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**Sent:** Wednesday, November 16, 2011 5:02 PM  
**To:** ICAHST Council Members (icahst@topsecretnet.com)  
**Cc:** Fredrick T. Martin (fredrick.martin@icahst.org)  
**Subject:** Feedback from 15 November 2011 ICAHST Quarterly Meeting

### **Feedback from 15 November 2011 ICAHST Quarterly Meeting**

#### **Attachments:**

1. Agenda 15 November 2011.pdf
2. Participant List 15 November 2011.pdf
3. Cavileer ICAHST Report 15 November 2011.pdf
4. Toomer Outreach Brief 15 November 2011.pdf
5. Flyer 2011 ICAHST NRO LE HS Conference.pdf
6. McCue PAWG Status 15 November 2011.pdf
7. Sands FCIL Brief 15 November 2011.pdf
8. Molloy EQUIS Mobile Brief 15 Nov 2011.pdf

To all –

On behalf of the ICAHST Chair, Mr. Douglas R. Cavileer, I would like to thank all of you who came to the quarterly *Interagency Council for Applied Homeland Security Technology* (ICAHST) Meeting on 15 November hosted by the MITRE Corporation Homeland Security Systems Engineering and Development Institute (HS SEDI), a Department of Homeland Security sponsored Federally Funded Research and Development Center (FFRDC), and held at their McLean, VA campus. In particular, we would like to thank our hosts for their hospitality and support – including Mr. Edward E. Goodnight, Mr. Jeffrey I. Sands, and Ms. Nancy T. Foley.

Twenty-eight council members, alternates, or guests participated from the Department of Defense Combating Terrorism Technical Support Office (CTTSO); the Department of Homeland Security (DHS), including S&T, OIA, OIP, and the Secret Service; the National Security Agency (NSA); the National Reconnaissance Office (NRO); the Bureau of Alcohol, Firearms, Tobacco and Explosives (ATF); the National Institute of Standards and Technology (NIST); the Law Enforcement division of the US Forest Service; and the *Capital Wireless Information Net* (CapWIN) as well as adjunct representatives from the MITRE Corporation. The meeting was held at the UNCLASSIFIED level.

For your convenience, I have attached the final agenda as well as a listing of the participants and their contact information.

#### **Meeting Summary**

Mr. Cavileer updated the Council on activities since his assumption of the Chair, including priority efforts in support of Federal, State, local and tribal partners to enhance homeland security, counterterrorism, and law enforcement support. In addition, the meeting included an Outreach report; a status report and feedback to the Council from the GEOINT Working Group, the Predictive Analytics Working Group and the Technology Working Group; discussions on the formation of two additional working groups: a Mobile Device Working Group and a Forensic Intelligence Working Group. Also, feedback was provided on the recent ICAHST Technology Visit to the Chicago Police Department and Chicago Mayor's Office. Mr. Randel Zeller from DHS/S&T announced an expansion of the *Tactical Network Testbed* (TNT) effort at Camp Roberts, California, sponsored by the US Special Operations Command (USSOCOM) and Naval Postgraduate School (NPS) and invited ICAHST members to participate.

In addition, there were two special briefings:

- MITRE funded Fusion Center Integration Laboratory (FCIL)

- Enhanced Quality Imagery Search (EQUIS)

### **Meeting Discussions**

Chairman Douglas Cavileer welcomed the attendees and asked them to briefly introduce themselves and their organization. Mr. Goodnight also welcomed ICAHST attendees to MITRE and explained the role of the HS SEDI and its support to the Department of Homeland Security.

### **ICAHST Activities from the Chair**

Chairman Cavileer updated the Council on activities since his assumption of the Chair. He discussed the GEOINT 2011 Symposium held in San Antonio, TX, 16 – 20 October 2011. The GEOINT Symposium is the nation's largest intelligence event of the year and is considered by many to be the preeminent event of the year for the defense, intelligence and homeland security communities. More than 4500 personnel were in attendance this year. Speakers included several congressmen and Keith B. Alexander, US Cyber Command and Director, NSA; Bruce Carlson, Director, NRO; James R. Clapper Jr., Director of National Intelligence; General Douglas Fraser, Air Force, Commander, Southern Command (SOUTHCOM); General C. Robert "Bob" Kehler, Air Force, Commander, Strategic Command (STRATCOM); Letitia A. Long, Director, NGA; and Admiral James A. "Sandy" Winnefeld Jr., Commander, North American Aerospace Defense Command (NORAD) and Commander, United States Northern Command (NORTHCOM).

