



**Armed Forces Communications and Electronics Association  
(AFCEA)**

**Thursday, January 22<sup>nd</sup>  
Quantico-Potomac Chapter Luncheon  
The Clubs at Quantico (TCAQ), Marine Corps Base Quantico, VA**

***Colonel Gregory T. Breazile, USMC  
Director***

***Command & Control / Cyber & Electronic Warfare Integration Division (C2/CEWID)***



# C2/CEWID Functions



C2/CEWID is responsible for DOTMLPF capability development in the areas of *Marine Corps C2, Cyberspace, and Electronic Warfare*

C2/CEWID coordinates with the operating forces, supporting establishment, and other stakeholders in order to define capabilities, identify gaps, and support fiscally informed solution implementation.



# Command & Control/ Cyber & Electronic Warfare Integration Division (C2/CEWID- JCA 5/6)



**Col "Greg" Breazile**  
C2/CEWID Director

**CIV "Tom" Ziek**  
Deputy Director  
JCA 5 (C2)

**CIV "Rob" Gearhart**  
Deputy Director  
JCA 6 (NET CENTRIC)

**CIV Richard Luehrs**  
Operations Officer  
**CIV "Tony" Mattaliano**  
Capabilities Portfolio Mngmt

**C2 BRANCH**

**AVIATION C2 BRANCH**

**TRANSMISSIONS & NETWORKS BRANCH**

**DEFENSIVE CYBER OPERATIONS / ENTERPRISE / NETWORK OPERATIONS**

**MAGTF ELECTRONIC WARFARE / OFFENSIVE CYBER OPERATIONS BRANCH**

**CIV "J. T." Turner**  
C2 Branch Head  
Capt Scott Andersen  
Capabilities Officer  
MOS 0602

**LtCol "Rick" Owens**  
AC2 Branch Head  
MOS 5902

Capt Elliot Tommingo  
Capabilities Officer  
MOS 0602

Capt Maritza Anderson  
Capabilities Officer  
MOS 0602

Capt Patrick Schrafft  
SPACE OPS Capabilities  
(Naval Post-Graduate)

Capt (Vacant)  
Capabilities Officer  
MOS 0602

CIV "Jeff" Castro  
Program Analyst

CIV "Gordy" Hartway  
Joint/External Coordinator

**Maj "Don" Meek**  
Capabilities Officer  
MOS 7202

CIV "Dave" Dutter  
Program Analyst

**Maj "Mike" Guerra**  
Branch Head  
MOS 0602

Capt Austin Yagle  
Capabilities Officer  
MOS 0602

Capt Kevin McMullen  
JOINT C4 Capabilities  
(Naval Post-Graduate)

