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Quicklook Briefing

March 2010 Inaugural Information Dominance Industry
Day.

Prepared for

~~Βυρδεσηω Ασσοχιατες, Ατδ.~~

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ALANSA INTERNATIONAL, LLC
Executive Advisor – Assisting U.S. Federal Contractors



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Overall: The conference is a first of a proposed annual report to Industry on the nature, objectives and progress of the Navy's shift to Information Dominance as a warfare area and executive perspectives.

Format: Speaker presentations with written questions from the floor for each speaker followed by a panel discussion queued by questions not addressed by speakers earlier. This conference was held at the SECRET level. All questions addressed in public or reserved for analysis and answering would be answered publically with slides. All published items would be cleared to the unclassified level only.

Hosts:

Steven Ritchey, VP Intelligence, AFCEA International,

VADM Lowell Jacoby, USN (Ret.) Chairman of Board, Naval Intelligence Professionals



ADM. Roughhead, CNO: Key Points

- Information Dominance was one of his **key change ideas** when he became CNO
- Downside of the sine curve for \$\$\$\$. Different from other times because the Navy did not gain people during larger budgets. People have gone down 16% but people costs have gone up 13%. Must get **automation to reduce people** and use our people smarter.
- **Program Criteria:**
 - ✓ Can it come from the sea
 - ✓ Can it integrate with the fleet that we have
 - ✓ Is it adaptable
 - ✓ Is it secure
 - ✓ Is it resilient (in levels of denied capability)
 - ✓ Can it be commonly used across platforms
 - ✓ Can it be used in Multiple places
 - ✓ Is it interoperable (Global Maritime Partnerships, Countries/NGO's etc.) Both at the low end and the high end.
 - ✓ Are our solutions affordable (Life cycle costs and all tails)
 - ✓ Can we compress the timeline from inception to delivery – Really Unsats for IT.
- **Highest Priority** – Unmanned Underwater Vehicles – Underwater is the domain of the Navy. Before any mission investment (i.e. no investment in sensors) until we crack the power problem. Wants autonomous operations for 3 weeks minimum up to months. **Three words for UUV programs – Power, Safety, Endurance**

Takeaway Message:

Information Dominance is a Warfare Area and it has top down support.



VADM. McCullough, CDR 10th FLT, US Fleet Cyber Command: Key Points

He exists at the operational level of war to support the other operational commanders.

Highest Priorities

- ✓ Real time **situational awareness** of Networks and Cyber
- ✓ What tools and techniques to use **against adversaries**
- ✓ How to get **data off of sensors** fast

Takeaway Message:

Cyber is more than just defensive. It is also operational and offensive.

(Note: your XXX client would be interested in this)



VADM Jack Dorsett, DCNO Information Dominance (N2/N6) : Key Points

- ✓ Information Security – Too much dialog in **open press**
- ✓ **Break down cultures** of the “tribes” of the groups brought together for creation of Information Dominance.
- ✓ **Unmanned** capabilities operating from the Sea.
- ✓ **Endurance** for Semi-autonomous and autonomous vehicles.
- ✓ Information Dominance Roadmaps. (Being developed and first one expected in July 2010. All 20+ expected to be done by end of year.)

Takeaway Message:

*He is bringing the organizational aspects of Information Dominance together quickly.
(Note: The call plan for the xxxxx project has just changed significantly)*



RADM Nevin Carr, *Chief of Naval Research:* Key Points

- ✓ Explained the various **funding** elements that support Naval Research
- ✓ Highlighted the **history** and role of Director of Naval Research
- ✓ Talked about several examples of **successful research**

Takeaway Message:
Information Dominance will be leveraging R&D



RADM Kendall Card, ADCNO for Concepts and Integration(N2/N6): Key Points

- ✓ Most of briefing was **classified**.
- ✓ Focused on **Maritime BMD**
- ✓ In his role of **integration** for N2/N6 looked for integration among the 140 programs of the directorate.

Takeaway Message:

Lots of action taking place in classified programs.

