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# CHAIRMAN OF THE JOINT

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# INSTRUCTION

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DISTRIBUTION: A, B, C

CJCSI 3210.04B  
16 December 2022

## JOINT ELECTROMAGNETIC WARFARE REPROGRAMMING POLICY

### References:

See Enclosure B

1. Purpose. This instruction updates joint electromagnetic warfare (EW) reprogramming policy, definitions, and responsibilities within the Department of Defense (DoD). This instruction augments policy and guidance provided in reference a.
2. Cancellation/Superseded. Chairman of the Joint Chiefs of Staff Instruction (CJCSI) 3210.04, 10 February 2011 (current as of 14 April 2014), is hereby superseded.
3. Applicability. This instruction applies to the Joint Staff, Services, Combatant Commands (CCMDs), U.S. elements of combined commands, DoD agencies, and joint activities.
4. Policy. To enable joint force commanders' ability to attain electromagnetic spectrum superiority, it is CJCS policy to:
  - a. Provide operational commanders with a timely capability to reconfigure EW and Target Sensing Systems (TSS) in response to changing threat environments.
  - b. Ensure that changes in operational modes and/or parameters of U.S. and friendly-foreign EW systems are incorporated as part of a comprehensive plan for information support to the EW reprogramming process.
  - c. Conduct EW reprogramming to maintain or enhance the effectiveness of EW and TSS equipment in complex electromagnetic operational environments.

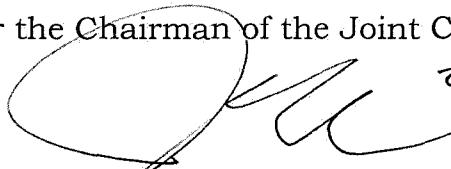
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5. Definitions. See Glossary.
6. Responsibilities. See Enclosure A.
7. Summary of Changes. This instruction focuses on policy and responsibilities and removes procedural and doctrinal guidance captured in references b and c.
8. Releasability. UNRESTRICTED. This directive is approved for public release; distribution is unlimited on NIPRNET. DoD Components (to include the CCMDs), other Federal agencies, and the public, may obtain copies of this directive through the Internet from the CJCS Directives Electronic Library at <<http://www.jcs.mil/library>>. Joint Staff activities may also obtain access via the SIPR directives Electronic Library websites.
9. Effective Date. This INSTRUCTION is effective upon receipt.

For the Chairman of the Joint Chiefs of Staff:



21 Dec 22

JAMES J. MINGUS, LTG, USA  
Director, Joint Staff

Enclosures:

A – Responsibilities  
B – References  
GL – Glossary

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## ENCLOSURE A

### RESPONSIBILITIES

#### 1. CJCS Responsibilities

- a. Establish joint EW reprogramming policy, doctrine, and tactics, techniques, and procedures (TTPs).
- b. Coordinate with and assist the National Security Agency (NSA)/Chief, Central Security Service (CSS), Defense Intelligence Agency (DIA), Combatant Commanders (CCDRs), and Services in developing joint procedures to collect, distribute, and exchange information relevant to conducting EW reprogramming operations.
- c. Monitor and assist CCDR actions to establish capabilities and procedures to integrate and fuse all-source intelligence data for threat change identification.
- d. Coordinate with NSA/CSS, DIA, and the Services to assist in their actions to develop and implement the use of tactical, theater, and national collectors to identify adversary threat change capabilities.
- e. Assist the CCDRs and Services in exercising the EW reprogramming process. Annually, designate a CCMD or joint task force exercise, on a rotating basis among the CCDRs, to exercise joint coordination of EW reprogramming.
- f. Coordinate with and assist DIA and the Services to ensure adequate capability at the Service production centers (SPCs) and theater intelligence production centers (IPCs) to assess all threat change capabilities. Peacetime intelligence and reprogramming efforts prevent the occurrence of threat system changes in wartime from becoming an overwhelming surprise to operational forces.
- g. Coordinate with the Services to ensure adequate support for the reporting of U.S. system data (blue data) and commercial system data (white data) within the merged Electromagnetic Warfare Integrated Reprogramming Database (EWIRDB) product.

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## 2. Director, NSA/Chief, Central Security Service

- a. Provide signals intelligence (SIGINT) data required by the IPCs, SPCs, and DIA, consistent with priorities, to assist identification of electromagnetic threat changes and wartime reserve mode (WARM) identification.
- b. Interface with IPCs, DIA, and the SPCs to support analysis of adversary threat changes. On recognizing a change in the signal parameters of a threat weapon system, issue timely changes to national signal identification guidance.
- c. Develop collection, analysis, and reporting guidance required to address intelligence requirements for detecting, identifying, and disseminating SIGINT data from weapon sensor systems suspected of threat change or WARM operations.
- d. In coordination with the Joint Staff, DIA, and Services, establish procedures for the review and determination of classified reprogramming data releasability to allies and coalition partners.

