# MARINE CORPS ENTERPRISE NETWORK
UNIFICATION PLAN
2014 – 2017
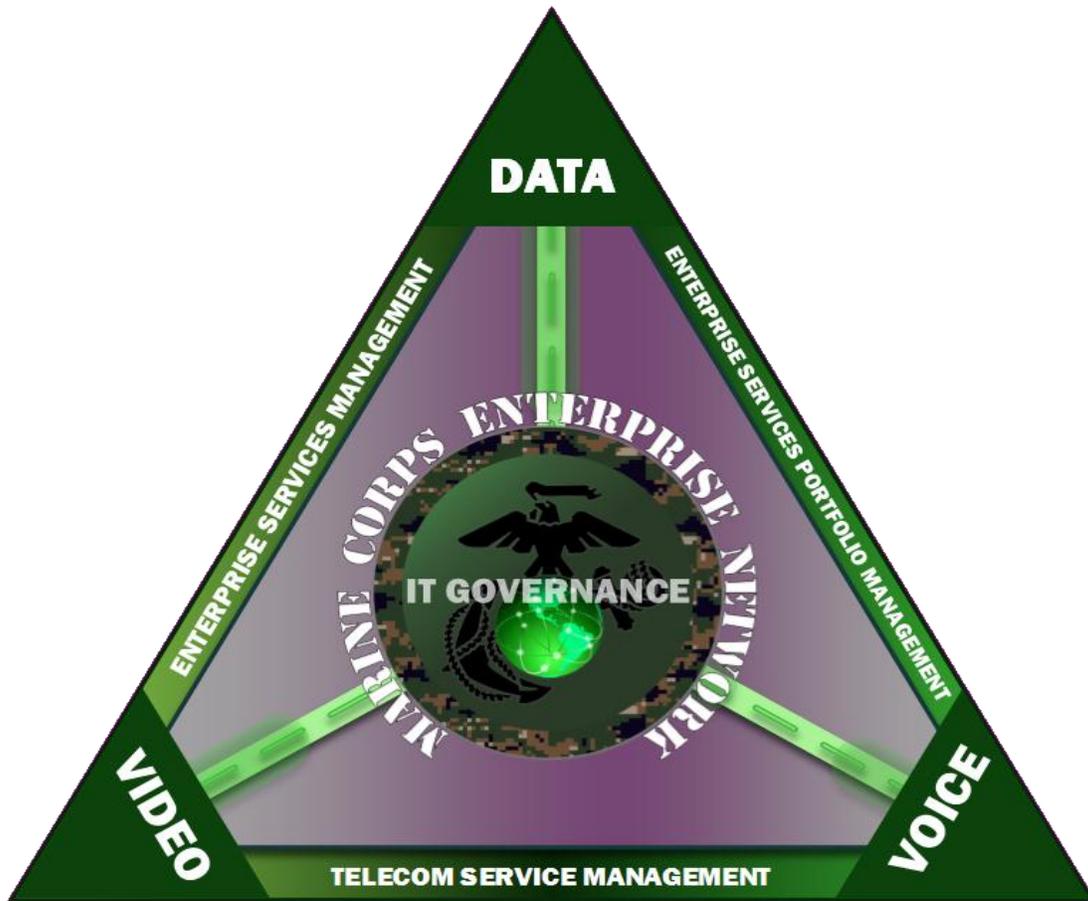
A PLAN OF ACTIONS TO UNIFY THE MCEN

V2.0
Mar 2014

Document Change Record

Version	Date	Change Description
1.0	20 Jun 2013	Director C4's Signature
2.0	20 Mar 2014	EA Review
Updated and Current Documentation is available at: https://eis.usmc.mil/sites/mcen		

From: Director, Headquarters Marine Corps Command, Control, Communications, and Computers

Subj: UPDATES TO THE MARINE CORPS ENTERPRISE NETWORK (MCEN) UNIFICATION PLAN

1. During our transition to a government owned and operated environment, we have accomplished many great things. The MCEN Unification Plan has provided unity of effort amongst multiple agencies that are critical in supporting the principles of unification. As objectives are closed and progress is made, I will staff and then publish updates to the MCEN Unification Plan annually.

2. The changes that have been made to the original document are:

   a. Removed the word "Campaign" from the title
   b. MCEN definition aligned to the Marine Corps Information Enterprise (MCIENT) Strategy
   c. Extended the timeline to include the Optimization Phase
   d. DISN was changed to DODIN
   e. NMCI was removed from the NGEN Line of Effort (LOE)
   f. "Application Portfolio Management" LOE was changed to "Enterprise Portfolio Management"

3. Marines are once again in charge of planning, installing, operating, maintaining, and securing the MCEN. As we move forward through coordinated plans, policies, and projects, we will work as a team to shape the future of the MCEN in order align with Joint Information Environment (JIE) standards, support operational mission requirements, and provide the Marine Corps with superior services and support.

K. J. NALLY

Distribution:
HQMC CD&I
CG MCICOM
CG MARFORCYBER
CG MARCORSYSCOM
DIR CDD

Contents

Director's Intent

The Marine Corps Enterprise Network (MCEN) is the Marine Corps' network-of-networks and approved interconnected network segments. It comprises people, processes, logical and physical infrastructure, architecture, topology, tools, and Cyberspace operations. The MCEN is characterized at a minimum to include: (1) Programs of Record (POR) that provide network services to forward deployed forces operating in the USMC.mil and USMC.smil.mil namespace and in USMC routable IP addresses and (2) Operations and Maintenance (O&M) functions that provision data transportation, enterprise Information Technology (IT), network services, and boundary defense. The MCEN interfaces with external networks to provide information and resource sharing, as well as access to external services. Finally, when end user devices, sensors, applications, and appliances are connected to the MCEN, they become part of the network through a relationship established at an interface point. The MCEN must provide unified network processes and services to facilitate a tactical, operational, and strategic advantage by providing Marines with the same IT capabilities and standardized tool sets from flag pole to fighting hole.

Purpose:
The MCEN Unification Plan (MUP) provides a roadmap of near-term actions to unify the MCEN. Unification and synchronization of disparate MCEN elements will ensure the MCEN's ability to securely and rapidly deliver a robust and seamless information environment in accordance with the Marine Corps Information Enterprise Strategy (MCIENT).

