

# Geospatial Intelligence Forum

THE OFFICIAL **geoint 2009** United States Geospatial Intelligence Foundation **symposium**  
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# SHOW DAILY

DAY  
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TUESDAY,  
OCTOBER 20, 2009

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## CA Ruppertsberger Lawmaker Urges ITAR Reform

While America is the strongest nation on Earth in part because it dominates the skies, it is in danger of losing its preeminence in space because of excessive regulations and a lack of research and development, according to the chairman of the House Technical/Tactical Intelligence Subcommittee.

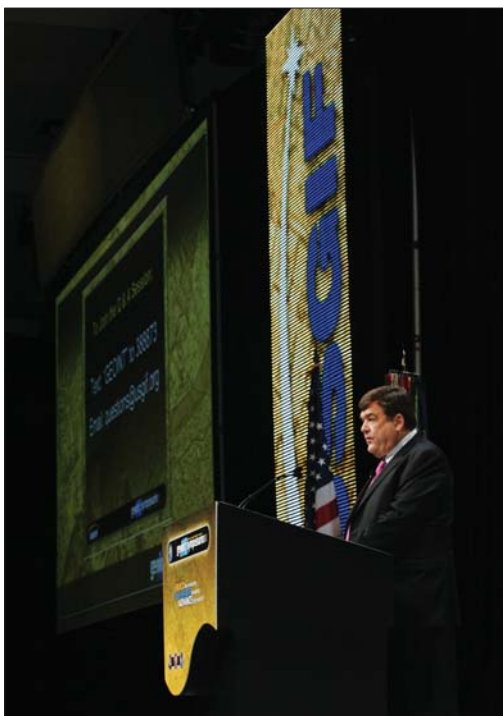
In a speech at the opening session of GEOINT 2009, Rep. C.A. Dutch Ruppertsberger, D-Md., reported on the results of a recent investigation by his panel into the needs and future of the U.S. space program. He called for reforms of the International Trade in Arms Regulations (ITAR), expanded use of commercial imagery and greater investment in research.

"Our launch industry is highly strained to meet our needs, while nations

like France are moving ahead," Ruppertsberger said. "A once robust partnership between the U.S. government and the space industry has been weakened by an inattention to acquisition discipline and other factors. We're facing a challenge left by a decade of failed acquisitions that have left potential holes in our satellite systems, which could leave us without the intelligence we need to prepare for a potential attack or track suspected terrorists around the world.

"Now, we also have the potential to fall behind in systems that provide services such as GPS, weather monitoring and missile warning," he warned. "The consequences of any system that is less than robust are potentially catastrophic."

The Intelligence Committee has spent



much of the past year investigating how the flaws in the space program happened, and how to create a roadmap to move forward. "We knew the situation called for swift action. The Technical/Tactical Subcommittee convened a series of roundtables

with staff from NGA, NRO, NSA and commercial satellite companies. We put together a comprehensive report that is now in the hands of the Obama administration," the lawmaker said.

CONTINUED ON P. 10 ➔

## Dynamic Image Analysis Software

Yesterday, ITT CORP. announced the release of ENVI EX, a new image processing and analysis software solution designed for image analysts and geographic information systems professionals. Developed in response to the growing convergence of mapping and image analysis applications, ENVI EX combines powerful image analysis tools and seamless integration with ESRI's leading GIS platform, ArcGIS, to streamline image analysis workflows and allow users to easily extract important information from imagery. The software also distills complex image analysis tasks into easy-to-use workflows, while maintaining the scientific accuracy the ENVI product line is known for, making image analysis faster and easier to use for analysts of all skill levels. CONTINUED ON p. 10 ➔

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## Afghan ISR Needs to Continue

Regardless of the outcome of the current discussions within the Obama administration over U.S. policy in Afghanistan, the need for ISR capabilities in the region is not likely to decrease, according to Under Secretary

of Defense Robert Gates' ISR Task Force, which is working to accelerate the delivery of the full range of ISR capabilities in Iraq and Afghanistan.

"We've set up a number of process improvement teams,

been emphasizing improving intelligence of NATO," he said, including a secret network for NATO designed to provide more tactical utility in Afghanistan.

"I'm pushing as well a concept that entails broadening intelligence access for certain selected countries, so we would have an advance playbook of information types and accesses that we would share with selected allies. I met in London last week with Commonwealth countries to get them comfortable with this concept. We have to do a lot of vetting, obviously, with DNI and policy people, but I think this is the way we're going to go," he added.

Closer to home, Clapper reported on the status of the Next Generation Electro

National Intelligence have agreed on a program calling for a 2.4 meter class satellite system, which the DNI will fund, with augmented funding from DoD. "We're working now on requests for proposals, and I think it represents a greater partnership," he said.

