CADDY
Conformity Test Software

User's Guide

October 2, 2002

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1 Introduction

1.1 CADDY Conformity Test Software Overview

In order to use CADDY dossiers for exchange and archiving purposes, conformity to the CADDY format must be ensured. For this, a conformity test tool is needed. The conformity test software must report deviations from the CADDY format specification for a given dossier version on CD-ROM.

CADDY Conformity Test Software scans CADDY CD sets for many conditions. For a description of the CADDY format see the CADDY format specification that is part of the distribution package. The CADDY Conformity Test knowledge base comprises over 100 known bugs and other problems.

The Conformity Test Software was developed by Hewlett-Packard for the European Crop Protection Association (ECPA). It is distributed as freeware that should be used by everybody to check CD sets for CADDY conformity.

Target Users

The Conformity Test Software was developed for supporting **CADDY experts from authorities and industry**. It is a tool that can check if a given dossier version is CADDY compliant or not. Interpretation of the test results requires detailed knowledge of the CADDY format specification. Additionally, it is assumed that the user is familiar with Microsoft Windows.

See also

CADDY Format Specification Compliance
CADDY Project History

1.2 CADDY Format Specification Compliance

*Testing can only demonstrate the presence of defects, not prove their absence.
The objective of testing is thus to find defects and the extent of that quest
is limited by economics.*

Software Quality And Productivity Guide, HP Corporate Engineering

General

No conformity test can prove the absence of any deviation from the format specification. The Conformity Test Software only proves the correctness of properties that are defined in the test tree. Therefore **a successful test is not a 100% guarantee for a CADDY CD to be error free**.

The current software is capable to check CADDY 1.1 and CADDY 2.0 dossiers.

Dossier Versions

The application allows the user to perform a format conformity test for a single version of a dossier. The test of dossier version "n" assumes that version "n - 1" was already tested successfully!

CADDY Volumes

The volumes are checked for proper label files and directory structure.

The **ISO 9660 conformity of the CDs is not checked** by the CADDY Conformity Test Software and might be checked with other applications.

Index Files

Each index file is read line-by-line, analyzed for the general index file format and imported into an internal database for further analysis. The relations and constraints within this database are checked.

Page Files

Each page file is analyzed and checked for allowed and forbidden tags.

The **TIFF 6.0 conformity is not checked** by the CADDY Conformity Test Software and might be checked with other applications.

See also

CADDY Conformity Test Software Overview
CADDY Project History

1.3 CADDY Project History

At the beginning of 1995 a discussion about the development of an electronic dossier exchange standard for pesticides registration applications in Europe started. The need for standardization of an electronic format for the submission of pesticides dossiers is obvious. Representatives from regulatory authorities and industry expressed their strategic goal in the following statement:

To facilitate

- the provision of dossiers for pesticides to regulatory authorities,
- the long-term archiving of such dossiers,
- and the accessibility of information contained in such dossiers

in a cost-effective manner using electronic media.

The Joint EU Member States / ECPA Data Transfer Steering Group (DTSG) consisting of five experts of the EU and five experts of the ECPA registration task force was established in June 1995 to work out a solution to meet this strategic goal.

CADDY Format Specification

The CADDY Format Specification is a document that describes the CADDY standard.

CADDY version 1.0

The first version released was called CADDY 1.0. This version was a result of the discussion between EC, EU Member States and ECPA members about a common dossier interchange format on electronic media. The specification for CADDY 1.0 (Version 0.7, January 31,1996) was published after

being accepted by EC, EU Member States and ECPA. CADDY 1.0 was not used for compiling dossiers and is not supported any longer.

CADDY version 1.1

The second version, called CADDY 1.1, was released September 23, 1997. This enhanced version was created from CADDY 1.0 by adding some minor adjustments that makes it usable in the United States and Canada too. There was an addendum to the format specification CADDY 1.1 released on February 24,1998. CADDY 1.1 was used to submit European dossiers and must therefore be supported by all current CADDY viewers.

CADDY version 2.0

The current version is called CADDY 2.0. This enhanced version was created from CADDY 1.1 by adding some enhancements that were requested by European authorities. The format specification (CADDY 2.0) was enhanced by adding support for CADDY controlled files, CADDY hyperlinks and other features that were agreed upon by the Joint CADDY Steering Group.

2 Basic Concepts

2.1 Test Areas

The tests are grouped into test areas. These can be found within the test tree on the first hierarchy level.

Volume Set Conformity (VSC)

- Does content of label file corresponds to the format specification?

- Is the directory structure on each volume correct?

- Do the mandatory index files exist on the current index volume?

Index File Syntax (IFS)

- Does the syntax of all existing index files conform to the general index file format?

- Import the index files of the current dossier version to the corresponding index tables.

- Are fields declared as unique really unique?

Index File Conformity (IFC)

- Are the contents of the table 'Additional remarks on fields' (see Format Specification) fulfilled?

- Is the entity relationship diagram (see Format Specification) for the dossier database fulfilled?

- Are fields declared as unique really unique?

Index File History Check (IFH)

This test area is only applicable for dossier versions higher than 1 because a previous version is needed.

- Import the index files of the previous current dossier version to the corresponding index tables.

- Are all new entries in the changes history conform?

- Is each history table of the previous version a subset of the corresponding history table of the current version?

- Are flags for added items correct?

File Completeness Check (FCC)

- Do all page files exist on the right volumes?

- Do all controlled files exist on the right volumes?

Page File Conformity (PFC)

- Is the format of the page files (TIFF files) correct?

For each volume of the current dossier version the format of the TIFF files is checked for CADDY conformity. The TIFF Tag Test LOG will contain a detailed list of the results.

2.2 Test Tree Concept

The idea behind the test tree concept is to build a hierarchy, where the result of a test depends on the results of all subordinate tests (sub-tests). A test at a higher level is successful if and only if all of its sub-tests are also successful. Each such sub-test is only a component of the whole test, i.e. a sub-test only covers a part of the scope to be tested at the higher level.

A tree structure is suitable for representing this relationship between tests and sub-tests. Each node in the test tree represents one test.

The root of the test tree represents the whole CADDY conformity test. For this test, all subordinate tests must be executed, i.e. the whole test tree must be traversed. The child nodes of the root are called Test Areas. The leaves of the tree are called **Basic Tests** (BT). They are the elementary components of their parent nodes and generally confined to the testing of elementary facts (e.g. syntax test of one index file). All other tests that are neither test areas nor basic tests are called **Test Groups** (TG).
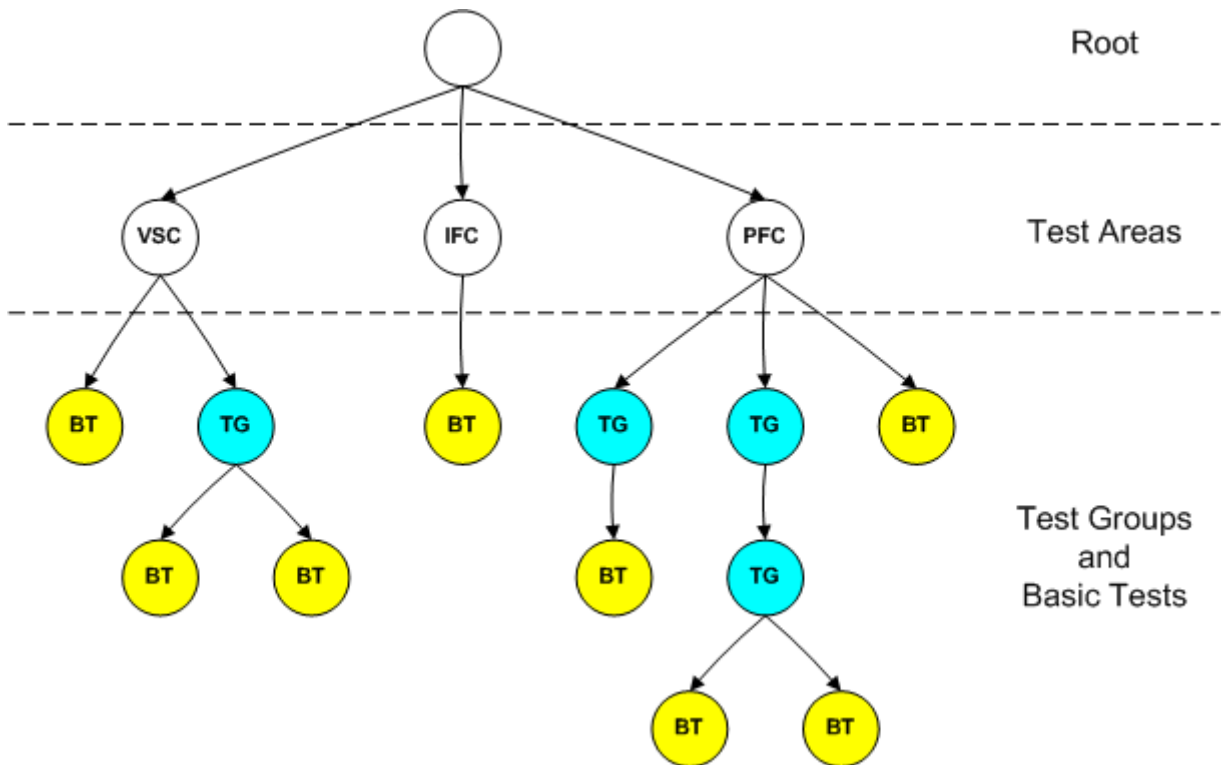
The test tree concept allows the user to select and execute only a specific sub-tree of the test tree, making the testing process very flexible. It is a dynamic structure that allows to add tests during runtime.