Method:
All efforts to unify the MCEN will be guided by the following principles:
- Regionalization and Empowerment of Local End User Service Delivery
- Standardization and Normalization
- Optimization
- Consolidation and Virtualization
- Synchronization with the Department of Defense Information Network (DODIN)
- Mission Oriented Architecture

We will drive MCEN unification through four complimentary Lines of Effort (LOE):
- IT Governance
- Telecommunications Service Management
- Enterprise Services Management
- Enterprise Services Portfolio Management

End-State:
The future operations of the MCEN must be centrally managed by the Marine Corps Network Operations and Security Center (MCNOSC) and directly supported by the Regional Network Operations and Security Centers (RNOSC) and the Marine Corps Installation Command (MCICOM) G-6s, but de-centrally executed by the eight regional Marine Air Ground Task Force (MAGTF) Information Technology Support Centers (MITSC), Base, Post, Camp, and Station S-6s, and our Operating Force Commands.

The future MCEN must support Unified Capabilities (UC); defined as the integration of voice, video, and data services delivered ubiquitously across an interoperable, secure, and highly available network infrastructure that is independent of the type of technology.

The future MCEN must provide an increased ability to collaborate and share information for heightened situational awareness and provide access to knowledge bases in which information can be researched expeditiously.

Core Transition Plan

	FY11	FY12	FY13	FY14	FY15	FY16	FY17
CoSC Transition Activities	I. Facilities						
	II. NetOps C2						
	III. Transport Services						
	IV. Core Services						
	V. End-User/Service Support						
Post-CoSC Transition Activities	VI. Regionalization						
		VII. Unification of the MCEN					
	PREPARE	ASSUME	TRANSFORM	NORMALIZE			OPTIMIZE
	COSC	*FULL GO/GO				MCEN	
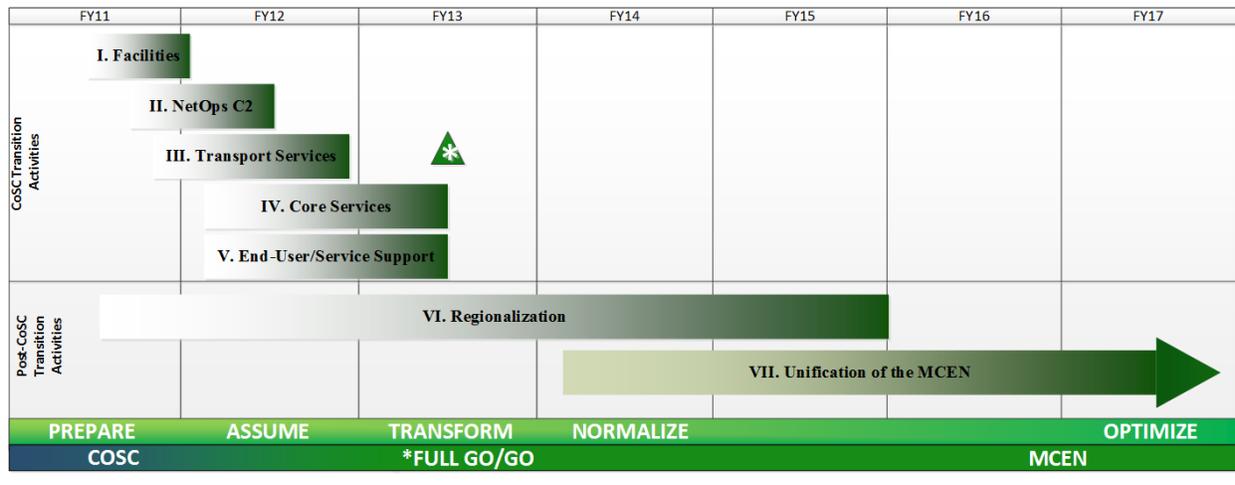
Figure 1 Core Transition

The Marine Corps Next Generation Enterprise Network - Core Transition Plan (NGEN-CTP), dated 30 May 2012, provided a framework of steps required to migrate from Hewlett Packard Enterprise Services (HPES) via the Continuity of Services Contract (CoSC) to a Government Owned/Government Operated (GO/GO) environment supported by the NGEN program. The NGEN-CTP outlined seven phases of transition. Phases one through five are CoSC transition activities that were described within the NGEN-CTP. Phase 6 and Phase 7 are post-CoSC transition activities that were not detailed in the NGEN-CTP.
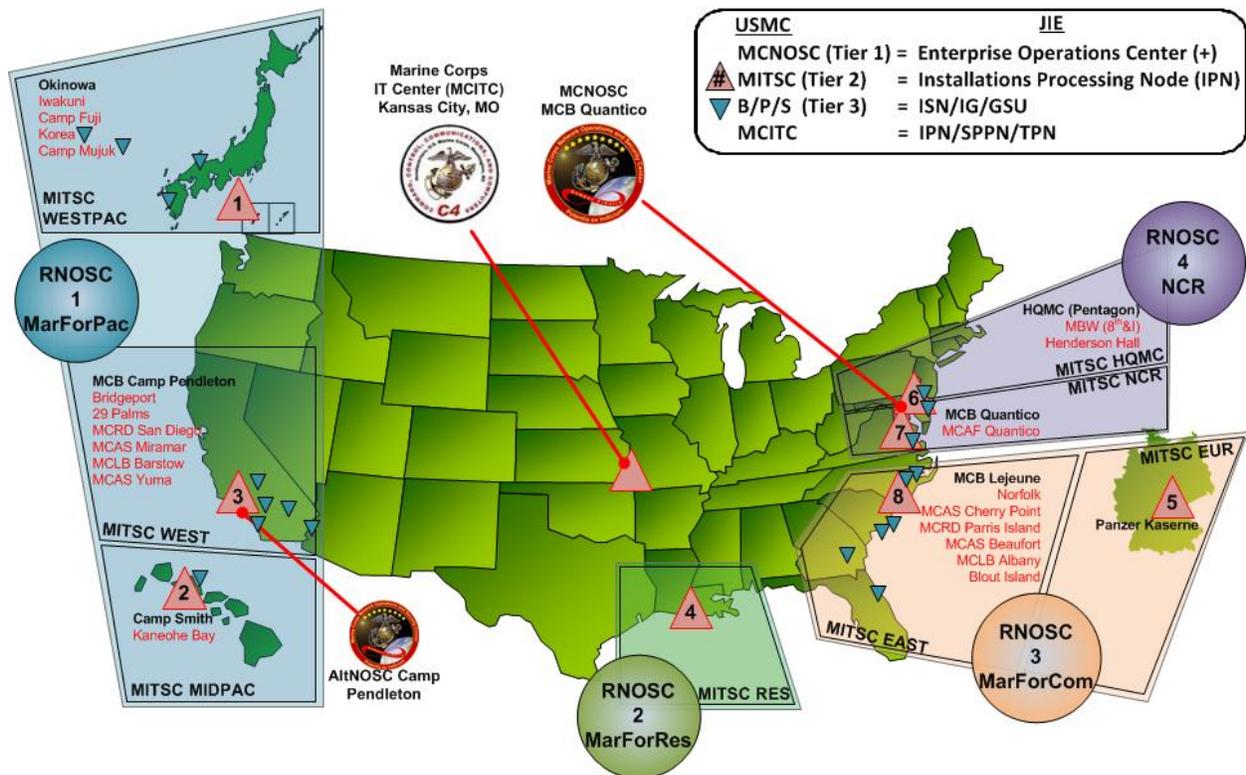
Figure 2 - Regionalization Strategy

