

Introduction TrendIC

performance & test management software

The logo for CitraTest® FT, featuring the text "CitraTest® FT" in a blue serif font inside a white rounded rectangle with a thin blue border.

Testing solution with support for every enterprise application

The logo for tevron, featuring the word "tevron" in a lowercase, blue, sans-serif font.The logo for CitraTest®, featuring the text "CitraTest®" in a blue serif font, followed by a small blue circle.

Application Performance Monitoring /
End to End monitoring & SLA metrics



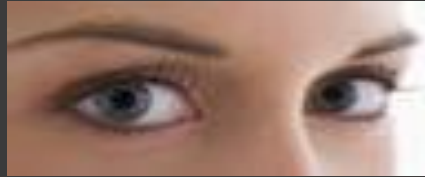
A real time operations intelligence solution
focused on analytics, root cause analysis and
correlation of data from any source – critical IT
systems, applications, storage, databases –
down to the process level

The logo for CitraTest® FT, featuring the text "CitraTest® FT" in a blue serif font inside a white rounded rectangle with a thin blue border.

Black Box versus Glass /White Box testing



“What you see is what we test”



CitraTest FT “reads” information on screen, enters data using keyboardstrokes and mouseclicks, clicks on buttons, fields, images and responds to changing screen information.



“test just like a real user”

CitraTest FT unique Features

- One tool for automated testing, load testing and performance monitoring
- Define test scenario's without programming skills
- For all platforms and all applications
(including: Progress, C++, .Net, Java, Windows, mainframes, Uniface, Citrix, and all others)
- Supports Optical Character Recognition (OCR) and image verification

The diagram illustrates the relationship between different levels of testing artifacts. On the left, a green box labeled 'Testscenario' is connected by a vertical line to a stack of three black boxes, each labeled 'Testcase'. To the right of this stack, there are three overlapping light gray boxes, each containing a list of three test steps: 'Teststep1', 'Teststep2', and 'Teststep3'. This visualizes how a single test scenario can encompass multiple test cases, and each test case can consist of multiple test steps.

Test results

- Dashboard,
- Reports, Logs
- Databaselogging

[illegible]

A test case consists of readable teststeps.

Definition of 1 test step:
any action on a screen.

- easy
- no programming

TESTCASE DEFINITION

Readable testcases, including arguments and variables

Testcase: C:\WorkSpaces\rene\CitraTest\SUT\WebSites\Releases\Release2011.1\TestProjects\TrendIC\TestSuites\WebSite\Testcases\ACMECustomer

User Story: ACMECustomer

[Testcase for ACME customer website] (Segment)
[Website] (Global)
[Home page ACME Customer] (Segment)
Search for the Word [Contact] on homepage (CheckText)
Click on Contact (ClickText)
[Contact Page] (Segment)
Search for and read the correct ZIPCODE from screen
Wait for GoogleMap image to appear (Wait)
Click on GoogleMap Image (ClickImageLeft)
Wait for the location details (Comment)
[Test Search form on ACME contactpage] (Segment)
Search for offices worldwide (ClickText)
Enter search string in Search Field (Enter)
End of testcase (FKey)
<End of script>

Properties

Function: **CheckText**

TestStep: Search for and read the correct ZIPCODE from screen

Value: 2801 LG

Option: Arial9

Bitmap:

Control Keys

☐ Shift Key
☐ Ctrl Key
☐ Alt Key

Mouse Clicks

☐ Click
☐ Double Click

Mouse Buttons

☐ Left
☐ Middle
☐ Right

Ignore Flags

☐ Ignore_Red
☐ Ignore_Green
☐ Ignore_Blue

Function Use: CheckText verifies text from the screen. Use CheckText to verify text that is unknown prior to script playback. For example, the application under test may generate a new piece of information on the screen that needs to be checked. In the column Bitmap a relative.ini file can be used to limit the search. Either a "fixed" or "relative" search area can be specified. *If no textArea is specified the default value is "NONE", which means the entire screen is read. IGNORE FLAGS can be used

