



# Industry Day Briefing



PEO



EIS



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## Dr. Gary A. Federici

Deputy Assistant Secretary of the Navy  
Research, Development and Acquisition  
C4I and Space Programs



# Industry Day Agenda

- **Opening**
  - Check-in / Admin
  - Welcome / Opening Remarks
  
- **Briefs**
  - Industry Feedback
  - Oversight / Schedule
  - Desired Industry Insight
  
- **Questions & Answers**



**Rear Admiral Bill Goodwin, USN**

**Assistant Chief of Naval Operations, NGEN  
NGEN System Program Office (SPO)**



**Captain Tim Holland, USN**

**Program Manager,  
Next Generation Enterprise Network (NGEN)**

- Industry Feedback
  - Survey Results
  - Request For Information (RFI) – White Paper Analysis
  - Service Design Specification (SDS) Industry Comments and Feedback
  
- Program Status Today
  - Service Design Specification (SDS) Status
  - IT Infrastructure Library (ITIL) NGEN Implementation
  - DON Analysis of NGEN Acquisition Alternatives (AoA)



# NEXT GENERATION ENTERPRISE NETWORK (NGEN)

## Mission

- Secure, reliable capability for the warfighter enabling
  - command and control
  - Business functions
  - Administrative functions
- **State of the art**, global networking environment that is responsive to the operational commander
- Builds on the lessons learned in developing the world's largest intranet

- Industry Day #1 “Foundational Concepts” held 8 September 2008
- 508 total registrants
  - 412 Industry / 96 Government
- 72 survey responses
  - 67 Industry / 5 Government
- Survey Comprised of 13 questions
  - 11 multiple choice / 2 open-ended

- Acquisition Strategy (31%)
  - Requested more information
  - Small business participation
- Program Segmentation (26%)
  - Specifications for each segment
  - Contract strategy
- Technical Requirements (23%)
  - Hardware
  - Software
  - Security ConOps
- Acquisition / Delivery Timeline (10%)

- Include Q&A session (48%)
- Transition Strategy (8%)
- Disseminate information electronically (32%)
  - NGEN reference library:  
[https://portal.peoeis.navy.mil/main/NGENlib/NGENRef\\_lib.aspx](https://portal.peoeis.navy.mil/main/NGENlib/NGENRef_lib.aspx)

- RFI Objective
  - Provide advantages and/or disadvantages of the notional segmentation approach
  - Provide any proposed alternatives
  - Provide transition approaches
- 42 Whitepapers received on September 29, 2008

- Advantages
  - DON can have companies that are “Best of Breed” in a particular functional area
- Disadvantages
  - Segmentation to multiple contractors increases risk
  - Accountability among contractors become less clear regarding issues and actions that cross segments
- Alternative approaches
  - Rearrangement of segments
- Transition approaches
  - Continue to run portions of NMCI in parallel with NGEN and then, phase out.

- Information Assurance
  - Must be consistent across all segments
  - Clear and direct guidance should be provided by DON
- Governance
  - Must have strong, central government authority
- Service Coordinator/Integrator
  - Essential for notional segmented service model
- Adopt ITIL methodology



# Service Specification (SS) Comments Overview

- NGEN Service Specification was made available for comment from 15 December 2008 through 16 January 2009
- 16 companies submitted 1576 comments
- Comments resulted in 10-15% change to Service Specification

RFI COMMENTS PLAYED A ROLE IN  
SHAPING AND DEFINING NGEN DETAILS



# Substantive SS Comments

Areas of Interest	Scope of Key Concerns
Segmentation and Management (775)	Segmentation <b>complicates</b> implementing ITIL functions and managing SLAs across segments
ITIL/ITSM (141)	Difficult to implement ITIL/ITSM on large network
KPPs (125)	How to allocate and implement across Segment
Government Retained Roles (108)	NETOPS improvements vs. commercial expertise
Technology (97)	Weigh risk to current operations by adding new solutions; DODAF; NMCI Technical Information
Sourcing Strategy (82)	Single vs multiple providers
Transition / Business (75)	Strategy for migrating current model to new model
Timeline (27)	When is IOC/FOC

- Increased information and documentation required
- Increased visibility, knowledge and understanding of the as-is environment (NMCI information and equipment) will be required to respond to NGEN RFPs

- KPPs must be defined so KPP is not dependent on performance of another segment
- Allow for investments to be made by the contractor team that can be recovered over a multi-year period of performance
- Manage NGEN as a development program rather than a re-compete
- Navy modify the NGEN acquisition approach to include a joint Navy/industry team for early stage development of ITIL v3

- NGEN's Service Specification
  - Traditional Systems Design Specification (SDS) provides detailed technical design attributes in support of the development of a new solution.
  - NGEN's Service Specification (SS) utilized the Systems Design Specification (SDS) Guide (dated April 2008) as the template.
  - Many of the SDS components were not considered applicable as NGEN does not include significant new systems or services development.
  - NGEN's Service Specification provides specifications for existing services for the purposes of re-competing or re-organizing the provisioning of those services.

- Sources of content changes
  - Internal DON organization comments
    - NETOPS, OPNAV, USMC and Echelon II Input
  - Industry Comments from RFI
- Appendix A – Service Specifications
  - Updated performance values throughout
  - Added, clarified and enhanced service specifications
  - Eliminated product specific references
- Appendix E – ITIL/ITSM
  - Clarified and expanded process and workflow descriptions

- The NGEN Baseline Services will consist of implementing NMCI 2010 Capabilities under an ITIL V3 Service Delivery Model
  - IA capability mandates will be included
  - Performance values for services were updated extensively to reflect government objectives for each service performance criteria
- NGEN will implement NETOPS



# NGEN Services\*

Services	Services
User Accounts	Data Storage Solutions
Data Center Operations	Software and Hardware Peripherals
WAN	Workstations
BAN	Thin Client
LAN	Deployable Workstation Capabilities
Wireless Network	Commercial Voice Connectivity
Voice over Internet Protocol (VoIP)	Mobile Voice
Remote Access Service (RAS)	Secure Mobile Phone
Directory Services	Video Teleconferencing (VTC)
Enterprise Portals	Network Printer
Authentication Services	Network Multifunction Device (MFD)
Malware Prevention and Detection	Desk Side Support
Security Configuration & Management	Messaging
Intrusion Protection System (IPS)	Work Flow and Collaboration Tools
Security Event Management (SEM)	Application Hosting
Host Based Security Services (HBSS)	Service Desk
Boundary and DMZ	End-User Training
Network Access Control (NAC)	Network Operations and IA Training
Security Certification and Accreditation (C&A)	NGEN Testing
Enterprise Data Center Design	

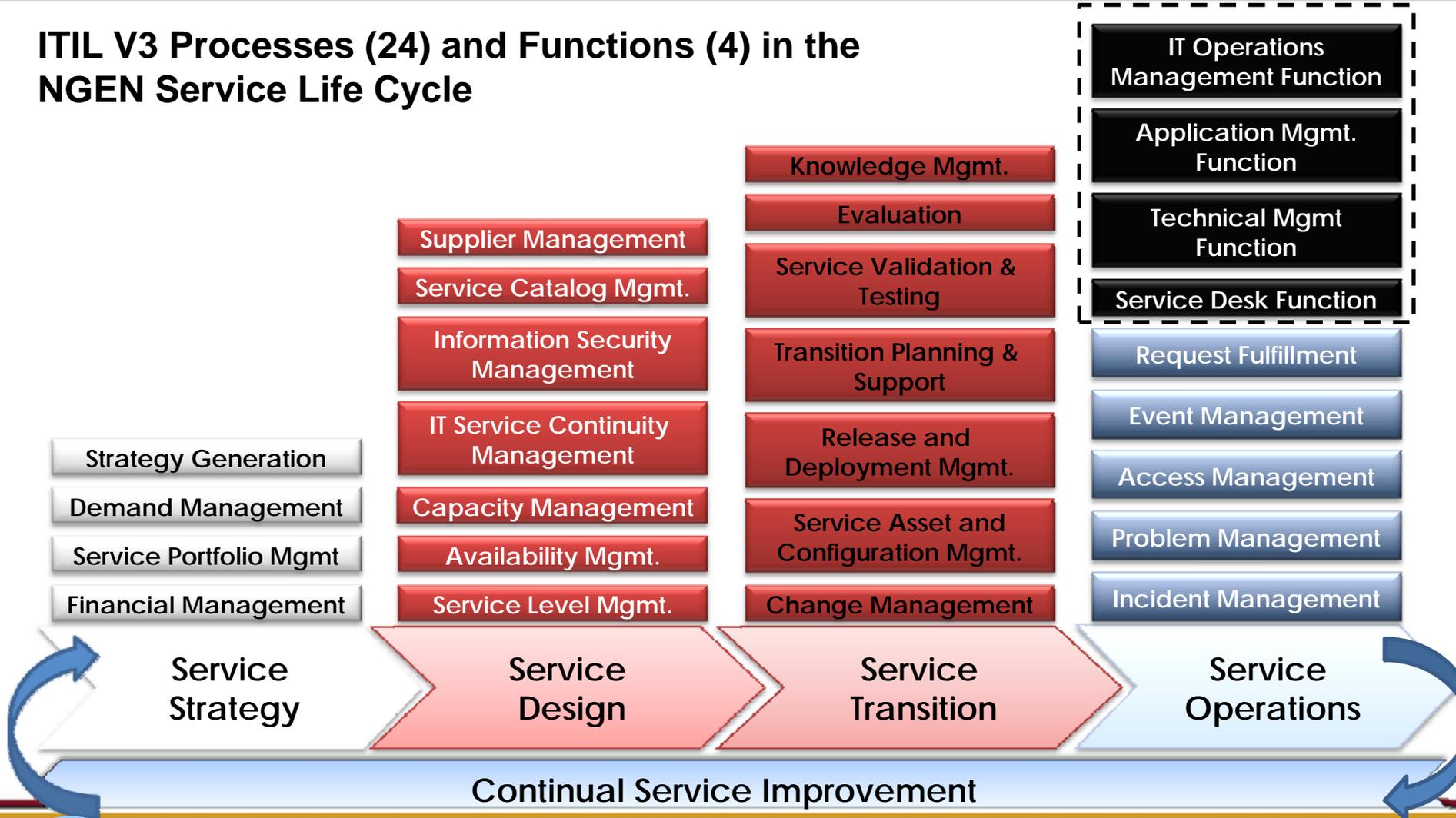
\* 39 Services as of 03/01/2009

NGEN  
Service



# NGEN Information Technology Infrastructure Library (ITIL) V3

## ITIL V3 Processes (24) and Functions (4) in the NGEN Service Life Cycle



### NGEN Service Delivery Optimized through a Shared Service Management Model

Services	Services
User Accounts	Data Storage Solutions
Data Center Operations	Software and Hardware Peripherals
WAN	Workstations
BAN	Thin Client
LAN	Deployable Workstation Capabilities
Wireless Network	Commercial Voice Connectivity
Voice over Internet Protocol (VoIP)	Mobile Voice
Remote Access Service (RAS)	Secure Mobile Phone
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Enterprise Data Center Design	

