National Command Capability (NCC)

Design for a Collaboration Architecture

2006 CCRTS Paper Submission

CACI – National Security Research, Inc.
P.H. Lyon / D. Dick
plyon@caci.com / ddick@caci.com
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   CACI International Inc, 1100 North Glebe Road, Arlington, VA, 22201

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Prescribed by ANSI Std Z39-18
Authorities for a NCC

- E.O. 12656, Assignment of Emergency Preparedness Responsibilities, November 18, 1988
- E.O. 13388, Further Strengthening The Sharing Of Terrorism Information to Protect Americans, 25 October 2005
- Federal Preparedness Circular, FPC 65, Continuity of Operations (COOP), June 15, 2004
- National Response Plan, December 2004
Strategic Goals for the NCC

- **Goal 1**: Assess current multi-jurisdictional command, control, and coordination capabilities and develop a process to evolve, integrate, and improve the NCC knowledge base in response to political, economic, and social conditions, as well as, technological improvements (i.e. collecting, describing, analyzing, and developing an “as-is” architectural framework).

- **Goal 2**: Establish the technical characteristics and required policies that will support a multi-jurisdictional National Command Capability.

- **Goal 3**: Develop the National Command Capability “To-Be” enterprise architecture framework (EAF).

- **Goal 4**: Develop policies, procedures, and standards to ensure multi-jurisdictional compatibility and interoperability required to support an effective National Command Capability.
NCC Information Sharing Requirements

• Leverage ongoing information sharing efforts in the development of the NCC information sharing environment (ISE).

• Define common standards for how information is acquired, accessed, shared, and used within the NCC ISE.

• Develop a common framework for the sharing of information between and among executive departments and agencies and state, local, and tribal governments, law enforcement agencies, and the private sector.

• Standardize procedures for sensitive but unclassified information.

• Facilitate information sharing between federal departments and agencies and foreign partners.

• Protect the information privacy rights and other legal rights of Americans.
NCC – Technology Context

Data Processing
~> Information Sharing
~> Content Management
~> Knowledge Exchange - Agile C2
NCC Integration - Agility

ENTERPRISE MEDIATION / SOA GOVERNANCE

<Process Name>
NCC Agile C2 – Enabling Models

NCC C2 Properties

ROBUST & RESILIENT

<Process Name>
NCC – Service Bus
Linking Loosely Coupled Services

Using Google Earth … with “coffee house” mash-up

Where’s the Symposium?
What City?
Where’s Loews Coronado Bay Hotel?
OK so … where’s the coffee?

User selects add-on web services
NCC – Shared Services

Service-Orientedness

* SOAP over HTTP
* FTP
* SMTP
* XML w/ SOAP

Service Requests
NCC – Shared Access & Understanding
Web Services: On-Line Banking Example

Import: Transaction Detail
NCC – Shared Information Space
NCC – Distributed Framework
NCC Vision & End State

• The NCC is truly an integrated approach to providing the guidance, management, and the technological means to the U.S. leadership, that will address current national security concerns and mitigate future threats by providing critical capabilities required to predict and assess future needs.

• The two most critical NCC capabilities are:
  – Providing the decision-maker with global situational awareness
  – Providing a collaborative environment that leverages current technologies and integrates new, more advanced services and applications to engage proactively the planning and response communities throughout the interagency -- while providing the critical interface with the State, local, and tribal governments.