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MARINE CORPS ORDER 3090.2

From: Commandant of the Marine Corps  
To: Distribution List

Subj: POLICY FOR MARINE AIR GROUND TASK FORCE (MAGTF) COMMAND  
AND CONTROL (C2) INTEGRATION AND INTEROPERABILITY

Ref: (a) MROC Decision Memorandum 29-2005, February 24, 2005  
(b) CJCSI 6212.01F, "Net Ready Key Performance Parameter"  
(NR KPP)  
(c) SECNAVINST 5000.2E  
(d) SECNAVINST 5000.36A  
(e) MCO 5400.52  
(f) MARADMIN 253-11  
(g) CMC Policy Memorandum 01-10, "Advocacy", July 15, 2010  
(h) MCO 3900.15B  
(i) MCO 5231.3  
(j) MAGTF C2 Concept of Operations, January 9, 2007  
(k) MAGTF C2 Initial Capability Document, February 26,  
2008  
(l) SECNAV M-5210.1

Encl: (1) Definitions and Descriptions  
(2) Glossary of Terms

1. Situation

a. Since 2005, MAGTF C2 is the Marine Corps strategy for designing, developing and fielding C2 capabilities for the MAGTF as documented in reference (a). However, the Marine Corps is not acquiring all MAGTF C2 systems through a coordinated development and acquisition process. Additionally, not all MAGTF C2 systems are being used as intended at their inception and not all MAGTF C2 systems find themselves used among the planned interface partners. To provide improved C2 capabilities to the Operating Forces, improved processes involving all stakeholders must be developed to enable the Marine Corps to evolve to the envisioned objective MAGTF C2.

b. The Marine Corps requires a synchronized and cohesive governance process to provide an integrated and interoperable MAGTF C2 capability to the Operating Forces as described in the references.

c. Individual MAGTF C2 systems must be developed, tested, and certified as part of the MAGTF C2 System of Systems (SoS). When

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coupled with updated tactics, techniques and procedures (TTPs, and training, MAGTF C2 systems will be delivered as interoperable capability sets to the Operating Forces.

2. Cancellation. MCO 3093.1C.

3. Mission

a. The purpose of this Order is to define roles and responsibilities that will support a single integrated process for implementing MAGTF C2 with the Deputy Commandant for Combat Development and Integration (DC CD&I) as the integrator through the force development process to better influence capability development, investment, acquisition, testing, fielding, and training. This Order clarifies the relationship between policy makers, capability developers, acquisition and testing professionals, and the training communities for MAGTF C2 and the MAGTF C2 SoS. The scope of this Order is limited to MAGTF C2 and to those systems that enable C2 MAGTF operations. The Marine Corps Sensitive Compartmented Information (SCI) enterprise architecture is the responsibility of the Director, Intelligence and is not within the scope of this Order. The overarching theme is one of alignment and synchronization of integrated processes that deliver interoperable systems for holistic MAGTF C2 capabilities.

b. Amplifying information regarding the references is as follows:

(1) Reference (a) is the Marine Corps Requirements Oversight Council (MROC) Decision Memorandum approving the MAGTF C2 Strategy, mandating the establishment of a MAGTF C2 Transformation Task Force (TTF) under DC CD&I and directing development of a MAGTF C2 Concept of Operations (CONOPS).

(2) Reference (b) establishes policy and procedures to develop the Net Ready Key Performance Parameter (NR KPP) and NR KPP certification requirements for all IT and NSS. This Order is not intended to provide implementation instructions for the NR KPP in accordance with reference (b).

(3) Reference (c) establishes the Department of the Navy (DON) policy for the capabilities and acquisition communities to implement the Joint Capabilities Integration and Development Systems (JCIDS) process and the Gate Review process.

(4) Reference (d) establishes the DON overarching policy for DON applications and data management and the roles and responsibilities for the development, execution and maintenance of DON IT processes and tools to transform applications and data into net-centric Naval capabilities consistent with Department of Defense (DOD) policy for interoperability and data sharing. This reference also assigns responsibility to Marine Corps organizations as Functional Area Managers (FAMs).

(5) Reference (e) addresses the activities performed by the Director, Command, Control, Computers and Communications (C4) fulfilling the functions of the Chief Information Officer (CIO) Marine Corps.