## 3. Director, Defense Intelligence Agency

- a. Establish procedures to interface with IPCs and SPCs to support analysis of adversary threat changes.
- b. Establish DoD intelligence policy, coordination, resources, support procedures, and guidelines for intelligence support to EW reprogramming.
- c. Monitor and assist unified command actions to establish capabilities and procedures to integrate and fuse all-source intelligence data for threat change identification.
- d. Review reprogramming message criteria and procedures to ensure commonality/conformity in approaches to the joint reprogramming process. Items to be reviewed will include collection requirements and dissemination of validated threat-change information to appropriate theater and Service EW reprogramming organizations.
- e. Coordinate and oversee the interface among the IPCs, NSA/CSS, SPCs, and Service reprogramming centers (SRCs) on matters tasked in support of the reprogramming process or on matters impacting the quality of the merged EWIRDB product.

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f. Coordinate with the Services and CCMDs to determine the prioritization of threat change and WARM identification collection requirements, and focus collection efforts on those requirements identified as addressing the highest priority intelligence gaps.

g. Coordinate intelligence support to joint EW reprogramming exercises.

## 4. Combatant Commanders

- a. Ensure components comply with the standardized threat change validation procedures.
- b. In coordination with Service components, integrate and fuse all-source intelligence data on electromagnetic threat changes, including WARM.
- c. Implement standardized reprogramming message dissemination procedures among theater intelligence support organizations and Service components.
- d. Establish prioritized theater intelligence collection requirements for adversary threat change capabilities (to include WARM) identification in cooperation with the Services, DIA, and NSA/CSS.
- e. Develop and maintain a theater-wide address list for disseminating reprogramming messages to the Service components and other subordinate organizations.

Note: The above tasks (4.a. through 4.e.) are normally accomplished by the theater joint intelligence center or joint analysis center, in coordination with the Command Electromagnetic Warfare Officer or Joint Electromagnetic Spectrum Operations Cell.

## 5. Commander, U.S. Strategic Command. Perform the U.S. Electromagnetic Systems (USELMS) management and coordination function for the Joint Staff.

## 6. Service Chiefs

- a. Develop and implement threat data collection procedures to provide essential intelligence data on electromagnetic threat changes.
- b. Develop, establish, and exercise procedures to electronically exchange information among the Services to support rapid EW reprogramming, operations, and tactics changes.

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- c. In conjunction with DIA, ensure adequate resources are available at the SPCs to produce and maintain a fully DoD-sanctioned EWIRDB and provide corresponding support to the EW reprogramming process.
- d. Develop procedures to provide unified command IPCs and other Service components with electromagnetic threat change data collected by tactical/theater collectors in a timely manner.
- e. Develop policy and procedures to regularly exercise EW reprogramming.
- f. Ensure adequate resources are available, in accordance with reference a, to produce and maintain U.S. system data (blue data) for inclusion in the USELMS Database for subsequent extraction into the merged EWIRDB product. Services must identify data that can be released to FVEY, NATO, and other partners.

## 7. Service Production Centers

- a. Manage production of requirements within EWIRDB and maintain a fully DoD-sanctioned EWIRDB in conjunction with CJCS, NSA, DIA, and the Services. Ensure EWIRDB data is marked for release/distribution to NATO, FVEY, and other foreign partners whenever appropriate.
- b. Establish detailed reprogramming procedures and perform their function in accordance with the criteria established in appropriate Service publications.
- c. Establish capabilities and procedures to:
  - (1) Identify, reduce, and/or resolve signal ambiguities.
  - (2) Expeditiously communicate signal ambiguity information to EW system end users.
- d. Ensure adequate resources are available to provide technical intelligence support during joint- and Service-specific EW reprogramming exercises and contingencies.
- e. Establish procedures to support analysis of adversary threat changes, to include 24-hour coverage when tasked by a CCDR.
- f. Produce assessments of the total capabilities of threat systems, including WARM parameters, and provide these assessments in the EWIRDB.

