DEFENSE INFORMATION SYSTEMS AGENCY
P. O. BOX 4502
ARLINGTON, VIRGINIA 22204-4502

DISA CIRCULAR 300-100-1* 21 June 2010

FREQUENCIES

Electromagnetic (EM) Spectrum Management and Use

1. **Purpose**. This Circular prescribes policy, highlights procedures, and assigns responsibilities for electromagnetic (EM) spectrum management and use within the Defense Information Systems Agency (DISA).

2. **Applicability**. This Circular applies to those elements of DISA which plan for, budget for, or utilize EM spectrum. It also provides information for other governmental organizations that operate and maintain the Global Information Grid (GIG).

3. **Authority**. This Circular is published in accordance with the authority contained in DoD Instruction 4650.01, Policy and Procedures for Management and Use of the Electromagnetic Spectrum, 9 January 2009.

4. **References.**

4.1 National Telecommunications and Information Administration, Manual of Regulations and Procedures for Federal Radio Frequency Management, as amended. (http://www.ntia.doc.gov/osmhome/redbook/redbook.html)

4.2 WHCA Instruction 3-130, Presidential Communications Support Guide, 8 December 2006.

4.3 DoD Directive 8100.02, Use of Commercial Wireless Devices, Services, and Technologies in the Department of Defense (DoD) Global Information Grid (GIG), 14 April 2004.

4.4 DISA MOA DSO-07-001, ASMD SA #07-001, NMSC MOA #10/137, DSCS Agreement between the SATCOM Operations Division, Defense Information Systems Agency (DISA); Defense Spectrum Organization, DISA; Army Spectrum Management Directorate (ASMD);

Navy and Marine Corps Spectrum Center (NMCSC)[1] and Air Force Frequency Management Agency (AFFMA), as amended. (https://workspaces.disa.mil/gm/document-1.9.411002/DSO-07-001.PDF)

4.5 DISA Instruction 610-225-2, Acquisition Oversight and Management, 4 June 2009.

4.6 DoD Instruction 5000.02, Operation of the Defense Acquisition System, 8 December 2008.

4.7 DISA Circular 310-130-1, Submission of Telecommunications Service Requests, 4 April 2000.

4.8 DoD Instruction 4630.09, Wireless Communications Waveform Development and Management, 3 November 2008.

4.9 WHCA Instruction 3-116, Radio Requirements, 29 November 2006.

4.10 U.S. Strategic Command Instruction 714-1, Department of Defense Gateways (STEP/Teleport), 2 February 2006.

4.11 MCEB Pub 8, Standard Spectrum Resource Format (SSRF), 2 March 2009.

5. **Definitions and Glossary of Terms**. Definitions and glossary of terms are provided at the enclosure.

6. **Policy**. Department of Defense Instruction (DoDI) 4650.01 (authority document),

6.1 The management and use of EM spectrum will be considered as part of all planning, research, development, and operational activities within DISA. In accordance with Department of Defense Instruction (DoDI) 4650.01 (authority document), all DISA planning that involves use of EM spectrum will address the engineering and management considerations associated with EM spectrum early in the planning stages to ensure spectrum supportability. Specific attention and effort must be devoted

[1] The Army Spectrum Management Directorate (ASMD) was reorganized and became the Army Spectrum Management Office (ASMO), an element under Headquarters, Department of the Army, Chief Information Office/G6 (HQDA/CIO/G6), effective October 2009. The correct acronym for Navy and Marine Corps Spectrum Center is NMSC.

to conservation, sharing, and efficient use of EM spectrum. With very few exceptions, the rules and regulations of Radio Regulations of the International Telecommunication Union (ITU) and National Telecommunications and Information Administration (NTIA) Manual of Regulations and Procedures for Federal Radio Frequency Management (reference 4.1) will be followed. For operations outside of the United States and its possessions (US&P), the rules, regulations, and policies established by host nations (HNs) and/or combatant commands may also apply. The DISA activity waiver requests should be made to the DISA Defense Spectrum Organization (DSO) except for waiver requests related to Presidential mission support requirements, which will be handled directly by DISA White House Communications Agency (WHCA), as specified by WHCA Instruction 3-130, Presidential Communications Support Guide (reference 4.2).

