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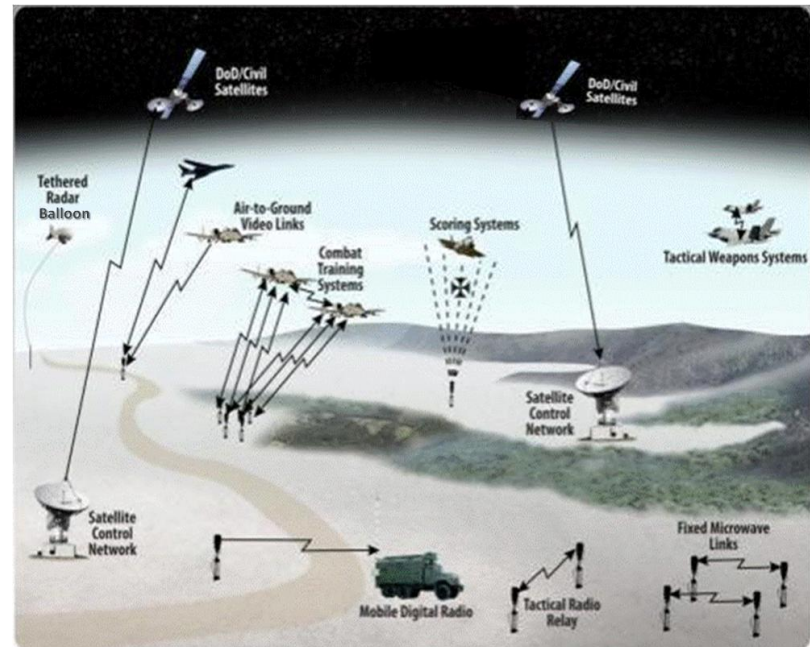
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## **1755 – 1850 MHz Spectrum Sharing**

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# Federal Government Spectrum Activities 1755 – 1850 MHz

- NTIA identified Fast Track Report (Oct 2010)
- Identified the following systems:
  - Fixed point-to-point microwave
  - Military tactical radio relay
  - Air combat training system
  - Precision guided munitions
  - Law enforcement mobile video surveillance
  - High-res (fixed or transportable) video data links for surveillance
  - Tracking, telemetry, & command for federal space systems
  - Air-to-ground telemetry
  - Land mobile robotic video functions (e.g., explosive ordnance disposal (EOD) and hazardous material investigations and disposals)
  - Unmanned aerial systems (UAS), unmanned aerial vehicles (UAV), and remotely piloted vehicles (RPV)



# CSMAC Working Groups

- **WG1: 1695-1710 MHz Meteorological-Satellite**
  - Improved modeling of commercial wireless network and possible reduction of exclusion zones
- **WG2: 1755-1850 MHz Law Enforcement Surveillance, Explosive Ordnance Disposal, and other short distance links**
  - Correlation of agency city by city transition plans with industry implementation priorities, prioritizing vacating the 1755-1780 MHz portion
- **WG3: 1755-1850 MHz Satellite Control and Electronic Warfare**
  - Definition and specification (including any interference acceptance rules) of zones around satellite sites
  - Coordination path and rules for electronic warfare development and training
- **WG4: 1755-1850 MHz Tactical Radio Relay and Fixed Microwave**
  - Definition and specification (including any interference acceptance rules) of zones around DoD sites that require access
  - Relocation process of fixed microwave links starting from the 1755-1780 MHz
- **WG5: 1755-1850 MHz Airborne Operations (Air Combat Trainings System, Unmanned Aerial Vehicles, Precision-Guided Munitions, Aeronautical Telemetry)**
  - Determination of protection requirements for federal operations
  - Understanding of periodic nature and the impact to commercial wireless of government airborne operations

