



NETCOM

NETWORK ENTERPRISE TECHNOLOGY COMMAND



National MARS Operations
Army MARS 10/2024



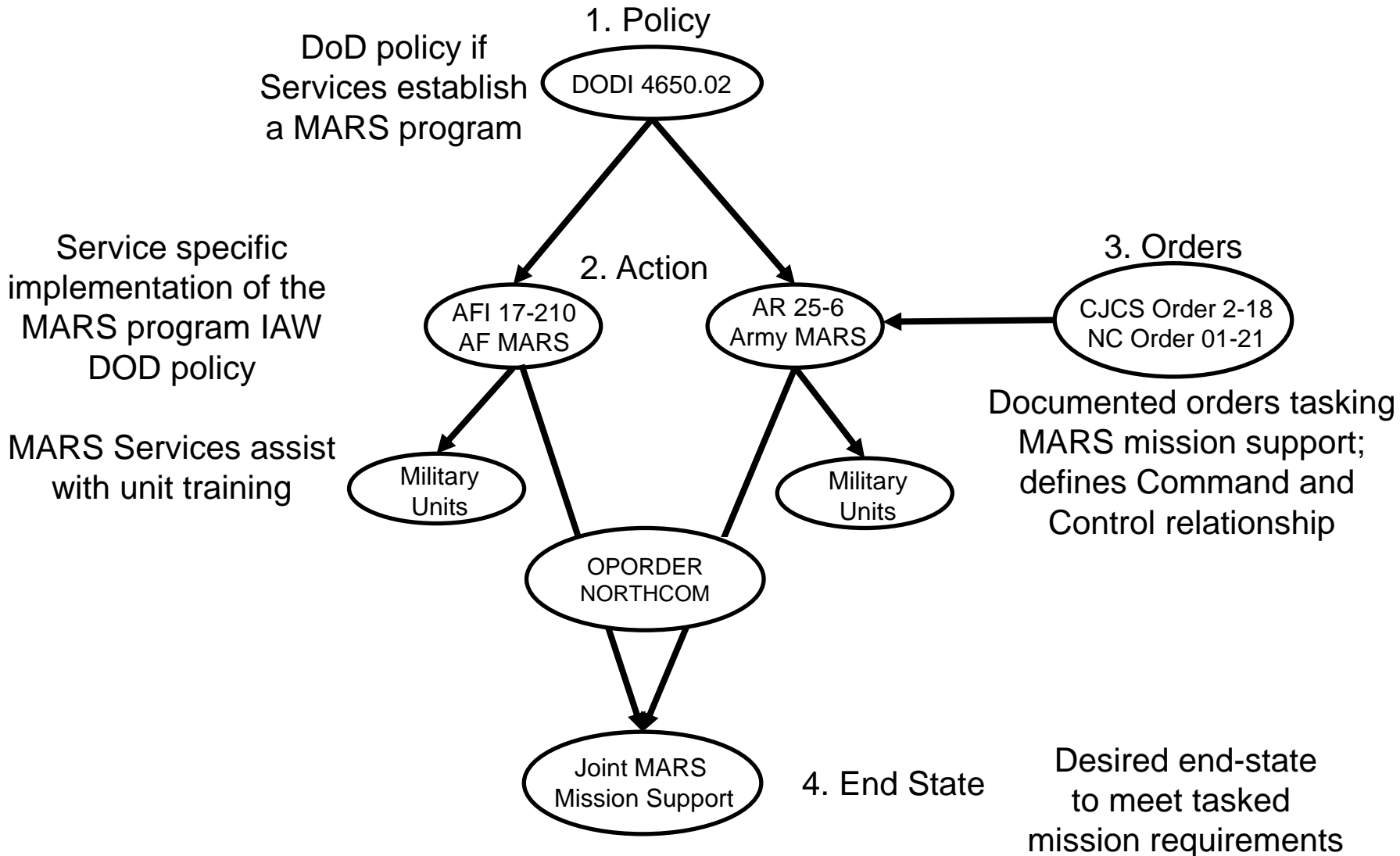
Agenda

Agenda:

