



2010 DEFENSE STANDARDIZATION PROGRAM AWARDS

These awards honor personnel and organizations of the military departments and defense agencies for outstanding performance in the implementation of the Defense Standardization Program. The recipients have made singular improvements in technical performance, greatly enhanced safety for DoD personnel, and avoided billions of dollars in costs.

2010 DISTINGUISHED ACHIEVEMENT AWARD WINNER

Standard Containers Get Supplies to the Warfighter Faster

A multi-service team led by the Army Armament Research, Development and Engineering Center demonstrated a Joint Modular Intermodal Container (JMIC) to enable rapid, efficient, and seamless handling and delivery of military supplies. JMIC was a component of the Joint Modular Intermodal Distribution System (JMIDS) Joint Capability Technology Demonstration. The JMIDS team also supported the development and approval of a JMIC standard, MIL-STD-3028, that establishes general design guidelines and associated tests for JMICs. The JMIC is collapsible for efficient storage, can be reassembled without tools, and is easily locked for cargo security. It is compatible with ISO containers, Palletized Load System flatracks and Containerized Roll-In/Roll-Out Platforms, 463L pallets, and the current fleet of tactical trailers and trucks. Interlocks secure JMICs to each other and, in the future, to platforms and transportation vehicles equipped with JMIC restraint systems. JMICs are already saving lives by reducing the number of convoys required to support operational units. Also, DoD is realizing significant savings, much like the commercial world did when it adapted the ISO container, due to the consolidation of supplies in a common package and the reduction of packing and dunnage materials used to secure cargo.

Team members: Douglas Chesnulovitch, Roy Smith, Jay Abernathy, John Weed, and Gary Adams

2010 DEFENSE STANDARDIZATION

ACHIEVEMENT AWARD WINNERS

Analysis Makes the Case for Consolidated Procurement of Standards and Specifications

A team from the Army Materiel Command (AMC) successfully crafted a business case for implementing a single contract—rather than 35 separate contracts—for the procurement of industry standards and specifications. In addition to a detailed cost-benefit analysis, the team advanced a command policy prohibiting the purchase of military standards and specifications from a commercial vendor if they are available through ASSIST. The team also managed the contract competition. By establishing a single contract, AMC eliminated stove-piped contracts and the financial drain of paying twice for U.S. intellectual property. More important, it cut the cost of doing business and provided true enterprise access to industry standards and specifications required by AMC production and life-cycle management missions. By providing enterprise access to industry standards and specifications, AMC realized a cost savings/cost avoidance of \$3 million per year and a per unit cost savings of \$10.4 million per year. AMC's model paves the way for extended cost savings across DoD through the standardization of the procurement of industry standards and specifications.

Team members: Tim Edwards, Gloria Miller, Paul Fritts, Barbara Bishop, and Cynthia Lee

A New Test Standard Cuts the Erosion of Rotor Blade Protective Materials

An Army-led team—with representatives from the Army Research Laboratory, Air Force Research Laboratory, U.S. Army Aviation and Missile Research, Development and Engineering Center, and the University of Dayton Research Institute—developed a test method, and the accompanying military standard, for measuring the resistance of materials used on the leading edge of helicopter rotor blades to protect them from particle or sand erosion. The test also is used for assessing the durability and reparability of these protective materials in DoD-unique environments. These materials may be in the form of inserts, leading edges, paints, overlays, coatings, or other surfacing techniques that protect the base material from its environment. This standard test measures the amount of material eroded from a stationary specimen by particles accelerated in a high-speed gas jet that replicates the velocities and impingement angles at the rotor blade tip. Implementation of the test standard will significantly increase the “time on wing” of protective systems, thereby increasing the duration between repair intervals and reducing the frequency of removal and replacement procedures—all of which are costly and labor intensive.

Team members: Richard Squillacioti, Marc Pepi, Lynne Pfladderer, David Stone, and Andrew Phelps

JCREW Systems Defeat the Global Radio-Controlled IED Threat

A Navy-led team developed a Joint Counter Radio-Controlled Improvised Explosive Device (IED) Electronic Warfare (JCREW) system of systems (SoS) that will defeat evolving radio-controlled IEDs globally, with less interference with friendly systems and significantly reduced operating costs. The SoS consists of a dismounted (manpack) system, mounted system (ground vehicle or boat), and fixed-site system (temporary/mobile, semi-permanent, and permanent). The JCREW SoS uses open architecture, with well-defined, common standards, and can be upgraded easily. The system is capable of functioning in a standalone mode (as do legacy systems) or in a networked mode. JCREW SoS networking in an operational environment will facilitate configuration management and remote loading, mission-representative command and control to achieve mutually supportive or cooperative JCREW operations. The networked JCREW SoS will also enhance interoperability and compatibility with friendly forces' systems that use the same or nearly the same portions of the electromagnetic spectrum. In short, the JCREW SoS can be employed globally throughout the operating environment, supporting U.S. force dominance over the electromagnetic spectrum to defeat radio-controlled IEDs.

