

byte Newsletter editor: [christopher.sgouros@navy.mil](mailto:christopher.sgouros@navy.mil)**In this issue:**

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**THIS MONTH IN TECHNOLOGY HISTORY**

**1943** - In December, the **COLOSSUS** computer went on-line to help the allied war effort decode the 'Enigma' encrypted messages.

**1958** - Jack St. Clair Kilby of Texas Instruments invented the first "integrated circuit" or "chip." Although it was simply manufacturing individual transistors within a single 'chip' - it catapulted the computer industry into an almost modern era.

**THIS MONTH IN BUSINESS HISTORY**

**1824** - N.Y. City's Fifth Avenue opens for business.

**1866** - Paid fire departments begin to replace volunteer companies.

**1953** - US Supreme Court rules (7-2) baseball is a sport not a business.

**2000** - U.S. retail giant Montgomery Ward announces it is going out of business after 128 years.

**Updated Compliance Requirements*****DON CIO Info Alert*****Call for IM/IT Excellence and Spectrum Leadership Award Nominations**

The Department of the Navy Chief Information Officer is pleased to announce the call for nominations for the 2012 DON Information Management/Information Technology Excellence Awards and the John J. Lussier Electromagnetic Spectrum Leadership Award.

**For details about the DON IM/IT Excellence Awards, visit:**  
<http://www.doncio.navy.mil/ContentView.aspx?ID=2937>

***DON CIO Info Alert*****Oct-Dec 2011 Edition CHIPS Magazine Now Online**

The Oct-Dec 2011 edition of CHIPS Magazine is now online at:  
[www.doncio.navy.mil/chips](http://www.doncio.navy.mil/chips).

This issue features interviews with Under Secretary of the Navy Robert O. Work and Rear Adm. Gretchen S. Herbert, Commander, Navy Cyber Forces, as well as features on the certification and accreditation transformation, human presence detection, Trident Warrior 2011 and SPAWAR's SAILOR 2.0.

***Acceptable Use Policy for DON IT Resources***

This message outlines acceptable use standards when using Department of the Navy information technology resources for official and authorized unofficial purposes. This message applies to all DON Information Technology (IT) resource users to include military, civilian, and contract support personnel. Appropriately controlling access to, and personal use of, DON IT resources is a leadership issue.

**For details visit:**  
<http://www.doncio.navy.mil/PolicyView.aspx?ID=2829>

***The DON SSN Reduction Plan Continues***

The Department of the Navy is eliminating the unnecessary collection of Social Security numbers (SSNs) to protect personally identifiable information (PII). The SSN, to include any form of the SSN, such as truncated, masked, partially masked, encrypted or disguised, is ubiquitous and a key data element used to commit identity fraud. The DON is eliminating SSN use where it is not necessary, or replacing it with another unique identifier, such as the Department of Defense identification number (DoD ID), which is associated with an individual's name. This article summarizes the department's SSN reduction efforts. **Phase 1** began in August 2010 with the release of a naval message issued by the DON CIO DTG 192101Z JUL 10: "DON Social Security Number Reduction Plan for Forms Phase One."

**For details visit:**  
<http://www.doncio.navy.mil/ContentView.aspx?ID=3071>

***DON CIO Info Alert*****Register now for DON IT Conference, West Coast 2012**

The Department of the Navy Information Technology Conference, West Coast 2012 will be held Monday, Jan. 23, to Thursday, Jan. 26, at the San Diego Convention Center. On Monday, Jan. 23 the conference sessions will be limited in scope to the Knowledge Management track only. No conference fee will be assessed, but registration is required. Pre-registration is now available on the DON CIO website.

**For details visit:**  
<http://www.doncio.navy.mil/contentview.aspx?id=2256>

## What's New?

### **Message from the DON CIO: Finding IT Efficiencies, Challenging but Necessary Work**

It has been a busy year for the Department of the Navy Chief Information Officer staff and the information technology efficiencies integrated product teams (IPT) as we analyze how the DON can improve the way business IT is purchased, managed and operated. This hard work will enhance the department's effectiveness, as well as result in real savings, as we grapple with shrinking budgets.