(6) Reference (f) details the roles and responsibilities of FAMS within the Marine Corps and amplifies reference (d).

(7) Reference (g) establishes the roles and responsibilities of advocates, and directs advocates to assist their respective element(s) in identifying capabilities, deficiencies, and issues and ensuring they are advanced through the various processes within the Marine Corps and the DON.

(8) Reference (h) is the Marine Corps EFDS Order that is used to develop future warfighting capabilities to meet national security objectives.

(9) Reference (i) is the Marine Corps Data Strategy that promulgates policy for data production, data storage and data replication, data/information exchange, participation in (Net-Centric Data Strategy (NCDS), Communities of Interest (COIs), registration of Authoritative Data Sources (ADS), and database registration.

(10) Reference (j) is the Joint Requirements Oversight Council (JROC) approved MAGTF C2 CONOPS that expands on reference (h) by stating that MAGTF C2 includes both C2 and Network/Communications Systems that provide "end-to-end, fully, integrated, cross-functional, reach back as well as deployed set of C2 capabilities." Reference (j) defines MAGTF C2 as a "strategy, a process and ultimately a system of systems...".

(11) Reference (k) is the approved MAGTF C2 Initial Capabilities Document that documents capability gaps and capability descriptions and quantifies which MAGTF C2 systems will be fielded as interoperable capability sets to the Operating Forces in support of Joint operations.

(12) Reference (l) is the Secretary of the Navy's Manual for the creation, maintenance, and disposition of official records within the Department of the Navy.

#### 4. Execution

##### a. Commander's Intent and Concept of Operations

(1) Commander's Intent. This Order defines roles and responsibilities of an integrated process that will support the development and certification of interoperable systems to realize MAGTF C2 capabilities. It is focused specifically on the C2 functional area, and the relationships of advocates impacting the C2 functional area as identified in reference (g). This requires clearly

delineated and defined roles and responsibilities for the many stakeholders that impact the development and fielding of MAGTF C2 to the operating forces. The stakeholders and processes that require integration fall into the five broad areas: policy, capability requirements, acquisition, test and certification, and training. Information sharing and synchronization between the stakeholders described in this Order must be consistent, continuous, and repeatable to fully realize MAGTF C2 capabilities.

(2) Concept of Operations. Processes must be established that align and integrate activities that impact the development of interoperable MAGTF C2 systems. DC CD&I will lead the development of these integrated processes as the MAGTF Command Element Advocate, as the functional advocate for C2, and as the FAM for C2. There is a direct relationship between the role of advocates looking at the full spectrum of Doctrine, Organization, Training, Material, Leadership and Education, Personnel, and Facilities (DOTMLPF) issues with stakeholders in a specific area as identified in reference (g) and the acquisition and budgeting responsibilities as a FAM as identified in references (d), (e), and (f). MAGTF C2 consists of all systems that support MAGTF decision makers, including not only traditionally defined C2 systems but also other systems such as some logistics systems and intelligence systems. Since the systems that make up MAGTF C2 fall across all of the advocates and FAM portfolios, a process that aligns decisions across portfolios must be established. DC CD&I will establish an integrated process for policy review and coordination aligning policy decisions and capabilities guidance considered by each advocate/FAM that will impact the future MAGTF C2 capabilities.

(a) Improved integration of existing processes that better identify the issues the Operating Force have with their C2 capabilities must be implemented. Establishing a more integrated and responsive exchange of information between the Operating Forces and the supporting establishment is essential for more timely, interoperable, and cost effective improvements to our MAGTF C2 system capabilities. The organizational structure and the relationship of many existing boards, advisory groups, and other forums informed by the Operating Forces that influence and inform policy decisions are depicted in Figure 1. Abbreviations used in Figure 1 are contained in enclosure (2), Glossary of Terms.

