MARINE CORPS ORDER 3100.4

From: Commandant of the Marine Corps
To: Distribution List
Subj: CYBERSPACE OPERATIONS

Ref: (a) SECNAVINST 3052.2
(b) Global Force Management Implementation Guidance, FY 2012-2013, 15 Nov 2011
(c) Cyberspace Integration Group Charter, of 14 Jan 2011
(d) COMMARFOR CYBERCOM letter of 19 Sep 2011 establishing the Cyberspace Operational Advisory Group (NOTAL)
(e) Joint Publication 1-02, Department of Defense Dictionary of Military and Associated Terms
(f) MCO 5400.52
(g) MCO 3501.36A
(h) SECNAV M-5210.1
(j) SECNAVINST 5000.2E
(k) SECNAVINST 5400.15C
(l) MCO 5311.1D
(m) Marine Corps Information Enterprise Strategy, 14 Dec 2010

1. Situation

a. The Marine Corps depends on cyberspace to enable the successful execution of warfighting functions across the range of military operations and in the fulfillment of business practices. In order to retain freedom of action within cyberspace, the Marine Corps must develop and maintain robust capabilities to operate and defend the Marine Corps Information Enterprise. Additionally, the Marine Corps requires the capability to utilize cyberspace operations, in concert with other lines of operation, to identify, understand, influence, disrupt, attack, and defeat a wide range of adversaries.
b. This order supports joint and Department of the Navy (DoN) cyberspace operations policy and establishes the responsibilities and organizational relationships between the different organizations of the Marine Corps that provide cyberspace operations capabilities and support to the joint force, Marine Corps operating forces, and the Supporting Establishment.

c. Reference (a) provides DoN policy and responsibilities for the administration of cyberspace.

d. Reference (b) integrates force assignment, apportionment, and allocation processes to improve the Department of Defense’s (DoD) ability to manage forces from a global perspective.

e. Reference (c) outlines the Cyberspace Integration Group (CIG) purpose, membership, responsibilities, resolution procedures, and administration.

f. Reference (d) established the Cyberspace Operational Advisory Group (OAG) as an official forum to discuss and resolve issues affecting the Marine Corps ability to provide cyberspace operational support to Marine Corps and joint commanders.

g. Reference (e) promulgates approved DoD terminology.

h. Reference (f) promulgates the roles and responsibilities of the Marine Corps Chief Information Officer (CIO).

i. Reference (g) established the Marine Corps Critical Infrastructure Protection Program.

j. Reference (h) is the DoN Records Management Program which establishes policies and procedures for life-cycle management of DoN records.

k. Reference (i) promulgates the DoD policy for Defense Acquisition.

l. Reference (j) provides DoN policy and responsibilities for acquisition.

m. Reference (k) provides DoN policy and organizational responsibilities and authorities in research and development, acquisition, life-cycle management, and logistics within the USN and USMC.
n. Reference (1) provides policy and procedural guidance on the Total Force Structure Process.

o. Reference (m) provides top-level Information Enterprise objectives that inform future capability decisions, supporting plans, concepts, and programming initiatives.

p. This is a new order and should be read in its entirety.

q. Definitions

(1) Cyberspace. A global domain within the information environment consisting of the interdependent network of information technology infrastructures and resident data, including the Internet, telecommunications networks, computer systems, and embedded processors and controllers.

(2) Cyberspace Operations. The employment of cyberspace capabilities where the primary purpose is to achieve objectives in or through cyberspace, reference (e).

2. Mission. To promulgate policy, guidance, and organizational responsibilities for cyberspace operations within the Marine Corps.

3. Execution

a. Commander's Intent and Concept of Operations

(1) Commander's Intent. Organize, train, and equip the Marine Corps for mission success in cyberspace operations. The end state is a Marine Corps that can conduct full spectrum cyberspace operations, to include DoD Information Network Operations, Defensive Cyberspace Operations, and when directed, Offensive Cyberspace Operations in support of Marine Forces (MARFOR), MAGTF, Supporting Establishment, joint force, and combined operational requirements, in order to enable freedom of action across all warfighting domains while denying the same to adversaries.