In response to an audience question about barriers to information sharing, Clapper offered these thoughts: "We have traditionally been in the risk adverse mode, but we need to evolve to the risk management mode. It's particularly important in the context of Afghanistan, which is very much an international fight, and I think there is very little risk in our being open to more sharing.

"This is not just a question of giving five intelligence reports and expecting five in return," he continued. "This is more about using our intelligence capability to motivate other countries to participate in



of Defense for Intelligence James R. Clapper Jr.

In an address to GEOINT 2009 attendees on Monday morning, Clapper offered insights not only into current operational intelligence needs, but also broader issues of intelligence governance, resources and information sharing.

"The big thing for us right now is Afghanistan, and all the talks that are going on in the White House over strategy and troop levels," Clapper said. "But I think it doesn't matter too much how that turns out, because I can't perceive the demand for ISR in the Afghanistan/Pakistan region lessening. We're going to keep driving to enhance ISR in theater."

The former National Geospatial-Intelligence Agency director also reported on the current work of Secretary

including one I'm particularly interested in having to do with collaboration and sharing, and we're involving our allies in that," Clapper said. "We are really seeing the compelling impact of full motion video and geolocation SIGINT in a dynamic sense. What we're trying to do in the ISR Task Force is to capitalize on that and get as many resources out there as possible. I don't think it makes a lot of difference what the troop level turns out to be, because I can't see anyone saying, 'We can do with less of that.'"

Another aspect of this reflects the coalition in Afghanistan, Clapper continued. "I'm speaking here of NATO and its part of the International Security Assistance Force [ISAF], although ISAF includes non-NATO nations as well. I've



Optical program, which he noted "has been a long time in coming, and has not been without controversy." But Gates and Office of the Director of

other ways. If they will deploy troops and sustain a commitment in return for access to intelligence, that's in everyone's best interest." ■

## DARPA SEEKS GREATER DISPLAY OF LOCATION-SPECIFIC INFORMATION

The Defense Advanced Research Projects Agency (DARPA) has awarded a Phase II development contract to **GEOSEMBLE TECHNOLOGIES** that will enable the company's current **GEOXRAY** data integration software to display a greater range of location-specific information.

Geosemble's new DARPA program will build upon the company's capability for assigning textual keywords to geospatial datasets. Geosemble will focus on

expanding its range of information sources beyond text to include video and audio sources, where summarized data is displayed chronologically on an intuitive, user-friendly interface. The system will also have expanded geographic coverage. As part of the program, Geosemble will subcontract to the University of Southern California for technology development in summarizing text documents.

"An integrated interface makes it simple for anyone

to view a satellite image of any place in the world, then click on a location or object to automatically extract relevant information. The application uses automatic techniques to accurately display geographically relevant news articles, business intelligence, events and databases onto satellite and aerial imagery," said Todd Hughes, DARPA program manager.

"The seamless integration of news and data with imagery and maps brings an

important new capability to government users, and has game-changing implications for online publishing and real estate," said Andre Doumitt, Geosemble chief executive officer. "There is a lot of imagery available out there—high resolution, 3-D, ground level and more. This DARPA program enhances our position as the 'data inside' provider for those who need accurate and timely intelligence about their imagery, with accuracy down to the building level." ■



[www.njvc.com](http://www.njvc.com)

As the largest IT/IS provider for one of the nation's largest leading intelligence agencies, and one of the top 20 IT contractors for DoD, NJVC is committed to building the GEOINT community, accelerating innovation and advancing the tradecraft. Driven by the power of partnership, NJVC goes to extraordinary lengths to provide the best IT/IS services possible, so our customers are free to concentrate on their mission. Learn more about our full lifecycle of secure, innovative IT/IS solutions at [www.njvc.com](http://www.njvc.com).

## Video Enhancements Bring Near-Real-Time Information

**HARRIS**, which unveiled the **FAME** video analysis infrastructure earlier this year, is showing a number of enhancements at its booth at GEOINT 2009 designed to solve some of the most difficult challenges of full motion video (FMV) analysis and bring the results as fast as possible to warfighters on the ground.

The new capabilities, some of which are being publicly shown for the first time, reflect the understanding voiced by Harris Broadcast Strategy Officer John Delay: "As full motion video products are starting to be mainstreamed, the need for data is closer and closer to real time. The key challenge is how to bring the product in near-real-time to the people going into the fight."

Harris executives emphasized that the company's

combination of in-depth capabilities in tactical radio communication and expertise in both geospatial technology and video management is providing soldiers in the field the ability to discover and access locally cached GEOINT, to generate, catalog and store field intelligence, and access live video feeds from airborne sensors.

