



Network Centric Operations
Industry Consortium

Cybersecurity Defense & Security: Between The Sword and the Shield

John Osterholz

Vice President, Integrated Cyber Warfare and Security

BAE Systems Information Solutions

NCOIC Technical Council Chair

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Précis -

- Conducting business in Cyberspace represents an essential and durable component of modern society
- Military and civilian network exploitations by a variety of actors have dramatically increased in scale and frequency post Y2K
- National authorities and alliances are just now undertaking significant policy, programmatic and operational actions
- The defense of Cyberspace has begun to take on international urgency as critical infrastructures have been successfully attacked



***Interoperability and Security go hand in hand
in a Network Enabled World***

Network Exploitations - What Our Adversaries Have Demonstrated

Kosovo ... Estonia ... **Georgia**

Websites

"Stop all war.
Consintrate [sic] on
your problems. Nothing
was damaged, but we
are not telling how we
got in."

Hong Kong Daner Duo
2006

Botnets - DDS

"This may well turn out
to be a watershed in
terms of widespread
awareness of the
vulnerability of modern
society,"

Principal DASD for Networks
and Information Integration
2007

Coordinated Warfare

"... Russian tanks rolled
into the country's
territory, in what experts
said Wednesday was an
ominous sign that cyber-
attacks might foreshadow
future armed conflicts."

Moscow Times
2008

Adversaries are capable of mid-range and high-end coordinated operations incorporating mature, close in collection; network reconnaissance; exfiltration or manipulation of mission critical data; and access, capacity or service denial **in coordination with a broader operations plan**

Nations are responding in various ways to this threat

Integrating Policies, Programs and Operations - Is The Next Frontier

Cooperative Cyber Defence Decision Support System

- ACT Project developed by NC3A
- Multi-phase project started in 2006
- Intent is to develop a command and control system for network operators and security personnel which is able to operate across coalition networks

NATO UNCLASSIFIED ACTION July 2006

CabinetOffice
The National Security Strategy of the United Kingdom
Security in an interdependent world

Nationaler Plan zum Schutz der Informationsinfrastrukturen (NPSI)

Ministère de l'Économie, des Finances et de l'Énergie
Haut Fonctionnaire de Défense et de Sécurité
Au cœur de la guerre de l'information, quels sont les enjeux pour les états ?
La sécurité des réseaux informatiques 13 mars 2008

Melissa Hathaway
Director U.S. Joint
Interagency Cybersecurity
Task Force
Office Of The Director
National Intelligence

“Internationally, we should look toward invigorating our traditional alliances and create new ones that share the responsibility for securing cyberspace and enhancing our global competitiveness”

Our Distinguished Panel



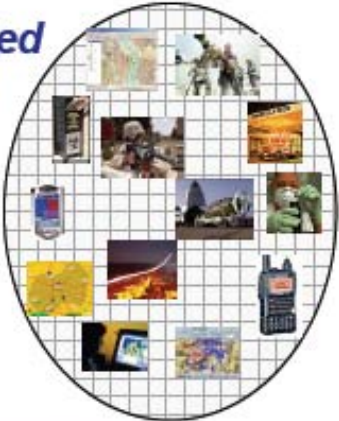
Mr. Michael Swetnam, Chief Executive Officer of
the Potomac Institute for Policy Studies

Lt Gen (R) Harry Raduege, Chairman, Center for
Network Innovation, Deloitte LLP

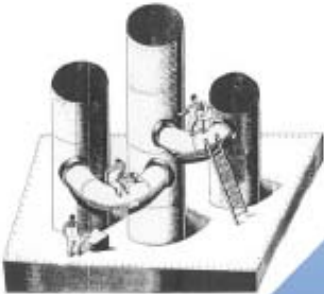
Lt Gen James Soligan USAF, Deputy Chief of Staff
NATO Allied Command Transformation



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