As part of this event, ICAHST sponsored and Mr. Cavileer moderated a special breakout panel entitled, "GEOINT in Support of Homeland Security," with this description:

*"Coordination between Federal, States, Local, and Commercial organizations for response to domestic issues, such as natural disasters and homeland protection, is still a challenge. Data sharing and cooperation among these organizations has increased. However, the interactions between each agencies systems/databases are still not always defined, data models are not established to promote easy sharing of data, and data is not seamlessly used between applications. Experts will discuss how they are moving forward in bridging these challenges via real world incidents and National Level Exercises."*

Other panelists included:

- Dr. Suzette Kimball, Deputy Director, U.S. Geological Survey and Chair, Civil Applications Committee (CAC)
- Dr. John S. Morgan, Command Science Advisor, U.S. Army Special Operations Command (USASOC) and Chairman Emeritus, ICAHST
- Major General William N. Reddel III, U.S. Air Force, Adjutant General, New Hampshire National Guard

Mr. Cavileer also discussed the possibility of the formation of two additional ICAHST Working Groups: Mobile Devices and Forensic Intelligence. After a discussion, it was decided that there was strong interest in both areas.

On Mobile Devices, interest was expressed by CAPwin, University of Maryland, the National Reconnaissance Office, CTTSO, and several others. It was pointed out that Mobile Apps are involved in all ICAHST activities and a special working group would be useful. Mr. Jeffrey Sands from MITRE mentioned that a similar group existed and stated that he would provide additional information. Suggestions for participants and candidates to chair this working group should be sent to the undersigned.

On Forensic Intelligence, interest was expressed by NIST, DHS/USSS, CTTSO and others. Dr. Martin Herman explained the interest of the National Institute of Standards and Technology (NIST) in this area is to use the methods of forensic science to help intelligence, as well as law enforcement applications. NIST has a forensics program that is looking into measurement research, testing and standards. Their main focus is criminal justice as well as computer forensics leading to areas that would be admissible in court. It was decided that suggestions for additional participants and candidates to chair this working group should be sent to the undersigned.

### **CTTSO Annual Threat Day: 11 January 2012**

Mr. Cavileer concluded his remarks by inviting interested ICAHST members to participate in the Combating Terrorism Technical Support Office (CTTSO) Annual Threat Day. This year's event will be held on 11 January 2012 at the Ronald Reagan Building and International Trade Center in Washington, D.C. He explained that the annual Threat Day is a unique opportunity for CTTSO operational stakeholders to take a step back from the highly technical aspect of the various requirements and projects to gain a broader understanding of the current and future threat environment.

The theme for Threat Day 2012 is "A Global Perspective." CTTSO will host briefings by their international partners who will provide current threat-based perspectives from their respective countries or regions, including: Australia, Canada, Israel, Singapore, and the United Kingdom. They will discuss their interpretation of the technical threats or capabilities of terrorists in their country or region, and a speaker from the FBI will focus on the US domestic threat.

The security classification level for these briefings is SECRET, and registration is by invitation only. Interested ICAHST members should send their requests to attend to the undersigned no later than **15 December**. I will then forward all requests to CTTSO who will issue the necessary formal invitations and registration details.

I have attached the slides used by Mr. Cavileer in his presentation.

### **ICAHST Working Group Status Reports:**

#### **Outreach Activities**

Mr. Frank Toomer, ICAHST Outreach Director, and Senior Federal, Civil, and Homeland Security Coordinator, Systems Engineering Office, NRO, presented an update on current outreach activities, including membership activity.

