Marine Corps Network Operations and Security Center

AFCEA

29 July 2009

MCNOSC Mission

MCNOSC <u>directs</u> global network <u>operations</u> and computer network <u>defense</u> of the Marine Corps Enterprise Network (MCEN) and provides technical leadership … in support of Marine and Joint forces operating worldwide.

Vision: We arm the Marine Corps for success on the network-centric battlefield by enabling secure, global information exchange across the full spectrum of operations.
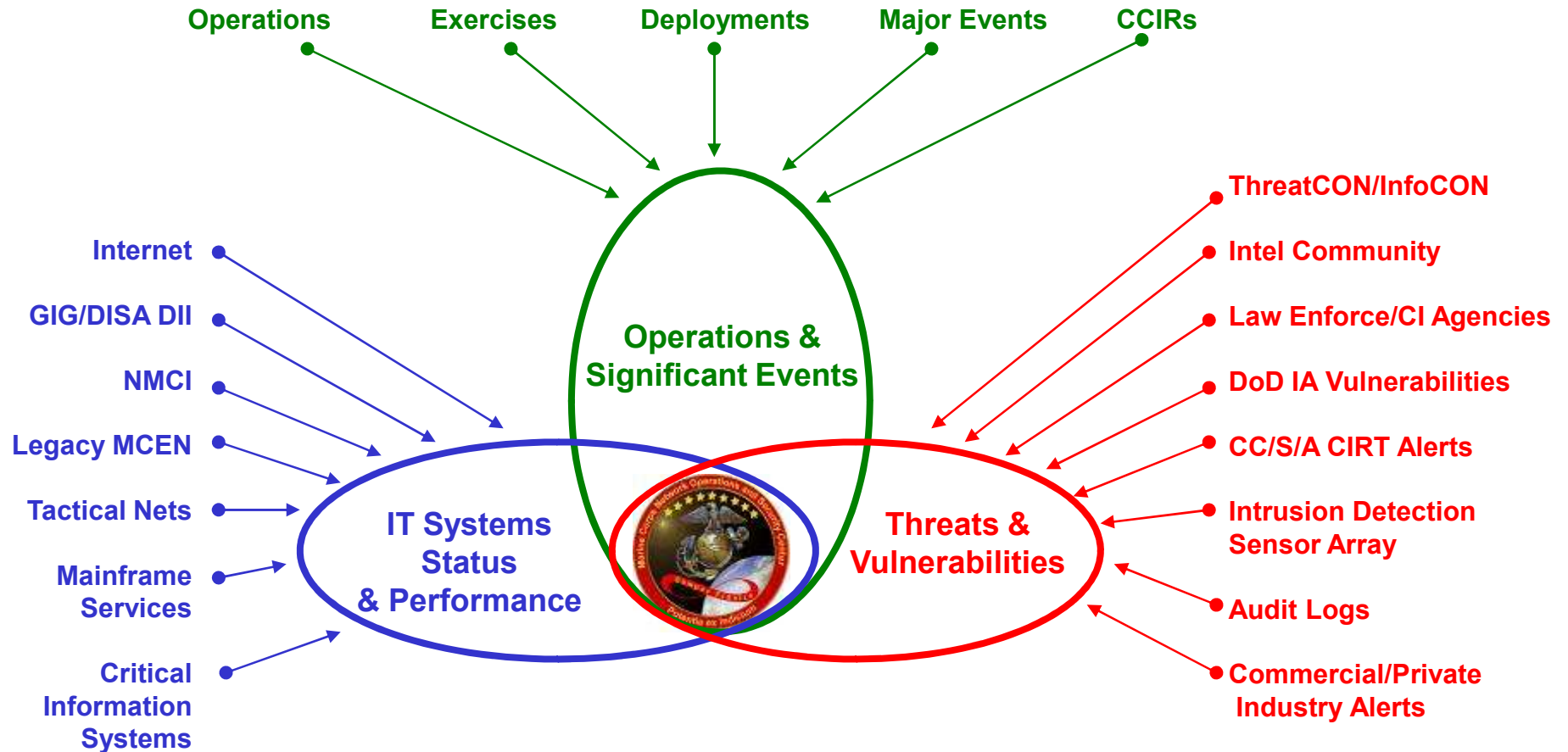
MCEN