1. Mission and Authority
2. MARS Activation
3. MARS Customers (COCOM)
4. MARS Traffic Nets
5. Title 10 vs Title 32
6. Summary



MARS Authorities and Missions





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MARS Authorities and Missions



DODI 4650.02

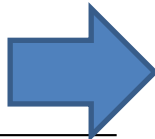
AR 25-6
Army MARS

Joint MARS
Mission Support

Army Regulation 25-6

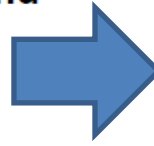


DoD INSTRUCTION 4650.02
MILITARY AUXILIARY RADIO SYSTEM



Information Management

**Military
Auxiliary
Radio
System and
Amateur
Radio
Program**



THIS IS ARMY MARS

January 2021

AM 1

Originating Component: Office of the DoD Chief Information Officer

Effective: December 20, 2021

Releasability: Cleared for public release. Available on the Directives Division Website at <https://www.esd.whs.mil/DD/>.

Reissues and Cancels: DoD Instruction 4650.02, "Military Auxiliary Radio System (MARS)," December 23, 2009

Approved by: Dr. Kelly E. Fletcher, Performing the Duties of DoD Chief Information Officer

Purpose: In accordance with the authority in DoD Directive (DoDD) 5144.02, this issuance:

- Establishes policy, assigns responsibilities, and provides procedures for the Military Auxiliary Radio System (MARS).
- Establishes MARS organization, membership, and functions.

DISTRIBUTION RESTRICTION: Approved for public release. Distribution is unlimited.

DEPARTMENT OF THE ARMY
MILITARY AUXILIARY RADIO SYSTEM
FORT HUACHUCA ARIZONA 85613-7070

Headquarters
Department of the Army
Washington, DC
9 October 2019

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MARS Authorities and Missions



DODI 4650.02

1.2. POLICY.

a. MARS capability provides high frequency (HF) radio communications support to DoD through the use of Federal Communications Commission (FCC) licensed, volunteer radio operators, **as directed by the Services and coordinated within the DoD.**

b. MARS provides:

(1) Infrastructure-independent, HF radio communications support as requested by DoD.

(2) **HF radio communications support to civil authorities as directed by, or coordinated with, the United States Northern Command and United States Indo-Pacific Command**, and in accordance with DoDD 5111.13 and **DoDD 3025.18.**

(3) Global HF radio communications to support Combatant Commands' Humanitarian Assistance and Disaster Relief Operations.

(4) Radio interface to telephone communications as a backup to the HF Global Communications System for DoD air crews, ground forces, and sea forces providing support for emergency situations, conducting official business, and morale calls.



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- (5) The Services' primary interface with amateur radio operators and coordination with the amateur radio community in the United States.
- (6) Support to the Defense mission critical infrastructure in accordance with DoD Instruction (DoDI) 3020.45.
- (7) Support to DoD contingency communications in accordance with Chairman Joint Chiefs of Staff Instruction 3410.03.
- (8) Support to the Defense Continuity of Operations Program in accordance with DoDD 3020.26.



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MARS Authorities and Missions



AR 25-6
Army MARS

Army Regulation 25-6 (Oct 2019) and Air Force Instruction 17-210 (June 2019):

- Service specific policy, guidance, and regulatory requirements for implementing the Service MARS program
- defines each MARS Service mission, duties, responsibilities
- provides MARS membership requirements, do's and don'ts
- authorizes MARS programs to support military unit training



Activation



Trigger events for activation:

- 1) direction from higher authority / headquarters is received; OR
- 2) a nation-wide emergency or crisis condition exists throughout the United States AND telecommunications services throughout the United States are impaired to the point that communications within the military and federal agencies is limited, or the effectiveness of the telecommunication services that provide the information channel between the government and it's citizens is no longer visible.
- 3) when the conditions described above appear imminent.

