

Western Hemisphere Travel Initiative (WHTI)

Identity and Security at the Border

Smart Card Alliance Annual Conference, 2009
Track A22: Citizen and Government ID Applications and Usage Models



U.S. Customs and Border Protection

Paul Hunter
May 6, 2009

Topics

- Current Challenges at the Land Border
- What is WHTI? [a Technical Perspective]
- WHTI Installation Progress
- What are the Vulnerabilities Today?
- CBP Officer Perspective of WHTI (4 minute video)
- What is a WHTI RFID Enabled Travel Document?
- Next Generation RFID Documents at the Land Border
- WHTI Travel Document Issuance and Plans
- How will RFID Work at Land Borders?
- What about Privacy?
- Questions?



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Current Challenges at the Land Border

- Working Environment
- Multiple Modes of Transportation
- No Advance Information on Travelers
- Facilities Infrastructure
- Technical Infrastructure
- Political Environment
- Human Capital
- Weather
- Documents



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What is WHTI? [a technical perspective]



Yesterday



June 2009

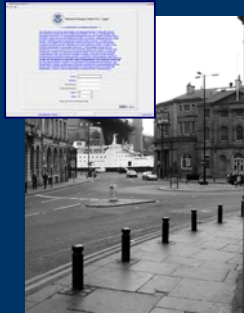
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What is WHTI?



Yesterday



June 2009

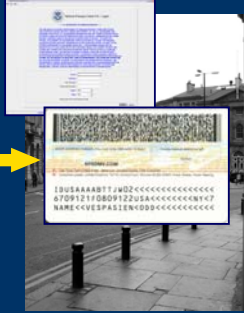
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What is WHTI?



Yesterday



June 2009

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What is WHTI?

Yesterday

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What is WHTI?

...and the 'bridge' has to fit within existing infrastructure...

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WHTI Installation Progress

- Database: 100% complete
- Network: 74% complete
- Workstation upgrades: 97% complete
- Lane Infrastructure: 87% complete

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What are the Vulnerabilities Today?



WHTI addresses the vulnerabilities of multiple documents, which result in the challenge of verifying identity and citizenship.



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What are the Vulnerabilities Today?



WHTI addresses the vulnerabilities of multiple documents, which result in the challenge of verifying identity and citizenship.

Standardization will address that vulnerability and improve efficiencies....



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CBP Officer Perspective of WHTI

4 minute video



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What is a WHTI RFID Enabled Travel Document?

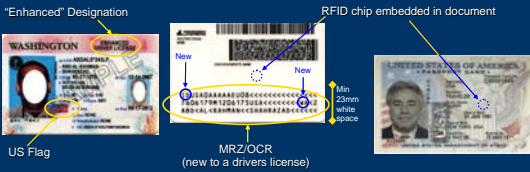
- Passport Card or *US State* issued Drivers License or Identity Card that denotes both Identity and United States Citizenship
- Also Issued by Provinces/Territories of *Canada* to denote identity and Canadian Citizenship
- Incorporates a Machine Readable Zone (MRZ) that can be read by CBP readers using Optical Character Recognition (OCR)
- Contains a Generation 2 Radio Frequency Identification (RFID) chip (or tag) for use by CBP RFID readers **at land borders**
- RFID tag technology is 'Passive' (no battery power needed), 'Vicinity' (can be read up to 30 feet)



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What is a WHTI RFID Enabled Travel Document?



Enhance Drivers License/Passport Card = Identity and Citizenship

- Meets minimum security standards
- Facilitative technology (MRZ/OCR & RFID)
- Uniform processing & method of validation for CBP Officers
- **Use at land and sea border crossings only**



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Next Generation RFID Documents at the Land Border

- Documents issued in a secure process and contain vicinity RFID technology and an MRZ.
- Next generation documents include:
 - ✓ US Passport Card
 - ✓ Enhanced Driver's License
 - ✓ Trusted Traveler Card (NEXUS, SENTRI, FAST)
 - ✓ Border Crossing Card
 - ✓ Legal Permanent Resident Card
 - ✓ Enhanced Tribal Card



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WHTI Travel Document Issuance



Document Type	Documents Issued *
Passport Card	1,000,000+
NEXUS, SENTRI, FAST	512,000+
Border Crossing Card	160,000+
Washington State EDL	51,000+
New York State EDL	50,000+
Vermont EDL (started 2/2009)	1,100+
British Columbia (pilot)	435



* Current to April 24, 2009

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WHTI Travel Documents *Upcoming Plans*



- Michigan to expand card issuance Spring, 2009
- In late May, 2009 CBSA will begin data share for:
 - Manitoba
 - Ontario
 - Quebec
 - British Columbia
- Legal Permanent Resident Card production Summer, 2009
- Native American Indian Tribal document discussions underway



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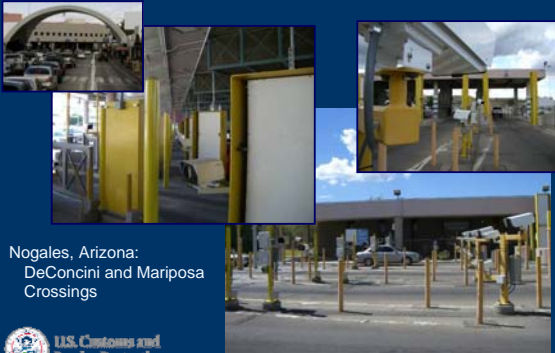
How will RFID Work at Land Borders?



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How will RFID Work at Land Borders?



Nogales, Arizona:
DeConcini and Mariposa
Crossings



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How will RFID Work at Land Borders?



Blaine, Washington:
Pacific Highway and Peace Arch
Crossings



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What About Privacy?

- Only a number on the RFID chip, no personally identifiable information (PII) stored in the tag
- PII stored in secure databases transmitted over secure networks
- Attenuation sleeve issued with all RFID enabled travel documents
- Presentation of photo to CBP Officer from secure databases reduces risk of cloned tags being used successfully at land borders
- Implementation of a Unique Tag Identifier (TID) will virtually eliminate successful use of cloned tags



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Questions?

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Our Mission

We are the guardians of our Nation's borders.

We are America's frontline.

We safeguard the American homeland at and beyond our borders.

We protect the American public against terrorists and the instruments of terror.
We steadfastly enforce the laws of the United States while fostering our nation's
economic security through lawful international trade and travel.

We serve the American public with vigilance, integrity and professionalism.