The MCEN encompasses the entirety of the Marine Corps' general service (NIPR and SIPR), common user network environment, to include all communication circuits and attached devices and systems. The MCEN is comprised of the garrison network (both NMCI and Legacy), deployed/tactical networks, and infrastructure that supports access to Defense Information Systems Agency (DISA) managed mainframe computer services. The MCEN is the Marine Corps portion of the overall DoD Global Information Grid (GIG).

Total MCEN NIPR Hosts: 115K+ (Garrison & Deployed)
Total MCEN SIPR Hosts: 25K+ (Garrison & Deployed)

Pulling the Operational Picture Together

Operations   Exercises   Deployments   Major Events   CCIRs

Internet
GIG/DISA DII
NMCI
Legacy MCEN
Tactical Nets
Mainframe Services
Critical Information Systems

Operations & Significant Events

IT Systems Status & Performance

Threats & Vulnerabilities

ThreatCON/InfoCON
Intel Community
Law Enforce/CI Agencies
DoD IA Vulnerabilities
CC/S/A CIRT Alerts
Intrusion Detection Sensor Array
Audit Logs
Commercial/Private Industry Alerts
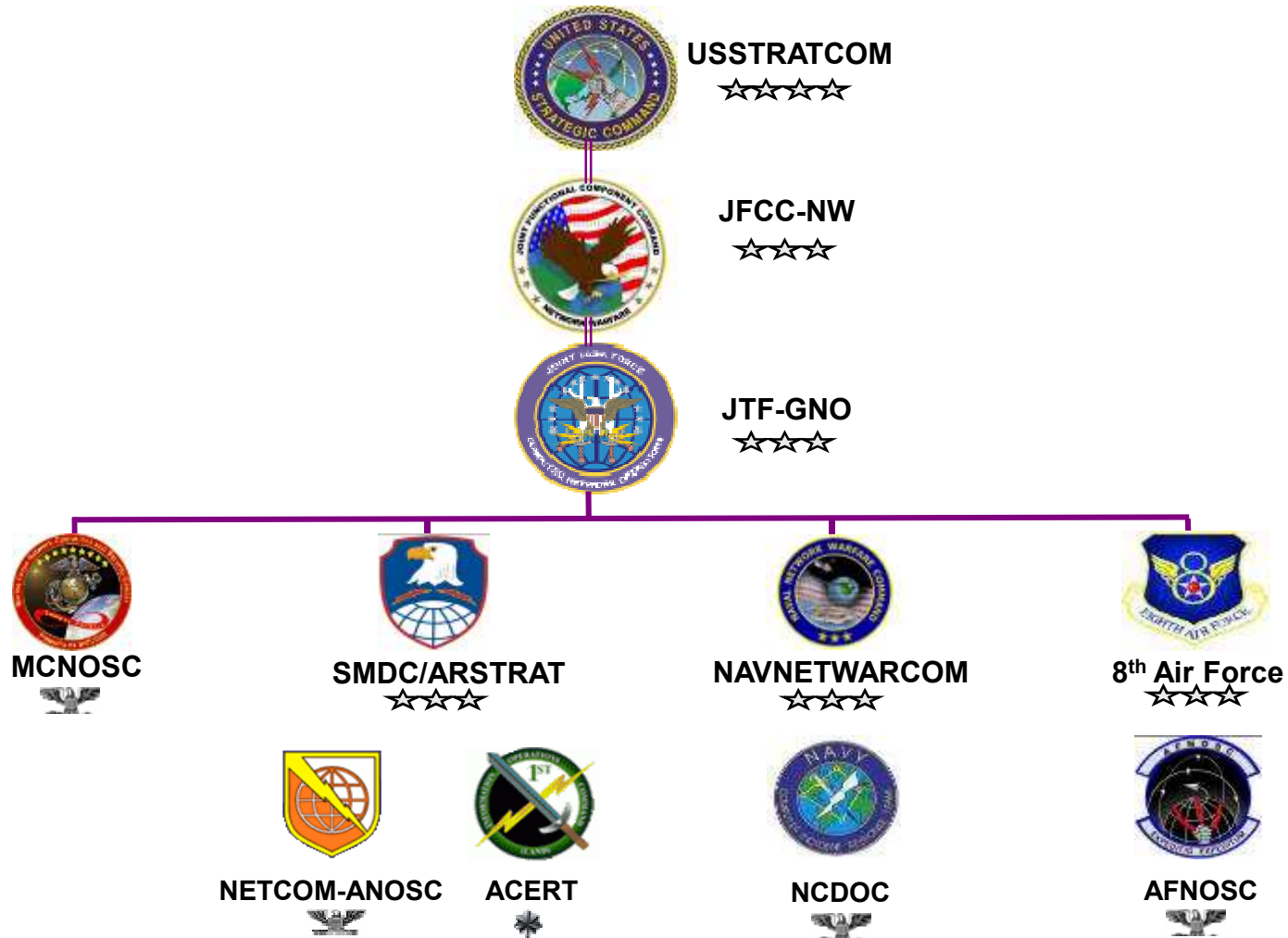
Goal – gain & maintain global situational awareness to enable effective 24x7 protection

