



# CitraTest FT – Functional testing

*Automated testing for every application*

## Software development

Software development is a complex process with a variety of tasks and activities and the involvement of many disciplines. In the last few years the dynamic in software development substantially increased. Not in the least because the users want to be involved more positively in the development of their applications. As a consequence this will cause more interaction between the various parties.

One of the issues you are facing as a developer is the fact that software development never ends. New programming techniques come forward, the users demand additional functionality, other interfaces need to be built or new technical solutions are available. The rate at which software enhancements need to be performed is highly influencing the requirements for flexibility and working-method of your test and development teams.

## Testing

What has been developed must be tested. Not only the complexity of the applications increases, at the same time the quality of the delivered software must be improved. Testing is necessary to be able to control the risks and to warrant the quality. As the software product suite extends, specifications change more often or the rate increases at which new releases come out, the test teams will experience a larger work pressure.

By introducing a methodology for structured testing you will keep in control the tasks which need to be performed. The choice for e.g. Tmap, TestFrame or agile is highly dependent on the development method employed. The selected method itself is influenced to a large extent by the criteria the project needs to satisfy. Ultimately it is the end result that only matters; delivering quality software, completely tested and provided with all the documentation which needs to come with it.

## CitraTest FT

Software testing is labour-intensive. To automate the test scenarios using test tools can be very beneficial to you. Beside an efficient test method automated testing yields much profit. It translates into better productivity, faster time-to-market and

Return on Investment, lower costs and steady quality.

The CitraTest product suite includes solutions for application monitoring (APM), load testing (VU) and functional testing (FT).

Functional testing covers areas like unit, regression, smoke and acceptance tests. CitraTest FT will automate any manual process for any application. This product is very flexible, easy to use and maintain. Application changes do not or minimal affect the deployment of the test cases already built. This is due to the fact that the tool does not utilize Windows controls. Beside CitraTest FT supports Optical Character Recognition which capability enables text to be read and verified. Image verification allows for common test case creation for Windows operating systems, Web browsers, development environments and custom applications.

CitraTest FT offers optimum flexibility. Test data can be separated from the test cases. Test scenarios can be started and stopped at any moment. CitraTest FT Scenario can be deployed to execute the test cases in any desired sequence.





# CitraTest FT – Functional testing

*Automated testing for every application*

## Key features

Beside its capabilities for automation of unit, regression and acceptance testing the tool is also very much suited for load testing, benchmarking and end to end application monitoring. CitraTest supports every application that is accessible from a Windows client. This includes all web and legacy applications, every web browser, all terminal emulation modes, Citrix, Terminal server, VMWare, etcetera.

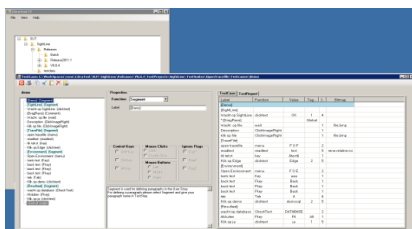
CitraTest is non-intrusive and independent of the IT infrastructure and application environment. CitraTest is an application monitoring and test tool. It can run on any PC with variable intervals. The tool provides extensive reporting capabilities, real time alerting and response time measurement.

## Development platform

Application development implies many choices have to be made. What kind of standards will be used, what is the best development method, will the GUI be Java based, which programming language is suited for off-line applications? Every language has its own characteristics. The way testing and monitoring tools can deal with this diversity is an important factor. Do changes in screen lay-outs mean that test cases need to be modified as well? How usable is the tool in complex environments with hundreds of applications and test cases?

## CitraTest FT Framework

CitraTest FT is the answer to these questions! The development of test cases is very simple and standardized by using one solution. This FT Framework contains all of the best practice test routines for every application. The actions and test functions which are specific for each application are menu-driven specified in the User Story.



The number of files can be unlimited. The test data to be used can be included in the test case or recorded separately. In this way there are no programming skills required to build these test cases.

## TFS Source Control

Developing software, making changes and maintaining several releases at the same time requires profound management of the test cases. Microsoft Team Foundation Server Source Control or SubVersion can be used with CitraTest FT for version control and administration. In that way every tester knows the right test cases and files are always used. Source Control allows all the coding and changes to be stored in a central SQL database and it also controls the security and file permissions. Likewise Source Control provides functionality for data import and export, reconciliation, version numbering, conflict management and management of the copies of the repository and the directory structures.

## CitraTest Scenario's

Defining the test scenarios requires a lot of flexibility regarding planning, workflows to be tested, ease of use and maintainability. CitraTest Scenario enables this flexibility. Via a graphical interface you can define the scenario's which are linked to the relevant test cases. CitraTest Scenario handles all of the scenario's that need to be started.

## Implementation

Simplicity is often the key to success. Complex is equal to hard to use and time-consuming. CitraTest FT implies important criteria as usable, flexible and scalable. The tool is pre configured and easy to install. Nevertheless we have a team of specialists available for you to support you if necessary.

### TrendIC B.V.

Lage Gouwe 2c  
2801 LG Gouda  
The Netherlands  
Tel.: +31 182 613945  
Email: info@trendic.nl