Capt "Bill" Kloth  
Capabilities Officer  
MOS 0602

CWO5 Paul Trautman  
Capabilities Officer  
MOS 0620

GySgt "Chris" Brinkley  
Capabilities Officer  
MOS 2823

GySgt Mark Hudson  
Capabilities Officer  
MOS 2823

CIV "A. J." Smith  
Program Analyst

**LtCol (Sel) "Johnnie" Jones**  
Branch Head  
MOS 0602

**Maj "Steve" Pacheco**  
Capabilities Officer  
MOS 0602

Capt Karl Hendler  
Capabilities Officer  
MOS 0602

Maj (Vacant)  
Systems Integrator  
MOS 0602

CIV Marcus Johnson  
Program Analyst

CIV "Joe" Catenor  
Program Analyst

CIV "Tim" Mauck  
Program Analyst

**CIV "Anthony" Watkins**  
MAGTF EW & OCO Branch Head

**OCO**  
**Maj "Brett" Eberhardt**  
Capabilities Officer  
MOS 0202

Capt "Steve" Smith  
Capabilities Officer  
MOS 0202

CIV "Brad" Danforth  
Program Analyst  
0343

MSgt John Scoggins  
Capabilities Officer  
2691

**E/W**  
**LtCol "Chunks" Merker**  
EW Branch Head  
MOS 7543

Capt "Mike" Watkins  
Capabilities Officer  
MOS 7588

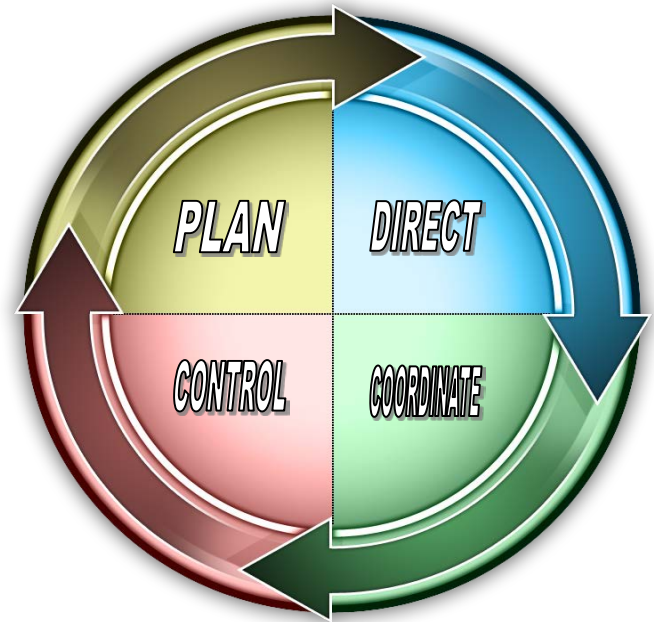
**C2/CEWID PROGRAMMING SECTION**  
**LtCol Perdev**  
C2/CEWID Program Objective Memorandum (POM) Officer  
MOS 0602  
**CIV "Cutter" Jones**  
C2/CEWID POM Deputy  
**CIV Amanda Grossett**  
Program Analyst



# MAGTF C2



- MAGTF C2 provides the right information to the right decision-maker at the right time anywhere within the Joint operational area. MAGTF C2 allows commanders to meet operational challenges inherent in disaggregated operations by enabling Situational Awareness, collaboration, common understanding, and speed of decision which collectively result in greater decentralization in orders execution.
- MAGTF C2 is based upon the following attributes:
  - Joint and coalition interoperability
  - Information Assurance /network protection
  - Common applications and hardware
  - Agile and redundant network architectures that support mission needs
  - Seamless information sharing
  - Agile processes to support emerging MAGTF C2 requirements



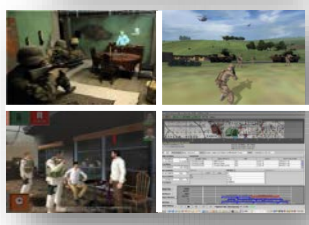


# "The Plan"



SECDEF OIG REPORT 2013-148  
 FROM: Commandant of the Marine Corps  
 SUBJECT: MARINE CORPS EXPEDITIONARY FORCE DEVELOPMENT REPORT (MFD)  
 DATE: 2013-11-29  
 1. PURPOSE: This report provides an overview of the Marine Corps' current and future plans for the Expeditionary Force 21 (EF21) program. It includes information on the current status of the program, the challenges facing the program, and the actions being taken to address these challenges. The report is intended for the Secretary of Defense and the Joint Chiefs of Staff.

