

# Beyond NFC: Mobile Driver's Licenses (mDLs) are Revolutionizing Digital Identity Verification



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**Digital identity verification (IDV)** is a vital tool for high-level executives in banking, fintech, ecommerce, healthcare, telecommunications, and travel. For these executives, IDV plays a key role in maintaining secure and compliant business operations. As industries begin transitioning to mobile driver's licenses (mDLs) for identity verification, several misconceptions about their complexity persist. Despite ongoing efforts to clear up false impressions, the benefits of mDLs remain underappreciated.

#### **From Simple Taps to Sophisticated Checks**

One common misconception is that mobile driver's licenses simply replicate the tap-and-go ease of the Near Field Communication (NFC) chips found in traditional ID's. While the user experience can indeed be as convenient as NFC, mDLs offer a significantly more secure and dynamic verification process under the surface. NFC stops at verifying static data, whereas mDLs add cryptographic signatures, real-time device trust checks, and biometric linkage. This seamless yet robust approach offers organizations a multi-layered defense against modern threats while retaining a user-friendly experience similar to NFC taps.

Advanced cryptographic signatures, real-time database checks, and biometric linkage ensure that every transaction is validated against up-to-date identity records, device trust scores, and risk assessments. In other words, where NFC provides a quick scan of static data, mDLs operate within a secure digital ecosystem that continuously checks for anomalies, revoked credentials, or signs of fraudulent activity.

# DATA TRANSFER OPTIONS



NFC



mDL

	NFC	mDL
Full identity information	✓	✓
Full name	—	✓
DL number	—	✓
Face image	—	✓
DOB	—	✓
Meets age requirement	—	✓
Age in years	—	✓
Sex/Gender	—	✓
Expiration date	—	✓
Address	—	✓
ID status	—	✓

## Understanding the Assumptions and Why They're Flawed

Many executives may perceive the adoption of mDLs as merely an extension of established NFC technology. This perspective fails to recognize the unique and thorough validation processes necessary to establish trust in remote digital identity verification. An mDL functions within a complex digital ecosystem, necessitating multi-layered verification to ascertain the identity of the individual presenting it, the integrity of the data, and the security of the presentation device.

Conventional identity verification methods, such as NFC chips in physical IDs, verify basic data and confirm static details like identity, expiration date, and citizenship status. While sufficient for some scenarios, this approach falls short of meeting the evolving security demands of regulated industries. In sectors like banking, fintech, telecommunications, and ecommerce, static NFC-based methods present significant blind spots. NFC verification establishes the physical presence of the cardholder, but it fails to address concerns related to regulatory compliance or potential security risks linked to the presented identity. For example, NFC chips cannot verify if an individual is on a denied persons list, whether the ID was recently ported, or if the presenting device meets security standards. Lapses in security can create situations where organizations expose themselves to compliance risks.

