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To: ICAHST Council Members (icahst@topsecret.net.com)
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Subject: Feedback from 3 October ICAHST Meeting

Attachments:

1. Attendees 3 October 2007.pdf
2. Valenta Reflections from the Chair 3 Oct 2007.pdf
3. Sand CLWG Brief 3 October 2007.pdf
4. Sand DHS PTA Template 3 Oct 2007.pdf
5. Sand Privacy Tech Imp Guide 3 Oct 2007.pdf
6. Sand PIA Template 3 Oct 2007.pdf
7. Lantzy RAWG Brief 3 Oct 2007.pdf
8. Mahafza RAWG Input 3 Oct 2007.pdf
9. Deem USMS_FBI Joint Brief 3 October 2007.pdf
10. Fahey Brief ICON 3 Oct 2007.pdf
11. Toigo FBI Brief 3 Oct 2007.pdf
12. Bush IARPA Brief 3 Oct 2007.pdf
13. Teolis Summary 3 Oct 2007.pdf

To all –

On behalf of our new Chair, Dr. John S. Morgan, and our departing Chair, Ms. Karen Valenta, I would like to thank all of you who came to the second *Interagency Council for Applied Homeland Security Technology* (ICAHST) Meeting on 3 October held at the National Security Agency *Cryptologic History Museum*. In particular, we would like to thank our hosts for their hospitality and support – including Ms. Elizabeth McGuirk, Mr. Boyd Livingston, and Mr. John Hochstetler from the NSA Research Directorate and the Homeland Security Director, Mr. Larry Castro.

Thirty four Council members or alternates were in attendance from DHS, NCTC, NRO, FBI, NSA, NGA, the Department of Justice, the US Marshals Service, the US Army Space and Missile Defense Command, the Technical Support Working Group, the Office of the Director of National Intelligence, and the Virginia State Police; as well as adjunct representatives from the *Major Cities Chiefs Association*, University of Southern California / Information Sciences Institute, the Johns Hopkins University / Applied Physics Laboratory, and the *Alliance for Homeland Security Innovation* (AHSI), a joint effort of the National Center for Simulation (NCS) and the Homeland Protection Institute (HPI). The meeting was held at the UNCLASSIFIED level. For your convenience, I have attached a listing of the attendees and their contact information.

Meeting Summary

Primary discussions at this meeting included the introduction of Dr. John S. Morgan, the Deputy Director for Science and Technology at the National Institute of Justice, US Department of Justice, as the new ICAHST Chair; updates/status of the two ICAHST Working Groups (Civil Liberties and Research Agenda) – including details of ICAHST plans for the coming year; a briefing by the FBI on their SBU Mobility Pilot; a briefing on the new “Intelligence Advanced Research Projects Activity” (IARPA) organization and future technologies; a briefing of specialized personal location technology being funded by NSA; and a presentation on State and Local Law Enforcement by the Executive Director of the *Major Cities Chiefs Association*. At the conclusion of the meeting, a tour of the NSA *Cryptologic History Museum* was provided for interested Council participants.

Meeting Discussions

Ms. Valenta, the departing Chair, opened the meeting. Mr. Boyd Livingston, the NSA Research Technical Director, welcomed the ICAHST members to NSA and the *Cryptologic History Museum*. Mr. Livingston explained the role and importance of research at NSA and the Intelligence Community. He concluded with a short video highlighting research at NSA and the role of quantum computing, nanotechnology, and computer systems security in supporting the Intelligence Community and the Warfighter as well as protecting the Nation. With the large number of new participants, Ms. Valenta then asked each person to briefly introduce themselves and their organization.

ICAHST Reflections from the Chair

Ms. Karen Valenta discussed the background, objective, and scope of ICAHST as well as some next steps for ICAHST for the coming year. Ms. Valenta reiterated the importance of this body to the homeland security / counterterrorism community as well as the need for effective, continuing support from ICAHST participants. She emphasized that NCTC has gained from its participation in ICAHST and views ICAHST as an “insertion arm” for technology in the Counterterrorism / Law Enforcement / Homeland Security Community. NCTC will continue to be a key principal in ICAHST activities in the coming year.

For additional detail, please refer to the slides that accompanied the remarks by Ms. Valenta, which I have attached.

Transfer of ICAHST Chair

Ms. Valenta turned the Chair of ICAHST over to Dr. Morgan with best wishes for success in the coming year.