The new FAME capabilities being demonstrated at the Harris booth (#601) are:

- FMV/MI Processing, Exploitation and Dissemination (PED)
- INTflash Multi-media Report Generator
- Media Collaborator

Another feature on display, while still in development mode, creates video summaries aimed at helping analysts manage and understand the vast quantities of video data available.



In addition, Harris has introduced a new airborne-hardened encoder, which more efficiently packages and transmits data and full-motion video gathered by UAVs. The Harris AcuityH264 is a compact, versatile high-definition/standard-definition encoding solution, which meets Motion

Imagery Standards Board (EG0904) requirements for airborne applications. It efficiently compresses full-motion video and attaches mission data, such as telemetry and time of acquisition, that significantly increases the intelligence value of the imagery. ■

## Belgium Acquires Surface Modeling Software

**SIMACTIVE INC.**, a developer of software solutions for the generation of geospatial data, has announced that the Flemish Geographical Information Agency in Belgium (FGIA) has purchased its **CORRELATOR3** software. FGIA will be using the product to generate precise digital surface models from aerial imagery.

"Our organization required a fully automatic processing workflow, capable of quickly processing large

datasets while producing extremely accurate products," said Stijn Van der Linden from FGIA. "Correlator3D is the technology we were waiting for."

Dr Philippe Simard, president and co-founder of SimActive, stated, "This sale confirms the current market trend for optimizing photogrammetry workflows. Such an important customer strengthens our position as the new generation of geospatial

software products."

Designed for speed and ease of use, the software consists of fully automated software tools for the production of digital surface models and digital terrain models, the creation of orthophotos and mosaics, and the detection of 3D changes. Correlator3D is significantly simpler and faster than currently available tools. Highly trained personnel are no longer mandatory. ■

## Native Network Compression Improves Bandwidth Efficiency

**NETAPP** has added native network compression to SnapMirror thin replication, making it even more efficient in lowering customers' total cost of ownership. With SnapMirror, customers can now improve network bandwidth efficiency up to 70 percent over existing storage and network efficiencies achieved with SAN thin replication.

SnapMirror not only backs up and protects customers' data in the event of a disaster, but can also replicate data in production environments to help customers make decisions faster and get better returns on infrastructure investments. Thin replication can efficiently replicate production data and, with FlexClone copies, provide multiple, instant copies for disaster recovery, decision support, business intelligence analysis, or to support a development and test environment—all with minimal overhead. As a result of this wide range of benefits, customers can buy less storage and reduce their overall power,

space and cooling costs in their data centers.

"SnapMirror is the backbone of our disaster recovery plan, and we rely on it and trust it to protect our critical customer financial data," said Adam Clifton, senior systems administrator at North American Banking Co. "Not only has SnapMirror provided the data protection we need, but we have also been able to leverage its network compression capability to realize benefits across our network. We've been able to increase existing bandwidth utilization by 66 percent using SnapMirror's compression capability, saving an estimated \$10,000."

"Customers have demonstrated that SnapMirror has been extremely successful as a disaster recovery tool," said Patrick Rogers, vice president of solutions marketing at NetApp. "Today, it is much more than that. It has evolved into a multi-purpose tool for our customers to reduce their bandwidth and storage needs." ■



## Army Orders More Laser Target Locator Modules

The Army Program Executive Office Soldier has selected **NORTHROP GRUMMAN** to continue to provide laser target locator modules (LTLMs) under a five-year indefinite delivery/indefinite quantity (ID/IQ) contract.

Northrop Grumman Laser Systems was one of two awardees under the LTLM ID/IQ contract, with an award valued at approximately \$22 million. The total potential contract value to Northrop Grumman Laser Systems is an estimated \$393 million over the life of the ID/IQ contract.

"This contract award extends our opportunity to provide essential handheld targeting systems to the warfighter," said Gordon Stewart, vice president of Northrop Grumman's Laser Systems business unit. "These systems are

an integral component in the war on terrorism and combating the asymmetric threats our troops face today. We take great pride in our ability to deliver a quality product at the rates the warfighter requires, and we look forward to continuing that commitment for the next five years under this contract."

The LTLM family of handheld laser targeting systems provides full day/night imaging capabilities with accurate target location determination to offer the warfighter critical stand-off range for targeting enemy forces.