6.2 In accordance with DoDI 4650.01, subparagraph 4.e, DoD Components shall identify risks and effect design and procurement decisions for their spectrum-dependent systems via the spectrum supportability risk assessment (SSRA). The SSRA shall be reviewed at acquisition milestones, and risks shall be managed throughout the system life cycle.

6.3 In accordance with DoDI 4650.01, enclosure 3, table 2, Military Communications-Electronics Board (MCEB) spectrum support guidance must be obtained before assuming contractual obligations with respect to development and procurement of telecommunications equipment designed to radiate or receive EM energy. The DISA activity EM spectrum support requirements shall be sent through DISA DSO for introduction and review by the Equipment Spectrum Guidance Permanent Working Group (ESG PWG) of the MCEB Frequency Panel (FP), as early in the acquisition cycle as practical. After ESG PWG review, a designated Military Department Frequency Management Office (FMO) will forward DISA's spectrum support requirements to the appropriate combatant command for coordination with HN(s) where the equipment is intended to be deployed.

6.4 Exceptions to subparagraph 6.3 shall be made for Presidential mission support requirements, in accordance with reference 4.2. Specifically, WHCA shall obtain, through the respective American Embassy from HN(s), an SSRA as early as possible prior to development or procurement of any spectrum-dependent equipment or system intended for use within that HN. The WHCA shall coordinate with HN(s) to obtain operating frequencies where the equipment is intended to be deployed.

6.5 In accordance with DoDI 4650.01, subparagraph 4.d, DoD Components shall obtain United States Government (USG) certification of spectrum support, as required by reference 4.1, prior to authorization to operate for experimental testing, development testing, or operations of spectrum-dependent systems in US&P. As required by Part 2, Section 33.4 of Office of Management and Budget Circular A-11, Preparing and Submitting Budget Estimates, as amended, USG certification shall also be obtained prior to submission of cost estimates.

6.6 Requests relating to Presidential mission support requirements for certification of spectrum support from the NTIA Spectrum Planning Subcommittee (SPS) shall be handled directly by WHCA. All other DISA activity requests for certification of spectrum support shall be sent through DISA DSO to the appropriate Military Department FMO for submission to NTIA SPS for approval.

6.7 Commercial items and off-the-shelf items procured from commercial sources for government use require compliance with the requirements of DoDI 4650.01. In accordance with DoD Directive 8100.02, Use of Commercial Wireless Devices, Services, and Technologies in the Department of Defense (DoD) Global Information Grid (GIG) (reference 4.3), DoD use of low power wireless devices, such as, Institute of Electrical and Electronics Engineers (IEEE) 802.11 local area network equipment and radio-frequency identification systems, must also comply with the requirements of DoDI 4650.01 if they will be interfaced with GIG. The Federal Communications Commission (FCC) licenses commercial devices for civil operations in US&P. Use of any spectrum-dependent equipment outside of US&P requires coordination with the appropriate combatant command of the respective HN. In most cases, DoD use of equipment in nonmilitary and/or nongovernment bands will not take precedence over civil use due to spectrum regulations.

6.8 In accordance with DoDI 4650.01, subparagraph 4.f, current and complete technical performance (parametric) data shall be captured in DoD spectrum management databases to facilitate planning. The DISA activity technical performance data on their spectrum-dependent systems shall be provided to DISA DSO throughout the system life cycle.

7. **Procedures.** Procedures for the management and use of EM spectrum shall be implemented within DISA, in accordance with DoDI 4650.01, enclosure 3 and its appendix, as applicable. This enclosure and appendix contain the procedures regarding

certification of spectrum support and authorization to operate for USG and HNs; spectrum-dependent system technical data; acquisition oversight of spectrum supportability risks; and SSRAs, to include their suggested tasks.

8. **Responsibilities**.

8.1 **Director, Defense Spectrum Organization (DSO)**. The Director, DSO, is responsible, in accordance with DoDI 4650.01 (authority document), for the overall direction and coordination within DISA for matters pertaining to management and use of EM spectrum. The Director, DSO, shall:

8.1.1 Provide DISA representation to MCEB FP and an observer to the Interdepartment Radio Advisory Committee (IRAC), to include their subordinate forums, as appropriate; and designate DISA representation in other DoD, national, and international forums pertaining to EM spectrum management and other spectrum-related matters, as appropriate.

