



SECURE
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Challenges to the mDL Ecosystem

Identity Council Webinar
October 28, 2020

Introductions



- Randy Vanderhoof, Secure Technology Alliance

Who We Are

The Secure Technology Alliance is a not-for-profit, multi-industry association working to stimulate the understanding, adoption and widespread application of secure solutions.

We provide, in a collaborative, member-driven environment, education and information on how smart cards, embedded chip technology, and related hardware and software can be adopted across all markets in the United States.

Our Focus

- Access Control
- Authentication
- Healthcare
- Identity Management
- Internet of Things
- Mobile
- Payments
- Transportation

What We Do

- ❖ Bring together stakeholders to effectively collaborate on promoting secure solutions technology and addressing industry challenges
- ❖ Publish white papers, webinars, workshops, newsletters, position papers and web content
- ❖ Create conferences and events that focus on specific markets and technology
- ❖ Offer education programs, training and industry certifications
- ❖ Provide networking opportunities for professionals to share ideas and knowledge
- ❖ Produce strong industry communications through public relations, web resources and social media

Identity Council

”...Serves as a focal point for Alliance’s identity and identity related efforts leveraging embedded chip technology and privacy- and security-enhancing software... Supports a spectrum of physical and logical use cases and applications, form factors, attributes, and authentication and authorization methods.”

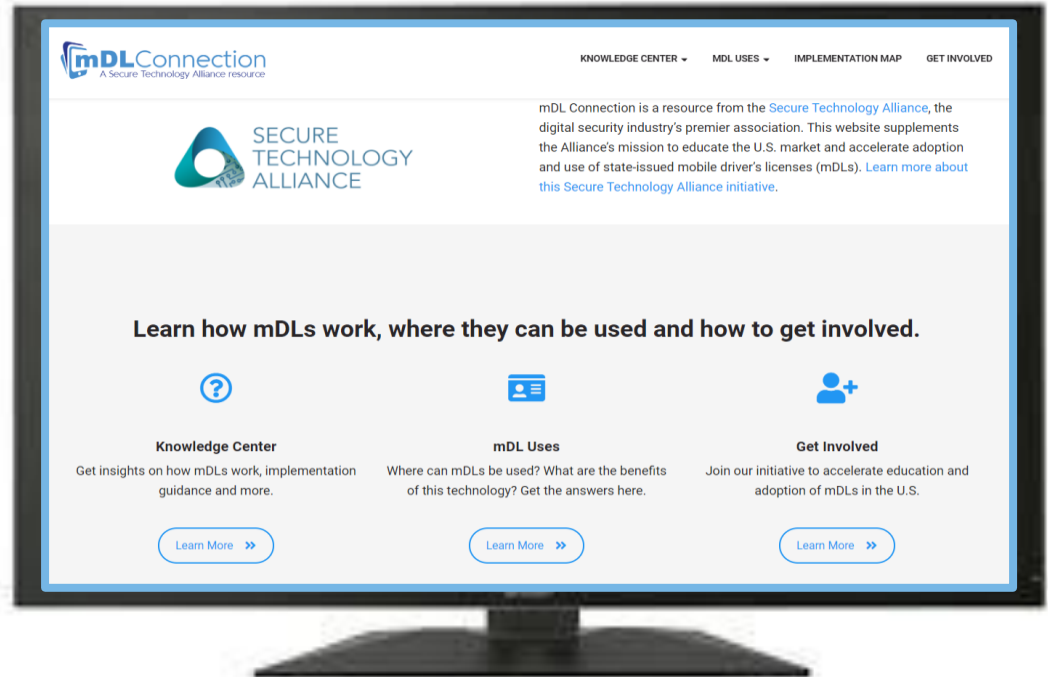
COUNCIL RESOURCES

- [Assurance Levels Overview and Recommendations](#)
- [FICAM in Brief: A Smart Card Alliance Summary of the Federal Identity, Credential, and Access Management \(FICAM\) Roadmap and Implementation Guidance](#)
- [Identifiers and Authentication – Smart Credential Choices to Protect Digital Identity](#)
- [Identity Management in Healthcare](#)
- [Identity Management Systems, Smart Cards and Privacy](#)
- [Interoperable Identity Credentials for the Air Transport Industry](#)
- [Identity on a Mobile Device: Mobile Driver’s License and Derived Credential Use Cases](#)
- [The Mobile Driver’s License and Ecosystem](#)
- [Smart Card Technology and the FIDO Protocols](#)

mDL - A Secure Technology Alliance Member Initiative



- Industry driven
- Education focused
- White papers, FAQs
- Online resources
 - Knowledge Center
 - mDL Uses
 - Implementation Map
- How to get involved



www.mdlconnection.com

Webinar Panelists



- Randy Vanderhoof, Secure Technology Alliance
- David Kelts, GET Group North America
- Mindy Stephens, AAMVA
- Loffie Jordaan, AAMVA
- Arjan Geluk, UL
- Tom Lockwood, NextgenID





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The Mobile Driver's License (mDL) Ecosystem

