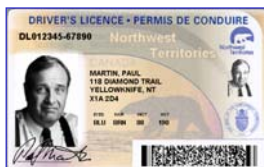


Driver Licence Documents Are they secure enough?



Ian Williams
Principal

Identity Systems Group Inc.

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Driver Licence Security

Presentation Format

1. Why are DL/ID's so important
2. DL/ID Definition
3. North American Structure
4. AAMVA & CCMTA Improvements
5. Identification Process
 - Enrolment
 - Document Security
 - Verification
6. DL/ID Tools
7. DL/ID Threats
8. DL/ID Security
 - CLOSD
 - Future
 - Conclusions



Who am I?

Driver Licence Security



DL/ID Documents

Why are Driver Licences so Important

DL/ID most common form of government issued ID

Used for banking, shopping & enrolment to other ID programs (passport)

Evolved as the defacto National ID in Canada & the US

594 Million North American airline passengers in 2004¹

485+ Million passengers will present a document issued by their DMV

The DL is the most widely used ID for domestic air travel in North America



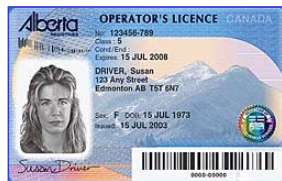
¹US DOT Bureau of Statistics 2004

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DL/ID – Definition

Driver's Licence Identification Document



Driver's Licence



State ID Card

All citizens older than 16 years old (in some cases younger) must visit DMV's if they want a drivers license or a government issued identification card. **DMV's are the only authorized issuers.** More than 250 million U.S and Canadian citizens have either a drivers license or DMV issued ID card, representing 75 percent of the total population." ¹

¹ - AAMVA Special Task Force on Identification Security



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North American Structure

AAMVA – American Assoc. Motor Vehicle Administrators

CCMTA – Canadian Council Motor Transport Administrators



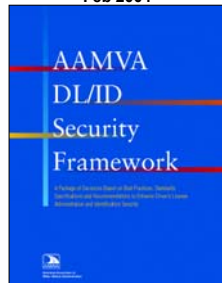
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Improvements

AAMVA – DL/ID Security Framework

CCMTA – D&V Standing Committee / IRE

Feb 2004



May 2004



Methods, policies & procedures to improve the Identification Process

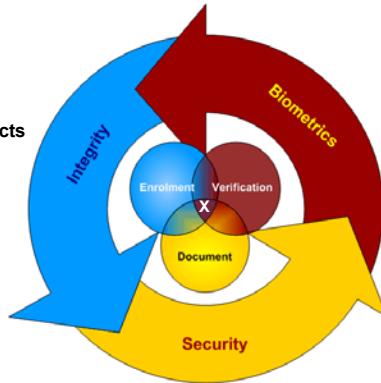


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Identification Process

Three Primary Aspects

1. Enrolment
2. Document
3. Verification



Methods of Improvement

1. Integrity
2. Security
3. Biometrics

Identification is not a technology. It is a multi-layered approach to either validating a claim or proving a denial.



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ID Process - Enrolment

Establishment of the true Foundation Identity

Three Questions must be answered:

1. Who are you? (refers to who you claim to be NOW)
2. Are you the same person that was born with this identity?
3. Are you anyone else?

This is the No. 1 issue in all government ID programs today

Breeder Documents



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ID Process - Enrolment

Establishment of the true Foundation Identity

AAMVA & CCMTA Response

FDR – Fraudulent Document Recognition

FDR – Technology

CCMTA – InterProvincial Records Exchange

AAMVA – SSOLV (Social Security)

Breeder Documents



Until the issues surrounding “breeder documents” are addressed there exists the potential for increased risk by issuance of trusted documents that will enrol and validate a false identity, and possibly place undue trust in this false identity.



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ID Process - Document

Issuance of a secure credential

The Document must resist:

Modifeiting - altered from original appearance at time of production by the Issuing Authority.

Genuifeiting - A reproduction using genuine materials.

Counterfeiting - Originally produced documents from other than an Issuing Authority

Better Documents



Spending monies on document security without balancing the other two factors of Enrolment & Verification actually decreases program integrity. Since the card is held in such high regard, it falsely elevates the perception that the overall ID System is secure.



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ID Process - Document

Issuance of a secure credential

Issuance Process must be secure:

Central Issuance - Increasing

Criminal checks – Personnel must be cleared

Auditing – Needs for improvement

Fraud & Corruption – Reaches the highest level



SYMPOSIUM TO ADDRESS
PROLIFERATION OF FAKE IDs
By SECRETARY OF STATE GEORGE H. RYAN

Last year, the Secretary of State's office used a two pronged approach — the hologrammed driver's license and Operation Straight ID — to crack down on underage drivers possessing fictitious and fraudulent Illinois licenses and identification cards.

The high-security license features a two-sided hologram that makes the document virtually tamper proof. Operation Straight ID is designed to help local authorities do a better job of spotting and confiscating fake licenses and IDs.

Driver License Scam - Illinois Governor Indicted

By Christopher Willits / Associated Press

SPRINGFIELD, Ill. — Dec 17, 2003 - First came allegations that low-level clerks were selling truck driver's licenses to unqualified people — applicants who couldn't speak English, who supplied fake addresses and who passed the test only because they had been given the answers.

