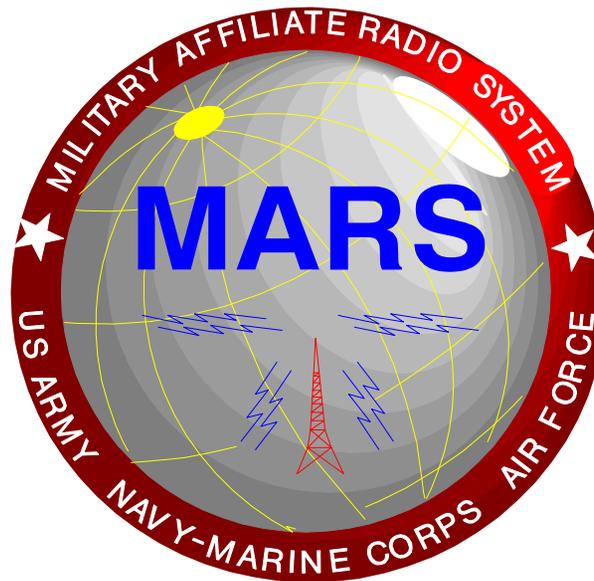
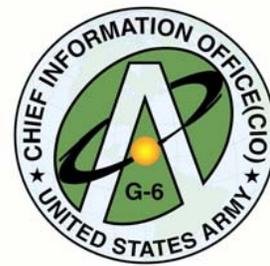


# United States Army Military Affiliate Radio System (MARS)



**‘Proud, Professional, & Ready’**

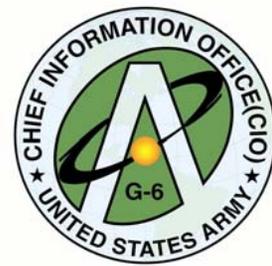


*Outline*

- **Program Directives, Missions & METL**
- **Primary Major Customers Supported**
- **Global Network , Management Structure**
- **Technology, Operations, & Disaster Relief Support Roles**
- **Exercises & Actual Incident Support Success Stories**
- **FY03 (Home Land Security Exercises & Future Projects)**

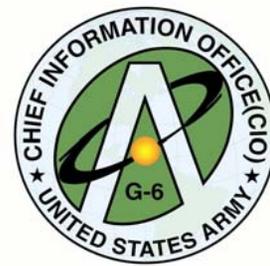


**NETCOM/9<sup>th</sup> Army Signal Command**



***MARS Program Directives***

- **DoD Directive 4650.2 (MARS) - Jan 98**
- **AR 25-6 (Army MARS ) - Apr 86**
- **NCS SHARES Documents, Oct 89 – Jan 02**
- **Army MARS S.O.P. - Apr 97**
- **Army MARS Emergency OPLAN 4-02 – Mar 02**

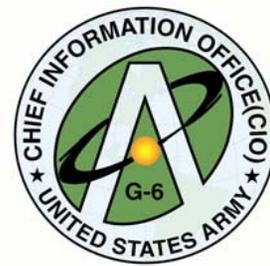


## *Missions*

- **Emergency Communications Support**
  - Primary Mission (Supports Mil & FRP)
  - Essential Elements of Information (EEI)
  - Provides Emergency Communications Support At All Levels
- **Morale & Welfare Support**
  - Secondary Training Mission (Most well Known )
  - Deployed Troops & Disaster Relief Victims
- **Training & Technology**
  - Radio Operations & Maintaining Networks
  - High Tech Hardware/Software (HF, VHF, & UHF Beta Testing)



## NETCOM/9<sup>th</sup> Army Signal Command

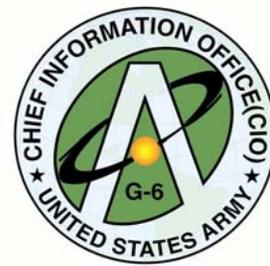


### *MARS METL*

- As the executive agent for DA, provides global management and direction for the Army Military Affiliate Radio System (MARS) and Amateur Radio programs for the Army.
- Directs and supervises the development and execution of MARS emergency radio communications plans, exercises and actual disaster relief in support of DOD, JCS, DA Military, Director of Military Support (DOMS), Federal emergency Management Agency (FEMA), NCS-Shared Resources (SHARES), and civil requirements in support of national security and emergency preparedness activities. ([Adding Homeland Security](#))
- Assists in effecting normal communications supporting military, civil and/or disaster relief officials during periods of emergencies
- Represents Army MARS at DOD, JS, DA, DOMS, FEMA, SHARES and Amateur Radio League (ARRL) conferences.



## NETCOM/9<sup>th</sup> Army Signal Command



### *Primary Customers*

- **DOMS:** Provide daily flow of **Essential Elements of Information (EEI)** to DOMS from the disaster area
- **MILITARY:** Active, Reserve, National Guard
  - Emergency Communications and Morale/welfare support (deployed forces)
- **USASC/NETCOM:** Provide EEI & status reporting to USASC decision makers to support NETCOM mission & Back-Up Anti-Terrorism Communications
- **FEMA:** Provide emergency communications support to FEMA, national and state level
- **SHARES:** Participate with 58 other federal & state organizations in support of the National Communications System (NCS)
- **NDMS:** Provide communications link between major public health facilities/agencies and deployed DMAT teams
- **State Department:** Provide back-up communications support
- **Homeland Security Support:** Coordination in progress with DOD/DISA/JS



# NETCOM/9<sup>th</sup> Army Signal Command



## *Army MARS Management Structure*

HQ NETCOM/9th ASC USASC  
G3

Trng & Exc  
Division

**MR. ROBERT SUTTON**  
Chief, Army MARS  
& MARS Contracts (COR)

**MR. JAMES BANKS**  
Western Area Coordinator

**MR. ROBERT HOLLISTER**  
Eastern Area Coordinator

**MR. THEODORE CRISTOBALL**  
MARS Surplus Property

**MS JUANITA PORTZ**  
Membership Administration

Western Area GW Station  
(Ft Huachuca, AZ)

Eastern Area GW Station  
(Ft Detrick, MD)

