



Integri

a Clear2Pay company

INQ[®] End-to-End Mobile Platform

SWP Monitor and Logger

Description

The increasing number of NFC programs and pilots is driving the need for new testing solutions to optimise your technology and reduce the risks of your implementation. With the introduction of the Single Wire Protocol (SWP), there is now an interface that facilitates the essential fast communication between SIM and Handset for NFC applications. This fast data transport is vital to be able to store the NFC application on the SIM, ensuring a high level of security.

SWP plays thus an important role in your NFC project and monitoring the communication on this interface is vital for your quality control, debugging process and fault analysis of your SIM or handset. Without monitoring tools, the communication flow on this interface is extremely difficult to analyze as there is no user interface and no system logging is available.

The response

The Integri SWP Monitor and Logger provides network operators, SIM card and handset manufacturers a powerful and flexible tool that enables the visualization and interpretation of the communication for both the SWP, the ISO 7816 and contactless protocols. The PC-based tool enables straightforward identification of potential bugs using a simple user interface and translates the bits and bytes into an understandable report all set for immediate use. The SWP logger is compatible with MicroPross MP300 hardware.

All Integri tools are built on the field-proven INQ Open Tool Framework for unmatched reliability and scalability. Our expertise and customer-driven vision make your technology investments cost-effective and effortless.

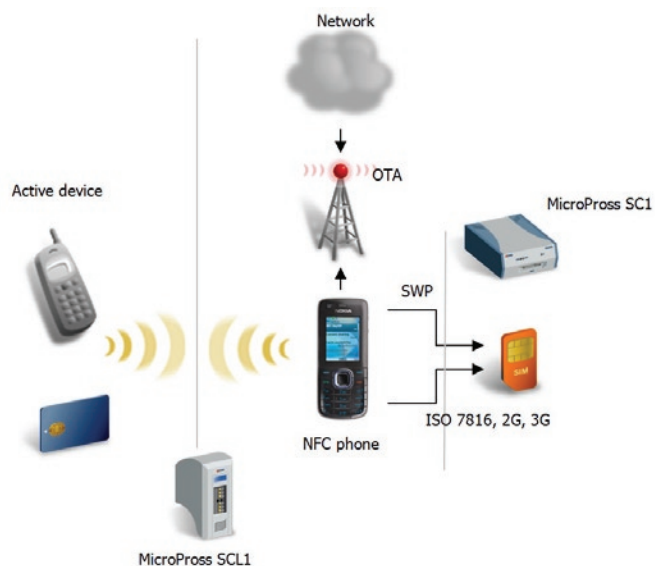
Features

- Easy monitoring of communication between SIM card and handset
- Out of the box use: no learning curve and no customization necessary
- Live logging: no manual interaction (stop-start recording) needed
- Simultaneous interpretation of different protocols: ISO7816 and contact
- Full detail tracking of completed transactions from bit to APDU (application level)
- Time delays between two mobile cursors computed in milliseconds, etus or clock cycles.
- Synchronization of individual hardware adapter clocks (MP300 SC1 and MP300 SCL1)
- All necessary format and APDU definitions included (EMV, contact, contactless, 3G, 2G+)
- Endless logging: no limits to the size of the log
- Enables fast debugging
- Export in text file
- SWP/SHDLC/HCI (up to 1.6 Mbit/s)
- ISO 7816 T=0, T=1
- ISO 14443-3 and 14443-4

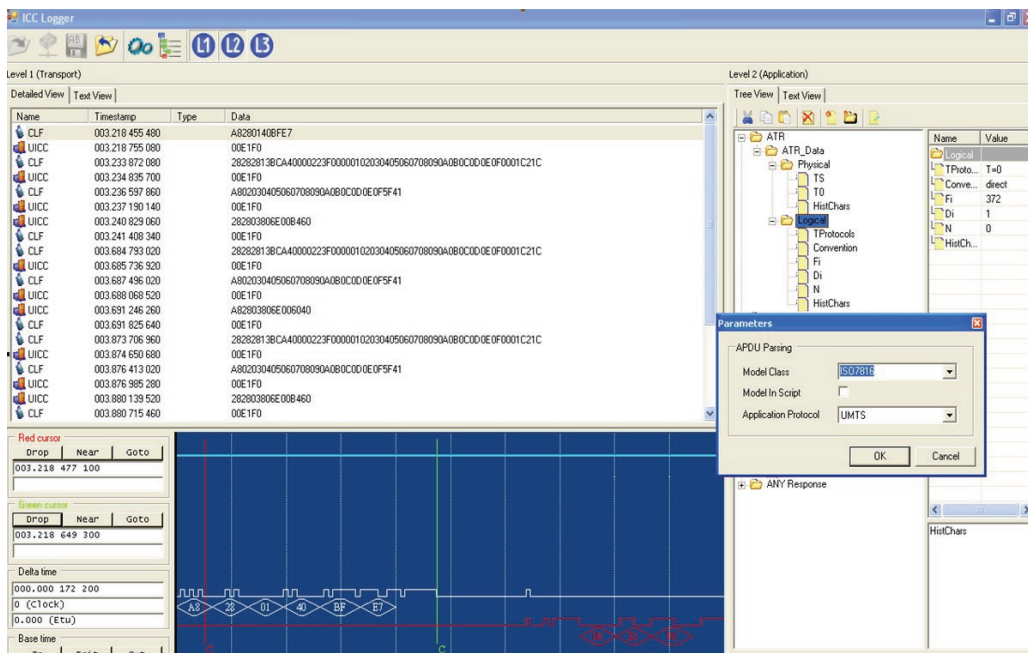
Out of the box testing



The NFC environment



Tool screenshot



Technical specifications

- ETSI TS 102 613 (SWP)
- ETSI TS 102 622 (SHDL/C)
- NFC Digital Protocol Specification (Felica, Mifare, ISO 14443)

Product Family

Runs on any INQ platform

Requires Micropross MP300 SC1 hardware adapter

Different smartcard probes available

The Integration of the Contactless Interface is available as well as the necessary hardware.

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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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