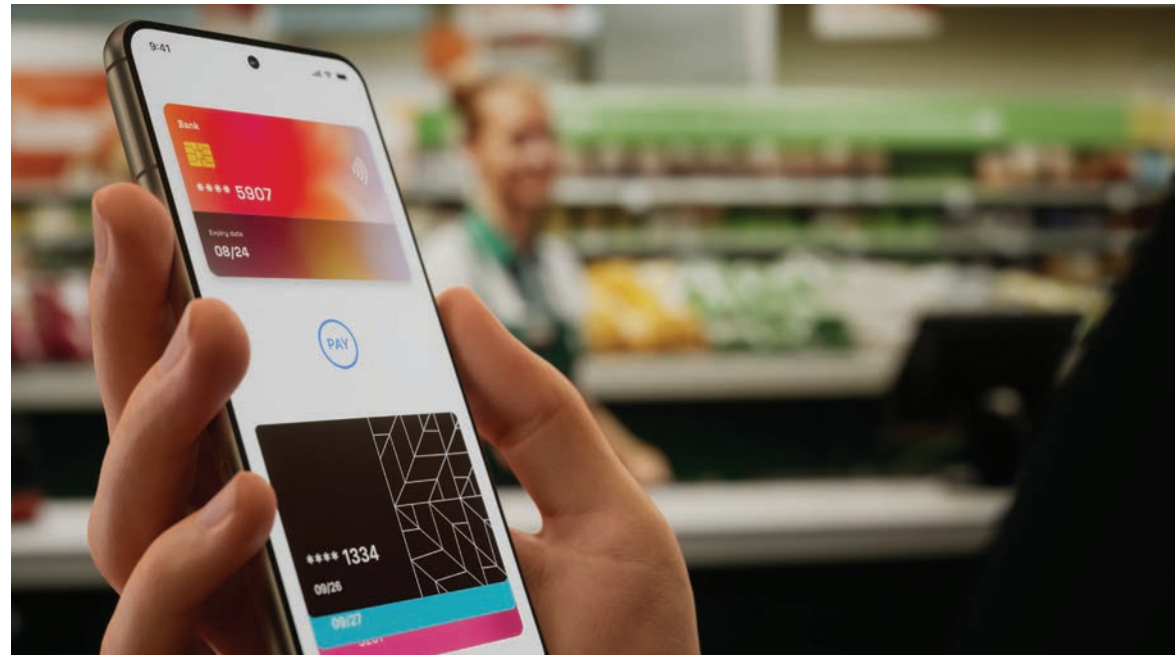
In contrast, mDLs, which operate within a digital and cryptographically secure ecosystem, offer far richer and more actionable forms of identity verification. This allows businesses to dynamically assess each transaction and mitigate risks on multiple fronts. An mDL can meet complex, critical verification needs, such as establishing a device's trustworthiness, verifying genuine identity, and confirming compliance with legal and regulatory requirements. Furthermore, mDLs enable selective data disclosure, allowing only necessary information, such as a customer's age, to be shared while safeguarding other sensitive details—a feature proving to be highly regarded by consumers which traditional IDs do not offer.

An organization relying solely on NFC, rather than combining ID documents with selfies or mDLs, risks overlooking critical indicators of fraud. By integrating mDLs, businesses can conduct comprehensive, real-time checks, gaining enhanced insights, greater control, and improved compliance in their identity verification processes. With mDLs, organizations can adapt identity requirements to each transaction's risk profile, flag anomalies, and verify that individuals meet all legal and security criteria. In short, mDLs provide enterprise organizations with a multi-dimensional view of each customer's identity, enabling them to meet regulatory standards while enhancing security, reducing fraud, and fostering consumer trust.

By fully integrating mDLs into their IDV workflows, organizations can transition from a basic data verification approach to an extensive, future-ready solution that dynamically meets the demands of today's complex regulatory landscape. This shift not only strengthens compliance and security but also positions the organization at the forefront of digital transformation in identity verification, solidifying mDLs as an invaluable asset in securing modern digital interactions.

## Using the mDL as an Anchor

To fully realize the mobile driver's license as an identity anchor, many individuals rely on digital wallet applications that securely store and manage verifiable credentials. These wallets hold the cryptographic keys necessary for verifying and presenting mDLs alongside other credentials, such as proof of insurance or employment. With selective disclosure features, users can share only the specific attributes required for a transaction—such as age or membership status—enhancing both privacy and compliance with data protection regulations. By integrating seamlessly with trusted issuers, including government agencies, insurers, and educational institutions, digital wallets transform the mDL into a centralized, trusted identity hub. This not only streamlines verification processes across industries but also supports the broader shift toward a secure, decentralized digital identity ecosystem.





When the mobile driver's license is used as an identity anchor, it opens the door to a whole ecosystem of credentials that may be verified. In addition to verifying identification, the mDL has the ability to serve as a basis for a wide variety of identity-driven use cases, which opens up new opportunities for organizations in various industries. Imagine, for example, that the mDL functions as a digital "passport" both within and between different businesses. This would enable users to safely transmit extra verifiable credentials, such as proof of insurance, verification of employment, or academic degrees. Allowing seamless interactions where end-users can verify their identity, credentials, and even specific permissions without having to re-authenticate or re-verify at each stage of the process could revolutionize the user experience.