He reported several new ICAHST member organizations, including:

- DHS Chief Technology Officer (CTO) (Mr. Daniel Cotter)
- USSS SIMLAB (Mr. Mark Harmon)
- Loudoun Crime Commission (Mr. Richard Claar)
- Homeland Infrastructure Foundation-Level Data (HIFLD)

Mr. Toomer also explained the background of the NRO Law Enforcement / Homeland Security Technology Exchange Working Group (TEWG) – referred to by many as the "classified" ICAHST – including its close working relationship with ICAHST, and then introduced their members. The TEWG is sponsored by the NRO *Integrated Support Office* and the *Office of the Chief Engineer* and is an informal, technology oriented, needs identification forum that strives to advance information sharing and collaboration; operational support; and technology development and acquisition support. The next TEWG (which meets monthly on the third Thursday) meeting is scheduled for 19 January 2012 at 1:00pm at NRO Headquarters in Chantilly, VA. All cleared ICAHST members are encouraged to attend.

Mr. Toomer presented a detailed update for the Third Annual ICAHST/NRO Law Enforcement Conference, which will be held at the NRO on 6-8 December 2011. The theme this year is: Vigilance Through Integrated Intelligence, Technology and Collaboration. He announced the keynote speakers and provided details on specific conference topics. He stressed that ICAHST member support and input for this event are welcome.

Mr. Toomer concluded by reiterating NRO support for the formation of an ICAHST Mobile Devices Working Group, stressing the multiple ongoing community development efforts and capabilities.

I have attached the slides used by Mr. Toomer as well as a flyer with details for the upcoming ICAHST/NRO Law Enforcement / Homeland Security Conference.

### **GEOINT Working Group**

On behalf of working group chairman Keith J. Masback, Mr. Toomer also presented feedback on the GEOINT Working Group meeting held on 9 November. The purpose of this working group is to explore the roles and responsibilities of ICAHST members and USGIF members in order to build a mutually beneficial geospatial component to ICAHST.

Mr. Toomer reiterated that the primary goal of the GEOINT WG was to provide information to the various agencies and especially State/Local first responders on the availability of useable imagery and how to get it. In addition, the group is continuing to meet regularly in order to reach consensus on the development of a GEOINT requirements concept of operations. He recommended that a special briefing on the Federal Interagency Geospatial Concept of Operations (GeoCONOPS), which was given by Mr. Daniel Cotter, the DHS Chief Technology Officer (CTO), be presented to the ICAHST Council at a future meeting.

### **Predictive Analytics Working Group**

On behalf of the Working Group Co-Chairs, Dr. John S. Morgan and Dr. Colleen M. McCue, the undersigned provided feedback on the efforts of this group which has met twice since the last quarterly council meeting. The purpose of this working group is to explore opportunities for ICAHST members to discuss and collaborate on the role of predictive analytics to enhance our efforts in homeland security, counterterrorism, and law enforcement. The group met on 20 September and 1 November to discuss tools, development of a governance process, research and other related resources, fusion centers – capabilities, requirements studies, and other underlying issues – future conferences, and a discussion of potential specific pilots. As a result, two recommendations were brought to the Council:

- To conduct an ICAHST-sponsored predictive analytics pilot
- To sponsor an ICAHST predictive analytics conference as a follow up to the ICAHST-sponsored NIJ Predictive Policing Conference held in Los Angeles (November 2009)

Both recommendations were endorsed by the Council and work has begun on the Pilot with CAPWIN in collaboration with MITRE. Details of the pilot will be briefed at the next quarterly meeting. The Predictive Policing Conference is being planned for late 2012, probably November 2012, to be held in and hosted by the City of Chicago, as a result of discussions held with Chicago personnel during the recent Technology Trip to that city. Both of the Predictive Analytics Working Group Co-Chairs participated in the discussions in Chicago.

I have attached the slides provided by Dr. McCue.

### **Technology Working Group**

The undersigned provided feedback on the recent ICAHST Technology Visit to Chicago. The purpose of this trip was to meet with appropriate Chicago personnel to discuss technology issues, including public safety, predictive analytics and other technologies of interest. Chicago was the 8<sup>th</sup> ICAHST visit to a major city police department, following Boston, Miami/Dade, DC, Las Vegas, Mesa/Phoenix, Los Angeles and San Francisco.

Overall, the session was very productive. ICAHST attendees included Dr. John S. Morgan, Command Science Advisor, U.S. Army Special Operations Command (USASOC) and Chairman Emeritus, ICAHST and Co-Chair, ICAHST Predictive Analytics Working Group; Mr. James W. Grove, Jr., Senior Advisor, Mid-Atlantic and Great Lake Regions, Interagency Programs, Science and Technology Directorate, US Department of Homeland Security; Dr. Colleen M. McCue, international expert on predictive analytics and quantitative methods and Co-Chair, ICAHST Predictive Analytics Working Group; and the undersigned.