Guiding Principles

Regionalization and Empowerment of Local End User Delivery

MCEN Unification must support the Marine Corps Regionalization Strategy. We must balance seamless enterprise capabilities with local and regional service delivery to allow maximum flexibility and responsiveness to supported commanders. End user support will be accomplished by empowering helpdesks and Information Systems Coordinators (ISC) to resolve incidents, fulfill service requests, and track end user issues to completion. An empowered helpdesk facilitates effective responses to issues, incidents, and problems.

Standardization, Normalization, and Optimization

The MCEN must continue to be governed by existing standards and regulations while assimilating new processes, tools, and technologies across the enterprise. The MCEN must be standardized, normalized, and then optimized by conforming to standards in order to be positioned to influence the development of the Joint Information Environment (JIE) and allow the Marine Corps to take a leadership role as the Department of Defense (DoD) seeks to increase the security and improve the efficiency of the DODIN.

- o **Standardized**:
  - Network Plans and Policy
  - IT Services/IT Service Management Processes
  - IT Architecture and Configuration Control
  - Training

- o **Normalized**:
  - Hardware/Software/Operating Systems/Utilities
  - IT Service Management and Network Management Tools
  - Data Center Identification/Reporting
  - MCEN Wide Area Network (WAN) Infrastructure
  - End User Services
  - Defense In Depth

- o **Optimized**:
  - Network Management
  - Applications/Data Hosting
  - UC Implemented
  - 75% Services Cloud Enabled

Consolidation and Virtualization

Fiscal constraints and operational requirements require the consolidation of resources by leveraging virtualization technology. We will separate logical configurations from physical infrastructures where feasible and cost effective to improve hardware resource utilization and collapse security boundaries into a single security architecture that reduces the external attack surfaces, standardizes security controls, and aligns with JIE concepts. We must dynamically apply network and server capacity to meet operational requirements with minimal excess.

- o **Consolidate and Virtualize**
  - Data Centers
  - Servers (Virtual Servers)
  - Networks (Virtual Private Networks (VPN))
  - Desktops (Virtual Desktop Infrastructure (VDI))
  - Applications (Virtual Application Provisioning)

Synchronization with DODIN

The MCEN's infrastructure is analogous to the DODIN. The MCEN must remain in compliance with DODIN standards and policies. Synchronizing with the DODIN will ensure uninterrupted MCEN services for deployed Marines and position the Marine Corps to make maximum use of all DODIN services.

- o **Synchronize With**:
  - DoD JIE

Mission Oriented Architecture

The MCEN Architecture is not oriented on geography, organizations, security, or technology. All of these things influence the MCEN Architecture; however, the MCEN Architecture must be oriented on the effective delivery of services in direct support of mission objectives. By looking to mission support

requirements, the MCEN Architecture will provide an effective balance between centralized management and decentralized end-user support.
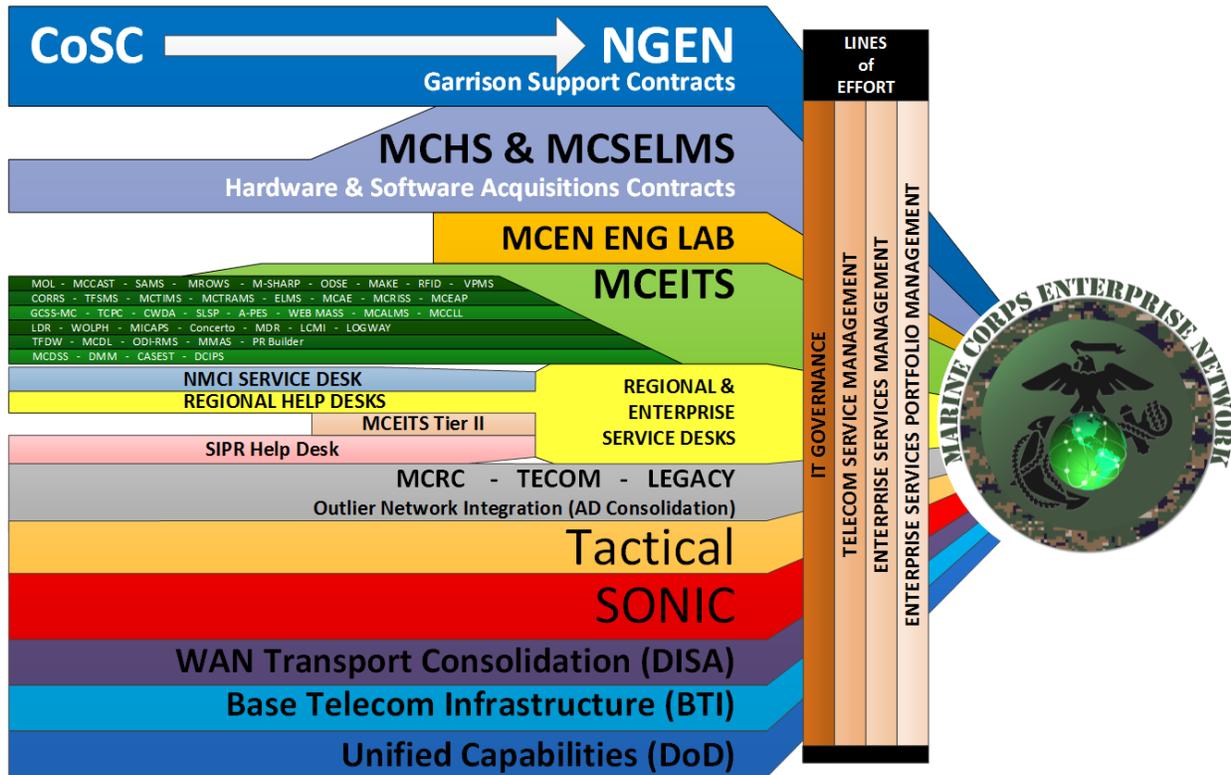
Figure 3 - MCEN Unification