(2) Concept of Operations. The Marine Corps will:

(a) Organize, train, equip, and provide Marine Corps cyberspace operations forces and capabilities to support joint and MAGTF operations as appropriate and in accordance with references (a) and (b).

(b) Individually, or in conjunction with other Services and government agencies; develop cyberspace operations
tactics, techniques, procedures (TTP) and equipment employable by Marine Corps forces.

(c) Develop and maintain a sufficient number of Marine Corps personnel who are experienced, trained, and knowledgeable of cyberspace operations in order to support the Marine Corps in capabilities requirements development, acquisition, planning, and operations.

(d) Educate and train Marine Corps leadership at all levels, in cyberspace operations concepts, capabilities, limitations, employment, and support request procedures.

b. Subordinate Element Missions

(1) Deputy Commandant, Plans, Policies, and Operations (DC, PP&O) shall:

(a) Serve as the advocate for cyberspace operations. Provide expert advice to the Commandant to develop the Marine Corps position on cyberspace operations issues and represent those positions and enabling capabilities that support Marine Corps operating forces and the Supporting Establishment.

(b) Serve as the Marine Corps representative and point of contact to the Office of the Secretary of Defense (OSD), Joint Staff, Services, Combatant Commands, and external agencies regarding policy matters.

(c) Coordinate the assignment of personnel to serve as members or observers on commissions, boards, advisory groups, or committees external to the Marine Corps that require Marine Corps representation on policy matters.

(d) Monitor and participate in liaison with OSD, Joint Staff, Services, external agencies, private industry, and academia involving the exchange of information pursuant to improving cyberspace operations capabilities.

(e) Coordinate with other Marine Corps departments and Marine Corps Systems Command (MARCORSYSCOM) on cyberspace operations policy and programs.

(f) Ensure Marine Corps equities are considered in the development of joint or allied cyberspace operations policy.

(g) Provide permanent membership to the CIG in accordance with reference (c).
(h) Provide a permanent member to the Cyberspace OAG in accordance with reference (d).

(i) Ensure that law enforcement mechanisms for cyberspace operations are in place in accordance with reference (a).

(j) Oversee, manage, and conduct the periodic identification, prioritization and assessment of cyberspace assets and infrastructure critical to the execution of Marine Corps missions, capabilities, and core functions.

(2) Deputy Commandant, Combat Development & Integration (DC, CD&I) shall:

(a) Conduct all combat development activities for the execution of cyberspace operations within the context of the Marine Corps Force Development System (MCFDS).

(b) Coordinate the assignment of personnel to serve as members or observers on commissions, boards, advisory groups, or committees external to the Marine Corps that require Marine Corps representation on cyberspace operations capability requirements or integration matters.

(c) Develop and publish cyberspace operations capability requirements, concepts, studies, doctrine, and TTPs.

(d) Conduct mission area analyses for all assigned cyberspace operations mission areas and ensure relevant Marine Corps cyber capabilities are included in appropriate simulations, models, and exercises.

(e) Identify and validate cyberspace operations capability requirements and establish necessary changes to Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel, and Facilities.

(f) Establish priorities for acquisition of cyberspace operations-related equipment and work collaboratively with MARCORSYSCOM to integrate and develop cyberspace capabilities within the MCFDS.

(g) Chair the Cyberspace OAG in accordance with reference (d).

(h) Establish and maintain cyberspace operations doctrine and concepts and ensure implementation in applicable Marine Corps training programs.
(i) Through Commanding General Training and Education Command, and in coordination with applicable occupational field (OccFld) managers, ensure adequate cyberspace operations instruction is provided by Marine Corps Service Schools to include lessons provided through the Marine Corps Institute. This includes the identification of Military Occupational Specialty (MOS) and billet requirements for cyberspace operations instructors to support those programs.

(j) Advocate for the inclusion of adequate instruction and formal training in all aspects of cyberspace operations in the curricula of other Service and joint formal schools.

(3) Deputy Commandant, Installations and Logistics (DC, I&L) shall:

(a) Conduct Marine Corps Installation, Facilities, and Logistics management and analysis for cyberspace operations.