October 28, 2020, **David Kelts**, *GET Group North America*

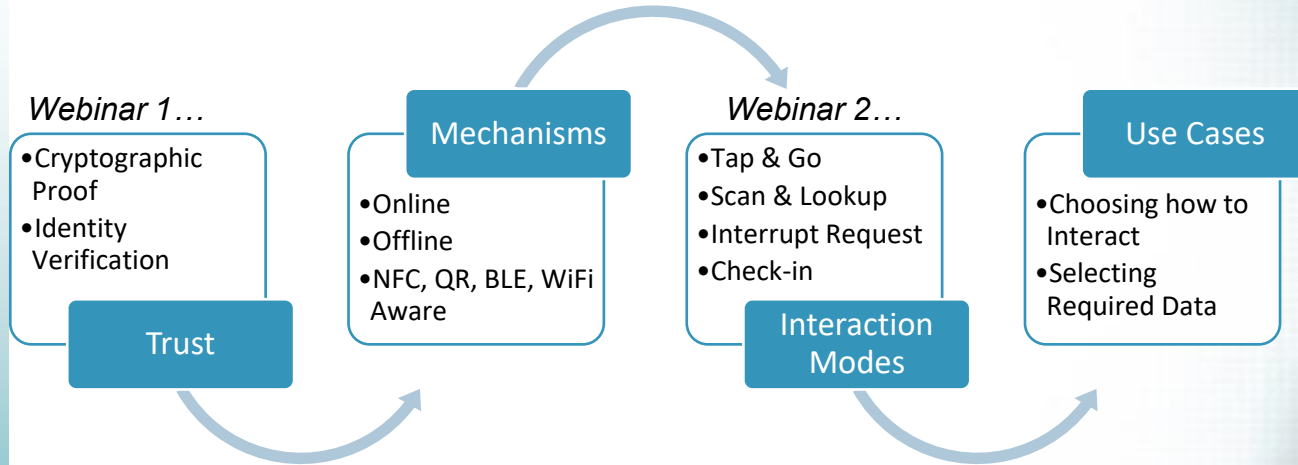


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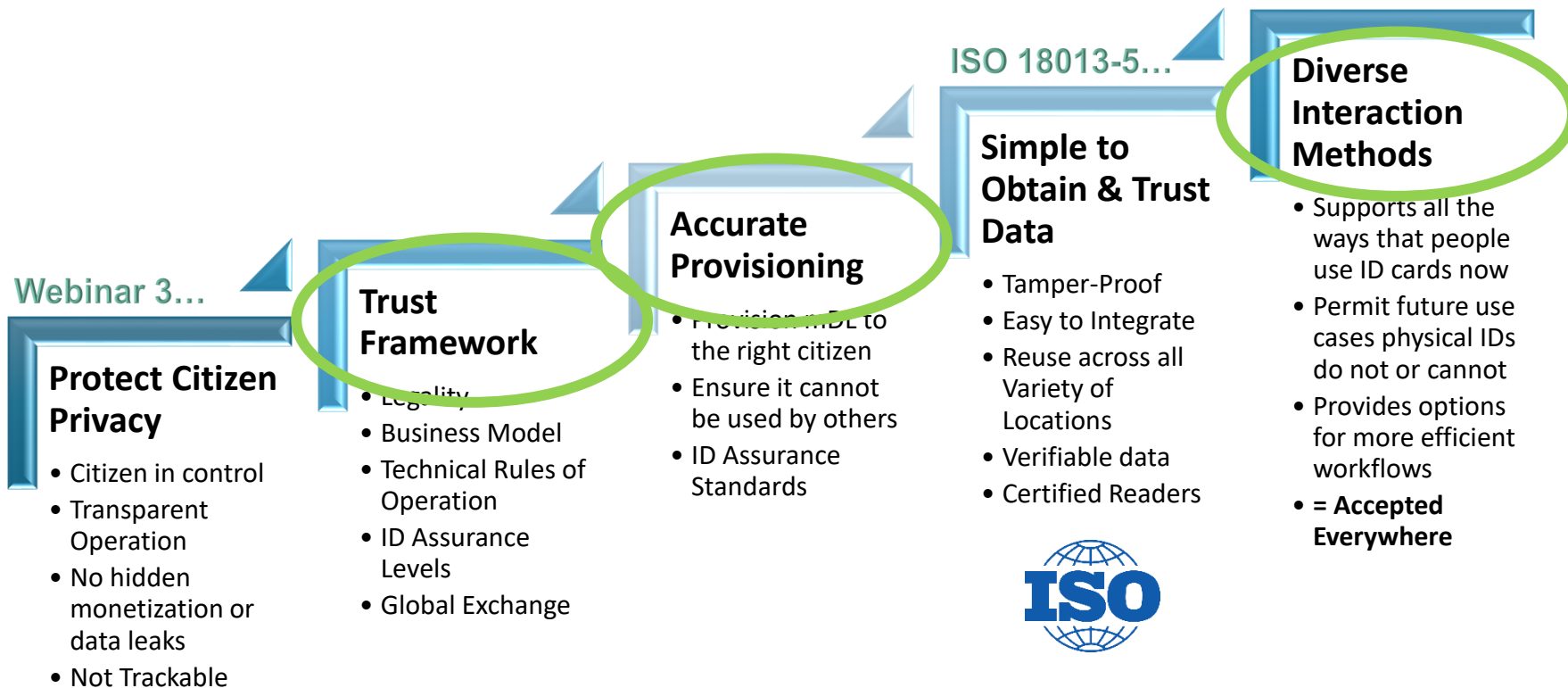
Trust creates the Context of this “Challenges” Webinar



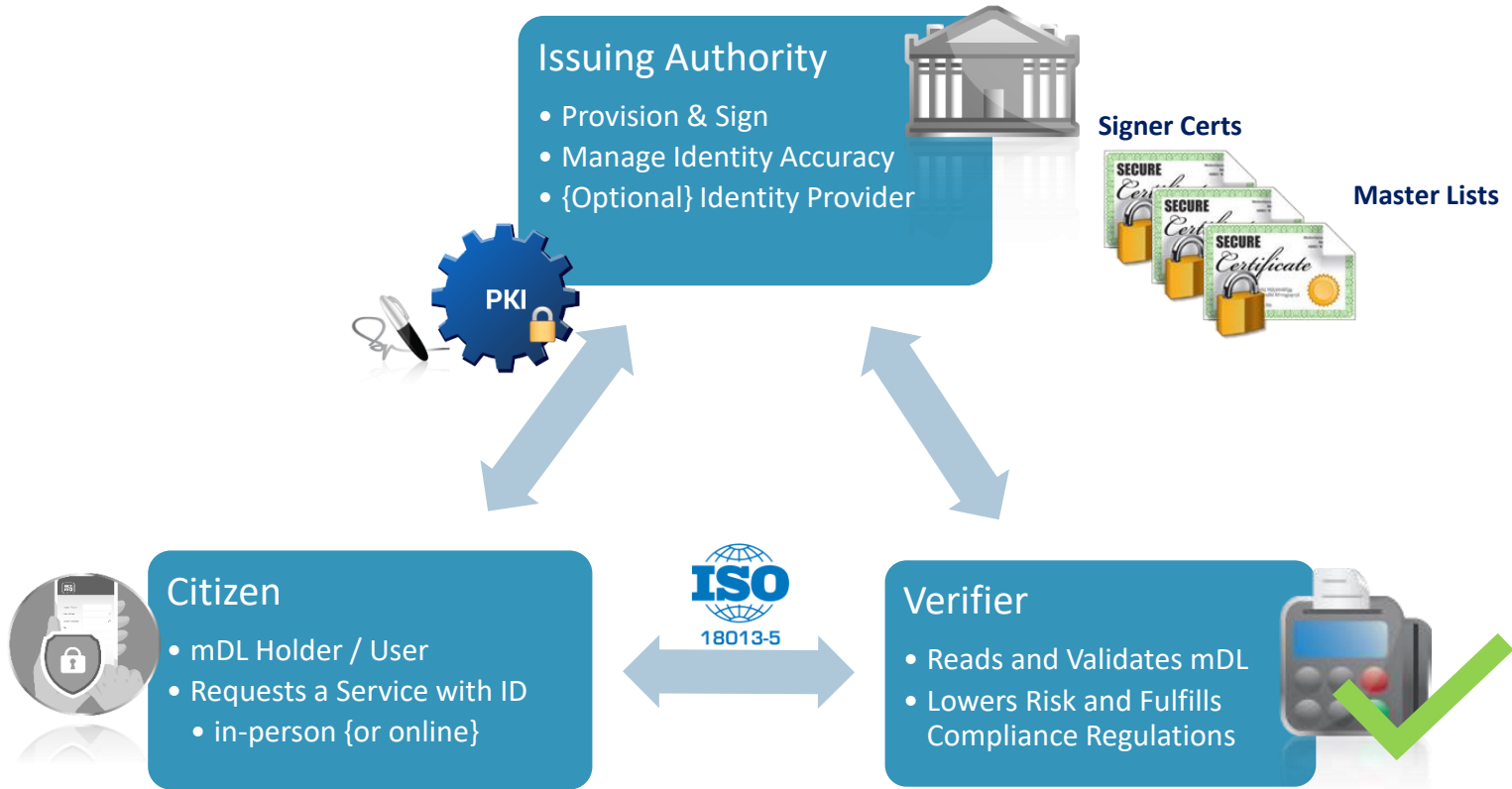
Webinars 1-3: Mobile Driver's License, Trust & Uses



