THE LINK

SPRING 2013

Commander describes CECOM as The Critical Link.

Official Publication of the U.S. Army Communications - Electronics Command

CECOM, THE CRITICAL LINK

"Tobyhanna Army Depot provides exceptional support, as usual. Constructive communication and close collaboration has enabled Tobyhanna and Logistics Innovation Agency to identify and evaluate new and existing capabilities and solutions that have high potential cross-platform and Joint applications."

~Ed Scicluna, Project Leader, U.S. LIA, Fort Belvoir, Va., regarding exploration into innovative solutions for Army logistics.

"From my viewpoint, Tobyhanna has been extremely helpful in my Standard Integrated Command Post System Fielding and Reset Program. Depot personnel have supplied information, assisted with equipment issues and provided training. Tobyhanna has exceeded my expectations on many occasions, and has gone above and beyond in assisting me with various resourcing issues."

~ Capt. Jonathan Malabre, 3rd Battalion, 41 Infantry Regiment, 1st Armored Division, Fort Bliss, Texas.

to providing 1st class C4ISR support

"[CECOM] FSR [field service representative] team is very knowledgeable and always available. Once contact was made they made an effort to keep me informed on all issues. It was a very successful exercise with the team on the ground."

~CWO Timothy Metcalf, Headquarters and Headquarters Battalion, 28th Infantry Division, Grove City, Pa.

CECOM Commanding General
Maj. Gen. Robert S. Ferrell

Chief, Public Affairs
Robert DiMichele

Editor-in-Chief
Andricka Thomas

Editorial Advisor
Marissa Anderson

Designer
Solari Creative, Inc.

Address
U.S. Army Communications-Electronics Command
Public Affairs Office
6002 Combat Drive
Floor 1, Room D1-310A
Aberdeen Proving Ground, MD 21005

CONTENTS

On the Cover

Electronics Mechanic Jerry Space (center left) and Electronics Worker Eric Shager (center right) remove and replace a power supply on the AN/TPS-59(V)3 radar in Tobyhanna Army Depot's radome while Bill Ambrose (left) looks on. They are assigned to the depot's Tactical Air Defense Systems Branch. (Photo by Steve Grzezdzinski)

Commander describes CECOM as the Critical Link to C4ISR support readiness

By Maj. Gen. Robert S. Ferrell

Challenges, Opportunities and Change: These are the words that best describe the environment our Army and our great CECOM Team currently confront. Whether it's supporting our deployed forces in Afghanistan; executing the retrograde and reset of our C4ISR equipment from theater; streamlining and optimizing the sustainment operations of our global command; or adjusting to reduced funding and resources – every part of our CECOM mission and organization is adapting to meet the requirements of a new era. Change on a scale like this is both exciting and complex.

On the one hand, our CECOM Team has a 'once in a generation' opportunity to help build and sustain the C4ISR mission that will support the increasingly networked Army of 2020 and beyond. On the other hand, we will need to help build the force of tomorrow in an environment of constrained budgets and where the solutions that worked in the past may not work in the future. We will need to look at every aspect of our organization and develop bold, innovative responses to the challenges we face. We will also need to constructively question the assumptions that underlie many of our current policies and processes. The one thing we can be certain of is that maintaining the status quo, or conducting 'business as usual' will not prepare us for a very different future.

Fortunately, CECOM has an incredibly skilled, talented and experienced workforce that has proven – time and again – its ability to adapt and overcome even the toughest challenges. From our most senior leaders, to our newest team members, we will need the energy, intellect and creativity of each and every CECOM Soldier and Army Civilian to set conditions for our future success.

To guide us through the challenges, opportunities and changes we now confront, CECOM has published a new Campaign Plan that reflects our vision to be the joint warfighter's life-cycle provider of choice by sustaining world-class, globally-networked C4ISR systems. Just as importantly, our Campaign Plan highlights CECOM's defining role as the 'Critical Link' that connects the full range of today's advanced C4ISR capabilities with the Soldier on the battlefield.

To better fulfill this role as the 'Critical Link' and to help our Command prepare for a new era, our Campaign Plan further identifies a number of key initiatives we will undertake, to include:

- Streamlining our field support strategy to provide our operational commanders a – 'one-stop-shop' for all their CECOM support.
- Developing life-cycle sustainment for the Army Network while integrating the latest technology advancements.
- Applying lean processes for our software sustainment model that improve business practices while reducing total life-cycle costs.
- Working with the Army Staff and AMC, to replace legacy IT systems by eliminating obsolete equipment.
- And… cost effectively modernizing IT infrastructure at our camps, posts and stations.

Simply put, our new Campaign Plan will allow CECOM to truly become the 'Critical Link' that drives the global readiness of our Army and Joint Force's complex, networked C4ISR capabilities. The Campaign Plan is available on our public homepage at http://cecom.army.mil/, and I encourage all of our CECOM team members to take time to read it. It is important for each of us to understand our command's new direction - as we chart the course for the Army of 2020 and beyond.

Despite the many challenges we confront, there is one thing that will never change – our commitment to doing all we can to develop and support our workforce. The future success of our command will always rely on the more than 8,000 tremendous CECOM Team members whose hard work and dedication drives C4ISR readiness worldwide, ensuring that CECOM truly is **'The Critical Link.'**

THE CRITICAL LINK

ARMY SOLDIER'S CREED

I am an American Soldier.

I am a Warrior and a member of a team. I serve the people of the United States and live the Army Values.

I will always place the mission first.

I will never accept defeat.

I will never quit.

I will never leave a fallen comrade.

I am disciplined, physically and mentally tough, trained and proficient in my warrior tasks and drills. I always maintain my arms, my equipment and myself.

I am an expert and I am a professional.

I stand ready to deploy, engage, and destroy the enemies of the United States of America in close combat.

I am a guardian of freedom and the American way of life.

I am an American Soldier.

ARMY CIVILIAN CORPS CREED

I am an Army Civilian—a member of the Army team.

I am dedicated to our Army, our Soldiers and civilians.

I will always support the mission.

I provide stability and continuity during war and peace.

I support and defend the Constitution of the United States and consider it an honor to serve our nation and our Army.

I live the Army values of loyalty, duty, respect, selfless service, honor, integrity, and personal courage.

I am an Army Civilian.

CSM ViewPoint

CECOM-FWD and the Total Force

By Command Sgt. Maj. Kennis J. Dent, CECOM CSM

We're faced with interesting times as the Army transitions to sustainment after being focused on overseas contingency operations for the past 11 years.

We're adjusting to achieving our goals using less fiscal resources than before. We're identifying ways to improve our processes and expand the synergy between CECOM, our partners and our customers. And we're focused on developing leaders within CECOM to guide the command in meeting the needs of our Combatant Commands and deliver optimal C4ISR support to the Army of the Future.

As the Army continually takes prudent measures to reduce spending without sacrificing critical operational capabilities, it's the work our CECOM personnel are executing now that will position the command for success in the long run.

We're streamlining our field support entities so that CECOM establishes a regional presence offering the full-spectrum of C4ISR support in one place. Our CECOM centers and commands supply field service experts, representing CECOM's Forward presence at home and abroad.

CECOM's Total Force—military and civilian—work together each day to support the Army's current and future operational needs. As our Soldiers return home to spend time with their families, our team of dedicated CECOM personnel have taken the lead in performing one of the largest and most vital missions we've had since our troops redeployed – redeployment retrograde operations and resetting our forces while remaining responsive and agile to meet the ever-changing needs of our Combatant Command customers.

In the near term, the Army Chief of Staff names four areas on which he is strategically focused on as he ushers the Army's transition to sustainment and withdrawal from theater operations:

- Committing to the current fight through its successful termination.
- Downsizing the force.
- Adapting to the new security environment.
- Meeting the requirements of the nation's new defense strategy.

And to support those objectives, we must continue to leverage the capabilities of the CECOM's Total Force to increase CECOM Forward's rotational presence abroad where our personnel conduct retrograde operations. As we seek success, we must capitalize on the expertise and synergy our military and civilians bring to the mission as our Soldiers redeploy and equipment returns stateside.

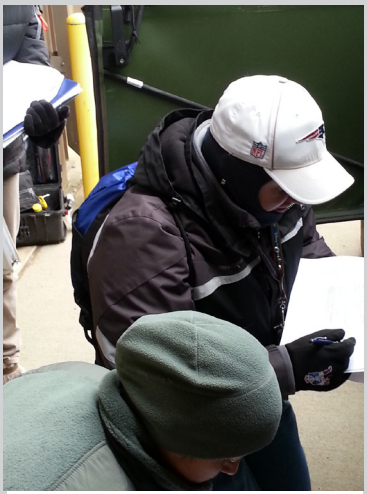
As we plan for the Army of the Future, we are realigning our field support efforts to provide services based on a regional support structure, rather than the embedded model we used in the past. This regional alignment will enable CECOM Forward to provide the gamut of software and logistics reset services in one station, providing one-stop-shop for CECOM services. Army Total Force organizations and capabilities, like our CECOM Forward stations, enable responsive, support while adapting and operating in this new fiscally constrained environment.

And we couldn't do it without our CECOM team of experts. That's why CECOM is **'The Critical Link'** in driving C4ISR support services worldwide.

Faces *to the* Field

CECOM provides sustainment training to Army platoon

Story and photos by Corey Nilsson, LRC



As the Army continues to transition to peacetime operations, sustaining the force and maintaining readiness is among the Army's top priorities, and the U.S. Army Communications-Electronics Command's mission of reset, maintenance and sustainment of communications-electronics systems will aid in that transition.

This past January, the CECOM Logistics and Readiness Center, in conjunction with contractor support, completed RESET operations and conducted training on the Air Traffic Navigation Integration and Communication System, ATNAVICS, at Fort Campbell, Ky.

ATNAVICS is a highly mobile air traffic control system that provides airport surveillance radar, precision approach radar and secondary surveillance radar capabilities to Air Traffic Service units.

> CECOM personnel went out of their way to deliver their services at little to no cost to my unit. CECOM made my unit a priority and for that I'm grateful.
>
> *~Chief Warrant Officer Domingo A. Sanchez*

"The training was very beneficial to all Air Traffic Controller and military maintainers who attended," said Chief Warrant Officer Domingo A. Sanchez, brigade air traffic and airspace management tech who has worked closely with CECOM in the past.

CECOM logisticians, in conjunction with contract support, conducted on-site refresher training for the Soldiers of the F Company, 7-101st Aviation Brigade, some of whom were only trained on the ATNAVICS during their Advanced Individual Training.

The training covered the setup and technical aspects of the technology; such as techniques on obtaining data for several key measurements like runway length, touchdown points and roll-out distances, explained Leslie Malone, CECOM integrated logistics support manager.

