



Integri

a Clear2Pay company

INQ® End-to-End Level 1 Platform

Test your proximity cards and readers

Description

Proximity cards and coupling devices used for access control or payment systems have been specified and designed to operate correctly across a wide variety of applications:

- e-ticketing,
- e-payment
- e-passports.

Modern proximity applications are covered by the ISO 14443 standard using 13.56 MHz high frequency for exchanges between contactless RFID cards/smartcards and readers. To achieve contactless transmission of data, users hold their card within a few inches of the reader.

A unique test suite

It's the only ISO-based test tool available that allows a generic testing of Type A, B and Mifare cards and terminals. The typical cards & readers involved are e-ticketing system, RFID Tag and e-Passports.

How it works

In order to proof the communication capabilities of the different equipments for the digital layers, Integri performs parametric testing of chips and readers. This means that the parameters, that are relevant for the Interoperability of the test samples, are collected in a test setup and compared with the **ISO 10373-6 AMD 1 and AMD 3** requirements. The tool covers communication protocols for ISO 14443 A/B and Mifare TM.

The INQ Platform allows to parametrize the MP300TCL2 & MP300 SCL1 hardware regarding the clock frequency tuning, the timings, the parity and protocol errors to be injected. Integri's Viewer for Level 1 trace files allows checking the results of the tests execution from the APDU level till the electrical level. Integri's Navigator enables the automated browsing between frames, bytes and electrical events.

Indispensable for testing and debugging Proximity Cards and Coupling Devices at the communication protocol and timing levels.



Out of the box testing



Benefits

- **Ensure quality:** accurate testing
- **Improve cost-efficiency:** avoid costs post launch
- **Shorter time-to-market:** automated solution without user interaction
- **Isolate errors with ease:** clear feedback and reporting
- **Ensure global interoperability:** application-independent, the tests can be performed for all systems using ISO 14443. Implemented and tested with numerous samples.
- **Accessible & Customizable expert technology:** Graphical user interface, trace browser and viewer modules monitored by software or manually. Powerful script editor. Wide range of certified test tools in the contactless field (payment, e-ticketing)
- **Open source INQ platform:** easy to customize, update or write proprietary tests

Product Family

Runs on the INQ Level 1 Platform - Contactless configuration
Requires MP300TCL2 Card Reader or MP300SCL1 Hardware Adaptor

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.

Integri headquarters

Leuvensesteenweg 325/3
B-1932 Zaventem
Belgium
P: +32 2 717 69 00
F: +32 2 717 69 67
E: info@integri.com
W: www.integri.com