TestCase TestReport

TestStep	Function	Value	TagValue	Option	Bitmap
[Testcase for ACME customer website]					
[Website]			Global		
[Home page ACME Customer]					
Search for the Word [Contact] on homepa...	CheckText	Contact		18	
Click on Contact	ClickText	Contact	1	18	
[Contact Page]					
Search for and read the correct ZIPCODE ...	CheckText	2801 LG		18	
Wait for GoogleMap image to appear	Wait			1	GoogleMap.t
Click on GoogleMap Image	ClickImage...	1		1	
* Wait for the location details				Wait For...	adress.bm
[Test Search form on ACME contactpage]					
Search for offices worldwide	ClickText	Offices		17	
Enter search string in Search Field	Enter	Netherlands		1	
End of testcase	FKey	F4	Alt	1	

Access testresults
and testcase using
1 click: allows for
fast modifications

TESTRESULTS

Testresults

- Color indicates succes
- Performance details included
- Screen captured
- Alert by email

TestCase: C:\WorkSpaces\rene\CitraTest\SUT\WebSites\Releases\Release2011.1\TestProjects\TrendIC\TestSuites\Website\Testcases\PUG

User Story: PUG

[Test customer website] (Segment)
[Website] (Global)
[Home page klant] (Segment)
Wait on customers homepage (CheckText)
Click on contact (ClickText)
[Next page] (Segment)
Wait on contact page (CheckText)
Wait on contact page (Wait)
End Application test (FKey)
Check all Website wit CitraTest (RunTestScript)
<End of script>

Properties

Function: RunTestScript

TestStep: Check all Website wit CitraTest

Value: C:\Program Files (x86)\CitraTest\test\Projects\project

Control Keys

☐ Shift Key
☐ Ctrl Key
☐ Alt Key

Mouse Clicks

☐ Click
☐ Double Click

Mouse Buttons

☐ Left
☐ Middle
☐ Right

Ignore Flags

☐ Ignore_Red
☐ Ignore_Green
☐ Ignore_Blue

TestCase TestReport

script.trace.log

```
24/10/2011, 10:49:48.8 Image File does not exist C:\WorkSpaces\rene\CitraTest\SUT\WebSites\Releases\Release2011.1\TrendIC_Website_PUG
24/10/2011, 10:49:48.8 Image File does not exist C:\WorkSpaces\rene\CitraTest\SUT\WebSites\Releases\Release2011.1\TrendIC_Website_PUG
24/10/2011, 10:49:50.0 Verify Text Contact successful
24/10/2011, 10:49:50.1 StopTimer Wacht op Klant homepage
24/10/2011, 10:49:50.1 Wacht op Klant homepage Duration is 2.2 secs
24/10/2011, 10:49:50.1 StartTimer Click on contact
24/10/2011, 10:49:50.9 1 ClickOnText Contact successful
24/10/2011, 10:49:51.0 StopTimer Click on contact
24/10/2011, 10:49:51.0 Click on contact Duration is 0.9 secs
24/10/2011, 10:49:51.0 StartTimer Einde programma
24/10/2011, 10:49:51.0 KeystrokeVK VK_ALT, KEY_DOWN
24/10/2011, 10:49:51.0 KeystrokeVK VK_F4, KEY_PRESS
24/10/2011, 10:49:51.1 KeystrokeVK VK_ALT, KEY_UP
24/10/2011, 10:49:51.1 StopTimer Einde programma
24/10/2011, 10:49:51.1 Einde programma Duration is 0.1 secs
24/10/2011, 10:49:51.1 StartTimer Check all Website wit CitraTest
24/10/2011, 10:50:40.0 StopTimer Check all Website wit CitraTest
24/10/2011, 10:50:40.0 Check all Website wit CitraTest Duration is 48.9 secs
24/10/2011, 10:50:40.0 StopTimerFail WebSites_Release2011.1_TrendIC_Website_PUG
24/10/2011, 10:50:40.0 WebSites_Release2011.1_TrendIC_Website_PUG Duration is 57.6 secs
24/10/2011, 10:50:40.1 Generate Alert to support@trendic.nl, CitraTest ScriptFail Alert: WebSites_Release2011.1_TrendIC_Website_PUG
24/10/2011, 10:50:40.5 Capture Screen Success for C:\WorkSpaces\rene\CitraTest\ScriptFailScreenCapture
24/10/2011, 10:50:40.5 Script End
```

