



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 N - United States Air Force Annex to
NECC CDD**

Increment: I

7 June 2007

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

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UNITED STATES AIR FORCE ANNEXUSAF-1

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Further requests for this document should be submitted to:

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Extension N: United States Air Force Annex to the NECC CDD

**United States Air Force (USAF) Annex
To the
Net-Enabled Command Capability (NECC)
Capability Development Document (CDD)**

Executive Summary

This United States Air Force (USAF) Annex addresses the mandate in Joint Requirements Oversight Council Memorandum (JROCM) 167-03, 22 August 2003 and follow-on guidance. The JROCM approved the original JC2 Operational Requirements Document (ORD), granted non-Key Performance Parameter (KPP) update approval to Joint Forces Command (JFCOM), and directed ORD revision by JFCOM and the Services. Specific tasking to Services was:

"Service Global Command and Control System (GCCS) Family of System (FoS) ORDs should be updated, within 12 months, to show the migration of these systems to the joint capabilities outlined in this version of the JC2 ORD and to address Service-unique capabilities." (JROCM 167-03, 22 Aug 03)

Subsequent clarification in JROCM 087-04, dated 27 May 04, directed the JC2 ORD update as the NECC CDD and called for Service-unique annexes in lieu of ORD updates. This Annex complies with that direction and addresses the two elements of JROCM 167-03 as per the two following paragraphs:

Global Command and Control System-Air Force Migration to NECC

The current GCCS-AF FoS management, acquisition approach, and sustainment will merge into NECC Mission Capability in collaboration with the Office of the Secretary of Defense (OSD), JFCOM, and the other Services. Current GCCS-AF and other Service-specific systems and applications serving Air Force C2 must continue to be supported for interoperability and function during the migration to NECC as the joint solution. If not the joint solution, any Service-specific system or application must be supported through the testing, fielding, and validation of the joint solution before termination, otherwise continued as a Service-specific solution to meet warfighter capability need. In addition, NECC must be interoperable with other related AF C2 capabilities to include, but not limited to, mission planning (and other wing/unit level capabilities), combat support, intelligence, and space.

Service Unique Capability Need in NECC

Consistent with the intent of NECC Increment 1 and at the level of stated capability need appropriate to a CDD, there is no Air Force-unique Command and Control (C2) capability need for the Increment. NECC covers the cross-functional capability needs in Air Force C2 of Air, Space, and Cyberspace Power. This conclusion is supported by a correlation of the draft GCCS-AF CDD to the original JC2 ORD Requirements Traceability Matrix. This draft GCCS-AF CDD was coordinated through Air Force commands and staff organizations.

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1 Capability Discussion

As with each of the Services, the Air Force fulfills its assigned role in accomplishing Organizational and Operational Functions to bring Distinctive Capabilities to joint warfighting. Air Force describes these functions and Distinctive Capabilities in *Air Force Basic Doctrine*, Air Force Doctrine Document 1 (AFDD 1), 17 November 2003, a complement to *Joint Warfare of the Armed Forces of the United States*, Joint Publication (JP 1) and the AF CONOPS Master Capabilities List. Those Distinctive Capabilities are Air and Space Superiority, Information Superiority, Global Attack, Precision Engagement, Rapid Global Mobility, and Agile Combat Support. Air Force Distinctive Capabilities are integral to each of the NECC MCPs as correlated in Table 1-1 below.

Table 1-1. Joint Command and Control Mission Capability Packages and Air Force Distinctive Capabilities