(b) The organizational structure depicted in Figure 1 represents the existing integrated construct specifically for aligning MAGTF C2 capabilities with Operating Force engagement through the Operational Advisory Groups (OAGs) established by the MAGTF Advocates. The MAGTF C2 TTF coordinates with these OAGs on matters related to C2 and addresses issues of concern to the Command Element Advocate Board (CEAB) and the Marine Requirements Oversight Council (MROC) as required. Advocates guide their Boards and OAGs and utilize the MAGTF C2 TTF and its supporting Cross Functional Teams (CFTs) as a conduit to the CEAB to influence and inform capability development, Program

Objective Memorandum (POM), and acquisition processes for MAGTF C2. Timing of the outputs of the OAGs relative to capability development and C2 interoperability is more important than the timing of the OAGs themselves; however alignment of both wherever possible is preferred.

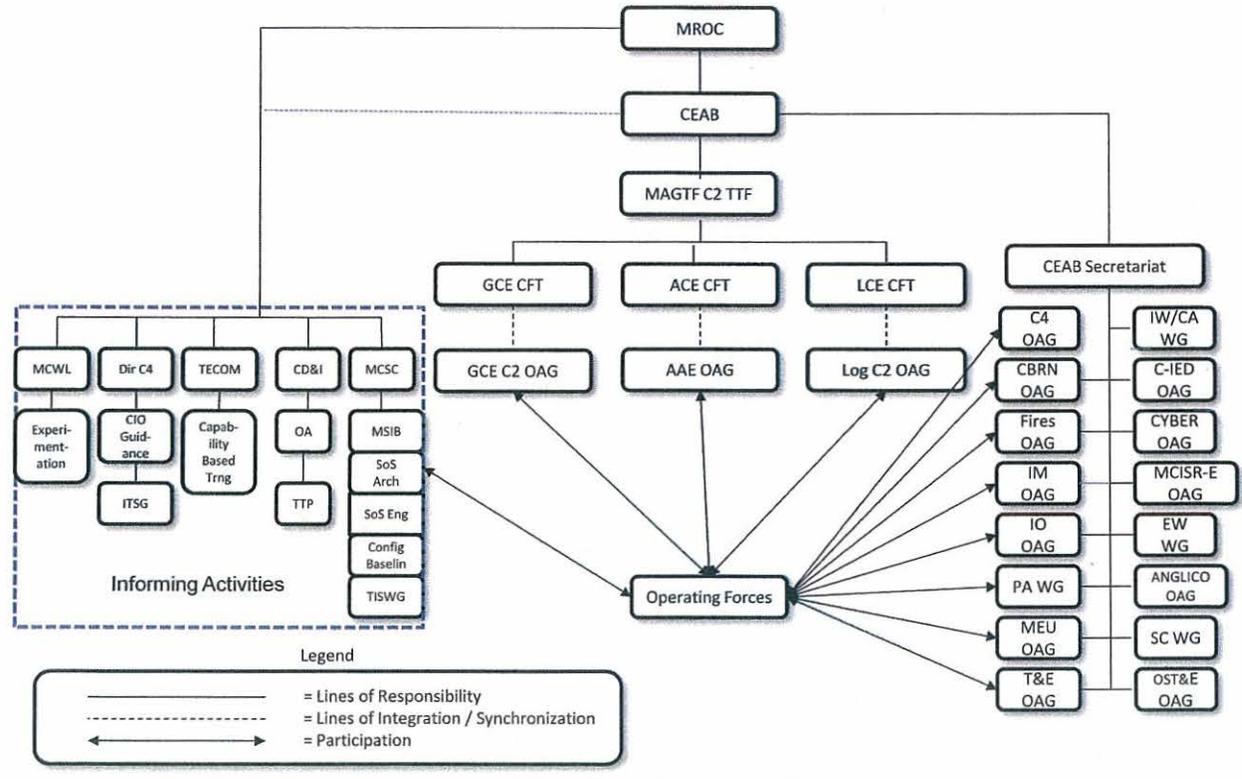


Figure 1.--Organizational Structure of MAGTF C2 Integration Forums

(c) FAMS are organizations responsible for development and management of systems, application and database portfolios used to support the processes within that functional area. While the roles of advocates and FAMS may appear duplicative, the roles and responsibilities differ. FAMS are guided in their duties by references (d) and (f).