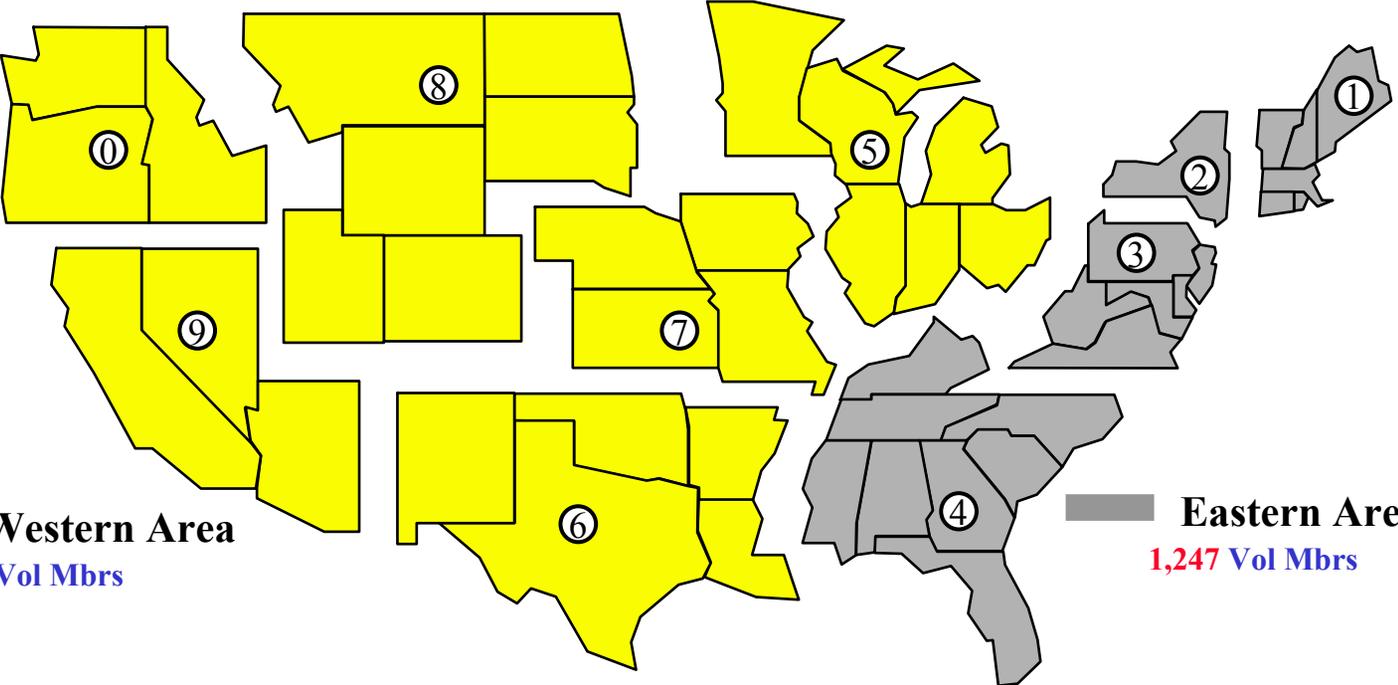
22 Volunteer Chief 's Special Staff Members  
&  
Up To 3,000 Volunteer Members