Two examples:

- History checks: Two cases must be distinguished: In dossier version one the history check area (IFH) is missing, in higher versions it is part of the test tree.
- TIFF tests: One basic test is created for each volume.

In some cases, tests must be performed successfully before other tests can be started, e.g. if one test is based on the results of another. This fact must be considered before each test is executed; therefore preconditions are stored for every test.

In other cases, before performing a test, preparatory operations must be performed (e.g. reading files). These preparatory operations are also considered tests.

2.3 Conformity Test Steps

Testing of a CADDY dossier version is done in four steps:

Create New Test Tree

> For a dossier version that is to be tested a test tree must be created first. The properties of a test tree can be changed after creation (see Test Tree Properties).

Read Volume Step

> During this phase all index files and label files are copied from the volume to the test tree directory.

Performing Tests Step

> The selected tests from the test tree will be performed.

Printing / Exporting Results Report

> Exporting or printing a result report should document the results. To avoid accidental changes of the test results the test tree can be protected (see Protect / Unprotect Test Tree). After the results were printed and/or exported the test tree can be deleted (see Delete Test Tree).
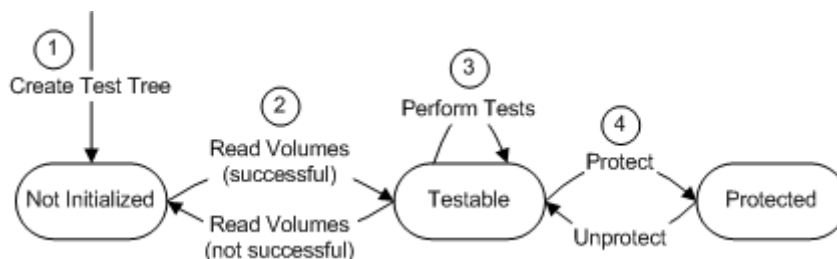
See also

Test Tree States

2.4 Test Tree States

A test tree can have one of three states:

- Not initialized
- Testable
- Protected
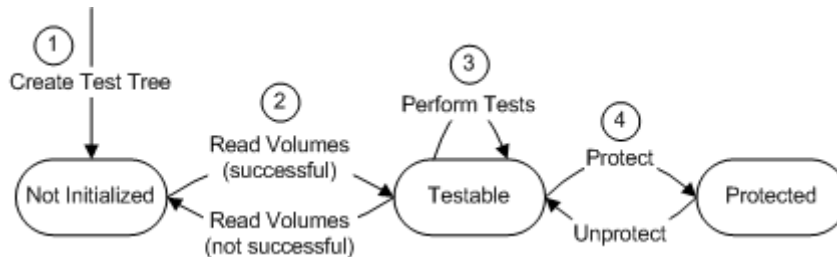
Not Initialized

> After the test tree directory is created it will be in the state 'Not Initialized'. In this state the volumes have to be read to change the state to 'Testable'. If the read volume step fails, the test tree remains in the state 'Not initialized'.

> In this state instead of the Test Tree Display an additional button Read Volumes is visible in the application main window that will work like the menu item Read Volumes in the Run menu.

Testable

> After the volumes were read successfully the test tree will be in the state 'Testable'. In this state tests can be performed by selecting the menu item Start Tests from the Run menu. If the user wants to reread the volumes this can be done by selecting menu item Read Volumes from the Run menu.

Protected

> A test tree that is protected cannot be modified or deleted. The state can be toggled between 'Protected' and 'Testable' by selecting the menu item Protection from the File menu.

See also

Conformity Test Steps
Protect / Unprotect Test Tree
Read Volume Step

3 Usage

3.1 Application Main Window

The application main window is opened when the Conformity Test Software is started. It contains the main menu.

The main window can look very different:

No test tree is open

> There is no current test tree available. The main window is empty. Only a few menu items are available.

Current test tree 'Not Initialized'

> If the current test tree is 'Not Initialized' the volumes must be read before testing is started. Instead of the test tree display a button Read Volumes is visible.

Current Test Tree "Initialized"

> The test tree is displayed

Tests are running

> During execution of tests the main window is partially hidden by a dialog box showing the test progress.

3.2 Test Tree Display

The test tree display in the main application window shows the hierarchical structure of the current test tree.
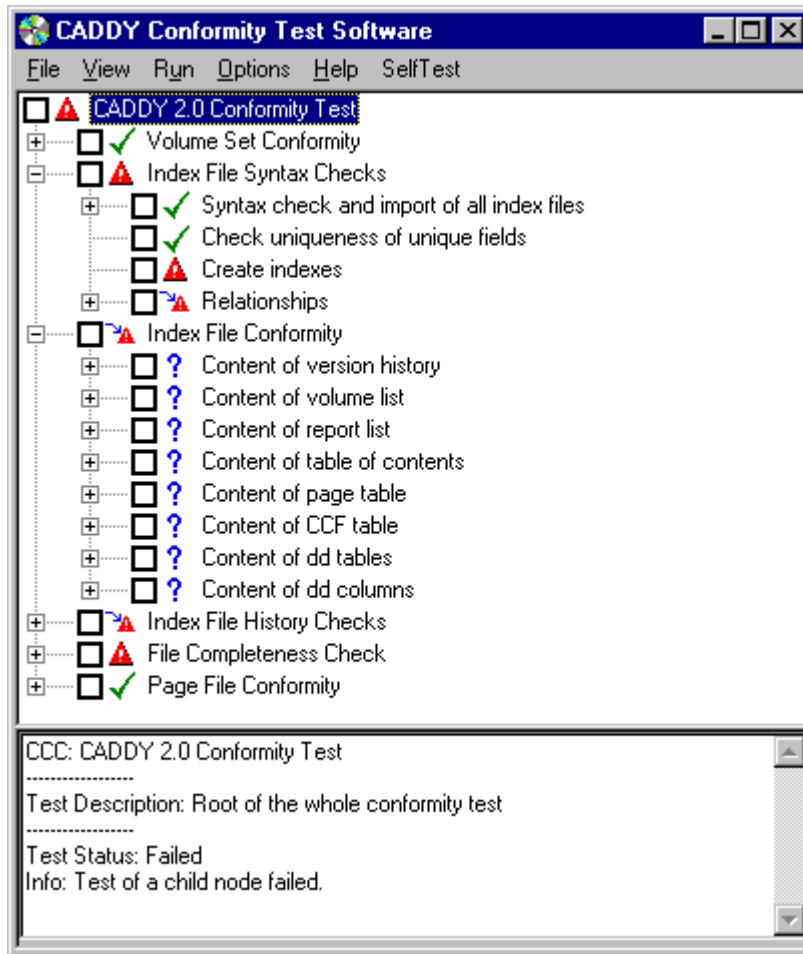
The information box on the bottom shows the test description of the current test and the result details of the last test. the plus symbol indicates that there are hidden subordinate tests.

