

HCI UICC Emulator Solution

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. The Host Controller Interface (HCI) is a logical interface on top of the Single Wire Protocol (SWP), allowing a Contactless Front End (CLF) to communicate with the UICC. The SWP is the communication protocol between the handset and the UICC.

Are you looking to introduce NFC? Integri has the expertise, trainings and test tools for NFC and the Host Controller Interface (HCI).

Product Features HCI UICC Emulator Solution

The HCI UICC emulator is **fit for use in the development of a host controller** where it can be used as a 'sparring partner' at the HCI layer as defined in the ETSI 102.622 specifications.

The tool's **user-friendly Graphical User Interface** allows:

- Interactive sending of HCI commands and Events like Open Pipe, Close Pipe, Create Pipe, Set Parameter, Get Parameter,...
- Logging of command exchange at HCI
- Consulting status of Gates, Pipes, Registries

On the other hand, when receiving requests from the NFC terminal, the Emulator Tool takes care of the reception of HCI commands, generating the corresponding response and logging the HCI relevant parameters.

Next to this interactive mode, the tool can be automated as it enables the creation of repeatable scenarios by programming sequences of HCI commands.

Apart from handling the HCI commands and events, the HCI UICC emulator is extended up to the application level allowing handling the ISO 7816 command exchange to fully support Contactless Card Emulation (using loop back) and Contactless Reader (via interactive command sending). Also, at this level the open framework of the Emulator enables automation of the command sequence or the implementation of client-specific application level emulations.

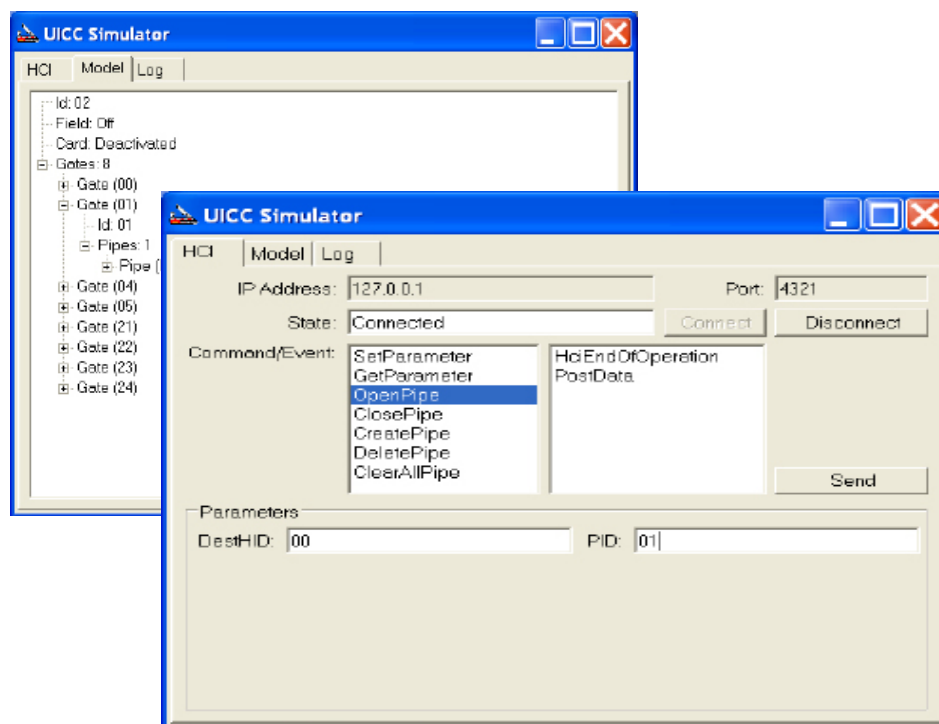
The **HCI UICC Emulator is complementary to the HCI Terminal Test Suite** (ETSI TS 102.695-1). Both tools run on the same Integri Mobile Handset Testing Platform and use the Micropross MP300 SC1 hardware in Emulation mode.



Clear2Pay is an
NFC Forum Partner



Tool screenshots



Product Family

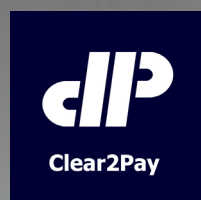
Requires the Mobile Handset Testing Platform

Uses MicroPross MP300 SC1 Hardware in emulation mode

Related tools

- NFC Forum Device Type Approval
- HCI UICC Test Suite
- HCI Terminal 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.

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