As a result of these efforts, several processes have been updated to improve the way the department manages business IT by providing better visibility into what is being spent, optimizing resources and acting in a centralized manner as one enterprise to improve our ability to negotiate the most favorable contracting terms.

As we work through this process of finding and analyzing potential efficiencies in the DON, we must also consider and explore what efficiencies may be gained by consolidating IT resources or investments at the DoD level. It is important to be prepared to have the conversation and do the analysis to determine which joint solutions make sense for the DON to adopt. This may include cloud services offered by the Defense Information Systems Agency (DISA). While DISA's enterprise solution may not always be the right solution for the DON, we will conduct a business case analysis to make that decision.

**To view more, visit:**  
<http://www.doncio.navy.mil/ContentView.aspx?ID=3083>

### **Certification & Accreditation Transformation**

Certification and accreditation (C&A) transformation is an initiative to align processes, terminology and frameworks for assessing information security risk across all federal agencies, including the defense and intelligence communities. This effort will provide efficiencies, standardization and support to reciprocity.

Reciprocity is an agreement among participating entities to accept each other's security assessment to reuse information security resources and accept each other's assessment and security posture to share information. This reduces rework and cycle time when deploying and receiving information systems from outside a single Department of Defense (DoD) component. Reciprocity between DoD components is based on transparency, uniform processes and a common understanding of expected outcomes.

**Read the full CHIPS magazine article here:**

<http://www.doncio.navy.mil/chips/ArticleDetails.aspx?ID=3005>



### **NUWC Newport Achieves IT Acquisition Efficiencies with DoD ESI**

The Department of Defense Enterprise Software Initiative, established in 1998 and sponsored by the DoD Chief Information Officer, was created to consolidate requirements for commercial software applications and negotiate with vendors to save time and money in the acquisition of software.

ESI's scope has since expanded to include information technology hardware and services. Since its inception, ESI has achieved cost avoidance of more than \$4 billion off commercial IT prices compared with prices published on the General Services Administration (GSA) Federal Supply Schedules.

In 2009, Laura DiPaola, a systems engineer at Naval Undersea Warfare Center, Division Newport, R.I., was tasked with purchasing a commercial off-the-shelf software suite. As a result, she conducted research on the requirements and processes to use an ESI Enterprise Software Agreement (ESA).

Rather than limit scope to a single acquisition, DiPaola explored how the division could maximize savings by expanding the use of ESI agreements. Working with the NUWC Division Newport command information officer, Robert Bernardo, as well as Stephen Lamb of the division's contracts department, DiPaola coordinated a team to initiate a Lean Six Sigma event with the objective of implementing a division-wide DoD ESI employment policy.

**To view more, visit:**

<http://www.doncio.navy.mil/ContentView.aspx?ID=3070>

# Information Technology Areas of Interest

## **Portfolio Management**

System annual reviews for FY12 are quickly approaching. Department of the Navy (DON) policy is that our information management / information technology (IM/IT) spending will focus on creation of a joint, net-centric environment to enable knowledge dominance for our naval warfighters and supporting establishment. We must invest only in projects that align with the Department's strategic vision and our goal of a secure, interoperable naval networking environment. DON commands and activities must comply with this guidance in order to release and/or obligate Fiscal Year (FY) 2012 funds for IM/IT investments. Decision makers and financial managers who fail to comply with policy carrying funding restrictions risk incurring Anti-deficiency Act (ADA) or administrative violations.

**For details visit:**

<http://www.doncio.navy.mil/PolicyView.aspx?ID=1394>

## **Architecture**

The annual reviews of BUPERS Defense Business Systems (DBS) programs of record require updates to the mapping of each system to several Enterprise Architecture products, including:

- CV-2 Capability Taxonomy
- OV-5a Operational Activity decomposition
- SV-4 System Function description
- OV-6c Business Processes

Additionally, BUPERS-07 takes the opportunity of the annual review to update the SV-1 System Interface description for each DBS. BUPERS-07 enterprise architects will participate in each annual review and assist in the preparation or update of the architecture products.

## **Data Management**

### **Country Code Transition**

Federal Information Processing Standards (FIPS) Publication 10-4, titled Countries, Dependencies, Areas of Special Sovereignty, and Their Principal Administrative Divisions will be retired and replaced with International Organization for Standardization (ISO) 3166-1, titled Codes for the Representation of Names of Countries and Their Subdivisions.