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JTF-GNO Components

USSTRATCOM
☆☆☆☆

JFCC-NW
☆☆☆

JTF-GNO
☆☆☆

MCNOSC

SMDC/ARSTRAT
☆☆☆

NAVNETWARCOM
☆☆☆

8th Air Force
☆☆☆

NETCOM-ANOSC

ACERT

NCDOC

AFNOSC

Command Relationships

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┌─────────────────────────┐
│        Commander        │
│ U. S. Strategic Command │
│       ★★★★★            │
└─────────────────────────┘
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Commander
U. S. Strategic Command
★★★★★

Commandant of
the Marine Corps
★★★★

Director, C4
★

Commander
Joint Functional Component Command
Network Warfare
★★★

Commander
Marine Forces Strategic Command
★★★

Commander
Joint Task Force
Global Network Operations
★★★

Commanding Officer
MCNOSC

Legend:
──────── Combatant Command
──────── Operational Control
·············· Service Command
(and ADCON)
─ ─ ─ ─ Service Coordination

MCNOSC is the USMC Component to JTF-GNO

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MCNOSC Organization

Executive Staff

CIM
MKO
Personnel
Awards

S-2
Intel Collections
Intel Analysis

S-4
Fiscal
Facilities
Supply
ISC
Security

S-5
Architecture Dev
   ESM/ND Planning
   Capability Plan
   NetOps Planning
Cert & Accreditation
Red Team Ops

S-3

Alt NOSC

MITSC Lead

MARCERT
IDS Ops
IA Incident Response
CND Tools
Security Policies
Audit & Analysis
Vulnerability Mgmt

Current Operations

Operations Center
Two Ops Teams (4 Watch Sections)
   Service Desk
   Incident Management

Enterprise Services
Deployed Support
DMS
Infrastructure Security
Enterprise Directory & Messaging
Real Time Services
NetCOP Tools
Mainframe
Public Key Infrastructure (PKI)

Future Operations
Command Unity of Effort
Mission Analysis & Planning
Training
Exercise Support

