



Tidewater Association of Service Contractors



**Rear Admiral Ned Deets
Commander
Naval Network Warfare Command
17 November 2010**



Information as a Weapon

“We must maintain our preeminence in networks, intelligence, and information. There is no other Service or nation that is as good as we are.”



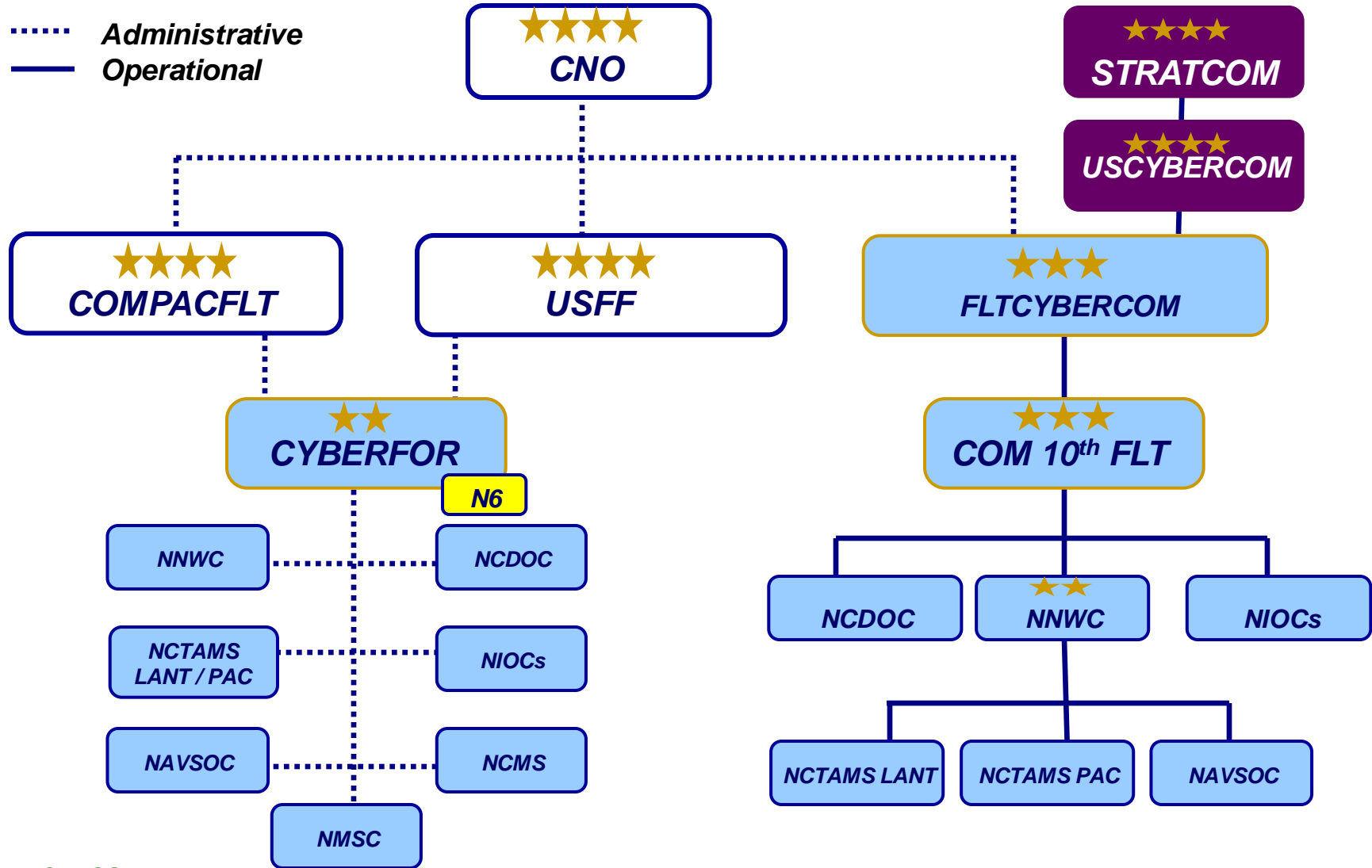
“Aligning intelligence and operations and optimizing the network in many ways takes priority over the platform. If we don’t get the intelligence and information right, then the platform is sub-optimized. Therefore we need to elevate the priority of information. Since we already think and operate this way, it’s time we finally aligned organizationally to sustain it ... to achieve prominence and dominance”