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- g. Support joint reprogramming exercises.
- h. Provide technical resolution and confirmation as requested by the Services in support of the joint intelligence function of the EW reprogramming process.
- i. Provide technical intelligence analysis, as requested by the SRC, in support of developing an operational response to a confirmed threat change.
- j. Immediately inform the Joint Staff, U.S. Strategic Command, Services, and DIA of shortfalls in resources necessary to produce a complete, accurate, and consistent EWIRDB product.
- k. Maintain current message and e-mail address lists for disseminating reprogramming message traffic.
- l. Expeditiously disseminate reprogramming messages to Service components and affected CCMDs.

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## ENCLOSURE B

### PART I – REFERENCES

- a. CJCSI 3320.01 Series, “Joint Electromagnetic Spectrum Operations (JEMSO)”
- b. CJCSM 3320.01 Series, “Electronic Warfare in Support of Joint Electromagnetic Spectrum Operations”
- c. JP 3-85, 22 May 2020, “Joint Electromagnetic Spectrum Operations”

### PART II – RELATED

1. Army Regulation 525-15, “Software Reprogramming for Cyber Electromagnetic Activities”
2. DAFMAN 10-703, “Electromagnetic Warfare Integrated Reprogramming”
3. MCIP 3-40.04, “MAGTF Electromagnetic Spectrum Operations”
4. OPNAVINST 3430.23D, “Navy Electronic Warfare Reprogrammable Systems Support Program”

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## GLOSSARY

### PART I – ABBREVIATIONS AND ACRONYMS

CCDR	Combatant Commander
CCMD	Combatant Command
CJCS	Chairman of the Joint Chiefs of Staff
CSS	Central Security Service
DIA	Defense Intelligence Agency
DoD	Department of Defense
ELINT	electronic intelligence
EW	electromagnetic warfare
EWIRDB	Electromagnetic Warfare Integrated Reprogramming Database
IPC	intelligence production center
MSIC	Missile and Space Intelligence Center
NSA/CSS	National Security Agency/Central Security Service
SIGINT	signals intelligence
SIPRNET	secure internet protocol router network
SPC	Service production center
SRC	Service Electronic Warfare Reprogramming Center
TSS	target sensing systems
TPP	tactics, techniques, and procedures
USELMS	U.S. electromagnetic systems
USSTRATCOM	U.S. Strategic Command
WARM	wartime reserve mode

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## PART II – TERMS AND DEFINITIONS

Electromagnetic Warfare Integrated Reprogramming Database – The Electromagnetic Warfare Integrated Reprogramming Database (EWIRDB) is a Defense Intelligence Agency-managed database. As technical manager, the National Air and Space Intelligence Center merges, maintains, and distributes the EWIRDB. The Missile and Space Intelligence Center functions as the EWIRDB Program Management Office. The EWIRDB is the primary Department of Defense-approved source for technical parametric and performance data on non-communications emitters and associated systems. It directly supports EW reprogramming by all U.S. Military Services. The EWIRDB combines assessed, all-source intelligence data from the Service Production Centers on foreign systems with observed electronic intelligence (ELINT) (Observed ELINT Module) data from the National Security Agency on foreign emitters. Additionally, engineering-value/measured data on U.S. emitters (gathered data), provided by the Services to the 57th Intelligence Squadron, is included and the EWIRDB incorporates emitter, antenna, receiver, weapon, and platform, as well as electro-optical/infra-red data.

electromagnetic warfare reprogramming – The deliberate alteration or modification of electromagnetic warfare or target sensing systems, or the tactics and procedures that employ them, in response to validated changes in equipment, tactics, or the electromagnetic environment (JP 3-85).

Service electromagnetic warfare reprogramming center – Service electromagnetic warfare reprogramming centers help fulfill individual Service responsibilities to identify electromagnetic warfare (EW) system deficiencies, determine operational responses, and develop EW reprogramming changes, settings, and tactics to counter changes in threat systems.

Service production center – Service production centers (SPCs) are responsible for updating and maintaining assigned emitters in the Electromagnetic Warfare Integrated Reprogramming Database (EWIRDB). Emitter assignments are primarily based on their areas of expertise. SPCs provide system-specific technical information to the theater intelligence centers and the SRCs. The Missile and Space Intelligence Center (MSIC) is the overall manager of the EWIRDB as a component of the Defense Intelligence Agency and is also a scientific and technical intelligence center. For the purpose of supporting the EW reprogramming process, the MSIC is tasked as an SPC.

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wartime reserve mode – Characteristics and operating procedures of sensor, communications, navigation aids, threat recognition, weapons, and countermeasures systems that will contribute to military effectiveness if unknown to, or misunderstood by, opposing commanders before they are used but could be exploited or neutralized if known in advance (JP 3-85).