

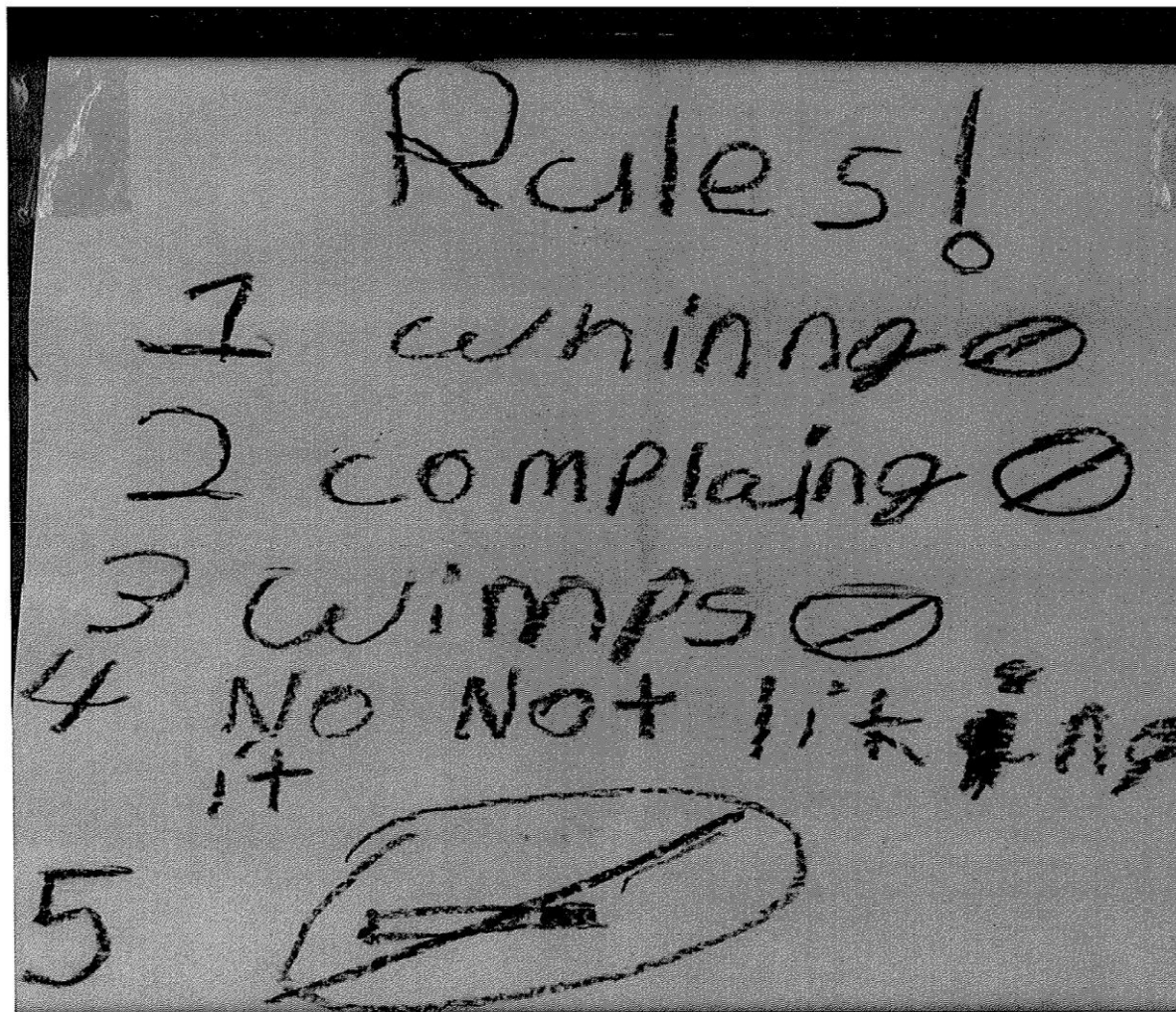


# *Microsoft Navy Marine Corps Symposium*

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Director HQMC C4, Deputy DoN CIO, Deputy MARFORCBYER  
11 April 2012