Lines of Effort

Line of Effort 1: IT Governance
> **Objective 1A** Develop IT Service Management (ITSM) Policy
> **Objective 1B** Develop capabilities and requirements to support MCEN Unification
> **Objective 1C** Update annually the Information Resources Management (IRM) 2300-01 MCEN Supporting Establishment Concept of Employment (SE COE)
> **Objective 1D** Develop a defense in depth policy
> **Objective 1E** Establish a MCEN Unification governance body
> **Objective 1F** Provide the DoD Chief Information Officer (CIO) with the Marine Corps Unification JIE metrics and schedule

Line of Effort 2: Telecom Service Management
> **Objective 2A** Develop plans and policy for the unification of MCEN WAN transport
> **Objective 2B** Develop plans and policies for the integration of UC, to include: Marine Corps networks; DoD, federal, and commercial services

Line of Effort 3: Enterprise Services Management
> **Objective 3A** Develop the MCEN Unification Services for the Enterprise Information Environment

Objective 3B Develop the MCEN Request Fulfillment Process
Objective 3C Develop Knowledge Management Processes
Objective 3D Develop policy and objectives to consolidate Marine Corps Data Centers
Objective 3E Complete the Transition from CoSC to NGEN
Objective 3F Implement Marine Corps Enterprise Information Technology System (MCEITS)
Objective 3G Implement Next Generation Enterprise Network (NGEN)
Objective 3H Implement Secure Operational Network Infrastructure and Communication (SONIC)
Objective 3I Implement Base Telecommunications Infrastructure (BTI)

Line of Effort 4: Enterprise Services Portfolio Management
Objective 4A Develop plans and policies for the resourcing and sustainment of applications and services

RASCI Key

R	*Responsible*	Task Owner: Those who do the work to achieve the task.
A	*Accountable*	Final approving authority: ultimately answerable for the correct and thorough completion of the deliverable or task and the one who delegates the work to those responsible.
S	*Support*	Resource provider: support to complete the task, may provide input to define the task.
C	*Consulted*	Counsel: Those whose opinions are sought, typically subject matter experts; and with whom there is two-way communication.
I	*Informed*	Those who are kept up-to-date on progress; and with whom there is just one-way communication

Campaign Objectives and Tasks

Line of Effort 1: IT Governance

Objective 1A Develop IT Service Management (ITSM) Policy

Standardization of ITSM processes based on the Information Technology Infrastructure Library (ITIL v3) Framework will enable MCEN ITSM stakeholders, which includes MCICOM, Marine Forces Cyberspace Command (MFCC), Headquarters Marine Corps C4 (HQMC C4), Marine Corps Systems Command (MCSC), and Regional G6s to provide a consistent level of MCEN Services.

Task -1.A.1 Revise and re-publish current guidance on MCEN ITSM governance structure
> **Sub Task 1.A.1a** Develop and publish a roadmap for additional Enterprise ITSM processes needed in Fiscal Year 2014 (FY14)
> **Sub Task 1.A.1b** Conduct a semi-annual review of current published IRM enterprise process guides

Task-1.A.2 Conduct quarterly process owner reviews

Objective Completion Date: Jul 2014 **Objective Owner: Chris Granger**		HQMC C4	MFCC	MCSC	TECOM	MARFORs	MCRC	MCICOM	HQMC CD&I	HQMC PP&O	HQMC AR
Task	**Target Completion**										
Task 1.A.1	May 2014	R/A	S	S	C	C	C	C	C	C	C
Sub Task 1.A.1a	Jul 2014	R/A	S	S	C	C	C	C	C	C	C
Sub Task 1.A.1b	Semi-Annually	R/A	S	S	C	C	C	C	C	C	C
Task 1.A.2	Quarterly	R/A	S	S	S	C	S	S	C	C	C

Line of Effort 1: IT Governance

Objective 1B Develop capabilities and requirements to support MCEN Unification

Per Marine Corps Order (MCO) 5230.20 Marine Corps Enterprise Architecture 22 Aug 2011, in conjunction with HQMC C4 CIO Division, it is critical that all capabilities and requirements documentation be produced, refined, and clarified as necessary. MCEN based DoD Architecture Framework (DoDAF) products and artifacts will be created.

Task 1.B.1 In coordination with HQMC Combat Development and Integration (CD&I) Cyber and Electronic Warfare Integration Division (CEWID), develop and staff required MCEN capabilities documentation

Task 1.B.2 In coordination with CD&I Operational Architecture Branch (OAB), produce and publish the "As-Is" and "To-Be" MCEN Operational View (OV) architectures in DoDAF format

Task 1.B.3 In coordination with MCSC Systems Engineering Interoperability Architectures and Technology (SIAT), and MFCC, produce and publish the "As-Is" and "To-Be" MCEN Systems View (SV) architectures in DoDAF format

Objective Completion Date: Dec 2014		HQMC C4	MFCC	MCSC	TECOM	MARFORs	MCRC	MCICOM	HQMC CD&I	HQMC PP&O	HQMC AR
Objective Owner: Chris Granger/Hank Costa											
Task	**Target Completion**										
Task 1.B.1	**Dec 2014**	R/A	S	C	C	C	C	C	R	C	C
Task 1.B.2	**Aug 2014**	R/A	S	C	C	C	C	C	R	C	C
Task 1.B.3	**May 2014**	R/A	S	R	C	C	C	C	C	C	C

Line of Effort 1: IT Governance

Objective 1C Update annually Information Resources Management (IRM) 2300-01 MCEN Supporting Establishment Concept of Employment (SE COE)