How do we build trust for widespread mobile identity?



Trust Mechanisms - ISO 18013-5 mDL & mID





American Association of
Motor Vehicle Administrators

Verifier Assurance

October 28th, 2020

OUR VISION

Safe drivers

Safe vehicles

Secure identities

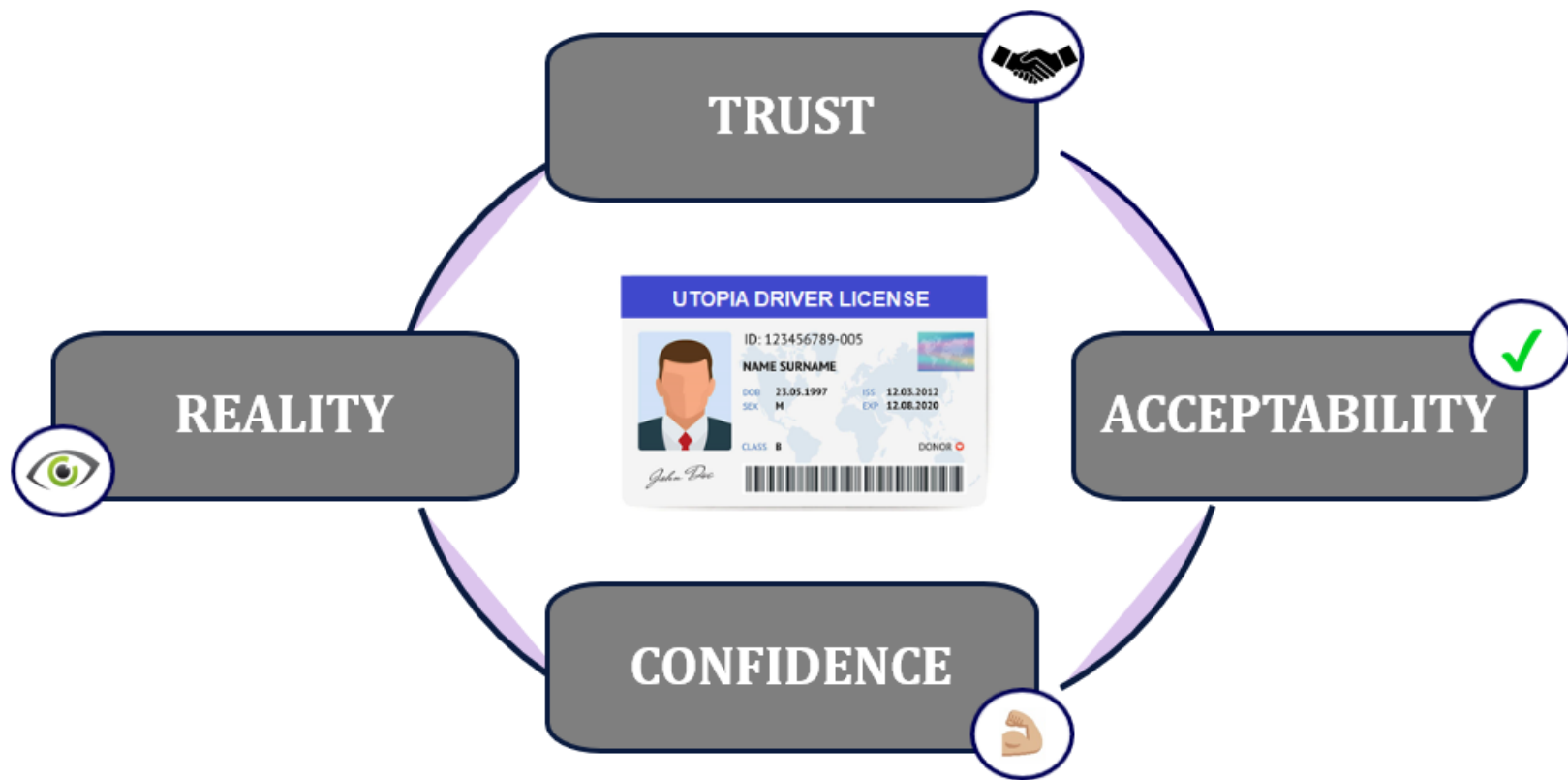
Saving lives!