Imagine a healthcare scenario where patients use an mDL to quickly share insurance details or verify their identity to access medical records securely. Insurance companies can also use mDLs to swiftly confirm eligibility and coverage, simplifying verification and speeding up patient portal enrollment. Similarly, in the workplace, mDL-anchored credentials could streamline employment verification. Businesses would be able to quickly confirm an employee's qualifications or certifications, bypassing the extensive paperwork that often causes delays. This is particularly valuable in industries with strict regulatory compliance, such as finance, transportation, and healthcare.

The mDL also has the potential to dramatically transform access control and membership-based services. For example, a person with an mDL could securely prove their age or club membership to gain access to age-restricted or member-only facilities, such as fitness centers, co-working spaces, or exclusive venues. In financial services, the mDL could serve as a secure method for KYC (Know Your Customer) compliance, enabling banks and

fintech platforms to quickly verify identities, reducing onboarding friction, and enhancing the customer experience.

As the mDL becomes more widely adopted, it could serve as a steppingstone toward a broader digital identity wallet that holds and verifies a range of attributes. By acting as a trusted anchor, the mDL creates a secure digital ecosystem where both public and private sector entities can confidently interact, knowing that each user's identity and credentials are verified and protected. The widespread adoption of mDLs has the potential to drive innovative solutions, from simplifying travel with digital visas to automating student discounts and senior benefits.

Embracing the mDL as a core component of digital identity infrastructure enables businesses to enhance privacy, improve security, and create seamless, value-added experiences that engage users in ways previously unimaginable. This seamless experience positions the mDL not just as a digital ID, but as a versatile platform that supports an ecosystem of secure, efficient, and personalized services.





## Unaddressed Security Risks in NFC Verification: The Need for Advanced Solutions

Traditional NFC-based verification methods, despite their convenience, present notable security vulnerabilities that may expose organizations to considerable risks. This is particularly concerning for digital business owners dedicated to protecting digital identity. NFC technology doesn't fully address the problem of synthetic identities, where fraudsters create fake identities to bypass basic identification checks.

### Risks Unaddressed by the NFC

- Synthetic Identities
- Device Spoofing
- Tampering Data
- Real-Time Updates
- Biometric Linkage

Additionally, NFCs lack mechanisms to detect device spoofing, allowing malicious actors to mimic legitimate devices and gain unauthorized access. NFC technology also falls short in identifying tampered data, as it doesn't offer robust cryptographic verification to ensure data integrity. The lack of real-time updates means critical changes—like revoked credentials or updated watchlists—aren't immediately reflected, leaving organizations vulnerable to compliance breaches and fraud. Moreover, NFCs lack biometric verification and don't confirm whether the person presenting the credential is the rightful owner, leaving the door open for identity theft and unauthorized transactions. These unaddressed risks point to a need for more advanced solutions. Mobile driver's licenses incorporate multi-layered security features to mitigate these vulnerabilities effectively and provide a more secure, reliable means of identity verification.

## How mDLs Address Unmanaged Risks in Digital Identity Verification

Mobile driver's licenses offer a robust solution to the security vulnerabilities left unaddressed by traditional NFC-based verification. To counter synthetic identities, mDLs employ advanced algorithms that detect anomalies in data patterns, flagging inconsistencies that suggest fabricated or manipulated information. Proactive detection is crucial in an era where synthetic identity fraud is on the rise globally.

### How mDL Addresses These Risks

- **Synthetic Identities:** Advanced algorithms detect anomalies in data patterns
- **Device Spoofing:** Device trust scores identify untrusted devices
- **Tampering Data:** Cryptographic signatures detect any alterations
- **Real-Time Updates:** Access to live databases ensures current information
- **Biometric Linkage:** Facial recognition or fingerprints tie the mDL to the individual

When it comes to device spoofing, mDLs utilize device trust scores to assess the security posture of the presenting device in real-time. This means untrusted devices or those exhibiting suspicious behavior are immediately identified and can be denied access, preventing unauthorized use of credentials. To protect against tampered data, mDLs incorporate cryptographic signatures that verify the integrity of the information presented. Any alteration or tampering with the data triggers an alert, ensuring that only authentic, unmodified credentials are accepted.