As dollars become scarce, personnel continue to turnover, and as the Army shifts from reset to sustainment operations, refresher training classes like this one will prove useful, Malone explained. He stressed the importance of sustainment training for Soldiers as we approach an environment of less.

CECOM works hand-in-hand with its program manager counterparts to ensure upgrades, Engineering Change Proposals and Modification Work Orders were planned for and completed as needed, said Malone. PMs were able to fund the necessary upgrades for incorporation during or immediately after reset using Other Procurement, Army funds. PMs work with CECOM integrated logistics personnel to schedule and execute the mission to meet Army Force Generation requirements. This process extended system life without performing cyclical overhaul.

Now, as the Army gets 'back to basics,' program managers will need to perform cyclical overhaul activities as part of the life-cycle maintenance strategy to meet Army Force Generation requirements and maintain system readiness objectives, Malone explained.

CECOM is restructuring how they deliver sustainment services to support peacetime operations. The command is adjusting their field support strategy to be more regionally aligned, rather than embedded.

"Our global footprint will be reassessed and aligned to better support Combatant commanders," said Maj. Gen. Robert. S. Ferrell, CECOM commander. Proper planning and accurate demand forecasts will be imperative as funding streams are modified. Soldier proficiency and system readiness will be critical factors as the Army enters a sustainment operational environment, Malone explained.

"I would definitely recommend CECOM's services," said Sanchez. "They were not only helpful, but very knowledgeable. In one instance, CECOM personnel went out of their way to deliver their services at little to no cost to my unit. CECOM made my unit a priority and for that I'm grateful."

Did you know?

The recently stood up Retro-Sort yards, in Kandahar and Bagram, Afghanistan, were each manned with a CECOM LRC Draw Down Special Projects Office team member, Jan. 27, 2013, to assist in the identification of CECOM-managed items. To date, a combined total of 963 items with a dollar value of $3,926,891 have been identified and processed through these yards.

A commentary...

ISEC Commander reflects on the command's engineering and implementation mission

By Col. Kris Kramarich, ISEC

In 2008, as the 44th Expeditionary Signal Battalion Commander, during a 15-month deployment in support of Operation Iraqi Freedom, we had 44 sites with Soldiers deployed across a 10,000 square-mile area of operation, and because of the sheer size of the area of operation, nearly every major operation "as seen on TV" had one of our command post node teams on-site in a supporting role. I couldn't say anything about it for operational security reasons, but we watched with anticipation as events unfolded. I thought as I departed that assignment that I would never again be in a unit or position with that level of strategic relevance or impact… until now.

Upon my arrival to ISEC in 2010, it became quickly apparent that ISEC supports or enables projects, although not nationally televised, for many enterprise information technology initiatives. I can see ISEC's behind-the-scenes role in nearly every senior leader information technology briefing, not only within the Army but at the Department of Defense level.

Through ISEC's support to the Army Cyber Command's Network Enterprise Command and Army Intelligence and Security Command; and Program Executive Office Enterprise Information Systems' Program Manager Defense Communications and Army Transmission Systems, DCATS, and PM Installation Information Infrastructure-Communications and Capabilities, I3C2; ISEC's area of operation exceeds 10,000 square-miles as our global footprint spans the Armed Services.

We supported a plethora of global enterprise initiatives like Army Data Center Consolidation; Host-Based Security System; Installation Information Infrastructure Modernization, Modernization of Earth Terminals; Korea Transformation/Yongsan Relocation Project, and a myriad of other Army and DoD projects.

ISEC has supported the audio-visual capability engineering and implementation, Military Construction-Army IT support; Unified Capabilities testing; and support to Joint Special Operations Command; African Command; Southern Command; and the Defense Medical Agency, comprising ISEC's global area of operation and strategic influence on the Army's IT infrastructure.

Nearly every ISEC employee can see the tangible benefits of their work to the DoD at large. The ability to inform greater DoD enterprise IT initiatives lies resident in the concentration of IT engineering professionals in ISEC. In this command I don't have to be silent about the mission for security reasons. On the contrary, this vantage point affords ISEC leaders at every level the opportunity and responsibility to identify synchronization opportunities to senior leaders in concert with our supported customers.

ISEC provides The Critical Link to IT systems engineering, infrastructure, integration and enterprise data consolidation efforts in support of DoD and our nation's Army.

Col. Kramarich has commanded the U.S. Army Information Systems Engineering Command since August 2011.

ISEC quick-react support resolves communications issues at SATCOM facility

By Marissa Anderson, CECOM

In a span of just four days, U.S. Army Information System Engineering Command engineers provided quick reaction support and resolution of communication issues this winter that occurred at the Camp Roberts Enterprise Satellite Communications facility in California.

The Camp Roberts Enterprise SATCOM facility is the main U.S. Army communications facility on the west coast. It provides worldwide joint voice, data, command and control, and imagery communications services between the National Command Authority and deployed military units across the continental United States and the Pacific Rim. This facility supports a variety of users in their communication needs to include the Missile Defense Agency, the Joint Services, intelligence organizations, and diplomatic communities. The Camp Roberts Enterprise SATCOM facility is operated and maintained by the 21st Signal Brigade's 302nd Signal Battalion.

The Defense Information Systems Agency, the 21st Signal Brigade, and Program Manager Defense Communications and Army Transmission Systems requested ISEC's onsite support at Camp Roberts to find and fix the cause of the problems, explained Robert Lorentsen, ISEC Transmission Systems Director. Within 24 hours, ISEC deployed engineers Brad O 'Berry and Ian Keen onsite to begin the trouble shooting effort.

The outages were caused by circuit failures in the Multiplexer Integrated Defense Communications Satellite Subsystem Automation System, or MIDAS. Intermittent data errors on all the circuits passing through it were creating an unacceptable level of degraded performance and reduced availability, explained O 'Berry.

Chief Warrant Officer 3 Ian Wilkinson, site chief at the Camp Roberts Enterprise SATCOM facility, spoke highly of ISEC's efforts to resolve the issues.

"… [ISEC] provided outstanding service and support to the SATCOM facility located at Camp Roberts. [ISEC] led the successful repair of a failing MIDAS by replacing faulty equipment and implementing several viable solutions which ultimately restored optimal communications provided to numerous supported users and organizations."

The technical problems identified and fixed included parts affecting interoperability, corrupted program software, and a failed power supply. According to Lorentsen, MIDAS mission capability was fully restored and back to normal operations by Jan. 21, making the total response time four days from start to finish.

ISEC Engineer Brad O'Berry performs a systems check of a MIDAS processor card in the ISEC SATCOM Prototype Facility. This facility allows ISEC engineers to validate troubleshooting and test procedures such as those performed during the quick-react Camp Roberts mission. ISEC photo

Short-Notice/Quick React Technical Assist missions are not uncommon for members of the ISEC team.

Lorentsen said, "We are the '9-1-1' of communication transport systems problems for many of our customers. Our engineers and technicians are always ready for these 'must fix now' missions, whether it is to Camp Roberts, CA or Kandahar, Afghanistan."

Though these missions can be far from home and executed in a high stress environment of time and difficulty, job satisfaction and morale is high.

Upon O 'Berry's, return from this mission he said, "This was an interesting challenge because, as it turned out, there were multiple problems with the system which demanded a very systematic troubleshooting approach. In the end, finding and fixing each problem was very rewarding. I enjoyed the opportunity to help out."

CECOM FIRST RESPONDERS PROVIDE POST PRODUCTION SOFTWARE FIELD SUPPORT

By Marissa Anderson, CECOM

When the software for C4ISR systems need a life line in the field, the Communications-Electronics Command's Software Engineering Center provides the technical assistance needed to resolve issues and provide support.

"I would look at us like 'first responders'," said Medhat Abuhantash, director of SEC's Enterprise Services Mission Area. "We are firefighters. We are right there on the ground supporting and providing for the care and feed of those systems. As the issues arise, CECOM SEC Field Support Engineers are the first people to respond."

"The SEC provides regionalized post production software support in direct support to the CECOM Senior Command Representative in all the Army Field Support Brigades," explained Abuhantash. "These systems provide interoperable capabilities for combatant command customers to transmit and communicate information across the C4ISR community in garrison and in the field. SEC provides on-site software installation and upgrades, trouble shooting assistance, and reach-back capabilities to subject matter experts in other areas," said Abuhantash.

The immediate support is vital to sustaining the operational readiness of C4ISR systems. Abuhantash stressed the necessity of the service CECOM SEC supplies. "…we provide the critical link between the systems in the field to the software laboratories in the rear. If it's a problem that we cannot fix through on-site support, we reach back to our regional assets for trouble shooting and diagnosis. If the issue remains, then it is sent to the software labs for detailed analysis and evaluation in a controlled environment. CECOM SEC provides a tiered support structure of on-site FSEs, regional support, and our software labs to provide soldiers with superior field support service."

Software problems that users generally encounter in the field are very similar to those experienced by the typical user in the workplace. As Charles


SEC photo


SEC photo

Cantrell, Field Support Directorate director, explains, "Everything is networked. Issues may arise with the network or between the systems exchanging data. It may not be evident to the operator where to start looking for a fix to the issue encountered."

Resolving a software problem in the field presents unique challenges. According to Abuhantash, "software has to be diagnosed and treated in the operational environment not physically evacuated to a controlled environment. The identified software problem does not necessarily 'break' the system; however, it may temporarily decrease the operational readiness. By not taking the system out of the operational environment we minimize and reduce unit readiness downtime for the soldier."

Cantrell added, "The issue may involve a lack of familiarity with additional capabilities of a system or new applications that were installed or upgraded. One aspect of the 'first responder' support that SEC delivers is a reach back capability to a worldwide team of subject matter expert colleagues. When users have a system issue or question in the field and require assistance, they are able to call or email the expert who is located in a different geographic region. This is an immediate benefit to the soldier. Depending on the severity of the problem, the subject matter expert may be able to assist the user to resolve the issue without having to be deployed to the site." Currently, the capability to solve software problems remotely is very limited due to various security firewalls.

The constrained fiscal environment that the Army is currently operating under has required SEC to re-examine how it provides field support services. Cantrell stressed that looking for efficiencies in providing support to the field will result in a reduction in the SEC field support footprint. He explained that in the past, FSEs were embedded providing support to a specific unit. Today the support is regionalized requiring the FSE to support several units located within a geographical region, reducing overall field support cost.