### NGEN SERVICES

- **NGEN Services** deliver identified technical and business capabilities in a secure, Net-Centric environment to meet warfighter/customer needs
- **INDUSTRY ROLE - Utilize expertise in provisioning and delivery of NGEN services**



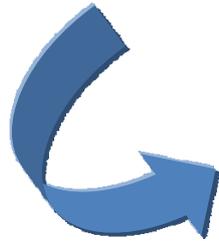
### NGEN SERVICE MANAGEMENT

- The DON will use ITIL v3 as a framework to identify service management processes; and shared roles and responsibilities
- **INDUSTRY ROLE – Utilize IT Service Management expertise to optimize NGEN service delivery**

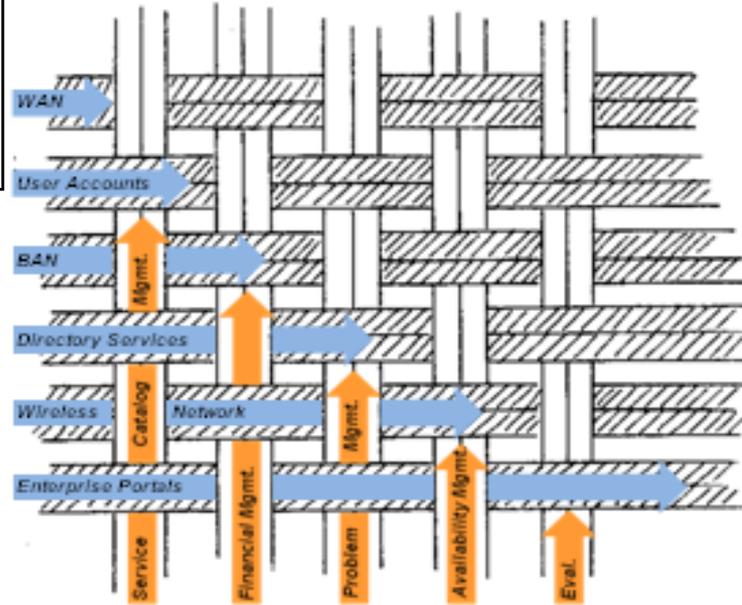
# NGEN Service Delivery Fabric

Services	Services
User Accounts	Data Storage Solutions
Data Center Operations	Software and Hardware Peripherals
WAN	Workstations
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NGEN Services

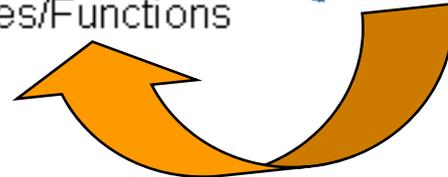


\*ITIL v3 Provides the Foundation of Enterprise Standards for Effective & Efficient Service Delivery

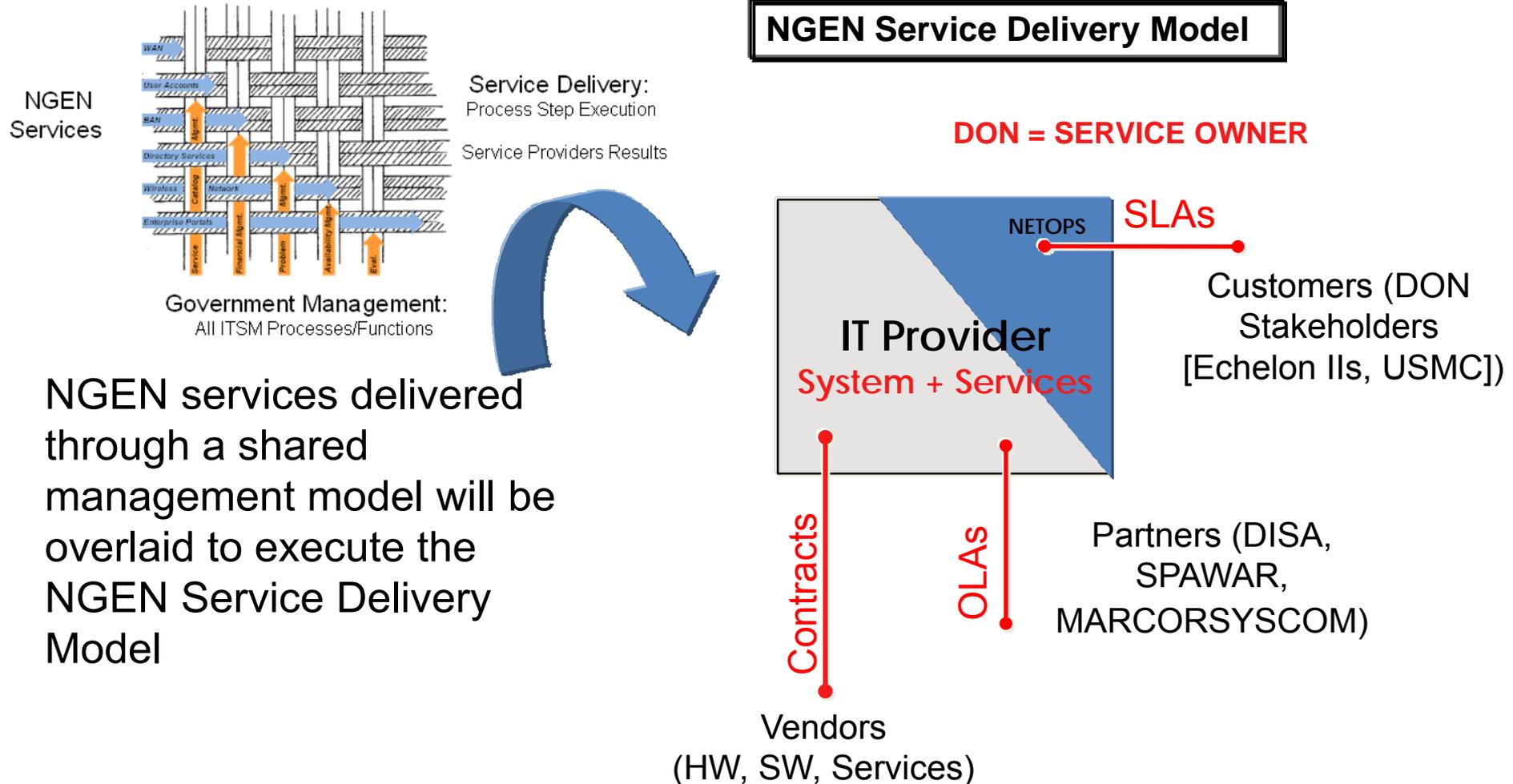


Service Delivery:  
Process Step Execution  
Service Providers Results

Government Management:  
All ITSM Processes/Functions



### NGEN Service Delivery Model

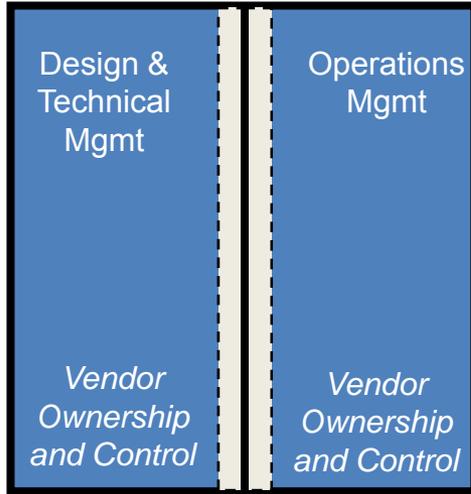


NGEN services delivered through a shared management model will be overlaid to execute the NGEN Service Delivery Model

