



TrusCont

Trusted Content Delivery

DVD-R Protection Toolkit Version 1.3

TrusContTM

DVD-R Protection Toolkit

Version 1.3

User's Manual

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1. Introduction

Thank you for using TrusCont security solutions. TrusCont products are specifically designed for secure distribution and delivery of digital contents.

TrusCont DVD-R Protection Toolkit is an easy to use software for recording and protecting files using **TrusCont Enhanced DVD-R media**. Prior to starting the recording process, the software enables the user to select which files to protect. The selected files are linked to the unique elements of the specific Enhanced DVD-R disc being recorded. As a result the files selected for protection will be functional only when the original DVD-R on which they are recorded is present in a local DVD drive of the end user's computer.

TrusCont Enhanced DVD-R discs contain built in security enhancements such as copy protection and serialization. Each Enhanced DVD-R disc manufactured worldwide is unique. Both the software and the enhanced media can be used on any standard computer and DVD recorder.

1.1 Key Features

- 4.7GB of storage capacity
- Compatible with standard DVD recorders and players
- Supports protection of program files and PDF documents
- High volume productions using Rimage systems (Rimage Edition)

1.2 Terms and Definitions

- **TrusCont Enhanced DVD-R** – A DVD-R disc containing TrusCont proprietary information that makes the disc copy protectable. Enhanced DVD-R media are available worldwide – contact TrusCont support to find the nearest TrusCont representative to your location.
- **TrusCont DVD-R Protection Toolkit ("Toolkit")** – TrusCont software utility for recording and publishing content using TrusCont Enhanced DVD-R discs.
- **Project** – A Project defines the information concerning a specific title such as its name, source files and the files to be protected, which is required by the Toolkit in order to apply copy protection to the specific title and record it to Enhanced DVD-R discs.

2. Installing TrusCont DVD-R Protection Toolkit

2.1 System Requirements

Before starting the installation process, please make sure your system meets the following minimum system requirements:

- Pentium III or higher CPU
- 7Mb of free Hard Disk space
- 10Gb of free Hard Disk space for temporary files during the production process
- 512 MB of system memory (RAM)
- Internet connection
- Internet Explorer 6.0 or later
- Nero Burning Rom version 6.X or later, excluding version 6.6.1.4 (<http://www.nero.com>)
- Adobe Acrobat / Acrobat reader is required to view this user manual
- **Supported OS:** Windows 2000 (with Service Pack 4), Windows XP, Windows XP x64, Windows Vista, Vista x64

2.2 Starting the installation

TrusCont DVD-R Protection Toolkit installation package consists of a single installation file, which is available for download free of charge from TrusCont website (<http://www.truscont.com>). To start the installation process, save the installation file to your local Hard Disk and double click it. Follow the on-screen instruction to complete the installation.

2.3 Starting TrusCont DVD-R Protection Toolkit

To start the Toolkit you must be logged on using an account with local administrator privileges. The installation process will automatically create shortcuts to the Toolkit on your desktop and in the programs menu under Start -> Program Files -> TrusCont -> DVD-R Protection Toolkit. Click one of the shortcuts to start the program.

3. Using TrusCont DVD-R Protection Toolkit

3.1 Overview

The DVD-R Protection Toolkit assists you in protecting and publishing your valuable content on TrusCont Enhanced DVD-R media using just a few simple steps:

- **Creating a Project** – The first step is creating a "project", which defines your publication to the Toolkit – the files you wish to publish, which files to protect, etc.
- **Saving a Project for Future Use** – After creating a project you can save it for future productions. This allows you to start or resume production of the same project at a later stage without repeating the creation process.
- **Starting Duplication** – Start recording your new project (or a saved project) to TrusCont Enhanced DVD-R discs.
- **Creating & Recording an Image** – Creating an image is another method for saving a project for future production. Recording from an image provides better performance than recording from a saved project but once created it cannot be changed.

3.2 Creating a New Project

3.2.1 Preparing Your Content

To ensure proper creation of your project, please organize your content using the following guidelines:

- ☒ **Verify the functionality of your title** – The protection process doesn't change the functionality of your files in any way. Verify that your title works as planned before using the Toolkit.
- ☒ **Organize your files on your local computer** – Using files stored on removable drives is blocked in order to avoid potential interruptions of the project creation process due to potential connectivity failures.
- ☒ **Make sure your files are not being used** – Make sure your project files are not open in any other software and remain unchanged through the project creation process.
- ☒ **Do not use files that are already protected** – Files recorded on Enhanced DVD-R discs may already be protected. It is not possible to reapply the

copy protection on files that are already protected. Always use the source files located on your computer.

3.2.2 Starting a New Project

Open TrusCont DVD-R Protection Toolkit and follow these simple instructions:

- A. Wait for the welcome page to appear then click next.
- B. On the 'Select Task' page select 'Create a New Project' then click next.

