; Free)

SCANNING APPS

- Scanner Radio (Android; Free)

- Scanner Radio Pro (Android; $2.99)

- Action Scanner Lite (iOS; $1.99)

- Action Scanner Pro (iOS; $2.99)

MARINE APPS

- DroidNavtex (Android; $9.99)

- HF Weather Fax (iOS/Android; $9.99)

AVIATION APPS

- LiveATC (Android; $3.99/iOS; $3.99)