Concepts highlighted in this document are the Marine Corps' regionalization strategy centered on four regions that form the backbone of all net-centric operations. Each region is supported by an RNOSC (National Capital Region (NCR), Marine Forces Command (MARFORCOM), Marine Forces Reserves (MARFORRES), and Marine Forces Pacific (MARFORPAC)). The four regions encompass a total of eight sub-regions which are based on either geographical proximity or functional alignment. The sub-regions further support the regional backbone for all net-centric operations. All Marine Corps Bases/Posts/Stations (B/P/S) fall into one of these sub-regions. The sub-regions include HQMC, NCR, East, Reserves, West, Mid Pacific, West Pacific, and Europe. Each sub-region is supported by a single MITSC designed to provide IT services to garrison Marine Expeditionary Forces (MEFs), Marine Reserve Forces and Marine Corps Supporting Establishments (SE) within its area of responsibility. Each B/P/S provides touch labor in support of their respective MITSC. Operational control of the MCEN in this regionally-based architecture results in two significant changes to how commanders fulfill their Network Operations (NetOps) mission:

- The first is a realignment of NetOps authorities for global, regional, and local tasking and reporting. Operational NetOps reporting and execution is now accomplished through each RNOSC.

- The second involves implementation of enterprise-wide ITSM processes/tools for maintaining Situational Awareness (SA), network C2 in the execution of the NetOps mission, and delivery of IT services and capabilities to support garrison/deployed units. ITSM binds enterprise, regional, and local NetOps for the purpose of enabling Command and Control (C2) and providing effective, efficient, and responsive delivery of essential IT services to the Marine Corps customer and user bases. NetOps supports all aspects of the Marine Corps mission and spans all Marine Corps organizations. ITSM integrates the IT Governance, IT Acquisition, and IT Operations.

Task 1.C.1 Update annually Information Resources Management (IRM) 2300-01 MCEN Supporting Establishment Concept of Employment (SE COE)

Objective Completion Date: May 2014		HQMC C4	MFCC	MCSC	TECOM	MARFORs	MCRC	MCICOM	HQMC CD&I	HQMC PP&O	HQMC AR
Objective Owner: Chris Granger											
Task	Target Completion										
Task 1.C.1	May 2014	R/A	C	C	I	C	I	I	I	I	I

Line of Effort 1: IT Governance

Objective 1E Establish a MCEN Unification governance body

The purpose of this body is to establish a chartered governance framework to manage unification activities. The governance structure consists of three levels:

1. Unification Management Group (UMG) – Action Officer (AO)
2. Unification Management Council (UMC) – Colonel/GS15
3. Unification Management Board – General Officer/Senior Executive Service

Task 1.E.1 Establish a charter outlining the UMG/UMC/UMB responsibilities and guidelines
Task 1.E.2 In coordination with MCSC, MFCC, MCICOM Installations and Logistics (I&L), and HQMC CD&I, establish a single integrated schedule that is centrally managed for MCEN Unification and identifies critical paths and dependencies and analyzes risk. Manage the implementation plan and Integrated Master Schedule (IMS).
Task 1.E.3 Synchronize, prioritize, align and manage all enterprise IT projects via the IMS. To be approved by the Unification Management Council (UMC).

Objective Completion Date: Jul 2014		HQMC C4	MFCC	MCSC	TECOM	MARFORs	MCRC	MCICOM	HQMC CD&I	HQMC PP&O	HQMC AR
Objective Owner: Karl Hartenstine											
Task	**Target Completion**										
Task 1.E.1	Apr 2014	R/A	C	C	I	C	I	I	I	I	I
Task 1.E.2	Jul 2014	A	C	R	I	C	I	I	I	I	I
Task 1.E.3	Quarterly	A	C	R	I	C	I	I	I	I	I

Line of Effort 1: IT Governance

Objective 1F Provide DoD CIO with MCEN Unification JIE metrics and schedule

Task 1.F.1 In conjunction with HQMC C4 CIO and MFCC; submit quarterly metrics reports to DoD CIO
Task 1.F.2 Synchronize MCEN Unification and JIE integrated master schedule

Objective Completion Date: N/A **Objective Owner: Karl Hartenstine**		HQMC C4	MFCC	MCSC	TECOM	MARFORs	MCRC	MCICOM	HQMDC CD&I	HQMC PP&O	HQMC AR
Task	**Target Completion**										
Task 1.F.1	**Quarterly**	R/A	C	C	I	C	I	I	I	I	I
Task 1.F.2	**As required**	R/A	C	C	I	C	I	I	I	I	I

Line of Effort 2: Telecom Service Management

Objective 2A Develop plans and policy for the unification of MCEN WAN transport

The WAN is composed of disparate network segments and technologies. In order to unify the MCEN and synchronize with the DODIN, all customer edge WAN components must be upgraded.
These upgrades must:
1. Replace Asynchronous Transfer Mode (ATM) and Time Division Multiplexing (TDM) equipment
2. Facilitate the implementation of UC
3. Position the MCEN to leverage DODIN Internet Protocol (IP) Services
4. Provide Marine Corps communities of interest with VPN services

Task 2.A.1 Upgrade MCEN Secure Internet Protocol Routing Network (SIPRNet) outer routers
Task 2.A.2 Upgrade MCEN Non-classified Internet Protocol Routing Network (NIPRNet) outer routers
Task 2.A.3 Upgrade MCEN WAN SIPRNet encryption devices certified by the National Security Agency (NSA) and supported by the Defense Information Systems Agency (DISA)
Task 2.A.4 Publish an IRM to establish the MCEN WAN DODIN Support Services (DSS)/C4 funded circuit capacity management process
Task 2.A.5 Publish an IRM to provide guidance for the utilization of DODIN Private IP services

Objective Completion Date: Dec 2014		HQMC C4	MFCC	MCSC	TECOM	MARFORs	MCRC	MCICOM	HQMC CD&I	HQMC PP&O	HQMC AR
Objective Owner: Maj Voneida											
Task	**Target Completion**										
Task 2.A.1	Dec 2014	A	S	R	I	C	I	C	I	I	I
Task 2.A.2	Dec 2014	A	S	R	I	C	I	C	I	I	I
Task 2.A.3	Dec 2014	A	S	R	I	C	I	S	I	I	I
Task 2.A.4	Oct 2014	R/A	C	I	I	C	I	C	I	I	I
Task 2.A.5	Oct 2014	R/A	C	C	I	C	I	I	I	I	I

