

# AppsLoad for Windows

Load stress testing solution of any Windows-based client application.

Predicts user-specific system performance problems

Simulates end-to-end data processing loads (server client, Citrix/TS, Web client).

Identifies bottlenecks (number of users, number of applications, LAN/WAN, etc).

## An innovative technology

AppsLoad tool saves and simulates user actions in ANY Windows-based client application and relays these actions automatically for load testing purposes. It is independent of the protocol used

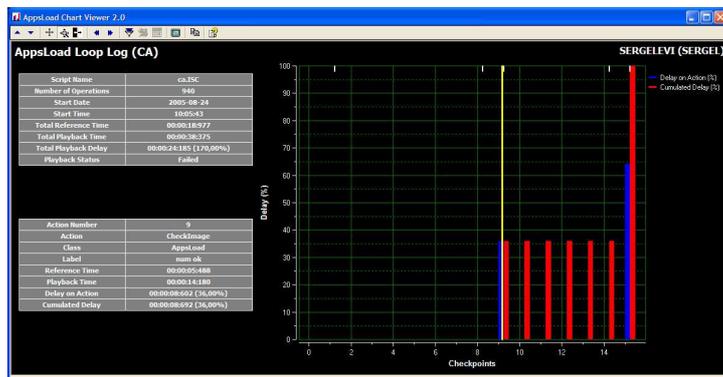
## Scriptless and protocol independent

You are not required to develop complex scripts. Simply save a sequence of actions and replay this sequence. In this way, it takes 10 minutes to develop a scenario of 10 minutes, whereas traditional scripting tools sometimes require several days of testing.

The other advantage to recording action sequences is that the result obtained reflects real user activity (keyboard striking timeframes, mouse movements, etc.) whereas a traditional scripting tool generally reflects the result of an action and not the sequence used to arrive at the result.

## An intelligent tool for load testing

When executing a scenario, AppsLoad tests the graphical context of scenario execution on a continuous basis so that it remains synchronized with the reference scenario. This method can be used to adapt scenario execution speed to system constraints in real time and to precisely calculate application response times.



AppsLoad chart Viewer

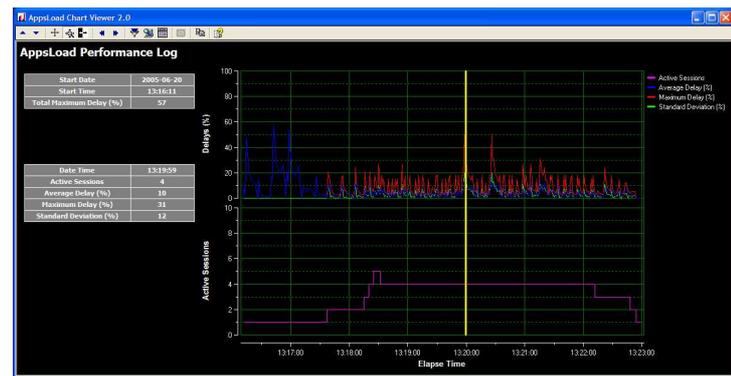
For each test loop, AppsLoad generates logs and graphics that quickly highlight any malfunctions. If the execution time of scenario exceeds a predefined time limit, alarms can be generated and events triggered.

Comprehensive diagnostics and response time breakdowns enable you to isolate the slow or failure in an application.

## A clear and immediate graphical analysis.

A simple and immediate graphical analysis determines most notably the following during tests campaigns:

- Application timeframe variations on an accumulative basis between each user action.
- Breaking points in terms of timeframes, number of users, sessions, etc.
- Correlation between processing timeframes and bottlenecks.
- Limits related to the bandwidth



