

MEMORANDUM OF UNDERSTANDING

BETWEEN

PROJECT MANAGER, UNIT OF ACTION NETWORKS' SYSTEMS INTEGRATION
(UA NSI),
U.S. Army

AND

DIRECTOR, SYSTEMS ENGINEERING AND INTEGRATION (SE&I), MARINE
CORPS SYSTEMS COMMAND
U.S. Marine Corps

SUBJECT: Joint Cooperation in Achieving Interoperability between Marine Corps and FCS Unit of Action Command, Control, Communications, Intelligence, Surveillance and Reconnaissance (C4ISR) Systems

Purpose: This Memorandum of Understanding (MOU) is to codify the joint commitment to:

- 1) Establish a process and schedule to identify and prioritize Marine Corps systems complementary to the FCS program.
- 2) Provide a framework for Marine Corps participation and insight into the FCS program in order evaluate the potential to leverage FCS C4ISR developments for adoption by the Marine Corps.
- 3) Initiate a more extensive Memorandum of Agreement (MOA) once the investigations of items 1 and 2 above have been accomplished.

NOTE: It is envisioned that this MOA signed at the Program/0-7 level will address the long term commitment of the Marine Corps to the FCS program and address involvement in areas outside of C4ISR to include test and vehicle requirements etc...

Scope: This memorandum addresses only cooperation with respect to C4ISR systems.

Background: The FCS Key Performance Parameter #1, Net Ready, requires the Unit of Action (UA) to have interoperability with Joint, Inter-agency and Multinational systems. Of high importance within that requirement is interoperability with Marine Corps Ground forces and their augmenting aviation. While appendix J (OV-3) of the FCS Operational Requirements Document (ORD) provides high level Information Exchange Requirements (IERs) for Joint Forces, the operational and functional analysis has not been completed to sufficient detail to establish an operational and architectural basis for selecting which Marine Corps C4ISR systems for which the UA must be interoperable. The Marine Corps systems currently identified in FCS program documentation requiring an FCS Interface include: Mounted Cooperative Target

Identification System (MCTIS), Tactical Combat Operations System (TCO), Command and Control Personal Computer (C2PC), Data Automated Communications Terminal (DACT), and Intelligence Analysis System (IAS). However due to MC program realignment, the baseline list of Marine Corps Systems being evaluated for FCS Interoperability are:

- Intelligence and Operations Server V1 (IOS V1)- Operations functions
- Intelligence and Operations Server V1 (IOS V2)- Intelligence functions
- Common Aviation Command and Control System (CAC2S)
- Marine Corps Target Identification System (MCTIS)
- Command and Control Personal Computer (C2PC)

However, this list should not be considered definitive until an operational architecture has been jointly defined and all systems have been approved by the FCS CCB process.

Terms and Definitions: The Army has selected the Boeing Company and its partner, Science Applications International Corporation, SAIC, to be its Lead Systems Integrator (LSI) and has formed a partnership for the joint management of the FCS C4ISR Integrated Product Team (IPT) called "The One Team". Any reference to the "The One Team" implies both PM UA NSI and its LSI counterparts.

Responsibilities:

Joint Responsibilities:

- Present a unified front to the Training and Doctrine Command (TRADOC) and the Marine Corps Combat Development Command (MCCDC) in the form of a joint letter or other communications requesting the analysis and development of the requirements products necessary to establish an operational basis for the selection of Marine Corps C4ISR systems for FCS interoperability.
- Conduct an accelerated analysis of the architecture and IERs to provide an operational basis for the selection of Marine Corps interoperability systems.. The agreed upon methodology for the accomplishment of this task is to form an ad-Hoc working group comprised of the One Team Architectures group and the MARCORSYSCOM SE&I Architecture Team to review all FCS Integrated Processes (IPs) and develop a notional architecture for applicable IPs for TRADOC and MCCDC review.
- Initiate the development of Memorandum of Agreement(s) that will facilitate the development of Interface Control Documents and sharing of technical information between applicable Marine Corps Systems and FCS

PM UA NSI or "One Team" will:

- Provide Program technical and requirements documentation to MARCORSSYSCOM on the FCS Program as requested.
- Establish two positions within PM UA NSI (initially to be filled by a Marine Corps Officer and a Support contractor) to facilitate the FCS and Marine Corps Joint interoperability in FCS C4ISR development. The exact positions of the MARCORSSYSCOM funded personnel and their responsibilities will be jointly negotiated on an individual basis. Location of these positions will be at FT Monmouth, NJ.
- Provide office space, building access, and automation support as well as access to C4ISR technical reviews and meetings to two Marine Corps Systems Command (MCSC) representatives (initially filled by MCSC funded support contractors) in the LSI's Huntington Beach facility. Duration and limits of access will be mutually agreed upon.
- Evaluate the potential for the Marine Corps to hold positions on the FCS Testing & Evaluation (T&E) IPT (one for Developmental Testing (DT) and one for Operational Testing (OT)) when Marine Corps systems and resources are involved. [Finalization of these positions is more likely a subject of the proposed MOA-given the distant nature of these events]
- Establish a single POC for the execution of this MOU
- Provide Access to the FCS Advanced Collaborative Environment (ACE) to select MARCORSSYSCOM personnel.

MARCORSSYSCOM will:

- Request documentation required from FCS
- Provide and fully fund the personnel to fill the four positions established by PM UA NSI and the Boeing LSI as described in the PM UA NSI/One Team responsibilities above. The exact positions and responsibilities will be individually negotiated.
- Evaluate the need and resources required to provide personnel to support positions on the FCS T&E IPT (one for DT and one for OT) when Marine Corps systems and resources are involved.
- Establish a single point of contact for the execution of this MOU.
- Identify minimum essential personnel requiring access to the FCS ACE
- Permit and manage the use of the Camp Pendleton Integration and Test Facilities to meet the needs of the FCS Program.

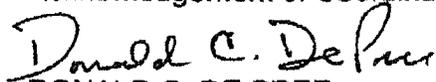
MOU Management

~~Identify minimum essential personnel requiring access to the FCS ACE.~~

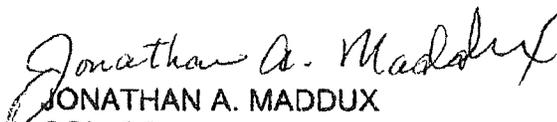
MOU Management

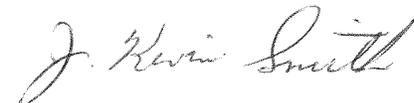
- **Effective Date.** This Agreement becomes effective upon the date of the last approving signature and will remain in effect until superseded, amended or terminated.
- **Termination.** This Agreement may be terminated by either party but will require 90 day written notification .
- **Amendments.** Amendments to this MOU may be made at any time by mutual consent of both parties.
- **Annual Review.** Review of the provisions of this MOU will be made annually at least 120 days before the anniversary of the effective date.

Acknowledgement of Coordination:


DONALD C. DE PREE
Director, FCS C4ISR
Future Combat Systems LSI

Approved by;


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COL, SC
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J. KEVIN SMITH
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