SEC in coordination with other CECOM organizations is developing efficiency initiatives to "right size" the field support. In addition to looking at cross-training field support engineers to be multi-functional support several systems as opposed to a single system. The Army is also looking at "Back to Basics" in order to better train soldiers in the operations of their particular systems in order to reduce the number of problems requiring FSE support; which will also reduce cost. To align with CECOM's initiatives regarding efficiencies, SEC will be reducing the number of personnel providing support while not sacrificing readiness. "We will be reducing the field support footprint in anticipation of changes in Army support requirements and the new fiscal environment, the new norm," said Abuhantash.

Cantrell also stated that the focus going forward will be on how to right size the support without impeding or hindering the operational effectiveness of war fighting units and to continue to support contingency operations as they arise.

CECOM 'JUMPS' to support military and civil authorities

By Jim Hayes, SEC


U.S. Army photo

Joint Unified Multi-capable Protection System provides situational awareness and delivers command and control capability

In 2009, the Department of the Army released a posture statement making a commitment to provide defense support to civil authorities across the nation when needed.

Originally designed to provide an effective solution to monitor maritime traffic, the Software Engineering Center's Joint Unified Multi-Capable Protection System, or JUMPS, has proven itself to be versatile in supporting multiple roles and for a variety of military and civilian capacities, according to Kenneth Caswell, technical lead for the program.

"JUMPS provides a deployable strategic and tactical command and control system to conduct joint, interagency and coalition coordination in support of harbor defense, maritime critical infrastructure protection, high value asset defense, anti-piracy operations and related littoral activities," Caswell explained. "Its architecture provides the flexibility allowing sensors to be moved, reconfigured and upgraded as dictated by mission requirements without minimizing overall system performance."

The JUMPS program consists of a comprehensive set of capabilities that includes a suite of sensors, software and workstations providing command, control, communications, computers, intelligence, surveillance and reconnaissance situational awareness for threat detection and emergency response in the maritime domain.

"Its design leverages existing best of breed government-off-the-shelf and commercial-off-the-shelf sensors and communications products to provide a cost-effective solution for applications inside and outside the continental U.S.," said Caswell.

In 2009, SEC established an Operational Lab for Research, Integration and Testing at the Applied Communications Information Network, ACIN, facility in Camden, N.J. SEC deployed remote sensor sites along the Delaware River that have observed, recorded and stored 3000 unique vessels in the off-site Data Center.

Throughout the years, the JUMPS project has assisted various agencies with security, U.S. Coast Guard hoax calls, river accident information, demonstrations, Army Programs of Record, OCONUS support and hazardous material cleanup.

Security and Border Protection
SEC deployed multiple camera sensors, Automated Identification System and radar for area security in support of USCG and State Police to monitor July 4th celebrations from 2009 to 2011. SEC also supported loading of the 10th Mountain Division on United States Navy Ship Soderman by providing real-time surveillance in the Port of Philadelphia with two camera nodes and an AIS system that were web accessible.

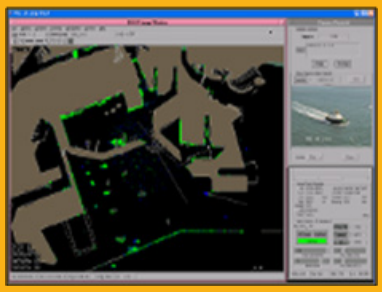
USCG Hoax Calls
SEC assisted the USCG and Federal Communications Commission in finding a hoax caller in the San Diego, Calif., area in 2011. A JUMPS capability, a personal computer-based Geo-location System deployed in the San Diego area since 2000, was used to geo-locate a missing San Diego man being prosecuted for allegedly sending false distress signals to the Coast Guard four times over the past four years.

Duck Boat Accident
Philadelphia U. S. Coast Guard and National Transportation Safety Board accident investigators used the system's video, automatic identification system and radar as resources in the official investigation into an accident involving a barge striking and sinking a duck boat tourist vessel on the Delaware River. SEC allowed the Philadelphia USCG access to the JUMPS web portal to monitor the rescue operation that ensued after the accident.

Demonstrations
SEC demonstrated JUMPS on numerous occasions, including the Maritime Domain Awareness Demo at Patuxent River in 2009 to evaluate electronics, communications, cameras and AIS sensors for MDA missions using wireless communications for remote access; and in 2010 at Joint Task Force – North's Operation Green Flash in San Diego, where SEC deployed electronics, communications and AIS sensors to detect and interdict illegal human and drug trafficking. The capabilities allowed the users to narrow down their search for "Panga" boats used by the smugglers because these boats did not have radar on board.

Port of Philadelphia Surveillance
Last September, SEC has been engaged by its Navy partner, Space and Naval Warfare Systems Command, to JUMPS acquisition, technical and program management support for a Customs and Border Protection maritime protection project. SEC will utilize not only its acquisition strategies, but also leverage its technical expertise from developing, operating and integrating proven sensor and communication capabilities in the JUMPS Lab and various JUMPS field deployments in areas with little or no supporting infrastructure to provide surveillance and protection of our U.S., borders and waterways. The first in what is expected to be a series of projects will be to conduct site surveys, and engineer, procure, integrate and test a communications network to install and link various sensors along one of the Great Lakes. The JUMPS capabilities will provide Customs and Border Protection operators with situational awareness for persistent border and littoral monitoring, as well as critical infrastructure protection.

For example, at the request of Rep. Bill Shuster (R-Pa.), SEC presented an overview and demonstration in January 2012 on how JUMPS provides real-time border security and situational awareness on land and at sea. Shuster, a member of the House Armed Services Committee, requested information about JUMPS capabilities and support to Homeland Security and other homeland scenarios. Shuster was also briefed about JUMPS foreign military sales with Azerbaijan and expressed interest in using JUMPS as a possible railroad security solution for the Department of Transportation.



JUMPS sensor at the refinery

"Thank-you guys for the superb work - it is awesome and is of great benefit to us," said NTSB Representative Gary Helmer.

Army Programs of Record
SEC generated a training manual/material for the Radio Display Operator's Position system. These documents were essential in training personnel from the Harbormaster Command and Control Center on system use. Because of this forward thinking, U.S. Army Program Manager Command Posts Systems and Integration funded SEC to participate on the Integrated Project Team providing systems engineering and training expertise from design to fielding and conduct RDOP Training for eight Harbormaster Active and Reserve Units.

Outside Continental United States, OCONUS, Support
In 2011, SEC supported Program Executive Office for Command, Control and Communications - Tactical Special Project Office and SPAWAR San Diego on an effort with the European Command to perform systems engineering, facilities upgrades, sensor and communications network installation, and training that provided the Azerbaijan Navy with upgraded security capabilities for the Caspian Sea. SEC coordinated the relocation of all JUMPS equipment installed previously at the Command and Control Center to an interim location while preserving its operability and sustainability. SEC also designed, tested and installed a wireless network comprised of phones at more than 34 locations; a paging system and very high frequency radio integration with associated training for both the Azerbaijan Navy and Air Force.

Hazardous Material Cleanup
SEC provided assistance to the USCG/NTSB monitoring an oil spill in April of 2012 at the Paulsboro, New Jersey refinery and for the December 2012 train derailment and subsequent vinyl chloride leak in Paulsboro, N.J.

For the Paulsboro Refinery oil spill SEC provided a remote site to monitor an emergency containment area holding approximately 157,000 barrels (6.6 million gallons) of spilled oil, giving them 24/7 coverage due to its renewable energy capability, said Caswell. Since JUMPS remote sensor node's GPS, weather, AIS and camera sensors are powered by a windmill and solar panels, it allowed safe positioning close to the containment area for effective monitoring. SEC reconfigured the remote site to provide the video stream directly to the USCG/NTSB command center collocated with the refinery's command center.

JUMPS is yet another example of CECOM SEC's continual dedication to produce high quality, innovative, cost-effective solutions supporting our national security at home and abroad, said Caswell.

INFORMATION

Protecting It Here Makes Them Safer There

Defense Security Service Academy - http://dssa.dss.mil

Suspect Insider Threat? Contact Your Facility Security Officer


John Nemeth


John Nemeth

(left) John Nemeth shows Iraqi officers how to operate instructor and student software for a depot-installed language laboratory. The officers are with the Iraqi Air Force's English Language Training Program. Nemeth, an electronics technician in the Command, Control and Computers/Avionics Directorate's Computer Service and Repair Branch, was part of a depot team that installed two language labs in Iraq.

(right) The language lab includes modular work stations equipped with state-of-the-art language learning software.

Depot connects the world with language labs

By Justin Eimers, TYAD

Highly skilled Tobyhanna Army Depot specialists trek through some of the globe's most extreme environments to provide the means for foreign military forces to learn the English language. Enduring challenging working conditions in places like Burundi, Mozambique, Sri Lanka and Vietnam, these expeditionary volunteers install labs that overcome the language barrier so foreign military can work effectively with U.S. forces abroad.

The 10-year-old language lab program has sent depot employees to more than 70 countries to install state-of-the-art computerized classrooms designed to teach English. Recently, a two-man team traveled to Tripoli, Libya. The Africa Command, AFRICOM, install gave Training Instructor Javier Garcia valuable knowledge and experience.

"I have only been with the program for a few months, but in that short amount of time I have seen firsthand how vital it is in forging positive relationships with other countries," he said. Garcia works in Tobyhanna's Field Logistics Support, or FLS, Directorate and was part of the team that installed Audio Active Language Labs in Libya. "It is a great example of how CECOM and its depot are supporting our warfighting commanders."

The CECOM-managed program includes both worldwide travel as well as the integration of the labs at Tobyhanna prior to fielding. Once funding, program requirements and schedules are in place, Tobyhanna personnel fabricated the labs; computers are assembled at the depot using specific commercial-off-the-shelf hardware, software is loaded and thoroughly tested to meet quality standards, then the systems are shipped to the customer. If an install is requested, depot employees travel to the country, complete the installation and instruct users on how the lab functions.

"The program is getting larger and receiving more recognition," said Stephen Pesta, training instructor in

the FLS Directorate's Readiness Training Division. "When it first started, it was very much under the radar. Now that the system's name is out there and (foreign) forces have seen the work we do and how we do it, more and more language labs are being assembled and installed. It's truly been a great and rewarding experience."

Pesta has been a part of the language lab program since it first started at the depot and was also part of the team that traveled to Libya in December.

Countries must request language lab equipment through the U.S. State Department. The State Department then works through CECOM and the Security Cooperation Education Training Working Group to determine how many labs and work stations are needed. Then, once funding is passed through the Security Assistance Training Field Activity to CECOM, Tobyhanna orders the materials needed to meet the request.

Instructors here have also developed a training program that provides users and local personnel effective teaching, maintenance and basic troubleshooting techniques. The program even offers customer support via e-mail or phone.

"Language training helps foreign troops support our forces in joint missions around the world by providing a common language," said Electronics Technician John Nemeth. "It's Tobyhanna's job to make it happen."