# NETCOM/9th Army Signal Command



## CONUS Area Operations (Operational Oversight Footprint)



**Western Area**  
1,320 Vol Mbrs

**Eastern Area**  
1,247 Vol Mbrs

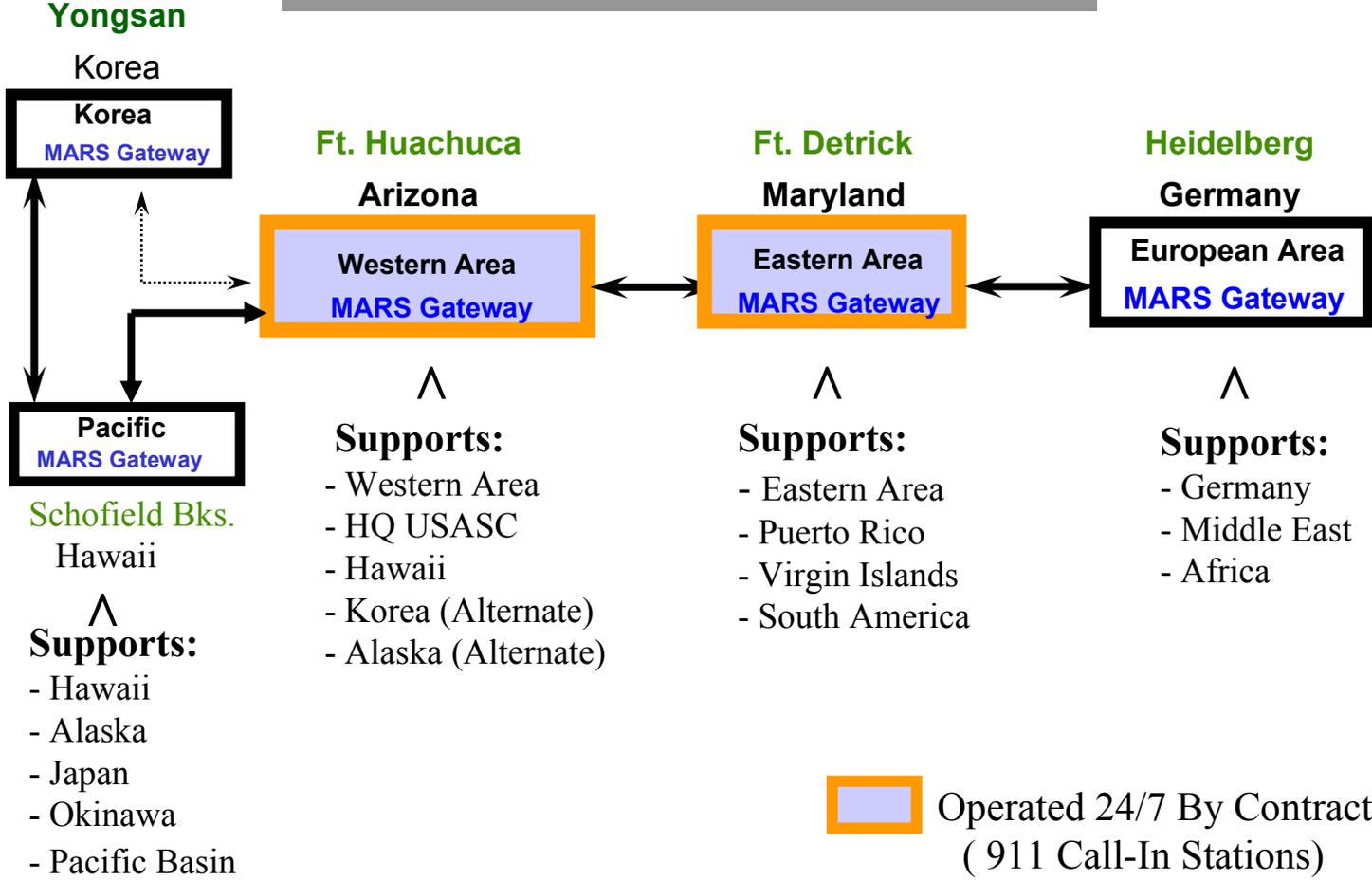
○ = Numbered FEMA & MARS Regions



# NETCOM/9th Army Signal Command



## Army MARS Global Digital Area GW Stations/Network

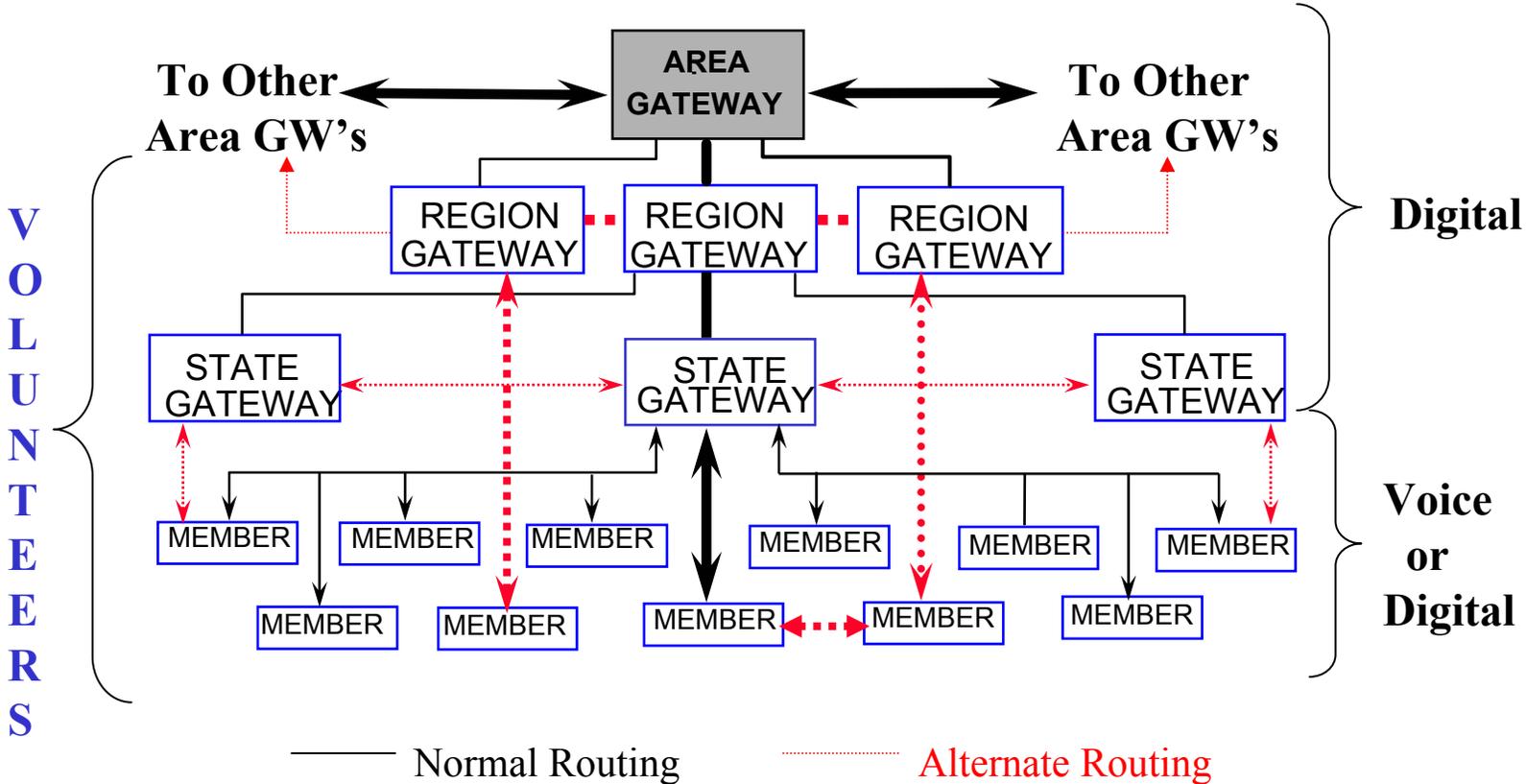




# NETCOM/9<sup>th</sup> Army Signal Command



## CONUS Digital HF Traffic Network





# NETCOM/9<sup>th</sup> Army