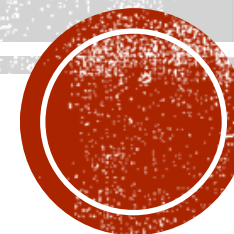


BRANDMEISTER NETWORK

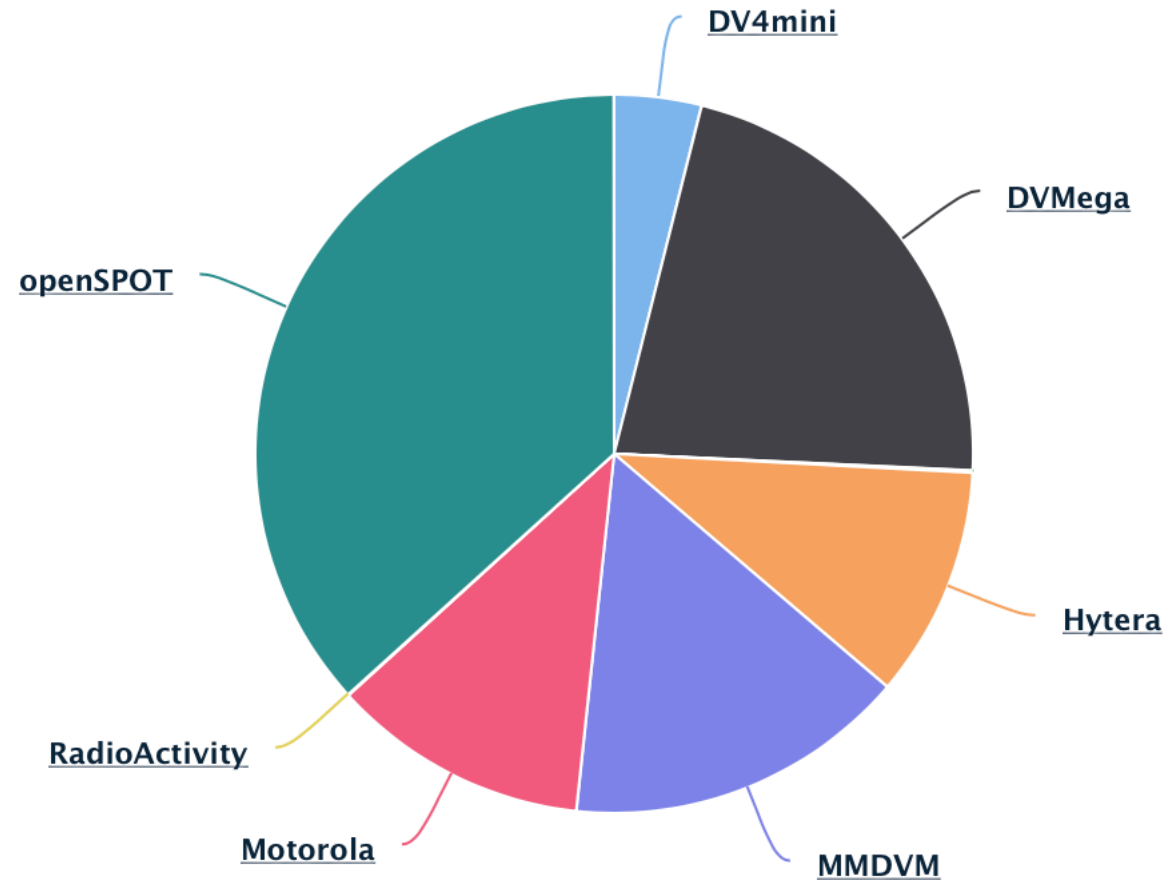
Artem R3ABM

HamRadio 2017



GROWING UP

- 58 countries
- 36 servers (including testbeds)
- 1100+ repeaters
 - 380+ Motorola
 - 340+ Hytera
 - 400+ MMDVM
 - At least 3 RadioActivity 😊
- 2300+ hotspots
 - 800+ DV MEGA
 - 140+ DV4mini
 - 100+ MMDVM
 - 1200+ openSPOT
- 25000+ active users
- ... we started at Nov 2015!



NEW FEATURES

SPECIAL TO HAMRADIO 2017

- Air Security
- Personal passwords for Hotspots
- Improved support of RadioActivity KAIROS DMR Repeater
- Support of Abell R-80 DMR Repeater
- Timeout timer for Talk Groups




AIR SECURITY

- **Do you want to protect your ID on the air from illegal use?**
- Air Security allows to make time-limited access using your ID
- Air Security is optional, you can turn it on or off via Dashboard
- At this moment Air Security can protect calls that go via master server only
- Two options to activate an access session:
 - By pressing button at Dashboard
 - By sending TOTP password on the air (SMS or private call)
- Your access session will alive for half an hour on all repeaters and hotspots connected to the same master server



AIR SECURITY • ACTIVATE VIA WEB

Brand	Hytera / Kenwood	Language	Русский
APRS Interval	Off	APRS Callsign	R3ABM-7
APRS Icon		In Call GPS	<input checked="" type="checkbox"/>
		APRS Text	R3ABM

AirSecurity / TOTP	<input checked="" type="checkbox"/>	
Enable Time	15 min	<input type="button" value="Enable PTT now"/>

PTT is now enabled for the next 14 minutes.