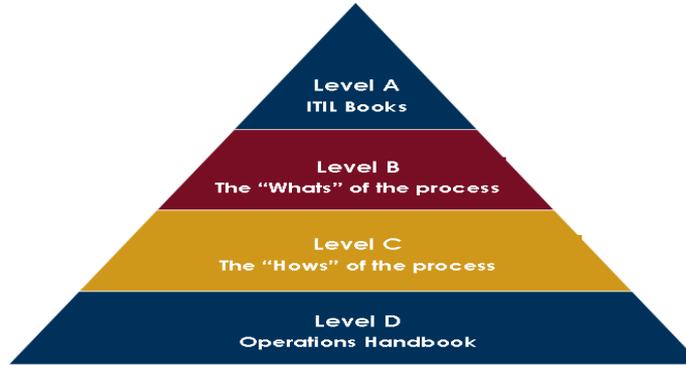
# ITSM Framework for Transition



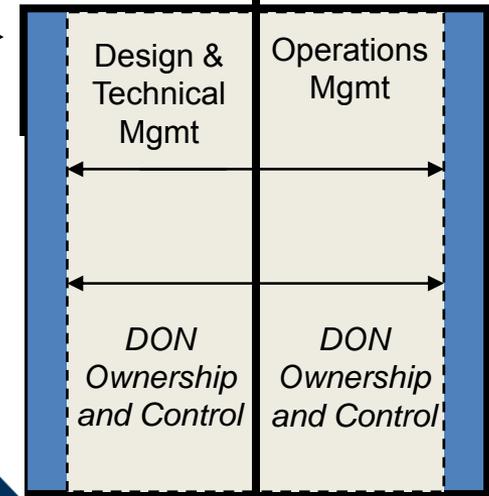
NMCI Roles and Responsibilities



DON Influence



NGEN Roles and Responsibilities



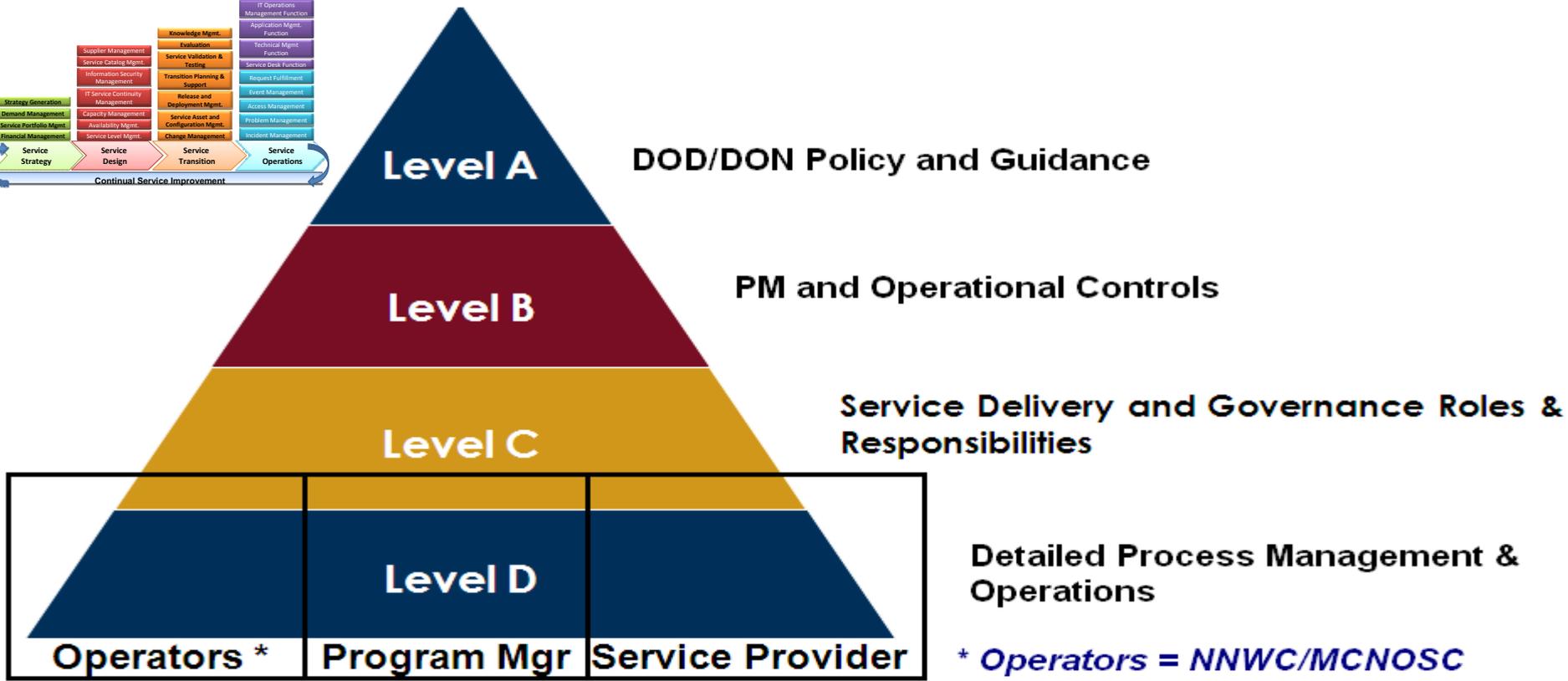
Vendor Supported

Vendor Supported

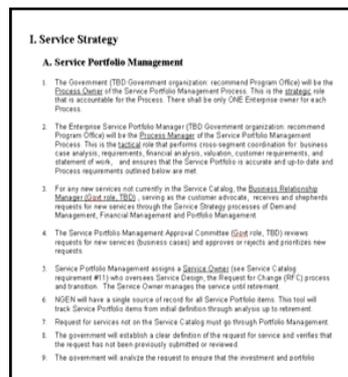


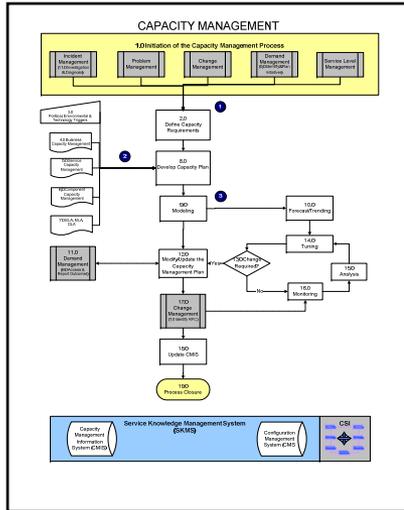
**NGEN's ITIL implementation significantly enhances the Government's ability to manage and operate NGEN**

# NGEN's Multi-level ITSM Approach



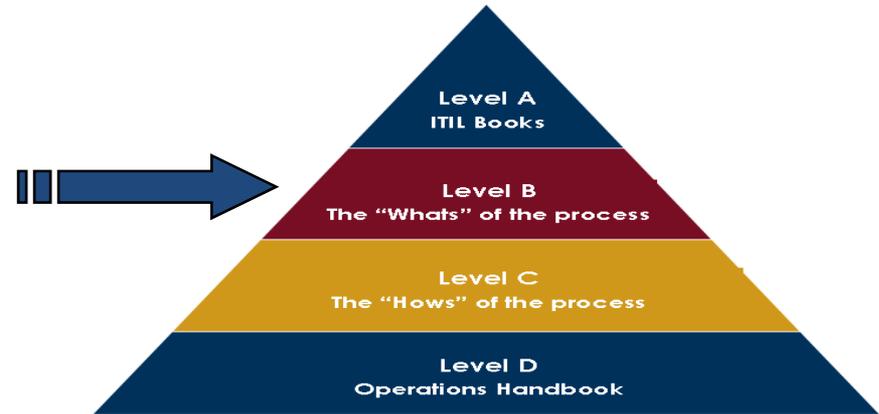
- **Level A - Attributes**
  - DOD/DON Policy and Guidance
  - Key Process Dependencies
  - High-Level Roles & Responsibilities
  - Tool Interoperability Requirements
- **Deliverables**
  - NGEN Service Specification (SS) Appendix E (ITIL Specifications)





**1.1.10 ARCI Matrix**  
The following Matrix is used to show who is Accountable, Responsible, Consulted and Informed.

Stakeholder	Process Owner	Process Mgr	Service Provider	Business/Operational Mgmt Team	Service/Operational Mgmt Team	Operational/Service Mgmt Team	Significant/Operational Mgmt Team
Process Owner	Sponsor / Leads process design to ensure that the process, tools, and policies are fit for purpose and meets the needs of all stakeholders (enterprise wide, including segment/service providers)	A/R	R	CI	CI	CI	I
Business/Operational Mgmt Team	Ensure that all NGEN stakeholders (enterprise wide) who are responsible for performing process procedures understand and are capable of performing	A/R	R	R	I	I	I



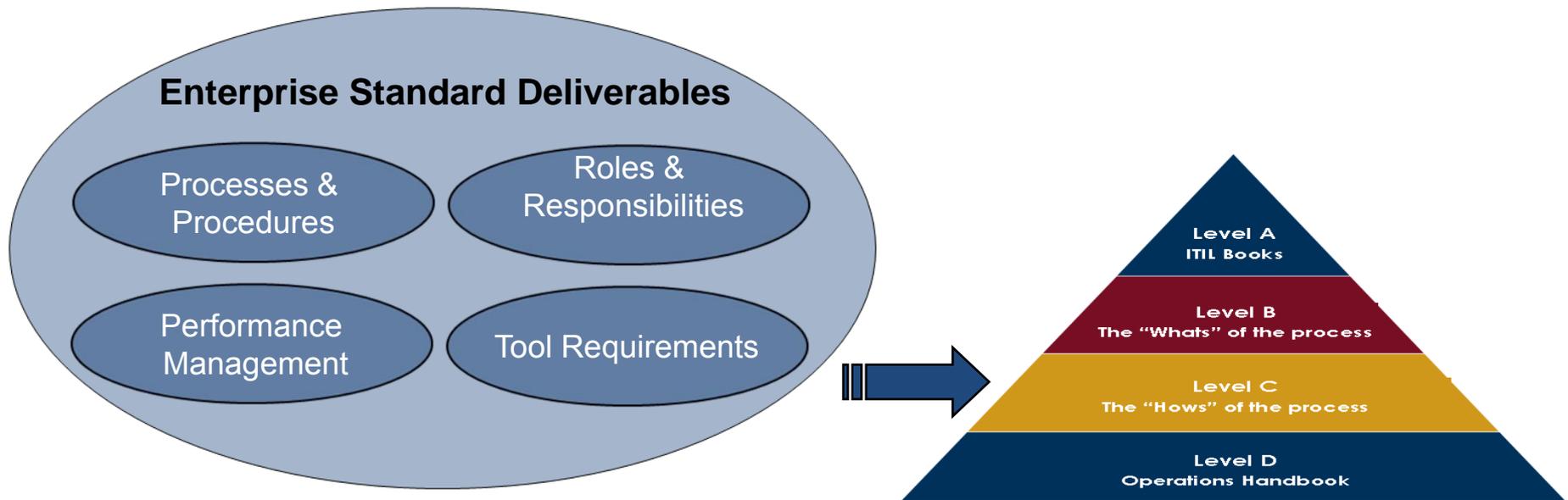
## • Level B - Attributes

- PM and Operational Control
- SOW & RFP Requirements
- High-Level Process Designs, Interfaces & Workflows
- Critical Success Factors (CSFs) & Key Performance Indicators (KPIs)