NECC MCPs (NECC CDD)	Air Force Distinctive Capabilities (AFDD 1)
Force Projection. Within adaptive campaign and crisis planning: deployment/redeployment planning and execution, identification of forces and total assets, force movement; provision of personnel, logistic, sustainment, and other support required to execute military operations until assigned missions are accomplished	Rapid Global Mobility Agile Combat Support Information Superiority Air and Space Superiority
Force Readiness. Assessing the readiness of the Department of Defense and its subordinate components to execute the National Military Strategy as assigned by the Secretary of Defense in Defense Planning Guidance, Contingency Planning Guidance, Theater Security Cooperation Guidance, and the Unified Command Plan. Assessing US forces' ability to undertake missions as assigned in peacetime and wartime.	Agile Combat Support Information Superiority
Intelligence. Joint Intelligence Preparation of the Battlefield (JIPB), targeting, Intelligence, Surveillance, and Reconnaissance (ISR) management	Information Superiority Air and Space Superiority Rapid Global Mobility
Situational Awareness. Fused battlespace awareness tailored to provide current and projected disposition of BLUE/RED/GRAY forces through near real time (NRT)/real time (RT) sensor data and Service/Agency/joint-provided data sources	Information Superiority
Force Employment – Air & Space Operations. Transition from force-level planning to execution including C2 activities associated with management of air and space [and cyberspace] assets	Air and Space Superiority Information Superiority Global Attack Precision Engagement Agile Combat Support Rapid Global Mobility

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NECC MCPs (NECC CDD)	Air Force Distinctive Capabilities (AFDD 1)
Force Employment – Land operations. Transition from force-level planning to execution including C2 activities associated with management of land operations assets	Air and Space Superiority Information Superiority Global Attack Precision Engagement Agile Combat Support Rapid Global Mobility
Force Employment – Maritime/Littoral. Transition from force-level planning to execution with joint maritime/littoral associated C2 activities by enabling faster, better decisions through shared battlespace awareness composed of quality information	Air and Space Superiority Information Superiority Global Attack Precision Engagement Agile Combat Support Rapid Global Mobility
Force Protection. Warning and planning required in minimizing vulnerability of joint, multinational, and United States (US) organizations to enemy/terrorist threats. Activities include integrated air and missile defense, Homeland Security/Homeland Defense (HLS/HLD), consequence management, and related crisis response operations	Air and Space Superiority Information Superiority Precision Engagement Rapid Global Mobility

2 Analysis Summary

Consistent with the intent of NECC Increment 1 and at the level of stated capability need appropriate to a CDD, there is no USAF-unique C2 capability need for the Increment. NECC covers the cross-functional capability needs in Air Force C2 of Air, Space, and Cyberspace Power; however, current GCCS-AF and other Service-specific systems and applications serving Air Force C2 must continue to be supported for interoperability and function during the migration to NECC as the joint solution. If not the joint solution, any Service-specific system or application must be supported through the testing, fielding, and validation of the joint solution before termination, otherwise continued as a Service-specific solution to meet warfighter capability need. In addition, NECC must be interoperable with other related AF C2 capabilities to include, but not limited to, mission planning (and other wing/unit level capabilities), combat support, intelligence, and space. Analysis supporting this assertion and development of this Annex was derived by correlation of 5 Dec 2003 *Draft Global Command and Control System-Air Force (GCCS-AF) Capability Development Document (CDD)* capability need statements to the original JROC-approved 22 Aug 2003 *Joint Command and Control (JC2) Operational Requirements Document (ORD)* requirements in the USJFCOM requirements traceability matrix to the JC2 ORD. These documents are available for review from Air Force Command and Control & Intelligence, Surveillance, and Reconnaissance Center (AFC2ISRC)/DO.

The Draft GCCS-AF CDD resulted from JROC tasking and a High Performance Team (HPT) evaluation of requirements documents for USAF C2 systems that contribute to the GCCS-AF FoS. Those C2 requirements statements were restated in the CDD Draft in the capabilities-based language of the Joint Capabilities Integration Development System (JCIDS). The GCCS-AF

CDD draft was coordinated through Air Force commands and staff organizations as Service-level documentation of the attributes necessary to C2 of Air, Space, and Cyberspace Power, but not through joint staffing due to revised tasking for Service input to NECC. The previous call for JC2 ORD amendment and Service GCCS ORD/CDD update changed to that of submitting Service-unique Annexes to a NECC CDD.