***Admiral Gary Roughead
Chief of Naval Operations
17 July and 23 October 2009***



Warfighting Model

..... Administrative
 — Operational





10th Fleet Missions and LOOs

- **Mission**

- Central operational authority for networks, cryptology/SIGINT, IO, cyber, EW and space in support of forces afloat and ashore
- Navy Component Commander to USCYBERCOM
- Service Cryptologic Component Commander

- **Lines of Operation**

- Assuring Navy's ability to Command and Control its operational forces in any environment
- Achieve and sustain the ability to navigate and maneuver freely in cyberspace and the RF spectrum
- On command, and in coordination with Joint and Navy commanders, conduct operations to achieve effects in and through cyberspace





C10F Standing Task Organization

★★★
C10F

★
D/COM

Headquarters & Staff

Service Cryptologic Component Operations

CTF 1000
C10F

CTG 1000.1 NIOC Menwith Hill Station	CTG 1000.3 NIOC Misawa	CTG 1000.5 NIOC Georgia	CTG 1000.7 NIOC Hawaii	CTG 1000.9 NIOC Norfolk
CTG 1000.2 NIOC Sugar Grove	CTG 1000.4 NIOC Texas	CTG 1000.6 NIOC Maryland	CTG 1000.8 NIOC Colorado	

CTF 1030
CO NIOC Norfolk

CTG 1030.1
NIOC Norfolk

CTG 1030.2
NIOC San Diego

CTG 1030.3
NIOC Whidbey Island