The minus symbol indicates that all subordinate tests are visible. The user can toggle between showing and hiding subordinate tests by mouse clicking on the plus/minus symbols.

The following menu items from the View menu can also be used to change the visibility of subordinated items in the test tree:

Expand Branch	This option opens the selected test branch in the current test tree. The branch is opened to all "leaf" nodes of the selected test, i.e. to the deepest level of all of its sub-tests.
Expand Next Level	This option opens the next level of the selected test in the current test tree. The test is only opened to the next level of sub-tests of the selected test. Accelerator: Click plus symbol of the chosen test.
Hide Branch	This option closes (hides) the next level of the selected test in the current test tree. Sub-tests of the selected tests are removed from the display of the test tree. Accelerator: Click minus symbol of the chosen test.

The test result icon is shown:

✓   A check mark is shown when test was successfully done.

⚠   A warning sign is shown when a basic test failed or when one of the sub tests failed.

⚠   A question mark is shown then the test was not performed because a precondition failed.

?   A question mark is shown then the test was not performed
        (e.g. a precondition of a parent test failed or test was not selected for execution).

The user can select tests to execute by clicking with the mouse within the squares in front of the test items. A selected item can be deselected by clicking on the check boxes.

☐   Item is not selected

☑   Item is selected

When selecting tests, it must be remembered that tests are only executed if the execution of the respective precondition tests was successful. Therefore, the user must ensure that any precondition tests are also selected prior to beginning of test execution. The preconditions of each test are stored in the test tree.

If the complete CADDY conformity test is to be executed, it is sufficient for the user to select the root node of the current test tree.

Additional Notes

▪ If reading of the volumes failed (e.g. it was canceled by the user) a button Read Volumes is shown instead of the test tree.

3.3 Main Menu

The following menus are available:
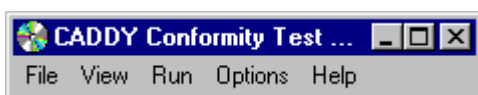
    Menu File

    Menu View

    Menu Run

    Menu Options

    Menu Help

Menus and menu items, which are not applicable, are grayed out.

3.3.1 Menu File

The following menu items can be found within the File menu:

New	Create a new test tree.
Open	Open an existing test tree.
Close	Close the current test tree.
Delete	Delete the current test tree.
Protection	Protect / Unprotect the current test tree. If a checkmark is shown at this item, the test tree is protected and selecting this menu item will cause to unprotect the test tree.
Properties	Show / Edit current test tree properties.
Export	Export the result report to file.
Print	Print the result report.
Print Setup	Open the standard print setup dialog box.
Exit	Close the application.

See also

Main Menu

3.3.2 Menu View

The following menu items can be found within the View menu:

Expand Branch	All subordinated items of the currently selected test are shown.
Show Next Level	All subordinated items on next level are shown.
Hide Branch	All sub items of the currently selected test are hid.

See also

Main Menu
Test Tree Display

3.3.3 Menu Run

The following menu items can be found within the Run menu:

Start All Tests	Select root node and start executing all tests.
Start Selected Tests	Start executing the selected tests.
Clear Test Results	Clear all results of previous tests.
Read Volumes	Read volumes from original media.

See also

Main Menu
Conformity Test Steps

3.3.4   Menu Options

The Options menu contains no menu items and opens the dialog box Options when selected:

See also

> Main Menu
> Dialog Box Options

3.3.5   Menu Help

The following menu items can be found within the Help menu:

Contents	Opens the On-line Help Content Page.
Search For Help On	
	Opens the Microsoft Help Search dialog box and allows the user to select a help topic.
CADDY Format Specifications	
	Opens the PDF-Viewer (if installed) and displays the format specification 1.1 and 2.0.
About CADDY Conformity Test	
	Displays the copyright and software version of the CADDY Conformity Test Software.

See also

> Main Menu

3.4 Processes and Dialog Boxes

The following processes are implemented within the Conformity Test Application:

Starting Conformity Test Software

Create New Test Tree

Open Existing Test Tree

Close Test Tree

View / Edit Test Tree Properties

Read Volumes Step

Performing Tests Step

Protect / Unprotect Test Tree

Printing / Exporting Result Report

Delete Test Tree

Quitting Conformity Test Software

Dialog Boxes

The following dialog boxes will appear within the application:

New Test Tree
Open Test Tree
Test Tree Properties
Reading Volumes
Insert Volume
Test Progress
Options
Export Result Report
Print Result Report
Print Setup
About

3.4.2 Starting Conformity Test Software

Start the CADDY Conformity Test application using the standard conventions appropriate for your version of Windows.

To open Conformity Test application:

▪ Click Start > Programs > CADDY > Conformity Test

The application main window is opened in the middle of the screen.

3.4.3 Create New Test Tree

This process allows to create a new test tree. The dialog box New Test Tree is opened by selecting the menu item New from menu File.

The user must enter the volume set ID, the dossier version number and the format of the dossier (CADDY 1.1 or CADDY 2.0). The test tree name is created from the input fields Volume Set ID and Dossier Version after pressing the OK button.

Default values are provided for the tester's name and organization. These default values are retrieved from the registry. The user may edit the values.

Upon confirmation by the user, a new test tree is created. First, the test tree directory in the working directory is created. If the test tree directory was already existing, a new test tree cannot be created and a warning message is displayed.

If another test tree was already open, it is closed automatically before the new test tree is opened and displayed in the application main window.
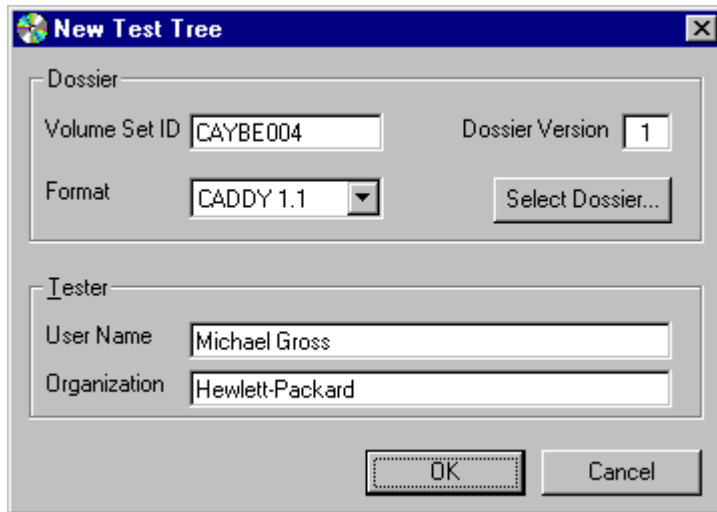
Buttons

OK	Create a new test tree and open dialog box Insert Volume.
Cancel	Close dialog box without creating a new test tree.
Select Dossier	Open dialog box Select Dossier Label File to read label file of index volume and set the required dossier input values.

Fields

Volume Set ID	CADDY volume set ID. (input mandatory)
Dossier Version	CADDY dossier version. (input mandatory)
Format	CADDY format (valid values: CADDY 1.1 and CADDY 2.0) (input mandatory)
User Name	Name of the person that is performing the test. (optional input)
Organization	Organization of the person that is performing the test. (optional input)

3.4.4   Open Existing Test Tree

This process allows choosing an existing test tree to be opened. The dialog box Open Test Tree is opened by selecting the menu item Open from menu File.

The user is allowed to open one of the existing test trees. All existing test tree names are shown in alphabetical order. The user can choose one of them

If another test tree is already open, it is first closed. Then the chosen test tree is opened and the hierarchical structure is shown in the test tree display (if test tree state is 'Testable' or 'Protected').
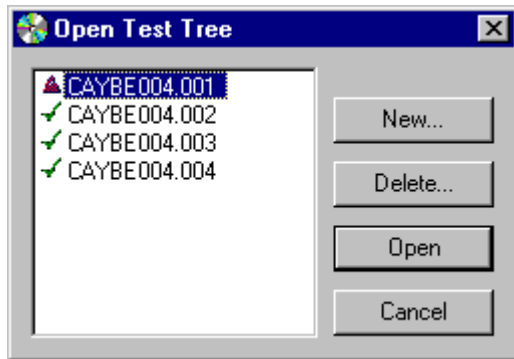
Buttons

New	Open the dialog box New Test Tree.
Delete	Delete selected test tree.
Open	Open selected test tree.
Cancel	Close dialog box without opening a test tree.

