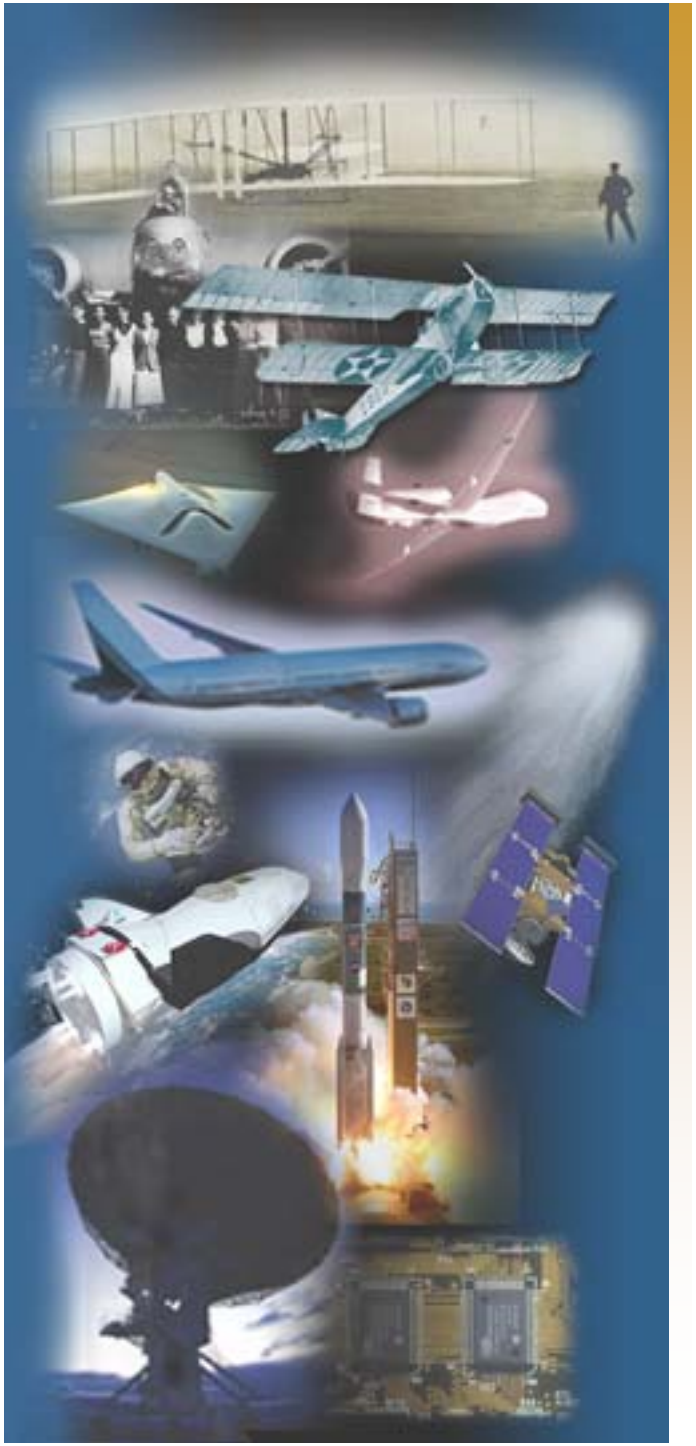

Hot Topics in NCO Deployment Maturity

NDIA Net Centric Operations Conference
Waterside Marriott -- Norfolk, VA
March 13th, 2006

Moderator: C. Stephen Kuehl AIAA NCO PC Chairman

AIAA 75 Years
American Institute of Aeronautics and Astronautics

An Overview of AIAA

Mission

AIAA advances the state of aerospace science, engineering, and technological leadership.

Vision

AIAA is the shaping, dynamic force in aerospace – THE forum for innovation, excellence and global leadership.

