# XANSation

## An Enterprise Verification System

The XANSation Enterprise Verification System is a suite of engineering test tools. These test tools refine and accelerate the Quality Assurance process of bringing a product to market. The XANSation suite guides users through common stages of the testing work flow: design, implement and execution.

## Design

XANVision is used during the design phase to enable Quality Assurance Engineers to automatically scan technical specifications for testable items. XANSation's acquisition, searching and matching features allow the user to highlight requirements as they read the specification. The highlighted items are automatically sorted by location, organized and stored. With this organized, easy to read list, the test author can utilize XANVision's authoring tool to write professional test documents.

Advantages
- Efficiently captures, stores and analyzes specification requirements.
- Promotes comprehensive use of test logic during pre & post-fabrication stages.
- Design and author efficient tests to minimize redundancy in product development.

## Implement

XANCore is used during the test implementation phase. XANCore's API executes tests cases and also has the ability to create custom virtual nodes and simulate protocol stack errors. Outfitted with a test authoring SDK to write powerful automated test cases, XANCore works seamlessly with XANVision. Input from the XANVision documents is imported into XANCore to begin the development of automated tests.

Advantages
- Extensive API means less code to write, fewer chance for errors, and smaller code base to maintain. The result is greater efficiency for test developers.

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# Execute

XANTest commander (XTC) is the control center for the XANSation Enterprise Verification System.  XTC is an automated test harness with an intuitive GUI that gives QA engineers control over their testing environment and facilitates the management of test cases and associated results.

Test results are displayed in a context–rich environment that allows the QA Engineer to view test logs. Additionally, with a click of the mouse, the QA Engineer can click on the verification point in the test log to open the test document for further clarification. Further, if the user wants to understand what is being tested, he can open the compliance item from the test document. The user can even click on the compliance item to open a new window displaying the exact spot in the specification of the verification point. This context-rich detail allows the QA engineer to effectively test a new product without being a domain expert.

To facilitate precise communication between QA and product development, all logs are stored as results files. These results files can be emailed from QA to the developer and the engineer can use the results file to recreate error conditions. The context rich features of the test log facilitates the communication from QA to Development which in turn enhances the quality of a product and speeds its delivery to market.

Advantages
- User can create customized test runs.
- Result files can be used to recreate failure.
- Test log can utilize context rich results to aid QA & developers to understand reason behind device failure.
- The XTC client can be run remotely, so tests can be initiated outside of lab environments.

## RDMA Traffic Generation and Shaping

XANStorm is built using XANSation technology to test RDMA operations.  XANStorm is a software product installed on the user's computer. An agent is installed on the RDMA device to generate traffic with user defined RDMA sequences. As an automated traffic generator,  XANStorm is exceptional in analyzing performance related issues and the GUI greatly simplifies interoperability testing for both iWARP and InfiniBand products.

**For more information contact:**

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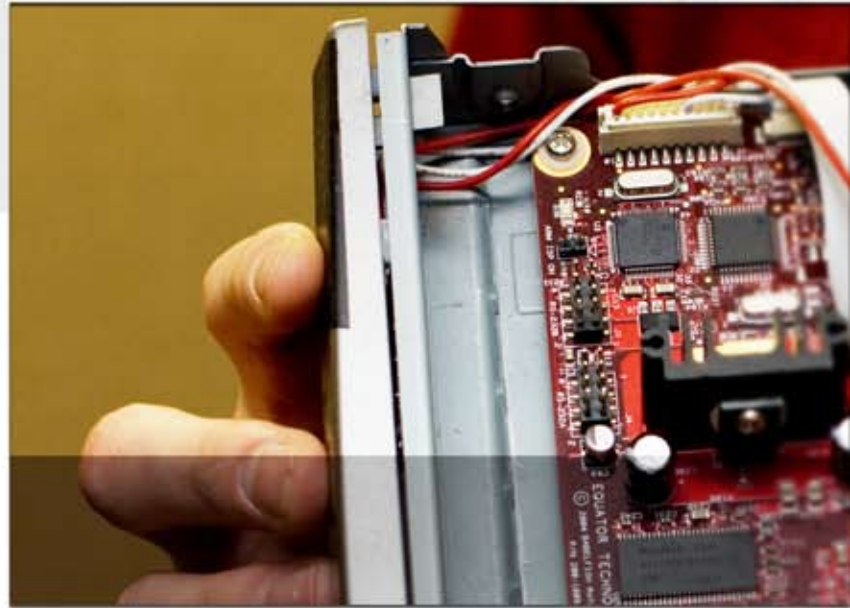
## Platforms

XANCore is supported on the 32 bit version of Redhat Enterprise Linux EL4.

XANVision & XTC are supported on Microsoft Windows XP.

XANStorm is supported on the 32 bit version of Redhat Linux & Microsoft Windows XP

# Making Verification a Competitive Advantage

XANSation