



AOC



The Electronic Warfare and Information Operations Association



AOC Government Affairs Update

Chesapeake Bay Roost Meeting

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Association of Old Crows

- 2010 Policy Agenda
- Radio Spectrum Inventory and Reallocation Process
- Comprehensive EW Strategy
- The Way Ahead: Challenges & Opportunities

2010 Policy Agenda



- Ensure Radio Spectrum Inventory and Reallocation Protects National Security and Supports Joint Warfighter Mission Effectiveness
- Expand Future Joint EW Capabilities
- Develop Comprehensive EW Strategy
- Protect EW Industrial Base

Spectrum Inventory & Reallocation



- Purpose:
 - To create an inventory of radio spectrum bands and reallocate “underutilized” spectrum for commercial purposes.
 - To reform and expedite the process of clearing federal users from spectrum that has been reallocated for commercial use.
- Issues of Concern:
 - Effect on the warfighter and investment
 - Eligibility for Spectrum Relocation Fund
 - Decision-making authority

Comprehensive EW Strategy



- 21st Century Electronic Warfare Report
- Amendment to the FY 2010 National Defense Authorization Act
- Future of EW Symposium and Report
- EW Working Group Feedback

“The [DOD] needs a comprehensive and unified strategy across the armed services to control the electromagnetic spectrum, and Congress needs to know what that strategy is.”

– Rep. Rick Larsen (WA—02), Co-chairman of the Congressional EW Working Group.

Conclusion



- Challenges and Opportunities
- Questions

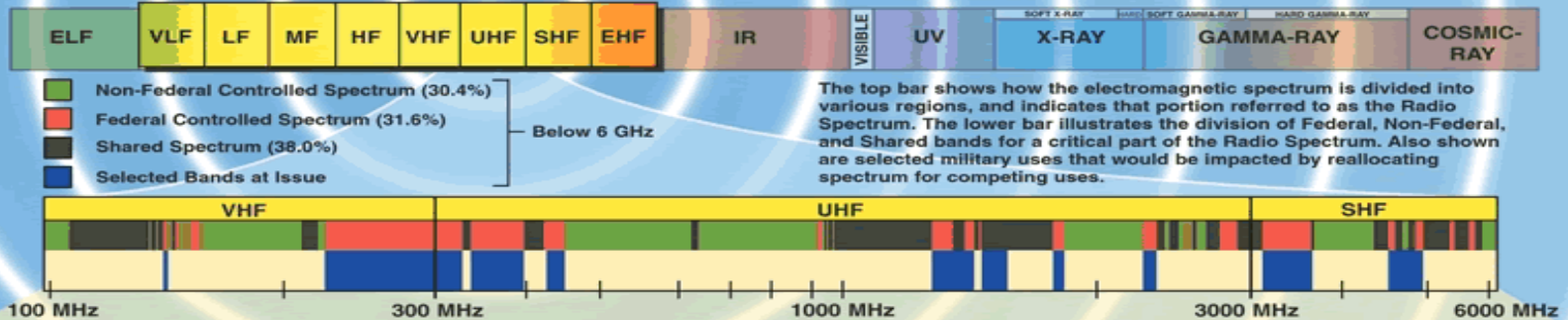
“The demands of the current fight mean we must increase capacity in several areas, including . . . electronic warfare[.]”

– Admiral Michael G. Mullen, Chairman of the Joint Chiefs of Staff,
before the Senate Armed Services Committee

