

Homeland Security S&T Summit (South Central)

Arkansas-Louisiana-New Mexico-Oklahoma-Texas

Topic: The Role of S&T in Border Security

Title: S&T in the Border Environment

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Date: 10 February 2010



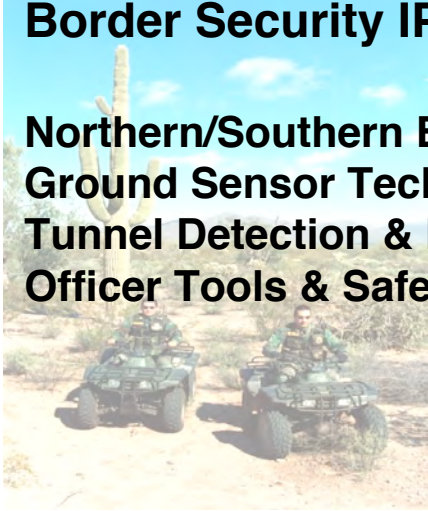
**Homeland
Security**

Border and Maritime Security Division

Areas of Focus

Border Security IPT

Northern/Southern Border Testbeds
Ground Sensor Technologies
Tunnel Detection & Monitoring
Officer Tools & Safety



Maritime Security IPT

Open Water
Port & Coastal
Inland Waterways
Command Center/
Port Security Testbed



**Borders &
Maritime
Security
Division**

Cargo Security IPT

Screening
Scanning
Supply Chain Security



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Border Network (BorderNet)

Product Description

- Provide in-the-field capability to improve agent mission effectiveness and safety
 - Geo-spatial situational awareness
 - Biographic/biometric detainee background checks
 - Multi-sensor integration
 - Wireless connectivity
- Provide test platform for evaluation of sensor technologies in an operational environmental

Customers

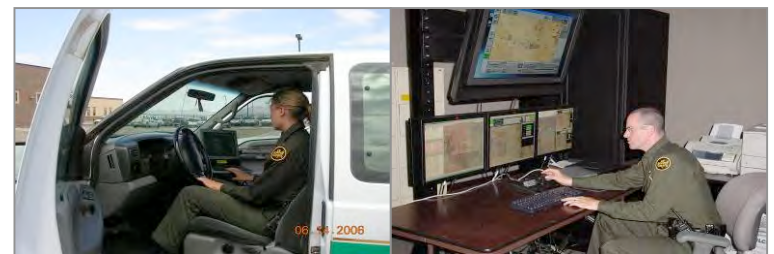
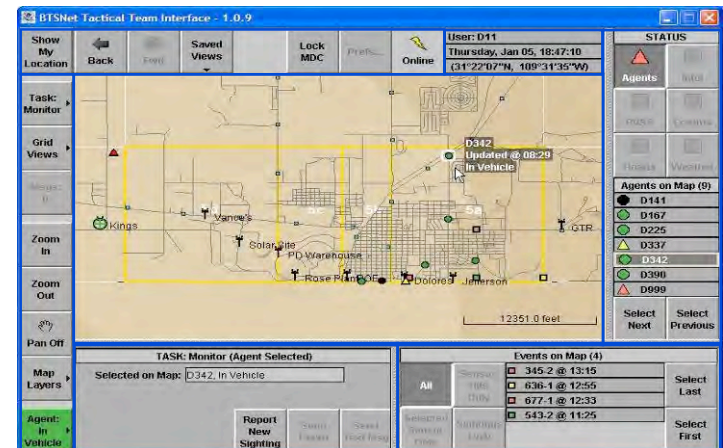
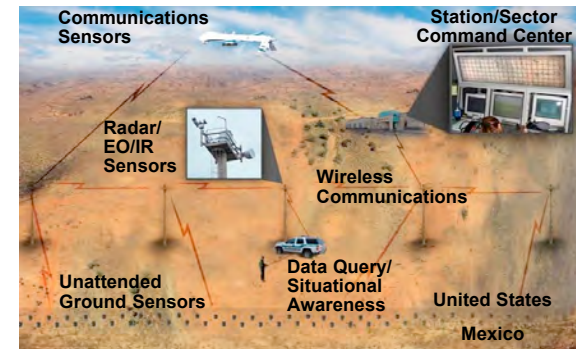
- CBP / Office of Border Patrol

Deliverable

- Providing interim operational capability at US Border Patrol Station, Douglas AZ
- Transitioned P25-radio based GPS blue force tracking
- Transitioned mobile enrollment capability

Status and Future Plans

- Maintaining capability as a test bed



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Electronic Chain of Custody Device

- Product Description
 - Developed to globally operable communications tracking tag for transmitting information (e.g. security alerts) from a Container Security Device (CSD), Advance Container Security Device, or Marine Hybrid Composite Container
- Customers
 - Customs and Border Protection
 - DHS Cargo, Maritime & Trade Policy
 - United States Coast Guard
 - Transportation Security Administration
- Requirements
 - Reliable and secure global alerting and tracking
 - Seamless security data transition between industry and DHS systems
 - Comply with international laws and regulations
 - Operate in harsh global supply chain environment
- Deliverable
 - Validated Technical Requirements Document
 - Possibility exists to use Electronic Chain of Custody Devices for disaster management operations



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Real Time Image Transmission

Mobile Automated Document Verification (ADV) Solution



Mobile Unit



Sample Display

Project Description:

- *Problem:* Field officers are unable to determine the authenticity of personal identity documents.
- *Need:* Connect field officers to experts at the ICE Forensic Documentation Laboratory (FDL) for help.
- *Approach:* Transmit high resolution documents to FDL
- *Challenge:* Portable, ruggedized high definition scanners that can detect security features, communications link capable of transmitting images.
- *Deliverable:* Prototype Technology, Engineering Specifications

Homeland Security Payoff:

- Ability to:
 - Authenticate personal identity documents
 - Send/receive images of photos & documents to/from field operators
 - Review image of document in question while talking to the field agent/investigator
 - Decentralize some FDL services
- Customers: ICE (primary), USSS, CBP, Military
- TTA Status: Preliminary Draft

Status:

- Successfully demonstrated advanced prototype to ICE (4QFY09)
- Next step - Deploy prototype Mobile Automated Document Verification system to operational venues to refine capabilities and features (3QFY10)



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Summary: Opportunities exist to develop technologies that satisfy DHS requirements as well as State, Local and Tribal needs

Take-Aways:

- Common and/or overlapping mission areas and operational requirements
 - _ Detection, Surveillance, Deterrence, Interdiction, and Apprehension
- Efficiency, effectiveness and safety are paramount concerns
- Technologies being developed for DHS may be relevant in your environment





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