# RULES





# Go TRIBE!!





# Deputy Commanders Roles/Responsibilities (Intel/C4)

**Cyberspace: A global domain within the information environment consisting of the interdependent network of information technology infrastructures, including the Internet, telecommunications networks, computer systems, and embedded processors and controllers. (CJCS CM-0363-08)**

## SCIENCE: OPERATE & DEFEND

- MCIENT
- Designated Approving Authority
- Compliance/Information Assurance
- Mission Assurance
- Network Operations
- Hunting
- Cyber Policy, Doctrine, and Training
- Computer Network Defense – Response Actions
- Operations and Exercise Support
- Active / Passive Defensive Resilience
- Reachback to the Supporting Element/ Assured Access to enable C2
- Provides mobile, secure, seamless, scalable communications
- Marine Corps Network Operations and Security Center
- CIO Responsibilities:
  1. Policy
  2. Leadership
  3. Process Improvement
  4. Strategic Planning
  5. Performance and Results Based Management
  6. Capital Planning and Investment Control
  7. Acquisition
  8. E-Government
  9. Information Security/Information Assurance
  10. Enterprise Architecture
  11. Technology Assessment

## ART: ATTACK & DEFEND

- Command & Control
- Cyber Policy, Doctrine, and Training
- Computer Network Defense – Response Actions
- Operations and Exercise Support
- Computer Network Attack (Title 10)
- Computer Network Exploitation (Title 10 & Title 50)
- National/Tactical SIGINT
- Marine Corps Intelligence Surveillance Reconnaissance Enterprise
- Cyber: Attack/Exploitation

...the Marine Corps will pursue efficiencies through automation, consolidation and standardization to ensure availability, reliability and security of cyber assets. *Gen Amos. 2012 Report to Congress on the Posture of the United States Marine Corps*

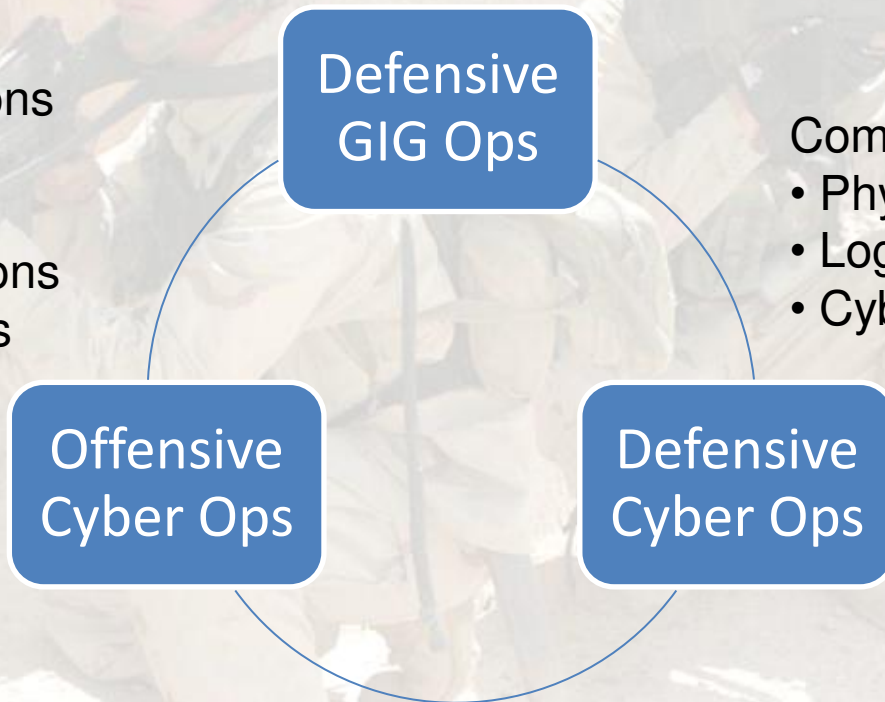


# Operationalize Cyberspace

Joint Force operations require the integration of cyberspace capabilities in the operational art and operational design processes of warfare.