Line of Effort 2: Telecom Service Management

Objective 2B Develop plans and policy for the integration of UC, to include: Marine Corps networks; DoD; Federal; and Commercial services

Task 2.B.1 Publish a Marine Corps Order to provide policy guidance for the implementation of UC
Task 2.B.2 Publish a Marine Corps IRM to provide policy and guidance for the implementation of UC

Objective Completion Date: Dec 2015		HQMC C4	MFCC	MCSC	TECOM	MARFORs	MCRC	MCICOM	HQMC CD&I	HQMC PP&O	HQMC AR
Objective Owner: Maj Voneida											
Task	**Target Completion**										
Task 2.B.1	**Dec 2014**	R/A	C	C	I	C	I	I	I	I	I
Task 2.B.2	**Dec 2015**	R/A	C	C	I	C	I	I	I	I	I

Line of Effort 3: Enterprise Services Management

Objective 3A Develop the MCEN Unification Services for the Enterprise Information Environment

Standardization of the MCEN Service Catalog will enable MCEN users to view, understand, and search the services offered. The MCEN Service Catalog provides required approval, workflow, routing, service-level management, and other processes necessary to facilitate fulfilling requests. The user may return to the site later to check on the status of a request, or to view overall metrics on how well the organization is performing the services it provides.

Task 3.A.1 Publish the MCEN Service Catalog semi-annually
Task 3.A.2 Publish an IRM for enterprise services management processes that align to the Marine Corps Force Development System (MCFDS) process for new requirements to be added to the MCEN
Task 3.A.3 Publish Quarterly Service Catalog Guidance Message to all Owners and Managers
Task 3.A.4 Publish Quarterly Newsletter on Updated Service Catalog and Level Management Process for end users
Task 3.A.5 Establish Enterprise Services Requirements Validation Group (ESRVG) Charter and Process

Objective Completion Date: Dec 2014 **Objective Owner: Hank Costa**		HQMC C4	MFCC	MCSC	TECOM	MARFORs	MCRC	MCICOM	HQMC CD&I	HQMC PP&O	HQMC AR
Task	**Target Completion**										
Task 3.A.1	Semi-Annually	R/A	C	C	I	C	I	I	I	I	I
Task 3.A.2	Dec 2014	R/A	C	C	I	C	I	I	I	I	I
Task 3.A.3	Quarterly	R/A	C	C	I	C	I	I	I	I	I
Task 3.A.4	Quarterly	R/A	C	C	I	C	I	I	I	I	I
Task 3.A.5	May 2014	R/A	C	C	I	C	I	I	I	I	I

Line of Effort 3: Enterprise Services Management

Objective 3B Develop the MCEN Request Fulfillment Process

Request Fulfillment provides users with a means of requesting and receiving standard services which have predefined approval and qualification processes. The workflows created under Request Fulfillment are also a source of information to MCEN users detailing the available services and how to obtain them. For standard services, hardware, software, and licenses; request fulfillment provides a user-facing front-end interface to back-end ordering tools.

Task 3.B.1 Collaborate with the Service Catalog team to configure Marine Corps services within the Request Fulfillment module of the Remedy System
Task 3.B.2 Review quarterly the Request Fulfillment workflow process across the MCEN
Task 3.B.3 Configure the Remedy System to support Request Fulfillment by providing a single tool with the ability to automate requests for hardware and software

Objective Completion Date: Oct 2014		HQMC C4	MFCC	MCSC	TECOM	MARFORs	MCRC	MCICOM	HQMC CD&I	HQMC PP&O	HQMC AR
Objective Owner: Chris Granger											
Task	Target Completion										
Task 3.B.1	Oct 2014	R/A	C	C	I	C	I	I	I	I	I
Task 3.B.2	Quarterly	R/A	C	C	I	C	I	I	I	I	I
Task 3.B.3	Oct 2014	A	C	R	I	C	I	I	I	I	I

Line of Effort 3: Enterprise Services Management

Objective 3C Develop Knowledge Management Processes

Knowledge Management is the process responsible for ensuring that MCEN ITSM community can collect, analyze, store, and share information, situational awareness, and knowledge affecting the MCEN. This will be achieved through ensuring accessibility and reliability of information for MCEN users through tools which facilitate the operationally relevant exchange of information.

Task 3.C.1 Build the MCEN Homeport portal to support Marine Corps users
Task 3.C.2 Provide the regional service desk with detailed work instructions to support the publishing and managing of new knowledge articles in the Remedy System

Objective Completion Date: Aug 2014		HQMC C4	MFCC	MCSC	TECOM	MARFORs	MCRC	MCICOM	HQMC CD&I	HQMC PP&O	HQMC AR
Objective Owner: Chris Granger											
Task	Target Completion										
Task 3.C.1	Jun 2014	R/A	C	C	I	C	I	I	I	I	I
Task 3.C.2	Aug 2014	R/A	C	C	I	C	I	I	I	I	I

Line of Effort 3: Enterprise Services Management

Objective 3D Develop policy and objectives to consolidate Marine Corps Data Centers

Currently there exist an excessive quantity of, and underutilized resources, in terms of Marine Corps Data Centers. In accordance with the Department of the Navy (DON) IT/Cyberspace Efficiency Initiatives and Realignment Tasking, the Marine Corps must consolidate and reduce the number of data centers.

Task 3.D.1 Identify and report Data Centers
Task 3.D.2 Publish an IRM which defines the consolidation and sustainment of Data Centers
Task 3.D.3 Develop a Total Cost of Ownership process for the management and programing of Data Center sustainment
Task 3.D.4 Develop a Data Center Annual Report for the DON CIO and DoD CIO

Objective Completion Date: Dec 2015		HQMC C4	MFCC	MCSC	TECOM	MARFORs	MCRC	MCICOM	HQMC CD&I	HQMC PP&O	HQMC AR
Objective Owner: Hank Costa											
Task	**Target Completion**										
Task 3.D.1	Quarterly	A	C	C	I	C	I	R	I	I	I
Task 3.D.2	Mar 2015	R/A	C	C	I	C	I	I	I	I	I
Task 3.D.3	Dec 2015	R/A	C	C	I	C	I	I	I	I	I
Task 3.D.4	Annually	R/A	C	C	I	C	I	I	I	I	I

Line of Effort 3: Enterprise Services Management

Objective 3E Complete the Transition from CoSC to NGEN

NGEN is not a new network, but it is a change in the acquisition construct. The Marine Corps is collaborating with the DON and the Program Manager Naval Enterprise Network (PM NEN) team to transition from the CoSC contract to NGEN contract vehicles. This transition will enable a GO/GO network model that is contractor supported. CoSC will expire on 30 April 2014.

