Next Generation Enterprise Network-Recompete (NGEN-R)
Industry Day

CAPT Michael Abreu
Program Manager
Naval Enterprise Networks (PMW-205)
25 January 2017
Topics

- Network as Mission Enabler
- Delivering Capability & Program Priorities
- Services and Network Transformation
- NMCI & ONE-Net Convergence
- NGEN-R Contract Segmentation
- NGEN-R Acquisition Schedule
- NMCI Order-to-Payment Tools
“Our military will remain ready to deter and defeat threats to the homeland, including against missile, cyber, and terrorist attacks, while mitigating the effects of potential attacks and natural disasters.”

“We live in a time of growing cyber threats to U.S. interests. State and non-state actors threaten disruptive and destructive attacks against the United States and conduct cyber-enabled theft of intellectual property to undercut the United States’ technological and military advantage.

“Cyberspace will be operationalized with capabilities that span the electromagnetic spectrum – providing superior awareness and control when and where we need it.”

“Through the intelligent use of cyberspace, Navy warfighters will bring unique capabilities to the fight in order to achieve superior operational outcomes at the time and place of our choosing.”
We Deliver Capabilities

Cyber Security
- Mobile Data Protection
- Security Event Mgmt
- Security Configuration Management
- Identity Access Mgmt

Network
- Wireless
- Video
- Voice
- Boundary
- DMZ

End User
- Collaboration
- EU Computing
- Operating Systems
- Browsers
- Print

Enterprise
- Accounts
- Directory Services
- Hosting
- Messaging
- Data Storage

COIs
- Enterprise Log Mgmt
- Network Access Control
- Network
- S&T NCIS

Network Accounts
- Hosting
- Directory Services
- Accounts

Cyber Security
- Mobile Data Protection
- Security Event Mgmt
- Security Configuration Management
- Identity Access Mgmt
PMW 205 Program Priorities

1. Support successful operations & defense of the network
2. Integrate ONE-Net into the NGEN business model
3. Continue to develop an effective program team with our mission partners and the service provider
4. Continue to enhance capability while we plan the future network architecture
Future: Services and Network Transformation

Constantly Changing Environment

- Greater emphasis on warfighting networks
- Customer and stakeholder demands for:
  - Delivery speed-to-outcome
  - CONUS and OCONUS consolidation: global services
  - Network availability, reliability, and security
  - Tailored service performance standards
  - Unified Capabilities
- Cloud technologies for improved service provisioning (e.g. productivity & app hosting) - fewer contractual actions required (but lessgov’t control)
- Multiple contracts, longer base years
- Multi-contract/multi-vendor ordering
- Vendor-managed data centers
- Joint Service security and service delivery initiatives (flexibility)
- Gov’t/Vendor service strategy alignment
CURRENT STATE

NMCI
CONUS Network
GO/CO Model
Contractor - HPE

ONE-Net
OCONUS Network
GO/CO & GO/GO Models
Contractor - CSRA

NETWORK INTEGRATION

END STATE

PMW-205 REGIONAL DETACHMENTS WILL PROVIDE A BRIDGE CONNECTING THE CUSTOMERS WITH THE SERVICES PROVIDER

- Improves customer satisfaction through regional support for new requests, issue/problem resolution, policy/process clarifications, and operating model transition
- Staffed to provide NGEN-R contracts management, NGEN-R and OCONUS business model alignment, customer engagement, and NGEN-R service subject matter experts

Continued global legacy network convergence per Navy requirements and alignment to a common global service delivery model

Improved and sustain positive customer experience through regional support elements

NGEN-R:
Enterprise Network
GO/CO Model
Contractor - Multiple Cloud Services

OPERATING MODEL:
Roles and Responsibilities functionally aligned and ready to support the NGEN-R Service Delivery Model

Working with NAVIFOR and NCTS Commanders to refine and socialize OCONUS plan
The Plan

Transforming from a single-source service model (on-premises) to a multi-source (on & off premises) service delivery model – flexibility is needed in the future state to change approach when warranted

Current State

Single-Source Delivery Model

Single Prime Vendor
All IT Services in portfolio delivered by a single vendor for the entire enterprise.