Double clicking with the mouse on a test tree item will open this test tree. (Same as highlighting an item and pressing OK button)

3.4.5   Close Test Tree

The current test tree can be closed. In this case no test tree remains open and the application main window will be empty. Only a few menu items are available to open an existing test tree or to create a new one.

3.4.6   View / Edit Test Tree Properties

This dialog box is used for viewing and changing test tree properties. Selecting the menu item Properties from the File menu opens it.

If the current test tree is protected this dialog box will not allow to change settings. Instead of the OK and Cancel button a Close button is displayed.

Buttons

OK	Save changes and close dialog box.
Cancel / Close	Close dialog box without saving changes.

Fields

User Name	Name of the person that has performed the test.
Organization	Organization of the person that has performed the test.
Test Begin	Date and time of first test that was executed.
Test End	Date and time of last test that was executed.
Volume Set ID	CADDY volume set ID.
Dossier Version	CADDY dossier version.
Format	CADDY format (either CADDY 2.0 or CADDY 1.1).

3.4.7   Protect / Unprotect Test Tree

The current test tree can be protected to avoid accidental changes. The menu item Protection in menu File will toggle between the test tree states 'Protected' and 'Testable'. If the current test tree is protected, a checkmark is shown at the menu item.

3.4.8   Read Volumes Step

This process is started by selecting the menu item Read Volumes from the Run menu or by pressing the button Read Volumes in the application main window.

The dialog box Reading Volumes is opened that records all actions. In addition the dialog box Insert Volume is opened requesting to insert the index volume of the dossier version to test. Follow the instructions within the dialog boxes and the message boxes that appear if the label file on the inserted volume cannot be read.

During the read volumes step all index files and label files are copied from the volume to the <u>test tree</u> <u>directory</u>. The content of the directories FILES and PAGES is not copied, but recorded within the <u>test</u> <u>tree database</u> for later analysis.

See also

Conformity Test Steps

3.4.8.2 Reading Volumes

This dialog box logs all system actions and results that are done during the <u>read volume step</u>. All lines shown in the list box will be written into a <u>log file</u> during operation.

```
Reading Volumes ...

 Insert current index volume ... OK
  Create local volume directory ... OK
  Analyze volume root directory ... OK
  Analyze directory INDEX ... OK
  Analyze directory PAGES ... 53 files OK
 Insert volume number 3 ... OK
  Create local volume directory ... OK
  Analyze volume root directory ... OK
  Analyze directory INDEX ... OK
  Analyze directory PAGES ... OK
 Check previous index volume existence ... OK
 Check number of volumes read ... OK
 Save volume list ... OK

                    OK
```

Buttons

Close	Close dialog box.
Start Tests	Close dialog box and start all tests. This button is greyed out if an error occurred.

3.4.8.3 Dialog Box Insert Volume

This dialog box asks the user to insert a CADDY volume and to specify the path to the root directory of this volume. It is shown whenever the application needs to access a volume and this volume is not already available.

There are two situations when this can happen:
- The volume should be read during the <u>read volume step</u>
- The page file conformity (tag test) should be checked.
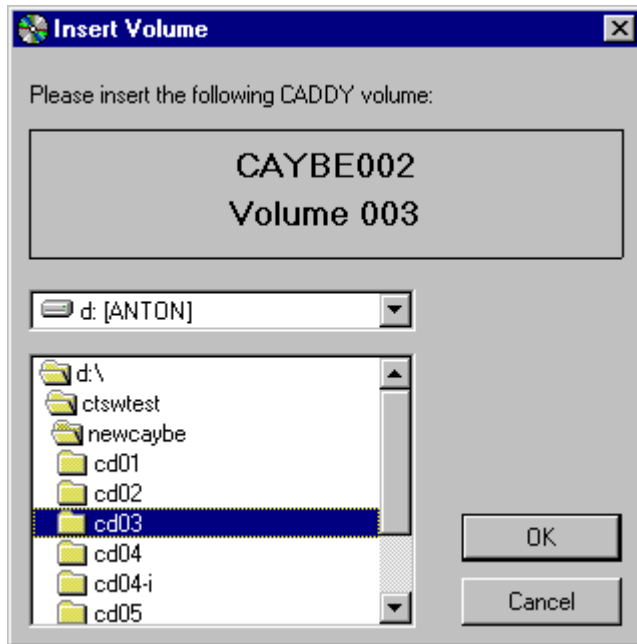
Buttons

> ***OK***   Confirm insertion of volume.
>
> ***Cancel***   Close dialog box and cancel operation.

When the Insert Volume dialog box is displayed, the user is asked to choose the directory where the requested volume data is stored. The drive letter can be selected from the drive list. All directories of the current drive are displayed in the directory list. Subdirectories at the next level can be displayed by double clicking on a directory item in the list.

  During read volume step:

After the OK button was pressed the dialog box might immediately be shown again to request the next volume. If the dialog box is canceled it is necessary to reread all volumes of the current version, because the test tree stays in state 'Not-Initialized'.

3.4.9   Performing Tests Step

This process is started by selecting the menu item Start Tests from the Run menu. The selected tests defined by the test tree will be performed. The application main window is closed while the dialog box Test Progress is opened. All test results obtained during this phase will be stored within the test tree database.

3.4.9.1   Dialog Box Test Progress

The dialog box Test Progress is displayed during execution of the test tree. It can appear in different modes:

> Execution Mode   The test process is currently running. The user can choose button
>   Stop to enter pause request mode.
>
> Pause Request Mode   The user has pressed the button Stop. The current test is finished
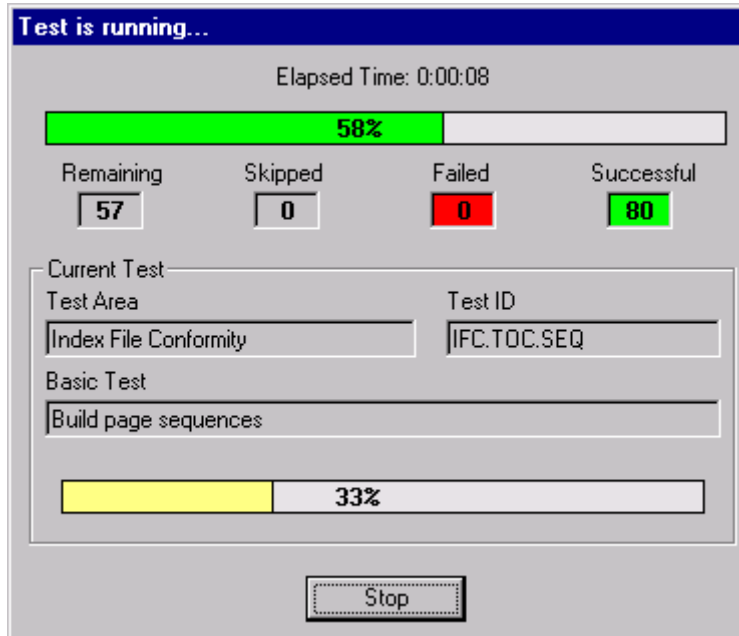>   before pause mode is entered automatically.

Pause Mode	The test process is suspended. The user can choose button Resume to resume the test process or button Cancel to abort testing.
Testing Finished	When testing is finished the user can press button OK to close the dialog box.

The layout and the appearance of the buttons differ from variant to variant.

Progress Bars

The **main progress bar** that is displayed at the top of the dialog box shows the percentage of tests that are executed.

The **basic test progress bar** at the bottom of the dialog box shows the percentage of basic operations within one basic test that are done. This progress bar is only shown if more than a certain number of basic operations are to be done within one basic test. (Example: Reading of the page table contains the basic operation read character. The basic test progress bar shows the percentage of characters read from the index file dc_pag; this is not done for all index files, but only for larger ones.)