CTF 1090
CO NIOC Suitland

Research & Development

Information Operations

NETOPS and Space OPS

★★
CTF 1010
COMNWC BWC

CTG 1010.1
NCTAMS LANT

CTG 1010.2
NCTAMS PAC

CTG 1010.3
NAVSOC

CTF 1020
CO NCDOC

CTG 1020.1
NCDOC

CTG 1020.2
NIOC Pensacola

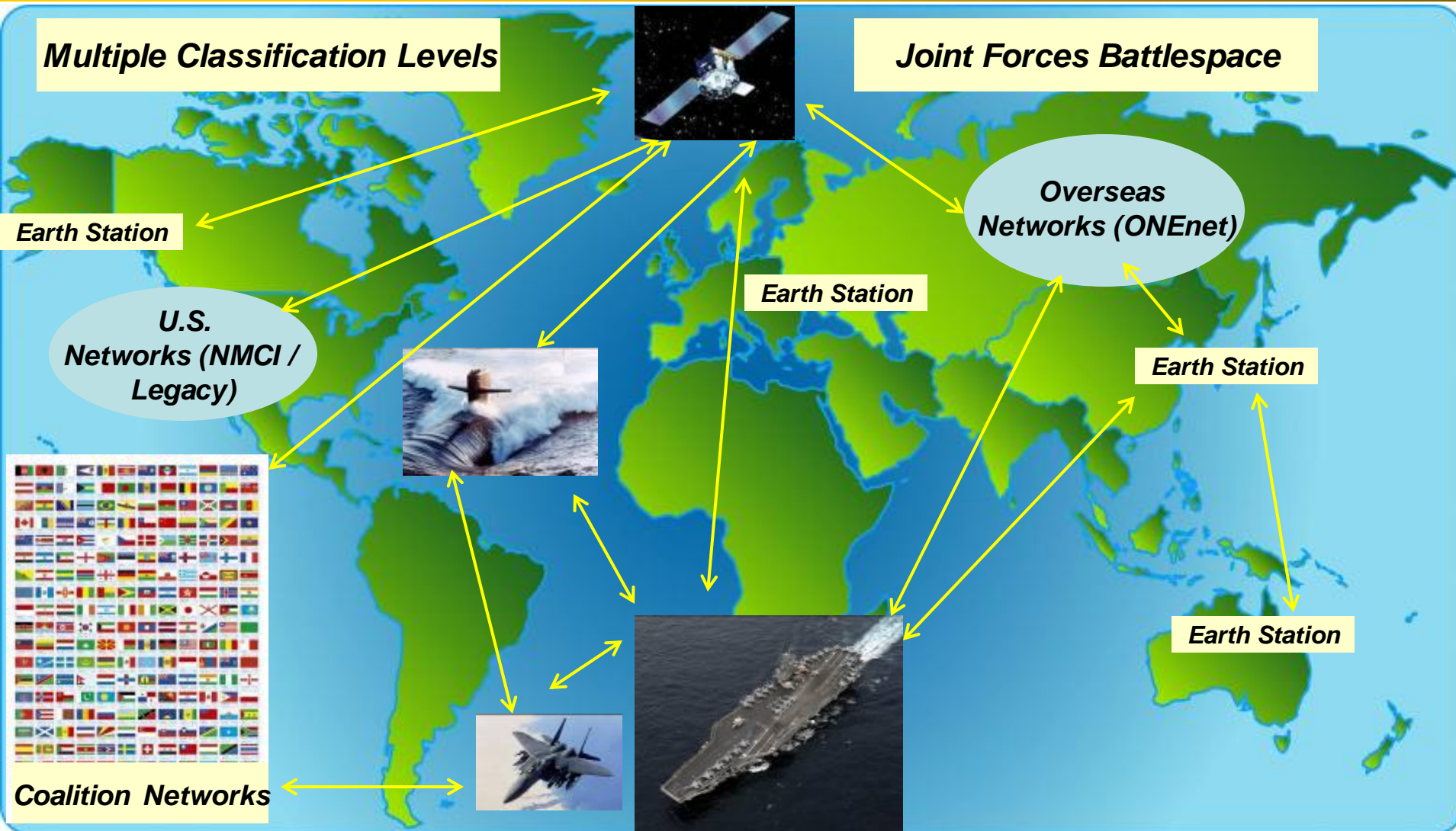
Computer Network Operations

Fleet and Theater Operations

CTF 1040 CO NIOC Texas	CTF 1050 CO NIOC Georgia	CTF 1060 CO NIOC Maryland	CTF 1070 CO NIOC Hawaii	CTF 1080 CO NIOC Colorado
CTG 1040.1 NIOC Texas	CTG 1050.1 NIOC Georgia	CTG 1060.1 NIOC Maryland	CTG 1070.1 NIOC Hawaii	CTG 1080.1 NIOC Colorado
	CTG 1050.2 NIOC Bahrain	CTG 1060.2 FIOC UK	CTG 1070.2 NIOC Yokosuka	
			CTG 1070.3 NIOC Misawa	



Challenge: Complex Networking Environment





Challenge: The Threat

CNN.com/technology

Chinese hackers: No site is safe

- Chinese hackers claim to have broken into Pentagon's system
- The hackers met with CNN on an island near a Chinese naval hub
- Hackers say Beijing secretly pays them at times, something the government denies
- Official: "The Chinese government does not do such a thing"



- Hackers
- Disgruntled Insiders
- Industrial Espionage
- Foreign Espionage
- Terrorists
- State Sponsored Attacks

