

# Enteros Load Test 2.0

## Load2Test™



**Enteros Load Test 2.0** is an integrated, extensible load-testing platform for scalability validation and root cause analysis prior to production deployment. Comparing to legacy solutions, **Load2Test** Product provides tremendous acceleration to load test development, execution, and concurrent problem root cause analysis. It can be applied to custom, composite, and packaged applications. Customizable reporting and open analytics provide efficient visualization of load test results to technical and executive audiences. Its unique approach to scalability validation reduces load test development time by 80%, enables load testing teams to identify exact root causes of load test bottlenecks, and accommodate operation within a wide range of applications, load levels, and environments.



### Reduce load test development effort by 80%

Load testing has become an essential part of the development process for business-critical applications. Testing scalability prior to deployment results in significant cost savings and reduction of operational risk, but the act of load testing itself is tedious, resource-intensive, and costly. Load2Test significantly reduces the cost of load testing through the use of non-proprietary test scripting languages, SQL and network protocol sniffers and parsers, and zero dependence on data entry scripting.

### Cut Test-Debug-Fix cycle time in half

Achieving acceptable levels of scalability often requires several attempts, as performance problems are identified, analyzed and resolved. Load2Test integrates advanced Root Cause Analysis directly into the load test framework, enabling Just-In-Time analysis and even concurrent analysis of individual load tests. Everything needed to determine the cause of performance problems limiting scalability is at hand seconds after a load test begins execution. The resulting compression to test-debug-fix cycle times is 50% or more.

### Standardize load testing across the enterprise

Load2Test was designed for real-world load testing, across a wide range of application architectures, loads, and environments. Advanced concurrency engineering of Load2Test enables **10,000s** concurrent sessions to be executed from a single test node. Easy to deploy and run with small runtime footprint, Load2Test is suitable for all load testing scenarios. Its back-end-centric load drivers are capable of producing very high loads very efficiently. The runtime framework is compatible with web applications, SOAP-based and RESTful web services, and desktop applications, as well as the database, web and application servers that drive them.



# Key Features

## Load Test Development

### Network protocol sniffers and parsers

Let Load2Test's library of network protocol sniffers and parsers do the work so you don't have to. Intelligent parsing of network traffic and database activity reduces test script authoring efforts by as much as 80%.

### Non-proprietary Scripting Languages

Author and extend load test scripts using non-proprietary languages such as Java, Groovy, Ruby, and Python.



### No User Interface Dependencies

Avoid tedious test definition maintenance caused by UI changes because Load2Test definitions have no dependencies on user interface design.

## Load Test Execution

### Negligible footprint

Minimal overhead during execution makes it safe to apply in any environment.

### 100% pure Java

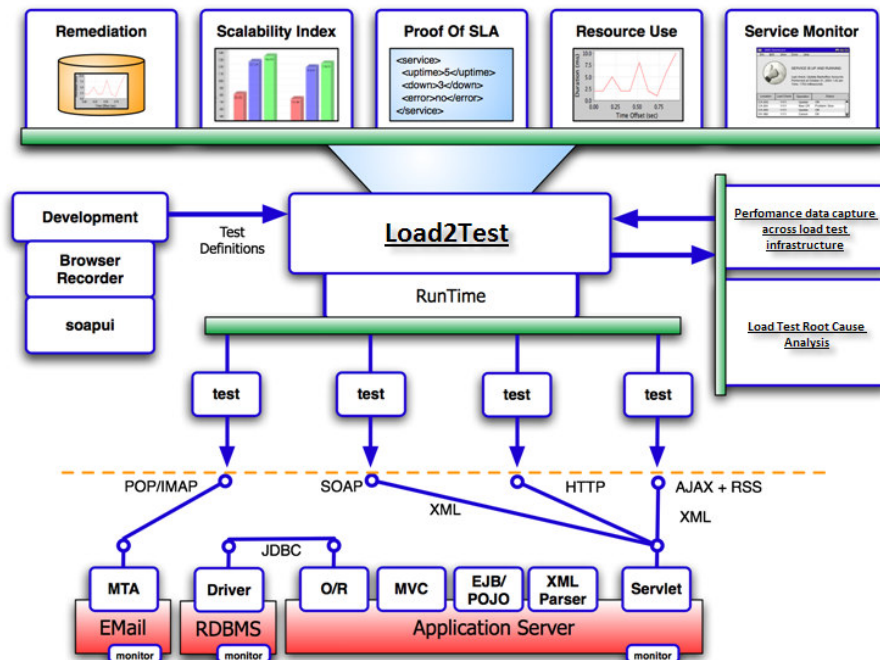
Load test execution runs on any platform that supports JVM (J2SE 1.5+) because the execution components are 100% pure Java.

### Compatible with custom, composite and packaged applications

Apply to a wide range of application architectures, including web applications, SOAP-based or RESTful web services, and desktop applications. Most architectures can be accommodated because the runtime framework operates at the infrastructural component level.

### Concurrent collection of performance data

Collect performance statistics for databases, web servers and application servers concurrent with test execution, so that root cause analysis can be performed the moment a test finishes.