At Chicago Police Headquarters, we met with Jonathan Lewin, their technology expert, who is detailed from Chicago PD over to the Office of Emergency Management and Communications; and Debra Kirby, who heads up the Chicago PD Office of International Relations. We were unable to meet with Superintendent Garry McCarthy as originally planned, but his chief of staff, Constantine Miniotis, represented the Superintendent. During our discussion, Mr. Grove briefed some related DHS/S&T efforts, including iConnex, which was also briefed at the last ICAHST quarterly meeting. There were four take-aways plus a standing invitation to return for a

tour/demo of their *Citizen Law Enforcement Analysis and Reporting (CLEAR)* system and additional follow on discussions:

- ICAHST has been invited to participate as an observer in the police command center during the upcoming NATO and G8 summits which will be held in Chicago in May 2012. This may involve CTTSO, DHS/S&T First Responders Group, and other interested ICAHST members.
- We agreed to collaborate on their predictive policing grant efforts that will be funded primarily by their recent grant award from NIJ.
- ICAHST will assist them in getting out the word to various vendors relating to their upcoming capabilities RFP associated with their predictive policing grant pilot.
- Chicago has agreed to work with us on the upcoming ICAHST Predictive Analytics Conference. Subject to Superintendent approval, the plan is for Chicago to host the event, which would then be held in Chicago – probably in November 2012.

At City Hall in the Office of the Mayor, we met with Brett J. Goldstein, former Chicago PD and now the Chief Data Officer for Chicago. We also met with Felicia Davis the First Deputy Chief of Staff for the Chicago Mayor. We had a good discussion on the new role of predictive analytics in Chicago. Mr. Goldstein has been moved from Chicago PD to his new position for the mayor, elevating the concept of predictive analytics from predictive policing to a broader range of applications. The overall conclusion from this session was that the mayor's office is interested in participating in ICAHST activities, including the upcoming ICAHST Predictive Analytics Conference to be hosted in Chicago.

Future activities of this working group include the annual technology investigation trip to include participation in the annual Consumer Electronics Show (CES) in Las Vegas in January as well as other technology investigation trips. All ICAHST members are invited and encouraged to participate.

## **Other Activities**

### **Third Annual C-IED Symposium**

ICAHST remains interested in supporting the DHS/Office for Bombing Prevention (OBP), DHS/S&T, and other relevant agencies in this effort. No status update was available at this time.

## **Special Briefings:**

### **Fusion Center Integration Laboratory (FCIL)**

Mr. Jeffrey I. Sands gave a summary of the MITRE-funded research and development effort, "Fusion Center Integration Laboratory" (FCIL). Mr. Sands explained that the vision of FCIL was to create virtual models of representative Fusion Centers, connected in a virtual information sharing environment. This will enable Fusion Centers and their stakeholders to accomplish four goals:

- Goal 1: Evaluate CONOPS and technologies for improved intelligence fusion processes
- Goal 2: Explore interoperability and integration requirements to address information sharing challenges for the National Network of Fusion Centers
- Goal 3: Evaluate leading edge technologies
- Goal 4: Capture and share best practices in Fusion Centers

FY-2011 activities in support of this effort have included:

- Establishment of an invitation-only external "handshake group" for the FCIL
- Creation of the FCIL space on the Information Sharing Experiment (ISEE™)
- Establishment of a strategic partnership with the Illinois State Police (ISP) for all aspects of this research
  - Establishment of a process for collecting and sharing Fusion Center best practices in the use of tools and tradecraft
  - Usage of Structured Analytical Techniques (SATs)

Next steps include transitioning this capability to DHS, the Nationwide SAR Initiative, the National Fusion Center Association, and to ICAHST users.

In addition, Mr. Sands reiterated the previously offered MITRE invitation to ICAHST members to utilize their "Handshake" tool. "Handshake," another MITRE funded research prototype, is a social networking tool that enables both internal and external networking by using profiles, discussion capabilities, messaging, and wikis. "Handshake" allows users to create topic-specific groups and may be ideal for collaboration by ICAHST Working Groups.