# CSMAC Direction

- Working Groups will produce written recommendations to the CSMAC concerning
  - Approaches to sharing
  - Transition and/or relocation of the band that will determine the steps that will have to be taken
  - Any factors that may reduce the projected costs, or limitations or restrictions on spectrum availability
- For the 1755-1850 MHz band, need to consider steps that might support earlier auction and entrance of service providers in the 1755-1780 MHz portion, where feasible, while maintaining the goal of the entire 1755-1850 MHz band (i.e., cannot simply relocate from 1755-1780 into upper portion)
- Each group is must try to determine if incoming industry systems can or cannot share with a particular incumbent federal system.
- Where sharing is feasible, the groups should explain the proposed manner of sharing in a way that could potentially be incorporated into service rules
- Where available and appropriate, WGs should use information coming out of the measurements.
- Reports due by June 2013

# 1755 – 1850 MHz Allocations

| AGENCY                                     | WG-2   |  |   | WG-3  | WG-4                           |                               | WG-5                        |                            |                         |               | TOTALS      |
|--|--|--|---|---|--------------------------------|-------------------------------|-----------------------------|----------------------------|-------------------------|---------------|-------------|
|  | Law Enforcement Mobile Video Surveillance Applications | Land Mobile Robotic Video Functions (e.g. EOD & Hazardous Waste Disposal, etc) | High-Resolution Video Surveillance (fixed or transportable) | Telemetry, Tracking, and Commanding for Federal Space Systems | Fixed Point To Point Microwave | Military Tactical Radio Relay | Air Combat Training Systems | Precision Guided Munitions | Air-to-Ground Telemetry | UAS, UAV, RPV |             |
| AF (Air Force)                             |  | 61   | 2   | 220   | 12                             |                               | 273                         | 1                          | 186                     | 45            | 800         |
| AID (Agency for International Development) |  |  | 1   |   |                                |                               |                             |                            |                         |               | 1           |
| AR (Army)                                  |  | 4  | 36  |   | 45                             | 408                           | 4                           |                            | 19                      | 378           | 894         |
| DHS  | 25   |  |   |   | 152                            |                               |                             |                            |                         |               | 177         |
| DOC  |  |  |   | 1   | 8                              |                               |                             |                            |                         |               | 9           |
| DOE  |  | 2  |   |   | 91                             |                               |                             |                            |                         |               | 93          |
| DOI  | 1  |  | 1   |   | 26                             |                               |                             |                            |                         | 6             | 34          |
| DOJ  | 7  | 7  | 75  |   |                                |                               |                             |                            |                         |               | 89          |
| FAA  |  |  |   |   | 8                              |                               |                             |                            |                         |               | 8           |
| HHS (Health and Human Services)            |  |  | 1   |   |                                |                               |                             |                            |                         |               | 1           |
| HUD  |  |  | 6   |   |                                |                               |                             |                            |                         |               | 6           |
| MC (Marine Corps)                          |  |  |   |   | 4                              | 169                           |                             |                            |                         | 21            | 194         |
| N (Navy)                                   |  | 6  |   | 48  | 14                             | 2                             | 430                         | 20                         | 303                     | 14            | 837         |
| OPM (Office of Personnel Management)       |  |  | 1   |   |                                |                               |                             |                            |                         |               | 1           |
| NASA                                       |  |  |   |   |                                |                               |                             |                            | 6                       | 11            | 17          |
| T (Treasury)                               |  |  | 10  |   |                                |                               |                             |                            |                         |               | 10          |
| USCP                                       |  |  | 5   |   |                                |                               |                             |                            |                         |               | 5           |
| USPS                                       |  |  | 3   |   |                                |                               |                             |                            |                         |               | 3           |
| VA   |  |  | 4   |   |                                |                               |                             |                            |                         |               | 4           |
| (DOD)                                      | 0  | 71   | 38  | 268   | 75                             | 579                           | 707                         | 21                         | 508                     | 458           | 2725        |
| <b>TOTAL</b>                               | <b>33</b>  | <b>80</b>  | <b>145</b>  | <b>269</b>  | <b>360</b>                     | <b>579</b>                    | <b>707</b>                  | <b>21</b>                  | <b>514</b>              | <b>475</b>    | <b>3183</b> |