

UL mDL Application ISO 18013-6 Test Suite

Who is it for?

UL mDL Application ISO 18013-6 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 implementation.

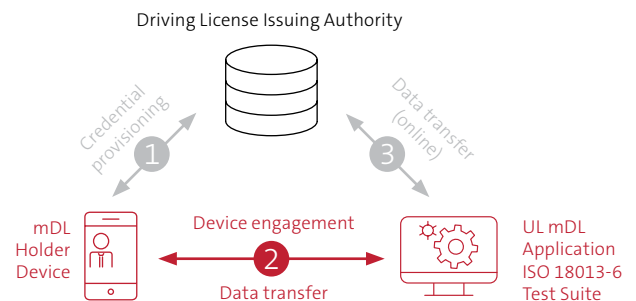
Why do you need it?

With UL mDL Application ISO 18013-6 Test Suite, you can test your mDL holder 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 tool also allows you to validate that the mDL holder application implementation has been personalized correctly.

What is inside?

UL mDL Application ISO 18013-6 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 tool includes support for full ISO 18013-6 device engagement testing via near-field communication (NFC) or QR code, as well as support for full ISO 18013-6 mDL credential transfer testing via NFC, BLE and Wi-Fi Aware. The tool 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 18013-6 device engagement testing via NFC or QR code
- Full ISO 18013-6 mDL data transfer 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 data transfer testing via NCF, BLE and Wi-Fi Aware
- Test connectivity from UL's Android proxy application using ADB
- Easy-to-read and configurable test results that can be saved and shared

mDL Interfaces

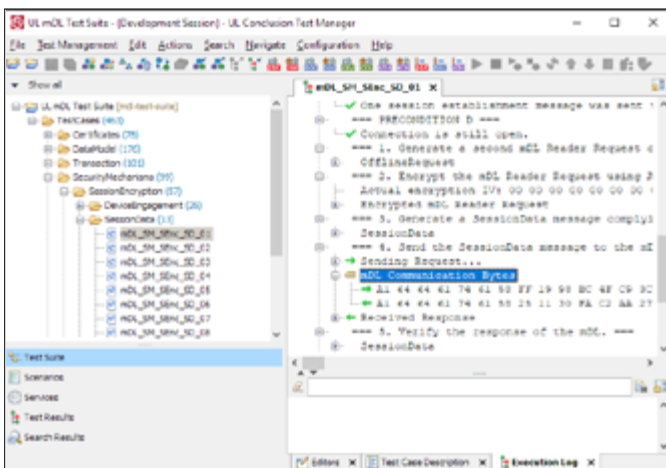
- Support for ISO 18013-5 Interface 2 testing

UL's Conclusion Test Manager

UL mDL Application ISO 18013-6 Test Suite runs on UL's Conclusion Test Manager (CTM). CTM is a user-friendly Test Management Application consisting 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, Identification cards -- Integrated circuit cards -- Part 3: Cards with contacts -- Electrical interface and trans. protocols
- ISO/IEC 7816-4:2013, Identification cards -- Integrated circuit cards -- Part 4: Organization, security and commands for interchange
- ISO/IEC 14443-2:2016, Identification cards -- Contactless integrated circuit cards -- Proximity cards -- Part 2: Radio frequency power and signal interface
- ISO/IEC 14443-3:2016, Identification cards -- Contactless integrated circuit cards -- Proximity cards -- Part 3: Initialization and anti-collision
- ISO/IEC 14443-4:2018, Cards and security devices for personal identification -- Contactless proximity objects -- Part 4: Transmission protocol
- ISO/IEC 14443-3:2018, Cards and security devices for personal identification -- Contactless proximity objects -- Part 3: Initialization and anti-collision
- ISO/IEC 18004:2015, Info. technology -- Automatic identification and data capture techniques -- QR Code 2005 bar code symbology spec.
- ISO/IEC 18013-1:2018, Info. technology -- Personal identification - ISO-compliant driving licence -- Part 1: Physical chars. and basic data set
- ISO/IEC 18013-2:2008, Information technology -- Personal identification -- ISO-compliant driving licence Part 2: Machine-readable technologies
- ISO/IEC 18013-3:2017, Information technology -- Personal identification -- ISO-compliant driving licence Part 3: Access control, authentication and integrity validation
- ISO 18013-5, Personal identification -- ISO-compliant driving licence -- Part 5: Mobile driving licence (mDL) application

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

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