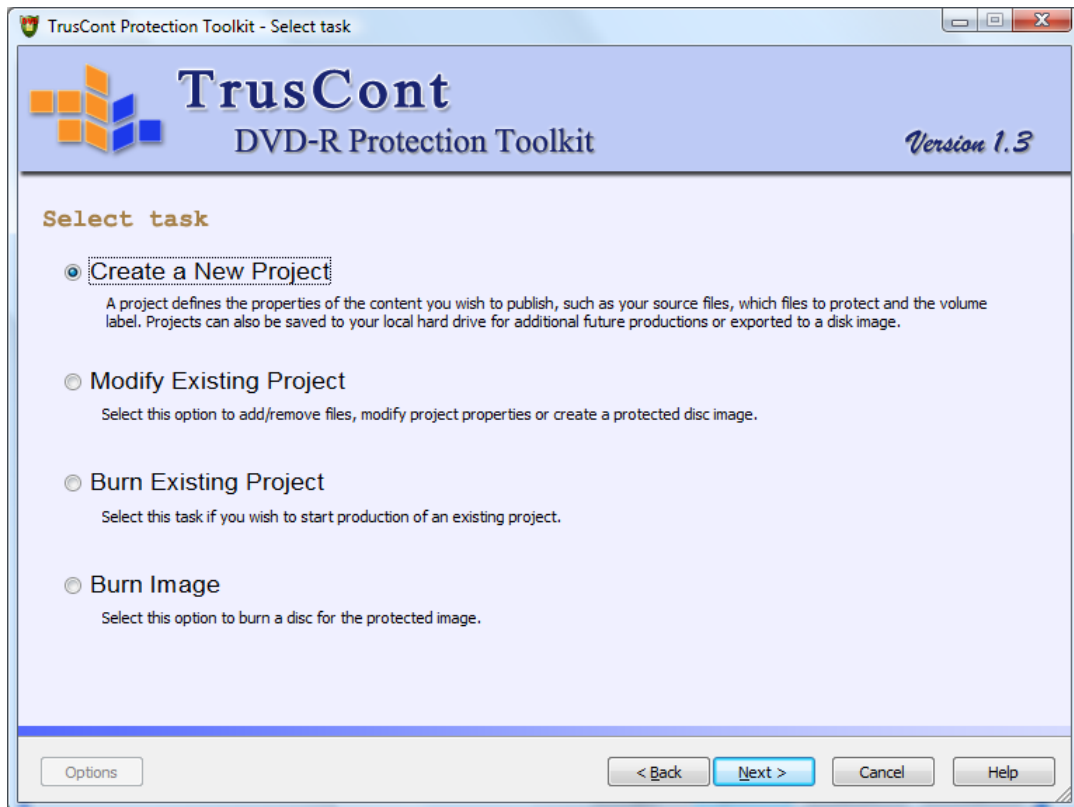


Figure 1: Select task Page

- C. The 'Edit Project' page will appear. Proceed to the next section, *Editing a Project*, to add files and folders to your project.

3.2.3 Editing a Project

The 'Edit Project' page has two main panels. The left panel is a tree view of all the files and folders on your project. These are the files and folders that will eventually be recorded to the Enhanced DVD-R discs. The right panel contains a table that lists only the files of your project corresponding to the supported file types. These are the files on your project that can be protected. The columns of

the table specify the copy protection options for each individual file that can be protected. Use the instructions in the following subsections to edit your project then click next to proceed.