## • Deliverables

- NGEN ITSM Process Interface Document (PID)

- **Level C - Attributes and Deliverables**
  - Service Delivery and Governance
  - SLA Performance Criteria and Metrics
  - Process Boundaries and Constraints
  - Authority Matrix (RACI - Roles & Responsibilities)





- **Level D Attributes and Deliverables**

- Business Rule based Performance Enforcement
- SLA Capture and Adjudication
- Operations Handbook/Work Instructions
- Performed by combinations of DON Operators, NGEN Program Management and NGEN Service Providers

## The Process team consists of the following key members:

- Process Owner
- Process Manager
- ITIL SME (on the specific area of development)
- Representative SMEs from Government stakeholder organizations who are responsible, consulted or informed with respect to the process being developed

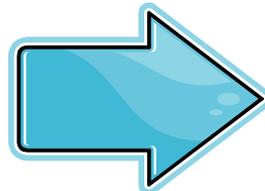


## Stakeholders Process



### Inputs to Process Design Teams

1. Gaps or pain points with current practices that need to be addressed
2. ITIL High Level Process Map
3. ITIL Training
4. ITIL SME Assistance



### Outputs from Process Design Teams

1. Process and Procedure Document
2. Policy Document
3. Roles and Responsibilities Document
4. Performance Management Plan
5. Tool Requirements Document
6. Training and Communication Plan

**Each Stakeholder is either a process owner or manager for each of the 24 ITIL Processes**

- Drafted NGEN IA Strategy (IAS) and conducting coordinating reviews with DAAs, DoN CIO, and DoD CIO
- Established IA WIPT to maintain IAS through Acquisition Life Cycle
  - Comprised of USN/USMC Concurrence/Approval Authorities, System Engineering Technical Review (SETR) Authorities, and DON Stakeholders
- NGEN Security Concept of Operations reviews have progressed and are nearing final approval
- The NGEN Service Provider(s) should expect a Red/Blue Team IA/Security Operations Cell (SOC)



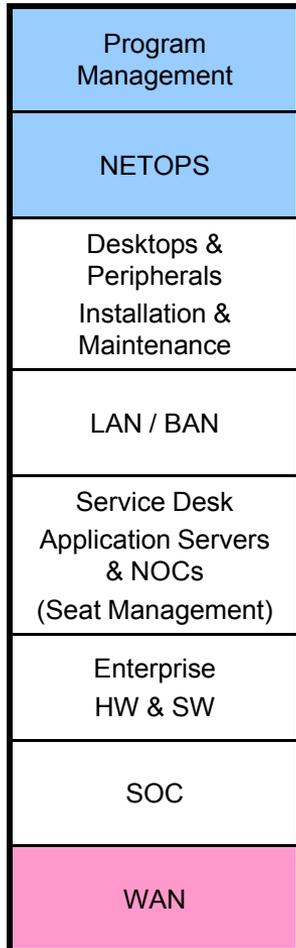
# NGEN Analysis of Alternatives (AoA)

- Center for Naval Analyses (CNA) is conducting the NGEN Analysis of Alternative Acquisition Strategies
- Alternatives to “NMCI Baseline”
  - Single Service Provider
  - Multi-Service Provider, major segmentation
  - Multi-Service Provider, minimal segmentation
- Assumptions
  - NMCI 2010 Capabilities w/ Mandatory IA
  - NMCI 2010 Scope

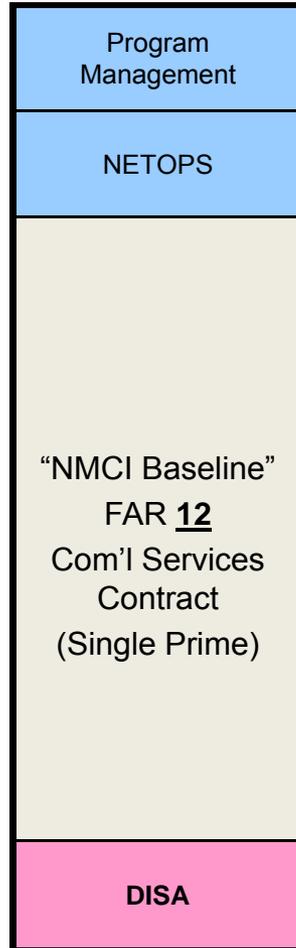


# NGEN AoA Alternatives

## NGEN Service Segments



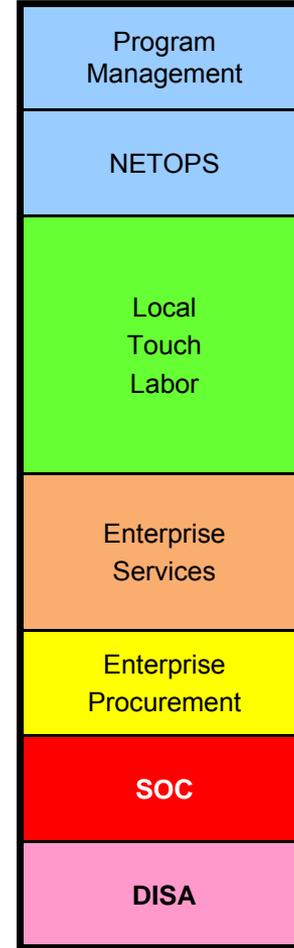
## Alt 1



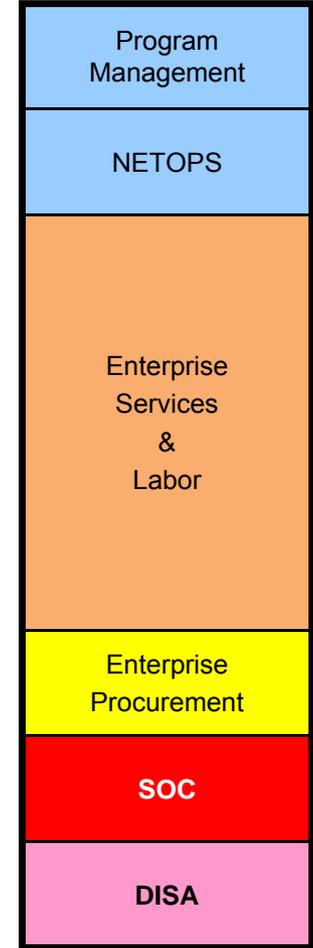
## Alt 2



## Alt 3



## Alt 3v





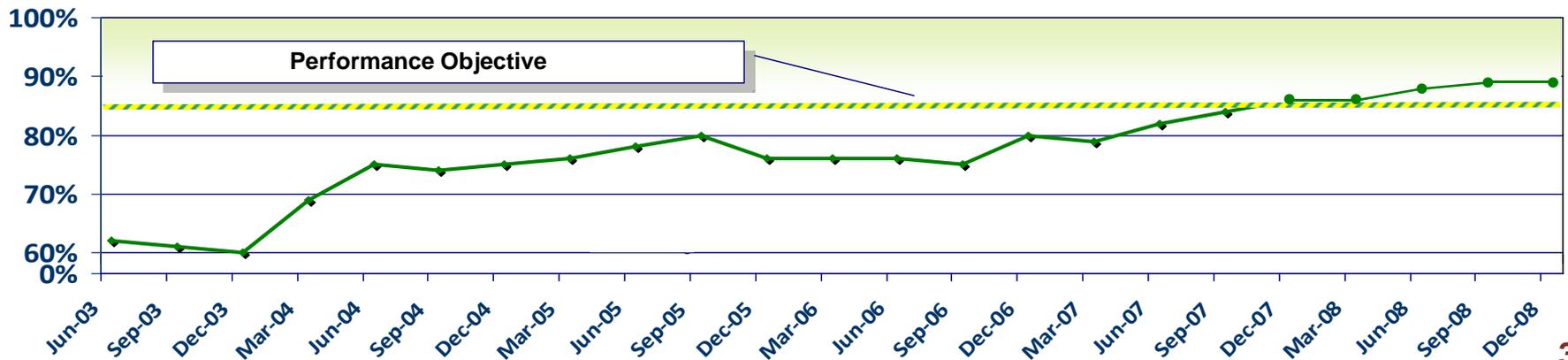
# NMCI to NGEN Transition Strategy

**Dr. John Gauss, RADM/USN (Ret)**

Acquisition Director  
Assistant Chief of Naval Operations (ACNO)  
Next Generation Enterprise Network (NGEN)

# Navy Marine Corps Intranet (NMCI) Status

- **Largest corporate intranet in the world**
  - Enterprise Scope – more than 344,352 NMCI seats delivered
    - More than 700,000 users in United States & Japan
    - 3,000 locations from major bases to single-user locations
    - 4 enterprise Network Operation Centers (NOCs)
    - 52 server farms; 3 service desks
    - 3.4 terabytes of data transported and 124 million browser transactions daily
  - Legacy Network Migration
    - 744 legacy networks have been moved to NMCI since December 2006
- **Secure – meets or exceeds DoD and JTF-GNO security mandates**
  - Completely implement Cryptographic Logon (CLO) mandate
  - More than 5.2 million unauthorized intrusion attempts prevented each month
- **Reliable – sustains an availability level of 99.8% or higher**
- **Customer satisfaction on the rise**