Fields

Elapsed Time	Time that was elapsed during execution of tests.
Remaining	Number of tests that have not been executed yet.
Skipped	Number of tests that were skipped because their precondition was not fulfilled.
Failed	Number of tests whose execution failed.
Successful	Number of successful tests.
Test Area	Test area where the current test belongs to.
Test ID	Test ID of the current basic test.
Basic Test	Title of the current basic test.

3.4.9.2 Test Progress: Execution Mode

This dialog box is shown during execution of the tests.

Buttons

Stop	In execution mode this button allows switching to pause request mode. Pause mode is not entered immediately but after execution of the current test.

3.4.9.3 Test Progress: Pause Request Mode

Instead of the Stop button in execution mode a text "Testing will be stopped after executing the current test" is displayed. The user has to wait until the dialog box changes to pause mode after the current test is finished.

3.4.9.4 Test Progress: Pause Mode

This variant is displayed when the user stopped testing.

Buttons

Resume	Change to execution mode and resume the test process with the next test.
Cancel	Close the dialog box without initiating any actions.

3.4.9.5 Test Progress: Testing Finished

This variant is displayed at the end of the test process. The caption of the dialog box is changed to "Test is finished". The frame Current Test is not visible. Instead of the Stop button an OK button is displayed. The user has to confirm the dialog box before it is closed.

Buttons

OK	Close the dialog box.

3.4.10 Printing / Exporting Result Report

The Conformity Test Software allows creating a detailed report of the test tree content and the test results. This report has the same hierarchical structure as the test tree. It can only be generated complete, it is not possible to generate reports for parts of the tree.

The result report can be exported to a file or printed:

- Export Result Report
- Print Result Report

Example Result Report:

```
CADDY Conformity Test
---------------------

 Volume Set ID: CAYBE004  Version: 5    Format: CADDY 2.0
```

```
   Test Begin: 10.07.2002 19:34      Test End: 10.07.2002 19:34

   Test Software: Version 2.0 Rev. 20 / October 2002

   Tester
   ------
     User Name:    Michael Gross
     Organization: Hewlett-Packard

   Test Results
   ------------

   CCC CADDY 2.0 Conformity Test                                 Failed
             Info: Test of a child node failed.
   ------------------------------------------------------------------------------------

     VSC Volume Set Conformity                                   Failed
             Info: Test of a child node failed.
   ------------------------------------------------------------------------------------
       LAB Syntax test and content of label files               Failed
             Info: Test of a child node failed.
         RDX Read all label files                               Failed
             Line 1 in label file on volume 7 is empty.
         VOL Check volume info in label file                    PreCond
             Precondition CCC.VSC.LAB.RDX failed.
         CON Check info lines in label file                     PreCond
             Precondition CCC.VSC.LAB.RDX failed.
       DIR Conformity of directory contents                     OK
         ROO Conformity of root directories                     OK
         PAG Conformity of PAGES directories                    OK
         CCF Conformity of CCF directories                      OK
         IDX Conformity of INDEX directory                      OK
       MIF Existence of mandatory index files                   OK

     IFS Index File Syntax Checks                               Failed
             Info: Test of a child node failed.
   ------------------------------------------------------------------------------------
       FSC Syntax check and import of all index files           OK
         VER Syntax check of version history                    OK
   .
   .
   .
```
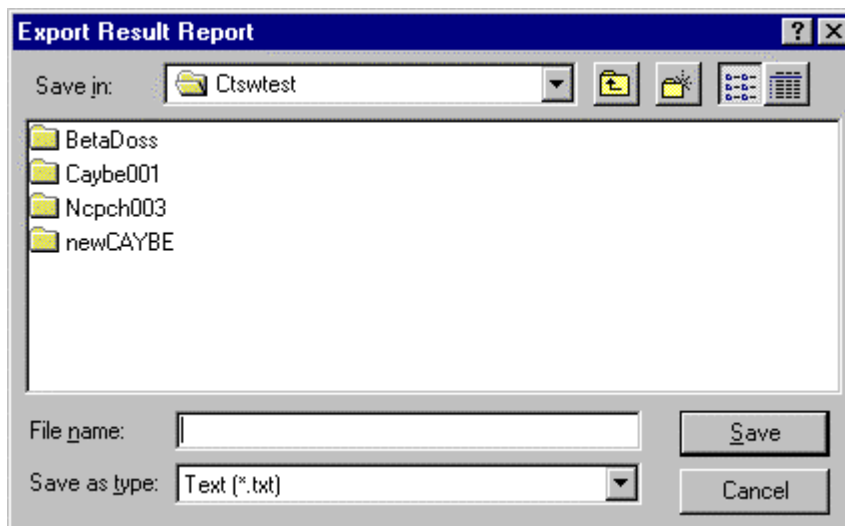
3.4.10.2 Dialog Box Export Result Report

This dialog box allows exporting a result report to a file. The user can select a directory and provide or select a filename where result report will be written as text file.
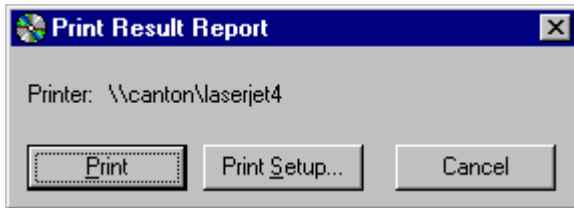
This dialog box is the Microsoft common dialog "Save as" that is operating system specific and may look different on your computer system. If you need help, refer to the Microsoft documentation.

3.4.10.3 Dialog Box Print Result Report

This dialog box allows printing of a result report.

Buttons

|	
Print	Close dialog box and start printing.
Print Setup	Open the standard print setup dialog box.
Cancel	Close dialog box without printing a report.

3.4.10.4 Dialog Box Print Setup

This dialog box allows to change the print setup. It is opened by selecting the menu item Print Setup from the menu File or by pressing the Print Setup button in the dialog box Print Result Report.
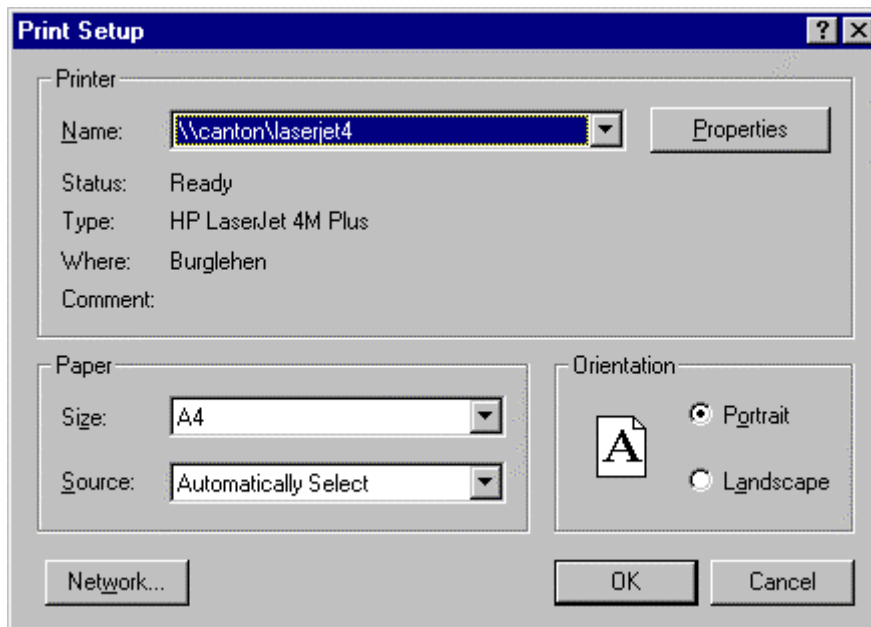

or
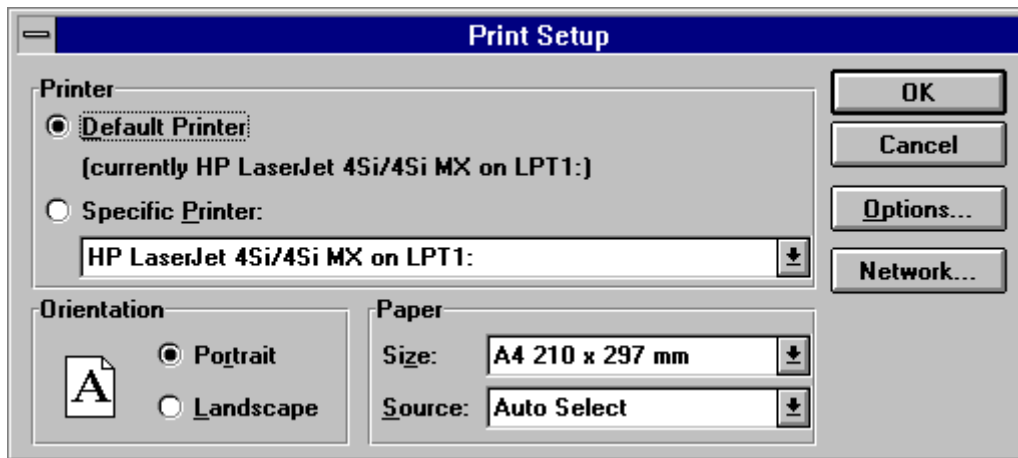
This dialog box is the Microsoft common dialog "Print Setup", that is operating system specific and may look different on your computer system. If you need help, refer to the Microsoft documentation.