Dr. Morgan chaired the balance of this meeting. In his opening remarks, he explained that the National Institute of Justice (NIJ) was somewhat of a “niche” organization within the Department of Justice (DOJ) with a mission that is very much focused on State and Local law enforcement. As the research, development, and evaluation agency of DOJ, the NIJ provides objective knowledge and various tools to help solve the challenges of crime and justice, *especially* at the State and local levels. He emphasized that the basic structure and various traditions surrounding the gathering and use of information and other aspects of law enforcement support is completely different from that of the Intelligence Community. Now that we are considered to be in a “new era” (post 9/11), there is an expectation that law enforcement will respond and handle the threat of terrorism; yet – in the opinion of Dr. Morgan – this process has not been explored and completely thought out.

Dr. Morgan explained that ICAHST could play a significant role – and this is why he agreed to chair the Council – in ensuring that needed information and technology really get into the hands of state/local law enforcement and is actually used by someone at that level in their law enforcement functions such as counterterrorism. He cited the example of recent civil disasters and the lack of situational awareness to assist in public safety. This Council can play an important role in bridging the gulf between the Intelligence Community and Law Enforcement Community, and it is his intention to focus in the coming year on State/Local participation. As an indicator of this focus, he introduced Kevin W. Graham, Lead Intelligence Analyst, within the Counterterrorism Unit of the Virginia State Police, who has agreed to participate in ICAHST activities, including the Research Agenda Working Group.

Civil Liberties Working Group (CLWG) Status:

Mr. Peter Sand, DHS Privacy Office, who is co-chairing this working group with Mr. Alex Joel, the ADNI for Civil Liberties Protection in the Office of the Director of National Intelligence, gave an update on the activities of this working group. It was reiterated that this working group was charged with leveraging similar efforts underway across government in the development of an approved set of policy guidelines for research activities undertaken by ICAHST. The goal is to build a comprehensive set of privacy protection rules that would apply to a broader constituency than the ICAHST Coalition.

Mr. Sand presented the CLWG overall strategy, short term operations, long term goals, and next steps. This included privacy compliance documents that have been developed, including the *Privacy Threshold Analysis (PTA)*, and the *Privacy Impact Assessment (PIA)*, both of which I have attached. Mr. Sand also discussed the *Privacy Technology Implementation Guide*, which was published on 16 August 2007.

Additional detail, along with example forms can be found on the DHS Privacy Office website:

www.dhs.gov/privacy

Mr. Sand also announced the intention of the CLWG to work closely with the Research Agenda Working Group (RAWG). The overall strategy is to apply the structured privacy, civil rights/liberties compliance process to the operation of ICAHST RAWG projects to ensure that projects that use "*personally identifiable information*" (PII) contain the required privacy/civil liberties protections. Mr. Jim Lantzy, the RAWG Chair, fully endorses this joint effort.

Other ICAHST Council organizations are invited to join this Working Group. For your convenience, I have attached the slides that were forwarded by Mr. Sand as well as the *Privacy Technology Implementation Guide*, and the PIA and PTA templates.

Research Agenda Working Group (RAWG) Status:

Mr. James Lantzy, the NCTC Deputy Chief Technology Officer, gave a presentation on the status of this working group. He stressed that progress is being made in each of the seven working committees that he has established, including several committees that would be further briefed at this meeting. Mr. Lantzy reviewed the RAWG key focus areas which are constituted within seven committees. The committees, with the chair and purpose, are:

1. ICAHST Research Needs

Chair: Chris MacKenn, Technical Support Working Group (TSWG)

Purpose: To revisit and update/revise/prioritize the ICAHST Long Term Research Needs document published in September 2006

2. ICAHST Collaboration Environment

Chair: Herb Engle, DHS/S&T

Purpose: To develop a pilot ICAHST Collaboration Workspace/Website by expanding ongoing DHS/S&T efforts to build the "Interagency Collaboration Network" (ICON)

3. Identity Management Research

Chair: Herb Engle, DHS/S&T

Purpose: To define the problem set, explore ongoing efforts, and determine feasibility of developing a proof-of-concept pilot for Identity Management, including Entity and Relationship Resolution

4. Protected Computing Environments

Co-Chair: Blair Deem, US Marshals Service (USMS)

Co-Chair: Cynthia Coleman (NCTC)