# Next Generation Enterprise Network (NGEN) Program Description

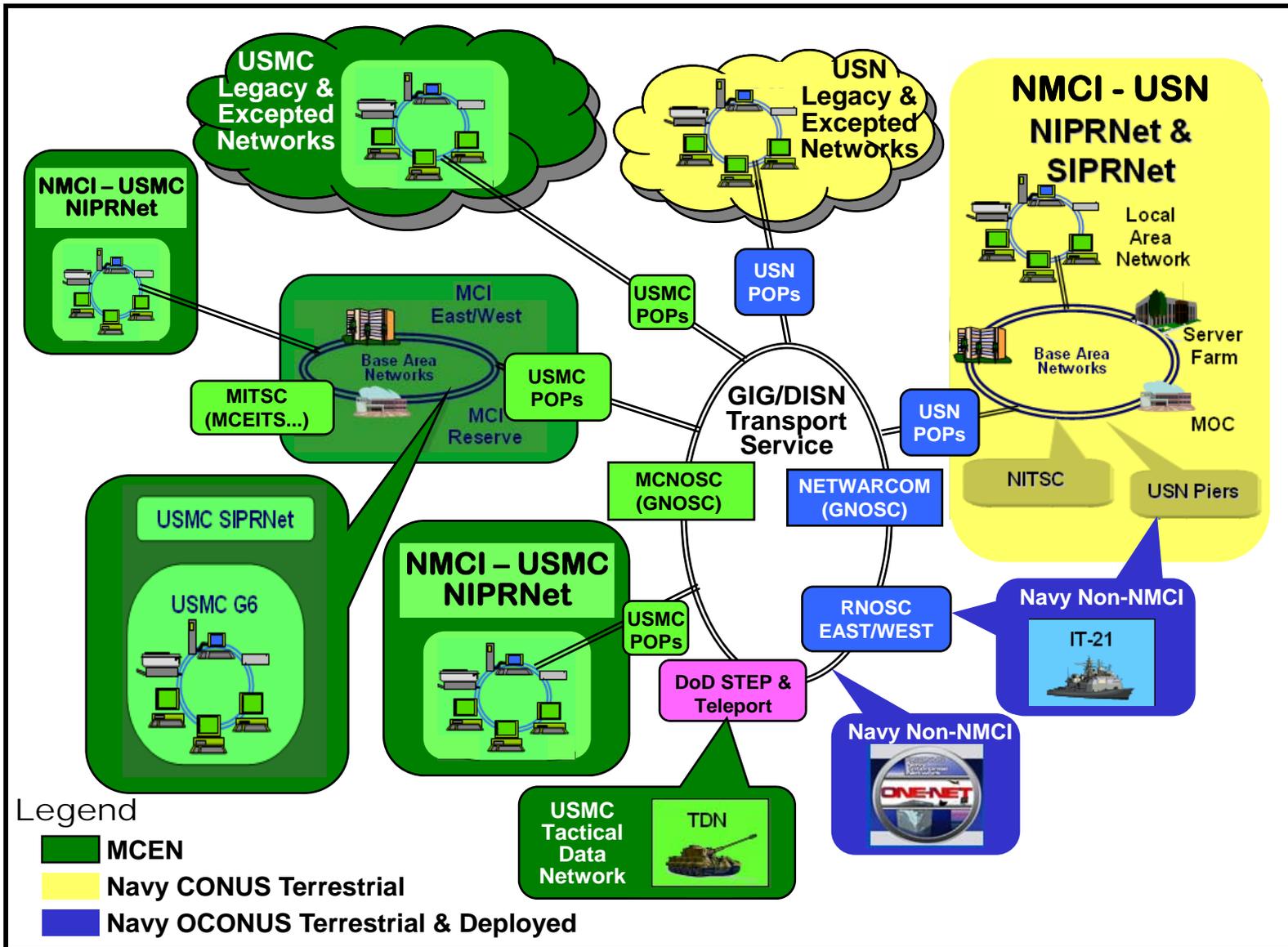
- The DON Next Generation Enterprise Network (NGEN) baseline will encompass:
  - The current Navy Marine Corps Intranet (NMCI) for the DON
  - Legacy network consolidation
- To meet the objectives of the Naval Networking Environment- 2016, future upgrades will transition baseline NGEN, ONE-Net, & IT-21/ CANES from three separately managed environments to a globally integrated, net-centric DoN enterprise to support Network Operations (NETOPS) and leverage the DoD Global Information Grid (GIG) and available DoD enterprise services

**NGEN will build on the successes of NMCI and benefit from lessons learned**

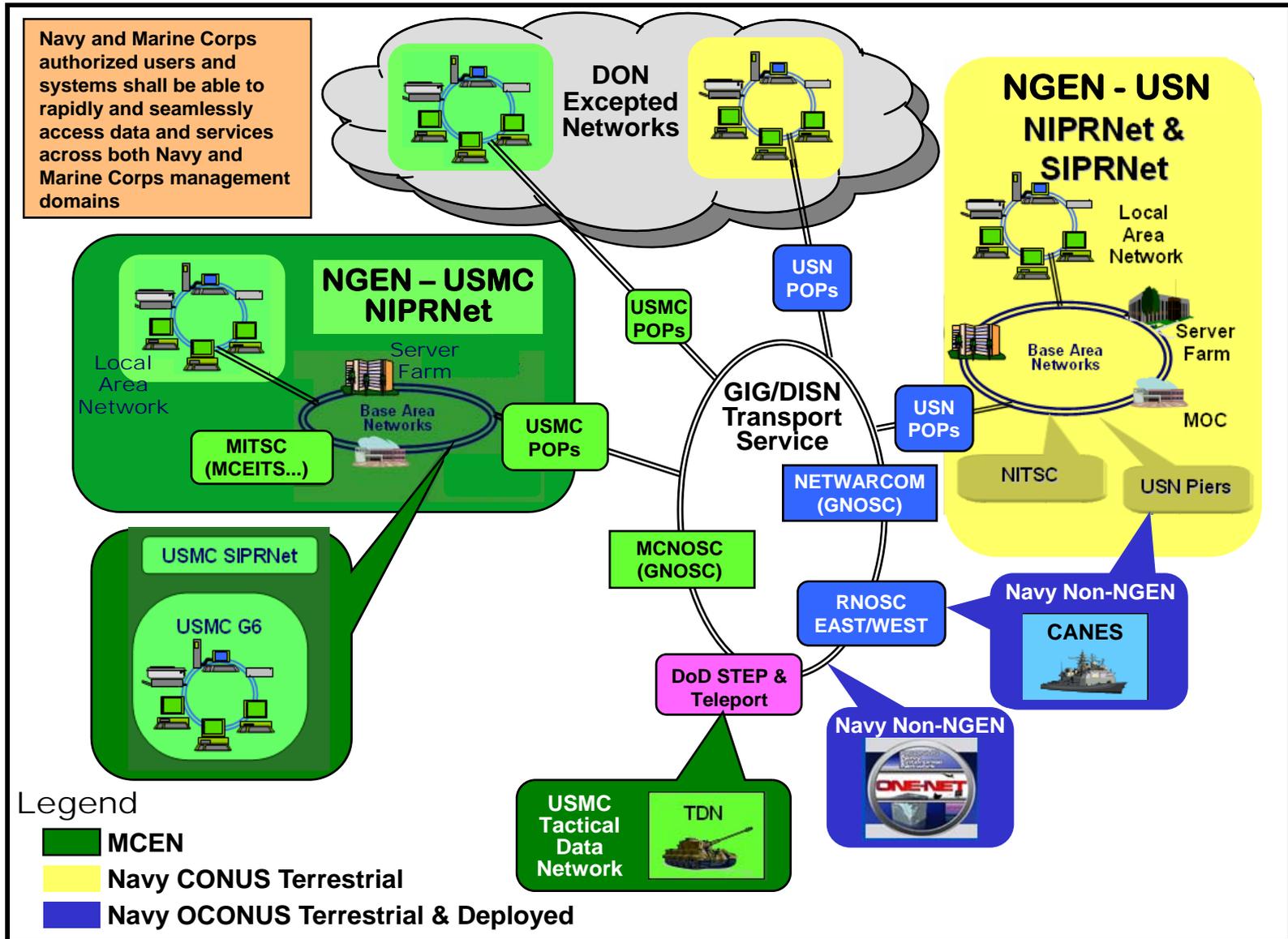
## NGEN Program Requirements

- **Developed by DoN wide Cross Functional Team**
- **Signed Requirement (May 08) Included:**
  - Functional Analysis
  - Scenarios (Business and Warfighting)
  - Wide range of users interviewed within Navy Echelon II and Marine Corps Major Subordinate Commands
  - Initial Costs/Schedule/Performance Studies
- **Signed NETOPS CONOPS (Apr 08) Included:**
  - Establishes requirement for Operational Control of the Network
  - Establishes requirements for Regional Control of the Network

