



STRESS TEST AGENTS

Description

The INQ End-to-End Payment Platform is extremely suited for executing acceptance tests to check the correct implementation of the functional specifications of the host protocol. This platform is oriented towards testing the functional behaviour, giving the possibility to inject all kinds of correct and incorrect requests to the unit under test. The focus is on analysis, error reporting, and flexibility and not on speed.

When it comes to stress testing the application, this environment must be extended in order to test how the performance of the system is influenced when a lot of transactions need to be processed in parallel in a short time delay. A server application should not only process the transactions properly, it must also respect well-defined constraints regarding the response time and load requirements. Typically, the specifications will define a certain maximum response time (e.g. 2 sec/transaction) and a minimum load (e.g. 100 transactions/sec, 1000 terminal sessions in parallel).

The INQ Stress Platform is different from the INQ End-to-End Payment Platform for functional testing due to following reasons:

- ❑ It is able to support load, e.g. more than 100 transactions per second during typically more than 1 hour, e.g. simultaneous file transfer over more than 1000 connections in parallel
- ❑ The tool must support different kind of correctly formatted messages. Only supporting the repetition of exactly the same message is not acceptable as this does not simulate a realistic scenario and would probably result in a reject by the unit under test. The stress test agent must therefore have some degree of intelligence and be able to enrich certain data elements of the request messages. A certain degree of flexibility in type of messages, errors, etc. must be possible, but certainly not in the same scope as the functional test environment

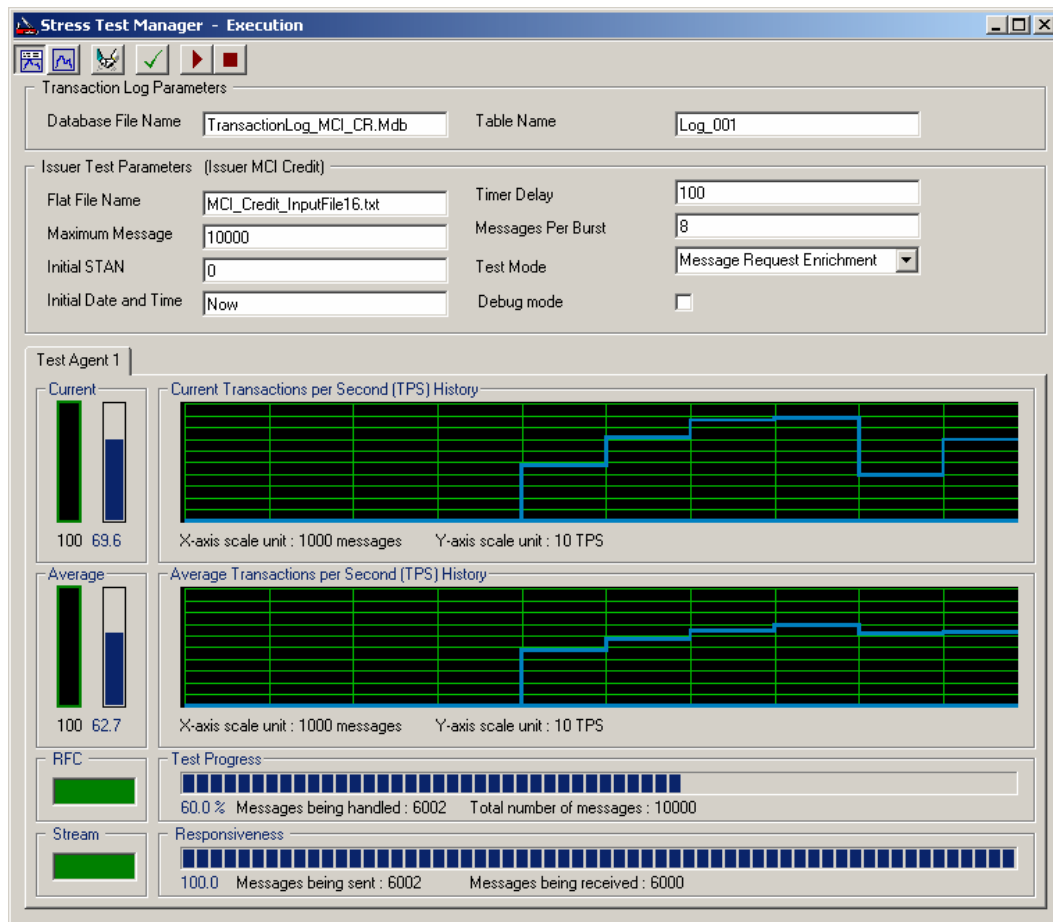
- ❑ It is possible to split the load on different PC's (unlimited)
- ❑ The tool allows changing the load characteristics, both interactively as well as via scripts (for unattended testing, e.g. during the weekend).
- ❑ Each test agent is able to manage different connections in parallel, whereby the number is only limited by PC constraints (e.g. number of X.25 parallel connections supported by the X.25 card).
- ❑ The log supports large quantities of messages (up to 1.000.000 messages and more).
- ❑ A post-process statistical analysis is possible using the logged message information.

The overhead in handling and processing a message during stress testing is kept to a minimum. Where in the functional test environment the analysis and the presentation of the information are of high importance, this is no longer the case for stress testing.

Optimization of throughput is needed and handled by the so-called Test Agent. Test Agents are developed for a given protocol and are optimized in speed and performance.

Highlights

- ❑ Load testing up to 100 transactions per second or 1000 connections in parallel
- ❑ Load can be distributed over different Stress Test Agents
- ❑ Load characteristics can be changed interactively or via scripts
- ❑ Logs from different Test Agents can be analyzed individually or combined
- ❑ Different protocols available



Available Test Agents

- ❑ Banksys OLTB/BAPO Issuer Tester Stress Test Agent
- ❑ MCI Stress Test Agent (for Credit, Debit and MEAS) (Acquirer Tester and Issuer Tester)
- ❑ JCB J-Link Stress Test Agent (Acquirer Tester and Issuer Tester)
- ❑ VISA BASE I Stress Test Agent (Acquirer Tester and Issuer Tester)
- ❑ CB2A Authorisation Acquirer Tester Stress Test Agent
- ❑ CB2A TLC/TLP Acquirer Tester Stress Test Agent
- ❑ SID Issuer Tester Stress Test Agent
- ❑ PPWM Extended Acquirer Tester Stress Test Agent
- ❑ STUR Issuer Tester Stress Test Agent
- ❑ IFSF POS2FEP Acquirer Tester Stress Test Agent
- ❑ IFSF Host2Host Acquirer Tester Stress Test Agent

Product family

Requires INQ Stress Platform