- Existing trust model (physical credentials)
 - Confidence/Trust in Issuing Authorities
 - REAL ID Standards for Vetting and Proofing
- Vision for Mobile Driver License
 - Continued confidence/trust in Issuing Authorities
 - Provisioning Guidelines for Issuing Authorities
 - Trust model



Trust Model for Physical Credentials







Published 2008

Establishes minimum standards for state issued DLs/IDs to be used for federal ID purposes



Compliance

Date pushed out one year for states to Oct 1st, 2021



Requirements

Minimum documentation requirements and issuance standards



Non-REAL ID

Issuing Authorities still offer other types of credentials

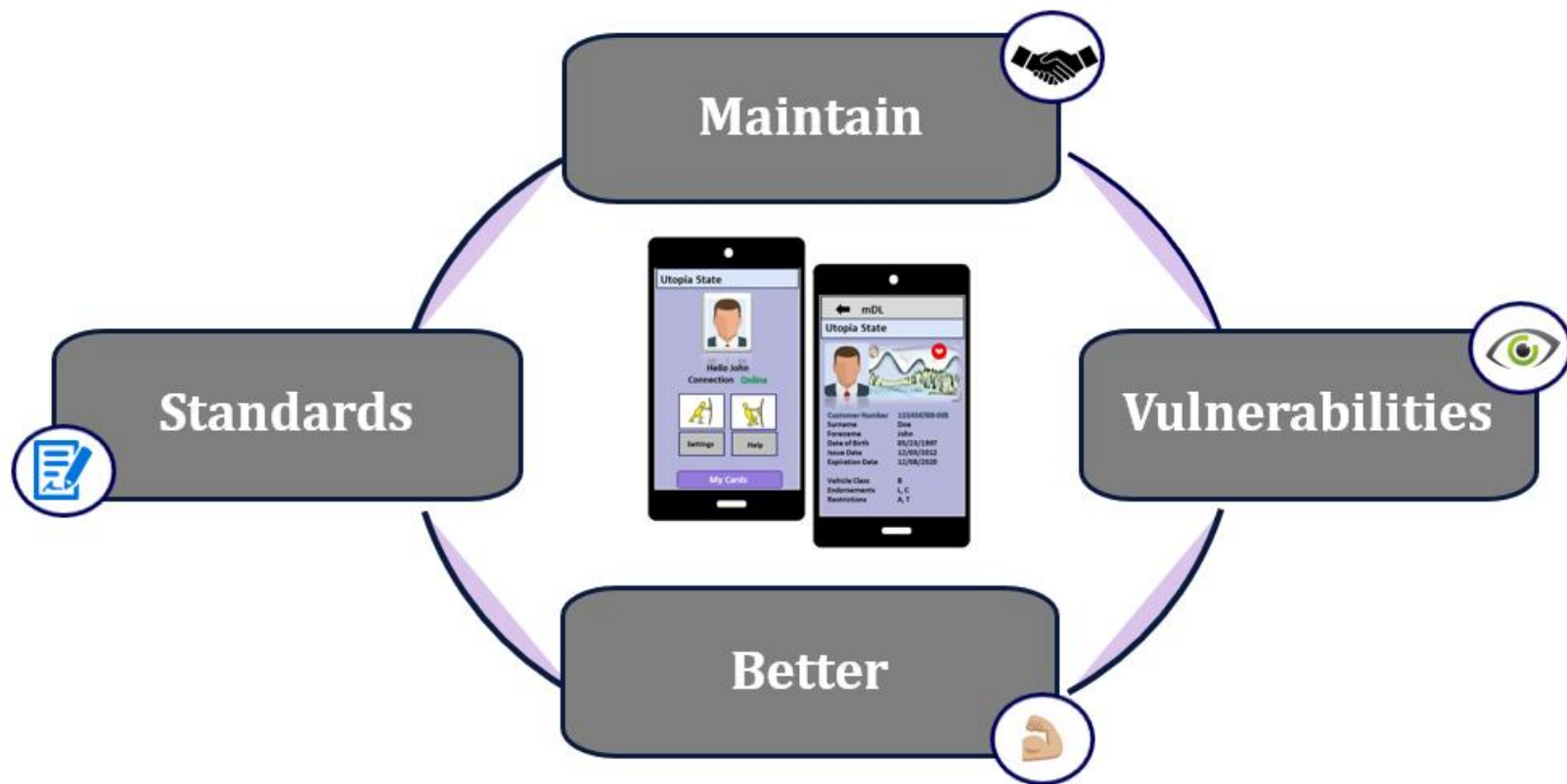


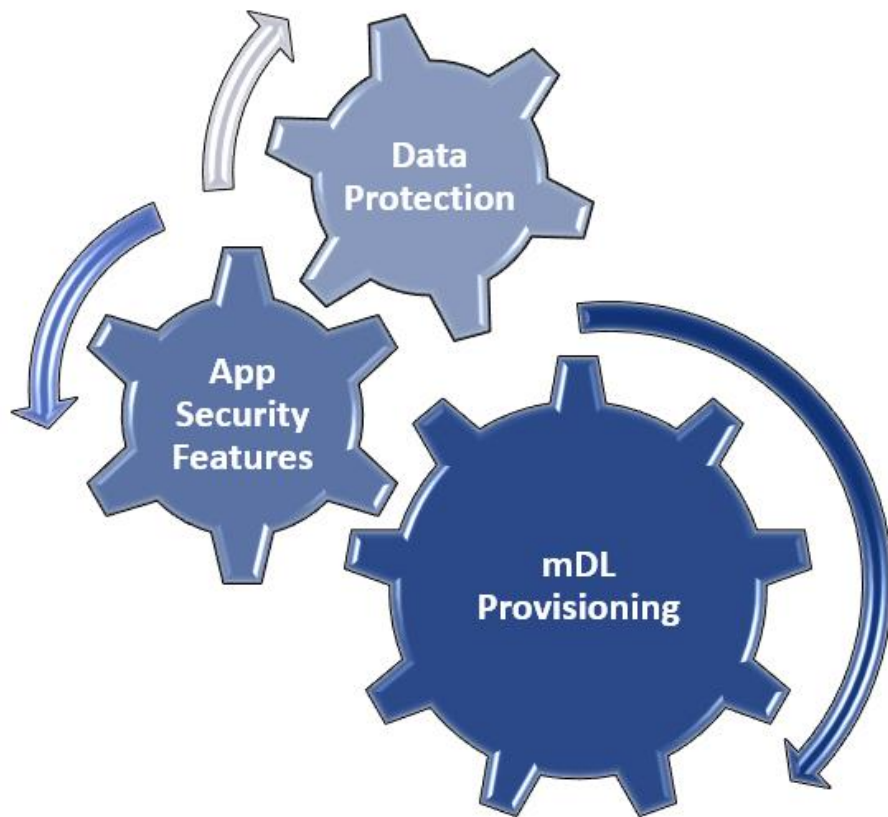
Improvement

Standards improve ID proofing and vetting process, creating stronger confidence and trust in DLs/IDs

