

Load Dynamix Enterprise Datasheet

Collaborative Workload Modeling and Storage Performance Validation Solution for Manufacturers

Load Dynamix Enterprise provides simplified workload modeling and enables a shared testing infrastructure that can be leveraged by remote users, yet centrally administered. Available as part of an integrated appliance or as a virtual machine, Load Dynamix Enterprise offers a new level of deployment flexibility. Its intuitive Web-based UI is built for all user levels to provide an advanced networked storage testing and performance validation solution that incorporates a sophisticated workload modeling methodology. Load Dynamix Enterprise controls multiple Load Dynamix appliances that groups of users can leverage on a global or local basis. Simple and easy to use, Load Dynamix Enterprise comes pre-configured with a test platform, protocol test suites, and test content.

Load Dynamix Enterprise was created to solve key customer requirements around ease of use and manageability of the testing resources. It provides:

- A **simple interface** for configuring and running performance validation scenarios that complements our existing Test Development Environment (TDE)
- A convenient and effective way to **share Load Dynamix appliances**, ports, and test content with all results in a centralized repository
- An **centralized way** to manage and track testing resource usage by individuals and teams
- An easy method to **characterize production workloads** with high fidelity and analyze test results

Key Benefits

Improved collaboration & increased team productivity

- More users (from novice to expert) can leverage the power of Load Dynamix
- Tests and results can be shared within and across teams with a centralized view

Greater utilization of Load Dynamix appliance ports and tests.

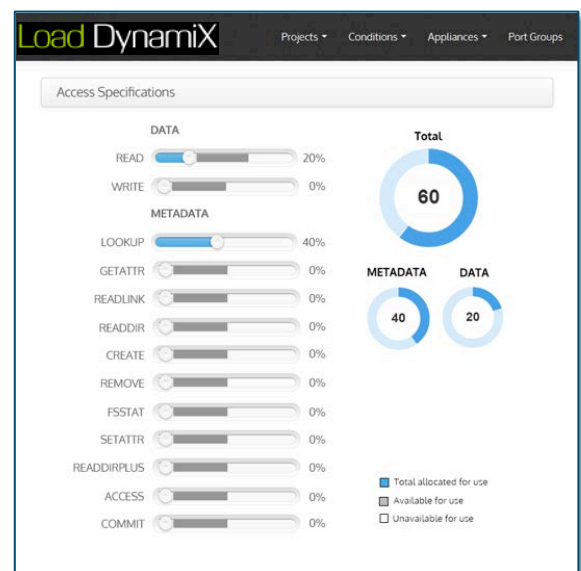


Figure 1: Load Dynamix Enterprise workload modeling interface

Simple Collaboration

Share Load Dynamix resources such as appliances, ports, tests, and test results with specified groups or individuals based on their role within the organization. Access to specific resources and tests can be dynamically determined to support higher levels of security and efficiency. Such functionality allows team members to work more effectively with each other and increase the ROI in Load Dynamix appliances.

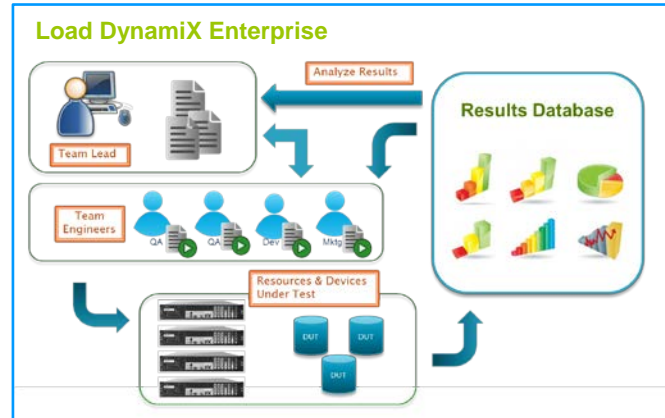


Figure 2: Diagram illustrating the functionality and benefits of Load Dynamix Enterprise

Sample Workload Models

The following sample workload models are shipped with the current version of Load Dynamix Enterprise: iSCSI, FC, NFS and SMB versions. These workload models allow users to define and control key IO access patterns with a simple Web interface, and deploy them to a test bed.

Application Workloads Library

The Load Dynamix Enterprise interface provides a set of customizable workload models that are characterized and pre-configured for specific applications, such as OLTP and various Microsoft Exchange workloads. Such valuable assets allow users to generate realistic workloads without the need to do extensive research and manual data collection.