**BAE SYSTEMS** in August announced a five-year, \$347 million contract to produce, maintain, and provide logistical support for 200 digital handheld LTLMs per month for the Army. ■

## Software Extends Visibility into Virtual Computing Environment

**NGENIUS** Virtual Agent software from **NETSCOUT SYSTEMS** extends critical unified service delivery visibility into applications contained within a virtual computing environment. As a virtualized implementation of the company's widely deployed nGenius Probe technology, the nGenius Virtual Agent seamlessly extends high-performance packet-flow monitoring and analysis capabilities deeper into the data center and private clouds—enabling the IT organization to regain true end-to-end visibility of application traffic from within virtual servers.

As IT organizations are increasingly leveraging application and server virtualization technologies, they lose visibility into the behavior and performance of the very applications that have been virtualized. What was once a rack of dedicated servers interconnected via network switches has now been consolidated into a single virtual server hosting many different applications with

a virtual switch enabling communications between the virtual machines.

While tools exist for managing the virtual platform, IT organizations have remained challenged to consistently manage, optimize and troubleshoot virtualized applications relative to, and in context with, end-to-end service delivery. IT staff needs a unified view into inter-application transactions and performance as it relates to end-to-end service levels and user experience that is consistent with how traditional application deployments have been measured.

Seamlessly integrated with the nGenius Service Assurance Solution, the nGenius Virtual Agent complements nGenius hardware-based instrumentation strategies by re-establishing real-time, always-on visibility into virtual computing environments. The nGenius Virtual Agent installs as a virtual appliance on a virtual machine, consuming minimal platform resources. ■



## Partnership Provides Enhanced Information Analysis

**INITIATE SYSTEMS**, a provider of data management solutions for information sharing and improved data quality, has entered into a partnership with **PALANTIR TECHNOLOGIES** to provide enhanced information analysis that helps government agencies more effectively identify persons of interest.

Initiate's software is designed to help intelligence and law enforcement agencies "connect the dots" between pieces of information in multiple, disparate systems. Palantir Government is an open, extensible platform for data integration, search and discovery, knowledge management, and collaboration, which is designed to enable sharing information across organizations while protecting privacy and civil liberties.

"The Initiate and Palantir offerings are like two pieces of the information-sharing and analysis puzzle that fit perfectly together," said Bill Conroy, president and chief executive officer of Initiate Systems.

First, Initiate software automatically resolves large numbers of entities, with nearly 100 percent accuracy, and reduces the volume of "noise" presented to analysts. Next, Palantir's ability to provide distinct, unique entity records to its users helps government analysts more quickly find the proverbial "needle in the haystack."

"The products are an ideal combination, particularly for analysts working within defense, law enforcement, homeland security and intelligence communities," Conroy continued. ■

## Partnership Offers Precise Registration of Imagery



**ERDAS and OBSERVERA** have announced a new partnership to develop an integrated solution based on ERDAS Apollo technology, which will be available to U.S. clients.

Observera is integrating the Sensor Model-based Automatic Registration Tool (SMART) registration engine into ERDAS Apollo, providing another option for delivering registered image products. This solution will augment ERDAS Apollo's data provisioning and processing workflow and provide an end-to-end solution for customers that require detailed registration of images.

ERDAS Apollo 2010 is customizable, equipped to fully understand, competently manage and rapidly serve an organization's large volumes of geospatial data. It implements an out-of-the box service-oriented architecture, that provides a publish, find and bind workflow for

any data type. With a spatial data infrastructure, ERDAS Apollo provides an interactively connected framework to support the management and serving of spatial data, metadata and maps.

Using a photogrammetric sensor model-based approach, Observera developed SMART to automate image registration. It operates in near real-time, is highly extensible, and supports numerous ingest formats, model-based image projection and orthorectification.

"Observera is known for developing innovative solutions for both military and national security imaging problems, bridging the gap between the government and commercial remote sensing communities," said Greg Olson, director of defense sales, ERDAS. "Integrating SMART with ERDAS Apollo creates a unique enterprise solution for precise registration of imagery." ■

## ANALYSIS SOFTWARE SLATED FOR 2009 UPGRADE

**BAE SYSTEMS** has announced that **SOCET GXP V3.1** software is scheduled for release later this year. The new version features new automated high-performance tools including video analysis, terrain analysis, hyperspectral and multispectral analysis, and Xport.

The video analysis tool reads and displays live video feeds or saved video files from airborne sensors. It uses the image metadata and a video sensor model for accurate geopositioning. With a single click, analysts move still frames from a video sequence into the SOCET GXP Multiport for high-definition viewing and in-depth analysis.

New terrain analysis tools are provided for slope and aspect analysis, giving users the added visualization needed to complement terrain shaded relief displays. Optimized terrain analysis results are generated on-the-fly and displayed graphically. When displayed with stereo imagery, analysis tools can be shown in stereo. Results can be converted to a georeferenced raster image product such as a GeoTIFF. The line-of-sight tool has been restructured to display as a range fan or 360-degree view, and also can be converted to a georeferenced raster image product.