(d) A process will be established to conduct Service-level testing of MAGTF C2 Systems and certification of MAGTF C2 capability sets. The objective of this process will be to document and identify the performance, capabilities, and limitations of MAGTF C2 systems provided to the Operating Forces. The process will describe for the Operating Forces the capabilities and limitations of the MAGTF C2 systems when configured as designed and suggested by Marine Corps System Command (MCSC) and will support the force development process in making informed decisions regarding capabilities development and investment decisions. This Marine Corps testing and certification process will support the Joint certification process identified in reference (b). This testing is separate and distinct from the Title

10 responsibility to conduct operational test and evaluation of material systems which remain the responsibility of the Marine Corps Operational Test and Evaluation Activity (MCOTEA).

(e) Several of the references assign responsibilities for IT and NSS. IT and NSS responsibilities in references (b) through (e) addressed in this Order are defined for the Marine Corps as MAGTF C2 systems. The definitions and descriptions of these terms are included in enclosure (1).

b. Subordinate Element Missions

(1) Marine Requirements Oversight Council (MROC). Endorse the prioritization of the capabilities and capability gaps of the MAGTF C2 SoS. Prioritize the resources needed to realize those capabilities and the training to effectively employ them. Approve the JCIDS documents developed by DC CD&I that enable the capabilities of the MAGTF C2.

(2) DC CD&I

(a) Establish an integrated process for C2 policy review and coordination aligning policy decisions and C2 capabilities guidance considered by each advocate/FAM that will impact the MAGTF C2 capabilities, to include C2 enabling capabilities.

(b) In conjunction with the CEAB, resource and use the MAGTF C2 TTF as the primary forum for engaging all stakeholders in evaluating MAGTF C2 capability development and integration through the DOTMLPF framework.

(c) In accordance with reference (h), prioritize C2 capabilities and gaps, develop MAGTF C2 capabilities documentation and coordinate requirements across the warfighting and business functions of the Marine Corps.

(d) As the Operational Architect for the Marine Corps, develop the operational architectural products to support development of interoperable MAGTF C2 systems. Develop and maintain Marine Corps mission threads to support the capability and limitation assessments of MAGTF C2 systems configurations.

(e) Develop the concepts of operations, concepts of employment, doctrine, and TTPs that will be the basis for employing the MAGTF C2 systems in Joint and Coalition operations, and the foundation for training the Operating Forces on the MAGTF C2 systems.

(f) Support MCSC in the establishment of a Service level system of systems testing and certification process for all systems used to provide or enable MAGTF C2 capabilities.

(g) Establish and support the organizational relationships identified in Figure 1.

(3) Deputy Commandant for Plans, Policy, & Operations (DC PP&O)

(a) As the Ground Combat Element (GCE) Advocate and Information Operations and Readiness FAM, support the DC CD&I integrated process for C2 policy review and coordination in order to align GCE C2 policy decisions and C2 capabilities guidance relative to the GCE.

(b) As the Operations Officer to the Commandant of the Marine Corps (CMC), coordinate with Regional Combatant Commanders and Marine Forces commanders to determine the employment requirements of the fielded MAGTF C2 systems.

(c) Support the MAGTF C2 TTF as the primary forum for engaging all stakeholders in evaluating MAGTF C2 capability development and integration through the DOTMLPF framework. Support the organizational relationships identified in Figure 1.

(d) Perform as the USMC principal representative to the Army Marine Corps Board to ensure that the Army and Marine Corps remain interoperable to the maximum extent possible.

(4) Deputy Commandant for Aviation (DC A)

(a) As the Aviation Combat Element (ACE) Advocate, support the DC CD&I integrated process for policy review and coordination in order to align aviation C2 policy decisions and capabilities guidance relative to the aviation combat element.

(b) Support the MAGTF C2 TTF as the primary forum for engaging all stakeholders in evaluating MAGTF C2 capability development and integration through the DOTMLPF framework. Support the organizational relationships identified in Figure 1.

(c) Facilitate the coordination between Naval Air Systems Command (NAVAIR) and Marine Corps Systems Command (MCSC) to ensure Naval aviation platforms are designed to be interoperable with the objective MAGTF C2 systems.

(5) Deputy Commandant for Installations and Logistics (DC I&L)

(a) As the Logistics Combat Element (LCE) Advocate/Logistics FAM, support the DC CD&I in an integrated process for C2 policy review and coordination in order to align logistics C2 policy decisions and C2 capabilities guidance relative to LCE.