# "As Is" Architecture



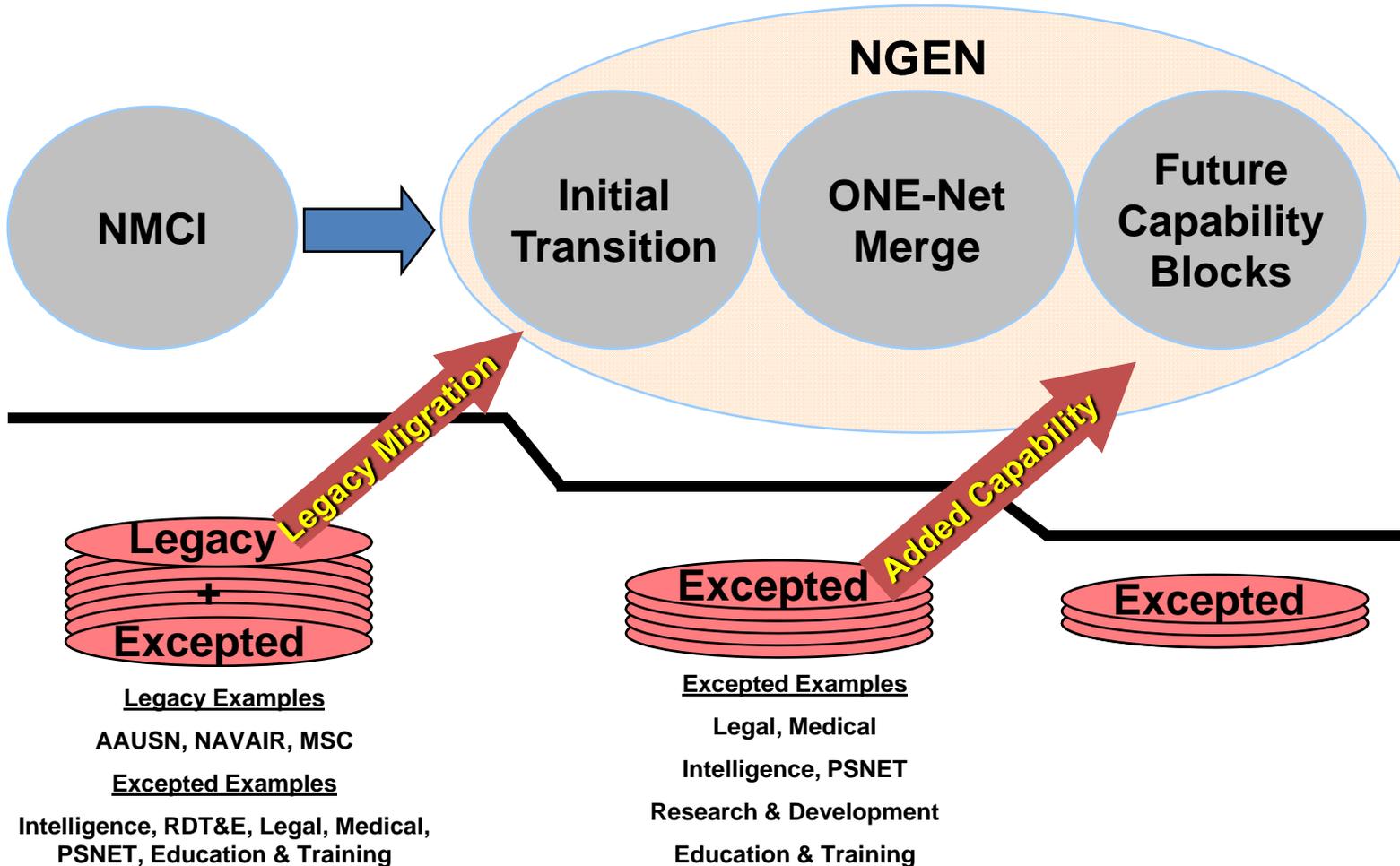
# "Next Step" Architecture



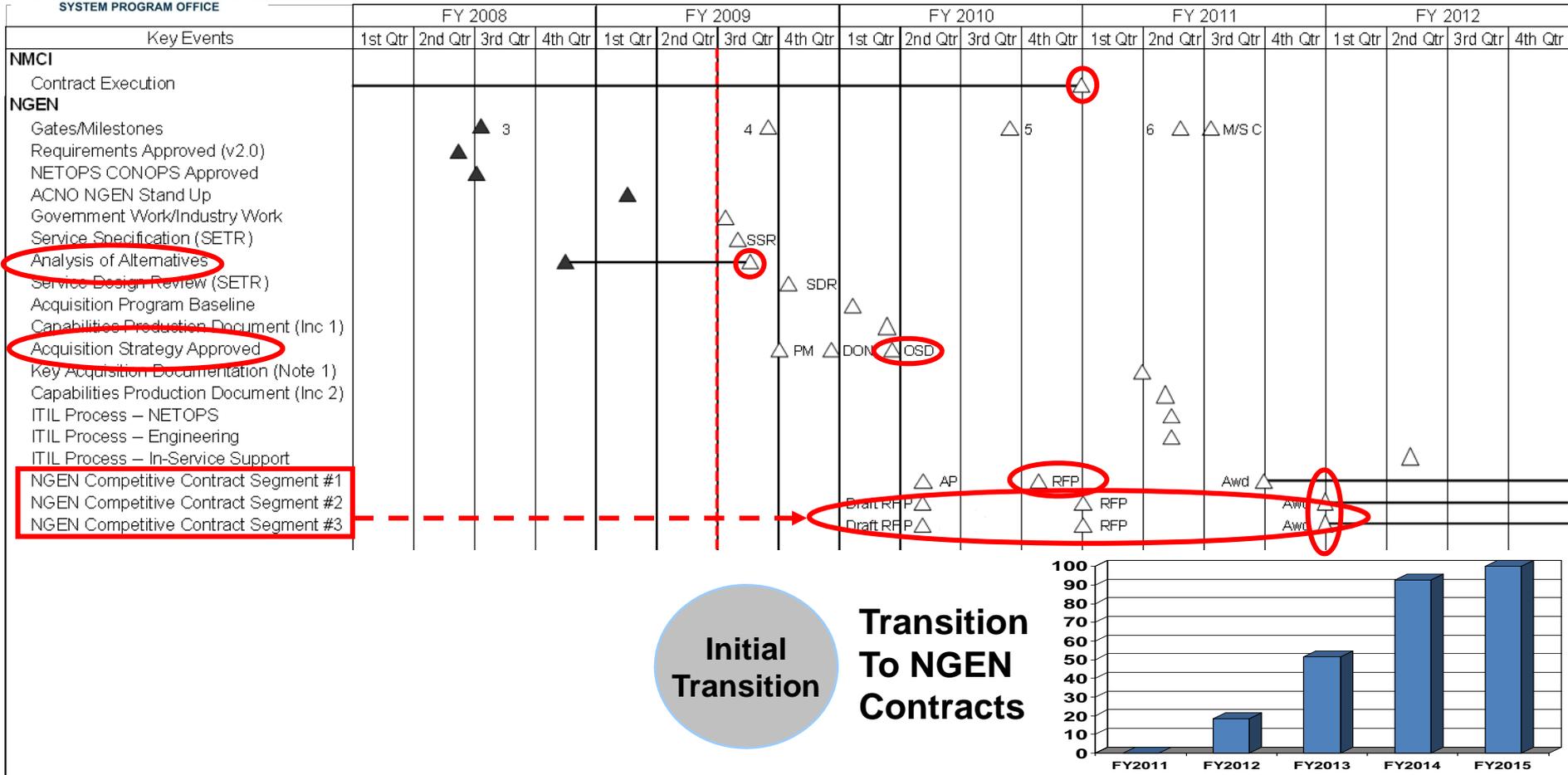
# NGEN Operating Concepts

- **As the DON transitions from the “As Is” architecture to the “Next Step” architecture, NGEN will be operated and maintained by the USN and the USMC as follows:**
  - For USN: decisions are made by Navy personnel but most decisions are executed via vendors under *services* contracts
  - For USMC: decisions are made by USMC personnel but most decisions are executed via government personnel or contractors supporting government personnel through *Level of Effort* (LOE) contracts
- **The acquisition approach to NGEN will support both operating concepts**

# Time Phased Evolution of NGEN



# NGEN Critical Milestones

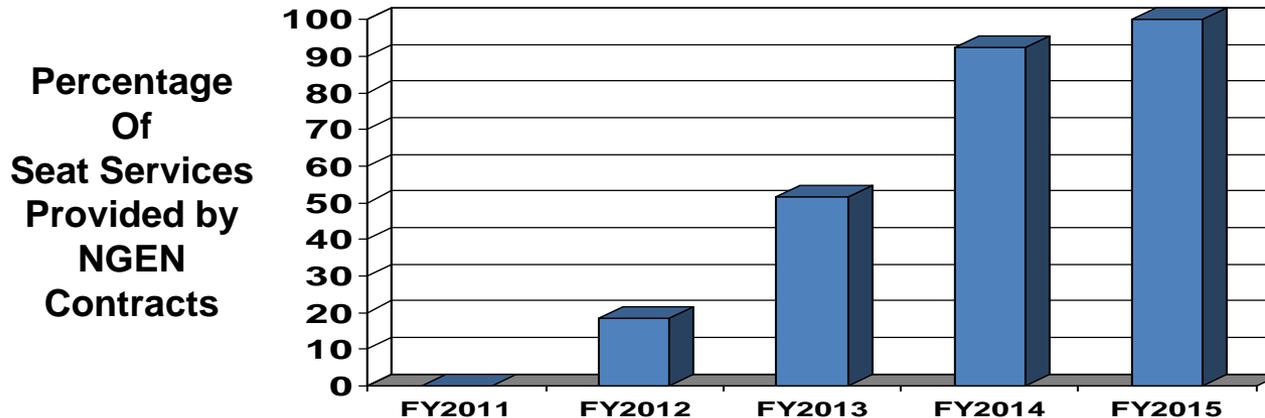


Note 1: Includes the Cost Analysis Requirements Description (CARD), Program Life Cycle Cost Estimate (PLCCE), TEMP, Independent Cost Estimate (ICE), Economic Analysis (EA), System Engineering Plan (SEP), Test & Evaluation Master Plan (TEMP), etc.

**NGEN Must Comply with DODI 5000.1 and DODI 5000.2  
Due to the Dollar Value of the Program**

# Transition from NMCI to NGEN

- The *notional* transition of seat services shown below assumes a 28 month transition time during which migration from an NMCI computing environment to a new computing environment would occur



