



Network Centric Operations Industry Consortium

www.ncoic.org

Industry working together with our customers

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NCOIC Technical Council Chairman Emeritus

16 April 2007

***Approved for Public Release
NCOIC March 9, 2007***

NCOIC Goal: to Facilitate Implementation of Network Centric Operations

Members are Global Leaders:

Academic institutions

Air Traffic Management providers

Service providers

Consulting
Engineering
Logistics

Defense suppliers

All military services
Multinational

Government agencies

Human service agencies

Integrators

Commercial systems
Defense systems

IT firms

Communications
Data management
Human-Machine interface
Information assurance

Standards bodies

- **Increase interoperability** within and among systems involved in Interagency and Multinational operations
- **Lower development costs** and increase commonality of design in future systems – tailored standards and best practices
- **Improve application readiness** through more rapid fielding of network centric systems – leverage technical “lessons learned”
- **Reduce systems cost and sustainability** through re-use and commonality – facilitate ease of integration, upgrade, and support
- **Reduce Development Risk** by identifying the common components needed for the network centric environment – Develop them where none exist
- **Improve Application Effectiveness** through new, more focused development on domain specific capabilities

Currently 90+ Member Companies & Organizations in the NCOIC



Just a few of the names that you might recognize...

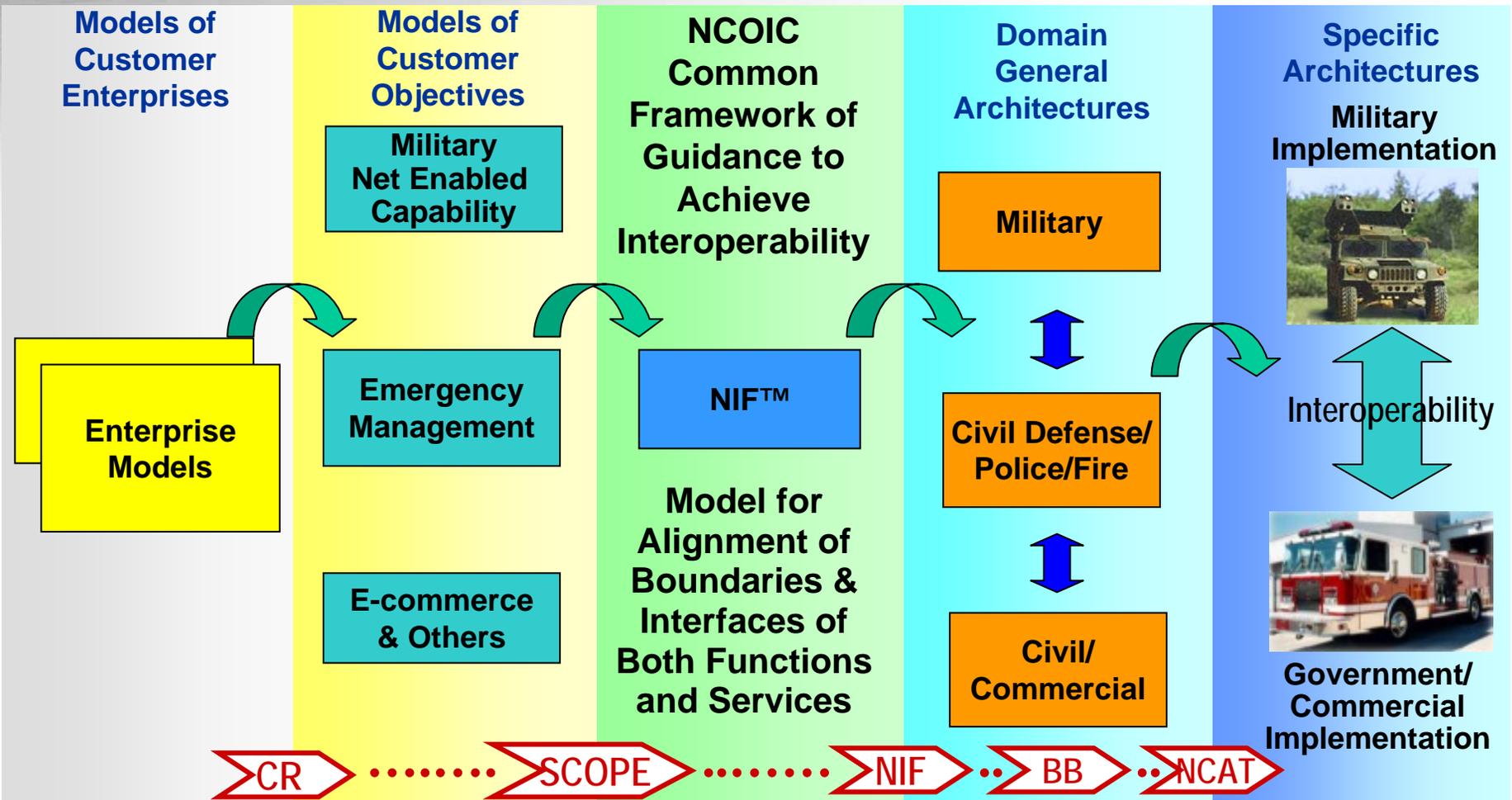
Advisory Council Members

- Chairman
 - Headquarters, Department of the Army
 - Joint Staff
 - UK MoD
 - Australian Defence Organisation
 - Department of Homeland Security
 - American Red Cross
 - Defense Information Systems Agency
 - Italian MoD
 - Office of the Secretary of Defense
 - German MoD
 - NATO Allied Command Transformation
 - NATO Headquarters C3 Staff
 - Advisory Council Chair Emeritus
 - Independent
 - Naval Network Warfare Command
 - Office of Director of National Intelligence
 - Swedish MoD
 - Office of the Secretary of the Air Force
 - Federal Aviation Administration
 - French MoD
 - National Geospatial-Intelligence Agency
 - NATO C3 Agency
 - US Joint Forces Command
- Honorable Keith R. Hall
LTG Steven W. Boutelle, USA
VADM Nancy E. Brown, USN
AVM Stuart D. Butler, RAF
MAJGEN David H. Chalmers, ARA
Honorable Jay M. Cohen
Mr. Steven I. Cooper
Lt Gen Charles E. Croom, Jr., USAF
Maj Gen Pietro Finocchio, ITAF
Dr. Vitalij Garber
Mr. Uwe H. Giesecke
Maj Gen Koen Gijsbers, RNLA
Maj Gen Georges D'Hollander, BE AR
Honorable Paul G. Kaminski
General Harald Kujat, GE AR (Ret.)
VADM James D. McArthur, Jr., USN
Honorable Dale W. Meyerrose
Maj Gen Staffan Näsström, RSAF (Ret.)
Lt Gen Michael W. Peterson, USAF
Mr. Mark T. Powell
BGen Blandine Vinson-Rouchon, DGA
Mr. Steven P. Wallach
Mr. Dag Wilhelmsen
LTG John R. Wood, USA