Hyperspectral (HIS) and multispectral (MSI) image processing algorithms are used to extract information contained in multiple bands of image data. New HSI and MSI algorithms include de-striping, reflectance calibration, principal components analysis, unsupervised classification, supervised classification, spectral change detection, anomaly detection, spectral unmixing, and band math for user-customized image processing.

The Xport is a specialized window designed for real-time image visualization and detailed analysis. It offers a palette of up to 16 preview panels for different image processing algorithms. Xport panels are linked to each other and to the main Multiport for dynamic updates as the user roams in the main viewing area. Multiple enhancements are shown simultaneously on the same image. The goal is to streamline analysis tasks by reducing the time required to determine the appropriate algorithm to use for an image. ■



## Distributed Common Ground System Accomplishments

The **RAYTHEON COMPANY** has accomplished two major requirements of the Distributed Common Ground System (DCGS) contract, completing the site acceptance testing of two operational Distributed Ground Systems: DGS-2 at Beale Air Force Base, Calif., and DGS-4 at Ramstein Air Base, Germany.

"The DCGS Block 10.2 enterprise is about to change everything in intelligence, surveillance and reconnaissance tasking, processing, exploitation and dissemination," said Anthony DiFurio, director for Raytheon's Multi-Intelligence Systems. "We are at the pinnacle of adopting everyday social media technologies to intelligence analysts."

During the testing, Raytheon and the Air Force conducted a series of functional and performance tests, with representatives from the Air Force program office and the Defense Contract Management Agency observing and evaluating the results. The system shared intelligence data with the DCGS processing, exploitation and dissemination system operation center. It soon will be with Distributed Ground System Experimental (DGS-X) at Langley Air Force Base, Va.

DiFurio added, "The system is processing ISR data faster than the original requirements and shows even more robust capabilities to fight the overseas contingency operations."

When fully fielded, DCGS Block 10.2 will be a worldwide distributed, network-centric enterprise architecture that enables collaborative intelligence operations and production. Its environment provides for both the physical and electronic distribution of intelligence, surveillance and reconnaissance data, processes and systems. ■

## LOCATION PRODUCTS AVAILABLE for Database and Applications

Two **NAVTEQ** products are now available for Oracle Database and applications: **POINT ADDRESSING** and **NAVTEQ TRANSPORT**

Point Addressing provides the positional accuracy that enterprise applications demand for business intelligence solutions. A point address provides a point on a road for a specific address optimizing "to the door" arrival by providing address points adjusted to precise address locations.

NAVTEQ Transport data offers detailed road attributes including physical restrictions, legal restrictions, HAZMAT and truck stops, and is specifically designed to facilitate turn by turn navigation for trucks and other large vehicles. In addition, a truck using NAVTEQ Transport can be notified of the height of an upcoming overpass or be directed away from a road that restricts certain types of vehicles.

New enhancements to the geocoding and routing features of Oracle Spatial in Oracle Database 11g Release 2 include support for point addressing and truck transportation datasets. Adding Point Addressing to NAVTEQ's portfolio of mapping, geocoding and routing products available for Oracle Database allows Oracle enterprise users to geocode addresses with the highest level of accuracy.

odding and routing products available for Oracle Database allows Oracle enterprise users to geocode addresses with the highest level of accuracy.

"Many Oracle applications depend on NAVTEQ maps and content to meet our customer demands for high quality and accurate solutions," said Steven Hagan, vice president of development, Oracle. "This is another case where Oracle's spatial technologies and NAVTEQ products and services combine to provide leading edge enterprise solutions with location content that enable greater efficiency and functionality."

"NAVTEQ and Oracle have been collaborating for many years. NAVTEQ is the only provider of turn-key data solutions on the Oracle platform. We are pleased to now enable improved mapping, geocoding and routing on the Oracle platform through the introduction of NAVTEQ Transport and Point Addressing," said Roy Kolstad, vice president, enterprise Americas, NAVTEQ. ■



## Enhanced Platform Offers Expanded Cloud Computing Support

**APISTRY** has announced the availability of the latest version of its leading cloud application platform: **APISTRY CLOUDIQ PLATFORM 4.1**. Enhancements to the platform expand support for cross-data center private clouds, as well as hybrid clouds containing both internal and external resources. Additionally, new deployment policies in CloudIQ Platform 4.1 allow enterprises to more easily migrate complex, multi-tier enterprise systems.

Appistry CloudIQ Platform 4.1 introduces the Appistry Network Bridge, which enables customers to more easily deploy private cloud environments across network boundaries. Using the Bridge, a

single private cloud can unify resources located in multiple physical data centers, simplifying disaster recovery and helping to ensure continuity of operations. In addition, the Bridge can be used to create a hybrid cloud environment composed of private and public cloud resources.

