M&S Requirements
To Support The QDR

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**M&S Requirements To Support The QDR**

*Unclassified*

**USMC, MCCDC**
Quantico, VAxxxxx

**United States Department of Defense**
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1901 N. Beauregard St., Suite 500
Alexandria, VA22311-1705

**A PUBLIC RELEASE**

*Fenster, Lynn*  
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**Public Release**  
31

**Fenster, Lynn**

**International Area Code**  
703767-9007  
DSN 427-9007

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**REPORT DOCUMENTATION PAGE**

**1. REPORT DATE (DD-MM-YYYY)**  
01-06-2002

**2. REPORT TYPE**  
Briefing

**3. DATES COVERED (FROM - TO)**  
xx-xx-2002 to xx-xx-2002

**4. TITLE AND SUBTITLE**  
M&S Requirements To Support The QDR

**5. AUTHOR(S)**  
Akst, George

**6. PERFORMING ORGANIZATION NAME AND ADDRESS**  
USMC, MCCDC
Quantico, VAxxxxx

**7. SPONSORING/MONITORING AGENCY NAME AND ADDRESS**  
United States Department of Defense
Defense Modeling and Simulation Office
1901 N. Beauregard St., Suite 500
Alexandria, VA22311-1705

**12. DISTRIBUTION/AVAILABILITY STATEMENT**  
A PUBLIC RELEASE

**13. SUPPLEMENTARY NOTES**

**14. ABSTRACT**

? The 21st Century Marine Corps ? Issues for the QDR ? Tools to address those issues ? USMC organization for the QDR

**15. SUBJECT TERMS**

**16. SECURITY CLASSIFICATION OF:**

<table>
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<th>a. REPORT</th>
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<tbody>
<tr>
<td>Unclassified</td>
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**17. LIMITATION OF ABSTRACT**

Public Release

**18. NUMBER OF PAGES**  
31

**19. NAME OF RESPONSIBLE PERSON**  
Fenster, Lynn  
lfenster@dtic.mil

**19b. TELEPHONE NUMBER**

International Area Code  
703767-9007  
DSN 427-9007
OUTLINE

• The 21st Century Marine Corps

• Issues for the QDR
  – Tools to address those issues

• USMC organization for the QDR
WARFIGHTING CONCEPT

Expeditionary Maneuver Warfare - 21

- Operational Maneuver From the Sea (OMFTS)
- Other Expeditionary Operations
- MPF (Future)
- Sustained Ops Ashore
- Ship to Objective Maneuver
- Seabased Logistics
EXPEDITIONARY MANEUVER WARFARE - 21 (EMW-21)

- Marine Corps’ capstone operational concept
- Emphasizes maneuver warfare in any clime or place
- Focus is on operational objective
  - No longer views establishing force beachhead as an intermediate objective
- Complements JV 2010 and Navy Operational Concept
- Spans Spectrum of Conflict
OMFTS: The Vision

Decision Point
(approx. 24 hrs out)

Launch Point

≥25 - 100 NM
~400 - 500 NM *

* Based on an SOA of ~20 KTs

*LPA
Richmond

LPA
Jersey

NEF
OBJ C

NEF
OBJ B

NEF
OBJ A

Charleston

Lauch Point

(DECEPTION??)

(Demonstration??)

* Based on an SOA of ~20 KTs
THE WAY WE ARE...
THE WAY WE NEED TO BE (STOM)

CURRENT

OBJECTIVE

Force Beach Head Line

Operation Pause

FUTURE (STOM)

OBJECTIVE 1

OBJECTIVE 2
OUTLINE

- The 21st Century Marine Corps
- **Issues for the QDR**
  - Tools to address those issues
- USMC organization for the QDR
Issues for the QDR

Defense is less than 3% of GDP

Is that adequate to maintain superpower status?

- Implementation of EMW and OMFTS
- Dynamic Commitment
  - DEPTEMPO
- Force Structure
- Future systems
  - JSF; AAAV; MPF(F); LHA(R)
- Value of engagement / forward presence
### Implementation of EMW & OMFTS

**Mission Area Analyses (MAA)**

**Summary of Scenarios**

<table>
<thead>
<tr>
<th>Scenarios</th>
<th>MAGTF Size</th>
<th>Concept</th>
<th>Means of Deployment</th>
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<tbody>
<tr>
<td>#1 NEO</td>
<td>MEU</td>
<td>OEO</td>
<td>ARG</td>
</tr>
<tr>
<td>#2 MTW Amphib</td>
<td>MEF</td>
<td>OMFTS</td>
<td>ATF</td>
</tr>
<tr>
<td>#3 MTW Ashore</td>
<td>MEF</td>
<td>SOA</td>
<td>MPF</td>
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<tr>
<td>#4 MOOTW SLOC</td>
<td>MEF (Fwd)</td>
<td>OMFTS</td>
<td>MPF/ATF</td>
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<tr>
<td>#5 MTW-CSS</td>
<td>MEF (Fwd)</td>
<td>SOA/OMFTS</td>
<td>MPF</td>
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<tr>
<td>#6 OMFTS 2015</td>
<td>MEF</td>
<td>OMFTS</td>
<td>ATF</td>
</tr>
<tr>
<td>#7 OMFTS Operational Reach</td>
<td>MEF</td>
<td>OMFTS</td>
<td>ATF</td>
</tr>
<tr>
<td>#8 Scalability of MAGTFs</td>
<td>MEU---&gt;MEF</td>
<td>Responsiveness</td>
<td>ARG, MPF, ATF</td>
</tr>
<tr>
<td>#9 Small scale contingency</td>
<td>TBD</td>
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<tr>
<td>#10 TBD</td>
<td>TBD</td>
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Scenario #s 1 - 7 are developed.
Current MAA Modeling & Simulation Tool Suite

