

INQ[®] Stress Platform

System behavior under heavy load or stress

Out of the box testing



Integri provides an extensive range of testing solutions for payment, ticketing and mobile applications, based on its Integri INQ[®] Open Platform. The INQ[®] Stress Platform collects together all the necessary tools and simulators for testing the behavior of individual units under stress. This brochure covers the system configurations and off-the-shelf tools available from Integri for stress testing issuer and acquirer hosts for payment systems.

Stress Testing

Consumers are relying more and more on electronic payments and ATM machines. A system that fails during peak shopping times could seriously damage an issuer's earnings and reputation – imagine the effect of a system going down at the start of a weekend or on Christmas Eve.

Integri's INQ® Stress Platform is designed to test for doomsday scenarios like these. A major step forward in host testing, it provides an easy way to simulate sending high volumes of messages from the payment network. It goes beyond the requirements of functional certification to give you the reassurance that your host is truly up to the demands of today's electronic world.

The INQ® Stress Platform provides you with answers to following questions:

- How does my system react when confronted with a high number of transactions (100 transactions per second and more)?
- How does my system react when confronted with a high number of parallel transactions, when 1000 terminals or more are requesting authorization?
- How does my system react when confronted during a very long period of constant activity?

INQ® Stress Platform is an intuitive, simple-to-use tool that enables any volume of messages to be sent to the Issuer or Acquirer host in a controllable and measurable manner. It can be used to test key industry protocols, from players such as MasterCard, JCB, VISA, IFSF and others, and can be easily adapted to test proprietary protocols.

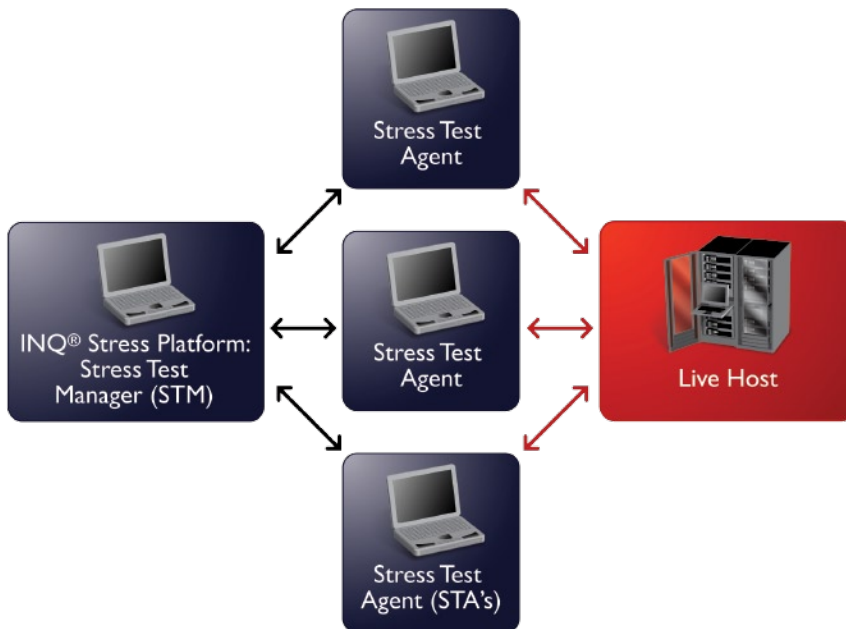
The tool consists of two key components: a Stress Test Manager (STM) and Stress Test Agents (STAs). The STM runs on Integri's INQ® Open Platform, providing a single user interface that lets you control all aspects of testing. Each STA uses raw message data, which can be extracted from the host system log or generated with the INQ® End-to-End Payment Platform. The data is enriched with dynamic information such as date, time, transaction numbers and cryptograms, and sent to the host over one or more connections based on the settings defined by the STM. The STM then measures the response times for each message. When testing is complete, the STM collects and processes all log information from the STAs and generates statistics, allowing a detailed analysis of your host's performance.

Off-the-Shelf Test Suites

A number of Off-the-Shelf Test Suites are available, covering the major international standards. Integri can also develop Tailor Made Test Suites for proprietary interfaces. Please ask your Integri representative for more details.

Benefits

- Lets you find out the response time and limits of your host system
- Helps you find shortcomings and ensure your host system is optimally configured
- Can help you determine if your host capacity is still sufficient for your increasing network traffic and in optimizing your expensive host upgrade
- Increases profitability and service level of your system
- Uses the same INQ® technology as the INQ® End-to-End Payment Platform which can be used for functional testing, reducing the learning curve for your staff
- Can be adapted by our team to stress test your proprietary interfaces
- Comes with a number of Off-the-Shelf Test Suites for most 'de facto' standards.



You are free to create a testing configuration that suits your computing capacity – the STA is a separate executable so it can be run on the same machine as the STM, or on a number of separate PCs to increase performance. Testing can be done either interactively or stored in test scripts. It is very easy to script a 24 hour day load test with high volume transactions during peaks hours.

Some of our clients also use this platform to continuously check the system response times for all types of transactions and issue a warning (by email, SMS) when abnormalities are detected.

**Out of the box
testing**



Testing and Test Tools... out of the box testing

Specializing in simple-to-use test tools and services for payment, smartcard and mobile applications, Integri offers an approach that's 'As easy as it looks'. It's the key to achieving overall project quality on schedule and within budget. The Integri tools are based on the INQ® Open Platform. INQ® can easily be customized or adapted to your specific needs.

Integri offers also a number of dedicated platforms for specific applications:

INQ® End-to-End Payment Platform

To test the different units of a payment system (card, terminal, acquirer, network and issuer).

INQ® End-to-End Mobile Platform

To test handsets, SIM cards and mobile applications in the 3GPP world.

INQ® Stress Platform

To test host behavior under heavy stress and load conditions.

INQ® Level 1 Platform

To test the level 1 protocols between contact and contactless smartcard and terminal.

More information on www.integri.com or mail us info@integri.com



a Clear2Pay company

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