The ability to configure a single cloud spanning multiple corporate data centers allows maximization of flexibility and control, while minimizing operational complexity and risk. The ability to extend the cloud to include third-party resources when ready is a real bonus. The new features offered in Appistry CloudIQ Platform 4.1, such as the ability to easily span corporate data centers, reflect

the maturity of customers' cloud deployments and the depth of experience. As the leading application platform for private and hybrid clouds, CloudIQ Platform continues to lead the pack in innovation and capability.

The Appistry Network Bridge is able to efficiently transport network traffic between environments where logically separate networks cannot communicate via multicast. The tool enables Appistry and third-party tools utilizing multicast for advanced features to effectively operate in network environments that do not support multicast, across a wide-area network or the Internet, and in any public cloud infrastructure, such as

Amazon EC2. Used in conjunction with a VPN solution, the bridge facilitates the creation of hybrid clouds with both internal and external resources.

Today's enterprise systems are often complex and multi-tier in nature, with rich dependencies between application components. With Appistry CloudIQ Platform 4.1, these dependencies can now be declared among the services and applications deployed to the cloud environment. CloudIQ Manager enforces these dependencies, ensuring that the correct versions of each component are available on the appropriate resources at runtime, simplifying the migration of existing applications to cloud environments. ■

## Wide area Network Optimization

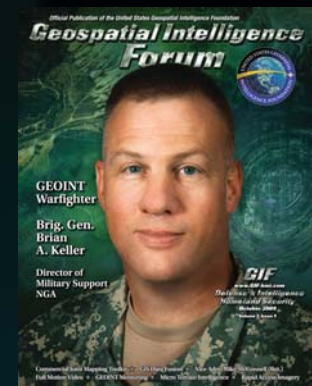
**RIVERBED TECHNOLOGY**, an IT infrastructure performance company for networks, applications and storage, has announced increased scalability and flexibility for large-scale wide area network (WAN) optimization deployments with the introduction of the new Interceptor 9350 appliance and enhanced Riverbed software. The Interceptor allows enterprise customers to scale their WAN optimi-

zation solution to support hundreds of thousands of end users and very large bandwidth WAN connections across an enterprise.

Interceptor is a specialized clustering device for high-capacity, high-availability Steelhead appliance deployments. The Interceptor extends the scaling and performance capabilities of Steelhead appliances to meet the requirements of very large data center environments. The Interceptor allows clusters of up to 25 appliances to work together seamlessly and simplifies network setup, while offering an even wider choice of high-availability configurations

to support the largest and most complex enterprise networks.

Riverbed Interceptor 9350 is designed to provide increased benefits, including enhanced scalability to drive greater throughput and increased capacity to support more users. The new Interceptor, in comparison to the previous model, provides up to three times more throughput while still supporting up to one million concurrent connections. In addition, the new Interceptor supports up to three 10G network interface cards which support customers' taking advantage of modern data center designs. ■



**ARMY BRIGADIER GENERAL BRIAN A. KELLER** HAS BEEN NOMINATED FOR APPOINTMENT TO THE GRADE OF **MAJOR GENERAL**. KELLER IS CURRENTLY SERVING AS MILITARY EXECUTIVE, NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY, BETHESDA, MD. ■

# SHOW DAILY

➔ **CONTINUED FROM p. 1** The report urges that:

- America needs to reform current export regulations, specifically ITAR.

While it had good intentions, Ruppertsberger said, ITAR is severely hurting the industry. It was intended to prevent sensitive information from going to nations that are potential security risks. But over time, the policies meant to make the nation stronger are having the opposite effect.

The ITAR process is cumber-

some, time consuming and expensive, he continued, noting that the share of the commercial satellite industry controlled by U.S. companies has fallen from 70 percent 20 years ago to 27 percent today.

Ruppertsberger pointed out that the House has approved a provision calling for the Director of National Intelligence to review ITAR regulations to determine which satellites and components could safely be taken off the list. He urged listeners to lobby Senators to approve the provision.

- Funding for R&D must increase and happen before manufacturing begins.

"We are going into acquisition with premature technology," Ruppertsberger said. "We are putting the cart before the horse. By the time a project gets to manufacturing, everything should be an exact science. We need to invest a lot more before manufacturing in research and development."

- Commercial imagery must be considered under certain circumstances to use the

latest technology while keeping costs down.

"We have to take a closer look at commercial imagery when appropriate," Ruppertsberger said. The government can avoid buying expensive satellites by purchasing the photos rather than the camera. I spend a lot on dry cleaning, but I would never buy a dry cleaning plant. We can contract for the services we need."

