Newcomers and Elmers Net: Online Resources Robert AK3Q

Broadcastify – Audio Streams of Public Safety, Aircraft, Railroad, Amateur and Marine

For individuals, you can listen to over 5000 streams for free

- You can also broadcast your scanner or amateur radio to others for free
- And there is a premium service for searching through 6 months of archives; unrestricted listening times; custom feed pages; no adverts
- The premium service comes through Radioreference.com

Various ways to search for stations – interactive map or you can search by state, city, or zip: 45202

Listen	Feed	Genre	Listeners	Player Selection	Links	Status
	Anderson Township Fire	Public Safety	0	HTML5 Web Player		Offline
	Cincinnati Area Skywarn (WARN) WB8CRS 146.880 MHz Weather Amateur Radio Network (WARN) - The WARN weather net covers 17 counties in southwest Ohio, northern Kentucky, and southeast Indiana. The W8NWS net control point is located in WLW radio's newsroom.	Amateur Radio	0	HTML5 Web Player		Online
	Cincinnati Fire City of	Public Safety	11	HTML5 Web Player		Online

	Cincinnati Fire Department, on Ohio MARCS - IP CFD Zone A EMS and Fire Zones B-J.					
	Cincinnati, Norwood and University of Cincinnati Police Dispatch	Public Safety	3	HTML5 Web Player		Online
	Hamilton County Amateur Repeaters ARES Activities In Hamilton County	Amateur Radio	0	HTML5 Web Player		Online
	Hamilton County Fire and Sheriff - East	Public Safety	2	HTML5 Web Player		Online
	Hamilton County Metro Fire and EMS Scanning Cincinnati / Hamilton County Fire & EMS	Public Safety	1	HTML5 Web Player		Online
	Hamilton County Police, Fire and EMS Dispatch Covering police and fire dispatch & operations for the suburbs of Cincinnati,	Public Safety	35	HTML5 Web Player		Online

	including the city of Norwood and county firegrounds. **UPDATED FOR MARCS-IP**					
	K8SCH 146.6700 MHz OH-KY-IN Repeater	Amateur Radio	0	HTML5 Web Player		Online
	Southwest Ohio Railroads	Rail	2	HTML5 Web Player		Online

Some of the obvious uses of a service like this is to keep track of what is going on while at work where you might not be able to have a scanner or amateur gear with you

- Or you can use something like this on your lunch break or strolling around the neighborhood
- Be careful not to rebroadcast these feeds over the air or through a repeater – that's an FCC no-no
- - can't even be playing in the background where one of your transmissions could pick it up

Online SDR Sites

- Websdr.org
- Globaltuners.com
- http://websdr.ewi.utwente.nl:8901/wspr/
- http://w7rna.dyndns-remote.com:18901/
- http://k2sdr.dyndns.org:8902/
- http://k2sdr.dyndns.org:8902/
- http://kiwisdr.jks.com:8073/

openSPOT is a standalone digital radio IP gateway / hotspot

Key features:

- Supports **DMR** (Brandmeister, DMRplus), **D-Star** (DCS, REF/DPlus, XRF/DExtra, XLX), **System Fusion** (FCS, YSFReflector) networks. More supported networks and features will be available with new firmware releases.
- Supports cross modem modes. Talk with your C4FM radio on DMR, and with your DMR radio on System Fusion networks!
- Very easy to use, works without a computer. No additional hardware required, works out of the box. All accessories included.
- Web interface for configuration and monitoring.
- HTTP, UDP/TCP API support.
- Custom 2FSK/4FSK RF protocol support with TDMA.
- USB powered, low energy consumption, 20mW RF output.
- Create your own private radio network using our open source server application.
- Runs fully embedded software written in pure C, running on an embedded real time operating system. No Linux, bulky Windows software or failing SD cards!
- Use openSPOT not only as a DMR hotspot, but as a base or mobile station with 2 timeslots simultaneously
- Timeslot repeating in base station/repeater mode
- Send and receive DMR SMS messages
- Built-in echo service
- Controllable with calls and custom short messages to preconfigured DMR IDs

WIRES-X System Fusion – HRI-200

Interface between computer and system fusion radio – provides a hotspot for Internet access to Yaesu computer servers/talk rooms

- Can use an analog radio to communicate with the WIRES-X groups – servers parse out digital/analog audio as needed; thus mixed groups are possible

DMR-MARC Worldwide network

http://www.dmr-marc.net/

What is DMR?

Digital Mobile Radio (DMR) was developed by the European Telecommunications Standards Institute (ETSI) and is used worldwide by professional mobile radio users. [http://www.dmrassociation.org]
DMR is divided into three tiers. Tier I is a single channel specification originally for the European unlicensed dPMR446 service. It is a single channel FDMA 6.25 kHz bandwidth; the standard supports peer-to-peer (mode 1), repeater (mode 2) and linked repeater (mode 3) configurations. The use of the Tier I standard has been expanded into radios for use in

other than the unlicensed dPMR446 service. [http://www.dpmr-mou.org]
Tier II is 2-slot TDMA 12.5 kHz wide peer-to-peer and repeater mode specification, resulting in a spectrum efficiency of 6.25 kHz per channel. Each time slot can be either voice and/or data depending upon system needs. IP Site Connect (IPSC) for interconnecting repeaters over the Internet is vendor specific and is not part of the ETSI standards at this time. Most amateur radio implementations of DMR are using voice on both time slots.
Tier III builds upon Tier II, adding trunking operation involving multiple repeaters at a single site. Not all manufacturers' trunking implementation is Tier III compatible. Vender specific protocols have expanded the trunking to multiple site operations.
It is Tier II that amateurs are implementing in their Mototrbo™ [http://www.motorolasolutions.com] and Hytera [http://www.hytera.com] infrastructure networks and the focus of this booklet. The IPSC protocols used by the different brand repeaters are not compatible; it is doubtful the equipment manufacturers will ever standardize for business reasons. Any brand DMR (Tier II) user radio will work on any Tier II system, although some manufacturers offer proprietary features.

Amateur Mototrbo™ and Hytera DMR networks, from the end user standpoint, operate the same. Amateur Mototrbo™ networks are much larger, cover many more areas, and most are interconnected. I look forward to the day when the multiple vendor infrastructures can be interconnected by the amateur community. Not all the amateur DMR repeaters are connected to the wide area networks; some are standalone either because they have yet to obtain an ISP connection at their repeater site or because they just want to use the repeater for local communications. Some standalones are operating in dual-mode (analog/digital). Mototrbo™ repeaters operating in dual-mode do not support interconnection via the Internet using IPSC.
Some hams have installed DMR repeaters in a vehicle, using 3G/4G cellular wireless services for Internet access. Others have implemented remote bases to interconnect to other networks or radios; it is important to remember that the wide area networks typically have policies prohibiting interconnected traffic, but what is implemented locally and stays local is acceptable.

Talk Groups

Talk Groups (TG) are a way for groups of users to share a time slot (one to-many) without distracting and disrupting other users of the time slot.
It should be noted that only one Talk Group can be using a time slot at a time. If your radio is not programmed to listen to a Talk Group, you will not hear that Talk Group's traffic.

Using RTL-SDR dongle to decode digital modes

http://www.rtl-sdr.com/rtl-sdr-radio-scanner-tutorial-decoding-digital-voice-p25-with-dsd/

Online TV Shows
http://twit.tv/show/ham-nation

http://www.spreaker.com/show/ham-talk-live

http://100wattsandawire.com/

http://www.livefromthehamshack.tv/

http://podcasts.itmaze.com.au/