Mobile Driver License (mDL)

June 20, 2017

Geoff Slagle – Director, Identity Management
AAMVA
<table>
<thead>
<tr>
<th>Committees</th>
<th>mDL</th>
<th>Requirements</th>
<th>Scope</th>
<th>Concepts</th>
<th>Initiatives</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDS Committee &amp; eID WG</td>
<td>What is a mDL?</td>
<td>Functional requirements</td>
<td>mDL Scope</td>
<td>Solution concepts</td>
<td>Initiatives (including AAMVA/RDW Proof of Concept)</td>
</tr>
</tbody>
</table>
Joint initiative between:

• Card Design Standard Committee
  • Interoperability (including DLs)
  • Representing jurisdictional views to other stakeholders (e.g. standards organizations)

• eID WG
  • Standards for electronic identity
  • mDL a first manifestation

AAMVA mDL White Paper (functional needs/requirements)
• A driver’s license stored on or accessed via a device such as a smart phone or tablet

• One-function wearables (e.g. to prove age) are being discussed
Functional requirements

- Confirm the mDL holder’s identity
- Convey driving privileges
- Work off-line
- Be trusted
- Work across jurisdictions
- Support selective information release (by mDL holder)
- Support remote management (by jurisdiction)
- Easy to use
- Acceptable processing time
- Unattended verification
Use case examples

- TSA
  - 600 million + verification actions per year
- Road stop
  - 26 million + verification actions per year
- Age verification for alcohol purchases
  - 400 million + verification actions per year
- Car rental
- Identification to receive social services
- Hotel check-in
- Identification for financial services
Traditional DL good for:

- Proving identity
- Proving age
- Proving address
- Conveying driving privileges
mDL additionally good for:

- Data minimization, mDL holder control
- Improved data freshness
- Improved data accuracy
- Unattended use
- “Coolness”
Solution concepts

Issuing Authority

Verifying Entity

Reader & infrastructure

mDL

Committees mDL Requirements Scope Concepts Initiatives

Safe Drivers · Safe Vehicles · Secure Identities · Saving Lives
Areas of standardization

Issuing Authority

1. mDL

2. Reader & infrastructure

3. Verifying Entity

Committees mDL Requirements Scope Concepts Initiatives

Safe Drivers · Safe Vehicles · Secure Identities · Saving Lives
Solution concepts

- Location of data
  - “Container on a phone”
  - “Get PII from the source”
- Attended vs. Unattended
- Data exchange protocol
- Trust model
“Container on phone”

- Data stored on device in a secure container
- Container security up to the Issuing Authority
- Reader verifies data authenticity using IA’s public certificate
- Also referred to as the “offline” model
Data always retrieved from IA; always current

No PII on mDL itself

Secure tokens used to convey mDL holder’s consent to release information to requestor

Real-time connection to IA required (i.e. no offline option) (hence also referred to as the “online” model)

IA to maintain a 24/7 real-time interface
### Attended vs. Unattended

<table>
<thead>
<tr>
<th>Attended: Portrait image ties mDL holder to mDL</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Standard approach with physical card</td>
</tr>
<tr>
<td>• Comparison typically performed by a human</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unattended: Something mDL holder has/knows/is</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Need first identified by Japan for vending machine use</td>
</tr>
<tr>
<td>• Would allow online use of mDL to confirm identity</td>
</tr>
</tbody>
</table>

### Committees | mDL | Requirements | Scope | Concepts | Initiatives
• Crucial for mDL holder to know who is reading mDL
  • Tap
  • Show barcode on device
• Subsequent exchange of information via:
  • Barcode
  • Bluetooth
  • NFC
• Somewhere in the process, mDL holder explicitly identifies information to be shared
<table>
<thead>
<tr>
<th>Committees</th>
<th>mDL</th>
<th>Requirements</th>
<th>Scope</th>
<th>Concepts</th>
<th>Initiatives</th>
</tr>
</thead>
</table>

- Iowa pilot, RFP
- VA pilot
- Studies by other states
- DVLA (UK)
- Trafi (Finland)
- ICAO
- Vendor solutions
- AAMVA/RDW proof of concept
• Based on AAMVA White Paper
• Focus on mDL / reader interaction
• Free participation
• Goal: Enable an issuing authority to explore mDL/reader interaction operationally
• Limitations:
  • Does not cover reader / issuing authority interaction
  • Supports 100s of mDL holders, not 1,000s
  • No actual PII allowed (other than image)
Geoff Slagle – gslagle@aamva.org
703.342.7459

Loffie Jordaan – ljordaan@aamva.org
919.789.1110