34 NGEN Services – Single Contract

<table>
<thead>
<tr>
<th>Enterprise</th>
<th>Network</th>
<th>IA</th>
<th>End User</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ent. Operations</td>
<td>BAN &amp; LAN Services</td>
<td>Security Config. &amp; Mgmt.</td>
<td>COTS HW and SW</td>
</tr>
<tr>
<td>Data Storage</td>
<td>Security &amp; IT Cert and Accreditation</td>
<td>Remote Access (RAI)</td>
<td>Print Services</td>
</tr>
<tr>
<td>Ent. Messaging</td>
<td>Malware Detect and Protection</td>
<td>Support</td>
<td></td>
</tr>
<tr>
<td>App Hosting</td>
<td>Security Event Mgmt.</td>
<td>Desk Side Support</td>
<td></td>
</tr>
<tr>
<td>Ent Web Portal</td>
<td>Authentication and Authorization</td>
<td>End User Training</td>
<td></td>
</tr>
<tr>
<td>Collaboration</td>
<td>Network Access Control</td>
<td>NetOps and IA Training</td>
<td></td>
</tr>
<tr>
<td>Directory</td>
<td>COOP, DR &amp; Contingency</td>
<td>File Removal</td>
<td></td>
</tr>
<tr>
<td>COOP, DR &amp; Contingency</td>
<td>Testing</td>
<td>Elec. SW Delivery</td>
<td></td>
</tr>
<tr>
<td>File Removal</td>
<td>Voice, Video &amp; Data</td>
<td>UNCLASS Mobile Phone</td>
<td></td>
</tr>
<tr>
<td></td>
<td>VCP Options</td>
<td>Security Event Mgmt.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Authentication and Authorization</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Network Access Control</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Testing Services</td>
<td></td>
</tr>
</tbody>
</table>

Future State

Multi-Source Delivery Model

Multiple Vendors
Service provisioning, delivery and integration using multi – sourcing approach

1. Productivity
   - Collaboration Services
   - Enterprise Messaging
   - Voice Services
   - Mobile Device Asset Management
   - Business Solution Services
   - Cloud Orchestration
   - Video Teleconferencing Services
   - Social Networking Services
   - Productivity Software as a Service
   - Hardware & Initial Core Build
   - End User Hardware

2. Commercial Cloud Hosting
   - Infrastructure as a Service (IaaS)
   - Platform as a Service (PaaS)
   - Software as a Service (SaaS)
   - Storage as a Service (STaaS)
   - Cloud Orchestration
   - Core Network Services (SDN)
   - End User Computing
   - End User Training

3. Service Management , Integration & Transport
   - Service Delivery
   - Service Design & Transition
   - Project Management
   - Professional Services
   - Infrastructure Core Build Services
   - Service Lifecycle Management
   - Knowledge Management
   - Device Management

4. End User Support
   - Service Desk
   - Service Desk
   - Service Desk
   - Service Desk
   - Service Desk
   - Service Desk