Signal Command



## Army MARS CONUS Volunteer Locations

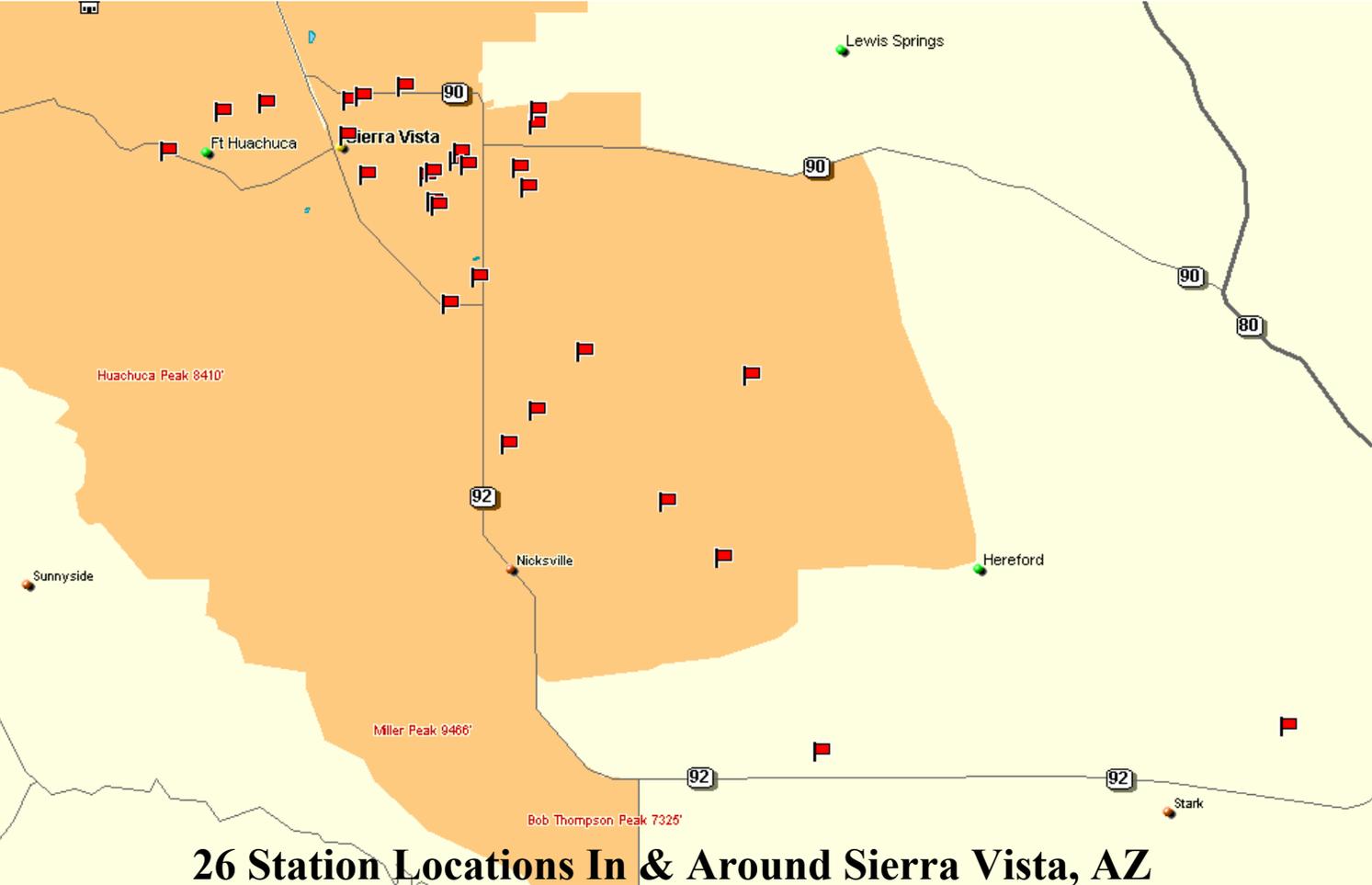




# NETCOM/9th Army Signal Command



## Army MARS Stations (Sierra Vista, AZ)

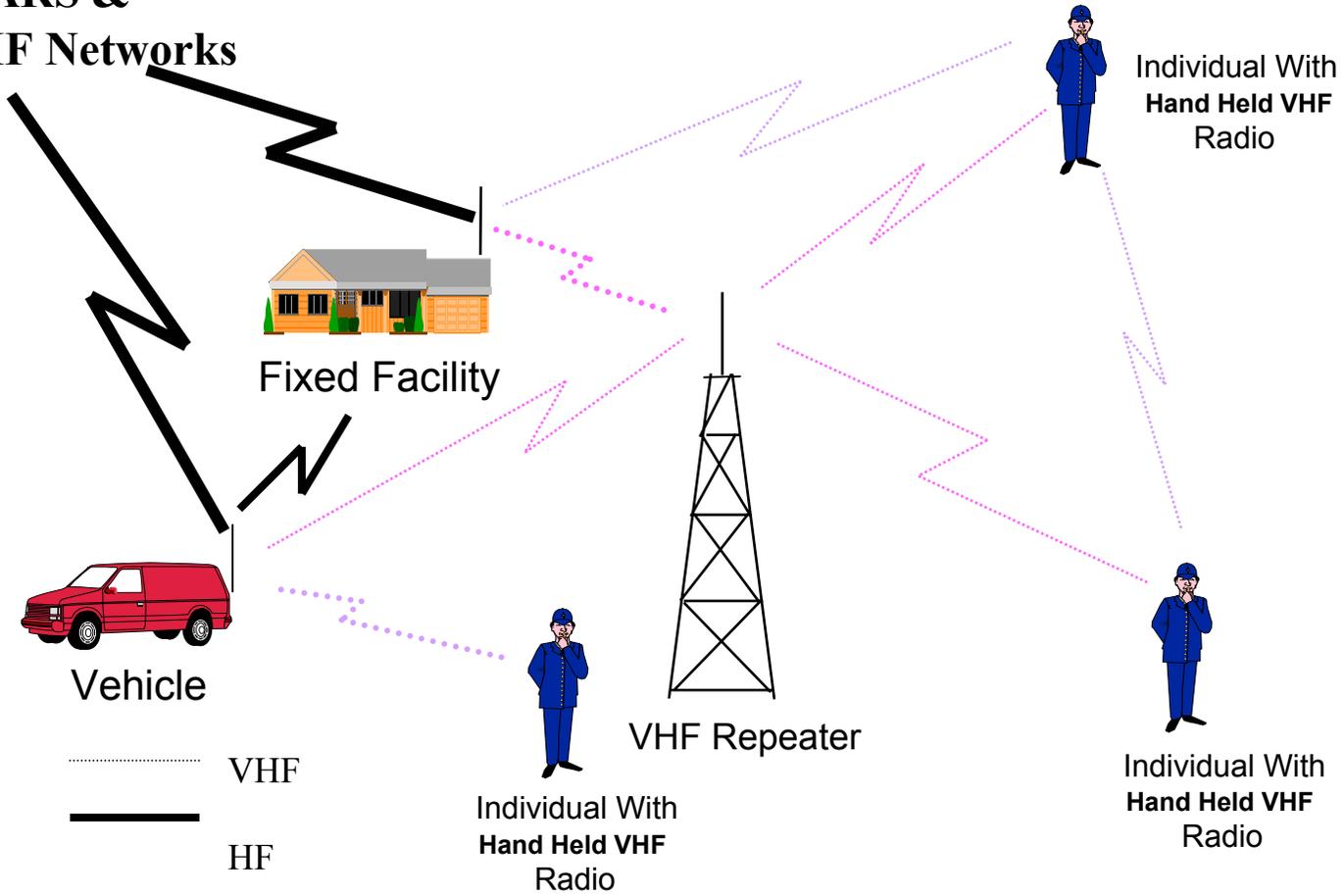


**26 Station Locations In & Around Sierra Vista, AZ**



**MARS VHF & HF Network**

**To MARS &  
Other HF Networks**



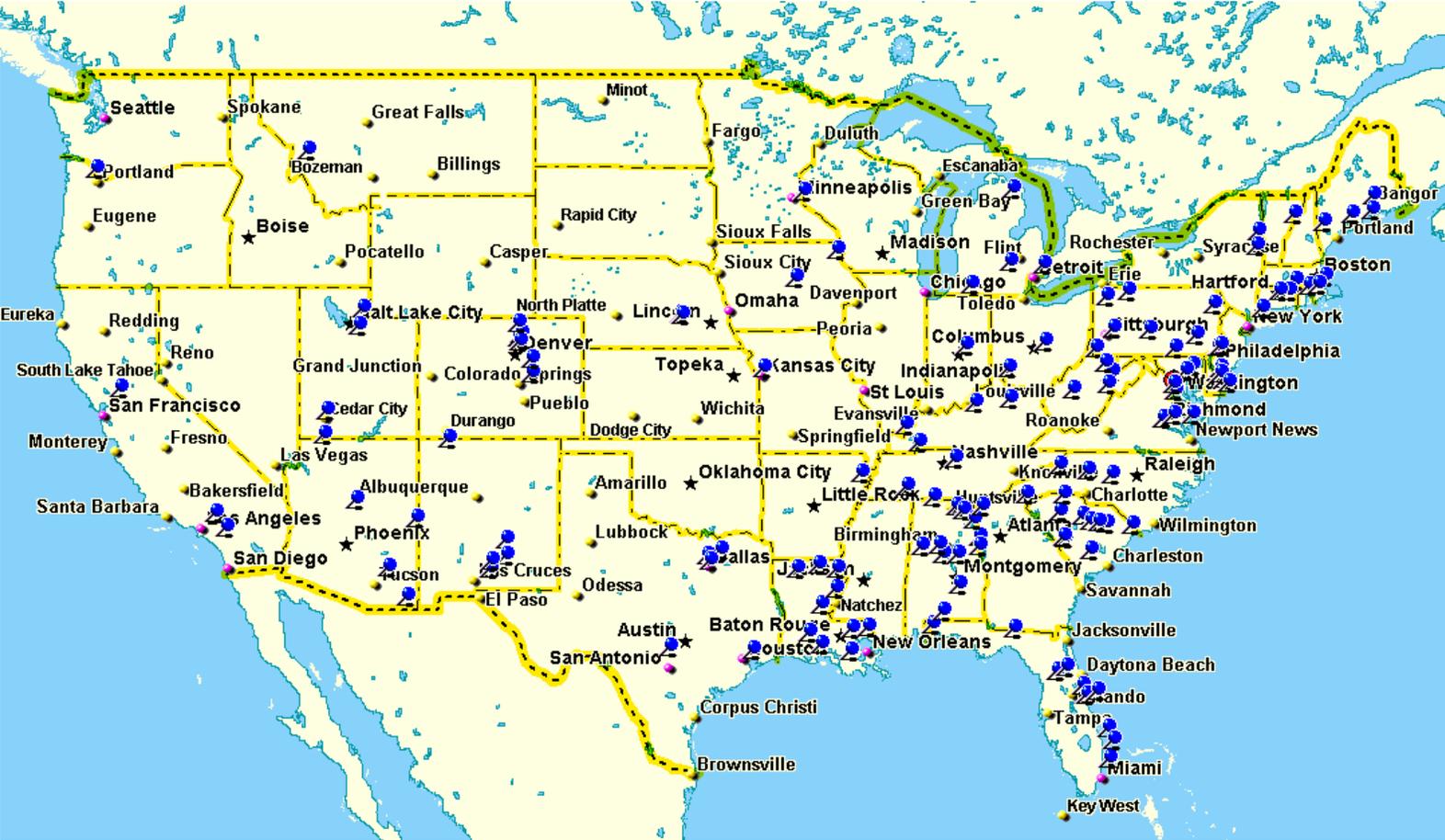
..... VHF  
 ————— HF

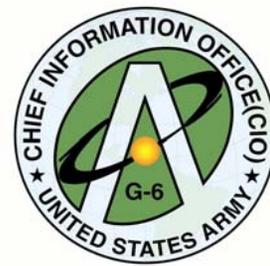