(Note: I can discuss with you in person the two programs of interest)



RDML Terry Craft, ADCNO for ISR (N2/N6)

Key Points

- ✓ Discussed the maritime ISR Roadmap
 - ✓ **Unmanned is a misnomer.** Many today are just placing people off of the platform. Autonomous is where we are headed. Must take steps to get there starting with semi-autonomous.
 - ✓ Highest priority is UUV to have a **persistent energy** sources.
 - ✓ Distributed netted systems for both **plug in-plug out capability** for semi-autonomous and autonomous and to put the processing at the right place for optimum advantage
 - ✓ PED (**processing, exploitation and dissemination**) issues are not one size fits all. Must be distributed according to some efficiency and effectiveness criteria.
 - ✓ Most critical S&T requirements are **energy and autonomy**

*Takeaway Message:
ISR is a key part of Information Dominance and will leverage wide variety of
programs, platforms, and concepts.*



RDML (S) Gretchen Herbert, ADCNO for Networks

N2/N6: Key Points

- ✓ Roadmap is for **Convergence to a Single Network (CSN)** but the convergence is meant to be for federation, not a unitary network. Seamless passing of information.
 - ✓ Warfare is ultimately an information contest
 - ✓ Automation must reduce people – not just time
 - ✓ Must disassociate HW/SW
 - ✓ Need situational awareness of networks. (COP/STATUS/Health)
 - ✓ Need to enforce compliance of network security – Takes care of 85% of the problem
 - ✓ Consolidations as well as automation...Networks and data center (must look across Navy / Joint, Comm / Intel)
 - ✓ Bandwidth must be used smarter.
- ✓ **Guiding Principles** for the CSN network effort:
 - ✓ Global access
 - ✓ Info sharing – disaggregated ops
 - ✓ Interoperability – Including Joint and coalition
 - ✓ Unified Capability – (Voice/Video/Data)
 - ✓ Unique Identity
 - ✓ Enterprise Attributes
 - ✓ Resilience – Big Problem

Takeaway Message:

Rethink how we define what a network does and how we manage, use and leverage it.

(Note: this may affect the xxxxx project strategy)



Mr. Mark Address; ADCNO for Decision Superiority (N2/N6) : Key Points

- ✓ Smarter data sharing and Manpower utilization
- ✓ Leverage the total workforce
- ✓ Collaborative multidisciplinary analytics
- ✓ Single conduit between Intel Community and Sea Services
- ✓ Fleet Battle Management
- ✓ Surface EW will be looked at carefully in the near future
- ✓ OZONE / Widget framework – (Get ready for the apps revolution)

Takeaway Message:

Integration of information is not enough; must position to make it useful in multiple ways.

(Note your client xxxx should be very interested in the renewed Surface EW)



Additional Items of Note

There was a call for any white papers of ideas for them to consider and they gave a wide-open approach to topics. The POC for white papers was david.schneeberger@navy.mil. The white paper call was reiterated by several of the speakers and conference officials.

All questions and answers, from the speakers and the panel will be provided to participants along with unclassified speakers slides. I will forward with appropriate comments when available.

*Takeaway Message:
Good ideas get heard*



CNO's Vision

- ❑ Navy is Prominent and Dominant in the fields of ISR, Cyber Warfare, C2, Information & Knowledge Management
- ❑ Information becomes a Main Battery of U.S. Navy warfighting capability
- ❑ Warfighting Wholeness replaces sub-optimal stovepipes



"We will seek out and embrace game-changers and innovative solutions to current and future challenges, especially at the left end of the kill chain." - CNO in 2009



Navy's Approach to Information Dominance

- Move Boldly:
 - From Platform-Centric to Information-Centric processes
 - Into Unmanned, machine Autonomous technologies
 - Creating a Fully-Integrated Intel, C2, Cyber & Networks Capability

- To be successful in 21st century warfare, the U.S. Navy must create a fully-integrated information, intelligence, C2, cyber & networks capability ... and wield it as a weapon



Development of the Information Dominance Roadmap

