

What's New in Version 5.0

Product release highlights

Load DynamiX launches the most anticipated release to date. Version 5.0 introduces the world's first Production Storage Workload Acquisition solution! Building on top of seven years of deep storage protocol emulation innovations, the Workload Acquisition solution from Load DynamiX gives users the unprecedented ability to analyze the DNA of production storage workloads, statistically model those workloads with high precision, and then regenerate those workloads to perform what-if analysis on the storage arrays and storage infrastructure.

The Load DynamiX Workload Acquisition is designed on the following key principles:

- **Unprecedented ease of use** - build an easy-to-use product that allows anyone to acquire production storage workloads without the prerequisite of deep storage protocol knowledge
- **Demystify production workloads** - build an intuitive user interface that graphically breaks down the key characteristics of the production storage workloads
- **Analyze what-if scenarios** - build an end-to-end solution, complementing the Load DynamiX load generation solution, to allow users to perform what-if scenarios using storage workloads acquired from the users' very own infrastructure

The Art of the Storage Workload

See storage performance analytics in action with Load DynamiX v5.0!

Workload Acquisition

Feature	Function / Benefit
VirtualWisdom Performance Probes	The VirtualWisdom Performance Probes provide the ability to capture workloads directly from either Fibre Channel (4/8/16 Gb) or Ethernet (1/10 GbE) Storage networks in real-time. They provide unparalleled insight and data granularity required to manage your storage infrastructure where performance is measured in microseconds.
Workload Data Import	The Workload Data Importer is designed to import and analyze workload data from storage infrastructures. The workload data can be exported from storage vendor monitoring tools or server utilities such IOStat as Comma Separated Variable (CSV) text files.
Production Storage Environments	Production Storage Environments let the system know where Production Workload Data comes from. This enables all data from the same source to be easily accessed. When Workload Sensors are used, the PSE allows the user to specify where the Sensor is located in the fabric and any filter that should be applied to focus on a specific application or storage array in the environment.
Acquisition Profiles	Acquisition Profiles specify how to collect workload from Production Storage Environments via a Workload Sensor. They determine how long the information will be collected and which Analysis Policies to use once the Production Workload Data is collected. Based on the Analysis Policies one or more workloads can automatically be created.
Workload Analysis Policy	An analysis policy defines how to analyze data coming from the Workload Data Importer, or Workload sensors and which Workloads to automatically create. These policies are provided out of the box and can be edited by users.
Production Workload Data	Production Workload data is the data about your production workload(s) captured by the Workload Sensor or Workload Data Importer.

In addition to Workload Acquisition, Load DynamiX is also introducing many exciting new features and enhancements described on the next page.

LDX Enterprise (LDX-E)

Feature	Function / Benefit
New Example Workloads	The following Example Workloads are added for Fibre Channel and iSCSI: File Server, MS Exchange 2003, MS Exchange 2007, MS Exchange 2010, MS Exchange 2013, MS SQL Server, Oracle Database, and Splunk. Note: these are Example Workloads that are based on one specific published study of the specified application. Review the information about the specific Example Workload prior to using.
Redesigned NPIV Setup for FC Test Beds	Major design improvements are added when configuring an FC Test Bed with NPIVs. As applying NPIVs can take some time, especially in a fabric with a large number of Targets / LUNs in the same Zone, a real-time progress display is added to the Test Bed setup pages when adding, removing, or modifying NPIVs.
Support for Print PDF Using Web Browsers	Many modern web browsers, operating systems, as well as 3rd party add-ons provide the ability to create a PDF from a browser page. Some improvements have been added to support these Print PDF functionalities so that you can create properly configured PDFs from important LDX-E pages, such as Reports and Results Dashboards.

Load Dynamix Appliance¹

Feature	Function / Benefit
LDX-V Plus	LDX-V Plus is the higher performance version of the LDX Virtual Appliance (LDX-V). Designed for functional testing, LDX-V Plus is also capable of generating 4Gbps per virtual appliance (1Gbps per virtual test port). In addition, restrictions on Actions per Second, Concurrent Scenarios, IP Addresses and MAC addresses that were applied on LDX-V Standard have been removed. Requires LDX-V License Server 5.0 or higher.
Keystone API v3 Authentication (TDE only)	Version 3 of the OpenStack Identity service called Keystone is the latest and current version of the Keystone API. LDX adds support for version 3 of the Keystone Authentication APIs, over both HTTP and HTTPS. Both JSON and XML requests and response bodies are available.
New Scenario Control Actions and Functions (TDE only)	The Load Dynamix Scenario Control Actions and Functions are critical for advanced users in defining complex workloads. Several essential Scenario Control Actions (e.g. If-Then-Else, Log Message, Set Auto Offset, etc.) and Functions (e.g. Distribution, IOManager, etc.) that were previously in Experimental mode are now available for general use. These new features allow users to create workloads that were either previously impossible or very cumbersome.
Increased LUNs per Port	The maximum number of LUNs that can be accessed by a single LDX FC Port has been increased from 511 to 2048.

¹ All features labeled as "TDE only" in this section are supported in LDX-E using the Run As-Is function in LDX-E.

TDE

Feature	Function / Benefit
Common Workload Library (Part 2)²: Workloads	The Common Workload Library (CWL) Part 1 that was introduced in the previous version gave users the ability to browse TDE Projects on an LDX-E Server from the TDE UI, make modifications and easily save the TDE Project between TDE and LDX-E. In Part 2, the capability is extended to LDX-E Workloads, giving users the ability to easily customize the LDX-E Workloads.
64-bit TDE	TDE can now run as either a 32-bit or 64-bit application on 64-bit Windows OS. In addition, the TDE also includes .NET 4.0 that's native to Windows 8 and Windows 10.
"Find" function in Scenario Editor	When working with Projects with a very large number of Actions (100+) in a single Project, it can be difficult to find a specific Action. The new "Find" function allows you to enter a keyword, and TDE will automatically find and direct you to the Action that matches the keyword.

² CWL (Part 2) requires LDX Enterprise 5.0.



Sales
sales@virtualinstruments.com
1.888.522.2557

Training
training@virtualinstruments.com

Website
virtualinstruments.com