

KaNest® Transactional Testing

galitt

a Sopra Steria company

Passion for payments



DISCOVER
GLOBAL NETWORK

nexo
STANDARDS



EMVCO
QUALIFIED

VISA



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:

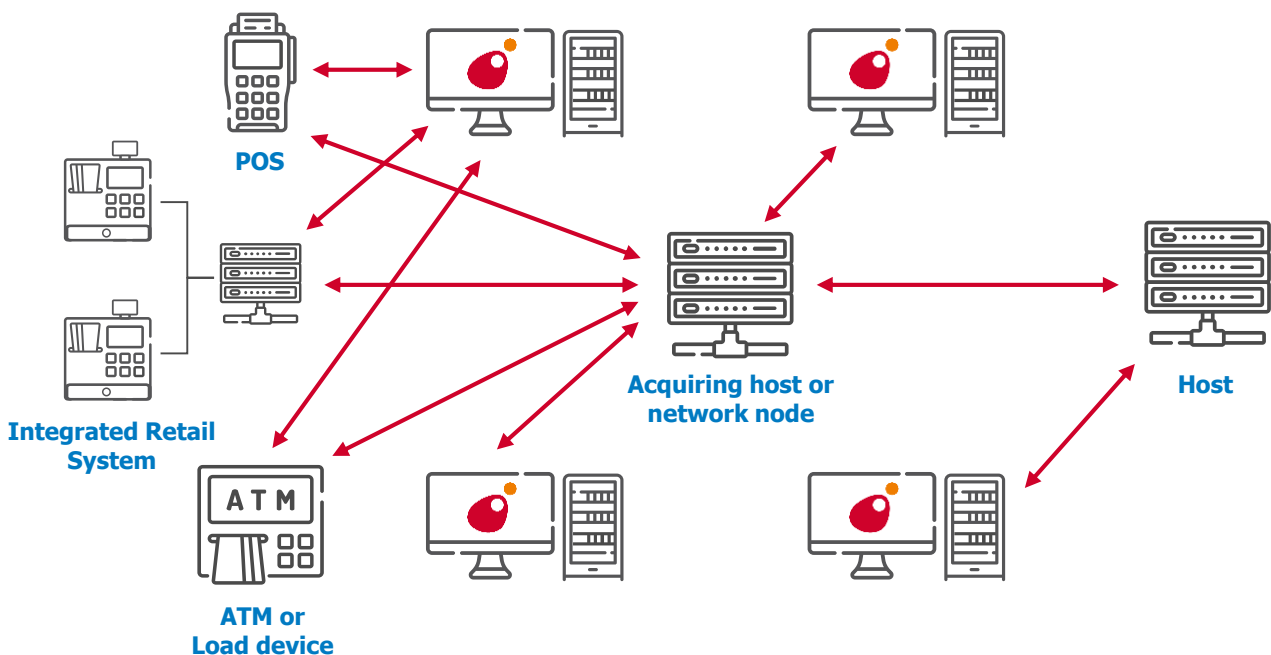
- └ unit tests
- └ functional validation
- └ regression testing
- └ stress and load testing
- └ test automation
- └ production system monitoring

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, ISO 20022, XML, JSON...)
- └ Multiple simulation channels
- └ Full cryptography
- └ Messages initiated from real cards
- └ Remote control
- └ Interface with HP ALM software,
- └ Interface with Test Designer™ from Smartesting
- └ Networked license management
- └ Running KaNest® simulators in a SaaS mode from Galitt Cloud Testing



QUALIFIED NETWORK TEST SUITES

- Responders for integration tests (Level 3) (American Express, Discover® Global Network , Mastercard, Visa...) **qualified by the payment systems**
- Discover® Global Network and DCI Xpress 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**

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® 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 TOOLS

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

Micro Focus ALM, Xray et Squash TM

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
- SSL
- RFC 1086
- M/Q Series single or multi process modes

Formats

- ISO 8583 and ISO 20022 bitmaps
- TLV (Tag Length Value) Fields
- Fixed and delimited fields
- XML
- JASON

Repositories (Protocols)

- Networks: ISO 8583, ISO 20022, CBAE, Base I & SMS, MAS & MDS, AEGNS, DCI, DISCOVER, Trionis, Berlin Group, BASE24, CUP/UIP, LINK, BIM, SID...
- ATM: NDC+, D912, Logigab, Diego, GAB-D, COX, DIAS...
- POS: CB2A, C-TAP, SPDH, Hypercom, APACS, PRICE, proprietary...
- XML: EPAS, IFX, nexo
- Mobile: GlobalPlatform TEE APIs
- Private implementations

Hardware Configuration

- Dual-core processor
- Monitor SXGA (1280x1024)
- 4 GB RAM
- 4 GB free hard disk space for installation
- 10 GB free hard disk space for the generated Result Files (the required space depends on the configured simulation options)
- USB port to connect the dongle,
- USB port to connect various peripherals (card readers, probes, ...)
- Services required to use TCP/IP

Operating System Configuration

- Windows™ 10
- Windows™ Server 2016
- Windows™ Server 2019

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**. 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**



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