I have attached the presentation on FCIL by Mr. Sands; however, MITRE has requested that distribution be limited only to ICAHST members at this time. Please do not distribute this document further.

### **Enhanced Quality Imagery Search (EQUIS)**

On behalf of MAJOR Reeco Wigfall, NRO Project Manager, Mr. William E. Molloy gave a presentation on the NRO *Enhanced Quality Imagery Search* (EQUIS) Mobile project. EQUIS is an effort to bring commercial satellite imagery to smartphones and other mobile devices. There are two sub related efforts:

- "iEQUIS" for the iPhone family of smartphones
- EQUIS Droid for Android mobile devices

Mr. Molloy explained that the purpose of this effort is to provide ready access to satellite imagery for users in the field to support changes in tasking, changes in conditions, or for situational awareness – or for users who do not have access to classified imagery.

EQUIS Mobile leverages NRO's long association with the NGA "Web-based Access and Retrieval Portal" (WARP) Program Office, and transition to WARP was completed in March 2011. WARP is an NGA system that provides worldwide access to geospatial intelligence (GEOINT) at multiple security levels. Essentially, EQUIS provides GEOINT to mobile devices. The software is completely government owned and while EQUIS provides unclassified imagery, it can easily be moved to classified systems such as SIPRNet.

This is an exciting development – especially for first responders – and will be promoted within the ICAHST GEOINT Working Group.

At the conclusion of his briefing, an actual demonstration of this technology was provided. I have attached the briefing slides used by Mr. Molloy.

### **Expansion of the *Tactical Network Testbed* (TNT) Program**

Mr. Randel L. Zeller, Director, Interagency Programs, Science and Technology Directorate, US Department of Homeland Security invited ICAHST members to participate in a planned expansion of future experimentation events coordinated by the US Special Operations Command (USSOCOM) and the Naval Postgraduate School (NPS) as part of the *Tactical Network Testbed* (TNT) conducted quarterly at Camp Roberts, CA, and annually at Avon Park, FL. This is a follow-on action to the ICAHST Technology Visit this past summer to the Naval Postgraduate School in Monterey, CA, attended by Mr. Zeller.

USSOCOM has been inviting industry, academia, individuals and Government labs to submit technology experimentation papers addressing innovative technologies leading to possible Government/Industry collaboration for development of USSOCOM technology capabilities. The intent is to accelerate the delivery of innovative capabilities to the Special Operations Forces (SOF) warfighter. They issued an RFI this past summer to solicit technology experimentation candidates from Research and Development (R&D) organizations, private industry, and academia for inclusion in future experimentation events. See:

<https://www.fbo.gov/?s=opportunity&mode=form&id=8c70747b91bba21da881184cefa63f3d&tab=core&cvew=1>

Mr. Zeller anticipates an expansion in funding in this program and encourages the participation by all interested ICAHST members. As a first step, he will forward a listing of the technology experimentation papers to the undersigned for distribution to ICAHST members. As additional information becomes available, I will pass it on to you.

**Requested Feedback:**

In summary, specific feedback is requested as soon as possible from ICAHST members on participation on any of the working groups; including suggestions for chair and membership to the two proposed new working groups:

- Mobile Devices
- Forensic Intelligence

In addition, ICAHST members should send me their requests to attend to the CTTSO “Threat Day” no later than **15 December**.

**Next Meeting**

We anticipate that future Council meetings will continue to occur on a quarterly basis, with the various working groups and committees meeting as frequently as required. We anticipate the next meeting to be in the March timeframe, possibly returning to the previous tradition of having the meetings hosted by and held at various member agencies. Several members have expressed interest in hosting these meetings, which provide attendees with the opportunity to visit the hosting agency. Suggestions for future meeting locations are always welcome – I will be in touch by email with specific details on the next meeting.

The ICAHST constitutes a Council of *Coalition Stakeholders* and is the primary guidance mechanism for this homeland security/counterterrorism activity. It is very important to have your participation and input and your contributions are greatly appreciated.

Warm regards,

Fredrick Thomas Martin  
Executive Director  
Interagency Council for Applied Homeland Security Technology

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