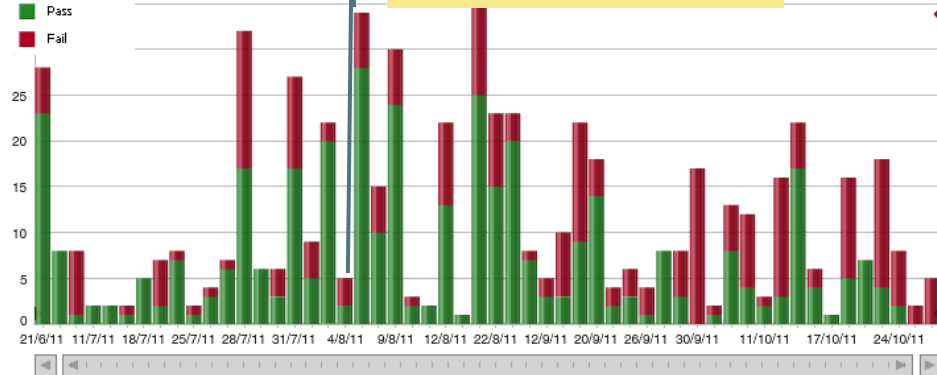
24/10/2011, 10:50:40.5 Script Fail

DASHBOARD

Testresults and performance details

Graphical summary of all testcases executed

TestCases	date
SightLine_V8.0.4_EAV_OpenTracefile_demo	26/10/11 13:07:27
SightLine_V8.0.4_EAV_OpenTracefile_demo	26/10/11 12:58:51
SightLine_V8.0.4_EAV_OpenTracefile_demo	26/10/11 12:57:09
SightLine_V8.0.4_EAV_OpenTracefile_demo	26/10/11 12:56:39
SightLine_V8.0.4_EAV_OpenTracefile_demo	26/10/11 12:48:49
SightLine_V8.0.4_EAV_OpenTracefile_demo	25/10/11 09:33:21
SightLine_V8.0.4_EAV_OpenTracefile_demo	25/10/11 09:30:17
project1	24/10/11 10:49:56
WebSites_Release2011.1_TrendIC_WebSite_PUG	24/10/11 10:49:42
project1	24/10/11 10:48:39
WebSites_Release2011.1_TrendIC_WebSite_PUG	24/10/11 10:03:37
WebSites_Release2011.1_TrendIC_WebSite_PUG	24/10/11 10:00:33
WebSites_Release2011.1_TrendIC_WebSite_PUG	24/10/11 09:59:52
WebSites_Release2011.1_TrendIC_WebSite_Brabant	20/10/11 12:00:40
WebSites_Release2011.1_TrendIC_WebSite_Brabant	20/10/11 11:54:47
WebSites_Release2011.1_TrendIC_WebSite_Brabant	20/10/11 11:48:51
WebSites_Release2011.1_TrendIC_WebSite_Brabant	20/10/11 11:39:13
WebSites_Release2011.1_TrendIC_WebSite_Brabant	20/10/11 11:36:49
WebSites_Release2011.1_TrendIC_WebSite_Brabant	20/10/11 10:40:01
WebSites_1_T_W_Brabant	20/10/11 10:28:55
project1	20/10/11 10:21:50
project1	20/10/11 10:17:00
WebSites_1_T_W_Brabant	20/10/11 10:09:46
WebSites_1_TrendIC_WebSite_Brabant	20/10/11 10:07:08
WebSites_Release2011.1_TrendIC_WebSite_Brabant	20/10/11 10:03:55
WebSites_Release2011.1_TrendIC_WebSite_Brabant	20/10/11 09:59:54
WebSites_Release2011.1_TrendIC_WebSite_Brabant	20/10/11 09:52:56
project1	18/10/11 14:59:34
project1	18/10/11 14:57:13
project1	18/10/11 14:53:13
project1	18/10/11 14:50:24
project1	18/10/11 14:41:46
project1	18/10/11 14:34:46
WebSites_Release2011.1_TrendIC_WebSite_Brabant	18/10/11 11:36:41
WebSites_Release2011.1_TrendIC_WebSite_Brabant	18/10/11 11:31:56
WebSites_Release2011.1_TrendIC_WebSite_Brabant	18/10/11 11:30:19
WebSites_Release2011.1_TrendIC_WebSite_Brabant	18/10/11 11:09:49
WebSites_Release2011.1_TrendIC_WebSite_Brabant	18/10/11 11:09:19
3.4_NOS_Teletekst_binnenland	14/10/11 10:17:30
WebSites_Release2011.1_TrendIC_WebSite_Brabant	14/10/11 10:14:02
WebSites_Release2011.1_TrendIC_WebSite_Brabant	13/10/11 15:03:42
SightLine_Release2011.1_TrendIC_WebSite_TrendIC	13/10/11 14:20:15
SightLine_Release2011.1_TrendIC_WebSite_TrendIC	13/10/11 10:58:18
SightLine_V8.0.4_SightLine_OpenTracefile_demo	13/10/11 10:55:05
SightLine_V8.0.4_SightLine_OpenTracefile_demo	13/10/11 10:54:05
SightLine_Release2011.1_TrendIC_WebSite_TrendIC	12/10/11 13:30:47
SightLine_Release2011.1_TrendIC_WebSite_TrendIC	12/10/11 13:28:44