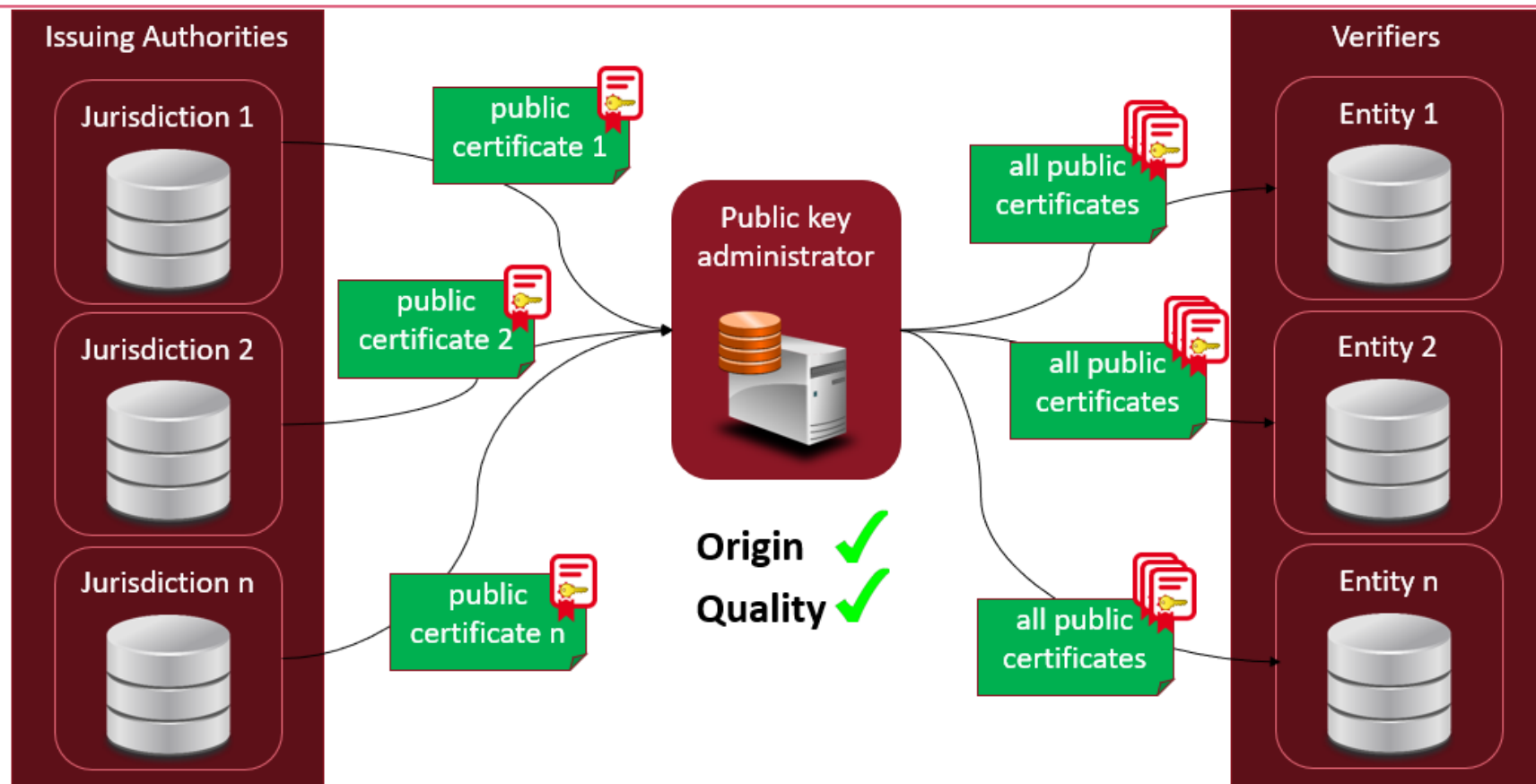
Vision for Mobile Driver License







Trust Model – Public Key Administration



Mindy Stephens

mstephens@aamva.org

+1.571.201.3472

Loffie Jordaan

ljordaan@aamva.org

+1.703.908.5864





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Issues & Risks to mDL Ecosystem Adoption & Expansion

October 12, 2020, **David Kelts**, *GET Group North America*

Opportunities to Kick-Start a Robust mDL Ecosystem

Full-Featured ISO 18013-5 Rollout

(Whitepaper 6.1)

- **Robust** Interaction Modes give Verifiers choice in how they accept mDLs to fit their business
- Few connect and transfer options could leave Verifiers deciding to wait to deploy

Jumpstarting the mDL Ecosystem

(Whitepaper 6.11)

- Driving Forces, Market Forces
- New Market Opportunities
- What incentives exist, or could be created, that will help us start on the right path?
 - For Issuers?
 - For Consumers?
 - For Verifiers?

The Variety of Ways Verifiers May Want to Accept mDL



Restaurant

- QR Scan over your shoulder
- Quick Online Request to IA



TSA/Travel

- NFC Tap
- WiFi Aware Data Transfer
- No BLE for Security Policy
- Avoid Connectivity for Security Policy



Supermarket

- Existing Connected NFC POS Device
- NFC Tap
- Online Request falls back to NFC Data Transfer