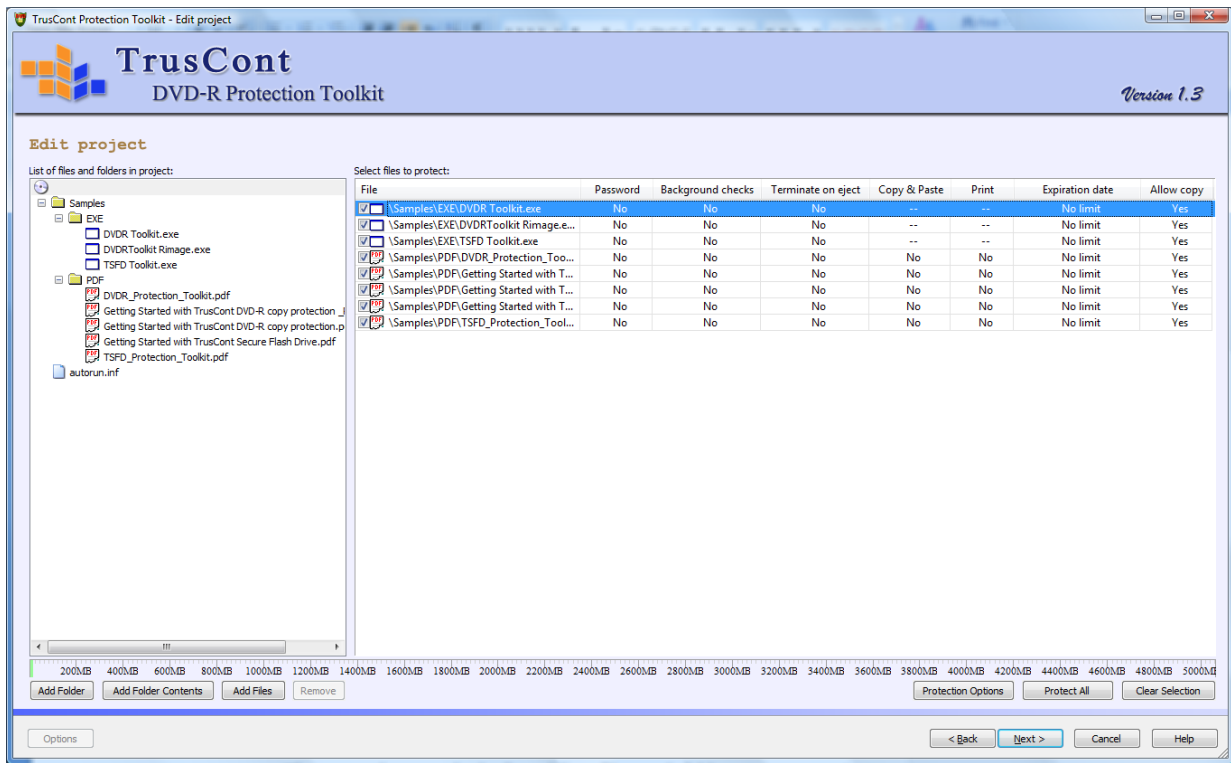


Figure 2: Edit Project Page

3.2.3.1 Adding Files and Folders

There are three methods for adding files and folders to your project – Adding a folder, adding a folder contents and adding files. Each can be achieved by clicking the corresponding button at the bottom of the page (see figure 2).

Add Folder – Use this button to add an entire folder, including all its files and sub-folders to your project. The 'Add Folder' dialog box will appear. The folder will be added under the folder that is selected on the left panel. If you wish to add the folder to the root of your project, select the disc icon. Otherwise select the sub-folder under which you wish to add another folder.

Add Folder Contents – Use this button to add an entire folder contents. The contents of the folder that you select will be added under the folder that is selected on the left panel, but the folder itself will not be created.

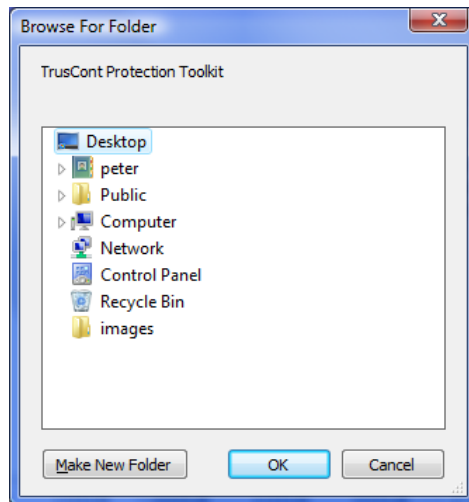


Figure 3: Add Folder Dialog

Add Files – Use this button to add files to a folder within your project. The 'Add Files' dialog will appear. Select the files you wish to add and click 'Open'. The files you select will be added under the folder which is selected on the left panel.

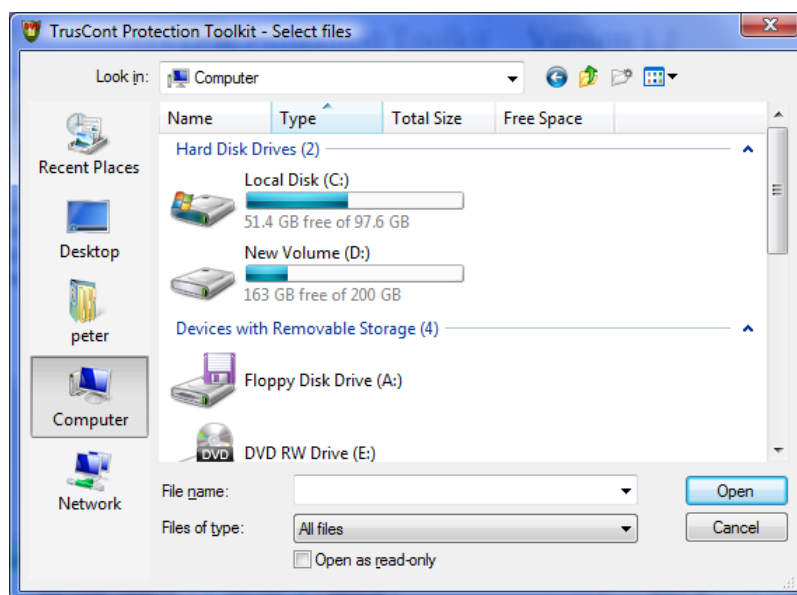


Figure 4: Add Files Dialog

3.2.3.2 **Removing Files and Folders**

To remove files or folders from your project, select the file or folder you wish to remove and then click the 'Remove' button. You can also right-click

any file or folder on the left or right panels and click 'Remove' from the popup menu.

