

UNIVERSAL NEED STATEMENT (UNS)

CDTS Short Title

Marine Corps Enterprise IT Services

CDTS#

Date CDTS # assigned

PURPOSE

The completed Universal Need Statement is the most important information component in the Expeditionary Force Development System (EFDS). As the primary means of entry into the EFDS, the UNS acts as a "work request" for current and future capabilities within the EFDS. The UNS identifies operational enhancement opportunities and deficiencies in capabilities. Opportunities include new capabilities, improvements to existing capabilities, and elimination of redundant or unneeded capabilities. "Universal" highlights its common use by any Marine Corps organization to capture both current needs and future needs developed through analysis, assessment, and experimentation with future warfighting concepts.

All Universal Need Statements are entered into a web-based format for tracking purposes. The link for the Combat Development Tracking System (CDTS) web site is <https://www.cdts.marcorssyscom.usmc.mil>. Please ensure the letter "s" is included in the URL (https). For access to the web site, or if further information is required regarding this processing and status of your submission, please contact the Capabilities and Assessment Branch (CAB) CDTS representative.

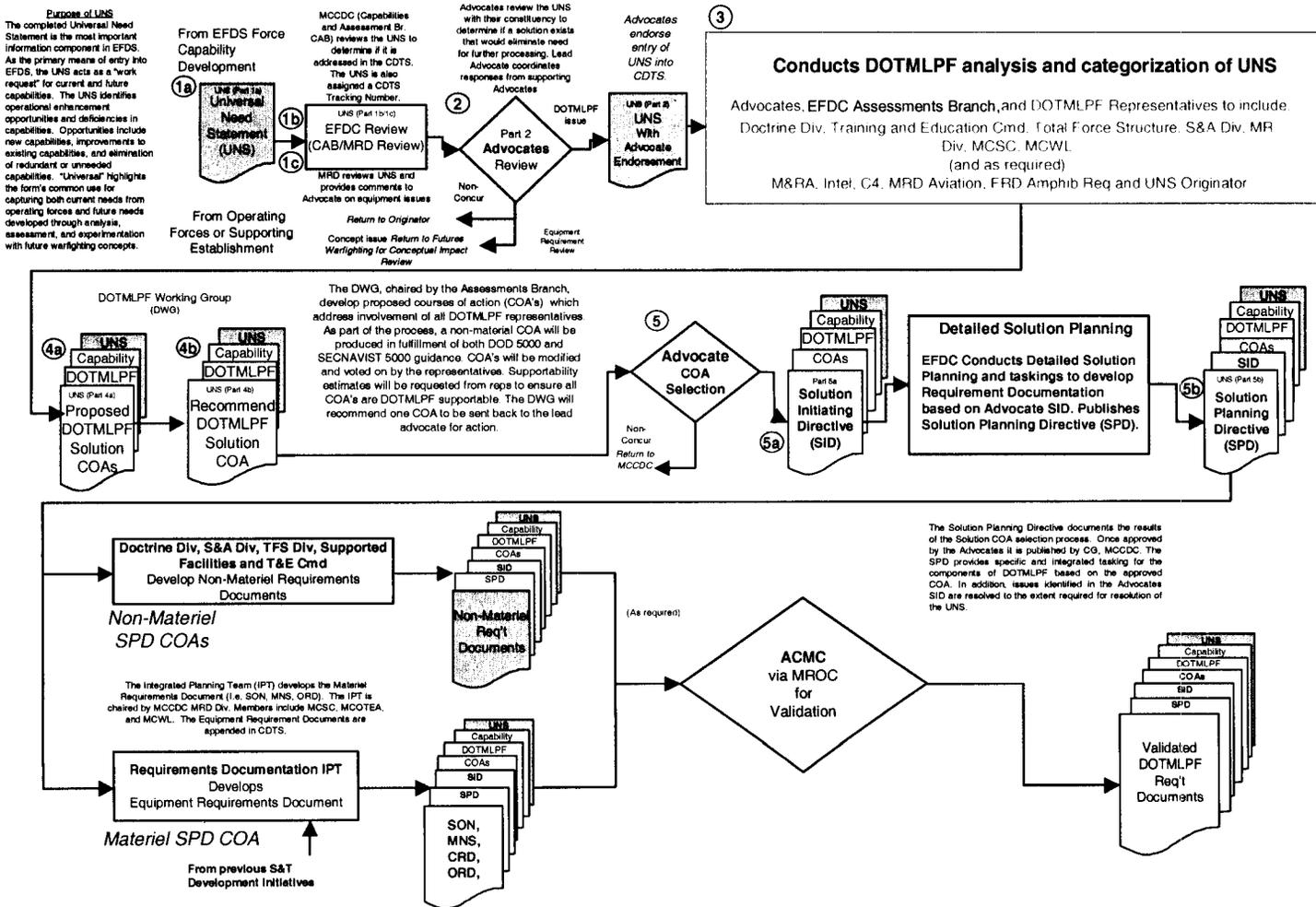
Current personnel assigned to CAB, phone numbers, E-mail addresses can be found under <http://www.mccdc.usmc.mil/> by clicking on the CAB link.