George Bellas, director of C3/Avionics, says the depot's constant support has made the program successful.

"We support the foreign nations from cradle to grave," he said. "If a lab breaks or the customer requests an upgrade, we schedule a return mission to meet their needs and keep improving our skills, processes and response time."

Since the program's inception, the depot has delivered 297 systems and completed 178 installations in 71 nations.

"We have received numerous positive surveys following installations that serve as a testament to the quality service the depot provides with this program," said Electronics Technician Donna Phillips. Phillips is the depot's main point of contact for the language lab program and helps coordinate fabrication schedules, shipments and installations. She works in the Production Engineering Directorate's C3/Avionics Engineering Branch.

In addition to audio labs, Tobyhanna also provides support for Training Multimedia Language Labs and Language Learning Resource Centers which are used for independent learning including group projects, studying and improving writing skills.

Did you know?

Tobyhanna Army Depot personnel have completed more than 1,400 Reset and retrofit missions for the AN/TRC-190 Capacity Line of Sight Radio Terminals since the program began in 2007. The AN/TRC-190s are used by the Army. The Reset effort for CECOM's Logistics and Readiness Center's Command, Control and Communications-Tactical Directorate and a retrofit in conjunction with the overhaul effort for Project Manager Warfighter Information Network-Tactical.

THE CRITICAL LINK

U.S. Army Communications-Electronics Command

CENTRAL TECHNICAL SUPPORT FACILITY | LOGISTICS AND READINESS CENTER | SOFTWARE ENGINEERING CENTER | TOBYHANNA ARMY DEPOT | U.S. ARMY INFORMATION SYSTEMS ENGINEERING COMMAND

CECOM MISSION

Develop, provide, integrate, and sustain the logistics and readiness of C4ISR systems and mission command capabilities for the joint, interagency, and multi-national forces worldwide.

CECOM VISION

Life-cycle provider of choice for supporting joint warfighting superiority through world-class globally networked C4ISR systems.

CECOM CORE FUNCTIONS

Depot Level Manufacturing, Repair and Overhaul

Field Support

Foreign Military Assistance

Interoperability Certification

Logistics, Sustainment Planning and Execution

Software Sustainment

Supply Chain Management

IT Systems Engineering and Integration

U.S.ARMY

DEVELOP | PROVIDE | INTEGRATE | SUSTAIN cecom.army.mil

People

Employee's heroic actions earn praise

By Justin Eimers, TYAD

Quick-thinking Nathan Trolio earned a Civilian Award for Humanitarian Services.

A production controller from Tobyhanna Army Depot received a humanitarian service award for his quick thinking and life-saving actions in a critical situation.

Nathan Trolio was honored with a Civilian Award for Humanitarian Service after he assisted in saving the life of a race fan struck by lightning at Pocono Raceway in August. Trolio attended the Pennsylvania 400 with his wife, brother and parents, and took shelter in his car when he witnessed a lightning strike that killed one man and injured nine others.

Without hesitation, Trolio ran out of his car to attend to one of the victims and immediately began administering CPR to the unconscious man.

"The award recognizes Trolio's willingness to help a complete stranger with little regard for his own safety," said Jody Oustrich, chief of the Systems Integration and Support Directorate. Oustrich submitted the award nomination to commend Trolio for his heroic act.

Trolio is grateful for being recognized and thankful he was in the right place at the right time.

"The award means a lot to me," he said. "I always do whatever I can to help someone regardless of the situation. I'm proud of what I did and honored to be awarded for my actions."

CECOM Commanding General Maj. Gen. Robert S. Ferrell presented the award to Trolio during a ceremony last week. Maj. Gen. Ferrell praised Trolio for his heroic actions.

"Mr. Trolio's courage and selfless service are highly commendable and reflect positively upon him, Tobyhanna Army Depot, this Command and the United States Army," said Ferrell.

CTSF test cell GLEAM team works to boost work, community morale

By David G. Landmann, CTSF

The springtime wind in Texas is never calm, and today it's not making life easy for the Central Technical Support Facility's three-woman GLEAM Team and a handful of volunteers.

The GLEAM group is attempting to put green vinyl tablecloths on eight long tables they've set up on the CTSF's outdoor test pad for a St. Patrick's Day-themed luncheon, as the wind is attempts to send the green plastic sheets sailing across the street toward a motor pool full of Abrams tanks.

The GLEAM team, with the help of some hastily-improvised weights and tie-downs, eventually wins the war against the wind. But then the CTSF's Test Cell GLEAM Team has been winning the morale sustainment battle in the Test Cell since March of 2011.

GLEAM, according to GLEAM Team Chair Valerie Meverden, stands for Gifts, Laudatory, Essentials, and Morale. The acronym was arrived at in March 2011, when Meverden, and the two other primary members of the team, Julie Bridges and Donna Bryant, were charged with the task of boosting and maintaining the morale of the officers, operators, and technicians in the CTSF's test cell.

"(Test Director) Madeline (Wright) was concerned about the morale of the Test Team, and she wanted us to provide support for the morale of the people in the test cell. So she required us to do that," Meverden said.

Meverden's "us" – the GLEAM Team -- includes herself, a senior ORSA, and a 14-year veteran of the CTSF; Julie Bridges, a data manager, with 13 years at the facility, and Donna Bryant, a computer scientist/analyst, an eight-year CTSF veteran.


CTSF photo

Central Technical Support Facility, GLEAM Team member Donna Bryant, right, arranges pizza selections for a recent GLEAM Team-sponsored Test Cellmlunch. Her teammate Julie Bridges can be seen working behind here.

Julie Bridges; Valerie Meverden; and Donna Bryant

The team decided to execute the task given them in several ways.

First, they decided that staging holiday-themed luncheons for their fellow testers, might be a good idea, especially if door prizes and employee recognition awards were to be handed out during those events. As a result the team has produced Fourth of July, Halloween, Thanksgiving, and Christmas luncheons, some catered, and some pot luck.

The GLEAM Team also manages to recognize major events – birthdays, weddings, the birth of children, the deaths of family members – with the appropriate cake, cards, gifts, or floral remembrances.

“These things helped to bring the Test Cell together,” Bryant commented.

She recounted the effect the gift of flowers sent recently to the funeral of a test operator’s mother.

“It brought him to tears,” she said. “It shows people we’re a family here.”

The team quickly expanded its efforts to the greater CTSF and Fort Hood community.

“We did Test Team fundraisers to support Communities in Schools, the annual cancer drive, Ride 2 Recovery, and homeless shelters in (the neighboring communities of) Copperas Cove and Killeen,” Meverden said.

“We’ve also organized two team-building sessions for everyone in the Test Cell,” Meverden said, “and there’s another one coming up soon.”

The GLEAM Team funds all of its activities with donations, bakes sales, breakfast taco sales, and luncheon tickets.

And who helps the three GLEAM Teamers with all of their efforts? Meverden answered:

“We recruit help when we can, or when we really need it. But most of the time it’s just us.”

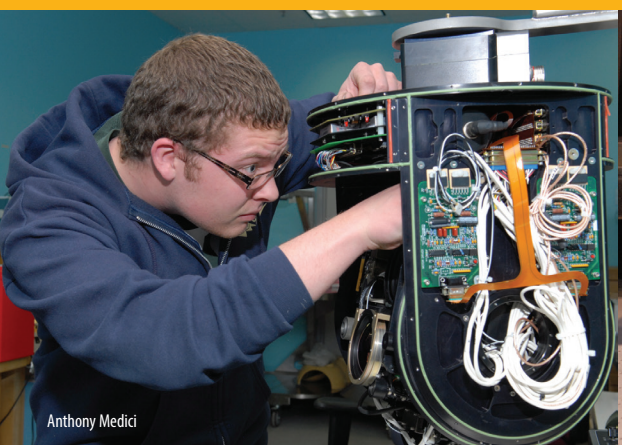
What do the team members get for their efforts, apart from lots of extracurricular hours?

“For me,” Meverden said, “it’s the satisfaction of knowing you’re playing a part in making life better for the people here in the Test Cell.”

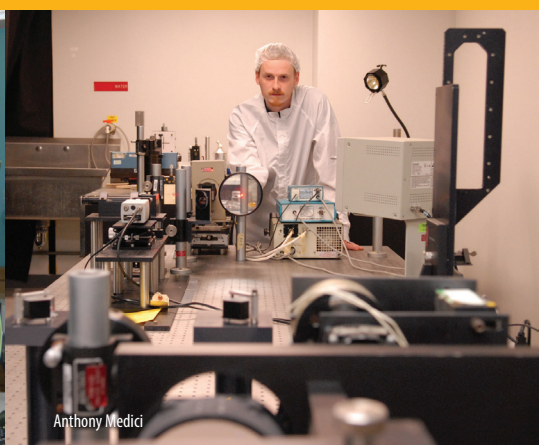
“It’s just good knowing we’re helping to keep us together as a family at the CTSF,” Bryant said.

Eye-opening mission gives

By Anthony Ricchiazzi, TYAD



Engineering Technician Jordan Brandes inspects a circuit card assembly for a Long-Range Scout Surveillance System during the repair process.



Electronics Worker Daniel Taylor performs a preliminary internal laser alignment of the Ground Vehicle Laser Locator Designator (GVLLD) system using a Telescope Focus Test Station. The GVLLD provides targeting for laser guided bombs, missiles or precision munitions.

Well-trained and skilled depot employees maintain and support the military's vast array of electro-optics/night vision (EO/NV) systems here and around the globe.

Technicians overhaul, repair, modify, test and install EO/NV systems for all branches of the service and foreign military service customers.

Tobyhanna's capability extends beyond night vision devices and scopes to include support of systems such as driver viewers, laser range finders and Target Acquisition Systems, Bradley Fighting Vehicle Targeting Systems, the Vehicle Optics Sensor System, forward looking infrared, FLIR, and infrared sensors, according to Joseph Fantanarosa, chief of the Electro Optic/Night Vision Division.

Technicians also provide Reset capability for one of the latest systems to be repaired by Tobyhanna — the AN/TAS-8 Long Range Advanced Scout Surveillance System, known as LRAS3.

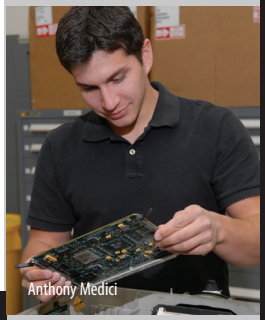
"Night vision and imaging systems expertise has enabled Tobyhanna to support the Army's slogan 'We Own the Night,'" said Frank Zardecki, Tobyhanna Army Depot deputy commander. "Tobyhanna

shape to unknown

has been repairing electro-optics and night vision equipment since the 1990s, so there are literally hundreds of years of combined experience on the shop floor and in our engineering department. It's this depth of experience that provides a solid base to take on new challenges."