Figure 3: Examples of pre-configured workload models available in the Load Dynamix library

⚙️ Online Transaction Processing (OLTP)				
06:00	1	1	1	1
mm:ss	port	network	scenario	test run
iSCSI SCSI SWT				
⚙️ MS Exchange 2007 - iSCSI non logging				
06:00	1	1	1	1
mm:ss	port	network	scenario	test run
iSCSI SCSI SWT				
⚙️ MS Exchange 2007 - iSCSI - logging behavior				
06:00	1	1	1	1
mm:ss	port	network	scenario	test run
iSCSI SCSI SWT				

High Fidelity Workload Models

Load Dynamix Enterprise supports a granular way to model workloads. In addition to varying the command mix, the solution also supports the ability to model directory structures, file size distribution, folders, block size distribution and I/O direction.

Simple Test Execution

Run and configure tests with a simple “push button” interface. Load Dynamix Enterprise allows storage and network administrators to configure and execute tests without requiring protocol expertise or proficiency with the Test Development Environment (TDE).

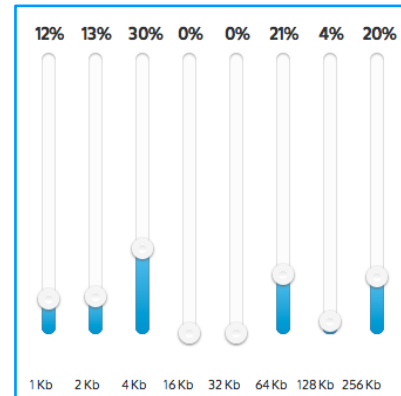


Figure 4: Easily model high fidelity workloads with slider bars.

Historical Data Capture and Presentation

Recall any output results and statistics from previous test runs for comparison and analysis.

Test lab administration

Create and save configurations (network profiles) for test beds, devices under test, etc. Allows users to simply deploy their tests to pre-configured test beds, and allows network administrators to enforce network constraints, lowering incidences of IP space conflicts, VLAN congestions, and other potential conflicts.

Batch Mode with Pass/Fail Conditions

Launch an execution of test series governed by logical conditions. Allows users to efficiently execute batteries of tests, sequentially or in parallel, which is common in regression testing.

Automation

Control all shared resources from a web service API. Allows for easy integration of Load Dynamix Enterprise into a test automation harness and also integrates with build servers (e.g., Jenkins).

Usage Tracking

Administrators of Load Dynamix appliances can now see periodic metrics on actual usage of each device or groups of devices, such as: port utilization, number of tests actually used, test duration, and total port hours. Such capability helps your company's test and QA managers determine if the appliances are being used to their full capacity.

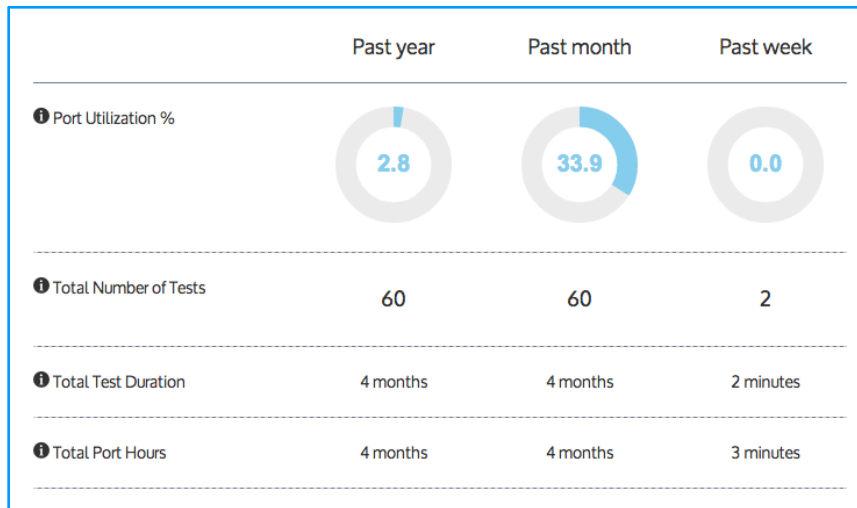


Figure 5: Administrative screenshot for usage tracking.

Deployment Options

Load Dynamix Enterprise is available in two implementations: It can be pre-configured on an appliance for superior performance and stability for faster time to value. It is also available as a Virtual Machine for flexible deployments. The appliance is equipped with 10TB of storage for saving test projects and results (equivalent to 30 x 24 hours of use for an 8 port appliance). External storage can be used for additional space.

Licensing & Supported Platforms

Load Dynamix Enterprise is licensed on a per-physical-server or on a per-Load Dynamix Enterprise-appliance basis. Each Load Dynamix load generation appliance that Enterprise manages requires an add-on software license.

Load Dynamix Enterprise supports all Load Dynamix appliances including the Load Dynamix 1G Series, 10G Series, and FC series.