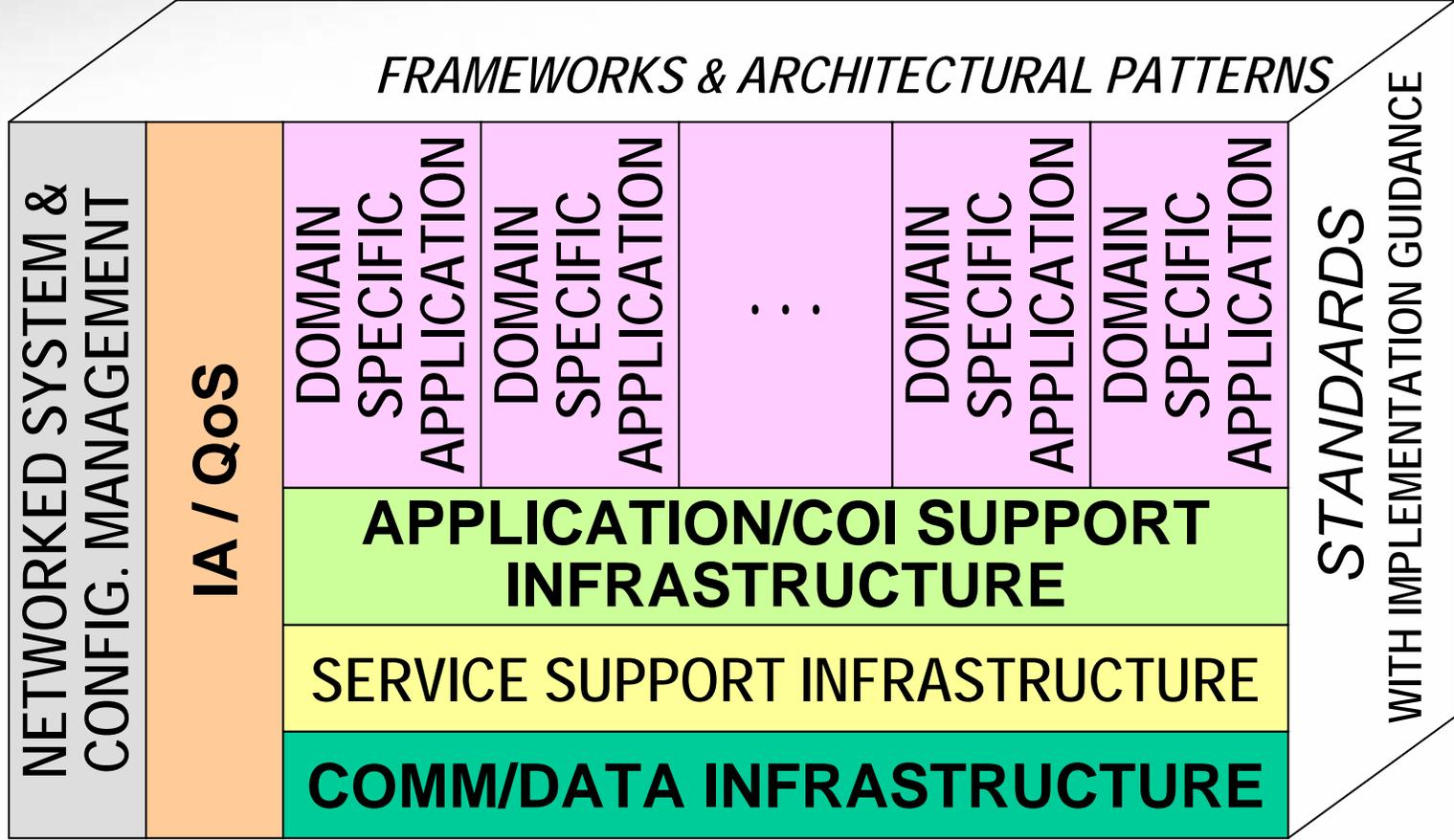
NCOIC Key Deliverables

- Systems, Capabilities, Operations, Programs, & Enterprises (SCOPE)
 - Characterization of commercial, civil, and government agency requirements for interoperable systems
- NCOIC Interoperability Framework™ (NIF)
 - Recommendations for open standards and their patterns of use to obtain interoperable systems
- Building Blocks
 - Catalog of COTS & GOTS products compliant with NIF recommendations
- Network Centric Analysis Tool™ (NCAT)
 - Netcentric analysis of system architectures, including System-of-Systems and Federation of Systems architectures
- Collaborative demonstrations between government and industry bodies

NCOIC Key Technical Deliverables



NCOIC Technical Deliverables Work Together Assist in Achieving Interoperable Systems



NCOIC Technical Roadmap

Develop the Strategy, Mission, & Vision
Define our Approach

Deliver Tools, Building Codes, and Building Blocks to Influence Acquisitions

Maturing Relationships and Focusing Deliverables

Candidate Future Activities

2004-2005

2006

2007

2008

2004 (28 Members)

86 Members

93 Members

Membership growth

- Consortium formation
- NCOIC position paper
- Member recruitment

- Establish IPTs to produce building codes
 - NATO
 - S&RL
 - MECI

- Net-Enabled Emergency Response
- M&S and Demo interoperability
- NCAT automated
- Interoperability exercises
- Ground systems architectures
- NIF v2 completion
- Frameworks & patterns (PFCs)
- CRADAs/MOUs
- Swedish FMV design rules
- IA Framework
- Building Blocks Certification

- Domain-specific projects
- Semantic Framework
- Enabling guidance for Military and Civil Scenarios
- Development of Patterns & Frameworks

2005 (48 Members)

- Government memberships
- NCAT v2
- Mobile Networking Overview