Background on Legislation

Electromagnetic Spectrum

THE RADIO SPECTRUM



Selected Bands at Issue

<p>138 - 144 MHz</p> <p>Military Uses Land Mobile Radio Tactical Air / Ground / Air</p> <p>Competing Uses Little LEOs Public Safety</p>	<p>1215 - 1390 MHz</p> <p>Military Uses Long / Medium Range Air Defense Radio Navigation Air Route Surveillance Radars Tactical Communications Test Range Support Air / Fleet Defense Drug Interdiction GPS Remote Satellite Sensors Nuclear Detection</p> <p>Competing Uses MSS NLMCS Wind Profiler Radars</p>	<p>3100 - 3650 MHz</p> <p>Military Uses High Power Mobile Radars Shipboard ATC Missile Links Airborne Station Keeping</p> <p>Competing Uses MDS WLL FSS</p>
<p>225 - 400 MHz</p> <p>Military Uses Tactical Air / Ground / Air Data Links Satellite Comm Military ATC Search & Rescue Executive Comm Tactical Comm</p> <p>Competing Uses Little LEOs Public Safety Terrestrial DAB CMRS Space Research</p>	<p>1435 - 1525 MHz</p> <p>Military Uses Telemetry Supporting Entire Aerospace Industry</p> <p>Competing Uses DAB / DARS MSS NLMCS</p>	<p>4400 - 4940 MHz</p> <p>Military Uses Fixed Wideband Comm Mobile Wideband Comm Command Links Data Links</p> <p>Competing Uses GWCS FSS Public Safety</p>
<p>400.15 - 401 MHz</p> <p>Military Uses DMSP (↓)</p> <p>Competing Uses MSS</p>	<p>1755 - 1850 MHz</p> <p>Military Uses DoD Satellite TT&C (↑) Point-to Point Microwave Air Combat Training Systems Tactical Comm Tactical Data Links</p> <p>Competing Uses PCS MDS 3G Wireless / IMT 2000</p>	<p>ATC - BM - CMRS - DAB - DARS - DMSP - FSS - GPS - GWCS - IMT 2000 - LEO - MDS - MSS - NLMCS - PCS - TT&C - WLL -</p> <p>Air Traffic Control Ballistic Missile Commercial Mobile Radio Service Digital Audio Broadcast - Terrestrial Digital Audio Radio Service - Satellite Defense Meteorological Satellite Program Fixed Satellite Service Global Positioning Satellite General Wireless Communications Service 3rd Generation Mobile Telephony Low Earth Orbit Multipoint Distribution System Mobile Satellite Service New Land Mobile Communications Service Personal Communications Service Tracking, Telemetry and Command Wireless Local Loop</p>
<p>420 - 450 MHz</p> <p>Military Uses BM Surveillance and Early Warning Radars Shipboard / Airborne Early Warning Radars Missile / Air Vehicle Flight Termination Troop Position Location Anti-Stealth Radar Foliage Penetration Radar</p> <p>Competing Uses Auxiliary Broadcast CMRS Biomedical Telemetry WLL MSS EES (active)</p>	<p>2200 - 2290 MHz</p> <p>Military Uses DoD Satellite TT&C (↓) Guided Missile Telemetry Point-to-Point Microwave</p> <p>Competing Uses PCS MDS WLL</p>	

Background on Legislation



UNITED STATES FREQUENCY ALLOCATIONS THE RADIO SPECTRUM

RADIO SERVICES COLOR LEGEND



ACTIVITY CODE



ALLOCATION USAGE DESIGNATION

SERVICE	EXAMPLE	DESCRIPTION
Primary	FIXED	Capital letters
Secondary	Mobile	1st Capital with lower case letters

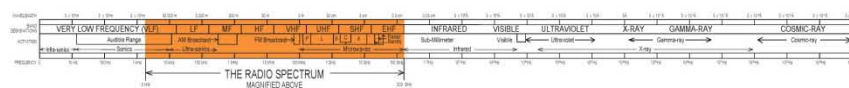
This chart is a graphic representation in the public domain of the Table of Frequency Allocations owned by the FCC and is not to be used for any other purpose. It does not constitute an offer of any service, facilities and related charges known to the Table of Frequency Allocations. Changes for satellite operations, which should appear in the Table to determine the correct status of U.S. allocations.



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National Telecommunications and Information Administration
Office of Spectrum Management
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