The depot boasts a comprehensive mix of test equipment and facilities to handle a variety of EO/NV workload. However, senior leaders recognize that the work force is its strongest asset so they consistently invest in training, development, and facilities increasing the depot's capability edge.

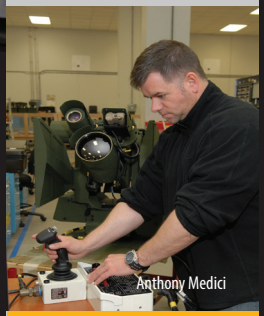
"Tobyhanna has the highest concentration of highly skilled and well-trained, high-tech electronics mechanics supported by one of the most robust engineering staffs in the Defense Department industrial base," said Col. Gerhard P.R. Schröter, Depot commander. "We will always adapt to support new electro optics and night vision systems. The men and women of our armed forces can count on Tobyhanna for superior service worldwide to help keep them one step ahead of our adversaries."


Anthony Medici

Engineering Technician Jordan Brandes inspects a circuit card assembly for a Long-Range Scout Surveillance System during the repair process.


Anthony Medici

Electronics Mechanic Fred Hawkins adjusts an AN/TAS-4 Thermal Site scanner. The scanner provides night vision capability for the Tube-launched Optically-tracked Wire- guided missile.


Anthony Medici

James Bamert, electronics mechanic, tests and aligns a Common Remotely Operated Weapon Station (CROWS).

A soldier from 2nd Brigade, 1st Armored Division uses Common Tactical Vision during the Army's fourth Network Integration Evaluation, NIE 13.1. The touch screen-based tool is used for mission command planning at various echelons across the brigade combat team.

CTSF prepares for summer execution, NIE 13.2

FORT BLISS, Texas –Central Technical Support Facility-Forward personnel have been fully engaged in preparations for Network Integrated Evaluation 13.2 scheduled for early summer this year.

The CTSF-F's Capt. Edgar Lopez, reports two of the facility's network engineers and a configuration manager are working on a daily basis in support of the Brigade Modernization Command, and are providing valuable contributions in network integration workgroups.

"We're continuing to provide network engineer support on the System of Systems [Engineering &] Integration Directorate front as well," Lopez said.

Other CTSF-F team members are working with the leader Continuous Process Improvement engineer in the development of operational plans supporting the "full execution" of the NIE, and are continuing assistance to Army radio operators in troubleshooting the Sub-Network Access Protocol, or SNAP.

As part of Capability Set 13, the Army is fielding Warfighter Information Network-Tactical Increment 2, a major upgrade to the tactical communications backbone that will introduce mission command on-the-move, allowing soldiers to communicate continuously inside tactical vehicles. WIN-T Increment 2 will also extend satellite communications to the company level, so the soldiers closest to the fight will have greater connectivity than ever before.

THE INTEROPE

CTSF test experts examine 101 tactical system test cases for Army interoperability

FORT HOOD, Texas – The Central Technical Support Facility Test Team was hard at work in mid-March and early April in the Software Block 11-12 Army Interoperability Certification, AIC, Tri-Annual test.

The event, the second of three major interoperability certification tests scheduled this year for Software Block 11-12, will see CTSF test officers and operators, examining 101 test cases involving major tactical software systems.

The Bradley Fire Support Team, air defense artillery, and fire support systems were the primary focus of testing during the opening weeks of the AIC event. The test team turned its attention to other systems, including aviation software, later in the event.

The CTSF test floors were linked to the Redstone System Aviation Integration Lab to facilitate testing of aviation systems during the AIC event, according to CTSF Test Director Madeline Wright.

CTSF supports 'new wave' of ASA(ALT) software blocking

FORT HOOD, Texas – A significant portion of the Central Technical Support Facility's expansive test floor been turned on and turned over to what is likely to be the Army's new way of designating tactical software systems.

April 1, 2013 marked the first day of a CTSF-supported Interoperability and Integration Event, I2E, for between 45 and 50 software systems that will be involved this fall in the very first Common Operating Environment, COE, Army Interoperability Certification test.

The I2E will run, according to a CTSF Senior ORSA Harold Nuessen, through Aug. 12. Nuessen said CTSF test officers and test operators will run the I2E in support of Assistant Secretary of the Army (Acquisition, Logistics, and Technology), known as (ASA(ALT)). The COE I2E operating area is located in the CTSF's 12 West test floor.

"It's actually ASA(ALT)'s event," Nuessen said. "We're supporting them."

As of late March, ASA(ALT) was planning to run the I2E through Aug. 12. At that time, the test floor would be "handed back" to the CTSF, which, in turn, would begin interoperability certification testing of the systems involved in the I2E.

Until recently, ASA(ALT) required software systems to be tested and fielded in what were known as software blocks. ASA(ALT) officials decided to rethink its testing and fielding, and came up with the COE construct.

The CTSF was given the mission of conducting the first interoperability certification testing of the first systems to be included in the COE construct in what will be known as COE 1.0.

By David G. Landmann, CTSF

ERABLITY EXPERTS

CECOM, industry, collaborate to establish organic COTS radio sustainment support

Story and photos by Andricka Thomas, CECOM

(from left to right) William McCarthy, Saverio Panduri, George K. Brown, Denise Mathews, Joseph S. Beteta, Ceciliana Cruz, Leanne J. Lassiter, Theresa S. Smith, Raymond C. Bailey, Victor Lee, Alfonso M. Granville

CECOM's Logistics and Readiness Center led the way with Product Manager Network Systems, Army DA G8 and Tobyhanna Army Depot to establish organic radio repair capabilities through maintenance partnership agreements between Tobyhanna Army Depot and three original equipment manufacturers, said Ceciliana Cruz, logistics management specialists, LRC.

The agreement addresses depot sustainment capabilities for warranty and non-warranty equipment. Although partnerships are not new concepts in Army maintenance, CECOM plans to leverage the agreements to develop an organic repair capability for use in fiscal year 2013 and beyond, said Cruz.

"In FY 12, we didn't have an organic repair capability for the radios," explained Cruz. "Radios were repaired under warranties or the requesting unit paid the Original Equipment Manufacturer or a Regional Support Center for out of warranty repairs. Having this organic repair capability allows for replenishment of the Standard Army Supply System through repair of Line Replaceable Units."

The assembly program takes Theater Provided Equipment, TPE, returning from Southwest Asia and repairs and assembles the Line Replaceable Units into radios to be used to fill unit Equipment On Hand shortages. The LRC funds Tobyhanna for repair and set assemble support, working hand-in-hand to establish this capability. Under the program, Tobyhanna tests and

inspects returning TPE Excess, repairs Line Replaceable Units and obtains ancillary items (i.e. cables, brackets, antennae) and configures them into end items for reissue to fill Equipment On Hand shortages, according to Cruz.

"This is the first time that I'm aware of that units were asked to leave their equipment in theater and return stateside with shortages," said Cruz. She said the radios procured during the war were only for the duration of the conflict and were never meant to be reutilized and transitioned into sustainment. "These radios were purchased to bridge the gap until the Joint Tactical Radios System, JTRS, was developed and fielded. Since JTRS is not yet fielded to its Army Authorized Objective, these radios must remain in the Army's inventory and subsequently be serviced and sustained."

As we move back to a home station based Army, many of the processes we put in place over the last ten years will have to change. Specifically, how we formalize the transition of programs to sustainment. We are working with our PEO/PM [Program Executive Officers/Program Managers] partners to ensure our Warfighters receive the best sustainment support given our new environment. This will take a team effort and, together, we will be successful.

~Lane Collie, Director, Logistics and Readiness Center

CECOM has budgeted and planned for the reutilization of all available returning TPE in fiscal year 2013, said Cruz. Program quantities are limited by the number of retrograded TPE received and program completion is dependent upon the availability of Overseas Contingency Operations funding. To date, TYAD has been funded $8.7 million for the fiscal year 2013 set assembly effort which will produce 2100 end items of various COTS radio configurations. The requirements have gone up since last fiscal year, said Cruz.

The repair effort will be on-going for the life of the system. The set assembly program will be on-going until all equipment on hand shortages are filled or all TPE assets have been utilized, whichever comes first.

CTSF welcomes tech director

Story and photos by David G. Landmann, CTSF

Central Technical Support Facility Technical Director Dererick Giles was promoted to the rank of lieutenant colonel at Fort Hood, Texas.

Lt. Col. Giles' wife, Sabrina, and sons Dererick Jr, 16, Devin, and Donovan, affixed the symbols of his newly-achieved rank to his uniform as dozens of CTSF staff members looked on. Col. (P) Patrick D. Sargent of the Carl R. Darnall Army Medical Center, administered the oath of rank.

Invited guests at the ceremony included Giles' mother, Earnestine Snell; his mother-in-law, Mrs. O'Nece Johnson, and the Rev. and Mrs. Rodney Gilchrist of the Liberty Christian Church of Killeen.

Giles came to the CTSF in January from Fort Hood's Operational Test Command, where he had served since June, 2011. Prior to his arrival at Fort Hood, Giles served as assistant program manager for the Call for Fire Trainer System in Orlando, Fla. A native of Lexington, Miss., Giles began his career in 1990 as an enlisted Soldier, and saw his first commission in the Army Field Artillery Branch.

His awards and decorations include the Bronze Star with Valor, the Meritorious Service Medal, the Army Commendation Medal, the Army Achievement Medal, the Global War on Terror Expeditionary Medal, the Global War on Terror Service Medal, Iraq and Afghanistan Medals, the NATO Medal, and the Army Parachutist Badge.

He holds a Bachelor of Science degree in psychology from Alcorn State University, and is a graduate of the Army Field Artillery Officer basic and advanced courses, the Army Acquisition basic course, airborne schools, and Command and Services Staff school.

Did you know?

SEC's Joint On-Demand Interoperability Network is continuing coordination efforts to provide a connection between the United Kingdom FALCON and the Program Executive Office for Command, Control and Communications Tactical WIN-T system for cost effective coalition interoperability testing.

Colonel (P) Patrick Sargent, left, administers the oath of rank to LTC Dererick Giles, technical director of the Central Technical Support Facility (CTSF) at Fort Hood. Giles joined the CTSF in January as a major (promotable), coming from a leadership position at the Fort Hood-based Operational Test Command. Giles was promoted in a March 1 ceremony.

Family members of Central Technical Support Facility (CTSF) Technical Director Dererick Giles, place the symbols of his new rank on Giles' uniform during a March 1 ceremony. Giles, who joined the CTSF in January, was promoted to the rank of lieutenant colonel. Shown, from left, are Giles' wife, Sabrina; son Dererick Jr., son Devin, Giles, and son Donovan.