Hotspot Security	<input type="checkbox"/>
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AIR SECURITY • TOTP ON THE AIR

■ How it works?

- Based on Time-based One-time Password Algorithm (RFC 6238)
- Dashboard creates unique secret only known to your TOTP app and BrandMeister
- TOTP app generates unique passcode every 30 seconds
- You should send this passcode to BrandMeister to open access session



AIR SECURITY • HOW TO PREPARE


- Install any TOTP app to your smartphone (it could be Google Authenticator)
- Turn on AirSecurity at BrandMeister's Dashboard
- Scan QR-code via TOTP app
- Press SAVE button at Dashboard



AIR SECURITY • HOW TO PREPARE


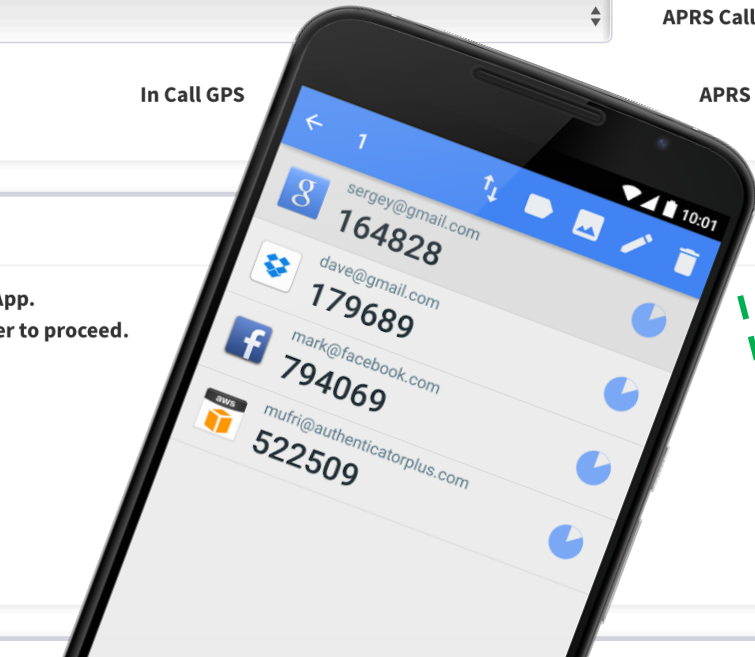
Brand: Motorola Language: Русский

APRS Interval: 180 sec APRS Callsign: R3ABM-9

APRS Icon:  In Call GPS: APRS Text: R3ABM

AirSecurity / TOTP On

Scan this QR-Code with your preferred TOTP App.
When done press Save in the lower right corner to proceed.



vmvf j6rz ocjt j3i6 nrvu 5hmg 67fs xzc7



AIR SECURITY • HOW TO USE

- Open TOTP app
- Switch your radio to enter Private ID
- Enter 9 and then 6 digits of active TOTP password shown on the screen of TOTP app
- Press PTT to send call



PERSONAL PASSWORDS

- You can switch from use of default server passwords to your private password
- BrandMeister DMR Server allows to set personal password to any connected device ID that supports authentication (and we know how to do it)
- If you want to setup personal password to repeater please ask your server sysop
- Personal passwords for hotspots can be managed via Dashboard




PERSONAL PASSWORDS • HOTSPOT

200001 (RADM) 200002 (RADM)

Brand Motorola

APRS Interval 180 sec **AF**

APRS Icon  **In Call GPS** Off

AirSecurity / TOTP Off

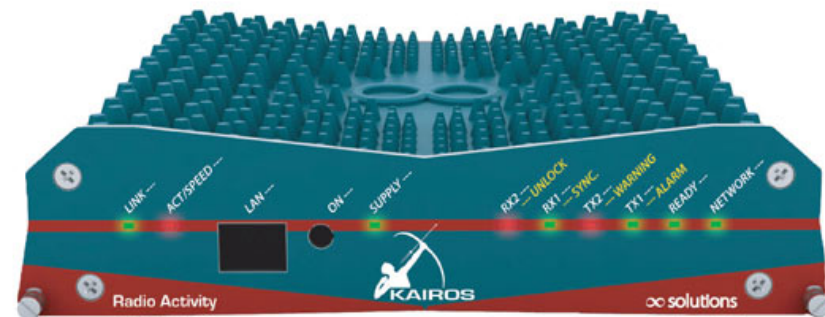
Hotspot Security On

Password



KAIROS DMR REPEATER

- Special firmware for Radio Amateurs
- Requires to install our special software CronosAgent close to repeater (can be installed to OpenWRT, Raspberry Pi, x86 Linux machine or macOS)
- Supports simulcast broadcasting!
- New features:
 - Gather frequencies, color code, system state, geo-location
 - Enable / Disable repeater remotely
 - Improved transmission quality



ABELL R-80 DMR REPEATER

- Cheap factory-made repeater
- At this moment R-80 supports voice calls only (no data calls or CSBK)



TIMEOUT TIMER

- Sometimes operators talk too long 😊
- Timeout timer allows TG trustee to limit talk time of each call
- Value of timer can be defined by per group basis

