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UL SMART TACHOGRAPH CARD SIMULATOR

Who is it for?

The UL Smart Tachograph Card Simulator is intended for Vehicle Unit 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 Vehicle Unit (VU).

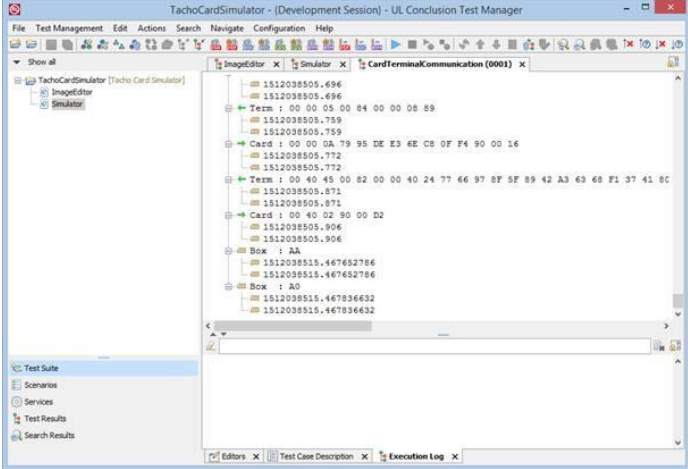
Why do you need it?

The UL Smart Tachograph Card Simulator simulates the behavior of a smart tachograph card without the need for any physical cards. The tool simulates card profiles for all four types of cards, corresponding to the four roles of Driver, Control Officer, Workshop or Company.

What is inside?

The UL Smart Tachograph Card Simulator is a state-of-the-art tool that can simulate any and all functions of an actual smart tachograph card, including all functionality and data stored on the card. The tool simulates all four card profiles of both generation-1 and generation-2 tachograph cards. It can simulate both correctly functional cards and faulty cards, which allows you to observe the VU behavior during a card inspection and whether it reacts in the correct way.

The UL Smart Tachograph Card Simulator generates detailed and clear reports of any testing, including logs and interpretations of all technical data in commands and responses.



Key benefits

- No physical cards necessary
- Eliminates the risk of lost or damaged cards
- Real time card simulation
- Comprehensive reports giving insight into application logic
- Reduces time-to-market for Smart Tachograph Vehicle Unit deployment
- Flexible and easy to use

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Specifications

Features

The properties of the simulated card can be fully determined by the user:

- The presence of one or both of the generation-1 and generation-2 applications.
- The contents of all Elementary Files in both applications.
- The cryptographic personalization for the generation-2 application:
 - o The standardized domain parameters (as specified in Appendix 11) of the card key pairs.
 - o The number and properties of the public key certificates stored on the card, including root and link certificates.
 - o The number and length of the symmetric (master) keys stored on the card.

Simulated Cards

Simulation of cards includes:

- 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. You can choose between:

- UL SmartLink Box



- UL SmartConnect



UL Conclusion Test Manager

The UL Smart Tachograph Card Simulator 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 Simulator is part of the UL SmartTesting 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 SmartStripe (for magnetic stripe emulation), UL SmartLink Box (for contact chip emulation) and UL SmartWave Box (for contactless card and NFC mobile phone emulation).



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