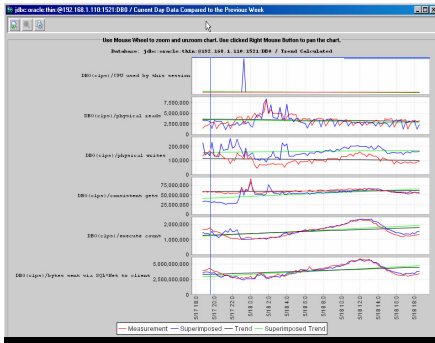
## Root Cause Analysis (RCA)

### Transparent transfer of load test results

Spend zero time importing performance statistics because no import is necessary; RCA analysis and load test execution are fully integrated.

### Advanced, cross-tier root cause analysis

Identify performance limiters down to the level of individual infrastructure components using data and results generated by load test. Visualize and correlate performance behavior across application tiers.



### Automatic Bad SQL Identification

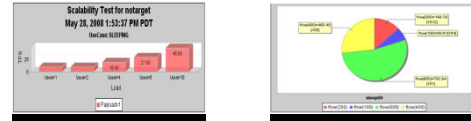
Automatic ranking of SQL by performance costs identifies poorly performing SQL code quickly and precisely.

Hash Value	SQL (Hold Mo...	Top Value	Total Executio...	Avg Buffer Get...	Avg Disk Rea...
600307446	SELECT P Sale...	150,841	150,841	0.59	0.56
3103766504	SELECT P Offer...	91,615	91,615	9.66	0.6
3316429131	SELECT P Sale...	89,316	89,316	0.685	0.88
1844131110	SELECT P Sale...	58,686	58,686	1.97	0.3
1477343886	SELECT P Tran...	34,776	34,776	1.03	0.03
3549906283	select TO_CHA...	24,145	24,145	1.63	0
3814522649	SELECT P Offer...	18,247	18,247	0.41	0.17
2057869313	SELECT P Sale...	18,125	18,125	0.045	1.89
2292834205	SELECT P Sale...	15,843	15,843	8.58	4.52
3977017273	SELECT P Sale...	15,337	15,337	5	0.02
1168271026	update SPLEXS...	14,505	14,505	8.39	0
3717435990	SELECT P Sale...	12,960	12,960	13.305	0.42
2057700606	SELECT P Sale...	12,611	12,611	16.56	0.65

## Reporting and Analytics

### Load Performance Reporting

Get immediate feedback on load performance through summary reports and charts of key performance statistics.



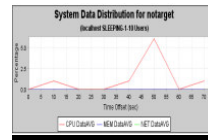
### Scalability Index Reporting

Automatic calculation, reporting and charting of Enteros's scalability index for system under test (SUT).



### Service Level Agreement (SLA) Compliance Reporting

Automatic calculation, reporting and charting of SLA compliance for system under test (SUT).



### Executive-level Summary Report

Automatically generate summary test reports that highlight key findings in a concise format for busy CIOs and CTOs.

### Open Data Repository

Apply other analytics tools to data generated by Load2Test. Its open data repository and published schemas enable easy access.

# Load2Test Summary

## Summary of Benefits

- Reduce load test development effort by 80%
- Cut Test-Debug-Fix cycle time in half
- Standardize load testing across the enterprise

## Summary of Features

### Load Test Development

- Automated load test creation based on Intelligent Web 2.0 and database protocol parsers
- Non-proprietary Scripting Languages
- No User Interface Dependencies/Full Command line support

### Load Test Execution

- Concurrent performance statistic collection
- Negligible footprint
- 100% pure Java
- Compatible with custom, composite and packaged applications

### Integrated Root Cause Analysis

- Real time tracking of load test bottlenecks
- Cross-tier root cause analysis (App. Server/databases/servers/SAN/etc)
- Automatic Bad SQL Identification

### Integrated Reporting and Analytics

- Pre-packaged Load test performance reports (technical and executive formats)
- Scalability index reports
- SLA Compliance reports
- Executive summary reports
- Open data repository
- Report generation language

## Supported Infrastructures

Hardware Platforms	OS	Databases	Application Servers	Load Test Scripting	Load Test Protocols	Database Protocols
intel AMD RISC	UNIX Linux Windows	ORACLE Microsoft SQL Server IBM DB2 SYBASE MySQL	Microsoft .net ORACLE FUSION MIDDLEWARE ORACLE 10g JBoss WebSphere	Java Java Script ActionScript Ruby	HTTP HTTPS XML SOA AJAX SNMP	JDBC
Partners						

## Integral Part of Enterprise Production Performance Management (EPPM) Platform

Load2Test is an integral part of Enteros's innovative EPPM platform that supports performance problem management across the enterprise over all stages of the performance problem lifecycle. The complete EPPM platform includes **Grid2Go™** for proactive, fine-grain, multi-application performance problem identification; **DBAct™** for real-time performance problem remediation of databases; **Performance Explorer-i™** for rapid, graphical root cause, change impact and scalability analysis of databases; **High Load Capture™** for rapid, graphical root cause and scalability analysis of multi-tiered applications; and **Load2Test™** for performance validation with integrated load testing and load test root cause analysis.

## About Enteros

Enteros helps our customers reduce and mitigate the risk of business-impacting outages and degradations caused by enterprise performance issues. We have the only comprehensive software platform focused entirely on Enterprise Production Performance Management and proven to increase the availability of business-critical systems at companies like eBay, Yahoo, and Adobe. In business since 2004, Enteros is privately held. Our headquarters are located in Santa Clara, CA, with offices in Boston, Israel, and Ukraine.

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