8.1.2 Be the DISA focal point for the development of proposed DoD, national, and international EM spectrum utilization policies, positions, and plans of interest to DISA and GIG operations, ensuring inclusion in DISA planning and programming documents and timely introduction into DoD, national, and international forums concerned with EM spectrum utilization and management.

8.1.3 Ensure efficient utilization of EM spectrum is considered as an integral part of all planning, research, development, and engineering activities within DISA.

8.1.4 Ensure engineering and management associated with EM spectrum within DISA are in consonance with Joint Staff and the Office of the Assistant Secretary of Defense for Networks and Information Integration/DoD Chief Information Officer (OASD(NII)/DoD CIO) guidance; DoD, national, HN, and international regulations; and MCEB policies and procedures pertaining to EM spectrum utilization and management within DoD.

8.1.5 Serve as the DISA lead in the initial review of the parameters of planned DoD and foreign satellite networks.

8.1.6 Assist the designated Air Force Frequency Management Agency (AFFMA) Defense Satellite Communications System (DSCS) representative by confirming earth station equipment parameters,

location, and need for each frequency assignment, set forth in DISA MOA DSO-07-00 (reference 4.4).

8.1.7 Analyze the technical characteristics of newly planned U.S. and foreign satellite networks that are intended for operation in the same frequency bands as present and planned DSCS satellites to determine the possibility of interference with these DSCS satellites. (Analyses are to be done in accordance with the requirements and procedures of DoD, national, HN, and ITU frequency coordination rules and regulations, as appropriate. If analyses show possible interference, develop mitigation solutions and negotiating positions, to include participation in subsequent correspondence and across-the-table resolution negotiations with technical and regulatory counterparts.)

8.1.8 Serve as a liaison for DISA activities in USG and HN certification of spectrum support matters requiring coordination with the Military Departments and MCEB, as required.

8.1.9 Evaluate and influence new and emerging spectrum-related technologies in order to maximize DoD spectrum utilization and ensure spectrum policies accommodate their uses in order to meet DoD mission requirements.

8.1.10 Provide program management of the overarching framework for the development of future EM spectrum management automation capabilities.

8.1.11 Establish and maintain the capability to perform required electromagnetic compatibility (EMC) analyses and studies, to include SSRAs, to support effective use of spectrum-dependent systems in their intended EM environment.

8.1.12 Develop and maintain a DoD spectrum management architecture, a key component of GIG architecture.

8.1.13 Develop, maintain, and enhance DoD joint standard spectrum management information systems and components, to include DoD spectrum management-related databases and analytical tools and capabilities.

8.2 **Component Acquisition Executive (CAE).** The CAE, in accordance with DISA Instruction 610-225-2 (reference 4.5) and DoDI 5000.02 (reference 4.6), shall ensure EM spectrum compliance issues are addressed during periodic reporting and reviews covering major decisions for the purpose of program,

project, or service initiation; continuation; transformation; fielding; termination; and/or the advancement to the next acquisition phase or procure-ment block.

8.3 **Director, Program Executive Office – Satellite, Teleport, and Services (PEO-STS)**. The Director, PEO-STS, shall:

8.3.1 Obtain spectrum support for commercial and military satellite earth terminals installed through DISA Teleport and Satellite Communications (SATCOM) Program Management Offices and other PEO-STS programs, as required.

8.3.2 Make available information required to complete EM spectrum management data submission requirements to assess and determine spectrum supportability of all commercial fixed and mobile satellite services to the warfighter.

8.4 **Principal Director, GIG Operations (GO)**. The Principal Director, GO, shall:

8.4.1 Create, in the appropriate format, frequency assignment requests for strategic missions based on information provided by the Telecommunications Service Order, in accordance with DISA Circular 310-130-1 (reference 4.7), and for tactical missions based on information provided by the Satellite Access Authorization (SAA).

8.4.2 Support the review and confirmation of DSCS frequency assignments, in accordance with reference 4.4, by accomplishing the following actions:

8.4.2.1 Forwarding requests to SPECTRUM XXI (SXXI) DISA16 job account (JA) for coordination.

8.4.2.2 Creating frequency proposals for frequency requests outside of US&P and sending these proposals to the appropriate combatant command for processing with courtesy copies to SXXI JA DISA16 and JA of the appropriate Military Department FMO.

8.4.2.3 Ensuring maintenance and completeness of GO-submitted frequency records authorized for use in support of DSCS and ensuring the frequency proposals are current and properly recorded in SXXI Frequency Resources Record System (FRRS) and NTIA Government Master File databases, as appropriate.