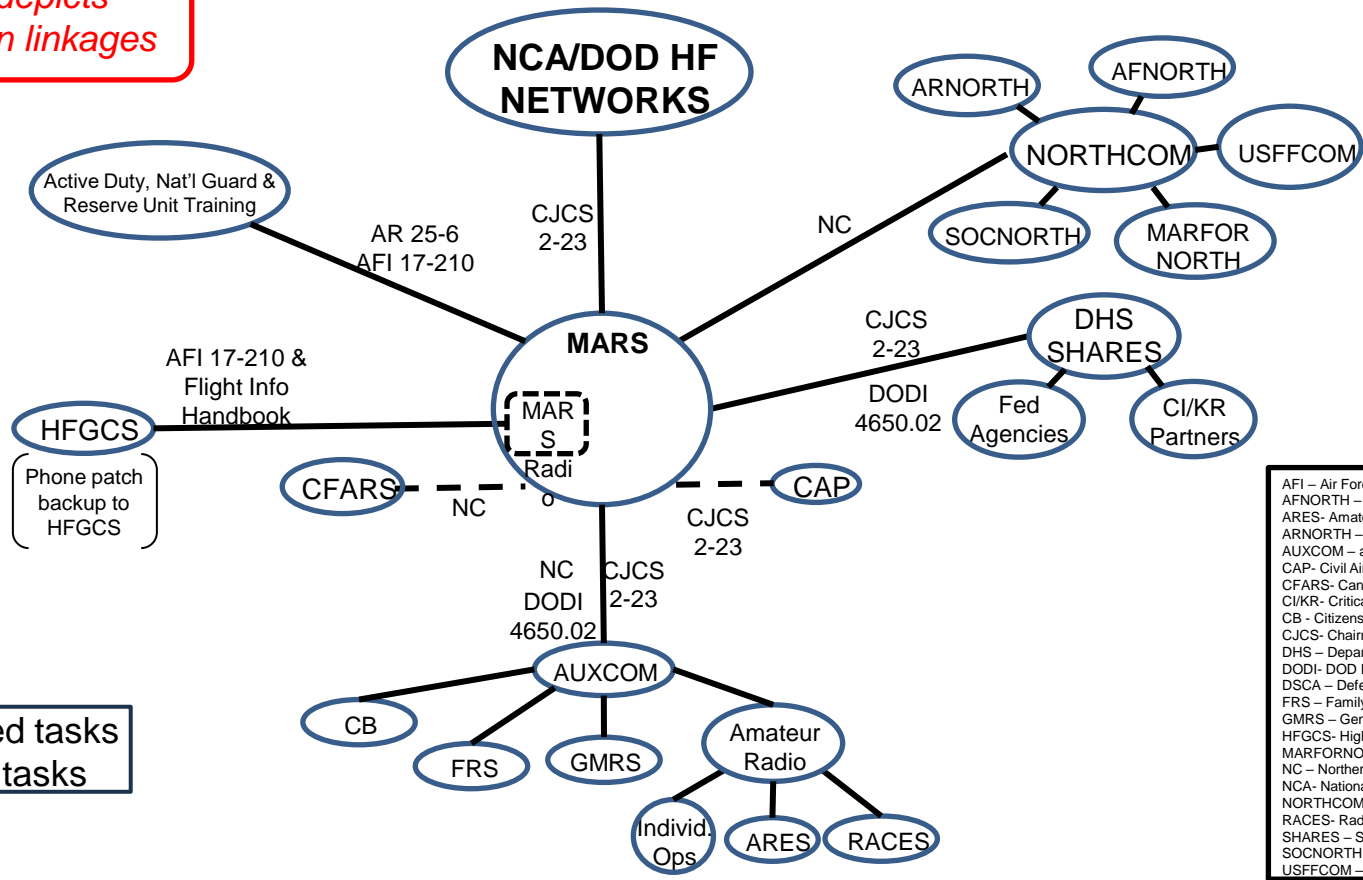
MARS does not trigger when normal tele-communications services are in place and functioning as intended.