Cyberspace Operations comprised of

- Military operations
- Intelligence operations
- Business operations



Components to Cyberspace

- Physical network
- Logical network
- Cyber-persona

Integration of cyberspace operations is the process by which the planning of these operations is merged to create coordinated effects in and through cyberspace as well as supporting operations in the other warfare domains.



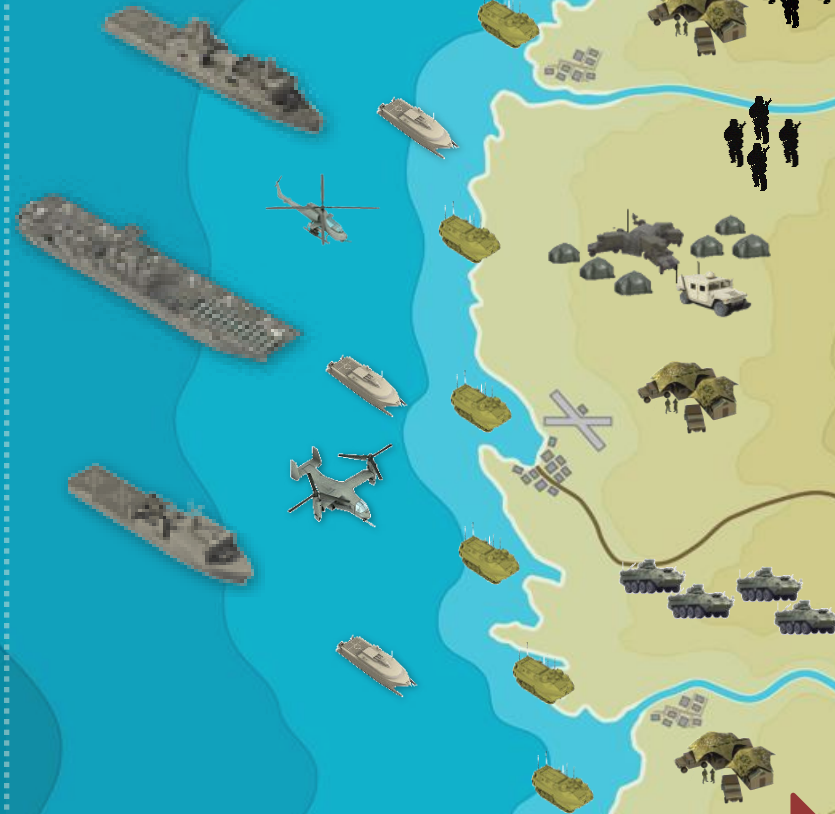
# Synchronized Littoral Communications



Joint Wide Area Network



Amphibious Wide Area Network



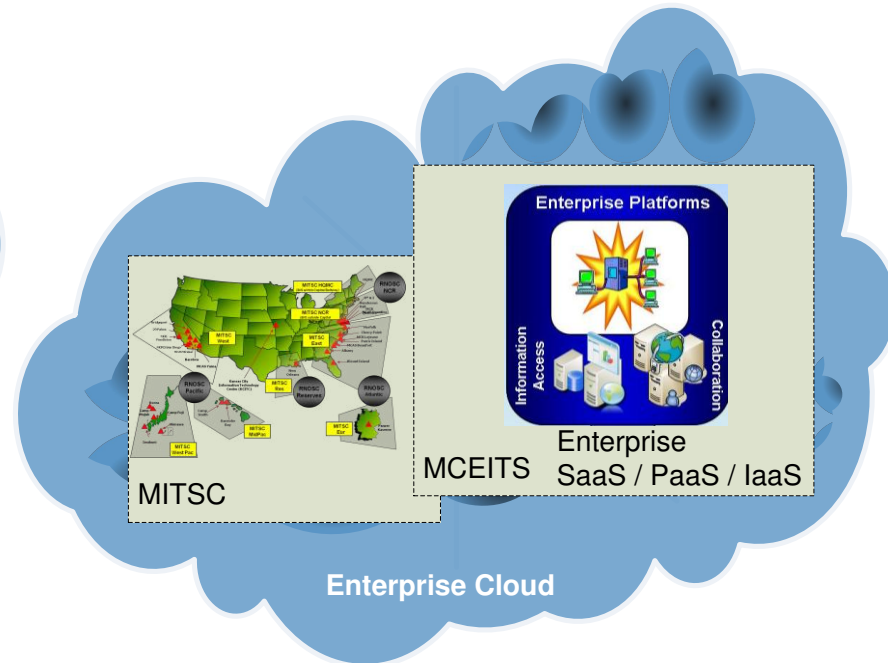
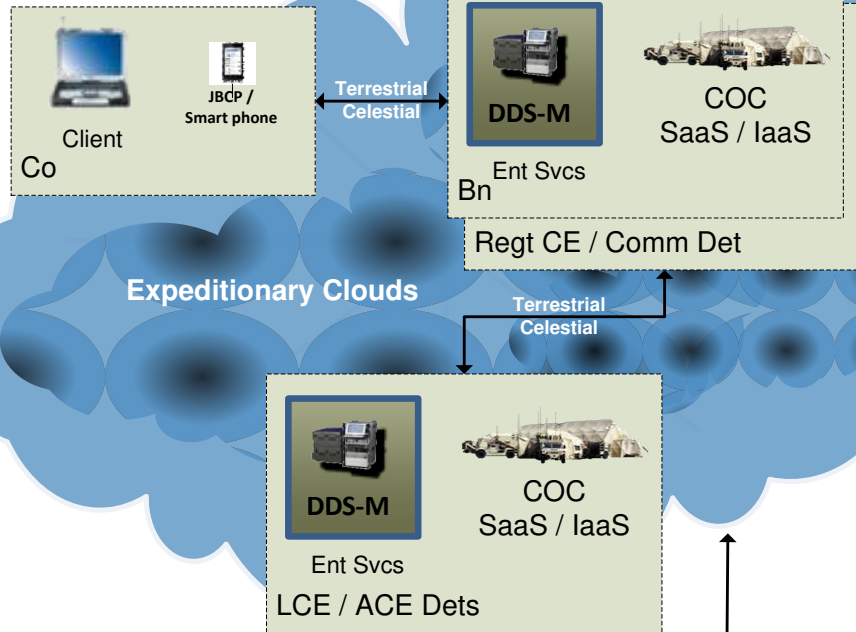
Littoral Maneuver Space

Cyberspace Ops / Inter Agency Ops / Joint Ops / Coalition Ops / SOF Ops

# Private Cloud Computing Environment

## WARFIGHTER

- Austere Environment
- Limited Infrastructure
- Mobile / Adaptable
- High Demand Signal



## SUPPORTING ESTABLISHMENT

- Base / Post / Station / Camp
- Robust Infrastructure
- Mobil Workforce

Marine Corps' private cloud provides enterprise services enabled by Marine Corps Programs of Record



# Mobility Strategy & Initiatives

## DoD Mobility Strategy

1. Advance the wireless infrastructure
2. Institute mobile device
3. Promote the development and use of mobile apps



## MCIENT Strategic Objectives

- (1) Improving reach back support and interoperability of our forward deployed forces
- (2) Leverage cloud computing and virtualization technologies where sensible
- (5) Employ and operate a flexible network that can adjust rapidly and dynamically to counter external and internal degradation and mission changes
- (10) Distribute enterprise services regionally and to forward deployed forces
- (13) Field systems with inherent IA controls



## USMC Initiatives

- DoN iOS Proof of Concept
- NOTM
- Secure Personal Area Network
- Trust H2 w/ Tactical Sleeve
- Mobile Secure Architecture
- Marine Air Wing Tablets
- MCEITS