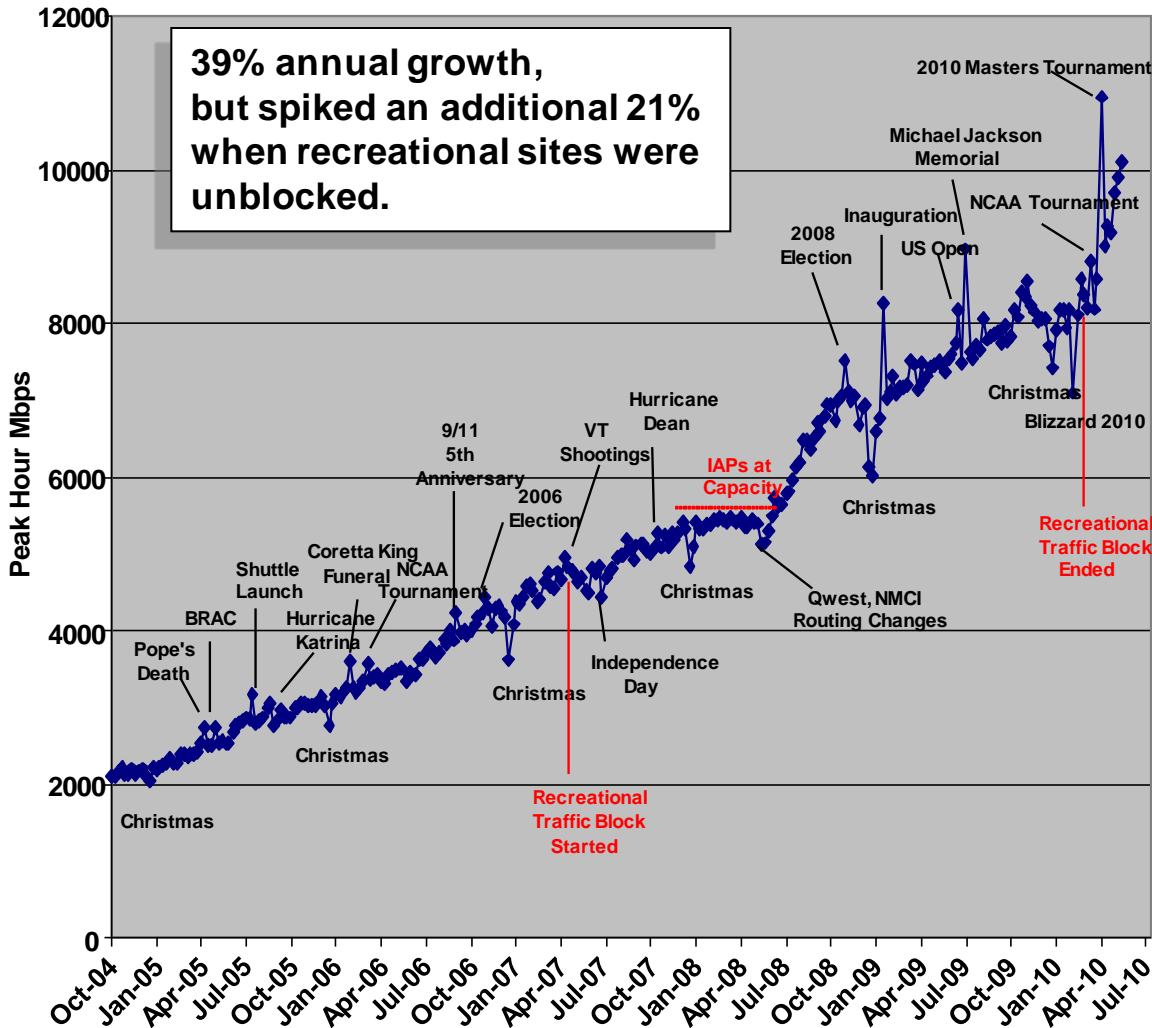
Guardian Unlimited

Russia accused of unleashing cyberwar to disable Estonia

- Parliament, ministries, banks, media targeted
- NATO experts sent in to strengthen defenses