# NETCOM/9th Army Signal Command



## Army MARS VHF/UHF Repeater Locations





*Volunteer Membership Participation*  
(CY 2001)

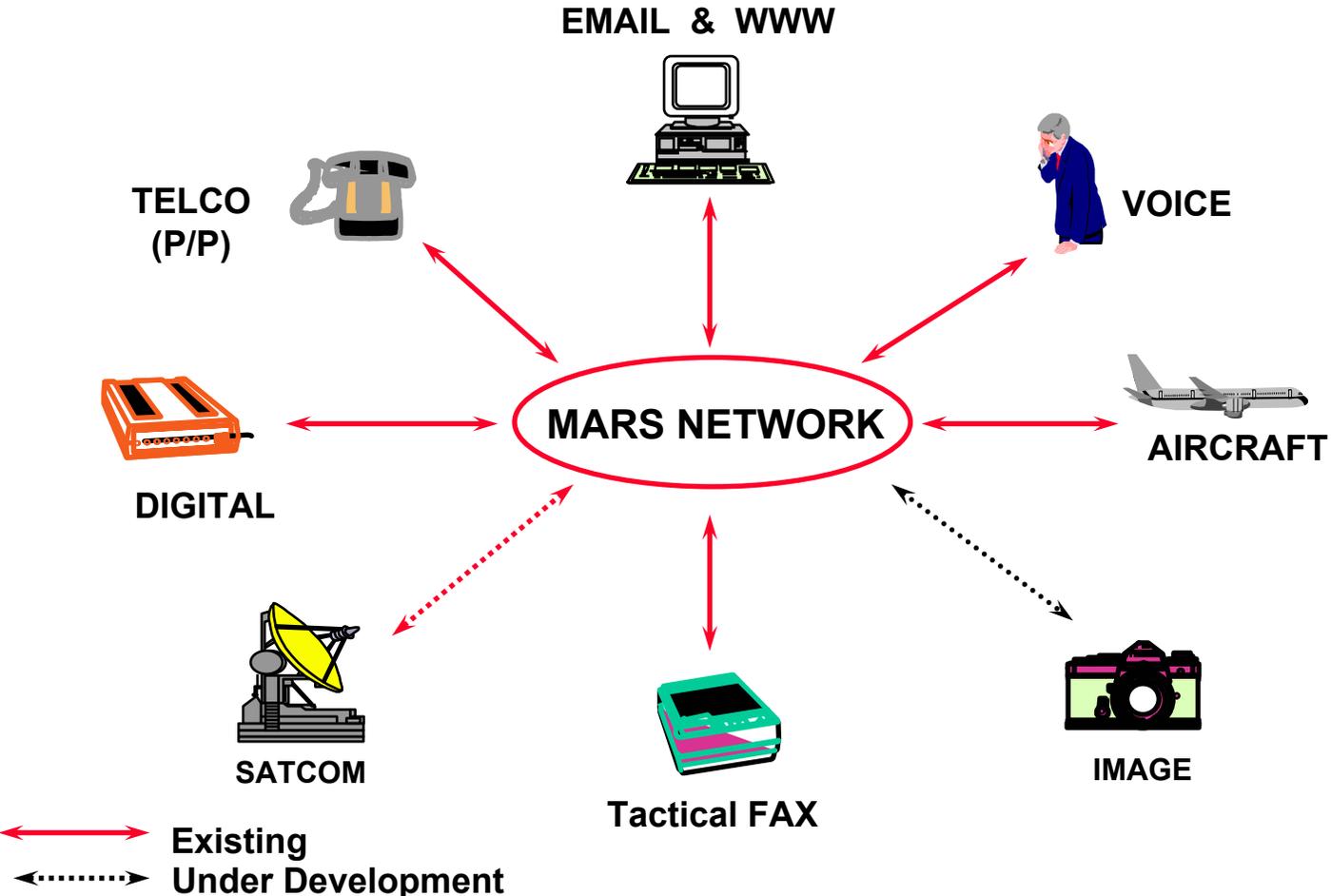
- **TOTAL HOURS: 616,565** ( Cost Avoidance of 296 man years)
- **TOTAL ON-AIR HOURS: 452,024** ( 74% of Total Hours )
- **TOTAL MESSAGES ORIGINATED: 86,744**
- **MESSAGES PROCESSED: 414,599** (Average relay 5 times)
- **TOTAL PHONE PATCHES COMPLETED: 652**
- **AVERAGE VOLUNTEER MEMBERSHIP: 2,091**
  - **Total Stations in Database As of 31 Dec 01: 2,574**