3.4.11 Delete Test Tree

The current test tree can be deleted by selecting the menu item Delete from the File menu. Deletion is only possible if the test tree is not protected. Before a test tree is deleted the user is asked for confirmation. Deleting a test tree will simply delete the test tree directory with all files and sub directories contained in it.
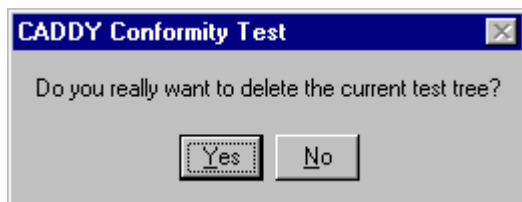
Buttons

Yes	The test tree will be closed and the test tree directory will be deleted.
No	Test tree remains open and will not be deleted.

See also

Test Tree Protection

Dialog Box Options

This dialog box allows to change the program settings. These settings will be stored in the windows registry.

There are four tabs to choose from.
User Tab

Buttons

OK	Store all settings and close dialog box.
Cancel	Close dialog box.
Apply	Store all settings without closing the dialog box.

Dialog Box Options: Tab User

The dialog box Options allows to change the program settings. These settings will be stored in the windows registry in section Tester.

The tab User allows to preset values for user name and organization.
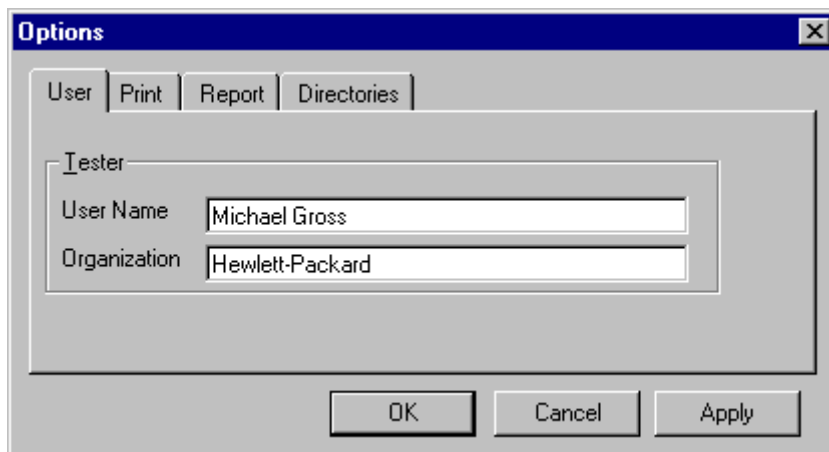
Buttons

OK	Store all settings and close dialog box.
Cancel	Close dialog box.
Apply	Store all settings without closing the dialog box.

See also

Dialog Box Options: Tab Print

The dialog box Options allows to change the program settings. These settings will be stored in the windows registry in section Print.

The tab Print allows to define settings for printing of reports.
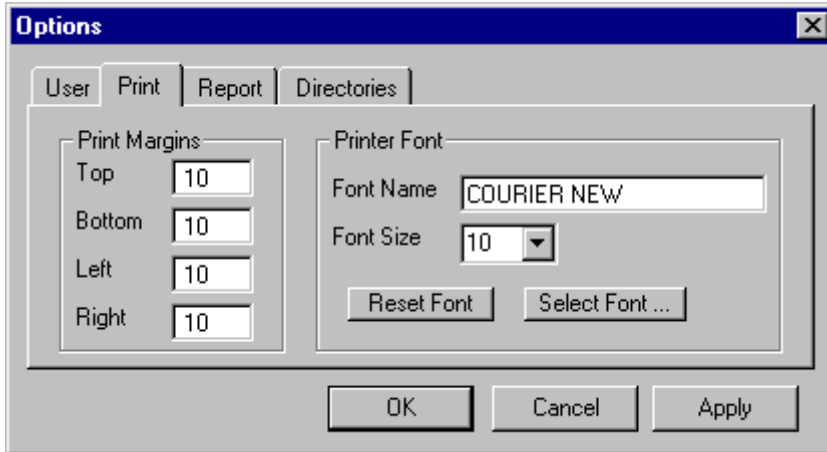
Buttons

OK	Store all settings and close dialog box.
Cancel	Close dialog box.
Apply	Store all settings without closing the dialog box.

See also

> User Tab
> Report Tab
> Directories Tab

Dialog Box Options: Tab Report

The dialog box Options allows to change the program settings. These settings will be stored in the windows registry in section Report.

The tab Report allows to define the width of the reports.

Buttons

OK	Store all settings and close dialog box.
Cancel	Close dialog box.
Apply	Store all settings without closing the dialog box.

See also

> User Tab
> Print Tab
> Directories Tab

Dialog Box Options: Tab Directories

The dialog box Options allows to change the program settings. These settings will be stored in the windows registry in section Directories.

The tab Directories allows to predefine paths for working directory and volume directory.
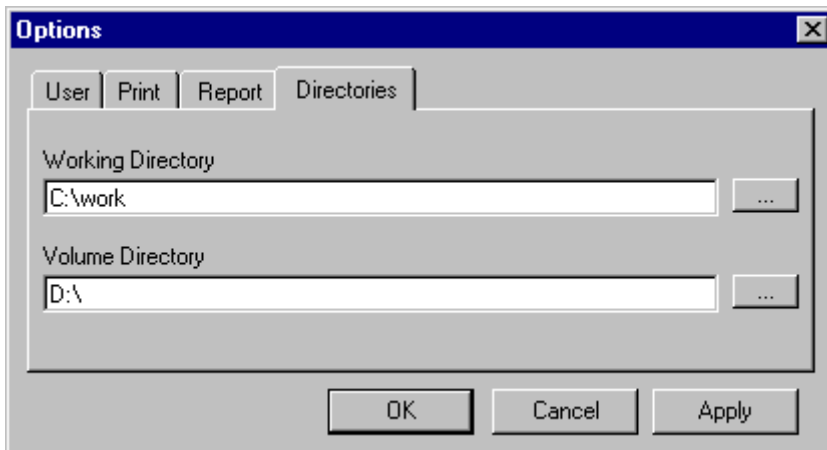
Buttons

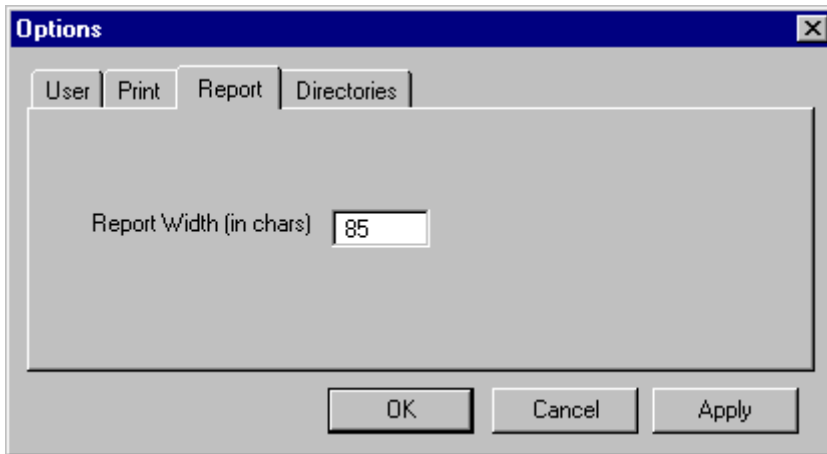|	
OK	Store all settings and close dialog box.
Cancel	Close dialog box.
Apply	Store all settings without closing the dialog box.