(b) Develop and publish Marine Corps installations, facilities, and logistics policy and procedures for cyberspace operations.

(c) Coordinate with Marine Corps departments, Naval Facilities Engineering Command, and United States Army Corps of Engineers on cyberspace operations requirements for installations and facilities.

(d) Coordinate the assignment of personnel to serve as members or observers on commissions, boards, advisory groups, or committees that require Marine Corps I&L representation for cyberspace fiscal management, program management, and logistics management requirements.

(e) Through the Commanding General, Marine Corps Installations Command coordinate assigned Marine Corps cyberspace operations and maintenance activities.

(f) Through the Commanding General, Marine Corps Logistics Command coordinate assigned Marine Corps cyberspace operations logistics activities.

(g) Provide a permanent member to the Cyberspace OAG.

(h) Conduct installations infrastructure and facilities inspections supporting cyberspace operations.
(i) Ensure all installation commanders' Tables of Organization (T/O) are appropriately structured and staffed to facilitate installation information transport, services operations, and required cyberspace operations.

(4) Director, Command, Control, Communications, and Computers (C4) shall:

(a) In coordination with MARFORCYBER, PP&O, CD&I, I&L, and MARCORSYSCOM develop strategies and plans to provide a single, disciplined Marine Corps Information Enterprise that provides commanders and staffs the ability to conduct operations through shared, secured, reliable environments in accordance with references (f) and (m).

(b) As the Marine Corps CIO, provide Information Technology (IT) capital planning and portfolio management, develop and manage an IT architecture and workforce, and provide leadership and governance of IT activities for the Marine Corps in accordance with reference (f).

(c) Advise DC, PP&O, DC I&L, DC, CD&I, and other Marine Corps agencies/commands on C4 positions with respect to cyberspace operations capabilities, systems, planning, programming, and policy.

(d) Coordinate with PP&O, Security Division, MARCORSYSCOM, MARFORs, and Marine Corps Installations Command for the assessment of Marine Corps critical C4 systems, assets, and infrastructure in accordance with reference (g).

(e) Conduct planning for redundant architecture that enables the remediation, mitigation, and assurance of critical C4 systems, assets, and infrastructure, so that a minimum essential level of command and control functions can be maintained and sustained.

(f) Provide a permanent member to the Cyberspace OAG in accordance with reference (d).

(g) Manage all OccFld 06, Communications, and OccFld 28, Communications-Electronics Maintenance MOS matters in accordance with reference (l). Ensure applicable T/O are appropriately structured and staffed to facilitate required information network and defensive cyberspace operations.

(h) Review and assess all computer and software procurement requests as the Marine Corps Information Technology Expenditure Approval Authority.
(i) In coordination with CD&I, I&L, Programs and Resources (P&R), MARCORSYSCOM, and MARFORS, and in accordance with reference (i), (j), and (k), ensure appropriate validation, acquisition expenditures, integration, maintenance, and allocation of critical C4 systems, assets, and infrastructure capabilities and resources are sufficient to meet Marine operating forces' and garrison commander's cyberspace operational requirements.

(j) Assign members to appropriate commissions, boards, advisory panels, or committees external and internal to the Marine Corps that require subject matter expertise to include IT, enabling capabilities, cybersecurity, and spectrum management.

(5) Director, Intelligence (DIRINT) shall:

(a) Develop plans and policy for the conduct of intelligence and counterintelligence activities in support of cyberspace operations in concert with Under Secretary of Defense for Intelligence, Office of the Director of National Intelligence, and joint intelligence plans and policy, while affording Marine Corps operating forces and garrison commanders, to the greatest extent possible, the authority to conduct intelligence, surveillance, and reconnaissance (ISR) operations in and through cyberspace.

(b) Support the review and validation of operational requirements and associated capabilities that relate to ISR capabilities that operate in and through cyberspace.

(c) Direct the strategic efforts within the Marine Corps ISR-Enterprise to ensure intelligence personnel and ISR systems are capable of supporting and executing operations in and through cyberspace.

(d) In coordination with CD&I, I&L, and P&R review applicable Planning, Programming, and Budgeting System (PPBS) documentation and implementation on appropriate Marine Corps ISR systems that support cyberspace operations.