VIC
- ARMY’s Primary Analytic Model (Corps/Div)
- Has extensive C4ISR & ground combat capabilities
- Amphibious module in development

GCAM
- NAVY’s Primary Analytic Model
- Flexible tool capable of integrating results from other models

EXTEND
- Commercial, graphical block-based simulation
- Developed in-house flight- and well-deck operation model
- Potential use of ONR-sponsored TLoaDS
  - A tactical supply distribution simulation
Dynamic Commitment
MCFADS
DEPTEMPO

Building detailed deployment database
1989 - present

• Windows, Access-based

• Tracks all routine and contingency operations

• Includes
  – Time periods, units/dets, characterization of operation, numbers of people and major equipment, deployment means
Force Structure

- Sizing the Corps

Dynamic Commitment

Stochastic simulation
OUTLINE

• The 21st Century Marine Corps

• Issues for the QDR
  – Tools to address those issues

• USMC organization for the QDR
Marine - Navy Coordination

D/CMDT PPO
LtGen Bedard

Deputy for QDR
MG Magnus

Colonel’s Group
Col Priddy

N3/N5

DIR, STRATEGY & POLICY
(N51)

QDR Planning Group

QDR Working Groups

Monthly

Bi-Weekly

As Required
BACKUPS
OMFTS

- Troops
- Equipment

Objective
SHIP TO OBJECTIVE MANEUVER (STOM)

- Dilute the enemy by enlarging the battlespace
- Create combined arms maneuver
- Control tempo / overwhelm adversary
- Control vital area by fighting outside it
- Maneuver to cause an exploitable reaction
TENETS OF SEABASED LOGISTICS

- Primacy of the Sea Base
- Reduced Demand
- In-stride Sustainment
- Adaptive Response and Joint Operations
- Force Closure and Reconstitution at Sea
SEABASED LOGISTICS: FUTURE CAPABILITIES

Essential Future Operational capabilities of Seabased Logistics:

- Ship to Objective Logistics
- Selective Offload
- Strategic Logistics Interface
- Seabased Intermediate Maintenance
- Joint Interoperability
MPF (F) SYSTEM DESCRIPTION

- Replaces current MPF (including MPF(E))
- Strategic prepositioning to **support** tactical employment of a MEB - MOOTW to forcible entry
- Removes reliance on in-theater ports & airfields
- Provides Assault Echelon Reinforcement & Sustainment (AERS) capabilities
MAA Capabilities

Naval Tactical Task List
(Task Lists = Capabilities + Missions)

Add:
+ MAGTF emphasis

Delete:
- Mission-type tasks
- USN specific tasks

MAA Capabilities

“Scaleable Hierarchy”
of Capabilities, Tasks
& Sub Tasks

NTTL
Derived 88 generic MOEs which broadly cover the gamut of capabilities
Defined what we would like to measure

Capabilities, MOEs & Scenarios . . .
. . . provide analytically sound framework
Examples of Current MOEs

**Firepower**
- Blue systems destroyed
- Red systems destroyed

**Intelligence**
- Target detections

**Logistics/CSS**
- Amount of supply class delivered

**Maneuver**
- Time to seize key objectives
- Time to detect, breach, clear, or avoid obstacles

**Protect the Force**
- Number of units undetected by enemy

**Command and Control**
- Sensor-to-Shooter time delays

Living List, expanded as required to support your programs/issues
MAA Functional Areas

1. Deploy/Conduct Maneuver
2. Develop Intelligence
3. Employ Firepower
4. Perform Logistics & CSS
5. Exercise C²
6. Protect the Force

Broad Categories of Capabilities
MAAs are used to identify deficiencies that may result in a need to:

- Change doctrine, tactics, training organization;
- Fix shortcomings in existing material;
- Introduce new operational capabilities

ONLY USMC Org doing combat modeling analysis
Issues to Focus Analysis

- Impact of distance on the ability to deliver an OMFTS force ashore
  - Limits of reach to deliver a force
  - Operational impacts

- Impact of distance on seabased logistics
  - Adequacy of air resupply
  - Adequacy of air resupply with loss in carrying capacity

- Impact of distance on fires
  - Adequacy of NSFS
    - Conventional munitions
    - Advanced munitions
  - Adequacy of artillery
  - Adequacy of close air support
MARINE CORPS FORCE ALLOCATION AND DEPLOYMENT SYSTEM

PLAYER OPTIONS

- PREGAME ACTIVITIES: BUILD Tables
- ASSIGN FORCES/UNITS TO MAGTFs
- COMMIT FORCES/UNITS
- REDEPLOY/RECOMMIT FORCES/UNITS
- VIEW FORCES/UNITS (View Underlying Tables)
- PREVIEW Reports
- EXIT MCFADS

DEVELOPER OPTIONS

- CHANGE Switchboard ITEMS

MCFADS: The preferred force tracking tool developed for Dynamic Commitment 2000
QDR-01 Transition

DC Game Team
- 3 Cols
- 15 LtCol/Maj
- CNA Analyst

Today

Election

Inauguration

Report 30 Sep 01

PPO "owns the process, not the bodies"

PPO may have to own the bodies

NSS-01

QDR Preparation (JS Panels)

QDR-01

Task Force

Preparation Team (Matrix)

BG Cortez
Col Todsen
Mr Crangle (UNITECH)
JS Panel Reps
SSG (8 Maj's)
CNA Analyst
Contractor

Preparation Team (Matrix)

MG Magnus
Col Priddy
Mr Crangle
Col Leads
JS Panel Reps
SSG (8 Maj's)
CNA Analyst
Contractor