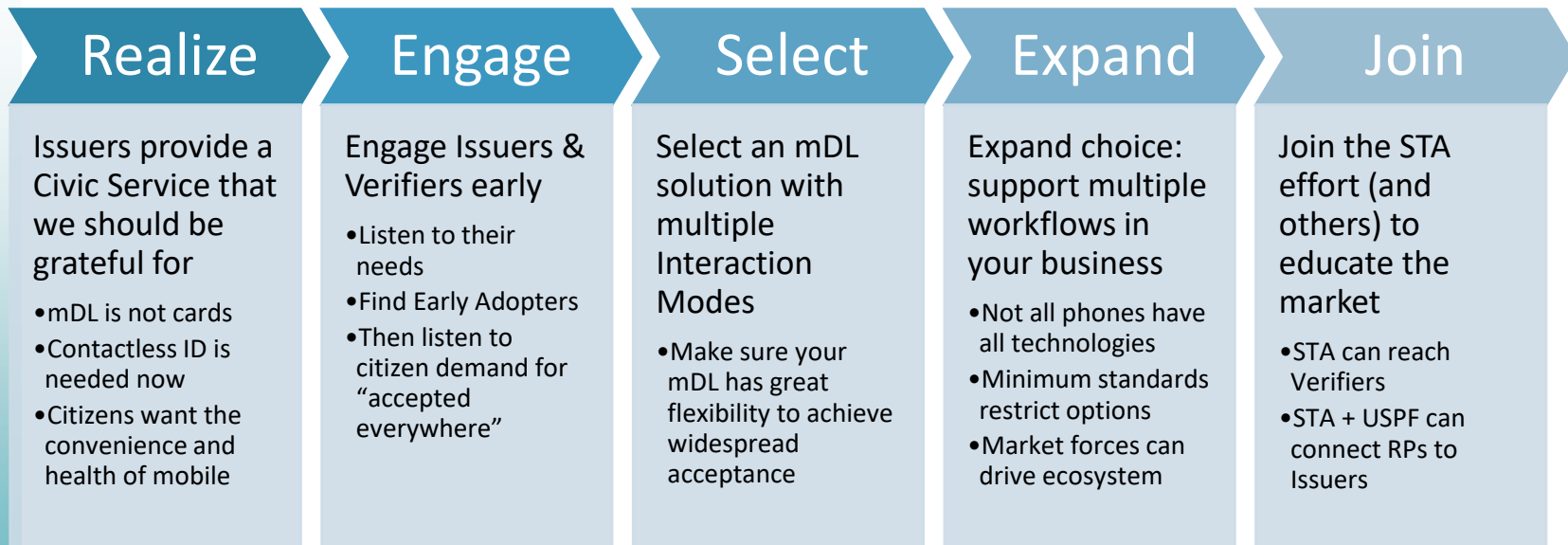


Law Enforcement

- Roadside Stop – Car to Car/Truck
- Distance Connection
- Online Request falls back to BLE Data Transfer



Working Together to Make a Rich mDL Ecosystem



Pulling a Nascent Marketplace Together

Consumer Has the Demand



Consumers may not adopt until they know where they can use mDL



Channels to tell Issuers & Verifiers of Needs & Protections they Desire



Choice in mDL Apps is possible in some Issuer models



mDL Demand: Leave purse or wallet home
Convenience and Speed
Accepted Everywhere
Health & Safety
Privacy Protection

Verifiers Hold the ID Risk



Verifiers may not adopt until seeing a significant number of mDLs



Card Standards have made their risk lower and their job easier... **ISO 18013-5**



Used to complying with identification regulations



mDL Fulfills:

- Not Accepting Fakes / Spoofs
- Faster Processing
- Personalized Service
- Health & Safety of Employees

How can we, as Secure Tech Alliance, assist...?

Build Channels to
hear Consumers,
Issuers, & Verifiers

Create Incentives
for Participants to
start early

Ensure all citizens
have access to full-
featured solutions

Educate about the
benefits of
adopting early

Expand the
Options to
Consumers AND
Verifiers



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mDL promises a revolution in Customer Service delivery – we can now trust identity from distances, scenarios, and devices that we could not previously.

Will you be ready to rely on Mobile ID and reap the benefits of mDL?



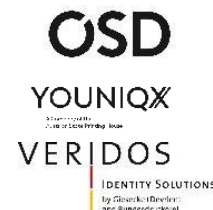


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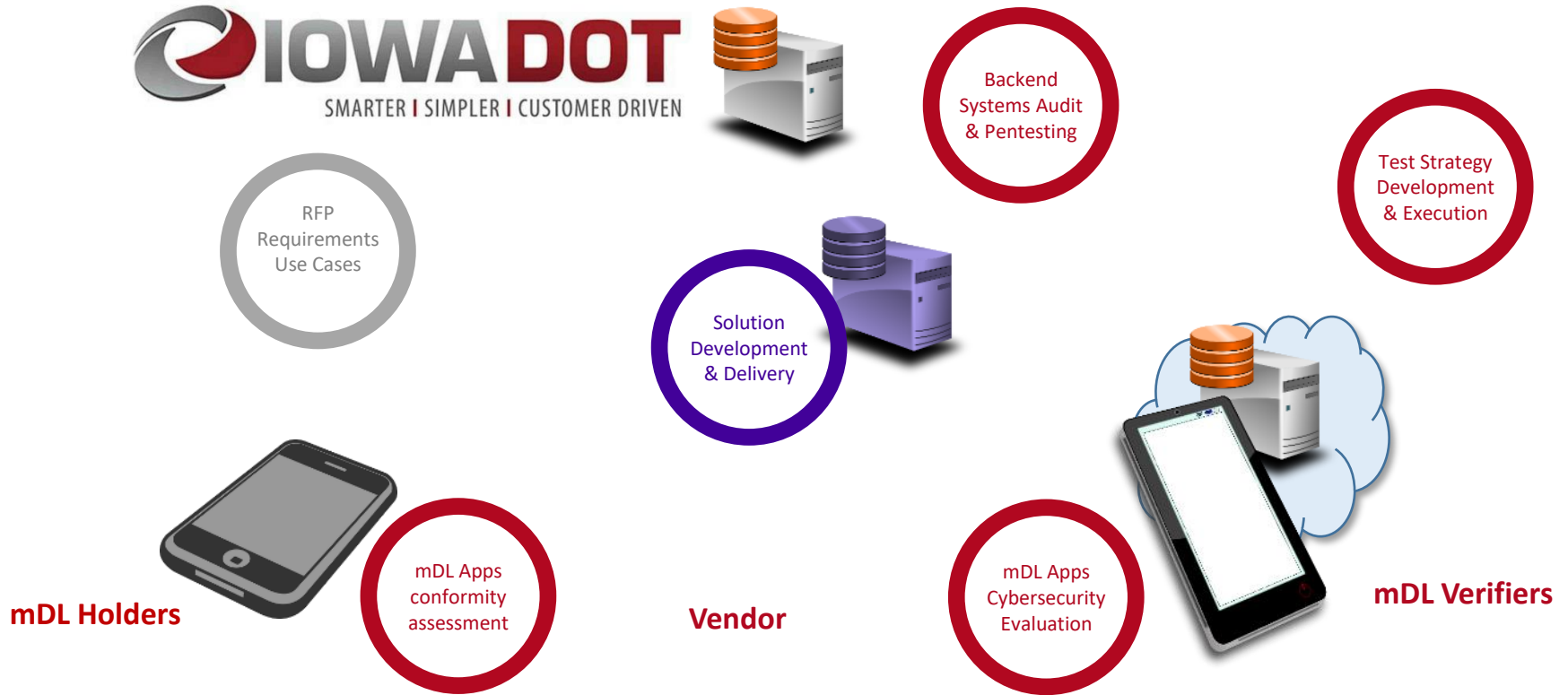
Testing & Certification