ARMY MODERNIZATION PROGRAM TO REPLACE CURRENT LEGACY POWER SYSTEM

By Andricka Thomas, CECOM

The CECOM Logistics and Readiness Center supports the Large Advanced Mobile Power Sources, LAMPS, to improve existing fielded legacy power systems. This modernization program aims to provide more mobile, reliable and logistically supportable tactical electric power sources for the Department of Defense's 21st century digital force.

The LRC, the Department of Defense lead sustainment proponent for generator sets, serves as the Generator Sets life cycle sustainment portion of Program Manager, Mobile Electric Power, PM MEP. As the sustainment component, the LRC provides engineering, provisioning, technical writing and supply support to PM MEP throughout the acquistion, deployment a and up to 20-25 years of life cycle support, according to Ted Bank, LAMPS integrated logistics support manager, LRC.

The Army's planning to replace the currently fielded 100/200 kilowatt Tactical Quiet Generator and Military Standard Generator sets to improve fuel consumption rates, size, weight, diagnostics/prognostics and enhanced survivability and other factors.

"With these operational advantages, units will see a significant reduction in sustainment requirements and support costs," said Banks.

The existing legacy power systems are deployed in support of high-priority parent systems including Battle Command C4I systems, Medical and Force Provider units. Power systems also provide support combat support hospitals, forward operating bases, military intelligence operations and in support of homeland defense activities, Banks explained.

The need for LAMPS is shared by all services, particularly the Army, Marines and Air Force.

"LAMPS gets us closer to a lighter, more efficient, power source solution, keeping our Armed Forces agile and responsive," said James Fleetwood, chief, Large Power Sources Branch, LRC.

Did you know?

A recently deployed, new production Defense Medical Logistics Standard Support server prevented DMLSS users at Bagram Air Base, Afghanistan from ordering medical supplies. In response, SEC created, packaged, and deployed a critical data patch to the server within 4 hours of receiving the outage information, restoring service.

Tobyhanna's radar test capability crosses seas, Australian forces train and reset

By Anthony Ricchiazzi, TYAD

Electronics Mechanic Eric Allison (right) provides guidance to Tim Weyland (left) and Mitch Reeves of the Australian Defence Forces (ADF) as they troubleshoot an AN/TPQ-49 Lightweight Counter Mortar Radar. Allison and other technicians in Tobyhanna Army Depot's Counterfire Division provided maintenance training to several members of the ADF. Tobyhanna will also provide major repair and Reset service.

Australia now benefits from a unique radar test capability at Tobyhanna Army Depot. Eight Australian Defence Force, ADF, communications-electronics technicians spent two weeks here to learn repair and maintenance of a radar system used to track enemy mortar rounds.

AN/TPQ–49 Lightweight Counter Mortar Radar, LCMR, systems sense enemy fire and warn the force so they can respond. Personnel here test and repair LCMRs using a first-of-its-kind mechanical live-fire test simulator. The test simulator is the only one in the Army.

The Australian Army is using the system operationally. "The trained operators have been using the LCMRs for more than two years, and have an evolved understanding of its performance and functionality," said ADF member Sam Banks. "We've been getting good results with it [in] theater. It has good reliability; it's highly maneuverable and highly maintainable."

As part of the ADF's training regime, trade qualified maintainers with specific skill sets in radars, were selected to attend a U.S.-based instructor-led maintenance course.

"The PM (Product Manager) Radars (Aberdeen Proving Ground, Md.) contacted Tobyhanna and asked if we could conduct the training," explained Dean Georgiades, an electronics technician in the Production Engineering Directorate. "This is not the first class we have had, but it is the first for training foreign military customers."

Georgiades and two depot technicians, Mark Dolph and Eric Allison, developed a training plan and conducted the training.

"Tobyhanna's extensive experience and capability in Counter Fire Radar sustainment is evident in the highly effective training we provided for our Australian allies," said Intelligence, Surveillance and Reconnaissance Directorate Director, Bob Katulka. "Tobyhanna engineers and technicians routinely demonstrate exceptional support to our Warfighters, the latest training for our allies being a prime example."

Georgiades noted that because the soldiers already had electronics training, they quickly grasped the maintenance and operational theory portion of the training. Coupled with the hands-on training, he said the Australians will have no problem maintaining their fleet of LCMRs.

"It's good to know that we can get help here," said Radar Tech Advisor Chris Olsson of Australia's Combat Support System Project Office. "We have that established link, but coming here gives better rapport; coupled with an in depth knowledge of how the maintenance facility at Tobyhanna works. Certainly the opportunity to have that face-to-face interaction is invaluable."

Case reporting software tool keeps foreign military sales community updated

By Tony Visaggio, LRC

The Security Assistance Enterprise Management Resource is a Tri-Service Foreign Military Sales, FMS, case reporting software tool that allows personnel in the FMS community a single system to use for the most current information on any FMS customer, FMS service or FMS case.

This accessible single source FMS resource tool provides an executive overview of all FMS case activity. It presents a common operating picture visible to all FMS community members and provides real-time status to the U.S. Army Security Assistance Command's Commanding General. The tool produces a series of overall system status reports indicating the condition of the FMS case in question as being red, amber, or green, signifying the condition of all FMS cases in development, offered and executed, said Tanya Reed-Norwood, LRC.

Reports the tool generates are accessible via the Security Cooperation Information Portal, a portal built using Legacy Case Development and Military Departments Legacy Case Execution systems.

The Security Assistance Enterprise Management Resource tool is accessible 24 hours a day, 7 days a week and can be updated with FMS Case Execution/Development information from anywhere in the world, said Reed-Norwood.

All combined phases of the tool allows for the quickest look into the overall operation scope of an FMS customer, from Letter of Request development to RQN tracking in Case Execution, Reed-Norwood.

USASAC LRC FMS customer, directed that all life cycle management commands use Security Assistance Enterprise Management Resources tool back in December of 2011.

Since the Fall of 2012, CECOM LRC's Security Assistance Management Directorate has been conducting weekly internal Combatant Command/weapon systems reviews on a rotational basis using this resource tool. The review ensures that up-to-date performance information and data is accurately loaded by our weapon system and FMS case operations managers. Since instituted, the overall performance indicators for CECOM SAMD have improved, said Reed-Norwood.

from the Archives

BIRD BOMBS

By Chrissie Reilly, CECOM Historian

It's a bird! It's a plane!

No, it's a bird flying a plane, and there's a bomb in it.

This is the history of a crackpot idea...eventually vindicated. – B.F. Skinner, "Pigeons in a Pelican"

It doesn't sound practical or particularly safe, but it was a real program during the Second World War designed to keep pilots out of harms' way yet still deliver a lethal payload. The United States military and world-renowned behaviorist Dr. Burrhus Frederic Skinner collaborated on Project Pelican during WWII and after.

The US Army mainly used homing pigeons to relay messages during WWI, WWII, and the Korean War. However, the use of pigeons for military purposes was not limited to messenger work, as this project illustrates.

Homing pigeons were so popular as Army messengers during the first half of the 20th century because they were reliable, intelligent, steadfast, and could not be jammed by technological intervention by the enemy. B.F. Skinner argued these attributes would make them excellent missile guides. He developed this idea before the onset of WWII, and worked to develop it

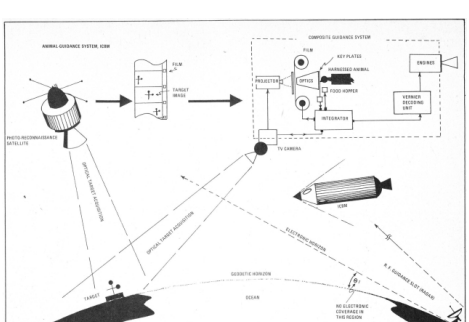


Fig. 1. Proposed animal-guidance system for ICBM. Initial target data is acquired by photoreconnaissance satellite. System operates with superimposed images and can't be jammed.

B.F. Skinner was a professor at the University of Minnesota at the time of the Pelican Project, and held esteemed fellowships and professorship positions at universities and research centers. Skinner published dozens of works about behaviorism, operant conditioning, and the psychology of reinforcement and human behavior.

Skinner's theories framed behavior as a function of an organism responding to, or operating on, its environment. This was true for humans as well as animals. Just as Pavlov was able to show that dogs could be trained to respond to a stimulus, Skinner expounded on this research and applied concepts of learned behavior to training pigeons.

Skinner's work with pigeons was extensive and well established by the time of Project Pelican with the military. Pigeons were one of his favorite animals to research, and he worked with them on many projects. In an article in Time magazine in 1950, Skinner explained that pigeons' long lives, their color vision, and intelligence made them excellent subjects.

Getting a pigeon to fly on its own is one thing, but getting that same bird to fly a missile is another. Skinner first thought of the idea of using pigeons to pilot missiles, kamikaze style, and then set to work developing a program that could be taken over by the military. But he had to train the pigeons first.

Skinner bought some pigeons at a poultry store: 40 homers and 24 ordinary pigeons, and started teaching the birds to earn kernels of grain by pecking at a specific target image. They were taught to peck for food and Skinner's research determined they performed best when feeding on hemp seed. Pigeons could be trained to cooperate with each other as well.

The project eventually involved the nose cone of a missile – the "Pelican" – that would hold three pigeons in separate compartments. Each section had a lens towards the front of the missile, and using operant conditioning, the pigeons were trained to peck at the target projected on it. This would keep the missiles on target.

In what may be an odd partnership, the head of the mechanical division of General Mills Inc. (yes, that General Mills) heard about Skinner's work training pigeons to fly suicide bombs. However, he liked the research and persuaded the company to provide technical assistance to the project. Support helped the project get to a point where it was awarded a contract in June 1943 by the Office of Scientific Research and Development (OSRD).

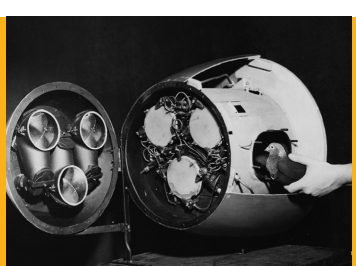
While Skinner was heading the project, many aspects of the Pelican equipment were classified and some of his work was based on educated projection about what exactly was needed to control the missiles. This challenge didn't hinder Skinner or the pigeons. Noises, bright lights, temperature swings, altitude changes, and G Forces did not even cause the birds to miss a peck! In reports on the experiments, "'There wasn't a single washout in the entire class of 64. Every bird earned his wings with an A grade."