Mobile driver's licenses feature real-time updates that access live databases, such as DMV records or denied persons lists, so that the most current information is used during verification. This immediacy allows organizations to react promptly to any changes in a user's status, such as a revoked license or new compliance restrictions, helping to maintain regulatory adherence and reduce risk.

Finally, mDLs strengthen security through biometric linkage, tying the digital license to the individual's unique biological traits, such as facial and voice recognition or fingerprints. This biometric verification confirms that the person presenting the mDL is its legitimate owner, effectively thwarting identity theft. By integrating these multi-layered security features, mDLs provide a defense against the complex risks inherent in digital identity verification and offer organizations a secure and reliable method to protect their operations and customers.

### mDL Key Security Features:

- Cryptographically secure data exchange
- Biometric linkage between the mDL and the user
- Real-time data updates and validation
- Device integrity and trust scoring
- Selective data disclosure (privacy protection)
- Detection of synthetic identities and tampering attempts

### mDL Advantages Over NFC:

- **Compliance:** Meets regulatory requirements (e.g., KYC, AML)
- **Fraud Prevention:** Enhanced detection of fraudulent activities
- **User Privacy:** Control over which data elements are shared
- **Scalability:** Adaptable to future security threats and technological advancements



## Enhancing Digital Identity Verification: NFC vs. mDL

FEATURE	TRADITIONAL NFC VERIFICATION	MOBILE DRIVER'S LICENSE VERIFICATION
Data Security	Basic encryption	Advanced cryptography
Biometric Authentication	Not available	Available (e.g., facial recognition)
Real-Time Data Updates	No	Yes
Device Trust Assessment	No	Yes
Synthetic Identity Detection	Limited	Advanced capabilities
Regulatory Compliance	Basic	Comprehensive
Selective Data Disclosure	No	Yes
Fraud Detection Mechanisms	Limited	Multi-layered
User Privacy Control	Minimal	Enhanced
Integration with Databases	Limited	Extensive



## Key Questions to Consider in Accepting Mobile Driver's Licenses (mDLs)

To properly grasp the significance of mDLs, executives must ask critical questions about each stage of the verification process. These questions go beyond a mere “identity confirmed” result, revealing factors important to business risk, compliance, and transaction security.

### 1. Is the Human Using the mDL Real or Synthetic?

Verifying that the person presenting the mDL is real—not a synthetic AI-generated entity—ensures an added layer of authenticity, especially vital in an era of deepfakes and AI-powered fraud.

### 2. Is This Person on the OFAC List or Another Denied Person's List?

For compliance in sectors such as finance, verifying that a user is not flagged on restricted lists is essential. This check minimizes the risk of inadvertently transacting with prohibited individuals.

### 3. Can I Legally Do Business with This Person?

Beyond denied lists, this question verifies any potential legal restrictions, ensuring the business adheres to regulations and mitigates risks associated with unauthorized transactions.

### 4. Is This an Original mDL or Has It Been Ported Recently?

Recent porting of an mDL could indicate heightened risk, particularly if the mDL was transferred between devices frequently or unexpectedly. Such activity might signal security vulnerabilities.

### 5. What is the Device's Trust Score?

A device's trust score reflects its security profile, which is crucial in regulated industries where trustworthiness and risk profiling are mandated. Knowing a device's security level adds assurance that the identity is presented securely.

### 6. Is the mDL Data Up-to-Date and Valid?

An mDL's value lies in its accuracy; outdated or altered data undermines its credibility. Enterprises must confirm the validity and timeliness of the mDL to prevent relying on inaccurate information.

### 7. Has the mDL Been Tampered With?

This ensures cryptographic signatures or other security markers are intact, verifying that the mDL has not been altered or tampered with—a crucial step in maintaining data integrity.

### 8. What is the User's Relationship to the Device?

Regular device association helps reduce unauthorized use of mDLs. Validating that the user and device have a consistent relationship strengthens the overall security framework.

### 9. Is There Evidence of Prior Fraudulent Behavior Linked to This mDL?

Access to fraud and risk databases enables a proactive assessment of an mDL's history, ensuring it has no fraudulent associations.