Challenge: Exposure



google.com.....	Search Engine
yahoo.com.....	Search Engine, Portal
facebook.com.....	Social Networking
streamtheworld.com	Music
msn.com.....	Portal, News
microsoft.com.....	Software Updates
foxnews.com.....	News
windowsupdate.com...	Software Updates
amazon.com	Shopping
youtube.com....	On-line Videos
symanticliveupdate....	Anti-Virus Software
msnbc.com.....	News
espn.go.com.....	Sports
pandora.com.....	Internet Radio
googlevideo.com.....	On-line Videos
af.com.....	Air Force Public Website
verisign.com.....	PKI and Encryption
cnn.com.....	News
turner.com.....	Multimedia
ebay.com.....	Auctions, Shopping

- as of July 2010



Solutions

• Culture

- Accountability
- Commander's "Daily View"
- Focus on 1000s of Threats
- Damage Control, Force Protection

• Conduct

- Enterprise C2
- One Network, One Fight
- Inspection Mentality
- Proactive
- OPREP 3
- Physical Security
- Compliance

• Capability

- Network Visibility
- Information Assurance
- TYCOM
- Dynamic Defense
- Automation
- Physical Security
- PORs





From NMCI to NGEN

Way Ahead to NGEN:

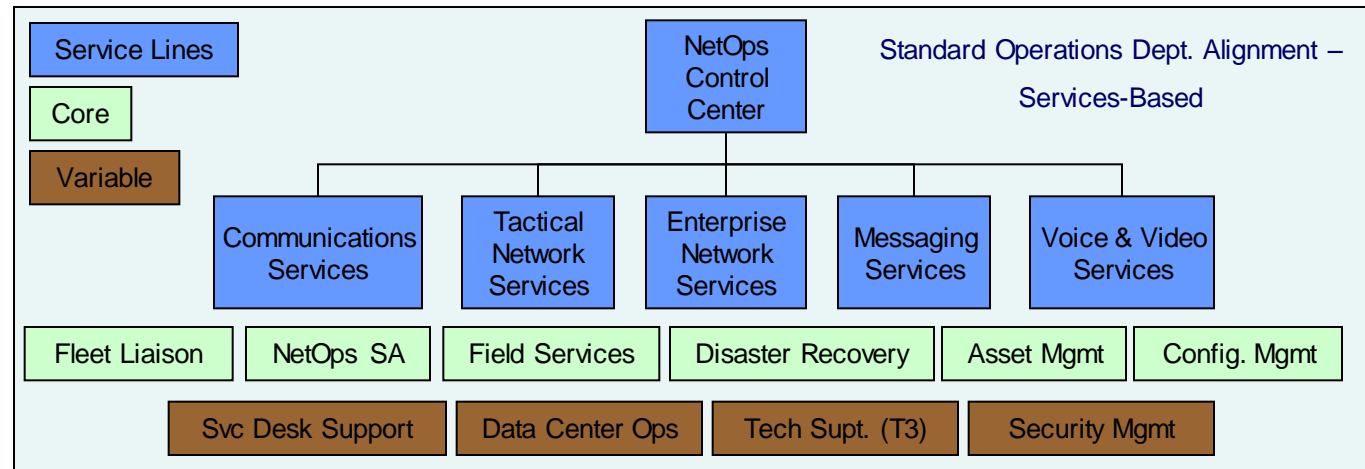
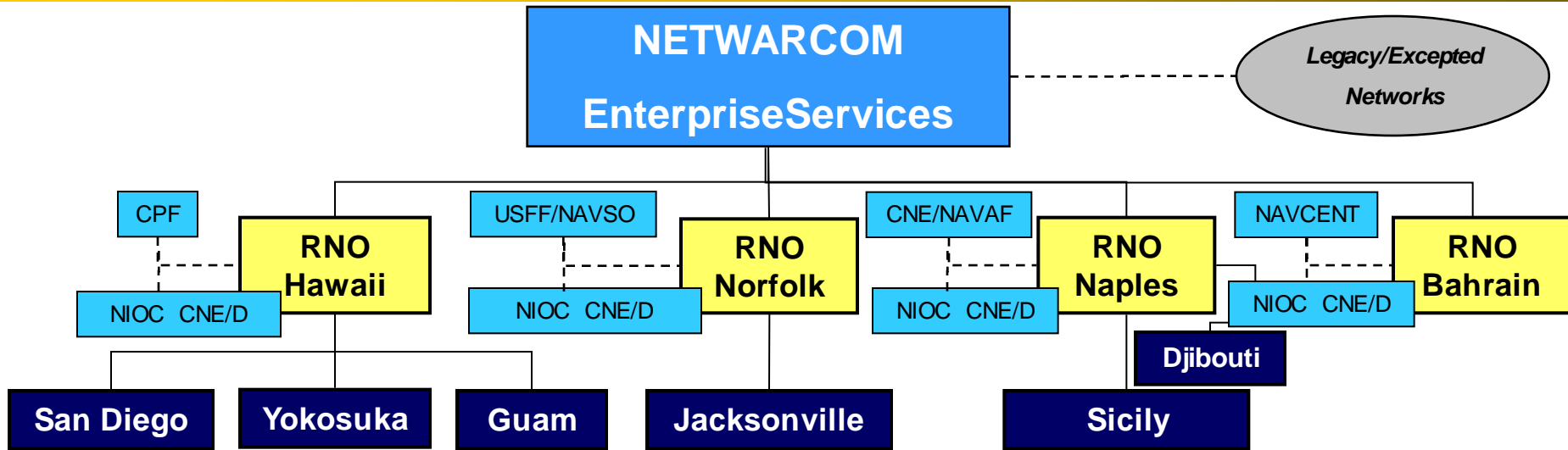
- **Early Transition Activities**
 - Phased Transition
 - Increases Gov't C2
- **Info Assurance Lead/Pace**