Undersecretary of Defense for Acquisition, Technology and Logistics (USD/ATL) memo "Department of Defense Country Code Standard, dated 6 June 2011 directs DoD to implement a US Profile of ISO 3166-1, Country Codes (either digraph or trigraph) by 30 September 2012.

**Updated Country Code DoD Tiger Team briefs can be located here:**

[http://www.artelinc.com/DISR/DISR\\_ITSC\\_Briefings.htm](http://www.artelinc.com/DISR/DISR_ITSC_Briefings.htm)

To contact an EIM Team member please send correspondence to: MPTE\_EIM@navy.mil

## **Information Assurance**

DoD IA Awareness Training CBT: Per DoD 8570.01-M, page 43, the DISA "DoD IA Awareness," course is the DoD baseline standard and must be provided initially, and thereafter, annually. The manual also states the Services are expected to address organization specific topics and local incident reporting procedures. The annual IA awareness training is more than a DoD 8570.01-M requirement, it is also directed by FISMA and SECNAVMAN 5239.2. No official message was promulgated by the Navy for FY11. However, in the next 3 months, CIOs/IAMs will be required to report this information (number of users and number receiving IA Awareness training) forward through their CoC to satisfy FISMA requirements. The IA Awareness Course may be taken through Navy e-Learning, or Total Workforce Management System (TWMS).

## SPAWAR Systems Center Atlantic Data Center Unveiled

CHARLESTON, S.C. – SPAWAR Systems Center Atlantic unveiled a new data center that will play a key role in consolidating more than 100 Navy data centers to increase effectiveness and efficiency to reduce costs while still meeting the Navy's security and operational requirements.

The Department of the Navy Chief Information Officer Terry Halvorsen and Dave Weddel, Assistant Deputy Chief of Naval Operations for Information Dominance, were keynote speakers at the ribbon cutting event. Both officials explained how the center fits into the Navy's future plans.

"This data center will be part of the Navy's data center consolidation effort. Not only is this data center efficient, it's green -- that is another big piece of what we want to do. We need to protect the environment and the resources that we have. This data center will help us do that," said Halvorsen, who is the DON's senior official on matters related to information management, information technology/cyberspace and information resources management. He is also the department's lead for IT/cyberspace efficiency.

Construction began on the 20,220-square-foot facility on Joint Base Charleston-Weapons Station Oct. 15, 2010, and was recently completed. The \$9.498 million data center was designed to the United States Green Building Council's Leadership in Environmental and Energy Design silver rating standard. The Navy's data center consolidation initiative will provide cost savings due to reductions in physical locations, power and data center management contracts.

## Telework Driving Demand for Remote Access

The Department of the Navy anticipates that personnel will begin teleworking in significant numbers when a new telework policy is released shortly. As a result, there will be explosive growth in the number of users who need to connect to the Navy Marine Corps Intranet and other government networks from remote locations, primarily from a home office, but also from other locations via cellular or Wi-Fi networks.

Understanding the advantages and disadvantages of the technology options available for remote access will allow commands to make more informed decisions as they plan and budget for an increasing number of teleworkers.

While a number of remote access options are available, the network capacity to deliver full desktop functionality from remote locations is limited. Exceeding this capacity could compromise the DON's mission by preventing some personnel from accessing the network entirely or limiting the functionality or level of performance they have available once connected. The new policy guidelines assume teleworkers will be working with unclassified information only.

Government furnished equipment (GFE) is strongly recommended for regular, recurring remote access. Use of GFE guarantees segregation of government information from personal devices and ensures the device meets current DON information assurance standards.

**To view more, visit:**

<http://www.doncio.navy.mil/ContentView.aspx?ID=3088>

## EYE ON IT

### How Smart Phones Could Steal PC Passwords

The sensors on smart phones can detect keystrokes on a nearby keyboard and be used to interpret the words being typed, Georgia Tech researchers say.