(e) Assign members to appropriate commissions, boards, advisory panels, or committees external and internal to the Marine Corps that require representation from DIRINT on ISR and cryptologic policy, systems, personnel, training, operations and tactics to support cyberspace operations.

(f) In coordination with CD&I, I&L, P&R, MARCORSYSCOM, and the National Security Agency, ensure
appropriate validation, acquisition, expenditures, integration, maintenance, and allocation of ISR capabilities and resources are sufficient to meet Marine Corps operating forces' and garrison commanders' cyberspace operations requirements.

(g) Manage all OccFld 26, Signals Intelligence/Ground Electronic Warfare, and OccFld 02, Intelligence, MOS matters as they relate to cyberspace operations in accordance with reference (1).

(h) Ensure applicable T/O are appropriately structured and staffed to facilitate Intelligence and Signals Intelligence capabilities and cyberspace operations.

(i) Provide a permanent member to the Cyberspace OAG in accordance with reference (d).

(j) Ensure that counterintelligence mechanisms for cyberspace operations are in place in accordance with reference (a).

6 Commander, Marine Corps Systems Command (COMMARCORSYSCOM) shall:

(a) Conduct research, development, and acquisition activities to satisfy requirements validated by the Marine Requirements Oversight Council for cyberspace operations capabilities.

(b) In coordination with C4, identify, research, and evaluate potentially useful new technologies and advise CD&I, Intel, and PP&O of new or improved cyberspace operations capabilities that may be achievable through the development, enhancement, and exploitation of those technologies.

(c) Provide technical support for the development of capability requirements documents.

(d) Provide technical support for assessing cyberspace operations Urgent-Universal Need Statements identified through the Urgent Needs Process.

(e) Provide a permanent member to the Cyberspace OAG in accordance with reference (d).

(f) Provide technical authority, engineering, configuration management and lifecycle support for cyberspace operations equipment and services in accordance with reference (k).
(7) Commander, U.S. Marine Corps Forces Cyber Command (COMMARFORCYBERCOM) shall:

(a) Serve as the Marine Corps Service Component to United States Cyber Command (USCYBERCOM).

(b) Advise USCYBERCOM on the proper employment and support of Marine Corps Forces.

(c) Coordinate deployment, employment, and redeployment planning and execution of attached forces.

(d) Conduct full spectrum cyberspace operations to include DoD Information Network Operations, Defensive Cyberspace Operations, and when directed, Offensive Cyberspace Operations in support of USCYBERCOM.

(e) Conduct joint and combined training for cyberspace operations.

(f) Identify operational requirements for organizing, training, and equipping Marine Corps forces in support of USCYBERCOM.

(g) Develop program and budget requests to comply with USCYBERCOM guidance on warfighting requirements and priorities.

(h) Provide a permanent member to the Cyberspace OAG in accordance with reference (d).

(8) Commanders, MARFOR, Commanding Generals, Marine Expeditionary Forces, and Marine Corps Installations shall:

(a) Establish and maintain staff expertise capable of planning and exercising command and control of cyberspace operations. Identify gaps in capability to the Cyberspace OAG for resolution within existing processes.

(b) As appropriate, incorporate cyberspace operations into training and exercises.

(c) Include realistic scenarios for operating under degraded cyberspace conditions into existing exercise programs.

(d) Provide a permanent member to the Cyberspace OAG.
(9) Task common to all subordinate elements: Support the MCFDS, doctrine development, policy development, the Total Force Structure Process and the Joint Capabilities Integration and Development System process as required.

4. Administration and Logistics

a. Submit recommended changes to this order, with complete justification, to Commandant of the Marine Corps (PP&O/PLI), via the chain of command.

b. Records created as a result of this order shall be managed according to National Archives and Records Administration approved dispositions per reference (h) to ensure proper maintenance, use, accessibility and preservation, regardless of format or medium.

5. Command and Signal

a. Command. This order is applicable to the Marine Corps Total Force.

b. Signal. This order is effective the date signed.

[Signature]
R. L. BAILEY
Deputy Commandant
Plans, Policies, and Operations

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