

UL mDL Application Test Suite

Who is it for?

UL mDL Application Test Suite is a powerful test tool available for developers and testers who need to test a Mobile Driver's License (mDL) in a stable test environment in which repeatable tests can be performed on their mDL holder application implementation.

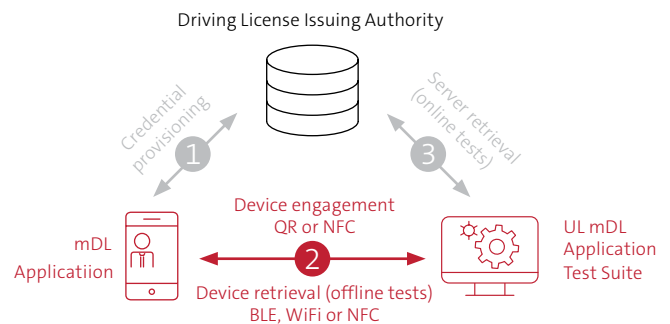
Why do you need it?

A test standard for ISO/IEC 18013-5 is currently under development. UL is actively contributing to this forthcoming ISO/IEC 18013-6 standard. With UL mDL Application Test Suite, you can test your mDL holder application implementation by simulating an mDL reader to test compliance to ISO 18013-5, Personal identification — ISO-compliant driving licence — Part 5: Mobile driving licence (mDL) application, using the ISO 18013-6 test specification. The UL mDL Application Test Suite will be kept compliant to the latest (draft) version of ISO/IEC 18013-6. The test suite also allows you to validate that the mDL holder application has been personalized correctly.

What is inside?

UL mDL Application Test Suite reuses the transport layer capabilities of any Android 10 handset to engage with and test the transfer of mDL credentials from the device containing the mDL application. The test tool connects to an Android application on the handset via Android Debug Bridge (ADB) to send and receive the test data to and from the device.

The test suite includes support for full ISO 18013-5 device engagement testing via near-field communication (NFC) or QR code, as well as support for full ISO 18013-5 mDL credential transfer testing via NFC, BLE and Wi-Fi Aware. The test suite also tests support for elliptic curve public key infrastructure (PKI) cryptography used to secure and protect the transfer of mDL information.



Key benefits

- Off-the shelf test suite
- Easy-to-use and intuitive user interface
- ISO 18013-5 Interface 2 testing
- Full ISO 18013-5 device engagement testing via NFC or QR code
- Full ISO 18013-5 mDL device retrieval (offline) testing via NCF, BLE and Wi-Fi Aware
- Ability to share test results with other interested parties
- Support for elliptic curve PKI cryptography
- Test environment supports any Android 10 handset



Specifications

Supported features

- Full coverage of the ISO 18013-6 test specification
- Device engagement testing via NFC or QR code
- mDL device retrieval (offline) testing via NFC, BLE and Wi-Fi Aware
- Connectivity for testing provided by UL's Android proxy application using ADB
- Easy-to-read and configurable test results that can be saved and shared

mDL Interfaces

- Support for ISO 18013-5 Interface 2 testing

UL's Conclusion Test Manager

UL mDL Application Test Suite runs on UL's Conclusion Test Manager (CTM). CTM is a user-friendly Test Management Application which consists of a test engine that has the ability to create and send messages in many variations via (several) interfaces to the system under test and a cutting-edge test management system to manage the entire test process. It also provides easy-to-read and configurable test results.

Hardware

Any Android 10 handset is required to be provided by the customer. No additional UL test hardware is required.

Industry specifications supported

ISO

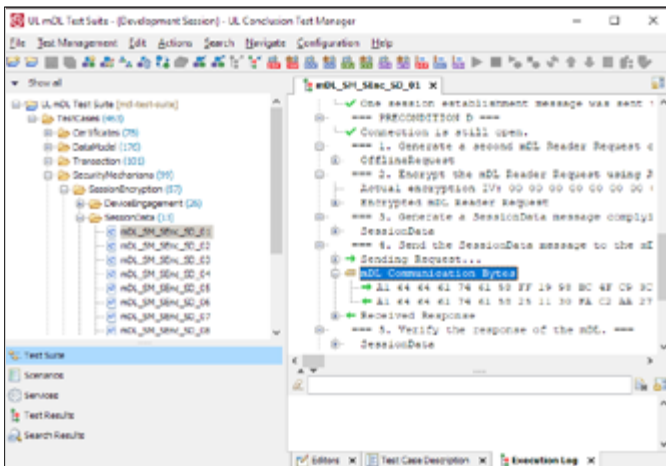
- ISO/IEC 7816-3:2006
- ISO/IEC 7816-4:2013
- ISO/IEC 14443-2:2016
- ISO/IEC 14443-3:2016
- ISO/IEC 14443-3:2018
- ISO/IEC 14443-4:2018
- ISO/IEC 18004:2015
- ISO/IEC 18013-1:2018
- ISO/IEC 18013-2:2008
- ISO/IEC 18013-3:2017

NFC

- NFC Forum, Bluetooth Secure Simple Pairing Using NFC, NFCForum-AD-BTSSP_1_2
- NFC Forum, Connection Handover
- NFC Forum, Technical Specification - NFC Data Exchange Format (NDEF)

Wi-Fi Alliance

- Wi-Fi Alliance Neighbor Awareness Networking Technical Specification, Version 3.0



For your sales enquiries, please contact us at imsecurity@UL.com, visit UL.com/eID, or contact one of our resellers.



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