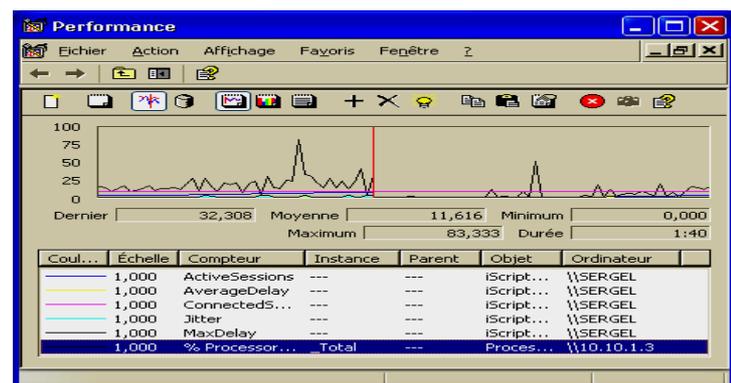
Appsload real time chart

## Complete variable management.

AppsLoad can use either local (by user or user group) or global (for all simulated users) variables in test campaigns.

## An interface with Performance Monitor.

You can inject AppsLoad counters in the Microsoft Performance Monitor to make immediate correlations between performance degradation recorded and server system counters



## Centralized test administration.

Once a scenario is recorded, it can be deployed with the « Appsload Management Console » to simulate as many virtual users as requested. The AppsLoad administration Console can be used to drive a large number of virtual application sessions and use all the logs from a central viewpoint. You can view at a glance the impact of 10 additional virtual users on the processing response times of a platform.



*AppsLoad Management Console*

## How AppsLoad works

AppsLoad is made up of four modules. The agent, which records/replays the scenarios and simulates a virtual user, the management console, the graphical module and the LaunchPad. The LaunchPad manages the injectors (TS or Citrix servers) used to create virtual users.

The purpose of the product is to determine the impact of loads on the system performance. To do so, you record a scenario that provides the reference time. The scenario is then replayed on the injectors that generate the load. The management console centralizes system performance recorded that it compares on an ongoing basis to the reference time.

AppsLoad provides most notably the following counters:

- Number of agents playing a scenario
- The average processing response time.
- The standard deviation response time.

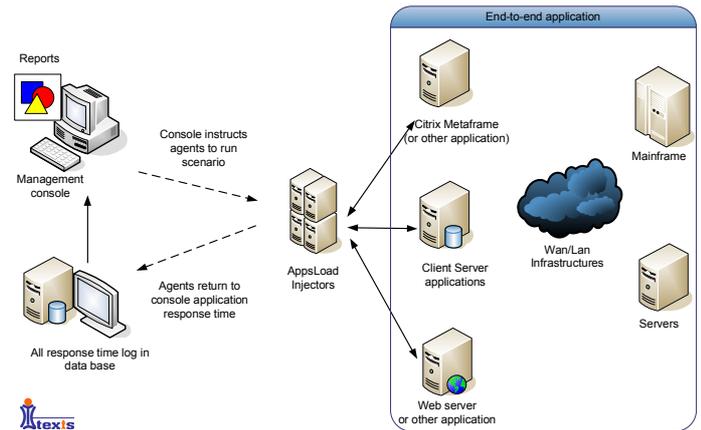
Depending on the location of the injectors in the system architecture, AppsLoad can integrate the impact of a Wan network in its counters.

All AppsLoad logs are recorded on a Microsoft SQL data base.

## Other features:

- Login and password encryption.
- License server
- Support several management consoles simultaneously.
- Choice to allocate agents on different consoles based on geographical or business process criteria's.
- Screen snapshot when an alarm fired.
- Pattern matching both on windows objects and image while a scenario running.

## AppsLoad architecture



AppsLoad consumes a low level of processing resources, rarely exceeding 1% of CPU.



## Prerequisites

Windows 2000 or later, MSDE, .NET 1.1 and MDAC 2.8 (free download from Microsoft Web site).

For the management console: P4, 512Mo of RAM

For the LaunchPad : P4, 512Mo of RAM, for about 100 sessions per PC (several LaunchPad on a single PC).

For agent injectors: Biprocessors with 2Go of RAM, for about 50 virtual users.

AppsLoad is supported on Windows NT4, Windows 2000 Server, Windows XP professional and Windows 2003 Server.

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