See also

    User Tab
    Print Tab
    Report Tab

3.4.12 Dialog Box About

This dialog box displays the software version and copyright notice. The hyperlink to the CADDY homepage will open the web browser.

Buttons

OK	Close dialog box.

3.4.13 Quitting Conformity Test Software

Use menu item Exit from the File menu, or double-click on the upper left-hand corner System Menu Box to close the Conformity Test application.

When the application is closed no additional confirmation from the user is requested. Saving data is not necessary because all test results are automatically saved after each basic test is executed.

4 Other Topics

4.1 Messages And Questions

Messages

The Conformity Test Software may display different types of messages:

info: Notifies the user about important events.

warning: Notifies the user about important events that might cause unexpected system behavior later.

error: Notifies the user about error events in the application. The application will be able to recover from this error. The user can resume with his work.

system error: Notifies the user about an unrecoverable error. The application will terminate. During execution of this application you may encounter one of this system error messages. Most are recoverable by the user, with little effort.

Questions

In addition to these message types, there is a confirmation message type which requests a confirmation from the user before an irrevocable action is performed:

question: Notifies the user that an action that cannot be revoked will be performed after confirming this message.

4.2 Configuration Settings in Windows Registry

To store the program settings the MS-Windows registry is used. The user should not modify the registry directly. Instead, the settings can be changed using the options dialog of the Conformity Test Software.

The settings are stored in HKEY_CURRENT_USER\Software\VB and VBA Program Settings\CADDY ConfTest

The following sections are available:

- Section [Directories]
- Section [Tester]
- Section [Report]
- Section [Print]

None of the sections is changed by the application itself.

Section [Directories]

All configured directories are stored in this section. The directory names within this section can be changed to reflect the situation of the current installation.

WorkingDir = *p* no default; a system error occurs when invalid; when empty, the value of ProgDir is used
The working directory is used to store the template database and local data files.

VolumeDir = *p* no default; a system error occurs when invalid
This directory is used for the access to CADDY volumes.

Example:

WorkingDir=C:\CTSW\DATA

VolumeDir=D:

Section [Tester]

The values stored in this section will be used as defaults when a new test tree is created. The user should set these values after installation.

UserName = *us* *us*: user name (after installation this setting is empty)

Organization = *os* *os*: organization name (after installation this setting is empty)

Example:

UserName=Michael Gross

Organization=Hewlett-Packard

Section [Report]

The user has to be careful when theses settings are changed. Changes will influence exported and printed result reports

ReportWidth = rw rw: maximum number of characters per report line
(Default: rw = 85)

Section [Print]

The user has to be careful when theses settings are changed. Changes will influence printed result reports

MarginTop= *mt*   *mt*: vertical coordinate for the top edge (mm)
(mt = 10)

MarginBottom= *mb*   *mb*: vertical coordinate for the bottom edge (mm) (from paper bottom edge)
(mb = 10)

MarginLeft=*ml*   *ml*: horizontal coordinate for the left edge (mm)
(Default: ml = 10)

MarginRight=*mr*   *mr*: horizontal coordinate for the right edge (mm) (from right paper edge)
(Default: mr = 10)

FontSize=*fs*   *fs*: font size (points)
(Default: fs = 10)

FontName =*fn*   *fn*: name of printer font
(Default: fn = COURIER NEW)

4.3 Structure Of Working Directory

For each dossier version, a subdirectory named like the test tree name is created in the working directory. This subdirectory is called the test tree directory. The template database is copied to the test tree directory when a test tree is created. Each test tree directory contains subdirectories, which are named according to the volume numbers of the respective dossier version. The corresponding volume data (label file, index files) are copied to these volume subdirectories during the read volumes step.

Example Structure of Working Directory

Conformity Test SW

Example Data Directory Tree
(Only part of the tree is shown)

```
DATA
  │
  ├── conftst.mdb
  │
  ├── BAYDE001.002
  │     │
  │     ├── conftst.mdb
  │     │
  │     ├── 004
  │     │     │
  │     │     └── label.txt
  │     │
  │     ├── 005
  │     │     │
  │     │     └── label.txt
  │     │
  │     └── Index
  │           │
  │           ├── dd_tab
  │           └── dd_col
  │
  └── DOEGB003.001
        │
        └── conftst.mdb
```
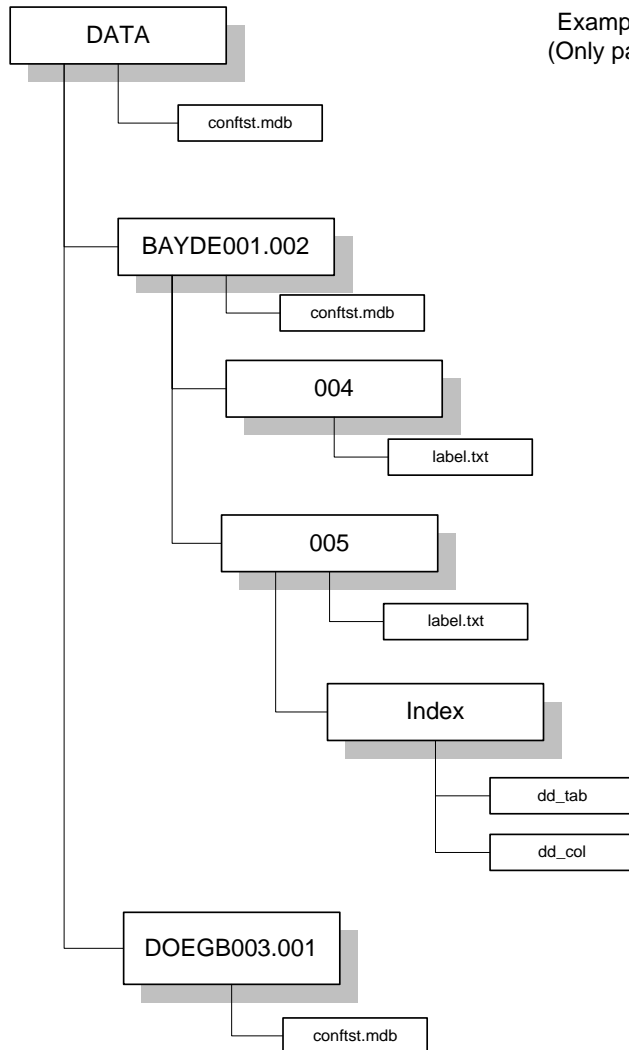
4.4 Content Of Application Directory

The Setup program will create during installation an application directory containing the following files:

Program Files

CONFTST.EXE	Executable file
CONFTST.HLP	Online Help file
CONFTST.CNT	Online Help Contents file
CONFTST.MDB	Template Database

Information Text Files

README.TXT	Installation notes and content of distribution package
LICENSE.TXT	Freeware License Agreement

Documentation Files

FS_SE.PDF	CADDY Format Specifications 1.1 and 2.0
UGUIDE.PDF	Conformity Test Software User's Guide

4.5 Log Files

As they might flood the test tree and cover a lot of pages (more than 1000 lines) in the result report the result details of the some actions are recorded in log files:

- **Read Volumes Log (log file for tracking all actions during the read volume step)**
  Name of log file: Test Tree Directory + "\reading.log"
  e.g.: C:\CADDY\CONFTST\DATA\CAYBE002.002\reading.log

- **Syntax Check Log (log file for syntax check and import of index files)**
  Name of log file: Test Tree Directory + "\" + name of index file + ".log"
  e.g.: C:\CADDY\CONFTST\DATA\CAYBE002.002\dc_pag.log

- **TIFF Tag Test LOG (log file for details on TIFF tag test of page files)**
  Name of log file: Test Tree Directory + "\pagtst" + number of volume + ".log"
  e.g.: C:\CADDY\CONFTST\DATA\CAYBE002.002\002\pagtst001.log

4.6 System Requirements

The minimum requirements to run the CADDY Conformity Test Software are:

- Computer / Processor: an Intel compatible PC (Pentium processor recommended)
- Main Memory: the minimum RAM recommended by the manufacturer of your operating system
- Hard Disk: at least 10 MB free disk space (data and program files) on local hard disk or network drive
- Display: VGA or higher resolution graphics adapter and matching monitor
  Note: screen resolution 480 x 640, screen size 14"
- Peripherals: CD-ROM drive and printer
- Mouse or other pointing device.
- Microsoft 32-bit Windows operating system:
  Windows 95, Windows 98, Windows Me, Windows NT 4.0 or Windows 2000
  with the latest Microsoft patches installed
- Microsoft MDAC-Patch (including MS JET-Database Engine) installed (available on the Microsoft homepage)

To view the online documentation you need:

- Adobe Acrobat Reader version 4.0 or higher installed on your PC

4.7 Installation

Important: Before installation is started all other running applications should be closed.