(b) Support the MAGTF C2 TTF as the primary forum for engaging all stakeholders in evaluating MAGTF C2 capability

development and integration through the DOTMLPF framework. Support the organizational relationships identified in Figure 1.

(6) Deputy Commandant for Programs and Resources (DC P&R). Utilizing established processes, ensure the integration processes and activities identified in this Order compete for resourcing as prioritized by DC CD&I and endorsed by the MROC.

(7) Director, Command, Control, Computers and Communications/Deputy DON Chief Information Officer (CIO) Marine Corps (Dir C4/DDCIO (MC))

(a) Assist DC CD&I and Commander, MCSC in developing and validating the Marine Corps assessment metrics that support capabilities and limitations assessments of MAGTF C2 system configurations.

(b) As the DDCIO (MC), develop IT policy, strategic direction, guidance and standards.

(c) Provide support to Deputy Commandants, Directors, and Commanders in managing their functional area portfolios. Coordinate the development and normalization of IT management processes, develop reporting requirements, and coordinate the integration of the IT portfolio management construct into existing capabilities, acquisitions, and funding processes.

(d) Chair the IT Steering Group (ITSG) as the forum for aligning Marine Corps IT systems with the acquisition community and resource prioritization.

(e) Continue as the functional proponent responsible for the services, networks, and transmission components of the MAGTF C2 Capability Model detailed in reference (j). Continue to execute the policy responsibilities for data and messaging standards implementation, to include management and exposure of USMC authoritative data in accordance with reference (i). As the Enterprise Services FAM, support DC CD&I in an integrated process for policy review and coordination in order to align policy decisions and capabilities guidance relative to C2 capabilities provided by services, networks, transmission systems, and standards implementation as they will impact the objective MAGTF C2 capabilities.

(f) As Chief Enterprise Architect, publish and maintain the Marine Corps Enterprise Architecture. Assist, as required, in the development of MAGTF C2 SoS segment architectures.

(g) Support the MAGTF C2 TTF as the primary forum for engaging all stakeholders in evaluating MAGTF C2 capability development and integration through the DOTMLPF framework. Support the organizational relationships identified in Figure 1.

(8) Director, Intelligence (Dir Int)

(a) As the Intelligence Advocate/FAM, support the DC CD&I integrated process for policy review and coordination in order to align policy decisions and capabilities guidance relative to Intelligence systems capabilities as they will impact the objective MAGTF C2 capabilities.

(b) Support the MAGTF C2 TTF as the primary forum for engaging all stakeholders in evaluating MAGTF C2 capability development and integration through the DOTMLPF framework. Support the organizational relationships identified in Figure 1.

(9) Commander, MCSC

(a) Perform duties as the Senior Acquisition Authority in accordance with reference (c), as well as duties as the Chief Engineer, the Systems Architect, and Technical Authority for the Marine Corps. Manage the development, capability configuration, accreditation, fielding, and life cycle sustainment of programs making up MAGTF C2 to achieve desired prioritized capabilities.

(b) Charter the MAGTF Systems Integration Board (MSIB) as the engineering and acquisition counterpart to the MAGTF C2 TTF.

(c) Establish supporting processes to conduct joint interoperability certification and ensure compliance with NR KPP certification requirements for MAGTF C2 systems in accordance with reference (b).

(d) Conduct on-going MAGTF SoS engineering analysis to develop and maintain the engineering documentation and architecture products on MAGTF C2 systems in support of top-level systems engineering and integration resource prioritization, and the development, synchronization, and testing of its constituent systems.

(e) Establish a Service level end-to-end testing and certification process in conjunction with DC CD&I for MAGTF C2 systems. This process will ensure that MAGTF C2 systems capabilities and limitations are documented for the Operating Forces and are used in aligning acquisition activities. It will also inform the evolution of capabilities and the identification of gaps, and can be used to prioritize the continued development and resourcing of the evolution of the MAGTF C2 SoS.

(f) Coordinate with the Chief Engineer, NAVAIR, to achieve integrated aviation-ground capabilities for the MAGTF. Coordinate with the Chief Engineer, Naval Sea Systems Command (NAVSEA), to achieve integrated amphibious capabilities for the naval force.