Listed below is the UNS Development Path. Please see page 5 for further submission instructions.

Requirement Development

Version 5.1
(updated 21 Aug 2002)

UNS Development Path - "From Need Identification to Validated Requirement in a 5 part form"



**UNIVERSAL NEED STATEMENT (UNS)
Part 1a of 5 - Originator's Request**

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Originator

Name (Last, First, Initial) Brady, Frank X.	Rank/Grade LtCol	Phone (703)693-9970/1 DSN 223	FAX (703)695-0315 DSN 225
Available for phone or personal follow-up? Yes	Interested in participation on Solution Course of Action IPT? Yes	Request UNS status updates by e-mail? Yes	E-mail bradyfx@hqmc.usmc.mil
			RUC

Type of Need (select one that best describes the need)

ADD a new capability that does not exist	<input checked="" type="checkbox"/>	IMPROVE or FIX an existing capability	<input type="checkbox"/>	REMOVE an existing capability	<input type="checkbox"/>
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Description of Need Describe the nature of the need and the cause (if known). Explain how the need was identified (operational deployment, training exercise, experimentation, formal study, mission area analysis, observed operating deficiencies).

The Marine Corps' Information Technology (IT) infrastructure is characterized by a highly decentralized set of applications, web-sites, and databases supported by a manpower intensive workforce. Standardization, security, and system configuration management has proven extremely difficult. The Navy-Marine Corps Intranet (NMCI), a component of the Marine Corps Enterprise Network (MCEN), will bring improvements to network connectivity and throughput. The Marine Corps must leverage these enhanced capabilities to realize a greater return-on-investment (ROI) with respect to NMCI. Maintaining disparate IT staffs at numerous locations across the Marine Corps is expensive, inefficient, and unsustainable. Certain IT services are common to many users of the MCEN. These common services include such things as messaging, security, collaboration, infrastructure management, application development, testing and certification services, help desk support, continuity of operations planning (COOP), and perhaps most significantly access to shared data. The Marine Corps needs to develop a common IT enterprise services environment that consists of platforms to support shared services, an Enterprise Shared Data Environment (ESDE), web-based portal technology, and enterprise class data centers. The ESDE is a combination of data stores, data warehouses, applications, and systems that when accessed would enable viewing and analysis of authoritative enterprise data in an integrated fashion. Web-based portal technology would aggregate services to a central access point, and would support the goals of web-enablement of software applications, and provide expeditious access to the relevant content of the SDE. Consolidation of IT resources such as databases, application and web servers into enterprise class data centers offers an opportunity to physically instantiate the ESDE, provide a robust reach back capability to deployed forces, and significantly improve enterprise software application spiral development, testing, and fielding, as well as data and information management practices. Development of a common IT enterprise services environment is required to foster common situational awareness and help achieve information superiority.

When Needed

URGENT	<input type="checkbox"/>	6 Months	<input type="checkbox"/>	1 Year	<input checked="" type="checkbox"/>	2 Years	<input type="checkbox"/>	5 Years	<input type="checkbox"/>	10 Years	<input type="checkbox"/>	Other (date)	<input type="checkbox"/>
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Rationale Describe why the need requires resolution in timeframe selected (e.g., safety issues, Congressional mandate, etc.)

- NMCI transition in FY04/05 has forced the Marine Corps to evaluate how we currently build, test, deploy, and update applications. Unconstrained software proliferation, ad-hoc software development, and inherently insecure applications are not supportable in this highly structured and disciplined environment.
- Rapid pace of technological advancements and the demands of users for advanced software require a stable, agile, and responsive infrastructure.
- Limited personnel and funding dictates that IT services be provided in the most effective and efficient means possible.
- The development of an enterprise shared data environment, deployment of portal technology, implementation of advanced security technologies such as Smart Cards, single sign-on services, and Bio-metrics requires a robust infrastructure that enterprise data centers would provide.
- The emergence of the Global Information Grid Enterprise Services GIG-ES, providing core sets of DOD wide data services (i.e. meta data repositories, discovery and mediation services, collaboration services) demands a stable IT infrastructure, consistently managed by a highly skilled workforce.

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Describe mission or task to be accomplished that is related to the need.

In conjunction with key stake holders, the Marine Corps C4/CIO is responsible for developing an enterprise IT strategy that results in reliable, secure, consistent access to authoritative data for both garrison and deployed forces. Additionally the CIO must develop a supporting policy and governance structure that encourages appropriate behaviors, clarifies roles, responsibilities, and permissions of users, communities of interest, and supporting/supported commands and organizations.

