

SWP Terminal Test Suite

Clear2Pay Open Test Solutions

Near Field Communication (NFC) is still a relatively young technology. It enables fast and secure short-distance data transfers between devices such as mobile phones, smart phones, PDAs, camera's,... just by bringing devices and tags close together.

The dawning of the NFC era opens up a whole new range of business opportunities: it's a technology with an enormous potential and the possibilities are endless. Commercial introduction of the technology will significantly simplify the way consumer devices interact with one another, helping people speed up connections, receive and share information and make fast and safe payments. However, the interconnectivity devices and tags need to be accurate and interoperable. To guarantee this, all NFC equipment needs to be compliant with the NFC Forum specifications.

Real life applications go beyond the contactless interface communication between two NFC devices. One of the possible architectures is using the UICC as a secure environment to run the application in and to store the data. Single Wire Protocol (SWP) is used as the communication protocol allowing a Contactless Front End (CLF) to communicate with the UICC.

Are you looking to introduce NFC?

Clear2Pay has the expertise, trainings and test tools for the NFC and SWP/HCI interface.

Product Features

The Single Wire Protocol (SWP) Test Suite verifies if the CLF - which is the NFC component within the mobile phone - implements the SWP layers according to the ETSI specifications. The Single Wire Protocol (SWP) is the communication protocol allowing an NFC Front End to communicate with the UICC.

It's an automated test suite based on the ETSI TS 102 694-1 V7.2.0 (2011-01) test specification for the Single Wire Protocol (SWP) - Part 1: Terminal features (Release 7). The test suite includes test cases defined in GCF's SWP/HCI Working Item WI-133 (adopted by PTCRB as RFT094). These test cases cover the following areas:

- Physical Characteristics tests
- Electrical characteristic tests
- Physical transmission layer tests
- Data link layer tests
- SHDLC LLC definition tests
- CLT LLC definition tests
- Timing and performance tests

The SWP Test Suite is built on our Open Test Platform (OTP), for easy customization. It gives you the freedom to build the project, adapted to your very specific needs.



Clear2Pay is an
NFC Forum Partner



Your benefits

- **Gain time:** automated test solutions
- **Time-to-market:** prepare your NFC products NOW
- **Flexible:** built on Open Test Platform allowing to add tests or modify to your specific requirements
- **Robust:** field-proven technology used by renowned global companies
- **Trusted:** Integri tools are built on more than 18 years of experience
- **Accurate:** ensures interoperability
- **Customer confidence:** enables to deliver high quality products
- **User-friendly:** easy to install, graphical user interface

Specifications

Test Suite based on ETSI TS 102 694-1 V7.2.0 (2011-01) test specification for the Single Wire Protocol (SWP) - Part 1: Terminal features (Release 7)

Product Family

Requires the Mobile Handset Testing Platform

Uses the MicroPross SC2 hardware for simulating the SIM card interactions (SWP/HCI)

Related Product Flyers

NFC Forum Device Type Approval Test Suite

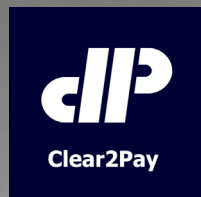
HCI Terminal Test Suite

HCI Emulator Solution

SWP UICC Test Suite

HCI UICC Test Suite

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Clear2Pay is a payments modernisation company that actively supports many global financial institutions. The company's end-to-end Open Test Solutions coupled with a dedicated testing process significantly reduce the risk, time-to-market and cost of your payment, mobile or transport system implementations.

Clear2Pay

Leuvensesteenweg 325/3
B-1932 Zaventem
Belgium

P: +32 2 717 69 00

F: +32 2 717 69 67

E: info@clear2pay.com

W: www.clear2pay.com

W: www.integri.com

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