Task 3.E.1 Manage the influx of NGEN contractors arriving at each B/P/S
Task 3.E.2 Transition to the NGEN contract
Task 3.E.3 Discontinue CoSC

Objective Completion Date: Jun 2014		HQMC C4	MFCC	MCSC	TECOM	MARFORs	MCRC	MCICOM	HQMC CD&I	HQMC PP&O	HQMC AR
Objective Owner: Karl Hartenstine											
Task	**Target Completion**										
Task 3.E.1	Jun 2014	A	C	R	I	C	I	I	I	I	I
Task 3.E.2	Jun 2014	A	C	R	I	C	I	I	I	I	I
Task 3.E.3	Jun 2014	A	C	R	I	C	I	I	I	I	I

Line of Effort 3: Enterprise Services Management

Objective 3F Implement Marine Corps Enterprise Information Technology System (MCEITS)

The Marine Corps' net-centric capability will be enabled via the Enterprise Application Environment (EAE) and the Enterprise Services and Data Environment (ESDE) that will be instantiated in the Enterprise IT Centers (EITC). These program elements form the Enterprise Services Layer of the MAGTF C2 Framework. The EAE hosts and provides access to MCEITS-provided applications, as well as other enterprise-class services, via an Enterprise Portal Framework (EPF). The MCEITS services will allow the Marine Corps to deliver solutions by providing enterprise wide services. The ESDE provides the environment for net-centric interoperability by enabling the sharing of data and services, monitoring the enterprise-wide discovery of people, content and services. The overall MCEITS environment will be managed through the MCEITS Operations Center (MOC) Functional Mission that will be integrated into the MCNOSC.

MCEITS platforms will provide information access and collaboration capability for Marine Corps users and enable warfighting and business processes on both the NIPRNet and SIPRNet. MCEITS capabilities will be successively refined through Modeling and Simulation (M&S) and input from analysis conducted in the Systems Integration Environment (SIE) through a series of Pre-Planned Product Improvements (P3Is).

Task 3.F.1 Transition 14 Systems into MCEITS in FY14
Task 3.F.2 Conduct a technical refresh of the MCEITS EITC and SIE enclaves
Task 3.F.3 Build a secondary EITC at Marine Corps Base Camp Lejeune in FY15

Objective Completion Date: Sep 2016 **Objective Owner: Chris Granger**		HQMC C4	MFCC	MCSC	TECOM	MARFORs	MCRC	MCICOM	HQMC CD&I	HQMC PP&O	HQMC AR
Task	**Target Completion**										
Task 3.F.1	**Sep 2014**	A	C	R	I	I	I	I	I	I	I
Task 3.F.2	**Sep 2014**	A	C	R	I	I	I	I	I	I	I
Task 3.F.3	**Sep 2016**	A	C	R	I	I	I	I	I	I	I

Line of Effort 3: Enterprise Services Management

Objective 3G Implement Next Generation Enterprise Network (NGEN)

Task 3.G.1 Develop methodology for the distribution and tracking of enterprise software and licenses
Task 3.G.2 Plan to capture Baseline Software, Services, and Configurations for legacy networks
Task 3.G.3 Plan to subsume remaining legacy networks into the MCEN-N (NIPRNet)
Task 3.G.4 Plan to implement Enterprise VDI across the MCEN-N
Task 3.G.5 Subsume the Training and Education Command (TECOM), Marine Corps Recruiting Command (MCRC), and Legacy networks into the MCEN-N
Task 3.G.6 In coordination with CD&I, establish a MCEN-N AAO (Authorized Acquisition Objective) in the Total Force Structure Management System (TFSMS)
Task 3.G.7 Design, accredit, procure, and deploy a standard MCEN-N enterprise services stack solution at designated Installation Processing Nodes (IPN)

Objective Completion Date: Dec 2016		HQMC C4	MFCC	MCSC	TECOM	MARFORs	MCRC	MCICOM	HQMC CD&I	HQMC PP&O	HQMC AR
Objective Owner: Chris Granger/Karl Hartenstine											
Task	**Target Completion**										
Task 3.G.1	Dec 2014	A	C	R	I	I	I	I	I	I	
Task 3.G.2	Dec 2015	A	C	R	I	I	I	I	I	I	
Task 3.G.3	Mar 2015	A	C	R	I	I	I	I	I	I	
Task 3.G.4	Jun 2015	A	C	R	I	I	I	I	I	I	
Task 3.G.5	Mar 2016	A	C	R	I	I	I	I	I	I	
Task 3.G.6	Dec 2016	A	C	R	I	I	I	I	I	I	
Task 3.G.7	Dec 2016	A	C	R	I	I	I	I	I	I	

Line of Effort 3: Enterprise Services Management

Objective 3H Implement Secure Operational Network Infrastructure and Communication (SONIC)

Task 3.H.1 Capture the SONIC Product Baseline (PBLn)
Task 3.H.2 Design and Implement VDI across the garrison MCEN-S (SIPRNet)
Task 3.H.3 Establish a baseline core application list for the garrison MCEN-S
Task 3.H.4 Establishment of a garrison MCEN-S AAO for cryptographic equipment
Task 3.H.5 Establish an overall garrison MCEN-S AAO for software and hardware
Task 3.H.6 Design, accredit, procure, and deploy a standard garrison MCEN-S enterprise services stack solution at designated IPNs

Objective Completion Date: Dec 2016		HQMC C4	MFCC	MCSC	TECOM	MARFORs	MCRC	MCICOM	HQMC CD&I	HQMC PP&O	HQMC AR
Objective Owner: Chris Granger											
Task	**Target Completion**										
Task 3.H.1	Aug 2014	A	C	R	I	I	I	I	I	I	I
Task 3.H.2	Mar 2016	A	C	R	I	I	I	I	I	I	I
Task 3.H.3	Apr 2014	A	C	R	I	I	I	I	I	I	I
Task 3.H.4	Aug 2014	A	C	R	I	I	I	I	I	I	I
Task 3.H.5	Dec 2016	A	C	R	I	I	I	I	I	I	I
Task 3.H.6	Dec 2015	A	C	R	I	I	I	I	I	I	I

Line of Effort 3: Enterprise Services Management

Objective 3I Implement Base Telecommunications Infrastructure (BTI)

BTI provides acquisition, engineering, execution, and life-cycle support for Local Area Network/Base Area Network (LAN/BAN) equipment on Marine Corps installations.