3 Concept of Operations Summary

No change from NECC CDD. Air Force-provided Distinctive Capabilities are inherently joint, they are the component and functional capabilities provided in support of the Joint Force Commander (JFC) across the spectrum of conflict and operations. Air Force amplification of the NECC CDD for C2 capability needs below component and functional level is characterized primarily by the fidelity or detail level in data manipulation and exchange between the Joint Force Air [and Space] Component Commander (JFACC), the Commander, Air Force Forces (COMAFFOR), and other commanders with horizontally and vertically integrated superior, peer, and subordinate commanders around the globe. The network centric environment facilitates collaboration and synchronization of global activity at all levels of detail to the collective interest of the United States, allies, coalition, and civil partners in accordance with (IAW) the supported and supporting relationships established by the President, Secretary of Defense, and Combatant and Joint Force Commanders.

4 Threat Summary

No change from NECC CDD.

5 Program Summary

Current GCCS-AF FoS management, acquisition approach, and sustainment will merge into NECC MCPs in collaboration with OSD, JFCOM, and the other Services. Current GCCS-AF and other Service-specific systems and applications serving Air Force C2 must continue to be supported for interoperability and function during the migration to NECC as the joint solution. If not the joint solution, any Service-specific system or application must be supported through the testing, fielding, and validation of the joint solution before termination, otherwise continued as a Service-specific solution to meet warfighter capability need. In addition, NECC must be interoperable with other related AF C2 capabilities to include, but not limited to, mission planning (and other wing/unit level capabilities), combat support, intelligence, and space.

6 System Capabilities Required for the Current Increment

No change from NECC CDD.

7 Family of System and System of Systems Synchronization

The current GCCS-AF FoS management, acquisition approach, and sustainment will merge into the network centric environment of NECC and NCES. This will be accomplished in collaboration with OSD, JFCOM, and the other Services. Current GCCS-AF and other Service-specific systems and applications serving Air Force C2 must continue to be supported for interoperability and function during the migration to NECC as the joint solution. If not the joint solution, any Service-specific system or application must be supported through the testing, fielding, and validation of the joint solution before termination, otherwise continued as a Service-specific solution to meet warfighter capability need. In addition, NECC must be interoperable with other related AF C2 capabilities to include, but not limited to, mission planning (and other wing/unit level capabilities), combat support, intelligence, and space.

8 National Security System and Information Technology System Supportability

No change from NECC CDD.

9 Intelligence Supportability

No change from NECC CDD.

10 Electromagnetic Environmental Effects and Spectrum Supportability

No change from NECC CDD.

11 Assets Required to Achieve IOC

No change from NECC CDD. Completion of the spirals to merge GCCS-AF with NECC will achieve Initial Operational Capability (IOC). IOC declaration will require collaboration and coordination of Combatant Commanders and their respective Component Commands to meet IOC criteria.

12 Schedule and IOC/FOC Definitions

No change from NECC CDD. Full operational capability (FOC) declaration will require collaboration and coordination of Combatant Commanders and their respective Component Commands to meet FOC criteria.

13 Other DOTMLPF Considerations

No change from NECC CDD. Current doctrine of supported/supporting relationships under duly appointed commanders continues under NECC. The network centric environment will facilitate the Air Force concept of global synchronization in C2.

14 Other System Attributes

No change from NECC CDD.

15 Program Affordability

Management of the current GCCS-AF FoS program portfolio, in collaboration with OSD and JFCOM, will provide for the migration to NECC. As most of the GCCS-AF Service-specific, systems and applications are already joint or of joint interest, they will compete in the NECC analysis of alternatives for the long-term solution to fully realize a network centric NECC environment. Contemplation here as to potential programmatic adjustments is premature. Once again, current GCCS-AF and other Service-specific systems and applications serving Air Force C2 must continue to be supported for interoperability and function during the migration to NECC as the joint solution. If not the joint solution, any Service-specific system or application must be supported through the testing, fielding, and validation of the joint solution before termination, otherwise continued as a Service-specific solution to meet warfighter capability need. In addition, NECC must be interoperable with other related AF C2 capabilities to include, but not limited to, mission planning (and other wing/unit level capabilities), combat support, intelligence, and space.

Appendix A - Integrated Architecture Products

See Extension A-Integrated Architecture Products, NECC CDD.

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