# NETCOM/9th Army Signal Command

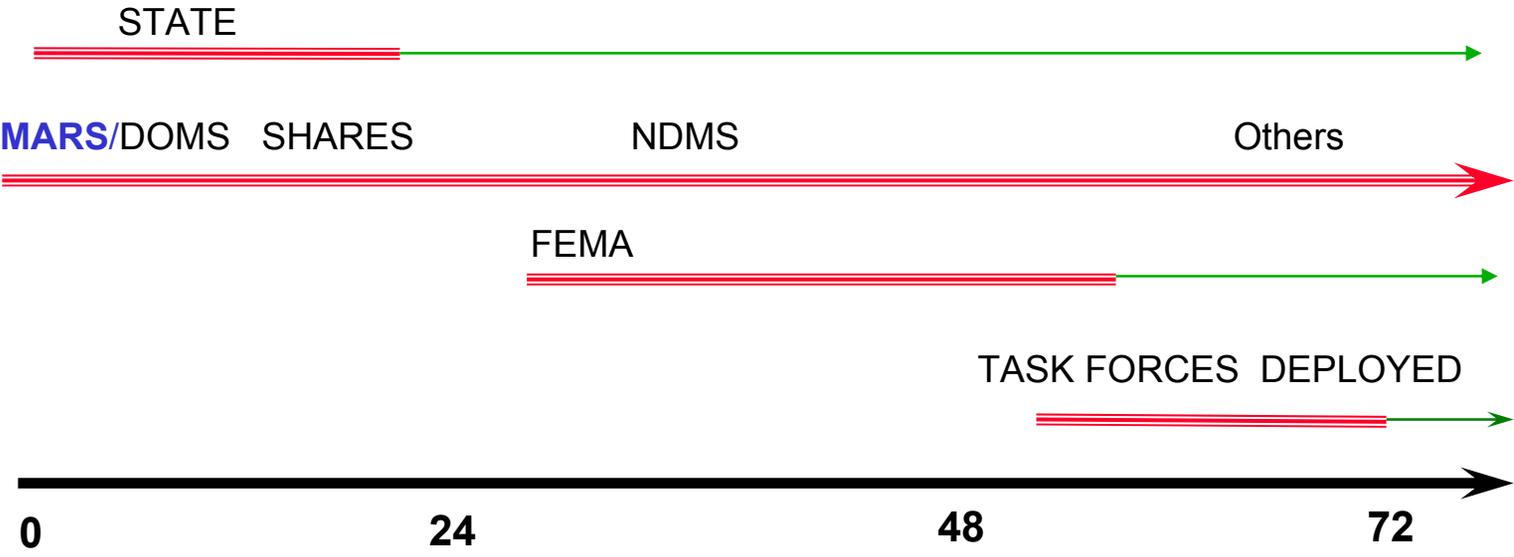


## Technology Employed



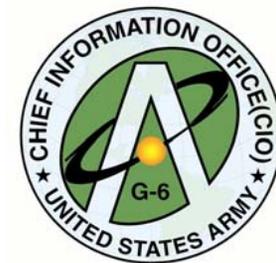


***Emergency Support Concept  
(Timeline)***

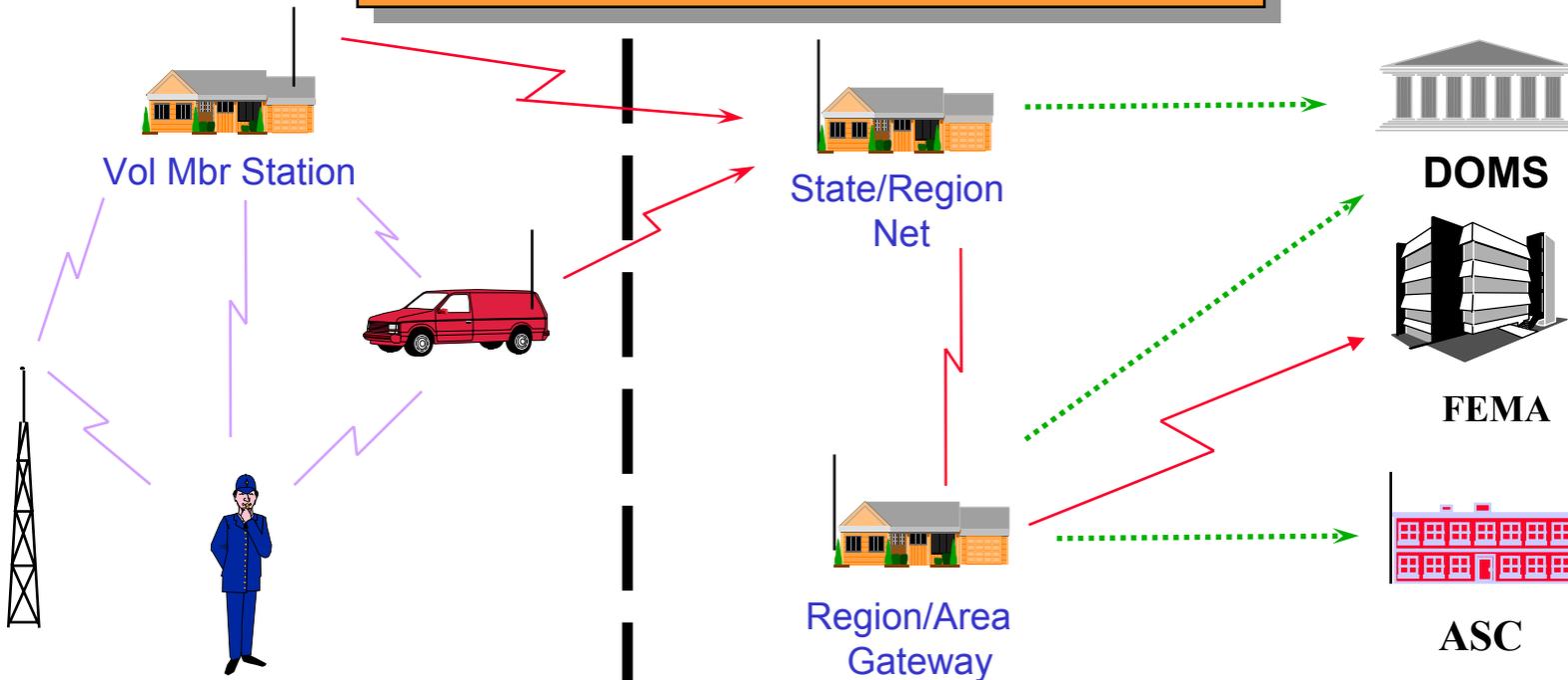


**1st 72 Hours**

- Initial Support
- Follow-on Support



*MARS Disaster Relief  
Communications Support Network*

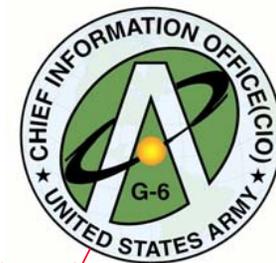


**DISASTER AREA  
MARS Network**

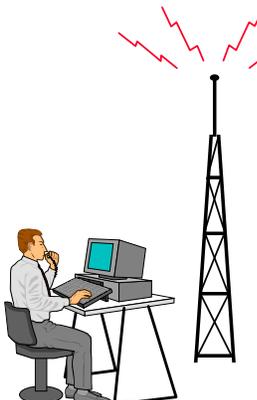
**OUTSIDE DISASTER AREA  
Federal Response Plan Partners**