Organized for 24x7 NETOPS
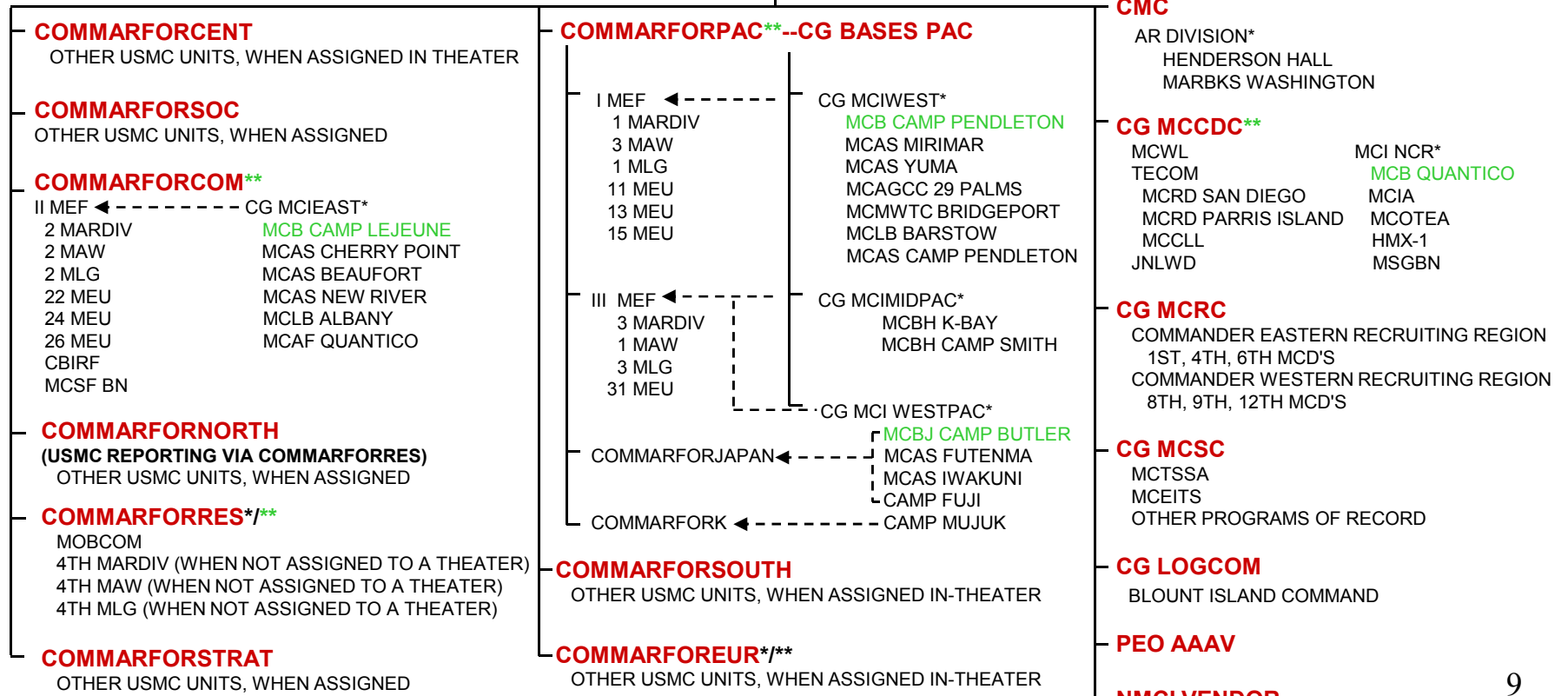
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USMC NetOps C2
Current Reporting Structure