Start the installation process using the standard conventions appropriate for your version of Windows.

- ▪ Example: Choose Run from the Start menu, type "a:setup", and press the Enter key.

    (Instead of "a:" use the appropriate directory where the installation package file of the distribution package can be found.)

The Setup program will issue a number of prompts. Unless you have a reason to override the defaults it is recommended that you accept the installation default settings (just press OK, Yes, or Next, as appropriate).

By default, the application is installed in a sub-directory/folder (application directory) of the windows Program Files directory named "CADDY Conformity Test 2.0". You may change this default path during the installation process. In addition some support files will be installed within the Windows System directory.

If you have problems with the installation, check to see if your device drivers and DLL files are current. Updating drivers and DLL files to the latest versions will fix most problems.

Please refer to readme.txt for further installation notes.

Conformity Test Software requires MDAC

Because of database changes made in order to open possibilities of using other database types (such as SQL or Oracle) in future versions and to make Conformity Test Software Windows 2000 compatible, Conformity Test Software now requires that MDAC 2.5 or higher be installed (MDAC is Microsoft Data Access Controls). The Conformity Test Software installation will not run if MDAC is not installed. You can download the MDAC setup from the Microsoft web site at:

http://www.microsoft.com/data/download.htm

MDAC 2.6 does not contain all the components necessary to run Conformity Test Software If you wish to use MDAC 2.6 you must install MDAC 2.5 first and then upgrade, or you must also install the Jet Database components. You can download Jet from the Microsoft website.

To install correctly on a Windows 95 computer, MDAC requires that DCOM95 be installed. MDAC installs components that rely on DLLs installed by DCOM95 in order to register correctly. Note that DCOM95 is not required on a Windows NT 4.0. In some cases, DCOM may not be installed on a Windows 98 computer. If it has not been installed, then DCOM98 should be installed prior to the installation of MDAC. DCOM95 and DCOM98 are also available on the Microsoft website.

MDAC 2.5 and later require that Internet Explorer (version 4.01 or higher) is installed on the machine as well. We regret the necessity of requiring IE in order to run Conformity Test Software, but there was

little choice if we wanted to be able to become Windows 2000 compliant. You do not need to use IE as your default browser, but it needs to be installed in order to update certain system components to required versions. We apologize for any inconvenience. You can download IE 5 from:

http://www.microsoft.com/windows/ie/default.htm

See also

Removing Conformity Test Software
Content of Application Directory
Installed Support Files

4.7.2   Installed Support Files

The Setup program will place some support files to the Windows System directory.

Due to the nature of Visual Basic and the OLE architecture, the used OCX controls require that some support files are installed in your system directory. They might be shared with other applications.

The following table gives a brief description of the files that may have been installed on your hard disk during the Setup process.

Filename(s)   **Description**

Active-X Controls
  COMDLG32.OCX   Support OCX
  MSCOMCTL.OCX   Support OCX
  TABCTL32.DLL   Support OCX

Microsoft Jet Database Engine
  DAO360.DLL   Support DLL (Microsoft Jet DAO Library)

Microsoft OLE Support
  STDOLE2.TLB   Support file (OLE Automation Type Library)
  OLEAUT32   Support DLL (OLE DLL)
  OLEPRO32.DLL   Support DLL (OLE DLL)
  ASYNCFILT.DLL   Support DLL (OLE DLL)
  COMCAT.DLL   Support DLL (OLE DLL)

Microsoft Visual Basic Runtime Support
  MSVBVM60.DLL   Visual Basic Runtime DLL

Other Support Files
  CADDYImportExport.dll   CADDY Conformity Test Support DLL

See also

Installation
Removing The Conformity Test Software

4.8 Removing Conformity Test Software

To remove the Conformity Test Software you should open Add/Remove Programs in Control Panel of your windows operating system.

See also

Installation

5 Freeware License Agreement

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- This program and associated files may be posted on any BBS without charge or permission. CADDY Conformity Test Software may be included in a companion disk with any book or magazine, and included in any shareware library, as long as the program and associated documentation are not modified.

6 Technical Support

The CADDY World Wide Web homepage provides general information on CADDY. Included is the latest release of the Conformity Test Software as well as the latest patches and product information.

http://www.ecpa.be/caddy

7 References

[1]   Format Specification CADDY 1.1 Document Interchange Format For Pesticides Registration Applications, September 23, 1997

[2]   Addendum to CADDY 1.1 Format Specification, Draft, February 24, 1998

[3]   Format Specification CADDY 2.0 Document Interchange Format For Pesticides Registration Applications, June 19, 2002

Documents [1], [2] and [3] are part of the distribution package (file FS_SE.PDF) and can be found after installation in the application directory.

The following documents were used for the development and are not part of the distribution package:

[4]   CADDY Conformity Test Software Specification, September 30, 1997

[5]   Microsoft Windows Documentation

[6]   Microsoft Visual Basic 6.0 Documentation

[7]   CADDY Conformity Test Software Test Plan

[8]   CADDY Conformity Test Software Development Documentation

8 Glossary

Current Test Tree
Main Database
Precondition
Application Directory
Protected Test Tree
Result Report
Test Tree Name
Test Tree Directory
Test Tree Database
Working Directory

Current Test Tree

Tests are organized hierarchically. The test of one CADDY version is called a test tree. The *current test tree* is the opened test tree. Only one test tree is current at a time and its structure is displayed in the application window. If no test tree is current, only the menu is displayed and the application window is empty.

Template Database

The *template database* acts as a class when a Test Tree instance is created. The instances of the class are stored in files named testtree.mdb that can be found in the working directory. The file CONFTST.MDB is used read only during normal operation of the Conformity Test Software.

Precondition

A *precondition* is a test that must be done successfully before the current test can be done. Preconditions are defined within the test tree to ensure that e.g. a index file was read successfully before the data contained in it is analyzed.

Application Directory

The *application directory* of the Conformity Test Software is the directory where CONFTST.EXE was started from. It contains the program and documentation files and is created during installation.

Example: C:\Program Files\CADDY\CADDY Conformity Test 2.0

Protected Test Tree

A test tree that is *protected* cannot be changed any more. The test tree state is set to 'Protected'.

Result Report

A *result report* is a detailed report of the test tree content and the test results. This report has the same hierarchical structure as the test tree. It can be exported to a file or printed.

Test Tree Database

The *test tree database* contains the test tree table, the test options table, the data dictionary reference and all index tables of the current and the previous CADDY dossier version. The test tree database is stored within the test tree directory.

Test Tree Directory

The *test tree directories* will contain all results and data necessary to test a dossier version.

The name of this directory is build as follows:

[Test Tree Directory] ::= : Working Directory + "\" + Test Tree Name

Example: C:\CONFTST\DATA\CAYBE002.002

Test Tree Name

Test tree names are given to instances of Test Trees. The names are built by the ID of their corresponding volume set and the dossier version number.

[Test Tree Name] ::= [volume set ID] ''.'' [version number]

Example : CAYBE002.002

Working Directory

The *working directory* of the Conformity Test Software is defined within the windows registry. It contains the test tree directories.

Example: C:\CONFTST\DATA