⚡ VHF / UHF Radio  
⚡ HF Voice & Digital Radio -

➡ Email / Fax

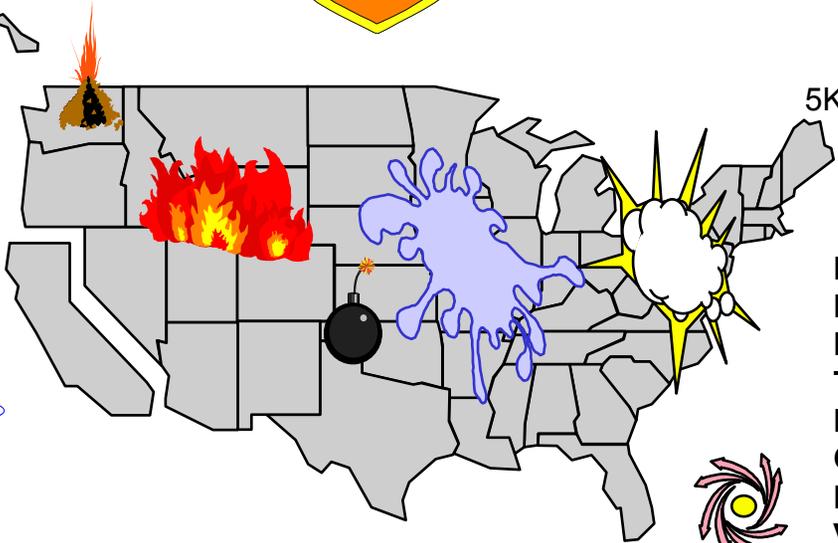
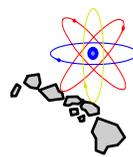
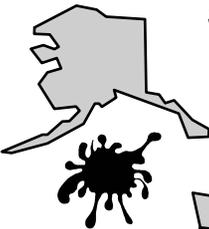


MARS Emergency Communications Mission Overview



MAJOR CUSTOMERS

- MILITARY
- NETCOM/9<sup>th</sup> ASC
- DOMS
- FEMA
- NDMS
- NCS
- STARC
- SHARES
- State Department
- SOLDIERS/ FAMILIES



Essential Elements of Information

Emergency Communications Support



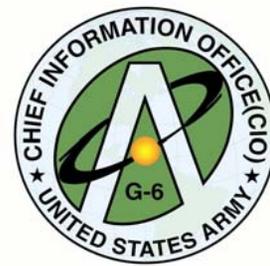
5K - 10K Members (All Services)



DISASTER SUPPORT

- EARTHQUAKES
- HURRICANES
- FLOODS
- TYPHOONS
- HEAVY SNOW / ICE
- CHEMICAL SPILLS
- FOREST FIRES
- VOLCANOES
- SEARCH/RESCUE
- Y2K SUPPORT

Home Land Security



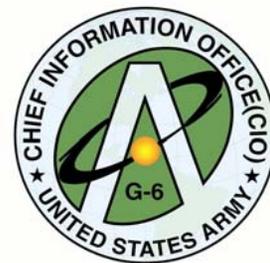
***MARS SUPPORT***  
**(Home Land Security Exercise 2002)**

**( MISSION )**

- \* **Home Land Security Support (Jun 02)**
  - **Scenario > Multiple Terrorist “Hidden Shadow” Exercises**

**( TASKS )**

- \* **Establish Radio Contact & Provide Emergency Communications Support**
  - **State EOC’s – State/County/City Exercises**
  - **NG/Reserve Units – State Exercises**
  - **Federal Emergency Management Agency (FEMA) - Quarterly Test**
  - **National Disaster Medical System (NDMS) – DMAT Teams Exercise**
  - **NCS Shared Resources (SHARES) Quarterly Exercise**
  - **State Department - CONUS Connectivity Exercise**
- \* **Provide Information From Disaster Scenes To:**
  - **EEI’s – Director of Military Support (DOMS) & HQ USASC (CAC)**
  - **SITREP’s - HQ USASC (CAC)**