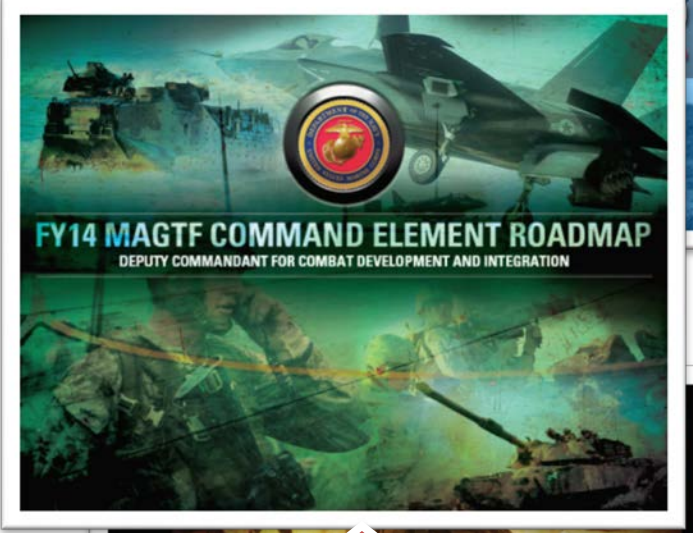
Department of Defense  
**DIRECTIVE**  
 NUMBER 3042.01  
 September 27, 2009  
 SUBJECT: Capabilities Portfolio Management  
 Reference: See Section 1  
 1. PURPOSE: This Directive  
 a. Establishes policy and assigns responsibility for the use of capability portfolio management to ensure that the Department of Defense (DoD) is able to identify and track the capabilities it needs to meet its future needs.  
 b. Assigns and clarifies the roles of the Office of the Secretary of Defense (OSD), the Office of the Assistant Secretary of Defense (ASD), and the Office of the Deputy Assistant Secretary of Defense (DASD) in the implementation of this Directive.  
 2. APPLICABILITY: This Directive applies to all OSD, ASD, and DASD offices, as well as to all DoD activities, including the DoD Component, the DoD Field Activities, and all other organizations within the Department of Defense (DoD) that are involved in the development, acquisition, and sustainment of DoD capabilities.  
 3. REFERENCES: See Glossary  
 4. POLICY: It is DoD policy that  
 a. The Department of Defense will use capability portfolio management to ensure that the DoD is able to identify and track the capabilities it needs to meet its future needs.  
 b. The DoD will use capability portfolio management to ensure that the DoD is able to identify and track the capabilities it needs to meet its future needs.  
 c. The DoD will use capability portfolio management to ensure that the DoD is able to identify and track the capabilities it needs to meet its future needs.



## Strategic Guidance



## Established Processes



## Portfolio Management

## Science and Technology/R&D







# JCA 5 /6 and Cyber/EW Portfolio



## JCA 5 (C2)

Aviation	MAGTF C2	Joint
CAC2S	COC	GCCS-TCO
MACCS	NOTM	JFRG
TBMCS	MCHS	
CTN	MC2SA	
	H2C2	
	JBC-P	

## JCA 6 (Cyber & EW)

<u>Transmission</u>	<u>Network</u>	<u>EW</u>
TCM	DDS-M	CREW
VSAT	TSM	CESAS
SMART-T	NPM	
TWTS	COMSEC	
LMST	IAEA	
GBS	Smart Cards	
DAGR		
<b>JECCS</b>		
	<u>Level of Effort</u>	
	SEIC	
	JINTACCS	

### Portfolio Snap-Shot:

- 31 WIPEB Programs
- Interdependent
- Cross-Functional



# JCA 5 /6 & Cyber / EW Portfolio



<u>PROGRAM TITLE</u>	<u>CAPABILITIES INTEGRATION OFFICER</u>
<b>Communications Switching &amp; Control Systems</b>	
Data Distribution System - Modular (DDS-M)	CWO5 Trautman / GySgt Brinkley
Tactical Voice Switching System (TVSS)	CWO5 Trautman / GySgt Brinkley
Communication Security Cables (COMSEC)	Capt McMullen
Joint Communication Support Equipment (JCSE)	CWO5 Trautman
Joint Enhanced Core Communications System (JECCS)	CWO5 Trautman / GySgt Brinkley
Digital Technical Control (DTC)	CWO5 Trautman / GySgt Brinkley
<b>Cyber</b>	
Information Assurance Engineering Analysis (IAEA)	CIV J. Caternor
<b>Radio Systems</b>	
Terrestrial Wideband Transmission System (TWTS)	Capt McMullen
Very Small Aperture Terminal (VSAT)	Capt Yagle
Lightweight Multi-Band Satellite Terminal (LMST)	Capt Yagle
Tactical Communication Modernization (TCM)	Capt Kloth
Secure Mobile Anti-Jam Reliable Tactical-Terminal (SMART-T)	Capt Yagle
Global Broadcast Service (GBS)	Capt Yagle
Defense Advanced GPS Receiver (DAGR)	Capt Yagle
<b>Other Systems</b>	
Network Planning and Management (NPM)	CWO5 Trautman / GySgt Brinkley
USMC CREW Systems (CREW)	LtCol Merker / Capt Estenson
Communication Emitter Sensing and Attacking System (CESAS)	LtCol Merker
<b>Air Operations (Command &amp; Control)</b>	
Composite Tracking Network (CTN)	LtCol Owens / Maj Meek / CIV D. Dutter
Marine Air Command and Control Systems (MACCS)	LtCol Owens / Maj Meek / CIV D. Dutter
Theater Battle Management Core System (TBMCS)	LtCol Owens / Maj D. Meek / CIV D. Dutter
Common Aviation Command and Control System (CAC2S)	LtCol Owens / Maj D. Meek / CIV D. Dutter
<b>Command Post Systems</b>	
Global Command and Control System (GCCS) / (TCO)	CIV G. Hartway
Joint Battle Command Platform (JBCEP) / BFT	Capt M. Anderson
Networking On the Move (NOTM)	Capt Schrafft
Hand Held Command and Control (H2C2)	Capt Tommingo
<b>Common Computer</b>	
Marine Corps Common Hardware (MCHS)	CIV J. Castro
Unit Operations Center	
Combat Operations Center (COC)	Capt S. Andersen
<b>Other Systems</b>	
Joint Force Requirements Generator (JFRG)	CIV J. Castro
Systems Engineering & Integration Coordination (SEIC)	Capt M. Anderson
Joint Interoperability of Tactical C2 Systems (JINTACCS)	LtCol Owens / Maj D. Meek / CIV D. Dutter
MAGTF C2 Systems Applications (MC2SA)	Capt Tommingo