8.4.3 Complete all DSCS frequency actions, as required by the rules and regulations of the DoD, United States, ITU, and HNs.

8.4.4 Ensure the efficient control of assigned GO-submitted frequencies, using only authorized frequency, bandwidth, power, and other authorized parameters, as stated in FRRS frequency assignment record.

8.4.5 Provide frequency action requirements to DSO, as soon as known, to allow time for coordination and approval actions.

8.4.6 Advise DSO of problems reportedly related to EM spectrum utilization to obtain assistance in resolution.

8.4.7 Report EM interference on SATCOM, in accordance with Joint Task Force - Global Network Operations (JTF-GNO) Commander Critical Information Report (CCIR) requirements.

8.5 **Director, GIG Enterprise Service Engineering (GE).** The Director, GE, shall:

8.5.1 Consider the efficient utilization of EM spectrum in the following:

8.5.1.1 Development of standards for wireless waveform and networking (WWN) technologies, to include dynamic allocation, access, and utilization technologies of EM spectrum, in accordance with DoDI 4630.09 (reference 4.8).

8.5.1.2 Planning, engineering, acquiring, and integrating spectrum-related joint, interoperable, secure, agile, and global net-centric solutions to satisfy the needs of the warfighter.

8.5.2 Coordinate with DSO on EM spectrum policy and utilization guidance under the following condition(s):

8.5.2.1 The initiation of any action for WWN technology standards development impacting EM spectrum.

8.5.2.2 The initiation of any action for the development, procurement, or installation of any equipment, system, or subsystem designed to radiate or receive EM energy.

8.5.2.3 The development of any plans involving changes in EM spectrum requirements within the Defense Information System Network (DISN) and GIG.

8.5.3 Advise DSO of any known problems or changes in EM spectrum utilization, regulatory policy, or procedures in HNs within their areas of responsibility.

8.6 **Commander, White House Communications Agency (WHCA).** For Presidential mission support requirements, the Commander, WHCA, in accordance with reference 4.2, shall:

8.6.1 Ensure planning, engineering, and management requirements associated with EM spectrum are in consonance with the Joint Staff and ASD(NII)/DoD CIO guidance and DoD, national, HN, and international regulations.

8.6.2 Obtain an SSRA and directly coordinate frequency clearances and support with the respective HN embassy.

8.6.3 For requirements within US&P, create frequency requests for strategic and tactical missions, based on information provided by Regional SATCOM Support Center SAAs, as well as user Telecommunication Service Requests and telecommunications Requests for Service, in accordance with WHCA Instruction 3-116, Radio Requirements (reference 4.9).

8.6.4 For frequency requests outside of US&P, provide the following support:

8.6.4.1 Create frequency proposals and send the proposals to the respective HN Embassy Information Management Program or Office for processing.

8.6.4.2 Maintain approved frequency proposals for use as temporary frequency assignments in WHCA SXXI stand-alone database.

8.7 **Principal Directors, Directors, Chiefs, and Commanders of Major DISA Organizational Elements**. These individuals shall:

8.7.1 Inform DSO of EM spectrum policy, management, utilization, and related technical issues to be properly addressed within DISA and for timely introduction into DoD, national, and international forums concerned with EM spectrum-related matters.

8.7.2 Provide support, as requested by DSO, in the development of DISA spectrum management and utilization positions for introduction into appropriate DoD, national, and international forums

concerned with EM spectrum policy, planning, and day-to-day utilization and management.

8.7.3 Monitor projects being planned and implemented to ensure spectrum supportability is addressed and that frequency authorization is obtained within HN(s) where the project product is to be deployed.

8.7.4 Advise DSO of any known problems or changes in frequency utilization regulatory policies or procedures in HNs within their areas of responsibility.

8.7.5 Afford DSO the opportunity to provide EM spectrum policy and utilization guidance before the following actions are taken:

8.7.5.1 Initiation of any actions for development, procurement, or installation of any equipment, system, or subsystem designed to radiate or receive EM energy.

8.7.5.2 Development of any plans involving changes in EM spectrum requirements within DISN and GIG.

8.7.6 Submit, in accordance with U.S. Strategic Command Instruction 714-1 (reference 4.10), a combatant command validated Satellite Access Request to the appropriate Regional SATCOM Support Center or Global SATCOM Support Center and a Gateway Access Request to the appropriate DISA Regional Contingency and Exercise Branch, when requesting Teleport commercial SATCOM and associated DISN services.