Since then, the burgeoning scandal has moved ever closer to one man: Gov. George Ryan.

Federal prosecutors have charged 29 people and have gotten guilty pleas from 17 of them in connection with the driver's license program, which was under Ryan's authority when he was Illinois secretary of state from 1991 until he was elected governor in 1998. Investigators say that the license-for-sale scheme funneled at least \$150,000 into Ryan's campaign fund.



The design of a DL/ID application must be such that it is virtually impossible to internally produce bogus driver licences. Penalties for corruption & fraud must be increased to deter internal breaches of trust.



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ID Process - Verification

Three factor Verification

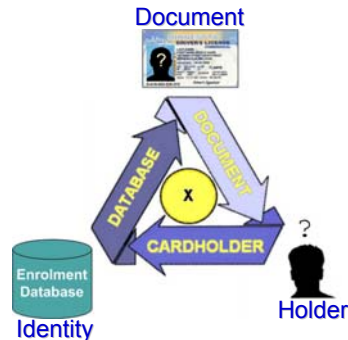
Verification of the DL & the Identity

Identity – Legitimate (as enrolled)

Document – Authentic & valid

Holder – Authorized entity

Biometrics are a useful tool for performing verification. They can also help reduce duplicate enrollees. 1:1 biometric comparisons tie the document to the cardholder. Digital signatures, securely encrypted within the DL can provide the document authenticity.



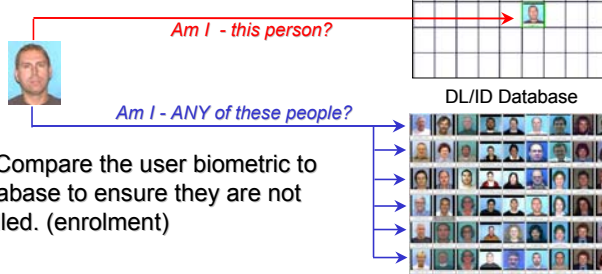
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ID Process - Verification

Using Biometrics in DL/ID

Verification – Match the user biometric to a single claimed identity. (renewal / re-issuance)



Identification – Compare the user biometric to all others in database to ensure they are not previously enrolled. (enrolment)

DL/ID requires biometric that can perform BOTH verification & identification



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DL/ID Tools

Interprovincial Record Exchange

Managed by CCMTA (Ottawa)

Validity – Check of DL/ID status

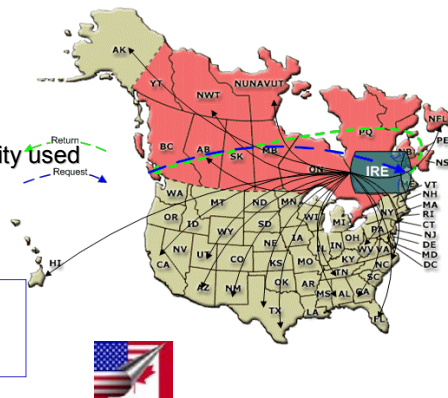
Phantom – Ensure identity exists

Duplicates – Ensure only single identity used

IRE undergoing study for digital image inclusion.

The IRE allows Canadian jurisdictions to search all Canada and USA.

USA jurisdictions can search Canada but not search other states?????

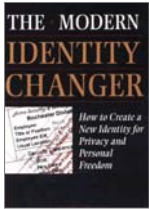
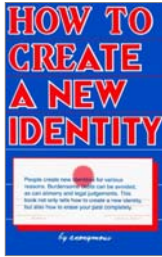


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DL/ID Threats

How easy is it really?



How to Make Driver's Licenses and Other ID on Your Home Computer



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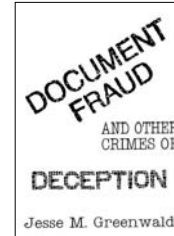
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Driver Licence Security

DL/ID Security

Common Level One Security Device

- AAMVA Industry initiated idea (CLOSD)
- Clear hologram or foil
- Awarded to DLR (Opsec later)
- AAMVA requests all jurisdictions to conform
- Suggested as the uniform identifier
- Single point of (potential) compromise

The use of a single security device that is distributed to potentially thousands of locations and handlers is the biggest threat yet facing the establishment of a secure DL/ID.



Common Level One Security Device



Jurisdictions may choose to forego adoption of this AAMVA requirement.



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DL/ID Security

Future

- 9 CDN jurisdictions to replace DL in 18 mo's.
- Shift from IT vendor to security printers.
- ID Process adoption in Canada.
- US Jurisdictions slowly improving.
- Shift from OTC to central increasing.



As a result of recent legislative, policy and AAMVA recommendations, all US & Canadian jurisdictions are reviewing current systems for compliance.

In 2006 US & Canadian DL/ID Market is valued at C\$595 million



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DL/ID Security

Conclusions

- DL/ID security is drastically improving in Canada & US.
- Certain new initiatives need to be reviewed for applicability (CLOSD).
- DL/ID is the defacto National ID.
- Same issues as other ID programs surrounding foundation ID.
- Canadian documents further advanced.
- CCMTA positioned as key stakeholder in national identity needs.



The use of a driver licence as an identification document is no more risk than that of other forms of government issued ID, and in future may prove to be more secure.



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Get more info here:

www.idsysgroup.com

Biometric Technology Resource Centre

Document Security Resource Centre



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