3.2.3.3 Marking Files for Protection

While the left panel of the 'Edit Project' page lists all the files and folders of your project, the right panel lists only the files types which can be protected using the Toolkit. When the root folder on the left panel (the disc icon) is selected, the right panel lists all the protectable files of your project. When a sub-folder is selected, the right panel lists only the protectable files within the selected folder and the sub-folders under it.

On the right panel, check the boxes next to the files that you wish to protect. Once recorded to the Enhanced DVD-R disc these files will be functional only if the specific DVD-R disc on which they are recorded is present in one of the local DVD drives of the end user's computer. The rest of the files will remain unprotected and the customer will be able to copy and use them from his local Hard Drive even if the specific DVD-R disc is not present in one of the local DVD drives of his computer.

To select all files listed on the right panel, click the 'Protect All' button. To clear all selections click the 'Clear Selection' button.

3.2.3.4 Protecting Digitally Signed Program Files

Some files may be digitally signed. Digital signatures are often used on program files for various purposes such as validating the file's content. When applying copy protection to program files, the files are changed. If the files are digitally signed, then digital signature can no longer be used in order to validate the file. The functionality of the file is not affected. However, some operating systems, such as Windows Vista and Windows XP may require end users for confirmation of running the protected files.

3.2.3.5 Customizing Copy Protection Options for Individual Program Files

It is also possible to customize the copy protection behavior for individual files. To customize the copy protection behavior of a specific program file double click the specific file from the right panel, or right-click the file and select 'Option' from the pop-up menu.

Protection box title

Whenever a user tries to run a protected file without the original disc present, the protection system displays a message box containing a standard error message. This field allows you to customize the title text of this message box.

Protection box text

This field allows you to change the text of the message that will be displayed whenever a user tries to run the protected file without the original disc present in his computer.

Allow execution from another media

This option is enabled by default. It allows the end user to copy the protected files to his local Hard Drive or any other media for performance or other purposes. However, the original disc must be present in one of the local DVD drives in order to run the file. If this option is turned off, the user can run the protected file only directly from the original disc.

Background Checks

This option is disabled by default. If enabled, the copy protection system will perform periodic security checks as long as the protected file is running in the computer memory. In case the original disc is ejected from the local DVD drive, the copy protection system will suspend the operation of the protected file and display a warning message asking the user to re-insert the original disc back in the DVD drive.

Terminate on Eject

This option is disabled by default. It works in a similar way to the background checks. However, this option causes the protected program to terminate immediately in case the disc is ejected from the DVD drive.

Password

You can also protect your files by using a password. Just type in the password you wish to apply to your file. Whenever an end user will try to run the protected file, the copy protection system will display a dialog box asking for the password.

Important Note: The password cannot start or end with space characters. Spaces at the beginning or/and end of the password are automatically truncated.

Expiration date

Check this option to apply a time limit on your files. Select the date in which your files will expire. After the specified date your files will no longer be usable. Trying to run the protected file after the specified date will display a message indicating the application has expired.



Figure 5: Copy Protection Options for Individual Program Files

3.2.3.6 Customizing Copy Protection Options for Individual PDF Files

For PDF Documents the Toolkit provides several copy protection options in addition to the copy protection options for program files that are configurable also for PDF documents.

Important notes:

- The Toolkit preserves the original PDF file's security attributes. For example, if the original unprotected PDF file has the printing attribute disabled, then the protected PDF file will also have printing disabled, even if you specifically allow printing in the protection options.
- The PDF files are converted to EXE files during the protection process. If your project already contains an EXE file with the same name of your PDF file, and the two files are located within the same folder, this conversion cannot be performed and an error message is displayed.

Enable Copy & Paste

This option is disabled by default. If enabled, it allows end users to copy and paste text and images from the protected documents to other applications.

Allow Printing

This option is disabled by default. If enabled it allows end users to print the protected documents.

