KaNest®

Transactional Testing

The KaNest® simulator offers capabilities to perform and automate all tests of a transactional system to validate the conformance with specifications, an application protocol, standards of performance, business requirements or regulations.

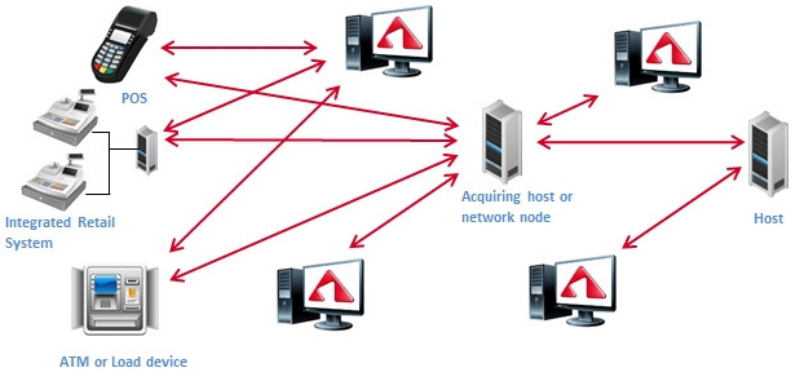
KaNest® addresses all test purposes:

- unit tests;
- functional validation;
- regression testing;
- stress and load testing;
- test automation;
- production system monitoring

KaNest® is your best partner to test, evaluate and certify Terminals, Hosts, Switches or Networks, as well as Mobiles.

KEY FEATURES

- Test automation
- Replay of message flow
- Any transactional protocol (TLV, ISO 8583, XML…)
- Multiple simulation channels
- Full cryptography
- Messages initiated from real cards
- Remote control
- Interface with HP ALM software
- Interface with Test Designer™ from Smartesting
- Running KaNest® simulators in a SaaS mode from Galitt Cloud Testing



GALITT ADVANTAGE

KaNest® is recognized as the state-of-the-art simulator for functional testing:

- KaNest® is used by designers, payment systems and card schemes to validate POS, hosts, interfaces to networks.
- KaNest® may simulate any kind of protocol to test a wide set of transactional systems, including stock exchanges and betting systems. Protocols can be directly created and modified by users.
- KaNest® may perform load and stress testing from a single PC, such as the simulation of 6,000 ATMs or the production of a flow of 900 payment transactions per second.
- The same KaNest® simulator can be set up to perfect the monitoring of production hosts.

KaNest®

Galitt
Testing Solutions

TEST SUITES

- Responder Hosts for Acquirers E2E testing (Level 3) (American Express, Discover® Global Network, Mastercard, Visa…)
  qualified by American Express, Discover® Global Network,
  confirmed by Visa
- Discover® Global Network for Issuers and Acquirers
  qualified by Discover® Global Network
- CBAE, CBcom, CB2A, nexo…
- nexo
  qualified
- GlobalPlatform TEE
  qualified by GlobalPlatform
- GlobalPlatform TEE Security
  qualified by GlobalPlatform for laboratories dedicated to TEE security evaluation
- GlobalPlatform TEE SE API
- GlobalPlatform OMAPI (Open Mobile API) **qualified by GlobalPlatform**
- GlobalPlatform SEAC Device
  qualified by GlobalPlatform

Some KaNest® FEATURES

Data Driven Testing Mode (DDT)

With DDT mode, tests are implemented in simulators simply and quickly. Tests are defined in an Excel sheet and published in KaNest® by simple import. They are easily modifiable by the user according to the needs.

Test as a Service (TaaS)

Galitt Cloud Testing is a platform of KaNest® simulators hosted by Galitt, offering Software as a Service (SaaS). Galitt Cloud Testing leverages the power of simulators and DDT mode to define and run Test Suites from a simple web browser.

Repository edition

The KN-E module generates or updates a Repository to implement protocol specifications and create new control and simulation capabilities.

Remote control

The KN-D module provides an API allowing any Windows™ application to launch test scripts and collect selected results from the simulator. A fully automated test platform can thus be created.

LOAD & STRESS TESTING

TURBO Mode

This mode consists in using a specific KaNest® communication driver for a given protocol. This driver generates a huge throughput of messages per second based on real data.

KaNest®-Director

It can drive many KaNest® independently to generate heavy loads on the System Under Test (SUT) and check its behaviour. The load can be adjusted to reproduce the real world.

KaNest® UTILITIES

Centralized management of licenses

KaNest®-DSS gives the capability to centrally manage licenses, KaNest® databases as well as users:

- license sharing;
- management of user rights;
- KaNest® database sharing and management;
- broadcasting of KaNest® software updates.

Test automation

KaNest®-Supervisor is dedicated to centrally drive and supervise all interactions with the System Under Test.

KaNest®-Supervisor enables to fully automate a test campaign without manual management.

INTEGRATION WITH EXTERNAL

Optionally combined with KaNest®-Supervisor, the integration of KaNest® with other tools from the market leads an unequalled testing automation.

HP ALM

This module enables to drive KaNest® from HP ALM software. KaNest® workspaces for acceptance processes can also be updated with data from HP ALM software.

Test Designer™ (Smartesting)

KaNest® Test Scripts can be generated from Test Designer™ in accordance with the requirements built from the modeling of the system to be tested.

TECHNICAL SPECIFICATIONS

Tested Functions

Protocol application layers for:

- POS, Integrated retail systems
- ATMs
- Acquiring and Issuer hosts
- Switches and Network nodes
- Transaction processors
- WEB services hosts

Communications

- Web-Services
- TCP/IP
- PSTN (modems)
- Null Modem (RS232 cable)
- SSL
- RFC 1086
- M/Q Series single or multi process modes

Formats

- ISO 8583 bitmaps
- TLV (Tag Length Value) Fields
- Fixed and delimited fields
- XML

Repositories (Protocols)

- Networks: ISO 8583, CBAE, Base I & SMS, MAS & MDS, AEGNS, DCI, DISCOVER, Trionis, Berlin Group, BASE24, CUP/UPI, LINK, BIM, SID…
- ATM: NDC+, D912, Logigab, Diego, GAB-D, C0X, DIAS…
- POS: CB2A, C-TAP, SPDH, Hypercom, APACS, PRICE, proprietary…
- XML: EPAS, IFX, nexo
- Mobile: GlobalPlatform TEE APIs
- Private implementations

Hardware Configuration

- Monitor SXGA (1280x1024)
- 4 GB RAM (recommended)
- At least available 4 GB on the diver
- A USB port to connect the license key (dongle)

Operating System Configuration

Windows™ 7 32 bits SP1
Windows™ 7 64 bits SP1
Windows™ Server 2008 R2
Windows™ 8
Windows™ Server 2012
Windows™ 10 64bits