8.7.7 Provide current and complete technical performance (parametric) data on DISA procured or developed spectrum-dependent systems to DSO throughout the system life cycle, in accordance with DoDI 4650.01 (enclosure 3, paragraph 4) and MCEB Pub 8 (reference 4.11), as applicable.

FOR THE DIRECTOR:

\\SIGNED//
JOSEPH A. BRENDLER
Colonel, USA
Chief of Staff

1 Enclosure a/s

SUMMARY OF SIGNIFICANT CHANGES. This revision contains updated policy on the management and use of the electromagnetic (EM) spectrum, in accordance with DoDI 4650.01, Policy and Procedures for Management and Use of the Electromagnetic Spectrum and the National Telecommunications and Information Administration (NTIA) Manual of Regulations and Procedures for Federal Radio Frequency Management, as amended; White House Communications Agency (WHCA) Instruction 3-130, Presidential Communications Support Guide; and other spectrum management policy. The procedures for the management and use of EM spectrum, detailed in DoDI 4650.01, are also highlighted. The responsibilities of DISA Chief, Frequency Management Office (FMO), which no longer exist, were replaced with the responsibilities of Director, Defense Spectrum Organization (DSO), for overall direction and coordination within the Agency for matters pertaining to management and use of EM spectrum. The responsibilities of the Component Acquisition Executive (CAE), Program Executive Officer - Satellite, Teleport, and Services (PEO-STS), Principal Director for Global Information Grid (GIG) Operations (GO), Principal Director for GIG Enterprise Services Engineering (GE), and Commander, White House Communications Agency (WHCA), were added. Other organizational responsibilities were updated or deleted, as appropriate. The definitions were updated and an acronym list was added.

_____

*This Circular cancels DISAC 300-100-1, 27 May 1997.
OPR: DSO
DISTRIBUTION: W

Return to:
Top of DISAC 300-100-1
Top of Enclosure 1
DISA Publications Listing
DISA Home Page

Enclosure 1: DISAC 300-100-1

DEFINITIONS AND GLOSSARY OF TERMS

Certification of Spectrum Support. Certification by the National Telecommunications and Information Administration (NTIA) that a candidate system conforms to the United States and its possessions (US&P) spectrum allocation scheme. Requirements for obtaining spectrum support for new telecommunications systems or major modifications of an existing system are found in chapter 10 of NTIA Manual of Regulations and Procedures for Federal Radio Frequency Management.[1] Some host nations have similar certification but requirements vary.

Electromagnetic Compatibility (EMC). The ability of systems, equipment, and devices that utilize the electromagnetic (EM) spectrum to operate in their intended operational environments without suffering unacceptable degradation or causing unintentional degradation because of EM radiation or response. It involves the application of sound EM spectrum management; system, equipment, and device design configuration that ensures interference-free operation; and clear concepts and doctrines that maximize operational effectiveness.

Electromagnetic (EM) Interference. Any EM disturbance that interrupts, obstructs, or otherwise degrades or limits the effective performance of telecommunications equipment being operated in compliance with applicable rules and regulations. It can be induced intentionally, as in some forms of electronic warfare, or unintentionally, as a result of spurious emitter emissions, poor receiver selectivity, intermodulation products, improperly coordinated frequency assignments, or a combination of these and other factors.

Electromagnetic (EM) Spectrum. In accordance with Joint Publication 1-02,[2] the range of frequencies of EM radiation from zero to infinity. For the purposes of this Circular, the "electromagnetic spectrum" is defined as the range of frequencies of EM radiation that has been allocated for specified services under the United States and international

---

[1] National Telecommunications and Information Administration, Manual of Regulations and Procedures for Federal Radio Frequency Management, as amended.

[2] Joint Publication 1-02, Department of Defense Dictionary of Military and Associated Terms, as amended.

tables of frequency allocation,[3] together with the EM spectrum outside the allocated frequency range where use of unallocated frequencies could cause harmful interference with the operation of any services within the allocated frequency range. The terms "electromagnetic spectrum," "radio frequency spectrum," and "spectrum" shall be synonymous.