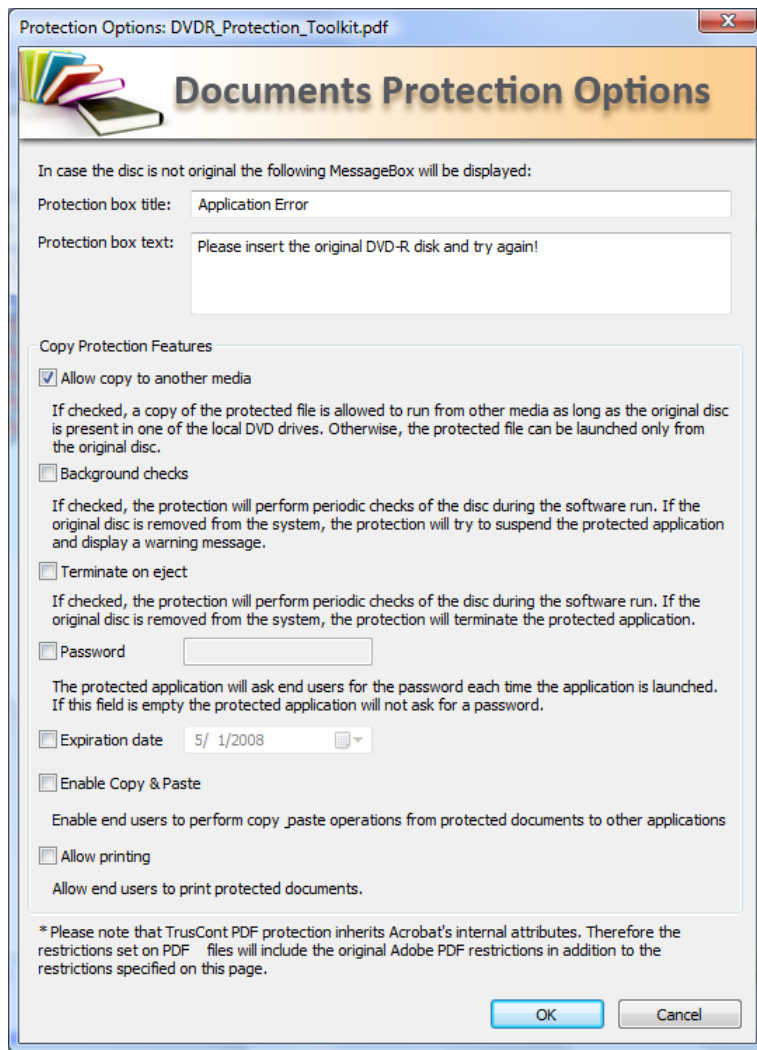


Figure 6: Copy Protection Options for Individual PDF Documents

3.2.3.7 Customizing Copy Protection Options for Multiple Files

To set copy protection options for multiple files, click the protection options button then select the file type for which you wish to set the protection options. The Toolkit will apply the protection options to all the files of the type you have selected and are marked for protection.

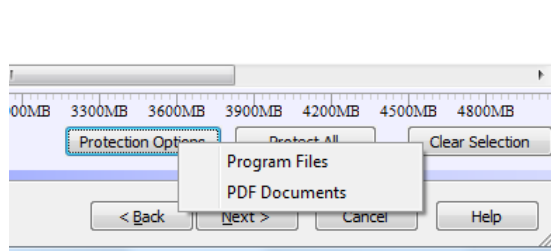


Figure 7: Setting Protection Options for Multiple Files

3.2.3.8 Clearing a Project

To clear your project, right click the disc icon on the left panel and select 'Clear Project' from the popup menu. Selecting this option will remove all the files and folders from your project and clear the list of files to protect on the right panel.

3.2.4 Naming a Project

Once you have finished editing you project, click next to proceed to the 'Volume Information' page.

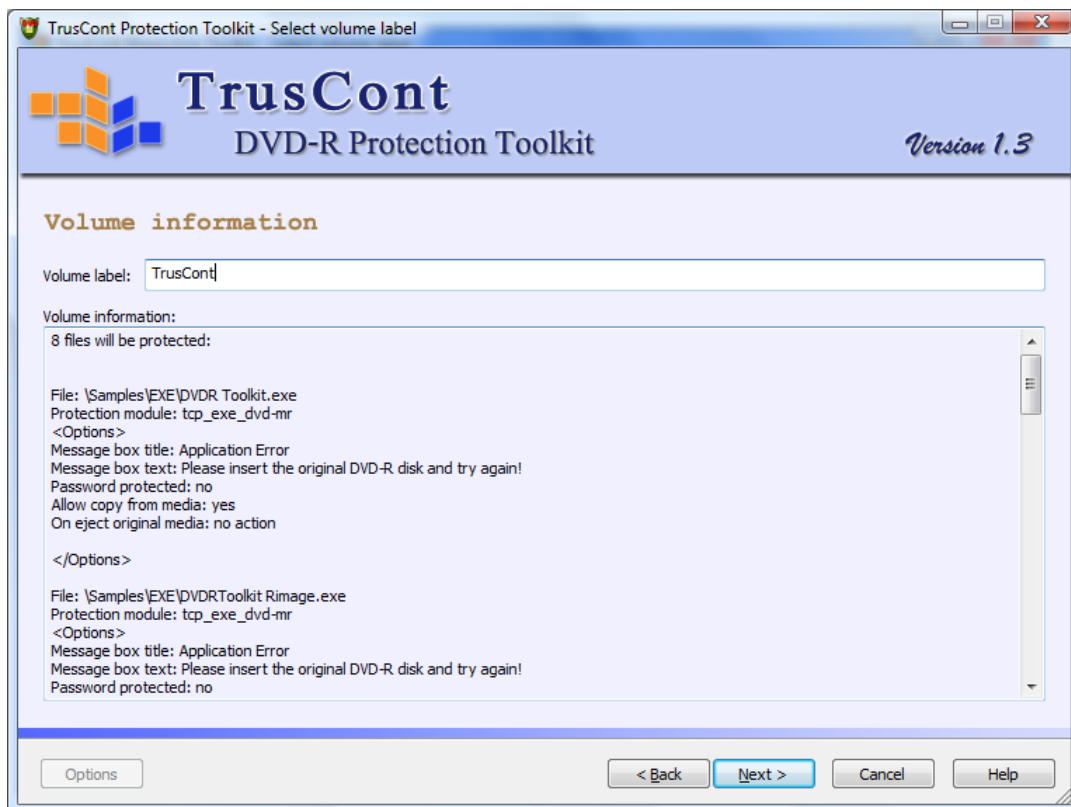


Figure 8: Volume Information Page

The 'Volume Information' page allows you to change the 'Volume Label' (media title). The volume label is the caption that is usually displayed next to the drive letter in windows explorer and 'My Computer'. This helps you or your users to easily locate your TSFD among your other drives. The volume label is limited to English characters and numbers.