### 10. What Are the Geographic or Legal Restrictions for Accepting This mDL?

Restrictions may apply based on the user's location or the jurisdictional regulations on mDL use, especially for high-stakes or geographically restricted services.

### 11. Is There a Real-Time Verification Process to Confirm the mDL's Validity?

Real-time validation ensures that mDLs are continuously authenticated during each transaction, allowing enterprises to respond instantly to any discrepancies or red flags.

### 12. Are There Transaction Limits or Usage Constraints on This mDL?

Understanding any predefined constraints helps prevent misuse of the mDL for unauthorized transactions or activities outside of permissible bounds.

### 13. What Biometric Factors Are Being Used to Match the mDL to the User?

Biometric verification provides a secure, robust way to ensure the mDL belongs to the person presenting it, adding a critical layer of identity confirmation.

### 14. Is the Device Presenting the mDL Operating from a Secure, Expected Location?

Location-based checks help verify that the mDL is being presented in a legitimate context, preventing unauthorized use in suspicious regions.

### 15. Does the mDL Comply with Data Privacy Regulations for This Transaction?

With privacy laws such as GDPR and CCPA, ensuring mDL data handling is compliant helps avoid regulatory breaches, protecting both the user and the business.

### 16. What Could Be Built Using the mDL as an Anchor?

The mDL can be a gateway to broader identity solutions. Beyond personal identification, the mDL could enable verifiable credentials, such as proof of insurance or employment, to be shared securely and privately, creating new business opportunities.





## The Strategic Imperative of Fully Embracing mDLs

In today's competitive and highly regulated landscape, mobile driver's licenses are not just a tool for identity verification; they are a transformative asset for enterprises serious about advancing their digital identity strategy. Fully embracing mDLs allows enterprises to leap beyond the limitations of traditional verification methods, positioning them to handle complex identity challenges with agility, security, and compliance at the forefront. Mobile driver's licenses offer a flexible, scalable, and more robust approach to identity management, equipping businesses to meet the demands of a digital-first world.

Business leaders who adopt a strategic mindset towards mDLs recognize their value goes far beyond mere regulatory compliance. Mobile driver's licenses serve as a foundation for a resilient and future-ready digital identity framework. By integrating advanced digital IDs, organizations adhere to regulatory standards while future proofing their operations by staying ahead of evolving security and compliance expectations. The mDL is the cornerstone of a digital identity approach that builds trust with consumers by prioritizing their security and privacy.

### How mDLs Integrate with TrustX

For organizations committed to elevating their digital identity verification practices, Daon's TrustX offers a solution. TrustX is built to address the complex and nuanced requirements of mDL verification by aligning with regulatory standards while maximizing security and user experience. With TrustX, businesses benefit from capabilities beyond simple identity confirmation, leveraging a wide spectrum of verifiable data and trust protocols designed to empower each verification decision with certainty. TrustX integrates seamlessly, adapting to existing frameworks while enabling detailed, real-time validation. This provides an ecosystem where businesses can authenticate mDLs quickly, securely, and with a high degree of confidence.

TrustX empowers businesses to unlock the full potential of mDLs. By linking mDL data with advanced trust protocols, TrustX ensures that each transaction is backed by real-time device trust scores, cryptographic integrity checks, and robust compliance screenings, creating a frictionless yet secure experience for businesses and end-users.

Fully committing to mDLs through TrustX allows organizations to cultivate an identity ecosystem where transactions are validated in real-time, fraud is minimized, and customer satisfaction rises due to frictionless verification. Through simplifying the integration and use of mDLs, TrustX enables organizations to align their security, compliance, and customer experience goals into one cohesive strategy. This approach doesn't just meet today's standards, it sets the stage for long-term growth, resilience, and consumer loyalty. Fully committing to mDLs through TrustX allows organizations to invest in a future where secure, efficient, and user-centric digital identity is not just a regulatory checkbox, but a powerful competitive advantage.

for more information about  
mobile drivers licenses, please visit  
[daon.com/mDL](https://daon.com/mDL)



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