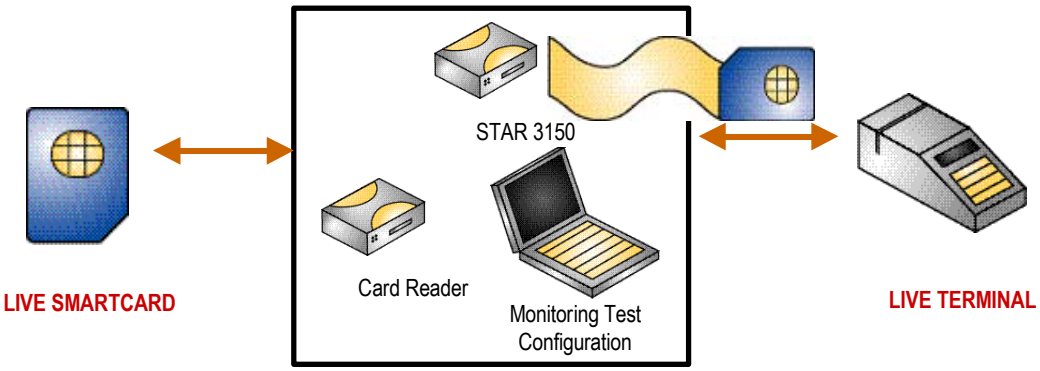
SMARTCARD PASS-THROUGH

Description



TEST ENVIRONMENT

When testing a smartcard application on a terminal (POS, 3G handset, ticketing device,…), the way the smartcard interacts with the device is very crucial in the process.

The Integri Smartcard-to-Terminal Logger provides you a powerful and flexible tool to enable the visualization of this interface. Of course, the Logger does not interfere on this interface but only captures, analyses and reports. A smartcard Simulator can go one step further in testing the terminal. Indeed a Simulator can simulate the behavior of different card models, change response data, inject errors, etc.

When off-the-shelf Smartcard Simulators are available, the INQ Smartcard Simulator is a very interesting solution. However sometimes, building a full-blown card simulator is not cost effective.

This is typically the case when a terminal uses a smartcard as SAM (security application module). Such a SAM can be quite complex, but they are normally always the same and the only test cases one wants to cover on this interface are limited but very important.

To cover this need, Integri has developed the Smartcard Pass-Through. This configuration requires a PC with INQ, a Hardware Adapter, a probe and a card reader. The probe is inserted in the terminal under test, thus replacing the smartcard. The actual smartcard is inserted in the card reader.

Any request APDU received by INQ is forwarded to the card reader. Any response APDU from the smartcard is returned via the probe to the terminal. Requests and responses are fully analysed. Test scripts can fully control the card's behavior: SW1/SW2 response codes can be changed, data can be modified, errors can be injected, and timeouts can be forced, etc.

Note that, contrary to the Smartcard Simulator the Smartcard Passthrough can easily work with live keys. Indeed keys remain stored in the smartcard and do not have to be loaded in the tool.

The Smartcard Pass-Through is therefore an easy and cost effective solution to test the card-to-terminal interface.

Highlights

- Indispensable for debugging and quality assurance of terminal applications
- Allows to control and tweak the smartcard responses to a terminal
- No customization needed
- Can work with live keys

Technical specifications

- ISO/IEC 7816-3: information technology – Identification cards – Integrated circuit cards with contacts – part 3: electronic signals and transmission protocols
- Digital cellular telecommunications system (Phase 2+); Specification of the Subscriber Identity Module – Mobile Equipment (SIM-ME) interface
- Digital cellular telecommunications system (Phase 2+); Specification of the SIM Application Toolkit for the Subscriber Identity Module – Mobile Equipment (SIM-ME) interface
- Universal Mobile Telecommunications System (UMTS); UICC-terminal interface – physical and logical characteristics
- EMV 2000 Integrated Circuit card – specifications for payment systems

Product family

- Can be integrated in the End-to-End Payment and End-to-End Mobile Platform.
- Requires the Microprocess STAR 3150 Hardware Adapter
- Requires a Microprocess STAR or PC/SC compliant card reader

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