CitraTest® FT

TestSteps

Date	TestStep	Status	Duration (Sec.)
26/10/11 13:07:32	readtext	Pass	49.7
26/10/11 13:07:31	Wacht op file	Pass	0.0
26/10/11 13:07:31	Description	Pass	0.3
26/10/11 13:07:31	open tracefile	Pass	0.8
26/10/11 13:07:30	Wacht op SightLine	Pass	0.8
26/10/11 13:07:27	SightLine_V8.0.4_EAV_OpenTracefile_demo	Fail	54.6
26/10/11 12:58:56	readtext	Pass	49.6
26/10/11 12:58:55	Wacht op file	Pass	0.0
26/10/11 12:58:55	Description	Pass	0.3
26/10/11 12:58:55	open tracefile	Pass	0.8
26/10/11 12:58:54	Wacht op SightLine	Pass	0.8
26/10/11 12:58:51	SightLine_V8.0.4_EAV_OpenTracefile_demo	Fail	54.4
26/10/11 12:57:09	SightLine_V8.0.4_EAV_OpenTracefile_demo	Fail	0.4
26/10/11 12:56:39	SightLine_V8.0.4_EAV_OpenTracefile_demo	Fail	0.4
26/10/11 12:49:17	readtext	Pass	49.6
26/10/11 12:49:12	klik op file	Pass	0.4
26/10/11 12:49:12	open tracefile	Pass	5.0
26/10/11 12:49:11	Wacht op file	Pass	0.2
26/10/11 12:49:07	Wacht op SightLine	Pass	4.0
26/10/11 12:48:50	SightLine_V8.0.4_EAV_OpenTracefile_demo	Fail	76.6

