



a Clear2Pay product

# NFC Listen Device Test Suite

## Integri End-to-End Level 1 Platform

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 ruling NFC Forum specifications.

### Clear2Pay's Integri Test Solutions are approved by the NFC Forum.

Our test tools are key for the validation of products based on NFC Forum specifications and enable to go-to-market fast with secure, interoperable and high quality solutions. The tools are to be used by official NFC Forum certification laboratories, and available for your debugging and in-house pre-certification needs.

### Are you looking to introduce NFC?

Clear2Pay has the expertise, trainings and test tools.



Clear2Pay is an  
NFC Forum Partner



### Your benefits

- **Essential:** validate your NFC devices based on NFC Forum specifications
- **Fast time-to-market:** prepare your NFC products now for official NFC Forum certification
- **Ultimate flexibility:** tools are built on proprietary Open Test Framework allowing to add tests or modify to your specific requirements
- **Robust:** field-proven technology used by renowned global companies such as MasterCard, Giesecke & Devrient, Gemalto, Visa,...
- **Trusted:** Integri Test Tools are built on +19 years of experience
- **Customer confidence:** enables to deliver the highest possible quality NFC products
- **Gain time:** automated test solutions
- **Prototyping options:** simulate specific situations and check the impacts
- **Durable solution:** Updates provided automatically till the first certified certification if any specs changes

### NFC Listen Device Test Suite Features

This test tool covers all test cases defined for the 1st wave of certification related to the NFC Forum Digital Protocol Technical Specification.

Out of the box testing



**Listen NFC-A:**

- Basic NFC-A Exchange and Timings Measurement
- NFC-A Correct Installation with respect of the anti-collision state machine
- NFC-A Handling of RATS
- NFC-A Installation with error in the IDLE/READY/ACTIVE/SLEEP states, with polling and with Reset

**Listen NFC-B:**

- Basic NFC-B Exchange and Timings Measurement
- Basic NFC-B Exchange with the minimum Frame Delay Time, the minimum and maximum Inter-Character Delay Time, minimum and maximum Sequences durations
- NFC-B Correct Installation with respect of the anticollision state machine
- NFC-B Installation with error in the IDLE/READY/SLEEP state, with polling and with Reset

**Listen NFC-F:**

- NFC-F Exchange Frame Format and Timings measurement during Installation
- NFC-F Installation with collision resolution
- NFC-F Installation with Type 3 Tag technology subset configuration
- T3T Exchange and timing measurement

**Listen T4AT & T4BT:**

- Reception of chained I-Blocks
- Error handling and error notification on an I-Block indicating chaining or not
- Installation commands during Block Protocol
- Block Protocol with Reset

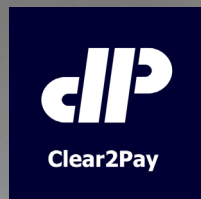
## Product Family

Requires Integri Open Test Platform (former INQ) Level 1 Contactless Card License

Requires MicroPross MP300 TCL2 Embedded Software

Requires MicroPross MP300 TCL2 Card Reader

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Integri is a product brand of Clear2Pay, an international financial technology company focused on delivering globally applicable solutions for secure, timely electronic payments. Clear2Pay employs over 600 staff.

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