



ENHANCE SPECTRUM MANAGEMENT

Spectrum Management

"Efficiently Exploiting the Spectrum to meet Warfighter Needs"



The strength of our military to successfully conduct operations is partially dependent on our ability to access, manage, and exploit the constrained electromagnetic spectrum in a timely manner. Due to significant growth in spectrum demands by deployed systems and increased competition from commercial and civil interests, today's warfighters face severe limitations in accessing the electromagnetic spectrum (EM). The Joint Staff J6 is working to resolve issues to ensure spectrum supportability and access. We are also aggressively working CENTCOM's needs as thousands of jammers have been employed to counter the threat of roadside Radio Controlled Improvised Explosive Devices (RCIED). Spectrum management is crucial to success in this area.

Our transformation focuses on the:

- Development of a rapid spectrum planning and management process
- Consideration of Spectrum in the Common Operational Picture (COP)
- Codified means for identifying and pre-planning spectrum demands
- Ability to determine and resolve potential spectrum conflicts
- Development of a Standardized Spectrum Requirements Database and Automated Tool
- Consideration of Coalition Forces and Host-Nation Spectrum Requirements in Planning
- Provisions to accommodate Transformation Doctrine, Concepts and Force Structures
- Support Spectrum Certification for spectrum dependent systems during concept and development

In order to effectively transform, we must invest in new near-term and long-term spectrum management tools. The Coalition Joint Spectrum Management Planning Tool (CJSMPT) is the first step to transforming the way we do business and will be followed by the development of the Global Electromagnetic Spectrum Information System (GEMSIS).

CJSMPT will facilitate spectrum management by displaying a near real-time, three-dimensional view of frequency use in the Battlespace. For the long term, the system will automate the planning and efficiently manage battlefield spectrum. A key feature of CJSMPT is its robust simulation capability that can predict and visualize potential interference from maneuvering forces. The first phase is currently scheduled to be deployed during the 4th Quarter of FY 07 and will satisfy the following four critical capability gaps:

- Deconfliction of Blue Force Comms and Electronic Warfare emitters
- Visualization of spectrum use
- Development of common database
- Deliberate spectrum mission planning

GEMSIS will be the joint program of record that will transform spectrum operations from a pre-planned and static frequency assignment into a dynamic, responsive and agile capability to request, assign, allocate, and deconflict portions of the electromagnetic spectrum. The initial steps to make this a reality are well underway and it has the complete buy-in of the DoD Stakeholders. The expected IOC is FY11. The success of this POR depends on the ability of the DoD team to work together.

*"One of the greatest challenges of the war has been managing the RF Spectrum."
John Abizaid, General (retired), United States Army, former CENTCOM CC*