- A comprehensive plan for an Overhead Architecture.
- Reinvigorating science and technology education. ■

➔ **CONTINUED FROM p. 1**

The seamless integration between ENVI EX and ArcGIS allows GIS users to easily exchange data and files from ArcGIS to ENVI EX with simple drag-and-drop methods that preserve the style, symbology, vectors and layer information from one product to another. The

displays of both products can be linked to allow the movement across the screen of one application to occur simultaneously in the other product. This integration allows users of both products to share data and files back and forth between the products to add imagery analysis results to the ArcGIS workflow and vector layers and information to image analysis in ENVI EX.

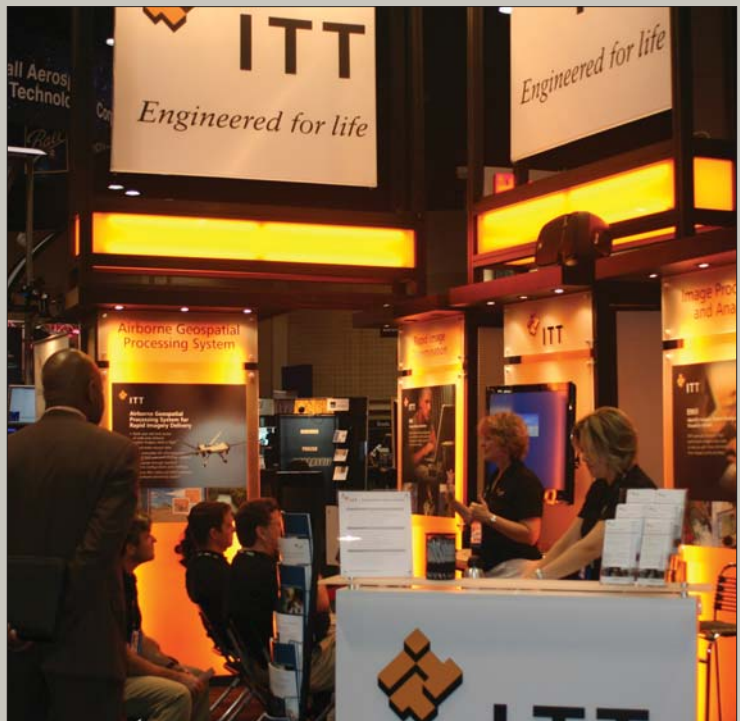
"We have worked closely with our partner, ESRI, over the past two years to develop a product that can be used by imagery and geospatial analysts alike across a variety of disciplines," said Richard Cooke, president of ITT Visual Information Solutions. "ENVI EX is the culmination of this joint effort, delivering automated workflows that are tightly integrated with ArcGIS to save analysts both time and effort while delivering timely and accurate information from imagery.

ENVI EX intuitive interface

provides users with easy-to-use tools for displaying, visualizing and manipulating imagery. Based on the ENVI dynamic display, it allows the user to load large image files quickly and manipulate the images to focus on an area of interest.

The automated workflows guide users step-by-step through analyzing satellite and airborne imagery from a wide range of

sources. The new application solves addresses a number of common problems including: automatically extracting features of interest from a large geographic area; detecting changes in a region over time; classifying land cover; tying an image to its geographic coordinates for accuracy in mapping; and finding anomalous features in an area. ■



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# SHOW DAILY

## DAILY AGENDA UPDATE

### TUESDAY October 20, 2009

**8:00 A.M. USGIF Lifetime Achievement Award**  
 (8:00a - 8:10a, Ballroom A)

**8:10 A.M. Master of Ceremonies — Joan Dempsey**  
 (8:10a - 8:15a, Ballroom A)

**8:15 A.M. Dr. Regina Dugan**  
 (8:15a - 9:00a, Ballroom A)

Dr. Regina Dugan was sworn in as Director of the Defense Advanced Research Projects Agency (DARPA) on July 20, 2009. DARPA is the principal agency within the Department of Defense for research, development and demonstration of concepts, devices and systems that provide highly advanced military capabilities.