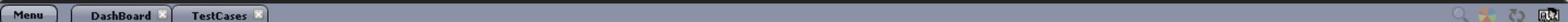
CitraTest FT :: TestCases

TestCase Duration

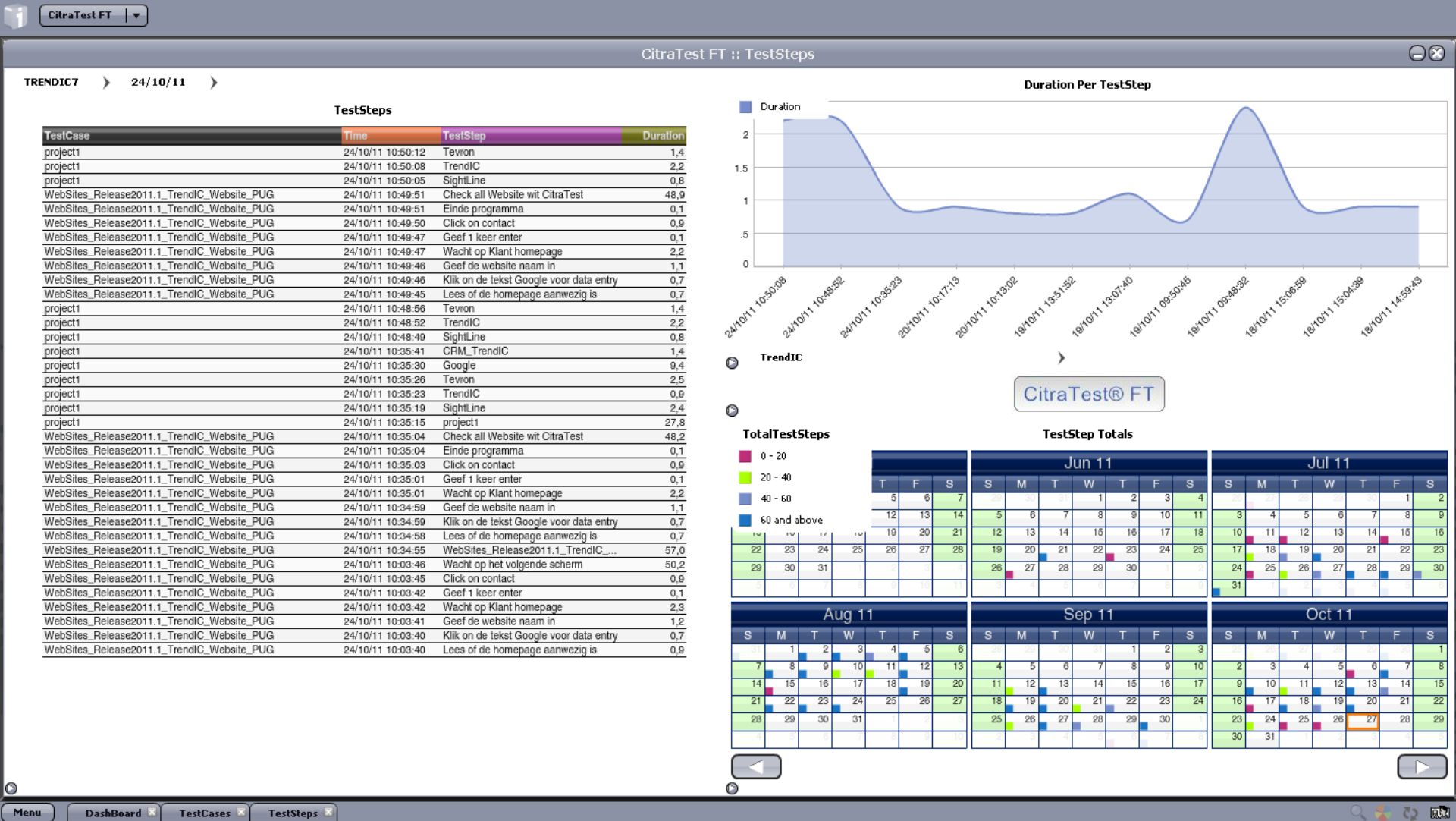
TestCase	Date	Status
1.1_SightLine_OpenTracefile_demo		
1.1_SightLine_OpenTracefile_demo_demo		
1.1_SightLine_OpenTracefile_demo_demo.csv		
1.1_SightLine_OpenTracefile_Test		
2.1_TrendIC_WebSite_CBS		
2.1_TrendIC_WebSite_dehypotheke		
2.1_TrendIC_WebSite_dekant		
2.1_TrendIC_WebSite_Dela		
2.1_TrendIC_WebSite_Dela_dela		
2.1_TrendIC_WebSite_detelefoongids		
2.1_TrendIC_WebSite_FINAN		
2.1_TrendIC_WebSite_Flusso_Flusso		
2.1_TrendIC_WebSite_HAVI		
2.1_TrendIC_WebSite_Itomedical		
2.1_TrendIC_WebSite_Klant		
2.1_TrendIC_WebSite_TrendIC		

CitraTest® FT

Total TestCases



TESTSTEP DASHBOARD



ADVANTAGES CITRATEST FT

- One test tool for all company applications & systems
- Maintainability
 - Central resources for images
 - Reusable components (global procedures)
 - Testcases are easy to define, read, copy, modify
- Robust for screen lay out changes
- Data driven testing: use of external data
 - Data entry
 - Language support
- Optional links with other systems:
 - Requirements management
 - Software source control
 - Bug tracking, issue management

FIT FOR ALL ENVIRONMENTS



Every Application Environment

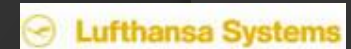
Every Virtualization Environment

Every Cloud Computing Environment

BENEFITS OF CITRATEST FT

- More releases, shorter development cycles, faster time to market
- Reduce effort & time for testing
- Reduce software errors
- Avoid claims, recovery actions & support
- Improve reputation & higher customer satisfaction

CITRATEST USERS



Informatie, demonstratie, Proof of Concept?

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