Global HF Enterprise Network Mission Authorities

at a glance

This chart depicts MARS mission linkages



— Specified tasks
- - Implied tasks

- AFI – Air Force Instruction
- AFNORTH – Air Forces North
- ARES- Amateur Radio Emergency Service
- ARNORTH – Army North
- AUXCOM – auxiliary communications
- CAP- Civil Air Patrol
- CFARS- Canadian Force Auxiliary Radio System
- CI/KR- Critical Infrastructure/Key Resource
- CB - Citizens Band
- CJCS- Chairman Joint Chiefs of Staff
- DHS – Department of Homeland Security
- DODI- DOD Instruction
- DSCA – Defense Support to Civil Authorities
- FRS – Family Radio Service
- GMRS – General Mobile Radio Service
- HFGCS- High Frequency Global Communication System
- MARFORNORTH – Marine Forces North
- NC – Northern Command
- NCA- National Command Authorities
- NORTHCOM – US Northern Command
- RACES- Radio Amateur Communication Emergency Service
- SHARES – SHARed RESources
- SOCNORTH – Special Operations Command North
- USFFCOM – US Fleet Forces Command

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MARS is a *Force Multiplier* for gathering information needed by Customers. Auxiliaries licensed to operate in other venues, e.g., AUXCOM elements or SHARES, can extend their information “sourcing reach” by contacting stations in these venues.

Together We Are ... The Voice of Our Army

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What mixing Mars station check over

