



Integri

a Clear2Pay company

INQ® Open Platform

Level 2 Replayer

Description

When testing a terminal, such as a payment terminal or a 2G/3G handset, one can use the Integri Smartcard-Terminal Logger to visualize and analyze the communication flow. In some cases however, it is interesting to allow to capture and playback certain message flows and replay them towards the card or towards the terminal. To allow this, Integri has developed the Level 2 Player.

Integri's Level 2 Player runs on top of any INQ platform and provides capture and playback of the communication flow between a smartcard and terminal at an application level. It consists of two parts: a Level 2 Recorder and a Level 2 Player.


The recorder can retrieve any sequence of C-APDUs and R-APDUs from the INQ log. Typically this log is created using the INQ Smartcard-Terminal Logger utility, the INQ End-to-End Payment Platform (Card Simulator or Card Testing configuration) or the INQ End-to-End Mobile Platform (SIM Testing or Handset Testing).

Captured C-APDUs and R-APDUs are saved in hexadecimal format in a text file. The Level 2 Player can interpret these files and play back the exchange in either test mode or simulation mode. Furthermore, the tool allows files created by the recorder (or by hand) to be modified with wildcards, flow-control instructions, call-back-to-script functions and more. The tool also allows transforming a sequence of APDUs into real script files and allowing the Level 2 Player to be used for testing.

Highlights

- Very useful for both smartcard and terminal testing
- Records transactions between a smartcard and terminal at application level
- Recorded transactions can be replayed towards the smartcard or towards the terminal
- A real script language helps turn recorded transactions into sophisticated tests
- User can write his own scenarios in a simple text file
- Fully integrated with other INQ features

Out of the box testing



Level 2 Recorder and Player

Name	Type	Status
Hardware_Adapter	Emulator	Playing

```

RAPDU 9F19
CAPDU A0A40000026F05
RAPDU 9F0F
CAPDU A0C000000E
RAPDU 000000046F05040101F0FF0102009000
CAPDU A0B0000004
RAPDU 030503009000

REH ----- Enter Pincode : 1234 -----

CAPDU A02000010831323334FFFFFFFF
  
```

Main Sequential Log - Db path : T:\WORKING WITH SMARTCARDS\GSM_data\log.mdb Table : Log1

Name	Date and Time	Value
L2 Player Hardware_Adapter	2004-01-12 15:13:32:2701	9404
L2 Player Hardware_Adapter	2004-01-12 15:13:32:3950	A0A40000027F20
L2 Player Hardware_Adapter	2004-01-12 15:13:32:4110	9F19
L2 Player Hardware_Adapter	2004-01-12 15:13:32:5360	A0A40000026F05
L2 Player Hardware_Adapter	2004-01-12 15:13:32:5361	9F0F
L2 Player Hardware_Adapter	2004-01-12 15:13:32:6610	A0C000000E
L2 Player Hardware_Adapter	2004-01-12 15:13:32:6611	000000046F05040101F0FF0102009000
L2 Player Hardware_Adapter	2004-01-12 15:13:32:8010	A0B0000004
L2 Player	2004-01-12 15:13:32:8170	----- Enter Pincode : 1234 -----
L2 Player Hardware_Adapter	2004-01-12 15:13:32:8171	030503009000

A0A40000027F20

Product Family

For testing terminals

- Requires "INQ End-to-End Mobile – Handset Testing" or "INQ End-to-End Payment – Terminal Testing" configuration
- Requires a Micropross STAR 3150 hardware adapter

For testing cards

- Requires "INQ End-to-End Mobile – SIM Testing" or "INQ End-to-End Payment – Card Testing" configuration
- Requires a Micropross STAR or PC/SC card reader

www.integri.com



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Integri is a wholly owned, autonomous business unit of Clear2Pay, an international financial technology company focused on delivering globally applicable solutions for secure, timely electronic payments. Clear2Pay operates from 13 international offices and currently employs over 400 staff.

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