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UL SMART TACHOGRAPH CARD FUNCTIONAL TEST TOOL

Who is it for?

The UL Smart Tachograph Card Functional Test Tool (FTT) is intended for Smart Tachograph card manufacturers or personalisers, as well as OEMs or EU Member States who want to test and/or verify the correct functioning of a Smart Tachograph card.

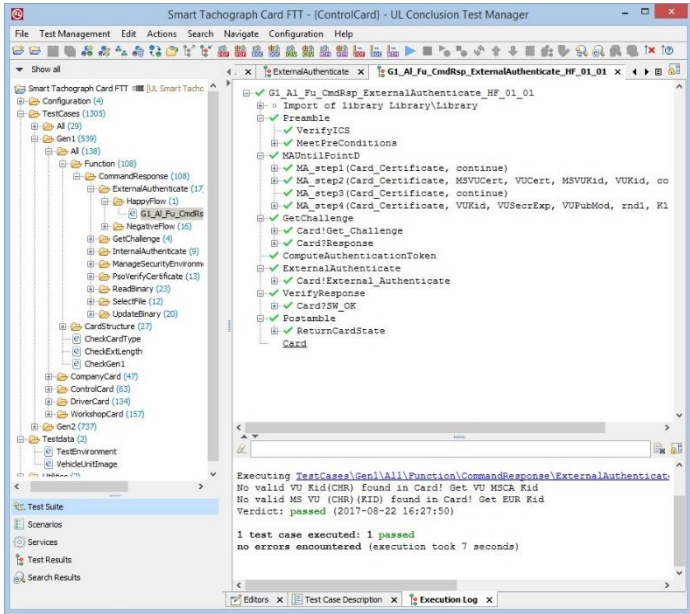
Why do you need it?

The UL Smart Tachograph Card Functional Test Tool (FTT) is an easy-to-use test environment for all four types of cards involved in the 1st and 2nd generation EU tachograph system. It covers all electronically executable tests necessary for the functional testing required for type approval, and it includes tests for interoperability and security testing.

What is inside?

The UL Smart Tachograph Card FTT checks whether tachograph cards are fully compliant with Annex 1C specifications. By sending commands to the Smart Tachograph card under test, the UL Smart Tachograph Card FTT automatically evaluates the cards response to these commands. All steps in each test case are documented in human-readable format, including references to the relevant requirements in Annex 1C.

Based on the characteristics of a card, the UL Smart Tachograph Card FTT will automatically determine which test cases are applicable to the card under test. Only the applicable test cases will actually be run.



Key benefits

- Shortens your time-to-market
- Easy-to-use user interface
- Clear feedback and reporting
- Easy to customize
- Ensure conformance and interoperability

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Specifications

Features

- Contains almost 1,500 test cases, developed by UL.
- Clear user guidance support during all steps in the test process.
- Verification of:
 - o File structure
 - o Protocol handling
 - o APDU support
 - o Mutual authentication
 - o Secure messaging
 - o PIN
 - o Card internal time management
- All of the cryptographic protocols specified in Annex 1C, including all possible key strengths, are exercised.

Test automation for all four cards

- Including test cases for all four cards in the EU tachograph system:
- Driver
 - Control Officer
 - Workshop
 - Company

Hardware

Dedicated test hardware for smart cards that can be used for testing, analyzing, intercepting and modifying communication signals between a smart card and a terminal.

- UL SmartLink Box



UL Conclusion Test Manager

The UL Smart Tachograph Card Functional Test Tool is built on top of UL Conclusion Test Manager (CTM). CTM is a user-friendly test management application consisting of a test engine with the ability to create and send messages in many variations via (several) interfaces to the system under test. A cutting-edge test management system to manage the test process providing flexibility in configuring the test execution and reporting results.

UL Smart Tachograph Test Tools

The UL Smart Tachograph Card Functional Test Tool is part of the UL Smart Tachograph Card Test tool portfolio developed by UL. The portfolio consists of dedicated hardware and software components for testing smart cards and smart tachograph vehicle units. These include the UL Smart Tachograph Card Personalization Validation Tool, UL Smart Tachograph Card Help Desk Tool, and the UL Smart Tachograph Card Simulator.



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