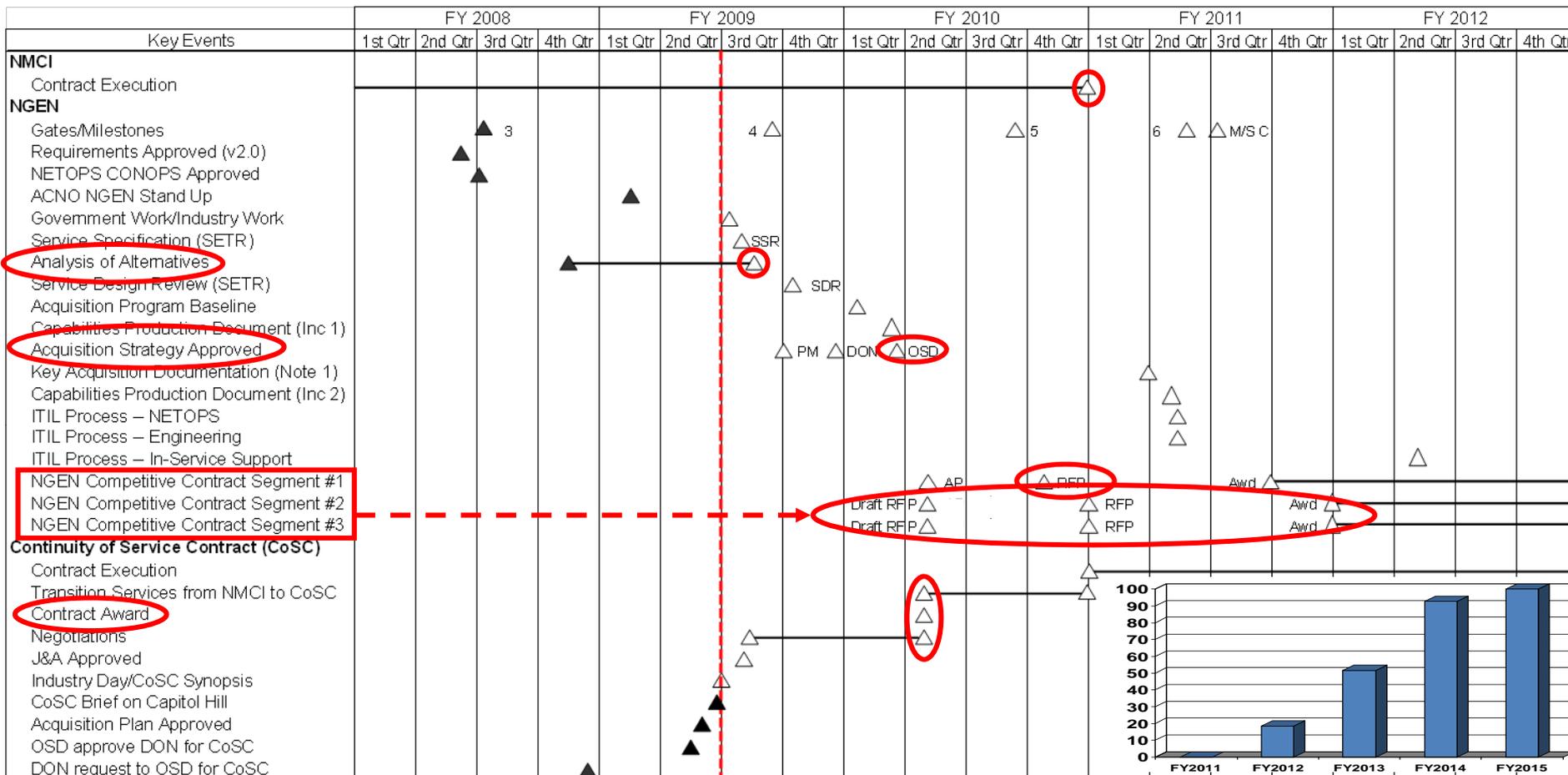
- Based upon the content of proposals received once NGEN RFPs are issued, the DON will accelerate the notional transition timeline to complete transition as fast as possible*

# Transition from NMCI to NGEN

- The NMCI contract ends on 30 September 2010
- On 1 October 2010, the business of the DON must continue
  - Continuity of service to support Naval missions is required
- The NMCI infrastructure, operating processes, operating procedures, and the technical data associated with NMCI is owned or controlled by EDS, an HP company
  - The infrastructure includes base level cable plants, building cable plants, facilities upgrades, server farms, Network Operations Centers (NOCs), end user devices, switches, routers, etc.
- In replacing the NMCI contract, the DON believes there will be contracts that will require
  - Use of the NMCI infrastructure
  - Access to the processes, procedures, and technical data

**The previous charts reflect a gap in service for FY2011.  
This gap in service must be addressed.**

# NGEN Master Schedule

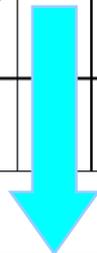
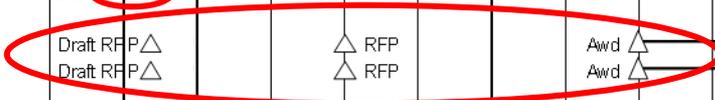
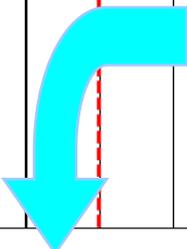


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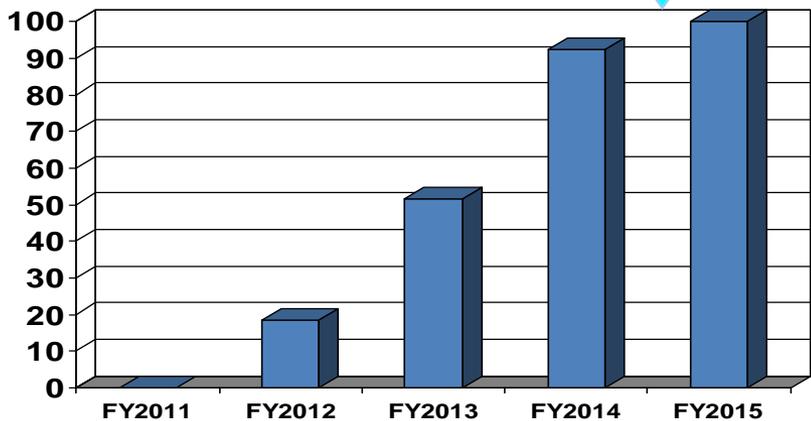
**A Continuity of Services Contract is Required  
To fill the Gap in Service for FY2011**

# Timeline Summary

Key Events	FY 2008				FY 2009				FY 2010				FY 2011				FY 2012			
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
NGEN																				
Analysis of Alternatives				←			⊖													
Acquisition Strategy Approved							△ PM	△ DON	△ OSD											
NGEN Competitive Contract Segment #2									△ Draft RFP											
NGEN Competitive Contract Segment #3									△ Draft RFP											
Continuity of Service Contract (CoSC)																				
Contract Execution												△ RFP	△ RFP							
Contract Award																			△ Awd	△ Awd



Key Events	Qtr 1		Qtr 2		Qtr 3		Qtr 4		Qtr 5		Qtr 6		Qtr 7								
	M01	M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M16	M17	M18	M19	M20	M21
<b>NGEN RFP Requiring Infrastructure and IP</b>																					
COSEC Award	△																				
RFP Draft to Industry for Comment	△																				
Time for Industry to Comment on Draft RFP	△	△																			
DON Review of Comments & Create Final RFP		△	△																		
DON Staffing of Final RFP			△	△																	
OSD Staffing of Final RFP with Peer Review				△	△																
Issue Final RFP					△	△															
Industry Develops Responses to RFP						△	△	△	△												
Government Evaluates Responses to RFP							△	△	△	△	△	△	△	△	△	△	△	△	△	△	△
Pre Award Reviews (with OSD Peer Review)																				△	△
Contract Award																					△



**Moving NGEN to a Competitive Environment**

# Transition from NMCI to NGEN

- Based on the identification of a gap in service detailed in the previous charts, a synopsis will be posted in FEDBIZOPPS this afternoon that announces the intent of the Department of the Navy (DON) to enter into a sole source contract with EDS to:
  - Provide Continuity of Service
  - Obtain the right to use the NMCI infrastructure and technical data for follow on competitive procurements
  - Provide for the transition of service from NMCI to NGEN

**The Transition Will Be Paced by the Proposals Received**

# Summary

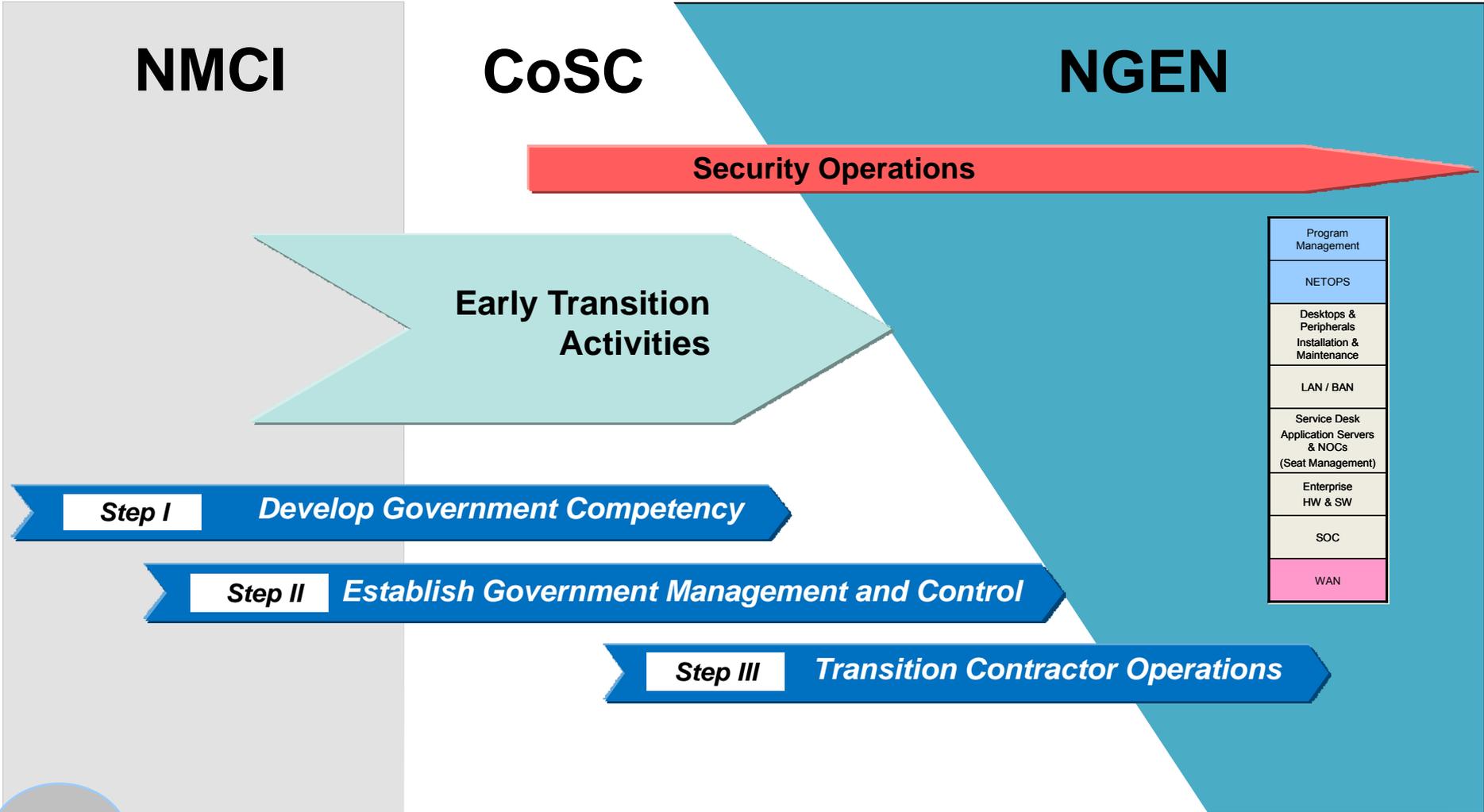
- The plan presented here gets the DON to a competitive environment as quickly as possible
  - The plan complies with the requirements of a DODI 5000.1/2 program
  - The plan provides for an aggressive transition schedule from NMCI to NGEN
  - Based upon the content of proposals received once NGEN RFPs are issued, the DON will accelerate the notional transition timeline to complete transition as fast as possible
- Finally, the plan allows the business of the DON to continue post 30 Sep 2010, through a Continuity of Services contract