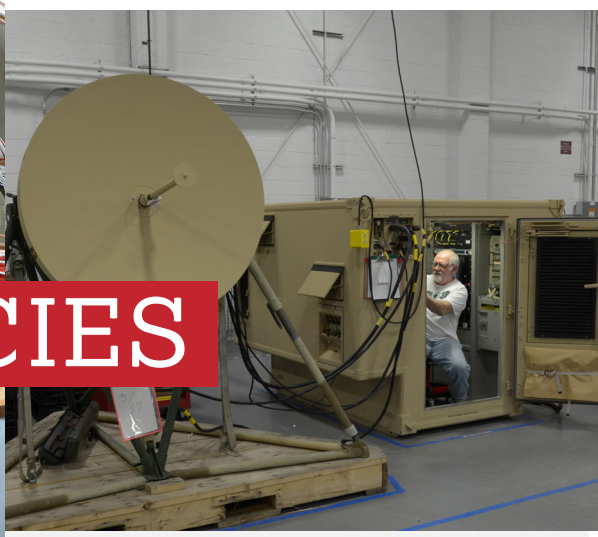
Even the perfect demonstration didn't get this unmanned missile system off the ground. Skinner lamented that "no one would take us seriously" and was concerned about how far ahead Germany was with their own missile technology. He believed in the potential of Project Pelican, and continued to test his pigeons at regular intervals. In C. V. Cline's 2005 article in Aviation History, Skinner "tested them at six months, a year, two, four and six years later. All of them accurately struck the target... While his pigeons were never tested in combat, he was confident they could have carried out their missions."

After World War II, the project resumed and was renamed Project Orcon, for "organic control" at the behest of the U.S. Navy to use missiles against ships. Their interest in Project Pelican in 1948 reinvigorated the project. The original reports were still classified at the time, but Skinner was once again called upon to help train pigeons to control missiles. Training and tests over the next five years showed that the pigeons could still guide missiles!

However, Project Orcon, much like Project Pelican before it, was terminated despite its success. Though the revival was successful technically, it was canceled in 1953 when electronic guidance systems' reliability was proven. The US Army's own Pigeon Breeding and Training Program was discontinued in 1957 when radar and electronic forms of communications became reliable enough.

The idea of a trio of tiny birds flying a vessel carrying an explosive payload might sound fanciful, even ridiculous, to our current notions of technology and advancements. It is the spirit of innovation and creativity however that is to be celebrated. Indeed, had CECOM's predecessor organizations not mastered radar and remote controlled sensing, these bird bombs might have been the weapons of the century.





EFFICIENCIES

The **CECOM Software Engineering Center** developed and maintains the Financial Disclosure Management, referred to as FDM, system, a web-based user friendly system automating financial disclosure reporting and reviewing. The system provides significant cost avoidance for the Department of Defense and other government executive branch agencies. In the three-year period from 2008 to 2010, FDM saved the Army an estimated $9.2 million over the paper-based financial disclosure reporting process and is projected to provide over $8.4 million in cost avoidance for DoD and non-DoD agencies this year.

The **Software Engineering Center's Data Center Services team** is supporting the Office of the Secretary of Defense move of their public facing applications to DISA. The OSD Chief Information Officer requested SEC's support for data center consolidation efforts in the Pentagon, based on SEC's work supporting the Army Data Center Consolidation Plan. SEC's Data Center Services team is developing the architecture to consolidate eight existing public facing applications; consolidating and eliminating redundant applications, streamlining, migrating and hosting the resulting four OSD public facing applications at DISA for Enterprise Information Technology Services Directorate; an office of the Washington Headquarters Services. By implementing best practices and reducing unnecessary applications, SEC is providing OSD with cost avoidance by consolidating the remaining applications and providing a smaller, streamlined server footprint.

Using **SEC's** Acquisition Data Validation Tool, ADVT, the Army has completed Army Contracting Business Intelligence System fiscal year 2012 compliance certification as required by the DoD Data Improvement Plan. Developed in response to an Office of Federal Procurement Policy memorandum issued May 9, 2008, the DoD Data Improvement Plan requires additional steps to verify and validate the accuracy of data in the Federal Procurement Data System - Next Generation. Army components use the ADVT, developed and maintained by SEC to facilitate this process. Through its use, the Army's overall accuracy rate has improved from 89.73 percent in fiscal year 2008 to 96.34 percent in fiscal year 2012. ADVT is a key enabler for Army compliance certification, making the process easier for users while providing efficiency by improving overall reporting accuracy since its inception.

Value

CECOM SEC relocated the Joint Computer-Aided Acquisition and Logistic Support (JCALS) Army Regional Operations Center (AROC) coop site to the Robert A. Young Federal Building in St. Louis, MO, providing an estimated $1.16 million in cost avoidance over the next two years. The new JCALS location not only provides cost avoidance, but also significantly increased efficiency with near real time replication of critical backup data, reducing potential system outage times.

Employees continue to incorporate Lean into work processes to continuously improve **Tobyhanna Army Depot's** competitiveness and customer support, and lower costs. Small changes led to big improvements for Management Assistant Danielle Benson and her team. They were able to streamline the Security Division's Contractor Background Check Process by removing unnecessary and redundant process steps, improving the request form and mistake-proofing methods, and implementing a consistent means of submission. The process lead time (time it takes to complete one check) was reduced from 18 minutes to five minutes and produced a more user friendly process.

Another Lean Six Sigma project has cut **Tobyhanna's** mailing costs by $1 million per year. Process Improvement Specialist Nancy Jinselli led a team that improved the process by which equipment is mailed via Federal Express (FedEx). The team's efforts resulted in a 57 percent cost savings per shipment. Cost savings of $3,012,026 will be realized over a period of three years by identifying and eliminating invalid, unauthorized and incompletely documented FedEx shipments by implementing a revised Tobyhanna form. The form is aimed at reducing rework and mitigating the risks of fraud.

information you can use

How to protect your computer

The same advice parents might deliver to young drivers on their first solo journey applies to everyone who wants to navigate safely online. A special agent in our Cyber Division offered the following:

- "Don't drive in bad neighborhoods."
- "If you don't lock your car, it's vulnerable; if you don't secure your computer, it's vulnerable."
- "Reduce your vulnerability, and you reduce the threat."

Below are some key steps to protecting your computer from intrusion:

- Keep Your Firewall Turned On: A firewall helps protect your computer from hackers who might try to gain access to crash it, delete information, or even steal passwords or other sensitive information. Software firewalls are widely recommended for single computers. The software is prepackaged on some operating systems or can be purchased for individual computers. For multiple networked computers, hardware routers typically provide firewall protection.

- Install or Update Your Antivirus Software: Antivirus software is designed to prevent malicious software programs from embedding on your computer. If it detects malicious code, like a virus or a worm, it works to disarm or remove it. Viruses can infect computers without users' knowledge. Most types of antivirus software can be set up to update automatically.

- Install or Update Your Antispyware Technology: Spyware is just what it sounds like—software that is surreptitiously installed on your computer to let others peer into your activities on the computer. Some spyware collects information about you without your consent or produces unwanted pop-up ads on your web browser. Some operating systems offer free spyware protection, and inexpensive software is readily available for download on the Internet or at your local computer store. Be wary of ads on the Internet offering downloadable antispyware—in some cases these products may be fake and may actually contain spyware or other malicious code. It's like buying groceries—shop where you trust.

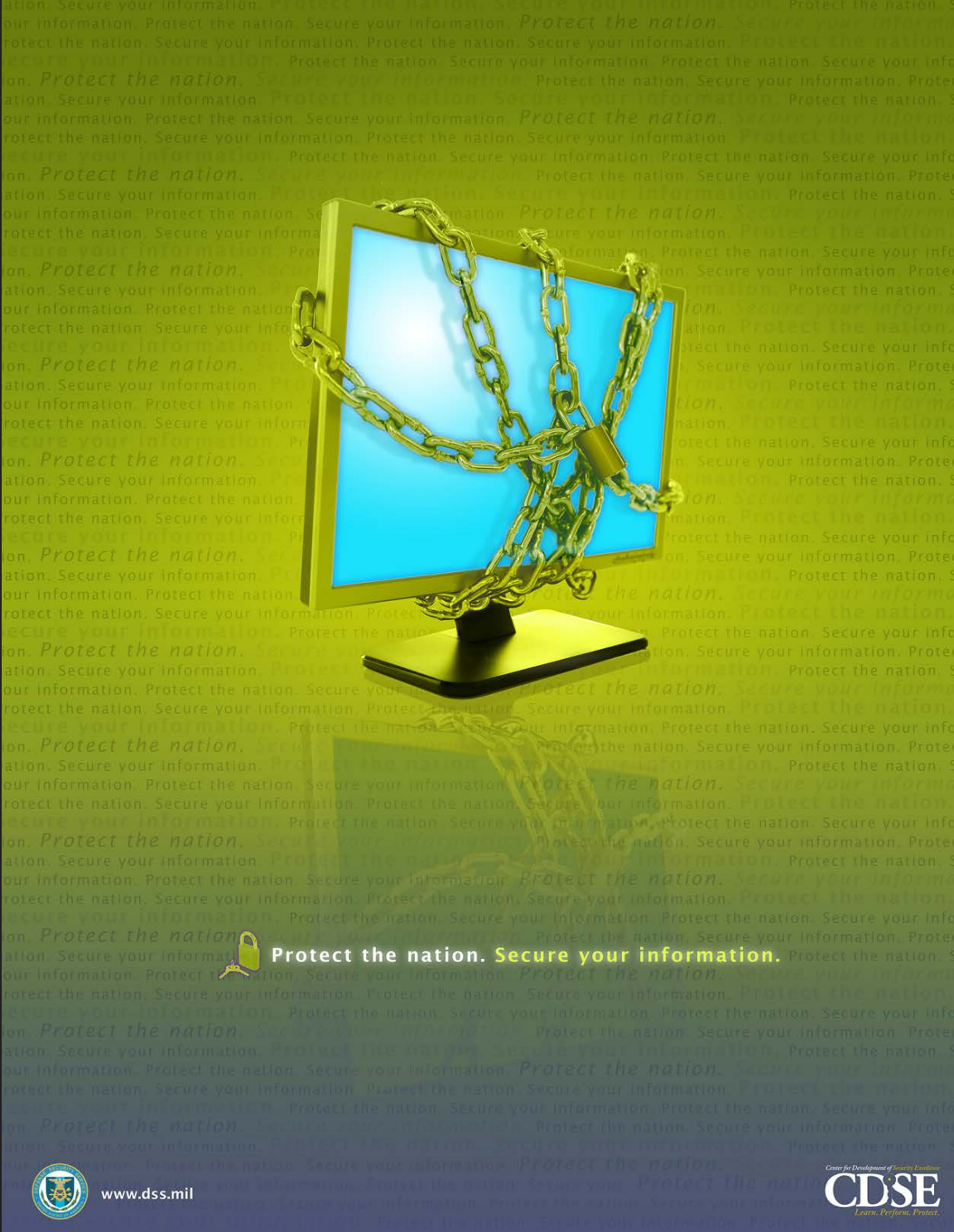
- Keep Your Operating System Up to Date: Computer operating systems are periodically updated to stay in tune with technology requirements and to fix security holes. Be sure to install the updates to ensure your computer has the latest protection.