***MARS SUPPORT***  
**(Home Land Security Exercise 2002)**

**TRAINING OBJECTIVES**

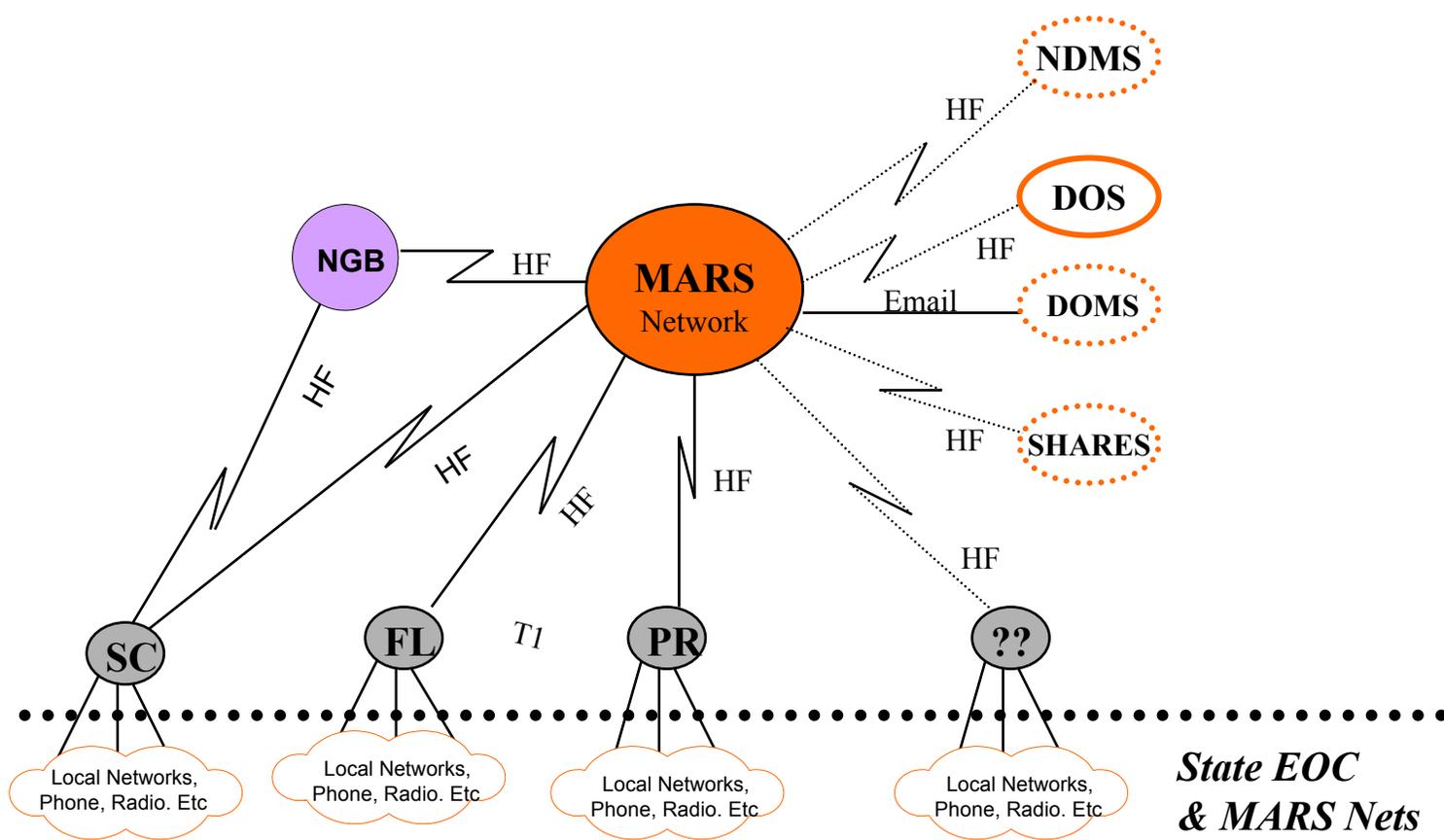
- \* **Execute/Evaluate Revised Army MARS National Emergency OPLAN 4-01**
- \* **Execute/Evaluate Revised Army MARS State OPLANS**
- \* **Improve Interoperability (Message Traffic Flow) With:**
  - **National Guard**
  - **Federal Emergency Management Agency (FEMA)**
  - **National Disaster Medical System (NDMS)**
  - **Shared Resources (SHARES)**
  - **State Department**
  - **Amateur Radio Emergency Services (ARES)**
  - **Radio Amateur Communications Emergency Services (RACES)**
  - **State/Local Level**
  - **Other MARS Services (Air Force, Navy-Marine Corps)**
- \* **Identify ‘Lessons Learned’ In Support of Home Land Security**

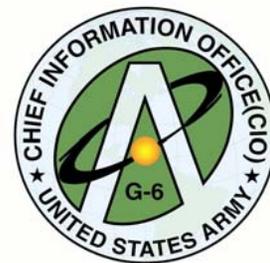


# NETCOM/9<sup>th</sup> Army Signal Command



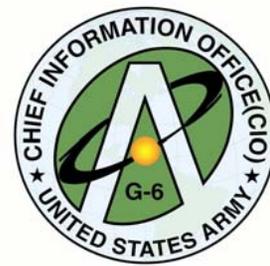
## Homeland Security Interface (Proposed MARS Interface (GF03))





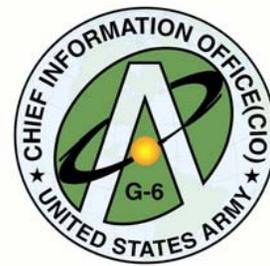
***Military Support***  
**(Success Stories 2000-2002)**

- **OPERATION JOINT VENTURE (Bosnia) (2000-02)**
- **SPECIAL FORCES DEPLOYMENT (Africa) (2000-02)**
- **CAMP BONDSTEEL (Kosovo) (2001-02)**
- **SPECIAL FORCES DEPLOYMENT (Macedonia) (2001-02)**
- **SPECIAL FORCES DEPLOYMENT (Pakistan) (2001-02)**
- **SPECIAL FORCES DEPLOYMENT (Afghanistan) (2001-02)**
- **10TH MOUNTAIN DIVISION (Uzbekistan) (2001-02)**



***(Non-Military) EXERCISE SUPPORT  
(Success Stories 2000-02)***

- **NATIONWIDE QUARTERLY FEMA NECN EXERCISES (2000-02)**
- **SHARES WEEKLY & SEMI-ANNUAL EXERCISES (2000-02)**
- **Y2K SUPPORT - LOCAL, NATIONAL, INTERNATIONAL (2000)**
- **NATIONAL DISASTER MEDICAL SYS (NDMS) (2000-01)**
- **ARMED FORCES DAY ACTIVITIES (2000-02)**
  - **Military to Amateur Radio Cross band Test (Since 1949)**



*Major Ongoing Projects*  
(FY 03)

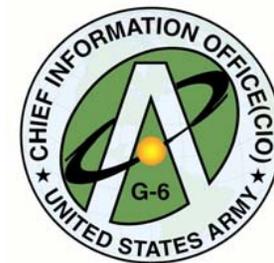
- Focus MARS Exercises On Homeland Security
  - FEMA MERS Test & Exercises (Test Completed)
  - State Level Exercises (Including NG & Reserves)
- Revise AR 25-6 (MARS) (Draft revision being staffed)
- Revise Army MARS PAM/SOP (Revision In progress)
- Update Army MARS Net Plan (Completed)
- Update Army MARS Emergency OPLAN (Completed)
- Update Army MARS Basic Training Guide (Completed)
- MARS Support for Homeland Security (In progress)
- EEI Reporting (Continuous)
- Customer & MARS Exercise Support (Continuous)
- Morale & Welfare Support (Continuous)



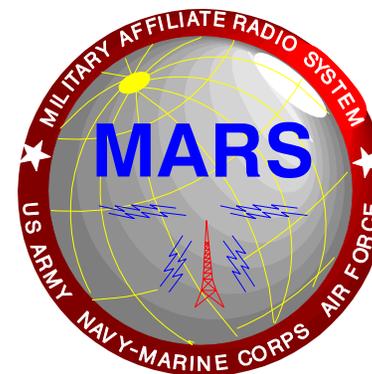
***MARS PROGRAM VALUE***

- **MARS** - Is **READILY AVAILABLE** in support of the Federal Response Plan (FRP)
- **MARS** - Performs a **REAL-WORLD, CRISIS-SUPPORT MISSION** Today That No One Else Performs
- **MARS** - **PROVIDES EEI INFO** For Crisis Decision Makers
- **MARS** - **PROVIDES DA EMERGENCY COMMUNICATIONS** Where Commercial & Military Services May Not Exist

**MARS WORKS - - AND IS EXTREMELY COST EFFECTIVE**



## *Army MARS FUTURE*



*Expansion of  
Emergency Communications  
Support Role  
To  
Homeland Security*



# QUESTIONS