**Read the article here:**

<http://gcn.com/articles/2011/10/18/smart-phone-sensors-steal-keystrokes.aspx>



## DATA SPOTLIGHT

### Data Quality Principles & Best Practices

The following principles and best practices are adapted from the Data Management Association (DAMA) Data Management Book of Knowledge (DMBOK):

- Treat data and information as a valuable enterprise asset
- Set priorities for data quality
- Define data ownership and accountability
- Integrate data quality in all projects
- Verify data accuracy close to input
- Measure data quality with goals for improvement
- Know that data quality is everyone's responsibility

Follow the link to the DAMA DMBOK on the DKO EIM Portal to discover more Data Quality principles and best practices:

<https://www.us.army.mil/suite/files/23278192>

To request access, please send an e-mail to [MPTE\\_EIM@navy.mil](mailto:MPTE_EIM@navy.mil). Note: you must have an AKO/DKO account

## EXTRA BYTES

### **Analysis: Cybersecurity Puzzle is Tough to Solve**

Experts agree that a multi-dimensional approach to cybersecurity is necessary, but what does that really mean?

**Read the article here:**

<http://fcw.com/articles/2011/11/02/cybersecurity-policy-and-federal-agencies.aspx>



### **DISA Approves First Android Device for Use**

The Defense Information Systems Agency has certified its first secure mobile device running on the Android operating system.

The Dell Streak 5 smart phone / small tablet computer is the first handheld device using the Android 2.2 operating system to be certified for use in the Defense Department's secure but unclassified communications.

**Read the article here:**

<http://gcn.com/articles/2011/10/28/disa-approves-first-android-device-for-dod.aspx>

## **Navy Says New Network Will Cost \$500 Million a Year Less Than Previously Estimated**

The Navy has lowered cost projections for its Next-Generation Enterprise Network to below \$1.5 billion a year from an estimated annual \$2 billion figure provided last week at a media briefing in Washington.

The current network, the Navy Marine Corps Intranet, cost \$1 billion a year under an original 10-year contract awarded in 2000 to EDS, now HP Enterprise Services. In July 2010, the Navy awarded HP a \$3.4 billion continuity of services contract to keep NMCI in operation through 2015.

The new network "will generate savings relative to historical program spending," said Capt. Shawn Hendricks, manager of the Naval Enterprise Networks program office, which oversees NGEN.

"Historical NMCI costs, which include all NMCI contract expenses and other program

costs, are approximately \$1.5 billion per year," Hendricks said in an emailed statement. "All program office cost estimates project that spending on NGEN will be less than historical NMCI costs."

Hendricks did not provide a reason for the clarification, and the Navy has not responded to a request for further details. In March, the Government Accountability Office estimated it would cost the Navy \$2.94 billion to run NGEN in 2015, its first year of operation. GAO also put total life-cycle costs for NGEN at \$50 billion from 2015 through 2025, or \$5 billion a year.

GAO said the Navy had failed to provide a reliable analysis of alternative approaches for NGEN and the plan in place as of March could cost \$4.7 billion more than other ways to execute the program.

*\*Source: Nextgov website*

## **Ensuring Your Solicitation is Section 508 Compliant**

Since 1998, when Congress amended the Rehabilitation Act, all federal agencies, including the Department of Defense, are required to make electronic and information technology (E&IT) accessible to individuals with disabilities. The law applies to all federal agencies when they develop, procure, maintain, or use electronic and information technology.

Accessible E&IT includes technologies that allow those who are blind or visually impaired to easily obtain information on websites and participate in online training. Exceptions to compliance are identified by the Federal Acquisition Regulation (FAR), part 1194.

**To view more, visit:**

<http://www.doncio.navy.mil/ContentView.aspx?ID=3082>

## **Bi-Monthly IT Tips**

### **Create & Customize a Table of Contents in Microsoft Word**

Create a table of contents (TOC) in Word 2010. Prepare document headings so that Word will generate the TOC automatically, and customize the look and settings for the TOC.

<http://office.microsoft.com/en-us/word-help/create-and-customize-a-table-of-contents-RZ102634105.aspx?CTT=1>

### **Discover the WinZip Wizard in You With These WinZip Power Tips**

This article contains simple tips to help make you a more powerful and efficient WinZip user.

<http://kb.winzip.com/kb/entry/246/>