

UL mDL Reader Test Suite

Who is it for?

The UL mDL Reader Test Suite is a powerful test tool available for developers and testers who need to test a mobile driver's license (mDL) reader application in a stable test environment in which repeatable tests can be performed.

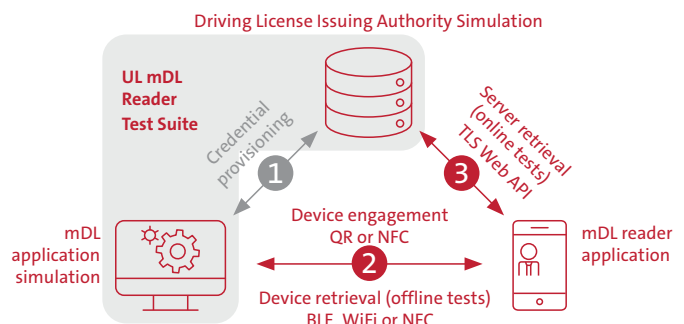
Why do you need it?

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 the UL mDL Reader Test Suite, you can test your mDL reader application under development by simulating an mDL holder application to test compliance to ISO 18013-5 using the ISO 18013-6 test specification. The UL mDL Reader Test Suite will be kept compliant to the latest (draft) version of ISO/IEC 18013-6. The test suite also allows you to validate the device retrieval (offline) and server retrieval (online) tests.

What is inside?

The UL mDL Reader Test Suite reuses the transport layer capabilities of any Android 10 handset to engage with and test the transfer of mDL credentials by the reader application from the test suite. The test suite 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 runs an mDL Holder Application and mDL Issuer simulation to perform the testing.

The test suite supports full ISO 18013-5 device engagement testing via near field communication (NFC) or QR code and full ISO 18013-5 mDL credential transfer testing via near-field communication (NFC), Bluetooth® Low Energy (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 credentials.



Key benefits

- Off-the shelf test suite
- Easy-to-use and intuitive user interface
- ISO 18013-5 Interface 2 and 3 testing
- Device retrieval (offline) and server retrieval (online) tests
- Full ISO 18013-5 device engagement testing via NFC or QR code
- Full ISO 18013-5 mDL data transfer testing via NFC, BLE, Wi-Fi Aware and WebAPI over HTTPS TS v1.2 and 1.3
- 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 and mDL server retrieval (online) testing via WebAPI over HTTPS TLS v1.2 and 1.3
- mDL Application and mDL Issuer simulations
- 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

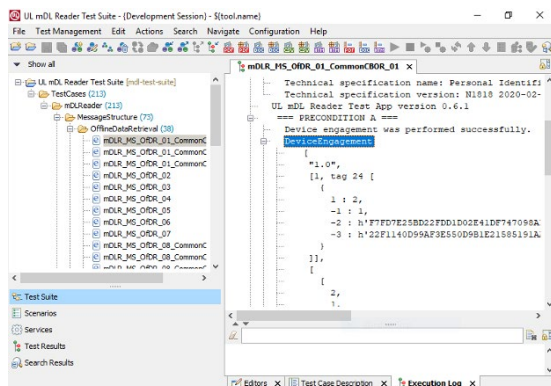
- Support for ISO 18013-5 Interface 2 and 3 testing

UL Conclusion Test Manager

UL mDL Reader Test Suite runs on UL Conclusion Test Manager (CTM). CTM is a user-friendly test management application that consists of a test engine that has the ability to create and send messages in many different variations via several interfaces to the system under test. An innovative test management system runs the entire test process, and provides easy-to-read and configurable test results.

Hardware

The customer must provide an Android 10 handset for full testing coverage. However, if Wi-Fi Aware is not required a minimum of Android 7 can be used. No additional 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

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