Federal Communications Commission (FCC). An independent United States Government (USG) agency established by the Communications Act of 1934. It is charged with regulating interstate and international communications by radio, television, wire, satellite, and cable. The jurisdiction of FCC covers the fifty states, the District of Columbia, and the United States and its Possessions (US&P).

Frequency Allocation. The designation of a given segment of the EM spectrum for specific use by one or more radio communication services, or noncommunications uses, under specified conditions. Radio astronomy, industrial, scientific, medical, etc., are in the noncommunications category.

Frequency Assignment. The authorization given by an administration for a radio frequency transmitter or receiver to use a specific radio frequency or radio frequency channel, under specified conditions (e.g., geographical location or area, radiated power, antenna directivity, bandwidth, modulation technique, and other operational parameters).

Frequency Panel (FP). One of the several panels which supports the Military Communications-Electronics Board (MCEB). The Panel consists of a member from each interested Service or Agency which has representation on MCEB, plus observers from selected agencies. Historically, membership has included representatives from the Army, Navy, Air Force, Marine Corps, Coast Guard, Defense Information Systems Agency (DISA), National Security Agency (NSA), Office of the Assistant Secretary of Defense for Networks and Information Integration (OASD(NII)), and Joint Staff (J65A) on behalf of the Joint Staff and combatant commands. Its mission is to review, develop, and coordinate studies, reports, and Department of Defense (DoD) positions for consideration by MCEB in the areas of radio wave propagation, EM compatibility, as well as engineering and management associated with EM spectrum. It is supported by several permanent working groups.

---

[3] Manual of Regulations and Procedures for Federal Radio Frequency Management, *op cit*.

Host Nation (HN). A nation that receives the forces and/or supplies of allied nations, coalition partners, and/or North Atlantic Treaty Organization (NATO) organizations to be located on, to operate in, or to transit through its territory.

Interdepartment Radio Advisory Committee (IRAC). An advisory committee to the National Telecommunications and Information Administration (NTIA), within the Department of Commerce. Committee members include representatives of 19 Federal departments/agencies, including the three Military Departments. Its basic functions are to assist in assigning frequencies to United States Government (USG) radio stations and in developing and executing policies, programs, procedures, and technical criteria pertaining to the allocation, management, and use of EM spectrum for USG users. These actions are recommendations, subject to NTIA approval.

Job Account (JA). A construct within SPECTRUM XXI (SXXI) software for identifying a single Job. Each JA consists of a Job Name, a Job Password, and an optional Default Oracle Server Account Name. The JAs determine Edit Authority for frequency proposals. The JAs are unique within the entire SXXI network; for example, DISA16 is a JA Name for frequency proposal, primarily for satellites, specific to DISA.

Military Communications-Electronics Board (MCEB). In accordance with DoD Directive 5100.35,[4] a chartered flag rank organization, whose mission is to (1) obtain coordination on military communications-electronics (C-E) matters among DoD Components, between DoD and other governmental departments and agencies, and between DoD and representatives of foreign nations; (2) provide guidance and direction to DoD Components; and (3) furnish advice and assistance, as requested, on military C-E matters to the Secretary of Defense, the Joint Chiefs of Staff, Military Departments, and other DoD Components. There are three levels within MCEB structure: the Principals (an O-9 level forum), the Deputies (an O-7/O-8 level forum), and the Coordinators (an O-6 level forum). The MCEB is supported by several panels, one of which is the Frequency Panel (FP).

[4] DoD Directive 5100.35, Military Communications-Electronics Board (MCEB), 10 March 1998.

National Telecommunications and Information Administration (NTIA). As an operating unit of the Department of Commerce, it serves as the President's principal advisor on U.S. telecommunications policies. Its Office of Spectrum Management has the responsibility for radio frequency utilization by USG stations. This includes the establishment of policies concerning radio spectrum allocation and use, the assignment of frequencies consistent with these policies, and guidance to ensure the conduct of U.S. telecommunications activities is consistent with these policies. The NTIA is supported by the Interdepartment Radio Advisory Committee (IRAC).

Request For Service (RFS). The document, used to initially request telecommunications service, which is submitted by the requester of the service to their designated Telecommunications Certification Office (TCO).

Spectrum-Dependent Systems. All electronic systems, subsystems, devices, and/or equipment that depend on the use of EM spectrum to properly accomplish their function(s) without regard to how they were acquired (full acquisition, rapid acquisition, Joint Concept Technology Demonstration, etc.) or procured (commercial off-the-shelf, government off-the-shelf, nondevelopmental items, etc).