1 Oct 2010 – Transition Commenced



Alignment



- Supported Component Commander
- Regional NetOps Organization
- Subordinate NetOps Organization

**Aligned for Effective C2 and Standardization Across all Networks
Transparent Service to the Fleet**



Information Dominance Corps



Rear Admiral Ned Deets
Information Warfare Officer
&
Cryptologic Technician
Community Leader



Information Dominance Corps

INFORMATION PROFESSIONALS

160x
642x
742x

(~819 AC)
(~136 RC)

INFORMATION WARFARE

161x
644x
744x

(~1075 AC)
(~216 RC)

NAVAL INTELLIGENCE

163x
645x
745x

(~1528 AC)
(~1641 RC)

OCEANOGRAPHY

180x
646x

(~391 AC)
(~76 RC)

IT



(~10432 AC)
(~1496 RC)

CT



(~8340 AC)
(~706 RC)

IS



(~2748 AC)
(~1706 RC)

AG



(~1135 AC)
(~148 RC)

SPACE CADRE

5500x
6206x
Subspecialists

(~954 AC)
(~163 RC)

Civilians

(~7,858 IT)
(~374 IW)
(~2,735 Intel)
(~320 Space)

45K IDC Personnel



Joint Crew Composite Squadron

Navy EW Success Story ...

- Competency across all warfare areas (E-4 to O-6)
- Technical capability and warfighter ethos
- Assisting USA and USMC by filling EW gaps and building operational EW culture



An innovative application of our Sailors and our capabilities

Combined Explosives Exploitation Cell (CEXC)

UNCLASSIFIED



Think: CSI



Forensic data and analysis save lives

UNCLASSIFIED

Joint NETOPS Control Center Baghdad

UNCLASSIFIED



From Sea to Shore....



UNCLASSIFIED



Time to Leave Your Comfort Zone

"(Who) will have the strength and the courage to put forth the ideas that truly change the way we act as an institution?"



Admiral Mike Mullen
Chairman Joint Chiefs of Staff
June 6, 2008

Questions?

RADM Ned Deets
Edward.Deets@navy.mil
(757) 417-6700