**9:00 A.M. The Analyst Roundtable: How Enhanced Multi-INT Coordination is Changing the Analytical Tradecraft — Robert Cardillo, John Oswald and Scott White**  
 (9:00a - 9:45a, Ballroom A)

**9:45 A.M. Public Diplomacy and Human Rights Advocacy— Dr. Lee Schwartz, Francesco Pisano and Lars Bromley**  
 (9:45a - 10:30a, Ballroom A)

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**10:30 A.M. NETWORKING BREAK** (10:30a - 11:00a)

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**11:00 A.M. EXHIBIT HALL OPEN**  
 (11:00a - 6:00p, Exhibit Hall C)

**11:00 A.M. The IC CIO Council** (11:00a - 12:00p)  
**Discussion Moderator:** The Honorable Priscilla Guthrie, IC chief information officer, Office of the Director of National Intelligence  
**Panelist**

- Robert Arbetter, Office of the Under Secretary of Defense for Intelligence
- Charlie Barlow, chief information officer, National Reconnaissance Office
- Catherine Henson, chief technology officer, Defense Intelligence Agency
- Bobby Laurine, chief information officer, National Geospatial-Intelligence Agency
- Kelly Miller, Deputy chief information officer, National Security Agency
- Al Tarasiuk, chief information officer, Central Intelligence Agency

**12:00 P.M. General Victor E. Renuart Jr.**  
 General Victor E. Renuart Jr. is commander, North American Aerospace Defense Command and U.S. Northern Command, Peterson Air Force Base, Colo. (12:00p - 12:45p)

**12:30 P.M. Lunch Discussion: NGA's Functional Management Delivers Geospatial Capability** (12:30p - 1:30p, Rm 216)  
**Discussion Moderator:** Paul Weise, chief functional management officer, NSG and director, Office of Geospatial Intelligence Management, National Geospatial-Intelligence Agency  
**Panelists**

- Barry Barlow, NSG functional manager for acquisitions and director, Acquisition, Directorate, National Geospatial Intelligence Agency
- John Marshall, chief technology officers, Joint Transformational Command-Intelligence, U.S. Joint Forces Command
- Vonna Heaton, functional manager for research, development, test & evaluation, NSG and director, InnoVision Directorate, National Geospatial-Intelligence Agency
- Tom McCormick, functional manager for enterprise operations, NSG and director, Enterprise Operations Directorate National Geospatial-Intelligence Agency

OR

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**12:30 P.M. LUNCH & EXHIBIT HALL**  
 (12:30p - 2:30p, Exhibit Hall C)

**1:30 P.M. NGA TOPS CRADA Update**—Barry Barlow, Kathy Wever, Dennis Lambell, and Tom Freeberg, Harris Corp.  
 (1:30p - 2:30p, Rm 216)

**2:30 P.M. The Promise and Pitfalls of Location Based Services**  
 (2:30p - 4:30p, Rm 217A/B)

This two-hour breakout looks at the promise of location-based services (LBS): applications and technology adoption as well as concerns and pitfalls of LBS implementation with respect to security, vulnerability and disclosure.  
**Discussion Moderator:** Mike Shackelford, director, NGA Business Development, AT&T  
**Panelists**

- Jeff Jonas, IBM distinguished engineer and chief scientist, Entity Analytic Solutions, IBM Software Group
- Terry Busch, senior intelligence officer, Defense Intelligence Agency
- Joe Francica, editor-in-chief and vice publisher, Directions Media
- Michael Jones, Google Earth chief technology officer, Google

**2:30 P.M. GEOINT and Open Source:**  
 A Global Foundation for Action and Impact  
 (2:30p - 4:30p, Rm 217C/D)

Much of the GEOINT foundation derives from open sources, and open source benefits from a foundation of GEOINT. Their fusion into Open Source GEOINT increases our ability to provide value to the intelligence and national security communities. This breakout session highlights best practices from the military, intelligence, and homeland security arenas and outlines successes and the way forward for service providers supporting these communities.  
**Discussion Moderator:** Becky Aiken, deputy director for community integration, Open Source Center

**PART I: USE CASES**

- Stephen D. Fowler, geospatial intelligence manager, 1st Information Operations Command (Land), U.S. Army
- Brian Magana, Geospatial Analysis Branch chief, Joint Warfare Support Office, Defense Intelligence Agency

**PART II: SERVICE PROVIDERS**

- Jane E. Kuhar, chief, Map Services Center, DNI Open Source Center
- MaryLynn Francisco, Office Director of the GEOINT Research, Source Operations and Management Directorate, National Geospatial-Intelligence Agency

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**4:00 P.M. EXHIBIT HALL RECEPTION**  
 (4:00p - 6:00p, Exhibit Hall C)

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**6:00 P.M. EXHIBIT HALL CLOSURES**

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**7:00 P.M. GEOWalk Corporate Hospitality Night**  
 (7:00p - 10:00p, Riverwalk and downtown San Antonio)

The annual GEOWalk Corporate Hospitality Night offers a break in the action-packed agenda. GEOWalk provides another opportunity to socialize outside the exhibit hall and enjoy the company of your peers at various venues throughout the downtown San Antonio area.



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