



JOINT REQUIREMENTS
OVERSIGHT COUNCIL

THE JOINT STAFF
WASHINGTON, D.C. 20318-8000

JROCM 173-07
16 July 2007

MEMORANDUM FOR DISTRIBUTION

Subject: Net-Enabled Command Capability Increment One Capability
Development Document

1. The Joint Requirements Oversight Council (JROC) approves the Net-Enabled Command Capability (NECC) Increment **One Capability** Development Document and Extensions, and validates the **enclosed** key performance parameters and key system attributes. The JROC will **maintain** approval authority for all key performance parameter changes, **delegates** capability development document approval authority oversight for **changes to key system attributes** to the Joint Capabilities Board, and **delegates** capability development document approval authority for all other non-key performance parameter/non-key system attribute changes to USJFCOM via the **Joint Combat Capability Developer** organization as outlined in the capability development document. Capability developers will use the NECC Capability Development Document and Extensions as the initial statement of validated capability needs for all phases of development. This program is assigned the **Joint Potential Designator** of "JROC Interest."
2. USJFCOM, working in concert with the Services and appropriate agencies, will determine program funding requirements for POM 2010 and beyond.
3. Should the Defense Information Systems Agency encounter costs exceeding ten percent of the approved acquisition program baseline or 25 percent of the original program baseline (Program Acquisition Unit Cost/Acquisition Procurement Unit Cost), they shall **return** to the JROC prior to reprogramming or budgeting additional funding into the program.
4. The JROC recognizes the importance of the NECC program and requests USJFCOM return to the JROC to provide annual program updates.


E. P. GIAMBASTIANI
Admiral, US Navy
Vice Chairman
of the Joint Chiefs of Staff

Enclosure

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**Net-Enabled Command Capability (NECC)
Capability Development Document (CDD)
Linked Extension G – DOTMLPF Considerations**

Increment: I

7 June 2007

This document has been approved by J8 for release to
Australia, Canada, and Great Britain

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Foreign Releaseability

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AUS, CAN, GBR government agencies and their defense support contractors may disseminate “For Official Use Only” information to their employees and subcontractors who have a need for the information. Removal of the “For Official Use Only” marking can only be accomplished by the USJFCOM J88. All “For Official Use Only” information shall be stored in locked receptacles such as file cabinets, desks, or bookcases. When such internal security control is not exercised, locked buildings or rooms will provide adequate after-hours protection. During working hours, the information shall be placed in an out-of-sight location if the work area is accessible to persons who do not have a need for the information. Transmission of “For Official Use Only” information may only be accomplished on a government-to-government basis.

Further requests for this document should be submitted to:

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Extension G - DOTMLPF Considerations

In addition to each annex, which identifies DOTMLPF changes, additional changes may be recommended during the demonstration and assessment of each increment. These assessments should quantify the necessary changes in doctrine, procedures, structure, or other to support NECC. Through this incremental approach, changes may be generated through the Joint DOTMLPF Change Requests (DCRs) process.

1 Doctrine

Technology has enabled 24/7 media and Internet to bring breaking world events to the people all over the world immediately. National coverage ranges from the lowest form of tactical decisions and actions to those having national (home) and strategic (international) ramification. The impact effects tactical operations in current and related AORs. It is a continuous loop where entry at any level cannot isolate the affect nor effect on other levels. NECC and net-centric ops/warfare intent is to get inside this almost instantaneous timeline enabling informed decision making and precise, sufficient, rapid execution at all levels with an understanding of possible/probable consequence.

Timely, relevant, consistent, and accurate information is a fundamental requirement of the military decision making process. As a transformation cornerstone to future joint warfighting capabilities, NECC is a key enabler of net-centric warfare and is essential for information and decision superiority. Establishment of JTFs using NECC will substantially increase the commanders' ability to plan, execute, monitor, and assess joint and multinational operations.

1.1 *Integrated Logistics Support Strategy*

NECC maintenance and system administration personnel will not require any Peculiar Support Equipment (PSE). Test and fault isolation capabilities of support equipment will meet performance levels consistent with NECC reliability and maintainability standards. NECC shall meet the industry standard for Mean Time Between Essential Function Failure.

1.2 *Standardization Interoperability and Commonality*

NECC shall conduct supportability, sustainability, affordability, and interoperability analysis, and document the needs, deficiencies, and solutions in an ISP. Analysis shall address conformance to applicable DOD integrated architecture and associated behavioral models.

Integration. NECC will be interoperable with the GIG infrastructure. NECC users will utilize the DISN, JWICS, commercial (including outsourcing solutions such as Navy/Marine Corps Intranet), host-nation, and joint force and Service/functional component communications networks for secure connectivity to garrison/deployable networks and shared access to Service /Agency/joint-provided data sources. NECC will facilitate and integrate voice, data, video, teleconference, and web type environments access for commonality/interoperability at all echelons and in command centers. NECC shall identify and use DOD standards for data and metadata as defined in the appropriate DOD directives. Additionally, NECC will identify and leverage Joint/Service COIs to define the applicable COI vocabularies and data sharing agreements that NECC solution sets will implement to include identification of the appropriate authoritative data sources and business rules for information exchange/sharing. As NECC

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matures, COIs may be established by the NECC community to explore and generate services and corresponding data sharing rules to meet specific capability need shortfalls.