- Non-profit under 501(c)(3) since 1963
- World's Largest Professional Society in Aviation, Space, & Defense Engineering/Science
- 31,000 members (5000 International) Across 7 Geographical Regions
- 66 Technical Committees Spanning Aerospace Science & Technology
- Aerospace Experts (Fellows – 706, Associate Fellows – 3562, Honorary Fellows – 79)
- 30+ Yrs Experience in Delivering Objective Congressional Testimony on Aerospace Issues & Policy Guidance
- Aerospace ISO Standards Body
- Aerospace Professional Development Course Provider (Distance Learning)
- Prestigious Aerospace Publisher – Books, Journals, & Technical Papers
- Pre-College Educational Outreach (K-12)

AIAA 75 Years
American Institute of Aeronautics and Astronautics

NCO Society Focus

NCO Liaisons

Congressional
- ✓ Congressional Visits Day
- ✓ Congressional Position Papers

DoD, NASA, NIST, DISA, FAA, FCC
- ✓ Policy Changes
- ✓ Funding
- ✓ **Technology Roadmaps**

NSF, DARPA – Research Bodies
- ✓ Policy
- ✓ Funding
- ✓ **Technology Roadmaps**

NDIA, NCOIC, AFEI, INCOSE, W2COG
- ✓ **Joint Conferences**

COTS Trades Associations
- ✓ **Standards**
- ✓ **Technology Roadmaps**

NCO PC

Chairman

Steering Committee (5)

IBSC W/Deputy Chairman 10-20 People	**CBSC** W/Deputy Chairman 10-20 People
IBSC Focused Liaison	**CBSC Focused Liaison**

Earned-Value Collaboration

AIAA Staff
- ✓ **AIAA EXECUTIVE DIRECTOR**
- ✓ **Business Development/Marketing**
- ✓ **Public Policy**
- ✓ Professional Development
- ✓ **TAC**/RSAC **Support**

AIAA Governing Body
- ✓ Board of Directors with Supporting Committees (Emerging Technologies)

AIAA TAC
- ✓ VP-TAC & PC Coordinator
- ✓ **NIS +** Seven Directorates
- ✓ 35+ **Technical Committees**
- ✓ Conference/Workshop Organizers

AIAA RSAC
- ✓ Local Sections
- ✓ US Regions
- ✓ International Regions

1st Tutorial Overview

- **DoD's NetCentric Data Strategy**

Dan Risacher **– OSD**

The Department of Defense Net Centric Data Strategy provides a key enabler of the Department's Transformation, by establishing a foundation for managing the Department's data in a NetCentric environment. The tutorial will describe the implementation of this strategy and how it will make information visible, accessible, and understandable.

08:30 AM -- 9:30 AM

Break 9:30AM – 9:45 AM

9:45 AM – 10:45 AM

2nd Tutorial Overview

- **Mediate Cross Domain Information Flow: Enhanced Cross Domain Solution Decomposition**

Jared Cohen **- North Star Consulting Solutions (Enterprise IA Architecture & Systems Engineering Office)**

This tutorial provides an overall architectural understanding of the Cross Domain Space (CDS) in the GIG. It describes the current Vision of CDS with respects to Mediate Cross Domain Information Flow while describing the architectural alternatives for future Increments. This architectural approach is implementation independent and assumes some process and/or core services will be available and deployed to support this approach. The tutorial recommends research and standards activities in this area for the entire development and integration community.

10:45 AM → 12:15 PM

3rd Tutorial Overview

- **Challenges and Recommendations in Building a Net-Centric System-of-Systems**

James Smith **– Carnegie Mellon SEI (AIAA NCO PC)**

This tutorial will present current perspectives and recommendations on critical programmatic and technical challenges confronting organizations developing, acquiring, fielding, and sustaining a heterogeneous network-centric System of Systems comprising a mixture of COTS/GOTS/other reuse and developed systems. Topics include programmatic/organizational interoperability, cost and schedule estimation, system migration, and current technology limitations, enablers, and forecasts.

1:00 PM - 1:45 PM --- Intro/purpose/overview
1:45 PM - 2:00 PM ----"Traditional" systems
2:00 PM - 2:15 PM ---- Net-Centric motivation
BREAK 2:15 PM -- 2:30 PM
2:30 PM - 2:45 PM ---- Why is Net -Centric different?
2:45 PM - 3:15 PM ---- What to do about it?
3:15 PM - 3:45 PM ---- Technology issues
BREAK 3:45 PM -- 4:00 PM
4:00 PM - 4:15 PM Unresolved issues
4:15 PM - 4:30 PM Recommendations
4:30 PM - 5:00 PM Audience Discussion