- NIF v1 content & NIF v2 concepts
- Building Blocks database
- SCOPE Model refinement

- Gov't and industry initiatives database
- Lexicon
- SCOPE
- NCAT v1
- NIF v1

Establishing and Organizing

Analyzing options and creating tools

Refining tools and producing deliverables

Influencing usage and standards adoption

What Customers Are Saying:

- “NCOIC and DISA are pursuing similar and complementary paths in developing network centric capabilities and addressing information assurance challenges. We are looking forward to working side-by-side as an NCOIC member with the many world-class technology organizations actively involved in NCOIC’s groundbreaking work.” *Lt Gen. Charles E. Croom, Jr, USAF, Director of DISA*
- “In cooperation between NATO and industry, NCOIC is proving to be of critical importance !” *Marshall Billingslea, ASG/DI NATO, ACT Industry Day, AFCEA-Chapter Europe*
- “The American Red Cross is very pleased to be a newer member of the NCOIC because we fully support the work the Consortium is doing to enable emergency communications interoperability across the defense environment and now with the public safety and emergency responder sectors. NCOIC efforts will improve the ability of emergency response teams around the world to more quickly and effectively respond to natural and man-made disasters. The result will be lives saved that would otherwise be lost, and a greater sense of global partnership to enable public preparedness and response.” *Steve Cooper, CIO, American Red Cross*
- “NATO can only be successful in this NNEC enterprise if NATO and its Allies work together with industry from the beginning.” *Major General Georges d’Hollander, vice-chairman of the NATO Consultation, Command and Control Headquarters Board*