USSTRATCOM
JFCC-NW
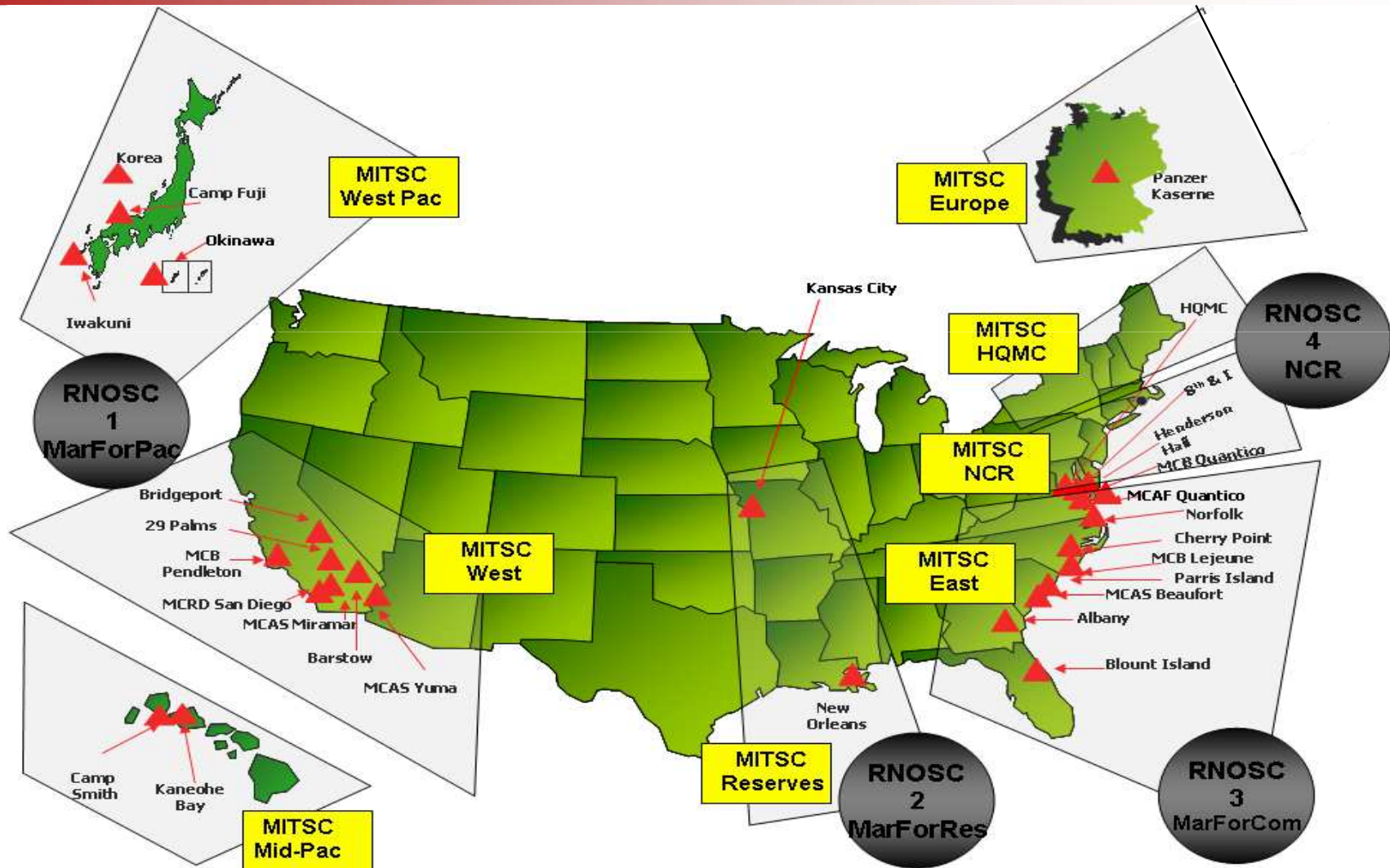**JTF-GNO**

USMC Component (MCNOSC)***

Key
*   Future MAGTF IT Support Center (MITSC (8))
**   Future Regional Network Operations and Security Center (RNOSC (5))
***   Global IT Ops Center/Capabilities
———   OPCON for NETOPS
- - -   Direct Support for NETOPS

COMMARFORCENT
OTHER USMC UNITS, WHEN ASSIGNED IN THEATER

COMMARFORSOC
OTHER USMC UNITS, WHEN ASSIGNED

COMMARFORCOM***
II MEF ◄ - - - - - - - - CG MCIEAST*
   2 MARDIV   MCB CAMP LEJEUNE
   2 MAW   MCAS CHERRY POINT
   2 MLG   MCAS BEAUFORT
   22 MEU   MCAS NEW RIVER
   24 MEU   MCLB ALBANY
   26 MEU   MCAF QUANTICO
   CBIRF
   MCSF BN