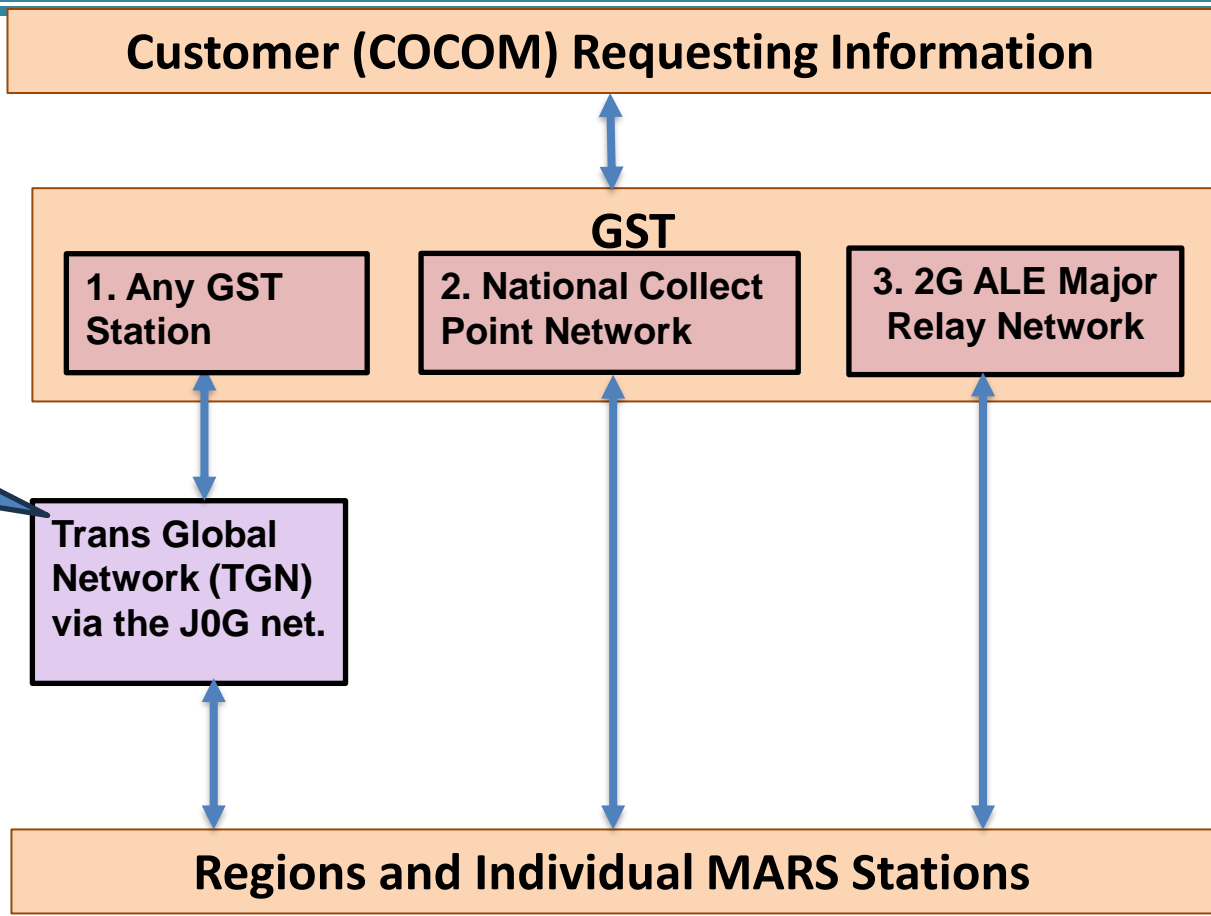


What makes MARS Communications Different from FCC Regulated Communications:

- HF exclusively,
- stations are considered government stations,
- voice and digital modes,
- type 3 encryption on digital traffic.
- send data and voice on the same frequency,
- self activating,
- 2G automatic link establishment (ALE) used for message centers,
- no deployment,
- Software provided by MARS,
- the 10m FEMA circuits are used as a conduit between government stations and the amateur community.



Army MARS Traffic System Explained





How Does MARS Provide DSCA?



Title 10 vs Title 32, It's all about State Rights

Simply put,

- Title 10 is Department of Defense funding and responsibility.
- Title 32 is civil authority is operated by the governor of the state.
- Although the National Guard is Title 32 we can assist them in training and support as they can be federalized by the president at any time.
- For Title 10 to assist civil authorities, a request from the governor of the state must be presented to NORTHCOM.
- The assistance is limited in scope to 72 hours, and must only provide assistance to the civil authorities.



Department of Defense DIRECTIVE

NUMBER 3025.18

December 29, 2010

Incorporating Change 2, March 19, 2018

USD(P)

SUBJECT: Defense Support of Civil Authorities (DSCA)

References: See Enclosure 1

1. PURPOSE. This Directive:

- a. Establishes policy and assigns responsibilities for DSCA.
- b. Incorporates and cancels DoD Directive (DoDD) 3025.1 and DoDD 3025.15 (References (a) and (b)).
- c. Provides guidance for implementing the regulations (in DoD Instruction (DoDI) 3025.21 (Reference (c))) required by section 275 of title 10, United States Code (U.S.C.), (Reference (d)) regarding military support of civilian law enforcement.
- d. Provides guidance for the execution and oversight of DSCA when requested by civil authorities or by qualifying entities and approved by the appropriate DoD official, or as directed by the President, within the United States, including the District of Columbia, the Commonwealth of Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, and any territory or possession of the United States or any political subdivision thereof.
- e. Authorizes immediate response authority for providing DSCA, when requested.
- f. Authorizes emergency authority for the use of military force, under dire circumstances, as described in paragraph 4.k. above the signature of this Directive.
- g. Incorporates the Deputy Secretary of Defense Memorandum (Reference (e)), which is hereby cancelled.



How Does MARS Provide DSCA?



Title 10 vs Title 32, How does this effect me?

1. 4650.02 specifies that MARS will provide HF radio communications support to civil authorities (Title 32) as **directed by, or coordinated with**, the United States Northern Command and United States Indo-Pacific Command, in accordance with DoDD 3025.18.
2. 3025.18 requires FEMA Regions/States to request defense support through the NORTHCOM Defense Coordinating Element. Requests are for limited time and scope.
3. State National Guard requests MARS support through Service channels...MARS is supporting the National Guard and not supporting civilian entities (not DSCA by definition).
 - There is a difference between National Guard, US Code Title 32, vs State Militia (DSCA controlled by governor)



NETCOM HF Support and MARS

Mission

- NETCOM HF facilities support military HF training and contingency missions globally

Huachuca (GOCO)

RRMC (GOGO)

Schofield (GOGO)

Okinawa (GOLNO) gov owned local national operated

- MARS provides contingency HF communications in support of DOD and Service communication requirements using FCC licensed civilian volunteers.