3.2.5 Saving & Duplicating Your Project

When you finish creating your project you can start recording it immediately onto TrusCont Enhanced DVD-R discs by selecting the 'Start Duplicating' task (see figure 6). For additional instructions on duplicating your project please refer to the instructions in section 3.4 – *Opening Existing Projects for Duplication*.

You can also save your project for future use in case you plan to record additional DVD-R discs with the same content. To save your project, follow the instructions below. Please note that the Toolkit only saves a file that describes your project. Your project's files are not copied from their original location and it is essential that it will not be changed or moved if you wish to use the same project in the future.

1. Select the 'Save Project' option and click next.

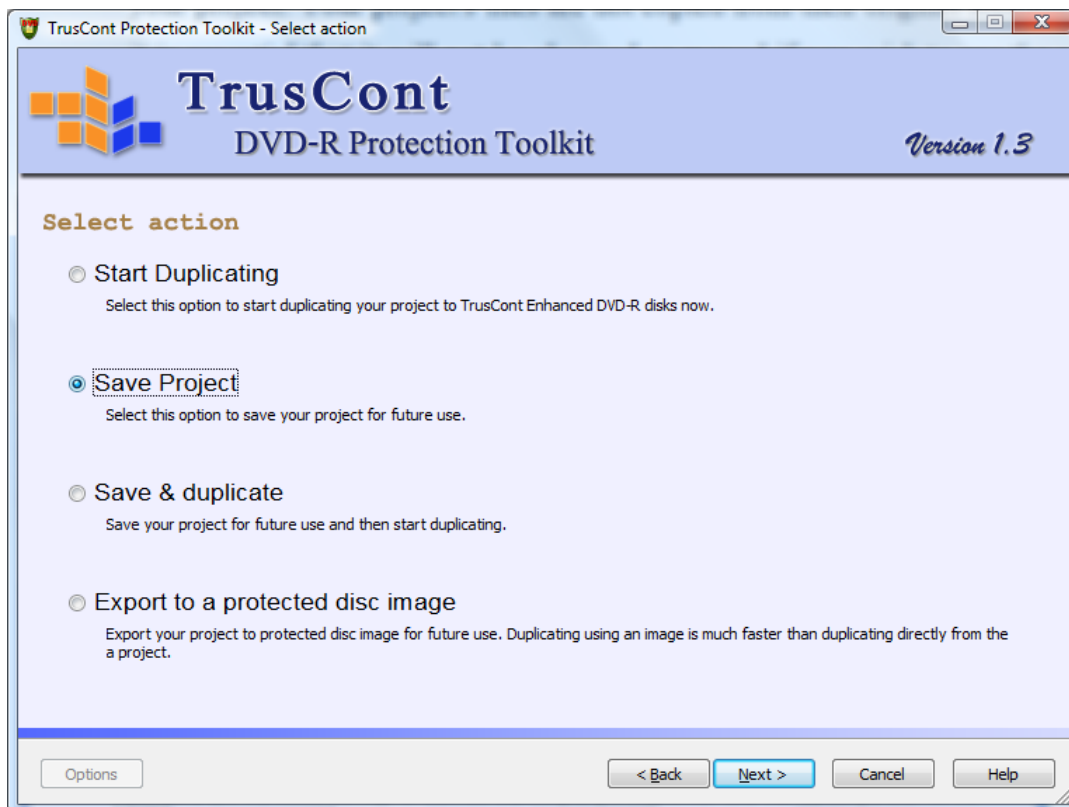


Figure 9: Saving and Duplicating New Projects

2. The 'Save Project' page will appear.

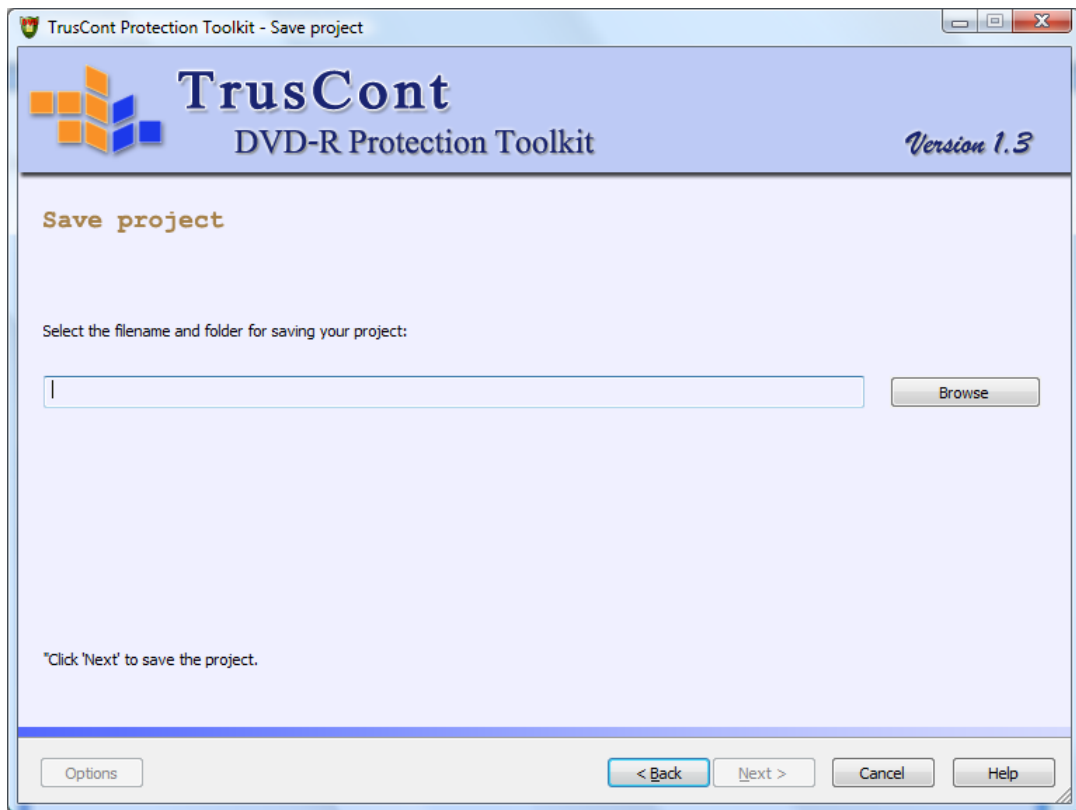


Figure 10: Save Project Page

3. Click the browse button to open the 'Save As' dialog and select the folder and filename under which your project will be saved.
4. Click 'Save' on the 'Save as' dialog then click 'Next' on the 'Save Project' page.