CUSTOMER DEMANDS

STAKEHOLDER INTERESTS

INDUSTRY TRENDS

All services in NGEN have been mapped to new model

DISTRIBUTION STATEMENT A. Approved for Public Release
Service Segment Overview

<table>
<thead>
<tr>
<th>Productivity Services</th>
<th>Service Management, Integration, and Transport (SMIT)</th>
</tr>
</thead>
</table>
| - Services that enable users to conduct business activities on end user devices, i.e.:  
  - Office solutions  
  - Web conferencing  
  - Online knowledge sharing  
  - Mobile device asset management |
| - Intend to leverage future DISA DEOS vehicle |
| - DCAO acts as Cloud Broker (governance)  
  - Manage the homing, use, performance, and delivery of cloud services  
  - Negotiate relationships between cloud providers and DON |
| - Cloud Store 2.0, DCAO managed – Awarded 29 Sep 2016 with limited scope to begin transition  
  - Cloud Store 3.0 acquisition effort in planning stage |
| - Service Management  
  - End-to-end service delivery & oversight  
  - Continuously improve service delivery through a Defense Enterprise Service Management Framework |
| - Service Integration  
  - Integrate network services with Government partnership  
  - Implement Operational Level Agreements with Gov’t oversight |
| - Transport  
  - Local area network transport  
  - Long-haul from DISA |
| - Will transition applicable Services from this area into Productivity Services over time |
| - Device management  
  - Includes configuration, imaging, delivery, hardware maintenance, break/fix support, and end-of-term disposition of NIPR/SIPR user devices and associated peripherals. |

Commercial Cloud Hosting Services

- Enable ubiquitous, on-demand access to a shared pool of configurable computing resources for Navy applications  
  - Networks, servers, storage, applications, and services  
  - Rapidly provisioned and released with minimal management effort  

- DCAO acts as Cloud Broker (governance)  
  - Manage the homing, use, performance, and delivery of cloud services  
  - Negotiate relationships between cloud providers and DON  

- Cloud Store 2.0, DCAO managed – Awarded 29 Sep 2016 with limited scope to begin transition  
- Cloud Store 3.0 acquisition effort in planning stage
### Overall Schedule

<table>
<thead>
<tr>
<th>PROGRAM ACTIVITY</th>
<th>FY16</th>
<th>FY17</th>
<th>FY18</th>
<th>FY19</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
</tr>
<tr>
<td>NGEN-R ACQUISITION STRATEGY (AS)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DEVELOPMENT, STAFFING, AND APPROVAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DISA Acquisition Sensitive</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DISA Defense Enterprise Office Solution (DEOS)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMMERCIAL CLOUD HOSTING (DCAO)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SERVICE MANAGEMENT, INTEGRATION, AND TRANSPORT (SM/I/T)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>END USER HARDWARE (EUHW)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Extensions required for:**
- NGEN EUHW (transition to NGEN-R)
- ONE-Net (ends Jan 2017, must align with NGEN contract end)
Multi-Vendor Multi-Contract (MVMC) ordering capability is critical to executing future model.

- NMCI Enterprise Tool (NET) - DON IT ordering application
- eMarketPlace (eMP) - HP task order application
- Enterprise License Agreement (ELA) - contract that defines the purchase agreement of software and associated services
- End User Hardware (EUHW) - contract to provide end user equipment

As-Is

Customer Request

CTR

NET
Create Task Order (TO) Request

TO Request

Delivery Confirmation

HPE Services
- eMP Create TO
- ACO Issues TO
- HP Generates Invoice
- COR Certifies Invoice

Payment

To-Be

CTR

Customer Request

TO Request

Delivery Confirmation

NET
Create Task Order (TO) Request

Create TO

ACO issues TO

Generates Invoice

COR Certifies Invoice

Payment Notification

ElA
Adobe AutoCAD

Cloud Delivery
AWS Infrastructure (IaaS)
Storage (IaaS)
Software (SaaS)

Productivity Services
Video & Productivity Sharing Collaboration Services

Transport, Service Management, & Integration
Network Mgmt
Logistics Mgmt
Customer Engagement

TBD

Payment

PMW-205

Other Government

Vendor

DISTRIBUTION STATEMENT A. Approved for Public Release
Network and Delivery of Services Tomorrow

- Significant Cybersecurity focus
- Technology refresh of network infrastructure ongoing
- Expanding mobile devices capability
- Well over 100 projects in various stages of work
- Network Consolidation Initiatives underway
- Joint Regional Security Stacks (JRSS)
- ONE-Net convergence into NMCI

Need to drive increased capability for same or reduced cost