(g) Represent the Marine Corps in appropriate Joint and Coalition testing forums to ensure developing MAGTF C2 capabilities are tested to meet Joint and Coalition requirements.

(h) Support the MAGTF C2 TTF as the primary forum for engaging all stakeholders in evaluating MAGTF C2 capability development and integration through the DOTMLPF framework. Support the organizational relationships identified in Figure 1.

(10) Program Executive Office Land Systems (PEO LS). Support the MAGTF C2 TTF as the primary forum for engaging all stakeholders in evaluating MAGTF C2 capability development and integration through the DOTMLPF framework. Support the organizational relationships identified in Figure 1.

(11) Commanding General, Training and Education Command (TECOM)

(a) Develop and maintain C2 Systems and Battle Staff Training instruction for the Operating Forces. Ensure that the programs of instruction remain relevant and current as the MAGTF C2 concepts of operation/employment, doctrine and TTPs evolve.

(b) Participate in MAGTF C2 capability development and acquisition processes to ensure training and education requirements are appropriately addressed.

(c) Support the MAGTF C2 TTF as the primary forum for engaging all stakeholders in evaluating MAGTF C2 capability development and integration through the DOTMLPF framework. Support the organizational relationships identified in Figure 1.

(12) Commanding General, Marine Corps Warfighting Laboratory (MCWL)

(a) Inform capability requirements through the conduct of concept-based experimentation, by investigating C2 capability gaps presented through the MCFDS process.

(b) In accordance with reference (h), incorporate appropriate capability gaps into the USMC Science and Technology (S&T) Strategic Plan (articulated as Science & Technology Objectives (STO)) and monitor USMC S&T investment (6.2 and 6.3 funds) into maturing relevant technologies towards material solutions.

### c. Coordinating Instructions

(1) Capability requirements. As policies for the MAGTF C2 SoS are established, they must be used to inform and update established and future capabilities expected by the respective Advocates, and identified in capability documents for the programs making up the MAGTF C2 SoS. The changes required by those policy decisions must be

implemented across the DOTMLPF continuum for the MAGTF C2 SoS as well, and become the basis for investment priorities in MAGTF C2 capabilities.

(2) Training. The complex nature of MAGTF C2 SoS requires the development of a deliberate C2 training continuum that is founded upon the building block approach to training. This training continuum shall address training for individual operators, systems administrators, Combat Operations Center watch standers, senior staff members, and commanders. Gaining this level of understanding demands C2 training and education that is readily available to local commanders at home station, minimizes time away from the parent unit, leverages existing educational technologies, and promotes staff training. Effective individual and collective C2 training supports and enables a critical and cross-cutting warfighting function and is a basic and enduring capability that must be actively addressed across every level of the MAGTF.

(3) Acquisition. With policies for the MAGTF C2 SoS implemented, capabilities for the SoS identified, and a training continuum for the SoS established, the acquisition community must determine what can be programmatically and technically delivered in a cost effective and timely manner in developing and fielding an interoperable MAGTF C2 SoS.

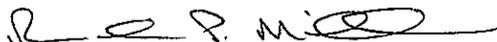
(4) Key integration and interoperability definitions and descriptions are contained in enclosure (1).

5. Administration and Logistics. Recommendations for changes to this Order shall be submitted to DC CD&I via the appropriate chain of command. Records created as a result of this Order shall be managed according to National Archives and Records Administration approved dispositions per reference (1) to ensure proper maintenance, use, accessibility and preservation, regardless of format or medium.

6. Command and Signal

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

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



RICHARD P. MILLS  
Deputy Commandant for Combat  
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## Definitions and Descriptions

Definitions are provided for clarity. Descriptions are provided for definitions where appropriate for context and understanding.

