XenaMation
Automated online testing of Gigabyte Ethernet networks

How does XenaMation makes testing easier?

Testing is repetitive and resource-intensive work that often involves complex multi-vendor, multi-device environments, each with their own testing API. This demands advanced engineering skills and training, specific hardware, software and software licenses, plus the time to run (and re-run) hundreds, or even thousands of tests and scripts — and then document and evaluate the results.

Often the tests are engineer- and location-specific, which can make it difficult to share the results with relevant personnel in other locations and time-zones.

If you recognize these problems then you'll understand why using XenaMation for web-based network test automation makes life for test engineers easier by:
- Increasing efficiency and test productivity
- Reducing cycle times and time-to-market
- Reducing costs and complexity

Test smarter, not harder.

XenaMation lets test engineers simultaneously manage and control all Devices Under Test (DUT) and Devices Involved in Test (DIT) on XenaBay and XenaCompact.

It can run RFC2544 tests, proprietary scripts, protocols and solutions, perform concurrent tests and gather results across multiple devices, and consolidate them onto one platform.

Testers can leverage any MS Windows program or script, such as Wireshark, SIPp, hyperterm, .bat, Perl, or any Linux/Unix command or script, like Bash, Expect, TCL, Python, JAVA, DOS, etc., or customize their own. No additional programming skills are required.

Automation streamlines processes

XenaMation's flexible automation features let you maximize productivity, improve reporting, assure consistency of results and product quality, and minimize labor time and costs. These efficiencies help reduce the time to market of revenue generating products.

Web-based automation lets you run tests all day, every day, instead of limiting you to normal work hours. This means equipment that typically stands idle overnight, on weekends and on holidays can be fully utilized. This can mean you don't have to purchase more equipment to support test teams during their 8-hour day.

XenaMation lets you automate a battery of repetitive tests: functional testing, regression testing, smoke testing, usability testing, QA testing, BETA testing, API testing. You can run virtually any regression, load and performance, installation and configuration tests.

Key Features & Benefits

XenaMation is a web-based automation platform for testiing Gigabit Ethernet networks. Fully integrated with the XenaBay and XenaCompact platforms, XenaMation gives equipment and network test engineers 24/7 access from any Internet-enabled device, enabling them to:
- Run hundreds of test suites (incl. RFC2544) from any web browser
- Easily share test results across geographically distributed locations
- Consolidate results for consistency, accuracy and reporting

Anywhere, anytime access

XenaMation's web-based GUI suppports IE6, IE7, Firefox, Safari, Opera, Chrome, Netscape, with no client software to install or maintain. This makes it easy to:

- Manage testing progress from anywhere, anytime (incl. via mobile devices e.g. iPhone)
- View current or historical test results – completion summary reports
- Test metrics by test case, user, release#, defect#, date
- Configure alerts – email & SMS

What's required?

Installing the XenaMation server requires a recent Windows OS (e.g. Vista,) or UNIX and 2GB RAM. All you need is 500MB free disk space for the program installation, and we recommend 1Gb for the test results database.
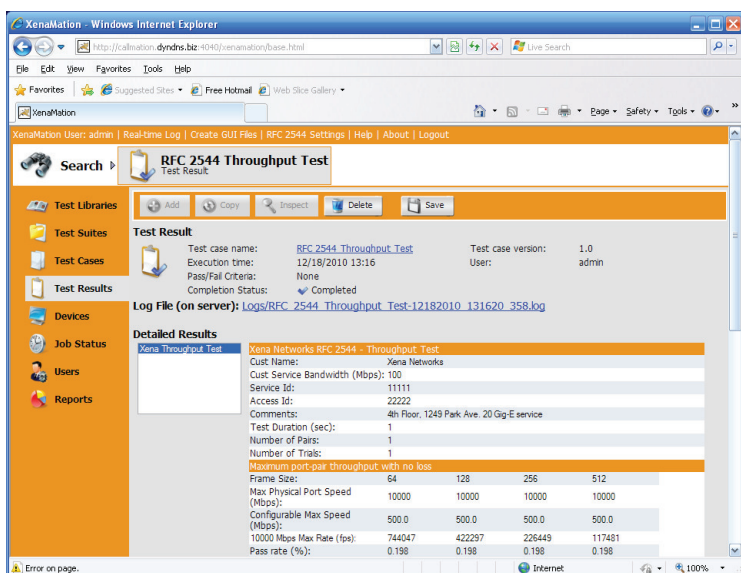
Automation also lets you batch together scripts from individual testers to assure test consistency, and to synchronize and repeat these functions so that simulated testing loads are more like a real world environment. Automation processes perform multiple and concurrent provisioning and query function-type tests, consolidate results from all of the devices, analyze results, generate reports, and even email the results to users upon completion of a set of tests.

Centralizing your test data

XenaMation centralizes valuable test suites, test cases and test results in an online repository, making it accessible for business managers, test engineers and tool technicians.

Data can be easily organized, searched, shared, reused, and compared to previous tests and results. This eliminates the need to cull multiple test data into multiple reports, and eliminates the need to duplicate tests. The single data repository lets testers easily share test cases, results and reports, and thereby catch inconsistencies and bugs that may crop up in new or updated software, no matter when or where the product was tested.

XenaMation also provides a sophisticated results analysis and reporting module, and you can easily export results to standard formats (PDF, XLS, CSV, XML and HTML). XenaMation facilitates collaboration and management, improves teamwork and coordinates QC processes across the test labs and the entire organization.

XenaMation is ideal for automating e.g. RFC2544 test cases

Feature-rich online testing convenience

Once installed, the XenaMation Server offers a wealth of features for making testing more convenient:

XenaMation Automated Testing Features
- Web-based platform for executing concurrent Gigabit Ethernet tests
- Xena test case execution and results analysis
- RFC 2544 test case execution and results reporting
  - Throughput, Loss, Latency, Back to Back
- Ad-hoc Xena Script build and execution
- Result reports via web GUI or saved to text, pdf, html, csv
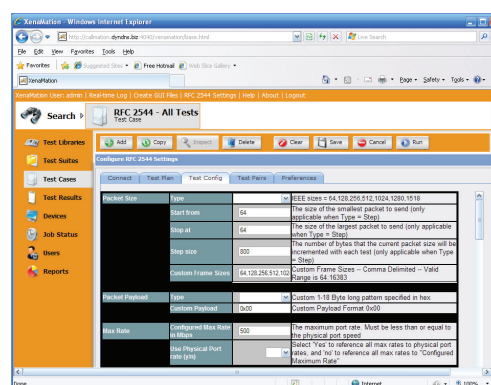
OSS Integration
- Web-based multi-user GUI users access from any web browser
- Web Services APIs to easily integrate with
  - § External OSS
  - § Proprietary Integrated Test Systems
  - § HP Quality Center / Test Director

Automated L1-L4 Test controls for Application layer traffic generation
- HTTP, HTTPS, PHP
- SMTP (email and SMS)
- SIP (SIPp, softphone)
- Open Source tools

DUT/SUT Command Line execution (Linux, Windows, Proprietary)
- SSH
- Telnet
- Command Shell
- Web GUI (replay/verify)
- Windows GUI (replay keystrokes, mouse clicks)

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Contact
NextGig Systems 805-277-2400 NextGigSystems.com