Arjan Geluk, UL

Ensuring trust in mDL standards – vetting ISO/IEC 18013-5



Case study: mDL Assurance in Iowa



Case Study: mDL Assurance in Iowa

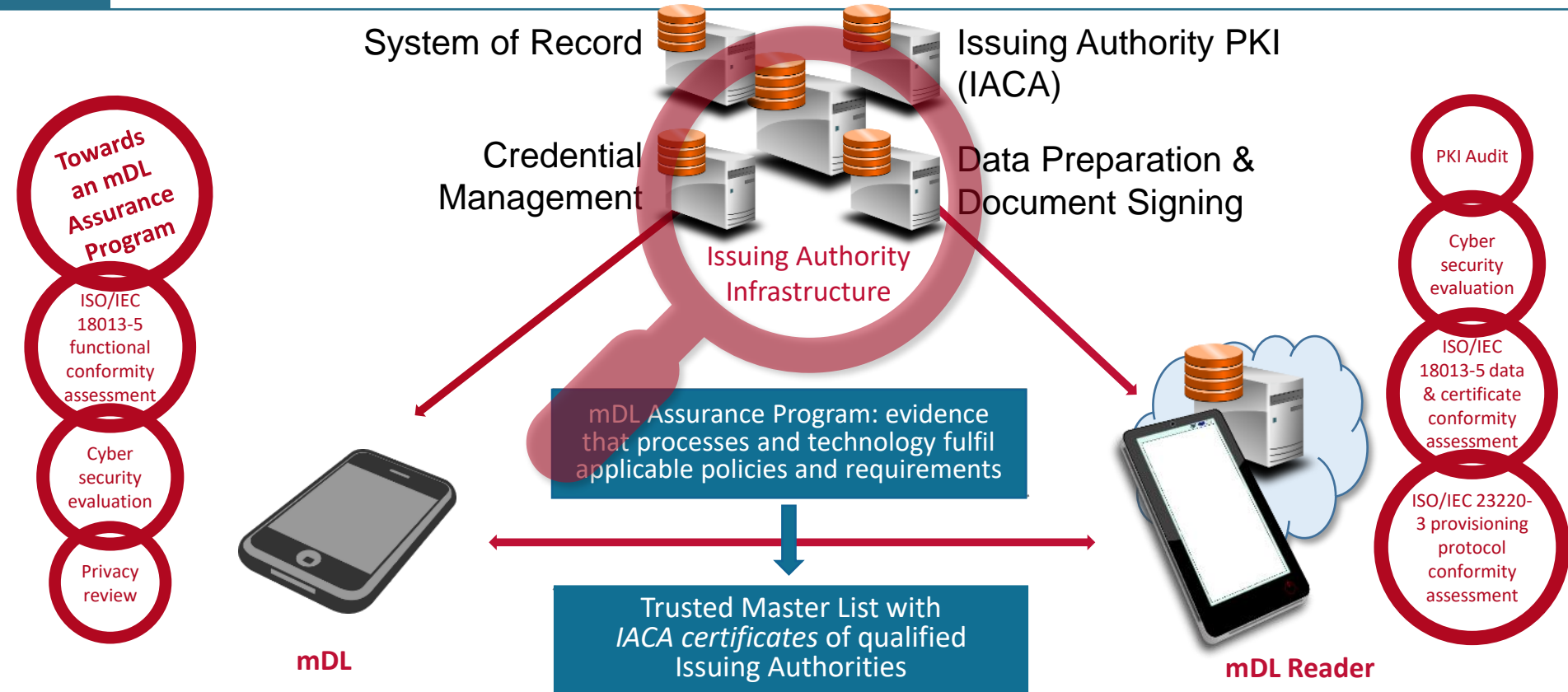
*“The testing and security evaluation activities have provided real value towards the assurance that the Iowa mDL is conforming to the latest ISO standard, and to confirm that appropriate security measures are in place, both with our agency and with our vendor. This value is not only for Iowa as an individual jurisdiction, but also for other states and stakeholders in the mDL ecosystem. **We encourage the adoption of an mDL assurance program**, as it really helps to **jointly achieve the shared goal of trustable, interoperable mDL solutions.**”*



Melissa Gillett
Director, Motor Vehicle Division



mDL Assurance: IA policies, processes and technology





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Secure Technology Alliance mDL Initiative

Tom Lockwood, Alliance Vice Chair - Technology, Council Chair, mDL Lead

Alliance's Mobile Driver's License Efforts

Identity Council (IDC) Activities

- 1). *IDC mDL Awareness, Education and Coordination efforts*
 - a). *IDC Webinars* - Webinar Series, Individual Webinars, online Demonstrations, & Educational Workshops
 - b). *mDL Relying Party Focused Activities* - Online and In-Person Demonstrations, Mini-Workshops, Workshops, Conferences
 - c). *mDL Guidance Documents* - Consensus-based promoting standard based and best practices.
 - d). *mDL Adoption Needs & Challenges* - Webinars, Guidance, Policy Documents, White Papers, Workshops
- 2). *Various identity Policies, Process, technologies, Best Practices & Advancement* - Industry Reviews, Projects, Conferences, Special Activities
- 3). *New/Anticipated Identity Council Priorities* - Industry Reviews. Conference Support, Special Activities, New / Diverse ID Council priorities
- 4). *IDC Partnering Projects* - Multiple Efforts Including mDL

Consider direct participation in mDL awareness, education and coordination activities...

... form your own relying party working groups – we will work with you!