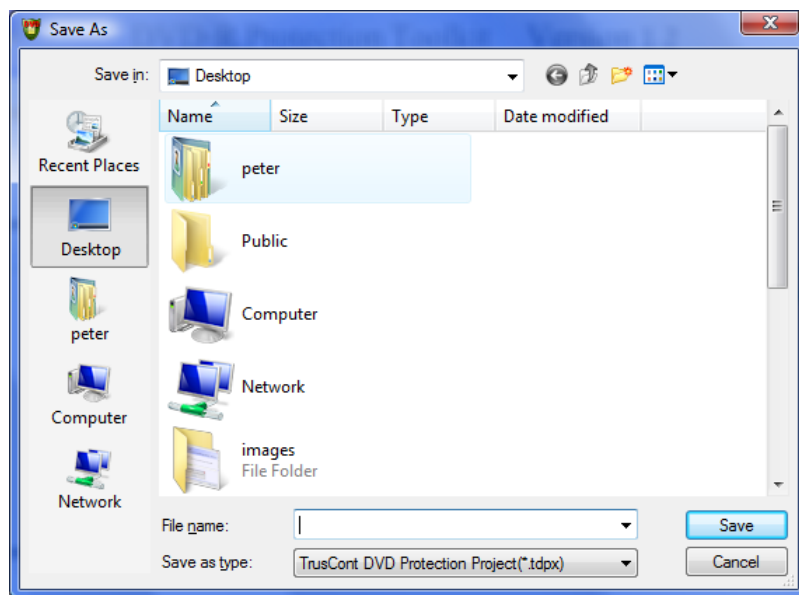


Figure 11: Save As Dialog

3.2.6 Exporting Your Project to a Protected Disc Image

Exporting your project to a protected disc image is an easy way to save your project for future duplications. Your project is saved in a single data file.

Duplicating using an image file provides better performance than duplicating from a project, but once created it cannot be changed. Changes can be performed only by changing the saved project and then creating a new image file.

You can create an image file from a new project by selecting the 'Export to a Protected Disc Image' option at the end of the project creation process (see figure 6). To create an image file from an existing project, open the project (see section 3.3 – modifying saved projects), make changes if required or just click next to leave the project unchanged. At the end of the process select the 'Export to a Protected Disc Image' option.

Important notes:

1. Current version of the Toolkit doesn't support saving an image under a localized filename. Make sure you use only English characters for the image name and folder.
2. Images produced with version 1.3 of the Toolkit cannot be recorded using earlier versions of the Toolkit and TrusCont Add-On for Rimage version 1.1 or earlier.