Agreements and Capabilities

- NETCOM-JITC MOU – Equipment certification testing; pending update to incl JTNC/JITC Team Awareness Kit and Link 11/22 live support
- Pending State Department MOU for training support
- NETCOM G3 ATSO maintains pool of US&P and Okinawa HF channels
- Single channel analog/digital voice
- 2G and 3G automatic link establishment
- TacChat, TacChat IP, and file transfer digital protocols

Authorities

- CJCS Order 2-18 (S) “worst day scenario”
- NORTHCOM Order 1-21 “Defense Support to Civil Authorities”
- DODI 4650.02 “MARS”
- AR 25-6 “MARS and Amateur Radio”
- AR 25-13 “Army Telecom Capabilities”
- AR 5-12 “Army Use of Electromagnetic Spectrum”
- NETCOM annual HF support order

Typical Training Calendar

- Monthly HF Tech Assistance Labs
- Quarterly DOD COMEX ~Feb, May, Jul, Oct
- Low Power HF competition ~Mar
- DOD HF Skills Challenge ~Jul
- Canadian Int’l HF competition ~ Oct
- Joint Staff Bold Quest ~Sep



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Military Standard 188-110D requirement...let's break this down:

“Military Standard Interoperability and Performance Standard for Data Modems”

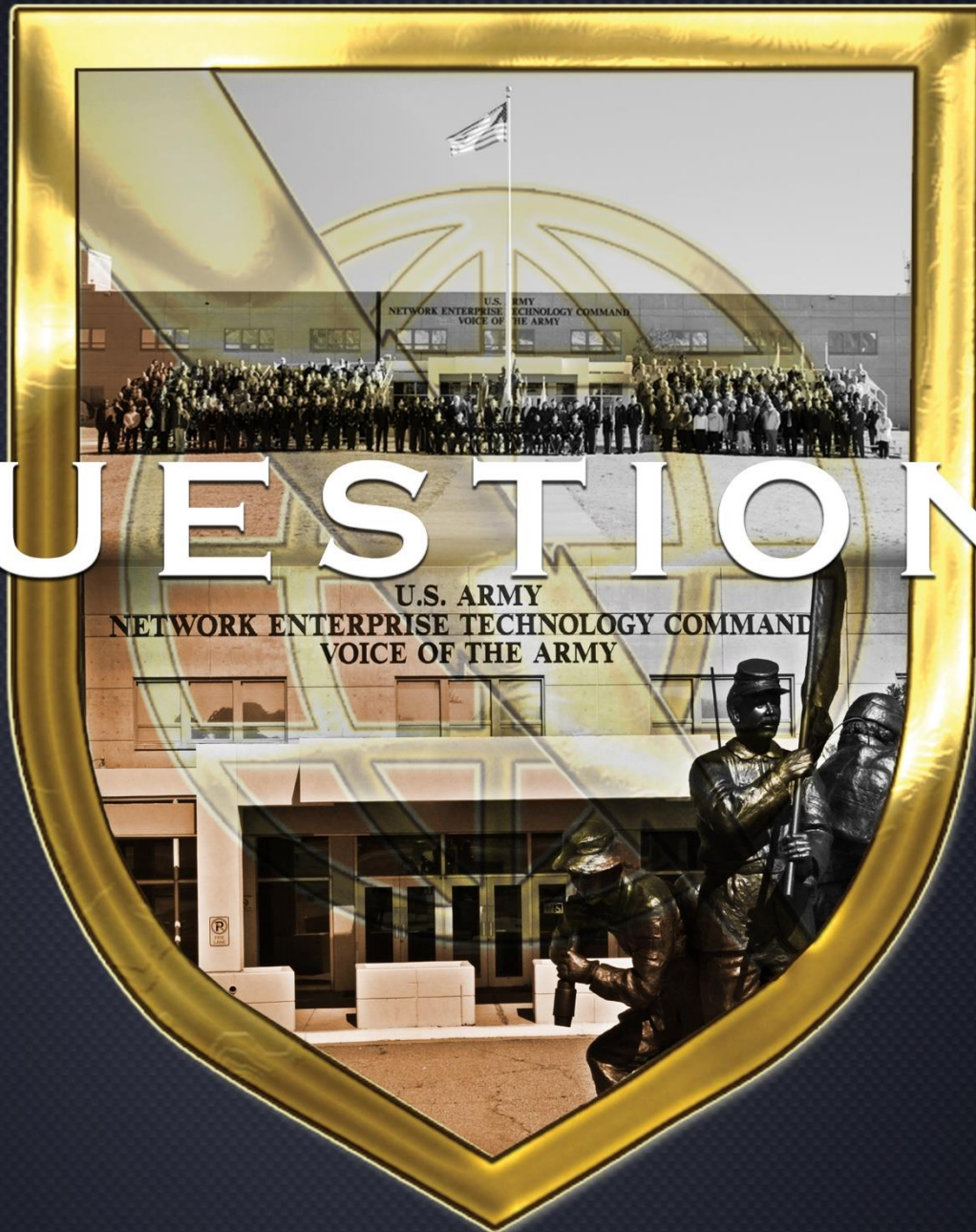
188-110A: The base standard in 1991

188-110B: Improved performance standards and includes 110A capabilities

188-110C: Improved performance standards and includes 110B capabilities

188-110D: Improved performance standards and includes 110C capabilities.

QUESTIONS



U.S. ARMY
NETWORK ENTERPRISE TECHNOLOGY COMMAND
VOICE OF THE ARMY



MARS Authorities and Missions



CJCS Order 2-18
NC Order 01-21

CJCS Order 2-18 (July 2018):

“US Army Network Enterprise Technology Command functions as the interface to MARS networks and other Service MARS programs as well as serving as the interface to the Radio Amateur Civil Emergency Service (RACES).”

- specifies the MARS mission in support of the DOD during a “worst-day” scenario.
- this is the mission we rehearse during the quarterly DOD COMEXes.
- requests for information will be directed by the supported DOD headquarters.
- requests for information may be directed to only specific locations and not all MARS areas equally.
