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COMPUTERS AND INTELLIGENCE AND SPACE
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PEO C4I AND SPACE
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COMSPAWARSYSCOM
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MEMORANDUM OF AGREEMENT
BETWEEN
COMMANDER, SPACE AND NAVAL WARFARE SYSTEMS COMMAND
AND
PROGRAM EXECUTIVE OFFICER, COMMAND, CONTROL, COMMUNICATIONS,
COMPUTERS AND INTELLIGENCE AND SPACE
AND
UNITED STATES AIR FORCE ELECTRONIC SYSTEMS CENTER

Subj: COOPERATION AGREEMENT FOR NET-CENTRIC ENTERPRISE
SOLUTIONS FOR INTEROPERABILITY (NESI)

1. Purpose. The purpose of this Memorandum of Agreement (MOA) is to implement a common technical position between Navy and Air Force C4I stakeholders. This agreement defines the roles and responsibilities of the commands and program offices that are collectively participating with the research, development, production, integration, and implementation of Net-centric Enterprise Solutions for Interoperability (NESI).

2. Background. The traditional approach to application development has resulted in multiple stove-piped systems. Platform-unique integration solutions tailored for service-unique architectures complicate interoperability challenges. In an effort to increase the amount of integrated and interoperable systems across the DoD, multi-service development guidance needs to be created, agreed upon, and implemented by the military services and agencies. The present efforts by PEO C4I and Space, ESC, and COMSPAWARSYSCOM to implement NESI are consistent with and incorporate the concepts of the Defense Information Service Agency Global Information Grid-Enterprise Service (DISA GIG-ES). The Air Force and Navy efforts are to be complementary to the multi-service GIG-ES Joint activities also under way.

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SOLUTIONS FOR INTEROPERABILITY (NESI)

NESI is not a new program; it will build upon the work already accomplished by the PEO C4I and Space and ESC teams. The NESI effort will consolidate the PEO C4I and Space Reusable Application Integration and Development Standards (RAPIDS) project and ESC's Command and Control Enterprise Reference Architecture (C2ERA). This collaboration between the Navy and the Air Force has the aim of defining the application development standards to be followed, at a minimum, by Navy and Air Force C2/C4I programs.

3. Scope. This agreement covers the development and implementation of the NESI discipline.

4. Policy. An Integrated Product Team (IPT) structure will support the project management, development, and implementation of NESI. Multiple Working Level IPTs (WIPTs) will be led by a designated program office and staffed by representatives from the participating services. The NESI WIPTs will develop a common network centric architecture for the enterprise, common compliance criteria, and implementation guidance. Enforcement mechanisms may be unique to each service or program. The NESI WIPTs will consist of an Enterprise Reference Architecture (ERA) Construction IPT, Compliance and Implementation Guidance IPT, Design Patterns IPT, Code Samples IPT, Mechanisms IPT, and Legal/Contracts IPT. The NESI WIPT team leads will be responsible for:

- (a) Technical interchange among the program offices.
- (b) Conflict resolution.
- (c) Direction and consensus among WIPT members.
- (d) Preparation and review of applicable documentation and briefs.
- (e) Recommending the addition and restructuring of other WIPTs as necessary.

5. Roles and Responsibilities. PEO C4I and Space will lead the IPTs for Legal/Contracts, Design Patterns, and Code Samples. ESC Hanscom will lead the IPTs for Architecture Construction, Compliance and Implementation Guidance, and Compliance Checking Mechanisms. The overarching IPT, chaired by PEO C4I and Space, ESC, and COMSPAWARSSYSCOM may form new IPTs and select service leads as necessary.

Subj: COOPERATION AGREEMENT FOR NET-CENTRIC ENTERPRISE
SOLUTIONS FOR INTEROPERABILITY (NESI)

COMSPAWARSSYSCOM will have responsibility for synchronizing NESI with the FORCENet Architecture and Standards and for implementing across the Navy's C4I community. ESC will take the lead for implementing across the Air Force C2 and CS communities. ESC and COMSPAWARSSYSCOM will jointly take the lead on coordinating NESI efforts with the Air Force Command and Control Constellation (C2C) initiative.

6. Deliverables and Milestones.

- (a) Management briefing - Available 1 October 2003
- (b) Code samples - Available 1 October 2003
- (c) Technical criteria checklist - Draft: 1 October 2003
- (d) Technical briefing - Draft: 1 December 2003
- (e) Overview document - Draft: 1 December 2003
- (f) Design patterns - Drafts beginning 1 December 2003
- (g) Implementation and compliance guidance - Draft: 1 January 2004
- (h) ERA Architecture - Draft: 1 March 2004
- (i) Enforcement mechanisms - Draft: 1 April 2004
- (j) Deployment plan - Draft: 1 May 2004

7. Duration and Review. This agreement shall be effective upon execution by all parties and shall continue unless terminated by mutual agreement of the parties. The MOA will be reviewed and

Subj: COOPERATION AGREEMENT FOR NET-CENTRIC ENTERPRISE
SOLUTIONS FOR INTEROPERABILITY (NESI)

amended to meet new or revised requirements as necessary.
Subsequent revisions will be documented and managed as an
appendix to this MOA.

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Date: 12/11/03

D. M. Bauman

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Date: 11/25/03

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Date: 22 Dec 03