# Interdependencies



## Critical Associated (20 Programs)

AFATDS	GBOSS-E
A MANPADS	DCGS-MC
ATNAVICS	GCSS-MC
JSF	G/ATOR
JLTV	TPS-59
AAV C7	TLDHS
LAV-C2	UAV
M1	MV-22/CH-53
HMMWV	Science and
Technology	
ACV	

## Enterprise (14 Programs)

MCEITS	COOP
SONIC	MCSELMS
NGEN	ELMR
BTI	MCNET
DISA	MARFORCYBER
DTC	IA
MCNOSC	PKI

## Core

31 Programs  
(JCA 5/6/EW Portfolio)



## Associated (49 Programs)

ADCP	TPS-46	JADOCS
EFSS	CIDNE	MEWS
JTIDS	IAS	WDL
TCAC	MIMMS	DMS
AMS-TAC	TPS-63	JRE
GCFS	CPOF	NALCOMIS
LCMR	IBR	Tactical Bandwidth
TCPC	MCISR-E	EMSS
BAT-Hide	TRSS	JWARN
HIMARS	CTT	OIS
MDSS II	IOS	TSOF
TGRS	MarineLink	EPLS
CMOS	TS LITE	JSTARS
IDS	CSM	SMS
MOL	IOW	Combat Camera
W2W	CHIP	PAS
		MSIDS Base Station

### Note:

Span of inter-dependencies is increasing based upon enterprise view of information and network requirements





# Cyberspace Operations



DoD Information Network (DODIN) Operations: Actions taken to architect, build, configure, secure, operate, maintain, and sustain DoD networks to create and preserve availability, integrity, authentication, confidentiality, and non-rep[reudiation of information.

Defensive Cyber Operation (DCO): Actions taken to protect, monitor, analyze, detect, and respond to unauthorized activity within DoD Information Network. DCO employs information technology, information assurance, intelligence, counter-intelligence, law enforcement, and other military capabilities to defend DoD Information Network.

Offensive Cyber Operations (OCO): Includes the use of computer networks to disrupt, deny, degrade, or destroy information resident in computers and computer networks, the computers and networks themselves, or to enable future offensive operations. Computer Network Attack (CNA) is a subset of offensive cyberspace operations where the anticipated effect of the operation is equivalent to a military attack.

(JP 3-12: Cyberspace Operations)



# Electronic Warfare

Electronic Attack (EA): Division of electronic warfare involving the use of electromagnetic energy, directed energy, or anti-radiation weapons to attack personnel, facilities, or equipment with the intent of degrading, neutralizing, or destroying enemy combat capability and is considered a form of fires.

Electronic Protection (EP): Division of electronic warfare involving actions taken to protect personnel, facilities, and equipment from any effects of friendly or enemy use of the electromagnetic spectrum that degrade, neutralize, or destroy friendly combat capability.

Electronic Support (ES): Division of electronic warfare involving actions tasked by, or under direct control of, an operational commander to search for, intercept, identify, and locate or localize sources of intentional and unintentional radiated electromagnetic energy for the purpose of immediate threat recognition, targeting, planning and conduct of future operations.