- MARS primarily provides situational awareness information as requested by the supported HQs (eg. SWEAT reports, fuel status, power status, internet status, road closures, etc).



MARS Authorities and Missions



DODI 4650.02

Other 4650.02 Changes to highlight:

Military HF radio stations operated by military units are characterized as **government military HF stations** that may be supported by the Service MARS programs.

Military HF stations may receive MARS call signs and operate on all MARS assigned frequencies, but are not required to meet individual member participation and reporting requirements.

Civilian agencies are not authorized to affiliate with, or receive authority to operate in, the DoD MARS program. Civilian agencies will be referred to the DHS SHARES HF Radio Program for licensing, mission support, and HF spectrum authorizations.

MARS stations must be capable of operation in “radio only” modes (i.e., without landlines or the Internet) using **Military Standard 188-110D** data communication protocols to maintain interoperability with DoD and Federal Government agency radio stations.



MARS Authorities and Missions



USNORTHCOM OPORD 01-21 (DSCA and Homeland Defense):

OpOrder to
MARS Enterprise

- The order under which MARS may be tasked to provide support to DoD Components. MARS can also support, federal, state and local authorities but only when directed to do so by USNORTHCOM.
- As a FRAGO to this order, NORTHCOM will request MARS support through the US Army Cyber Command. NETCOM, subordinate to ARCYBER, will maintain OPCON of the MARS volunteer force in support of all USNORTHCOM missions to include DSCA.
- Army MARS is the lead for planning and execution of the volunteer MARS capability.
- Requests for information will be directed by USNORTHCOM or the designated Joint Force Commander or subordinate headquarters as required.
- MARS primarily provides situational awareness information as requested by the supported HQs (e.g. SWEAT reports, fuel status, power status, internet status, road closures, and the HF messaging requirements of the military component being supported)