Team members: Mike Craft, Keith Plumadore, Bruce Strackbein, Adam Webb, and Jim Ryan

PROGRAM AWARDS

Common Code Cuts the Cost of CAPRE Communications with Aircraft Avionics Systems

Larry Crane, with the Common Aircraft Portable Reprogramming Equipment (CAPRE) program at the Air Force Materiel Command, created an innovative approach to developing software for transferring mission-critical and other data from CAPRE to aircraft avionics systems. Now, instead of developing customized software for communicating between CAPRE and each individual aircraft avionics system, software developers can utilize a standard or common code template for all aircraft avionics systems that use a common communication structure. Mr. Crane and a small team of other CAPRE software developers came up with the concept when they found that 18 of the 29 avionics systems on the CV-22 Osprey use the same communication structure. Mr. Crane developed the software, hardware, and firmware needed to make the common code possible on existing and new hardware, saving \$2 million on the CV-22 Osprey project alone. Mr. Crane is applying the same concept to many different Navy aircraft, potentially saving the Navy \$73 million and decreasing development time.

Weapons Systems Provisioning Data and Standardization Complement Each Other

Beverly Wilson, from Defense Logistics Agency (DLA) Land and Maritime, developed and implemented a process to identify and pursue part standardization opportunities. The process includes analyzing weapons systems provisioning data collected by the Defense Logistics Information Service (DLIS) to identify parts not covered by standardization documents, link ordering data, qualify items, and, where appropriate, recommend actions to be taken to cover those items. To date, military activities have undertaken the development or revision of numerous specifications and standards documents, which will prevent the addition of at least 700 nonstandard parts in the inventory. Also, DLIS has updated technical data on 350 items, and qualifying activities have recruited new sources. The results are lower procurement costs, shorter acquisition lead-times, increased operational readiness, and a smaller logistics footprint. Moreover, these standardization actions will enhance full and open competition among the manufacturers of the parts; allow for greater interoperability among the military services; and improve the availability of the products by meeting quality, reliability, performance, and safety requirements. Savings related to this effort are on the order of \$14.5 million.

A Standardized Catalog Allows a Common Food Management System

A team from DLA Troop Support spent over 2 years developing a process to standardize and streamline subsistence line items of supply to meet the criteria and requirements of the upcoming commercial off-the-shelf Common Food Management System (CFMS), a standard, integrated ordering system for military and federal customers. A crucial element in CFMS's development was the standardization of the DLA catalog, which required reviewing nearly 110,000 food and related items. Coordinating closely with vendors and customers to ensure their agreement, the CFMS team identified more than 54,500 items to be archived or canceled due to obsolescence or duplication. The team put the remaining 53,000 items through a vigorous standardization process across all military customers, for example, to establish standard package sizes. More than halving the number of items in the catalog will reduce the yearly inventory maintenance costs by over \$81.5 million. Cost avoidance is expected to exceed \$1.5 billion, due to reductions in overstocking, incorrect orders, receipt adjustments, faulty deliveries, and so on. Moreover, CFMS's standardized catalog will improve inventory management, item sustainability, and interoperability.

Team members: Catherine Capriotti, Carolyn Dempsey, John Robinson, Scott Koch, Jeffrey Nienstedt, and Carol Willey

THE DEFENSE STANDARDIZATION PROGRAM



PURPOSE

We champion standardization throughout the Department of Defense to reduce costs and improve operational effectiveness.

MISSION

We identify, influence, develop, manage, and provide access to standardization processes, products, and services for warfighters, the acquisition community, and the logistics community to promote interoperability, reduce total ownership cost, and sustain readiness.

VISION

The Defense Standardization Program is a comprehensive, integrated standardization program linking Department of Defense acquisition, operational, sustainment, and related military and civil communities. It is universally recognized for advancing the Department of Defense's joint interoperability, acquisition, and sustainment goals.

"Standardization is about finding common solutions for common problems and sharing them across programs. It can be a great challenge."

Gregory E. Saunders
Director, Defense Standardization Program