

Driving Innovation through Mobility

A quick look at how consumer trends in the U.S. drive changes in technology

Millennials are one of the largest population segments in the U.S., totaling about **77 million**.¹



85% of Generation Y owns smartphones.¹



70% of Americans said they would notice their mobile phone missing "almost immediately," only 28% said the same about their wallet.²



78% of U.S. teens own a cellphone, half are smartphones.³



150 is the average number of times per day mobile users check their phones.⁴



90% of Americans have a mobile device within reach **100%** of the time.³



50% of smartphone-dependent Americans say that their phone is "something they couldn't live without."³

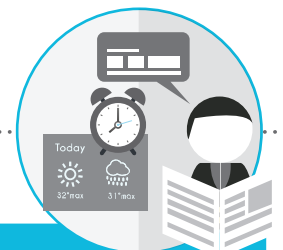
The expectation of the consumer market is shifting from digital connectivity and mobile functionality being a luxury to a necessity.



93% of adults say while maintaining privacy is a concern, the ability to share confidential information with a trusted individual is important in their daily lives.³



62% of smartphone owners have used their phone to access health information. 57% to access online banking. 44% to look up real estate. 43% to find information about a job. 40% for government services or information. 30% to take a class or get educational content. 18% to submit a job application.³



75% of smartphone owners used their phone to help remember something important that they needed to do, depending on their devices for many critical life logistics activities.³

Thales presents: Digital Driver's License

Consumer connectivity and reliance on mobile devices is increasing every day. The expectation of the consumer market, especially the younger generation, is shifting from digital connectivity and mobile functionality being a luxury to a necessity. Thales' Gemalto Digital Driver's License (DDL) solution is a highly secure way to deliver, store and manage the lifecycle of a driver's license on a smartphone.



Our digital driver's license enables a citizen to conveniently carry a highly secure version of their driver's license or identification credential on a mobile device, as a supplement to their existing plastic card. The digital license maintains the visuality and contains the same information found on a traditional plastic license, but with added high-tech security features available only through digital technology. Not only does Thales deliver a convenient and secure technology for citizens, but also a complete infrastructure to ensure security, privacy and integrity of data from enrollment to the in-field verification process.

Flexibility of choice

With the addition of digital identification credentials on a smartphone, a DMV can target the next generation of drivers while still maintaining the same service offering that citizens have come to see as standard. The option for a citizen to include a digital version of their credentials can be seamlessly added to the current issuance process at the DMV. A citizen wishing to enroll will simply elect to have a digital ID on their smartphone, in addition to receiving a traditional plastic driver's license. This means that the implementation of a DDL solution is highly scalable – ensuring no disruption to current processes and giving citizens the ability to choose to participate in a new technology.

Convenient and easy issuance

Once the backend infrastructure has been implemented, issuing a digital ID as a complement to a traditional plastic driver's license is as easy as clicking a button. If the applicant checks the box for a digital license, the DMV agent's enrollment tool will pair the applicant's phone and their profile on the DMV system. The user can then download his or her license through the secure smartphone application. The data will be encrypted and securely retrieved from the DMV backend.

Credential security

The Gemalto Digital Driver's License provides the highest level of security in credential storage, data transmission, and verification. Not only does a digital credential bring new layers of security, such as PIN or fingerprint verification, it is also much more difficult to fraudulently duplicate or alter. Because it is verified with the DMV backend in

real-time, a fraudulent credential would quickly and easily be identified as invalid. This makes verifying even out-of-state credentials significantly easier and more secure.

Additionally, if a user's mobile device is ever lost or stolen, the digital license could be remotely deactivated or wiped almost instantly.

Protected privacy

As with traditional driver's license, all citizen data and PII is originated, managed and owned by the issuing government entity. Unlike a traditional driver's license card, a digital driver's license never needs to leave the owner's hands. An officer or person verifying the credential in the field will have access to advanced real-time authentication through another version of the application on an authentication device – either another smartphone or a reader. To comply with PII policy, no footprint is left on the verification device and no geolocation tagging or tracking of user information occurs.

Trusted data management

With a digital license, a jurisdiction can have much greater control over in-field credentials compared to a traditional plastic license. For example, a license holder could be alerted when his or her credential is about to expire or has been revoked. Temporary or interim documents are also greatly enhanced when managed through a digital format, as stronger security features and mechanisms can be used than with most temporary documents; and revocation/expiry can occur automatically, ensuring temporary documents are truly used temporarily. Citizens could also update their address or other personal information directly through the app instead of visiting a branch office, saving valuable DMV resources and citizens' time. As always, the control of the information remains with the issuing entity, but providing a digital credential enables new, more efficient and more secure ways of ensuring that information is accurate and up-to-date.

Information control

A digital driver's license puts the citizen in complete control of the data on their digital credential; to a much higher degree than with a traditional plastic license. Depending on the situation, the citizen can assess the level of information required, and provide only that information. For example, while a law enforcement official needs to have access to all of the information traditionally printed on a plastic driver's license, a merchant verifying age for sale of restricted goods only needs to know that the individual is of legal age and that the photo matches the person standing in front of them. Handing them a plastic credential would allow them to see all personal information, even if it isn't relevant to this scenario. A digital credential is a great way to ensure the right people are receiving the right information, and puts the citizen in the driver's seat during this process.

Our understanding of the entire DMV ecosystem coupled with our longstanding security expertise, provides Thales with a unique position as the trusted Digital ID solution provider for the next generation of drivers.