**Architecture.** A framework or structure that portrays relationships among the subject force, system, or activity. (JP 1-02 & JP 3-05)

**Capability.** The ability to execute a specified course of action. (A capability may or may not be accompanied by an intention). (CJCSI 3170.01H and JP 1-02)

**Command.** The authority that a commander in the armed forces lawfully exercises over subordinates by virtue of rank or assignment. Command includes the authority and responsibility for effectively using available resources and for planning the employment of, organizing, directing, coordinating, and controlling military forces for the accomplishment of assigned missions. It also includes responsibility for health, welfare, morale, and discipline of assigned personnel. (JP 1-02)

**Command and Control (C2).** The exercise of authority and direction by a properly designated commander over assigned and attached forces in the accomplishment of the mission. Command and control functions are performed through an arrangement of personnel, equipment, communications, facilities, and procedures employed by a commander in planning, directing, coordinating, and controlling forces and operations in the accomplishment of the mission. Also called C2. (JP 1-02)

**Command and Control (C2) System.** The facilities, equipment, communications, procedures, and personnel essential to a commander for planning, directing, and controlling operations of assigned and attached forces pursuant to the missions assigned. (JP 1-02 & JP 6-0)

**Concept of Employment (COE).** A statement that portrays how a user may employ a system under development while conducting a mission. The COE typically provides a system description and addresses operational employment, platform applications, and associated command and control considerations for the system. (MCOTEA Operational Test & Evaluation Manual (version 1.1))

**Enterprise Architectures.** A strategic information asset base, which defines the mission, the information necessary to perform the mission, the technologies necessary to perform the mission, and the transitional processes for implementing new technologies in response to changing mission needs. (DODAF Version 2.0)

**Family of Systems (FoS).** A family of systems (FoS) is defined as a set of systems that provide similar capabilities through different approaches to achieve similar or complementary effects.

This definition is included for completeness. FoS are fundamentally different from SoS. A family of systems lacks the synergy of a system of systems. The family of systems does not acquire qualitatively new properties as a result of the grouping. In fact, the member systems may not be connected into a whole.

**Integration.** Integration is the process of incorporating the lower-level system elements into a higher-level system element in the physical architecture. (Defense Acquisition Guidebook)  
Integration is also the ability of the individual sub-system of the warfare system to accurately exchange information and perform as specified in the appropriate interface documentation. (NWSCP 9410.2)

**Interoperability.** Interoperability is the condition achieved among communications-electronics systems or items of communications-electronics equipment when information or services can be exchanged directly and satisfactorily between them and/or their users. The degree of interoperability should be defined when referring to specific cases. (JP 1-02)

**Information technology.**— The term "information technology"—  
(A) with respect to an executive agency means any equipment or interconnected system or subsystem of equipment, used in the automatic acquisition, storage, analysis, evaluation, manipulation, management, movement, control, display, switching, interchange, transmission, or reception of data or information by the executive agency, if the equipment is used by the executive agency directly or is used by a contractor under a contract with the executive agency that requires the use— (i) of that equipment; or (ii) of that equipment to a significant extent in the performance of a service or the furnishing of a product; (B) includes computers, ancillary equipment (including imaging peripherals, input, output, and storage devices necessary for security and surveillance), peripheral equipment designed to be controlled by the central processing unit of a computer, software, firmware and similar procedures, services (including support services), and related resources; but (C) does not include any equipment acquired by a federal contractor incidental to a federal contract. (40 USC 11101)

**Joint Interoperability Test Certification.** Provided by Joint Interoperability Test Command (JITC) upon completion of testing, valid for 4 years from the date of the certification or when subsequent program modifications change components of the NR-KPP or supportability aspects of the system (when materiel changes (e.g., hardware or software modifications, including firmware) and similar

changes to interfacing systems affect interoperability; upon revocation of joint interoperability test certifications; non-materiel changes (i.e., DOTLPF) occur that may affect interoperability). (CJCSI 6212.01F)

**MAGTF C2.** MAGTF C2 is a strategy, a process, and ultimately a system of systems (SoS) by which the Marine Corps will develop current and future capabilities and programs in order to achieve Nat-Centric Operations and Warfare (NCOW), and implement the FORCEnet Functional Concept of providing robust information sharing and collaboration capabilities across both functional and security domains. MAGTF C2 will support and enable joint, multi-national, and interagency interoperability through linkages to key joint functional concepts and capabilities. (A Vision for MAGTF C2 27 April 2006)

**MAGTF C2 Capability Model.** The MAGTF C2 Capability Model is the Marine Corps framework that addresses the fundamental need to integrate Marine Corps C2 and Communications Systems capabilities with each other and with existing and future Joint and multinational capabilities. It was developed to implement C2 Capability Portfolio Management, and to provide the taxonomy and structure necessary to manage the large and complex portfolio of C2 and Communications Systems. (MAGTF C2 CONOPS)

**MAGTF C2 System.** Is an interdependent component system that contributes to the command and control capabilities for the MAGTF.