COMMARFORNORTH
(USMC REPORTING VIA COMMARFORRES)
OTHER USMC UNITS, WHEN ASSIGNED

COMMARFORRES*/**
   MOBCOM
   4TH MARDIV (WHEN NOT ASSIGNED TO A THEATER)
   4TH MAW (WHEN NOT ASSIGNED TO A THEATER)
   4TH MLG (WHEN NOT ASSIGNED TO A THEATER)

COMMARFORSTRAT
OTHER USMC UNITS, WHEN ASSIGNED

COMMARFORPAC**--CG BASES PAC

   I MEF ◄ - - - - -   CG MCIWEST*
     1 MARDIV   MCB CAMP PENDLETON
     3 MAW   MCAS MIRIMAR
     1 MLG   MCAS YUMA
     11 MEU   MCAGCC 29 PALMS
     13 MEU   MCMWTC BRIDGEPORT
     15 MEU   MCLB BARSTOW
                   MCAS CAMP PENDLETON

   III MEF ◄ - - -   CG MCIMIDPAC*
     3 MARDIV   MCBH K-BAY
     1 MAW   MCBH CAMP SMITH
     3 MLG
     31 MEU

                  CG MCI WESTPAC*
   COMMARFORJAPAN◄ - - -   MCBJ CAMP BUTLER
                  MCAS FUTENMA
                  MCAS IWAKUNI
                  CAMP FUJI
   COMMARFORK ◄ - - - - - - CAMP MUJUK

COMMARFORSOUTH
OTHER USMC UNITS, WHEN ASSIGNED IN-THEATER

COMMARFOREUR*/**
OTHER USMC UNITS, WHEN ASSIGNED IN-THEATER

CMC
  AR DIVISION*
    HENDERSON HALL
    MARBKS WASHINGTON

CG MCCDC**
  MCWL   MCI NCR*
  TECOM   MCB QUANTICO
   MCRD SAN DIEGO   MCIA
   MCRD PARRIS ISLAND   MCOTEA
   MCCLL   HMX-1
  JNLWD   MSGBN

CG MCRC
  COMMANDER EASTERN RECRUITING REGION
   1ST, 4TH, 6TH MCD'S
  COMMANDER WESTERN RECRUITING REGION
   8TH, 9TH, 12TH MCD'S

CG MCSC
  MCTSSA
  MCEITS
  OTHER PROGRAMS OF RECORD

CG LOGCOM
  BLOUNT ISLAND COMMAND

PEO AAAV

NMCI VENDOR

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Last Updated: 19 Mar 09

RNOSCs, MITSCs Locations

ALTNOSC

- ALTNOSC provides COOP facility separated by geography and weather patterns from MCNOSC in Quantico, Virginia
  - Provides MCEN Mission Essential Services and Functions (MESF)
  - Active facility manned by cadre; integrated into MCNOSC/JTF-GNO daily battle rhythm
  - Designated MCNOSC COOP personnel (fly out contingent) respond from MCB Quantico as necessary
  - Remains on-line until MESF are fully restored at MCNOSC primary site
- Milestone Dates:
  - Initial Operational Capability Achieved 4 Nov 08 (Elections)
  - Full Operational Capability Achieved 20 Jan 09 (Inauguration)
  - Full COOP Exercise 25 May - 12 Jun 09

MCNOSC 2009-2010 Initiatives

- Focus on actionable intelligence for network defenders

- Process improvement/integration of intelligence with network defenders (law enforcement, NETOPS, and CND) at MCNOSC

- Develop partnership with LE/CI community via NCIS SA at MCNOSC

MCNOSC 2009-2010 Initiatives

- Cyber Command Stand Up/Operation Gladiator Phoenix

- MCEN Hardening/HBSS Deployment

- OIF/OEF Deployment Support

- Standup of Alt-NOSC (COOP refinement)

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MCNOSC 2009-2010 Initiatives

- Enterprise Information Technology Service Management (EITSM) for NETOPS

- Marine Corps Garrison Networks Transition and Realignment Effort

- Marine Corps Information Assurance Red Team (MCIART)