Spectrum Management. The planning, coordinating, and managing of the joint use of EM spectrum through operational, engineering, and administrative procedures. The objective of spectrum management is to enable electronic systems to perform their functions in the intended environment without causing or suffering unacceptable interference.

Spectrum Supportability. In accordance with the Chairman of the Joint Chiefs of Staff Instruction (CJCSI) 6210.01E[5], the determination as to whether EM spectrum necessary to support the operation of spectrum-dependent equipment or system during its expected life cycle is, or will be, available (that is, from system development, through developmental and operational testing, to actual operation in the electromagnetic environment). The assessment of equipment or system as having "spectrum supportability" is based upon, as a minimum, receipt

[5] CJCSI 6212.01E, Interoperability and Supportability of Information Technology and National Security Systems, 15 December 2008.

of equipment spectrum certification, reasonable assurance of the availability of sufficient frequencies for operation, and consideration of electromagnetic capability (EMC).

Spectrum Supportability Risk Assessment (SSRA). Risk assessment performed by DoD Components for all spectrum-dependent systems to identify risks as early as possible and affect design and procurement decisions. These risks are reviewed at acquisition milestones and are managed throughout the systems lifecycle.

SPECTRUM XXI (SXXI). A client/server software system, interconnected through a wide area network, that provides frequency managers with a single information system that addresses DoD and U.S. Federal Agencies spectrum management automation requirements.

Telecommunications Certification Office (TCO). The activity designated by a Federal department or agency to certify to DISA (as an operating agency of the National Communications System) that a specified telecommunications service or facility is a validated, coordinated, and approved requirement of the department or agency and that the department or agency is prepared to pay mutually acceptable costs involved in the fulfillment of the requirement.

Telecommunications Service Request (TSR). A valid, approved, and funded telecommunications requirement prepared in accordance with the format in chapter C3 of DISA Circular 310-130-1,[6] and submitted to DISA or DISA activities for fulfillment. A TSR may not be issued except by a specifically authorized TCO.

AFFMA	Air Force Frequency Management Agency
ASD(NII)	Assistant Secretary of Defense for Networks and Information Integration
ASMD	Army Spectrum Management Directorate
ASMO	Army Spectrum Management Office
CAE	Component Acquisition Executive
CCIR	Commander Critical Information Report
DISA	Defense Information Systems Agency
DISN	Defense Information System Network
DoD	Department of Defense
DoDI	Department of Defense Instruction

[6] DISA Circular 310-130-1, Submission of Telecommunications Service Requests, 4 April 2000.

DoD CIO	Department of Defense Chief Information Officer
DSCS	Defense Satellite Communications System
DSO	Defense Spectrum Organization
ESG PWG	Equipment Spectrum Guidance Permanent Working Group
EM	electromagnetic
EMC	electromagnetic compatibility
FCC	Federal Communications Commission
FMO	Frequency Management Office
FP	Frequency Panel
FRRS	Frequency Resource Record System
GE	GIG Enterprise Service Engineering
GIG	Global Information Grid
GO	GIG Operations
HQDA/CIO/G6	Headquarters, Department of the Army Chief Information Office/G6
HN	host nation
IEEE	Institute of Electrical and Electronics Engineers
IRAC	Interdepartment Radio Advisory Committee
ITU	International Telecommunication Union
JA	job account
JTF-GNO	Joint Task Force - Global Network Operations
MCEB	Military Communications-Electronics Board
MOA	Memorandum of Agreement
OASD(NII)	Office of Assistant Secretary of Defense for Networks and Information Integration
NMSC	Navy and Marine Corps Spectrum Center
NTIA	National Telecommunications and Information Administration
PEO-STS	Program Executive Office – Satellite, Teleport and Services
SAA	Satellite Access Authorization
SATCOM	Satellite Communications

SPS	Spectrum Planning Subcommittee
SSRA	spectrum supportability risk assessment
SSRF	Standard Spectrum Resource Format
SXXI	SPECTRUM XXI
USG	United States Government
US&P	United States and its Possessions
WHCA	White House Communications Agency
WWN	Wireless Waveform and Networking

Return to:
Top of DISAC 300-100-1
Top of Enclosure 1
DISA Publications Listing
DISA Home Page
