

# Getting started with OpenCTF

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*A short guide for the first steps with the Open Source Component Test Framework*

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## Introduction

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### About OpenCTF

#### How can I use it?

The OpenCTF component test framework helps to build automatic tests for all (visual and non-visual) VCL components in a Delphi application. It is based on the DUnit framework.

#### How does it work?

- OpenCTF iterates over all specified Forms and DataModules and dynamically creates DUnit test cases for selected components
- Customized test classes detect which components have to be tested, and configure the test steps

#### How can it help me?

OpenCTF provides an easy way to build automatic quality checks for large projects where many components have to pass repeated tests.

Here are some examples:

- detect missing or wrong property values - e.g. Buttons without assigned Actions, DataSources without associated DataSet
- detect unassigned event handlers - e.g. missing OnExecute event
- check that all DataSets can be opened
- check the tab order
- find invisible components (e.g. invisible TabSheets which better should be hidden at runtime)

#### Is it easy to use?

Creating and customizing tests for your specific needs is very easy:

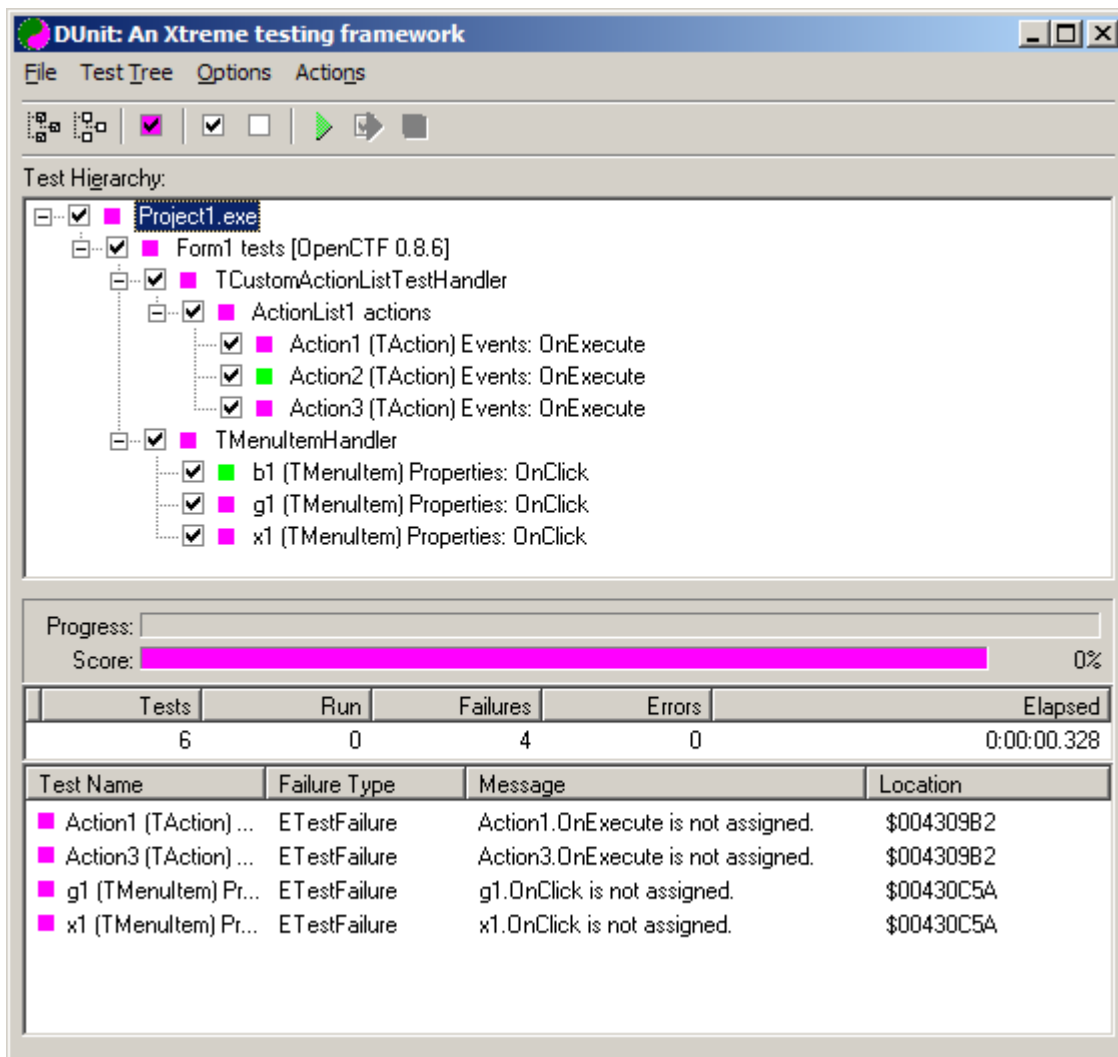
- Adding OpenCTF tests to a DUnit test suite requires only one or two lines of code
- Writing your own custom component tests is simple, many examples are included in the source distribution

#### Hosted on Sourceforge

- OpenCTF is hosted on Sourceforge:  
<http://sourceforge.net/projects/openctf/>
- API documentation is available online at <http://openctf.sourceforge.net/>

## Key features:

- easy to use and extend
- includes example tests (including simple test for ADO, dbExpress, IBO, IBX, IntraWeb, JvUIB, QuickReport, Rave and TNT/TMS Unicode) and example projects
- contains the full source code
- based on [DUnit](#)



## Example Test Program

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### Simple Example

```
program Program1;

{$APPTYPE CONSOLE}

uses
  OpenCTF,
  OpenCTFRunner,
  ctfTestActnList,
  ctfTestControls,
  ctfTestMenus,
  TForm in 'TestForm.pas' {Form1};

begin
  // Register Form classes
  OpenCTF.RegisterFormClasses([TForm1]);
  // run the tests
  OpenCTFRunner.Run;
end.
```

In this example, the framework will run all registered tests on an instance of TForm1.

## Release Notes

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### Version 1.1

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