Alliance's Mobile Driver's License Efforts

Identity Council (IDC) mDL Core Project Group

Capability Providers

State Issuers
Manufacturers
Service Providers
Payment Infrastructure & Networks
Access Council
Standards Body
Trust Framework/Ecosystem
Provider Associations

Relying Parties

Private Sector

Merchants & Retailer
Transportation
▪ Aviation, Sea Port, Overland, Mass Transit
Health & Pharma
Automotive Rental Community
Beverage Community

Public Sector

States, County, City Governments
Federal: DoD (DMDC, DISA), DHS, GSA, ISC

a). IDC Webinars

Introduction mDL Webinar 4 Part Series

- ✓ **Webinar #1 - mDL & Ecosystem Introduction & Strategic Intent**

- ✓ **Webinar #2 - mDL Capabilities Day 1 and Future (Primary focus is Day 1) & Use Case Examples**
 - Strategic Intent: White Paper Chapters #2, Select use cases from appendix, Use Case Template
 - Industry Panel: mDL Providers

- ✓ **Webinar #3 - Privacy & Trust in the mDL Ecosystem**
 - Strategic Intent: White Paper Chapters #3-4, near-term strategic priorities of 5
 - Panel: Trust Providers, Testers, Strategic Challenger Project Leads
 - Privacy-enhancing features and inherent trust in the ISO 18013-5 mDL architecture

- **Webinar #4 – Early Relying Parties, Jump-starting Near-term Adoption and Challenges Ahead**
 - Strategic Intent: Chapters 10 & Visibility to early Relying Parties / efforts
 - Panel: Strategic Effort Leads, Relying Parties, USPF, TSA
 - October 28 at 1pm ET/10am PT. Registration Link:
<https://securetechalliance.webex.com/securetechalliance/onstage/g.php?MTID=e4783ce208798231140cc84a966dab9a5>.

Follow-on Webinars

mDL Relying Parties - Trust Across States (December)

b). Relying Party Focused Activities

Merchant & Retailer Uses Cases

Transportation

- Aviation Community Use Cases
- TSA Passenger & Crew Screening
- Rental Car Community Use Cases
- Ports Authority/APPA Uses Cases
- Transportation & Shipping Use Cases

Health & Medical Community Use Cases

- Insurance & Patient Enrollment
- Pharma consumer facing use cases

Federal Government Relying Parties

- Federal Interagency Security Committee
- GSA consumer/citizen facing use cases
- Department of Defense - multiple use cases

State, Local & Tribal Relying Parties

- Executive Branch
 - Citizen/Consumer facing transactions
- Judiciary Programs & Use-Case
- Legislative Programs & Use-Case
- Higher Education Systems

Food & Beverage Community Use Cases

- Online & In-person Restricted Consumer Purchases

Public Safety

- Law Enforcement - Multiple Use Cases
- Public Safety / First Responder Use Cases

c). mDL Guidance Documents

STA Relying Party Guidance - this effort is focused of Public & Private Sector Relying Parties in general. The proposed guidance document(s) intent is to support informed decisions on:

- Enterprise adoption, trust, & interoperability
- Interaction modes to accept mDLs;
- Gain the value inherent in ISO-based mDLs.

NASCIO & STA - National Association of State CIOs represent state leaders IT priorities, policies, best practices, and issues and challenges. STA is proposing to partner with NASCIO to:

- Leverage relying party guidance to support ISO standard based mDLs and best practices-base adoption guidance.
- NASCIO's SICAM provides common guidance and best practices for State Identity Credentialing and Access Management which should include mDL, potentially as a SICAM Annex.

d). mDL Adoption Needs & Challenges

Organizing Activities, Leading/Supporting Coalitions, & Integration of Efforts

Identity Council Activities - Notional Near-term Grouping & Priority:

6.1 - Least Common Denominator Roll-out

6.2 - Identity Enrollment Considerations

6.6 - Relying Parties/Trust Across States

6.11 - Jumpstarting the mDL Ecosystem

6.7 - Testing & Certification

6.8 - Considerations to Ensure Interoperability

6.4 - Online Model Challenges

6.5 - Trust Framework Considerations

The Mobile Driver's License & Ecosystem Paper, Chapter 6 identified technical and policy considerations...

...Alliance is organizing collaborative efforts to address needs and challenges to support confidence and adoption

Alliance Mobile Driver's License Efforts

“The Ask”

- Support awareness and education of ISO 18013-5 based mDLs
- **Consider business processes & interactions relying upon driver's licenses.**

Where would an ISO 18013-5 based mDL:

- Reduce Risks, Costs,
 - Enhance Quality of Life, Service, and User Experiences
 - Respond to Growing Interest in Touch-Free Experiences
- **Identify existing or form a new working group – mDL internal Discussion.**
 - Coordinate internal awareness, education and coordination activities.
 - **Nominate representatives to participate in Alliance mDL activities.**

Working jointly with relying parties & capability providers to:

 - Support commonality and reduce overlap, and support interoperability
 - Identify where mDL capabilities reduce risks, costs, or enhance user experiences
 - Discuss priority use cases and their characteristics/ requirements
 - Consider initial mDL adoption issues and implementation



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Q&A



Selected Resources

- **Introduction to the mDL Webinar and mDL Use Cases Recordings** - <https://www.securetechalliance.org/activities-events-webinars/>
- **Mobile Driver's License and Ecosystem**, Secure Technology Alliance Identity Council white paper and FAQ <https://www.securetechalliance.org/publications-the-mobile-drivers-license-mdl-and-ecosystem/>
- **Secure Technology Alliance Knowledge Center** - <https://www.securetechalliance.org/knowledge-center/>
- **AAMVA Mobile Drivers License Resources** - <https://www.aamva.org/mDL-Resources/>
- **Draft International Standard ISO 18013-5, "Personal Identification — ISO-Compliant Driving Licence — Part 5: Mobile Driving Licence (mDL) application"** - <https://isotc.iso.org/livelink/livelink?func=ll&objId=20919524&objAction=Open>

Contact Information

- Randy Vanderhoof, rvanderhoof@securetechalliance.org
- Mindy Stephens, MStephens@aamva.org
- Loffie Jordaan, LJordaan@aamva.org
- David Kelts, dkelts@getgroupna.com
- Arjan Geluk, Arjan.Geluk@ul.com
- Tom Lockwood, tlockwood@nextgenid.com



191 Clarksville Road
Princeton Junction, NJ 08550