Purpose: To define the problem set, explore ongoing efforts, and determine feasibility of developing a proof-of-concept pilot for secure and/or protected portable electronic devices to support unclassified, sensitive but unclassified (SBU), and classified voice and data

5. Analytical Tool Research

Chair: Sherry Mahafza, US Army (SMDC)

Purpose: To define the problem set, explore ongoing efforts, and determine feasibility of developing a proof-of-concept pilot or set of pilots for analytical tool research, including collaborative environments that allow information sharing and the application of analysis tools to mutual homeland security and counterterrorism problems

6. Technology Benchmarking

Chair: Jim Lantzy, NCTC

Purpose: To engage in ICAHST sponsored outreach activities including specific technology exploration visits to industry, academia, and government locations to determine applicability to mutual homeland security and counterterrorism problems

7. ICAHST Industry Day / Conference

Chair: Tom Martin, ICAHST

Purpose: To explore the concept of an ICAHST "Industry Day," and/or a periodic ICAHST Conference

It was reiterated that additional members are needed in every area and current members are free to participate in other desired committees. Other interested members can contact me to be added to the RAWG participant roster.

RAWG Committee Updates:

Specific RAWG committee updates to the Council included:

1) ICAHST Collaboration Environment

Herb Engle, DHS/S&T, and Sean Fahey, JHU/APL, presented an update on their efforts to develop the DHS *Knowledge Transition and Advancement Program* (K-TAP) project known as the "Interagency Collaboration Network" (ICON). The plan is to use the DHS ICON effort to pilot an ICAHST Collaboration Workspace/Website. Mr. Fahey reiterated the four major ICON components:

- 1) Semantic Wiki
- 2) Government R&D Ontology
- 3) Community Glossary for technology terms
- 4) A "product questionnaire" for scalable input in standard terms

He further explained how the ICON system enables the development and maintenance of a community glossary by letting all participants enter and edit definitions in a wiki.

The next step for ICAHST is to begin to post RAWG activities on the Internet using ICON. For additional detail, please refer to the slides used by Mr. Fahey, which I have attached.

2) Protected Computing Environments

Mr. Blair Deem, US Marshals Service, gave an update on this committee. He explained that they were exploring ongoing efforts and had decided to develop a joint proof-of-concept pilot with the FBI for *Sensitive But Unclassified* (SBU) information using the Blackberry device. Mr. Deem also discussed the recent successful special demonstration of an NCTC "TIDE Viewer", also using the Blackberry device. TIDE (Terrorist Identities Datamart Environment) is an NCTC database that contains classified all-source information provided by various members of the Intelligence Community. I have attached the slide used by Mr. Deem in his presentation.

With the decision to create a joint FBI / USMS pilot, this was an ideal time for Ms. Jennifer F. Toigo, the Chief of the FBI Technology Exploration and Engineering Section of the Office of the FBI Chief Technology Officer, to present a status update on the FBI SBU Mobility Pilot Project, including feedback and mission impact. Ms. Toigo explained that the overall objective of the FBI SBU Mobility Pilot was to facilitate enhanced communications among counterterrorism personnel and provide rapid wireless access to SBU data sources. Other objectives include:

- Providing federally-held terrorism information to federal, state and local counterterrorism personnel
- Demonstrating an operational state for the Information Sharing Environment (ISE)
- Determining requirements and issues such as legal, policy, and programmatic
- Providing end-users with opportunities that support ISE development
- Connecting demonstrations to current ISE efforts

Current pilot capabilities within the New York and Washington Field Offices include data, email, geolocation, and telephone capabilities as well as various National Crime Information Center (NCIC) queries including:

- NCIC Person Query
- NCIC Vehicle Inquiry
- Vehicle Registration Query
- Drivers License Query
- NLETS Messages

I have attached the slides used by Ms. Toigo for your convenience.

3) Analytical Tool Research

Committee Chair Dr. Sherry Mahafza was unable to attend this session; however – on her behalf – Mr. David Powell explained the recommended discussion topics for this committee as well as their planned approach to Mr. Lantzy, including the need to understand the roles and schedules of the other committees. I have attached the outline submitted by Dr. Mahafza.

The activities of both working groups will continue to be presented at future Council meetings for endorsement and approval.