**MAGTF C2 System of Systems.** The set or arrangement of interdependent systems that constitute the command and control capabilities for the MAGTF that are related or connected to provide a given capability. The loss of any part of the system could significantly degrade the performance or capabilities of the whole. The development of an SoS solution will involve trade space between the systems as well as within an individual system performance.

**National Security System (NSS).** A telecommunications or information system operated by the Federal Government, the function, operation, or use of which -

involves intelligence activities;

involves cryptologic activities related to national security;

involves command and control of military forces;

involves equipment that is an integral part of a weapon or weapons system; or is critical to the direct fulfillment of military or intelligence missions.

**Limitation.** NSS does not include a system to be used for routine administrative and business applications (including payroll, finance, logistics, and personnel management applications). (40 USC 11103).

**Operational Architecture.** Descriptions of the tasks, operational elements, and information flows required to accomplish or support a warfighting function. (JP 1-02)

**Solution Architectures.** A framework or structure that portrays the relationships among all the elements of something that answers a problem. (DODAF Version 2.0)

**System.** A functionally, physically, and/or behaviorally related group of regularly interacting or interdependent elements; that group of elements forming a unified whole. (JP 1-02 & JP 3-0)

**System of Systems (SoS).** A set or arrangement of interdependent systems that are related or connected to provide a given capability. The loss of any part of the system could significantly degrade the performance or capabilities of the whole. The development of an SoS solution will involve trade space between the systems as well as within an individual system performance.

## Glossary of Terms

ACE	Aviation Combat Element
ADS	Authoritative Data Source
AEE	Aviation Expeditionary Enabler
ANGLICO	Air Naval Gunfire Liaison Company
C2	Command and Control
CA	Civil Affairs
CBRN	Chemical Biological Radioactive and Nuclear
CEAB	Command Element Advocate Board
CFT	Cross Functional Team
C-IED	Counter Improvised Explosive Device
CJCSI	Chairman, Joint Chiefs of Staff Instruction
CIO	Chief Information Officer
COCOM	Regional Combatant Commander
COE	Concept of Employment
CONOPS	Concept of Operations
Cyber	CyberSpace
DDCIO	Deputy Department of the Navy Chief Information Officer
DODAF	Department of Defense Architecture Framework
DON	Department of the Navy
DOTMLPF	Doctrine, Organization, Training, Material, Leadership and Education, Personnel, and Facilities
EFDS	Expeditionary Force Development System
EW	Electronic Warfare
FAM	Functional Area Manager
GCE	Ground Combat Element
ICD	Initial Capabilities Document
IM	Information Management
IO	Information Operations
IT	Information Technology
ITSG	Information Technology Steering Group
IW	Irregular Warfare
JITC	Joint Interoperability Test Command
JP	Joint Publication
JROC	Joint Requirements Oversight Council
LCE	Logistics Combat Element

MAGTF	Marine Air Ground Task Force
MARFOR	Marine Forces
MCISR-E	Marine Corps Intelligence, Surveillance and Reconnaissance-Enterprise
MCO	Marine Corps Order
MCOTEA	Marine Corps Operational Test and Evaluation Activity
MCSC	Marine Corps Systems Command
MEU	Marine Expeditionary Unit
MROC	Marine Requirements Oversight Council
MSIB	MAGTF Systems Integration Board
NAVAIR	Naval Air Systems Command
NAVSEA	Naval Sea Systems Command
NCDS	Net Centric Data Strategy
NSS	National Security System
OA	Operational Architecture
OAG	Operational Advisory Group
OST&E	Office of Science, Technology and Experimentation
PA	Public Affairs
PEO-LS	Program Executive Office-Land Systems
SC	Strategic Communications
SECNAVINST	Secretary of the Navy Instruction
SoS	System of Systems
T&E	Training and Education
TECOM	Training and Education Command
TISWG	Technical Interoperability Standards Working Group
TTF	Transition Task Force
TTP	Tactics, Techniques, and Procedures
WG	Working Group