- Be Careful What You Download: Carelessly downloading e-mail attachments can circumvent even the most vigilant anti-virus software. Never open an e-mail attachment from someone you don't know, and be wary of forwarded attachments from people you do know. They may have unwittingly advanced malicious code.

- Turn Off Your Computer: With the growth of high-speed Internet connections, many opt to leave their computers on and ready for action. The downside is that being "always on" renders computers more susceptible. Beyond firewall protection, which is designed to fend off unwanted attacks, turning the computer off effectively severs an attacker's connection—be it spyware or a botnet that employs your computer's resources to reach out to other unwitting users.

For more information on Internet schemes and how to protect yourself online, visit http://www.fbi.gov/scams-safety.

To Report a crime or fraud, submit an anonymous tip online at https://tips.fbi.gov.



www.dss.mil

Center for Development of Security Excellence
CDSE
Learn. Perform. Protect.

Logisticians save $5.3M servicing the unserviceable

By Andricka Thomas, CECOM

Faced with receiving large quantities of unserviceable equipment over the past two years, CECOM's logisticians devised a solution resulting in $5.3 million in sustainment savings through recovering stock rather than inducting it for contractor repair at cost.

Tobyhanna Army Depot received large amounts of Driver's Vision Enhancer stock that was deemed unserviceable, which prompted the CECOM Logistics and Readiness Center to take a closer look.

Corey Nilsson, LRC

LRC fashioned a team comprised of item managers, engineers, and logisticians and traveled to the Depot to inspect the equipment to identify what equipment was truly at the end of its life-cycle; what items could be fixed; and what equipment was still under the original manufacturer's warranty for repair, LRC's Troy Heitzer, DVE item manager explained.

"The DVE [Driver's Vision Enhancer] weapon system team theorized that units in the field were turning in excess equipment, specifically the Tactical Wheeled Version Sensor and the Display Control Module, even if it was not truly unser-


Corey Nilsson, LRC


Corey Nilsson, LRC


Corey Nilsson, LRC

viceable," said Heitzer. "Through our test, inspect and minor repair capability we had in place at Tobyhanna [Army Depot], we could take advantage of the existing warranty for much of the equipment and recover as many serviceable assets as possible."

LRC's test, inspect and repair capability at Tobyhanna Army Depot proved useful when 87 percent of equipment turned in as 'unserviceable' was found to be under warranty or potentially could be repaired, resulting in $5.3 million in savings, said Heitzer.

As a result, of the 3,455 pieces of equipment inspected, 27 percent of the equipment was covered under warranty and an additional 59 percent were found to be out of warranty, but potentially serviceable or repairable by Tobyhanna Army Depot, said Heitzer.

"If the non-warranty items had been sent to the original equipment manufacturer for repair, the projected total repair cost would have been approximately $5.8 million," said Heitzer. Instead, the Tobyhanna test and inspect effort, including travel costs, totaled just more than $430,000 resulting in a cost avoidance of approximately $5.3 million to Driver's Vision Enhancer sustainment.

This discovery of savings and screening process has served as a catalyst to investigating how to capture other serviceable stock items and delay any need for procurements, according to Heitzer.

"The DVE team is working diligently with their PM [Program Manager] counterparts to proactively execute any possible savings projects," said Heitzer. "We are also instituting a similar test and inspection process on other weapons systems." He explained that portions of the unserviceable stock being received came from the LRC Drawdown teams in Southwest Asia, SWA, whom do not have condition code decision capability on-site.

"Our research is on-going but, to date, we've found that through utilizing test and inspect projects to screen and recover serviceable items is the most cost-effective method to address this issue," said Heitzer. LRC plans to continue the test and inspect process to screen items at Tobyhanna Army Depot going forward.

ISEC experts engineer new networking solution

By Adrienne Dorman, ISEC

Copper cabling is about to meet its thinner, younger, fiber counterpart—a shift in networking trends that may provide significant cost savings. The U.S. Army Information Systems Engineering Command is adding Gigabit Passive Optical Network, or GPON, to traditionally copper-based networks.

This technology has already made an impact in private industry and is now being implemented at Fort Huachuca, Ariz., as a proof of concept program. In a recent Department of the Army directive for network modernization, the Army Chief Information Officer/G6 pointed out that GPON technology can reduce costs by up to 60 percent in network devices, and shortens the length of time necessary to modernize networks.

"It's almost completely driven by cost," said David Premeaux, GPON project lead and ISEC's networking critical skill expert.

GPON has become an attractive solution because it generates cost savings in terms of reduced equipment requirements and lower maintenance and environmental costs.

Yet saving money is only one projected benefit of the GPON implementation. Albert Rivera, ISEC technical director, has broader hopes for GPON.

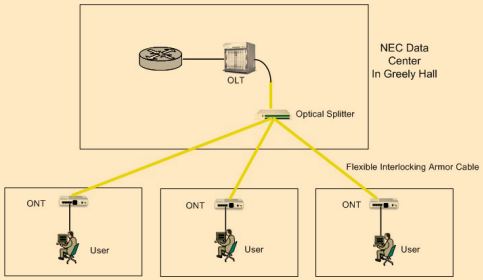
"Fort Huachuca is our first implementation of this technology and we have a tremendous learning opportunity," he said.

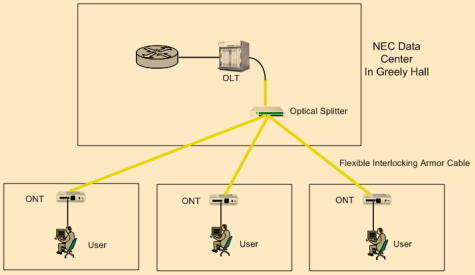
The results have particular importance as ISEC looks toward deploying GPON at other locations.

"The PM I3MP [Project Manager, Installation Information Infrastructure Modernization Program] wants to start looking at GPON for the Army's post, camps, and stations," said Rivera.

The implementation at Fort Huachuca will allow ISEC to expand its areas of expertise and support across other projects.

"GPON is another tool in our toolbox," Rivera said. "Based on our customer's requirements, ISEC will develop a solution, and GPON will certainly be a consideration."





Illustrations by David Premeaux

Premeaux expects that the information technology community will eventually embrace GPON. “A good example of this would be about 10 to 15 years ago, we were doing ATM [asynchronous transfer mode] technology, and this new technology called Gigabit Ethernet came along,” he said. “Some people weren’t comfortable with it, but over time, Gigabit Ethernet took over because it was much simpler and cheaper. You’ll probably see that happen to a certain extent with GPON as well.”

Fiscal anxieties require the Army to adjust to changing financial and strategic demands at military sites around the world. ISEC’s foray into GPON at Fort Huachuca may give the Army some much-needed financial wiggle room.

These illustrations show the Secure and Non-Classified GPON solutions that ISEC will implement at Fort Huachuca, Ariz.

Joe Rivera, a technical specialist with NCI, Inc. moves a ceiling tile in preparation for cable removal in support of the gigabit passive optical network reconfiguration in Greely Hall at Fort Huachuca, Ariz.

David Premeaux, ISEC project engineer, Charlie Carriger, NCI, Inc. project manager, Rudy Dettler, ISEC quality assurance engineer, and Charles Plummer, ISEC project coordinator, inspect a telecommunication room at Greely Hall in preparation for cable removal in support of the gigabit passive optical network reconfiguration in Greely Hall at Fort Huachuca, Ariz.

Driving C4ISR Readiness Worldwide

CECOM Mission

To develop, provide, integrate, and sustain the logistics and readiness of C4ISR systems and mission command capabilities for joint, interagency and multi-national forces worldwide.

CECOM Vision

Life-cycle provider of choice for supporting joint warfighting superiority through world-class globally networked C4ISR systems.

CECOM Core Functions

Depot-Level Manufacturing, Repair & Overhaul

Field Support

Foreign Military Assistance

Interoperability Certification

Logistics Sustainment Planning & Execution

Software Sustainment

Supply Chain Management

IT Systems Engineering & Integration

DEVELOP | PROVIDE | INTEGRATE | SUSTAIN | CECOM.ARMY.MIL

U.S. Army Communications-Electronics Command

THE CRITICAL LINK

At CECOM, we anticipate the needs of a changing world through innovative communications and engineering solutions.

We are transforming and adapting to sustain critical C4ISR assets to improve Warfighter readiness and capability. Now more than ever, the talented men and women of CECOM are advancing the critical link of our capabilities for current and future success.

CENTRAL TECHNICAL SUPPORT FACILITY

LOGISTICS AND READINESS CENTER

SOFTWARE ENGINEERING CENTER

TOBYHANNA ARMY DEPOT

U.S. ARMY INFORMATION SYSTEMS ENGINEERING COMMAND

U.S. ARMY

For CECOM 'One-Stop-Shop' C4ISR support services, contact our Operations Centers…

CECOM HQ
Commercial: 443-861-6509
DSN: 312-848-6509/6508
Email: usarmy.APG.cecom.mbx.amsel-ops-oc-cecom-lcmc-g3-ops-cen@mail.mil
http://cecom.army.mil

Central Technical Support Facility
Commercial:
(254) 288-4035 x2971/2030/2676
DSN: 312-738-4035 x2971/2030/2676
Email: hood.ctsf.operations.distro@conus.army.mil
http://ctsf.army.mil

Logistics and Readiness Center
Commercial: 443-861-6502/6503
DSN: 312-848-6502
Email: usarmy.APG.cecom.mbx.amsel-ops-oc-log@mail.mil

Software Engineering Center
Commercial: duty hours 443-861-8340
After duty hours 443-307-3479
DSN: 312-848-8340
Email: ASK.SEC@us.army.mil
http://www.sec.army.mil

U.S. Army Information Systems Engineering Command
Commercial: 520-538-7624/6033
DSN: 312-879-7624/6033
Email: hqs.isec@us.army.mil
http://www.hqisec.army.mil

Tobyhanna Army Depot
Toll Free: 1-877-ASK-TOBY (275-8629)
Commercial: 570-615-TOBY
DSN: 312-795-TOBY
Email: usarmy.tyad.usamc.mbx.ask-toby@mail.mil
http://www.tobyhanna.army.mil