Task 3.I.1 Develop policy to direct the integration of Dense Wavelength Division Multiplexing (DWDM) and Gigabit Passive Optical Network (GPON) into the BAN infrastructure
> **Sub Task 3.I.1a** Develop DWDM installation priorities in order to synchronize with MCICOM Military Construction projects (MILCON)
> **Sub Task 3.I.1b** Develop the requirements to establish DWDM and GPON as enduring capabilities requiring Lifecycle Sustainment (LCS) funding
> **Sub Task 3.I.1c** Publish an IRM that defines and illustrates the integration of the MCEN's current switching architecture with the newly acquired DWDM and GPON technology
> **Sub Task 3.I.1d** Establish the baseline training required for civilian and military personnel to operate and maintain DWDM and GPON technology
> **Sub Task 3.I.1e** Release a message directing the integration of DWDM and GPON technology into the MCEN on Marine Corps Installations

Task 3.I.2 In coordination with MCICOM, publish an IRM for BAN Management

Objective Completion Date: Dec 2014 Objective Owner: Maj Voneida		HQMC C4	MFCC	MCSC	TECOM	MARFORs	MCRC	MCICOM	HQMC CD&I	HQMC PP&O	HQMC AR
Task	**Target Completion**										
Task 3.I.1	Aug 2014	A	S	S	I	C	I	R	I	I	I
Sub Task 3.I.1a	Oct 2014	A	S	S	I	C	I	R	I	I	I
Sub Task 3.I.1b	Dec 2014	A	S	S	I	C	I	R	I	I	I
Sub Task 3.I.1c	Dec 2014	A	S	S	I	C	I	R	I	I	I
Sub Task 3.I.1d	Dec 2014	A	S	S	I	C	I	R	I	I	I
Sub Task 3.I.1e	Dec 2014	A	S	S	I	C	I	R	I	I	I
Task 3.I.2	Dec 2014	A	S	S	I	C	I	R	I	I	I

Line of Effort 4: Enterprise Service Portfolio Management

Objective 4A Develop plans and policies for the resourcing and sustainment of applications

In order to meet expected increased demand and further manage new technology insertions, an Application Management Plan will be created to enable governance of Marine Corps applications. This governance will ensure configuration control, sustainment, the phase out of legacy applications no longer supportable, define Software Asset Management (SWAM), and detail SWAM's implementation within the MCEN. This plan will address the development of cost effective changes and maintain operational security of the network, establish the procedures and guidelines, define responsibilities, specify requirements, and facilitate the implementation of standardized business practices.

Task 4.A.1 Identify a process owner for Application Management who will be tasked to refine "Centralized Application Management," which includes Software Asset and License Management for the Marine Corps in support of the DON initiative for cost savings

Task 4.A.2 Identify and develop application processes and procedures associated with SWAM to include Application Life Cycle for desktop, server, and tactical applications and licenses

Task 4.A.3 Develop an Applications Management Process Guide that outlines the inclusion, testing, certification and sustainment of both commercial off the shelf (COTS) and government off the shelf (GOTS) Software. This will include third party applications used in development of IT-related Programs of Record (POR) with MCSC's Product Manager (PdM) Marine Corps Enterprise Services (MCES)/Strategic Application Management (SAM).

Task 4.A.4 Develop Applications Management Governance that generates policies and fiscal implementation of the processes defined in the Application Management Process Guide

Task 4.A.5 Identify training requirements for SWAM and License Management at the Tier Levels

Task 4.A.6 Maintain accurate IT inventories of the Marine Corps IT Portfolio (a collection of COTS, GOTS, and joint systems/applications used within the MCIENT and certify annual review of all IT systems and applications registered in DoD Information Technology Portfolio Repository (DITPR)-DON and DON Application and Database Management System (DADMS)

Objective Completion Date: Apr 2015		HQMC C4	MFCC	MCSC	TECOM	MARFORs	MCRC	MCICOM	HQMC CD&I	HQMC PP&O	HQMC AR
Objective Owner: Hank Costa											
Task	**Target Completion**										
Task 4.A.1	July 2014	R/A	C	C	I	C	I	C	I	I	I
Task 4.A.2	Aug 2014	R/A	C	C	I	C	I	C	I	I	I
Task 4.A.3	Oct 2014	R/A	C	S	I	C	I	C	I	I	I
Task 4.A.4	Nov 2014	R/A	C	S	I	C	I	C	I	I	I
Task 4.A.5	Dec 2014	R/A	C	S	I	C	I	C	I	I	I
Task 4.A.6	Apr 2015	R/A	C	C	I	C	I	C	I	I	I

Appendix A: References

CJCSI 3170.01H Joint Capabilities Integration and Development System 10 Jan 2012

DoDI 8100.04 DoD Unified Capabilities Master Plan

MCIENT Strategy 14 Dec 2010

Marine Corps Unified Capabilities Implementation Plan 22 Nov 2013

MCO 5311.6 Advocate and Proponent Assignment and Responsibilities 2 Dec 2013

MCO 5230.20 Marine Corps Enterprise Architecture 22 Aug 2011

MCO 5230.21 - IT Portfolio Management 3 Oct 2012

MCO 5271.1B Information Resources Management (IRM) Standards and Guidelines Program 1 Dec 2011

MCO 3100.4 Cyber Space Operations 27 Jul 2013

IRM 2300-1 MCEN Supporting Establishment Concept of Employment MCEN (SE) COE

IRM 2300-2 Service Catalog Management

NGEN CPD 2 Feb 2012 v1.5.6

NGEN System Design Specification 20 Mar 2009

USMC NGEN Core Transition Plan 30 May 2012 v1.0

SONIC CPD 10 Dec 2013

MCEITS CPD 20 May 2010

BTI SON 1 Dec 2010

Joint Information Environment White Paper22 Jan 2013

Joint Information Environment Concept of Operations 25 Jan 2013

MROC DM 04-2009 Marine Corps Garrison Networks Transition and Realignment

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Phone: 202/994-7000, Fax: 202/994-7005, nsarchiv@gwu.edu