- As the DOD principal C2 capability, NECC shall comply with DOD Directive 8320.2, allowing business processes to operate in a seamless and interoperable environment.
- **Data Requirements.** NECC users will utilize NECC MCPs based on GIG enterprise services to access Service /Agency/joint-provided C4ISR data sources.
- **Joint and Multinational Interoperability.** NECC architecture will be interoperable to support secure vertical/horizontal information exchange between NMCS, JFCs, and multinational components. Connectivity to multinational components will comply with applicable agreements, communications publications and technical security interoperability standards.
- **Joint Technical Architecture (DISR).** NECC will comply with applicable information technology standards contained in the DISR.
- **Information Assurance (IA).** IA protects/defends NECC and its shared data sources by ensuring their availability, integrity, authentication, confidentiality, and non-repudiation. NECC restoration is provided by incorporating protection, detection, and reaction capabilities. IA involves assessing operational risk and assuring DIACAP certification and accreditation through DAA risk acceptance and approval. IA and interoperability capabilities must be fully integrated to include implementation of DOD trust authority infrastructure. Approval for exchanging information across multiple security domains will be accomplished by DOD Chief Information Officer approved processes.

2 Organization

NECC identifies information exchanged between organizational nodes and the relevant attributes (e.g. event/action, information characteristics, send/receive nodes, criticality, format, timeliness, and classification) of those exchanges. NECC send and receive nodes include the NECC Community. (See Appendix A for listing of organizational nodes and descriptions). NECC Increment I-III will be fielded worldwide with special emphasis on anticipated critical sites. NECC, in coordination with Services, Combatant Commanders (CCDR), and the Joint Staff, will lead development of a Transition Plan for each NECC Increment. The Transition Plan will address pre-deployment, cutover, and sustainment requirements and responsibilities (e.g. NECC sites, Services, DISA) for each NECC Increment and associated spiral releases. There is no foreseeable impact on the HQ organization resulting from NECC.

3 Training

The NECC training concept and plan incorporates an embedded NECC organic, computer-based training capability, classroom, and on-site task training supporting maximum utilization and availability of NECC mission capabilities listed in NECC ISP and Product Support Management Plan. NECC incremental, spiral releases will combine embedded training capability, advanced on-line tutorials, and comprehensive documentation to meet operator and system administration and maintenance training needs for NECC MCPs and cross-functional services. All new courseware shall be provided in electronic format that is compliant with the latest version of the DOD Sharable Content Object Reference Model (SCORM). NECC support personnel will require appropriate technical documentation to perform system administration and maintenance activities, and to provide required initial, recurring, and advanced training. A Joint System Training Plan (JSTRAP) will be developed to detail how training for operators, maintainers, users, and supervisors is to be conducted, with Service specific training implications addressed in the Service annexes.

4 Materiel

A global helpdesk will be established to provide helpdesk services. User organizations may meet or augment their NECC maintenance system administration and helpdesk support needs using organic resources. NECC does not have any unique data, facility, special packaging, handling, or transportation needs in garrison or deployed environments. NECC components will be transportable worldwide by commercial and military airlift, sealift, and ground transportation. NECC preventive maintenance is limited to tasks and schedules consistent with mission performance needs provided in established planned maintenance systems at each site. NECC corrective maintenance is performed as required to maintain NECC operational readiness. After replacement of the faulty Lowest Replaceable Unit (LRU), verification of proper operation will be accomplished using the same diagnostics initially used to isolate the fault.

5 Leadership

NECC does not deviate or change joint doctrine, supported/supporting command relationships, nor any commander's appointed or delegated authority.

NECC provides a distributive collaborative environment supporting decision-making and planning from the Secretary of Defense to the CCDR/Service Component level. Decision-makers and planners at worldwide locations will have the capability to plan and collaborate their actions on a real time basis. NECC will improve the processes and tools to enhance the responsiveness of military planners and improve joint C2 responsiveness to the Secretary of Defense and senior military leadership. NECC Human-GIG Interface (HGI) functions are the input and output of information representations between human(s)-in-control and GIG entry point(s). The design should minimize human performance errors, interface problems, and workload (physical, cognitive, attention) needs. Interface characteristics should be chosen to maximize human productivity and performance, as verified by iterative testing of NECC increments. The use of multimedia presentations will reduce the need for reading voluminous textual material that can slow the decision-making process. NECC will comply with all HGI function threshold requirements as stated in the GIG MA ICD.

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Leaders must be developed, trained, and educated to think strategically and to successfully apply the joint operational art across the range of military operations. The magnitude of changes required will not occur overnight. Doctrine will provide the intellectual foundation, and continuous training will convert knowledge into practice. The leader of development must focus on the human qualities of initiative, flexibility, trust in subordinates, and teamwork. Our education system must provide a balance between leadership and decision-making in an environment of superior knowledge. We must instill audacity in our leaders and condition them away from passivity in the absence of certainty. Significant changes will also occur within the mix of specialist and generalists comprising our staffs.

6 Personnel

NECC is a general-purpose user capability to be utilized by a mix of military and civilian personnel. New specialty skills may be required of operators to use NECC applications and information services. Qualified government and/or contractor personnel will perform system, database, and security administration and management functions. Required NECC operations, maintenance, and software support manning will be achieved with no increase in manpower requirements or a reduction in manpower support.

6.1 *Manpower and Personnel*

Manpower levels will vary from site to site according to the type of site, organic support provided by host activities, and the configuration of subsystems and equipment. As new hardware and MCP software is globally released, NECC support personnel manpower levels may require adjustments. NECC will not present safety or environmental/health hazards nor will it have any adverse effect on personnel survivability.

7 Facilities

NECC does not have unique facility infrastructure support requirements and will use host installation provided facilities. Facilities will provide access to garrison and deployable communications systems/networks. Off-site storage of data and equipment may be employed to ensure continuity of operations. NECC equipment will use standard power supplies from worldwide commercial and portable power sources. Uninterrupted power supplies will be used for orderly system shutdown if power is lost.

As NECC is not a system but instead a systems integrator utilizing Net-Centric Enterprise Services, there are no environmental impact or safety and occupational health requirements considerations.