- Marine Corps Enterprise Information Technology System (MCEITS)

- MILCON (P625) – MCNOSC Annex
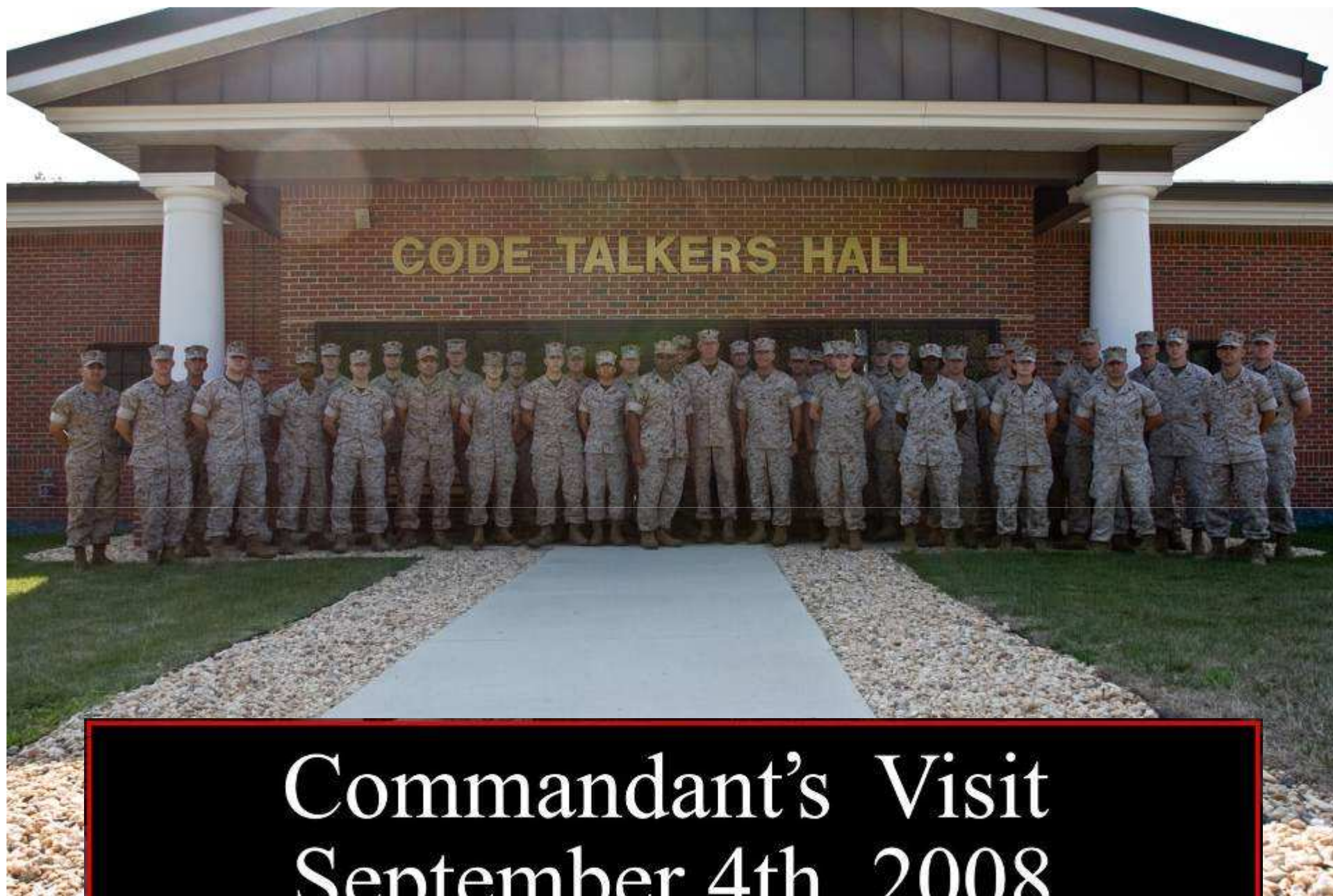
Commandant's Visit
September 4th, 2008