C4/CIO envisions a multi-phased approach to achieving this end-state of provisioning enterprise data centers. Phase one will be a physical co-location of websites, applications and equipment (servers, switches, routers, etc) required to support centralized/regionalized operations. Phase two will be substantially more complex than phase one, addressing not only the physical consolidation of computing assets, but also the rationalization of applications, the identification of authoritative data elements, the elimination of redundant or obsolete data and the transition to a web-based applications environment. In concert with the consolidation efforts, complementary data management activities will continue with a focus on developing an enterprise data model, laying the foundation for data mining, analytics and advanced simulation. The Marine Corps data management effort must be completely consistent with the DOD GIG-ES and the net-centric data strategy.

How does the need improve your ability to perform the mission or task?

The creation of a SDE and data centers optimizes manpower through pooling and synergy of limited IT-skilled uniformed and civilian personnel, reduces cost, and improves access to data and information services. Specifically this need will:

- Significantly improve development, oversight, management, and expedite deployment of applications.
- Dramatically reduce the number of applications/web-hosting sites/database servers currently deployed throughout the USMC.
- Reduce the number of support personnel required for application and web hosting, thus allowing greater focus on core missions.
- Enable high-quality 24/7 technical support.
- Provide stable and secure facilities for Advocates and MARFOR's to host applications, web pages, and databases.
- Retain the prerogative of the content developer or provider, allowing the manipulation of content and the presentation of data in a relevant manner.
- Significantly improve security and our ability to respond to security incidents.
- Eliminate stovepipe redundant development by making application logic and data available to all users across the enterprise in a secure manner.
- Employ latest server technology and maximize processor usage.
- Execute functionality focused, efficient application portfolio.
- Dramatically reduce the time required to develop, deploy, certified and accredit applications.
- Allow functional sponsors to focus on application logic development and automating processes.
- Support deployed forces through reach back and COOP services.

If the need is not satisfied, how will it affect your ability to perform the mission or task?

The present IT environment inefficiencies and associated high costs will continue to plague the USMC. The thousands of application servers spread across numerous locations will continue to be decentrally operated by a limited pool of Marines, GS employees, and contractors. The Marine Corps will fail to reap the benefits of the NMCI network, and we will be poorly positioned to implement emerging technologies and concepts. Security vulnerabilities will continue to be commonplace, and application configuration management will continue to be very difficult.

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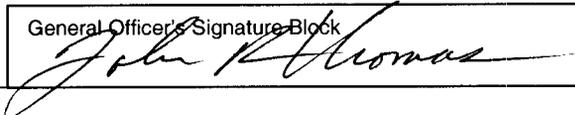
Approval Authority – Regimental Level or as appropriate (Battalion, Squadron, etc.)

Command	Name of Approval Authority (Last, First, Initial)	Rank/Grade
Mailing Address	Phone	FAX
	E-mail	
	Date Received	Date Forwarded
Approval Authority Comments (optional)		
Signature Block		

Approval Authority – MEF Level or as appropriate (Division, Wing, Service Support Group, etc.)

Command	Name of Approval Authority (Last, First, Initial)	Rank/Grade
Mailing Address	Phone	FAX
	E-mail	
	Date Received	Date Forwarded
Approval Authority Comments (optional)		
Signature Block		

Approval Authority – MARFOR Level or as appropriate*

Command HQMC, Director C4	Name of Approval Authority (Last, First, Initial) Thomas, John R.	Rank/Grade BGen
Mailing Address Commandant of the Marine Corps (C4) 2 Navy Annex Washington, DC 20380-1775	Phone DSN 223-3462	FAX
	E-mail thomasjr@hqmc.usmc.mil	
	Date Received 11 June 2003	Date Fwd'd to Assessment Br, MCCDC
Approval Authority Comments (optional)		
General Officer's Signature Block 		

*As applicable, MARFOR endorsement required prior to entry into CDTS.

NOTES:

1. Issues should be forwarded to CG MCCDC via respective chains of command.
2. Issues require one General Officer's signature (at any level i.e. MARFOR, MEF, Div/Wing/FSSG, etc.) to be processed. It is required that MARFOR's get visibility of all issues. MARFOR endorsement may be COS, or EA for Divisions within HQMC.
3. A disk copy should be forwarded through the chain of command along with the hard copy in case changes need to be made.
4. Additionally, please forward an electronic copy to the Capabilities and Assessments Branch (CAB), WDID, MCCDC. CAB will store this copy as a "warning order" until they receive the hard copy (routed through your chain of command) with a General Officer's signature.
5. Upon receipt of the hard copy, the UNS will be entered it into the Combat Development Tracking System (CDTS) and staffed for appropriate review. CAB will also send an "e-mail acknowledgement" to the originator. This e-mail will include an assigned CDTS Title and Identity Number for tracking purposes on the CDTS web site. Information concerning the routing process of the UNS can be viewed on the first page of this form.
6. The link for the Combat Development Tracking System (CDTS) web site is <https://www.cdts.marcorsyscom.usmc.mil>. Please ensure the letter "s" is included in the URL (https). For access to the web site, or if further information is required regarding this processing and status of your submission, please contact the Capabilities and Assessment Branch (CAB) CDTS representative.
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