**The Department of the Navy Needs Industry Support to Execute the Plan**



**Captain Tim Holland, USN**

**Program Manager,  
Next Generation Enterprise Network (NGEN)**



## Develop Government Competency

### Step I

#### *Representative Transition Efforts*

##### *Development*

- ITSM Center of Excellence Framework
- NETOPS Framework
- ETA Execution
- Governance/Transition Program Office (TPMO) Standup

#### *Key Objectives*

- Early Transition Activities
  - Enterprise ITIL Tools Identified
- Tactical transition plan for each retained C2 function

## Establish Government Management and Control

### Step II

#### *Representative Transition Efforts*

##### *Initial Functional Transfer*

- Transition of NGEN Enterprise Management and Control Functions
  - Governance
  - Information Assurance
  - Asset Management
  - (Enterprise) Network Operations Control

#### *Key Objectives*

- Early Transition Activities
  - ITSM/ITIL Processes Defined
  - Populate tools
- Begin Knowledge Transfer

## Transition Contractor Operations

### Step III

#### *Representative Transition Efforts*

##### *Implementation and Refinement*

- Transition of Tactical functions and services
  - Service Desk
  - Touch Labor
  - Server Farm Operations

#### *Key Objectives*

- Transfer 'run book' knowledge to Successors
- Conduct segment transitions



# Early Transition Activities (ETAs) Facilitate Migration to NGEN

- ETAs prepare the government for **improved governance** and greater participation in NGEN operational decisions
- ETAs provide the foundation for **full and open competition** for NGEN services
- ETAs **reduce risk of migration** to the NGEN Segmentation Service Model for both Industry and the Government
- This is accomplished by:
  - Establishing a standardized approach to service management (ITIL v3)
  - Positioning assets and facilities for flexible disposition
  - Reducing reliance on current contractor management systems and providing government access to key management information
  - Training and recruitment of key regional management personnel

- Description
  - Develop ITIL v3-based service management standards, process and procedures to support DON controlled network operations and management. Processes and implementation plans will be developed to establish operational competencies for retained functions.
- Risk Mitigation
  - **Schedule:** Minimizes transition timeline impacts.
  - **Performance:** Synchronizes ITSM effort at enterprise level and eliminates duplication/stovepipe/conflicting processes to achieve consistency of ITSM operations across NGEN stakeholders.
  - **Transition:** Detailed processes, procedures and organizational constructs will provide clear ownership and framework for implementation of other ETAs and transition to NGEN.



# Enterprise Tools Implementation

- Description
  - Tool Strategy and Roadmap to define and achieve IT service management end-state tool vision. Development of NGEN enterprise tool suite to provide integrated business/technical process relationships in accordance with the ITIL v3 lifecycle. This activity includes analysis of current tools, industry research, development of design requirements and interfaces, and vendor tool integration specifications to meet the needs of NGEN.
- Risk Mitigation
  - **Schedule:** Tool development is on the critical path for ITSM implementation, Statement of Work (SOW)/Request for Proposal (RFP) requirements for vendor tools, ability to order services at NGEN Initial Operational Capability (IOC).
  - **Performance:** Meet requirements of the customer, service provider and service/process owners in integrated tool environment.
  - **Transition:** Meet ETA and IOC requirements.



# CTR Workforce Reconstitution

- Description
  - The Contract Technical Representative (CTR) will interface with the customer and relay their requirements for enterprise services. The activity will develop enterprise-wide position descriptions and occupational standards for standardized training, advancement criteria and performance objectives.
- Risk Mitigation
  - **Schedule:** Impact to 2009-2010 Fleet Deployment and service delivery timelines.
  - **Performance:** Process Execution, Delivering Trained Workforce.
  - **Transition:** Enables/supports NGEN customer training.



# Shore Network Readiness Integration

- Description
  - This activity will define integration points between NGEN ITSM processes and other Fleet network processes to facilitate achievement of Naval Networking Environment (NNE) 2016. Ensures overall network readiness by establishing formal, integrated processes for requirements validation and adjudication, request fulfillment, change management and configuration management.
- Risk Mitigation
  - **Performance:** Reduces operational and technical risks by providing Enterprise processes and oversight.
  - **Transition:** Initial standup and development of governance constructs will significantly reduce service transition risk.

- Description
  - Determine Data Center requirements to support NGEN services.  
Includes developing the optimal constellation of data centers for NGEN.
- Risk Mitigation
  - **Performance:** Maintain service continuity.
  - **Transition:** Enable continuity of mission essential functions.

- RFIs -Continue to query industry
  - Security Operations Cells
  - Technologies to Accelerate Transition
  - “Cloud Computing”
  - Server Farm Consolidation
  - Alternatives to LAN/BAN Technologies (implement local transport)
- NGEN Reference library
  - Continue to make documentation available
- Industry Days
  - Discuss Acquisition Strategy
- NMCI Architecture Insights
  - Network Operations Centers (NOCs)
  - Server Farms
  - Installations



**NGEN INDUSTRY DAY  
NNE 2016  
31 MARCH 2009**

**Robert J. Carey**  
**Department of the Navy**  
**Chief Information Officer**



# NGEN WAY AHEAD

## TODAY'S NETWORK INFRASTRUCTURE

**Navy Marine Corps Intranet (NMCI)** – the DON's current shore-based network and operating environment in CONUS and select overseas locations

**Information Technology for the 21st Century (IT-21)** – portfolio of acquisition programs for afloat forces that provide networking capabilities to the fleet

**Marine Corps Enterprise Network (MCEN)** – portfolio of acquisition programs that provides network services to CONUS, OCONUS, and deployed Marine Air-Ground Task Forces (MAGTFs)

**OCONUS Navy Enterprise Network (ONE-NET)** – provides shore installations overseas, a single integrated network with a full range of services and a centralized control authority

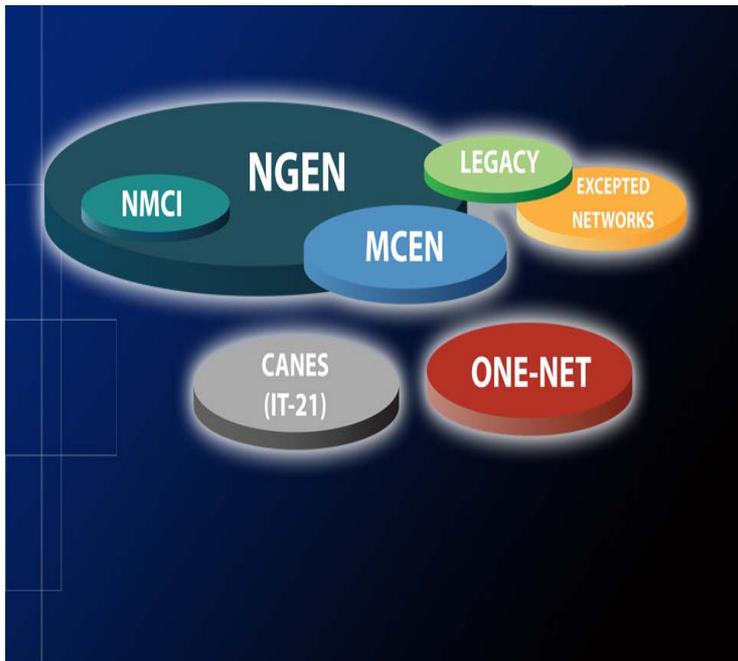
**Legacy networks** – support specific functions within individual DON organizations or cross-service functions.





# NGEN WAY AHEAD

## NETWORK INFRASTRUCTURE – 2010 – NGEN



- **NGEN will be the network environment following NMCI and be the foundation of the NNE**
- **Will consist of a family of networks and be the naval component of the GIG**
- **Capabilities will be delivered in increments or “Blocks”, taking advantage of lessons learned from NMCI**
- **Will provide improved reliability, adaptability, security, governance, and enable warfighter mission accomplishment**
- **Governance structure will allow for greater governmental oversight and contractual flexibility**
- **Enterprise purchasing model will be used to provide cost savings for standard desktop suites**





# NETWORK ARCHITECTURE ALIGNMENT

- **NNE 2016 Roadmap under development – access to information from any DON desktop**
  - Homogeneous network architecture to improve information access, security, and decision capability
- **Will align IT infrastructure and Core Services investments with goals and objectives of the NNE**
  - Interoperable, Joint enterprise environment guided by a common enterprise architecture and standards
- **Will include a common governance and operational construct that affords Navy and Marine Corps mission success**
- **Will resolve infrastructure interoperability challenges of today's environment, e.g.**
  - Deployable laptops (ashore to afloat and back)
  - Common IA posture
  - Trust across DON network enclaves
- **NNE 2016 V1.2 to be released 3QFY09**
  - Roadmap of investments to deliver the capability needed in 2016



[www.doncio.navy.mil](http://www.doncio.navy.mil)

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## *Questions and Answers*