State and Local Law Enforcement

Major Cities Chiefs Association (MCCA)

Mr. Thomas Frazier, Executive Director of the *Major Cities Chiefs Association*, gave a presentation on State and Local Law Enforcement activities from the perspective of this organization. The membership of the Major Cities Chiefs Association (MCCA) consists of the Chiefs of the sixty-four largest police departments in the United States and Canada. These cities, which are the centers of industry, transportation, education, and commerce, comprise approximately forty percent of the population of the US. The nonpartisan association serves these departments by sharing strategies, technology, and influence. MCCA also strives to assist in providing effective solutions to modern day urban problems as well as prevent and mitigate any hostile acts to its member cities or to the nation. Their website articulates their various positions on modern law enforcement issues and best practices. See:

<http://www.majorcitieschiefs.org>

Mr. Frazier noted that the process of analyzing available information and converting it into actionable intelligence for use by state and local law enforcement has not matured. The process within state/local law enforcement is considered to be “bottom-up,” whereas state/local law enforcement feels that the process for this within the Intelligence Community is “top down.” In addition, local law enforcement is hampered by some enormous data inoperability issues that need to be addressed. He cited the Joint Regional Intelligence Center (JRIC) in Los Angeles as an outstanding example of good work. In particular, they have “terrorism liaison officers” who are excellent in the development of requirements and have already proven themselves by – in an example case – submitting information from a local firefighter that resulted in an active FBI case. Mr. Frazier – himself a former Police Chief – suggested that this process needs to be harnessed and implemented.

Mr. Frazier has accepted the invitation to participate in future ICAHST activities, including the Research Agenda Working Group.

Intelligence Advanced Research Project Activity (IARPA)

Incisive Analysis Research

Dr. Rita M. Bush, Office of the Director of National Intelligence (ODNI), gave a presentation describing the new *Intelligence Advanced Research Projects Activity* (IARPA) organization within the ODNI. She explained that IARPA is an independent ODNI activity reporting to the Assistant Director of National Intelligence for Science and Technology which encompasses the ODNI

Disruptive Technology Office (DTO), the CIA Intelligence Technology Innovations Center (ITIC), and the NGA National Technology Alliance. She continued with the role and specific mission of IARPA and then provided details of several current research activities, including:

- Advanced Question Answering for Intelligence (AQUAINT) //Find the information that is related to your topic and context//
- Video Analysis for Content Extraction (VACE) //Move Motion Imagery into All-Source Analysis//
- Informedia //Fusion of Multilingual, Multi-INT sources//
- VideoQuest //Aerial Videos in Context//
- ProActive Intelligence (PAINT) //Improving Decision-making through Proactive Intelligence//
- Analyst Space for Exploitation (A-SpaceX) //Eliminating the barriers between users and between users and information//
- GeoTime //Visualization of complex data in space and time//
- Tangram //A continuously-operating counterterrorism surveillance and warning system//
- Collaboration and Analyst/System Effectiveness (CASE) //Information Sharing through Tacit Collaboration//
- tag|Connect //Social Bookmarking for the Intelligence Community//
- Polestar //Integrated Knowledge Management and Collaboration//

Dr. Bush also mentioned that a revision of the National Intelligence Community Enterprise Cyber Assurance Program (NICECAP) BAA (AFRL BAA-06-11-IFKA) for privacy protection technologies proposals has been released. This BAA is available at:

<http://tinyurl.com/yw7k9s>

For your convenience, I have attached the slides that were used by Dr. Bush.

NSA Funded Technology:

TRX Systems: Personal Location Technology

Dr. Carole Teolis and Mr. Ben Funk, TRX Systems were invited by NSA/Research to brief the tracking and status system developed by their company. The system, which has received funding from NSA and is known as "TRX Sentinel," is a portable approach to tracking personnel in GPS denied environments, providing improved situational awareness. This is accomplished from a remote laptop computer by a capability that allows wireless monitoring of both inside and outside of structures in a given location.

Due to time constraints at this meeting as well as expressed interest in the technology, it was agreed that Dr. Teolis would brief and demo this application at one of the next RAWG meetings.

I have attached some additional information on this product.

Next Meeting

We anticipate that future Council meetings will occur on a quarterly basis, with the various working groups and committees meeting as frequently as required. Council meetings will be held at the Unclassified level at various locations to be determined. The Council plans to meet next in January 2008. 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 Agent

Interagency Council for Applied Homeland Security Technology