3.3 Modifying Saved Projects

To modify an existing project follow these simple instructions:

- A. Run the Toolkit, wait for the welcome page to appear then click 'Next'.
- B. Select 'Modify Existing Project' and click 'Next'.
- C. Click 'Browse', select the project you wish to modify then click 'Next'.
- D. Refer to section 3.2.3 – *Editing a Project* – for additional instructions on editing your project.

3.4 Opening Existing Projects for Duplication

- A. Run the Toolkit, wait for the welcome page to appear then click 'Next'.
- B. On the 'Select Task' page choose 'Burn Existing Project' and click 'Next'.

- C. The 'Open Project' page will appear. Click 'Browse' to select the project you wish to duplicate.
- D. Click 'Next' to move to the 'Select Target' page.

3.4.1 Selecting the Target DVD Recorder

The Toolkit automatically detects all DVD recorders connected to your host computer. The detected devices are listed in the drop-down list box next to the 'Select Recorder' label. The Toolkit also indicates that type of disc inserted in each recorder. This indication appears in brackets next to each recorder (see figure 12). The following table lists the possible indications and their meanings:

Indication	Meaning
No Disc	No disc in drive
TrusCont Enhanced DVD-R	Drive contains a TrusCont compatible medium and is ready for recording
Disc is no empty	The disc in the specified drive is already recorded
Incompatible DVD-R	The disc in the specified drive is not a TrusCont
Unknown Disc	The Toolkit is unable to detect the type of disc in the specified drive.
Not supported	Your recorder is not supported by the Nero version installed on your computer. Try to upgrade to the latest Nero version.

3.4.2 Setting Write Speed

Select the write speed in which you wish to record your discs. Please note that the Toolkit allows you to select from the supported write speeds of your recorder. However, the actual recording speed may vary depending on your media and computer performance.

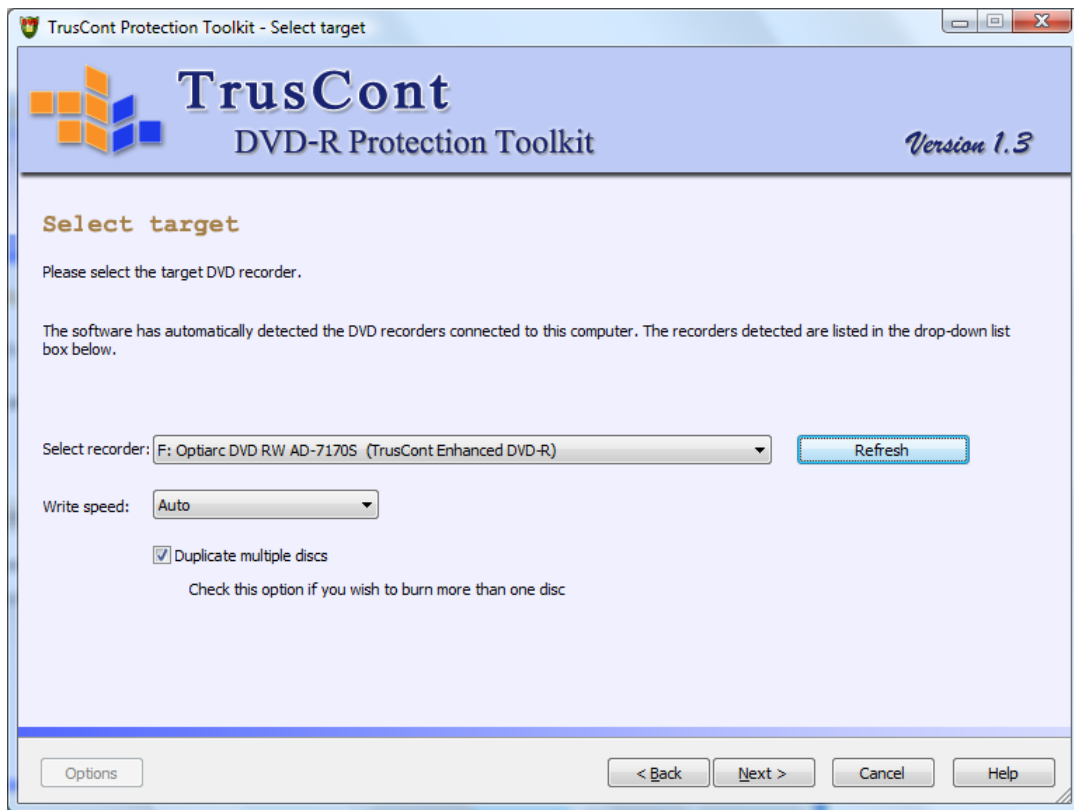


Figure 12: Select Target Page

3.4.3 Recording Multiple Discs

If you wish to record more than one disc in a single process, check the checkbox with the label 'Duplicate multiple discs'. After recording each disc the Toolkit will ask you to place a new blank TrusCont Enhanced DVD-R to continue recording the next disc or click cancel to stop the duplication process.

3.4.4 Starting the Duplication

Verify the volume label of your project and target recorder. Click 'Next' on the confirmation page to start the duplication process.

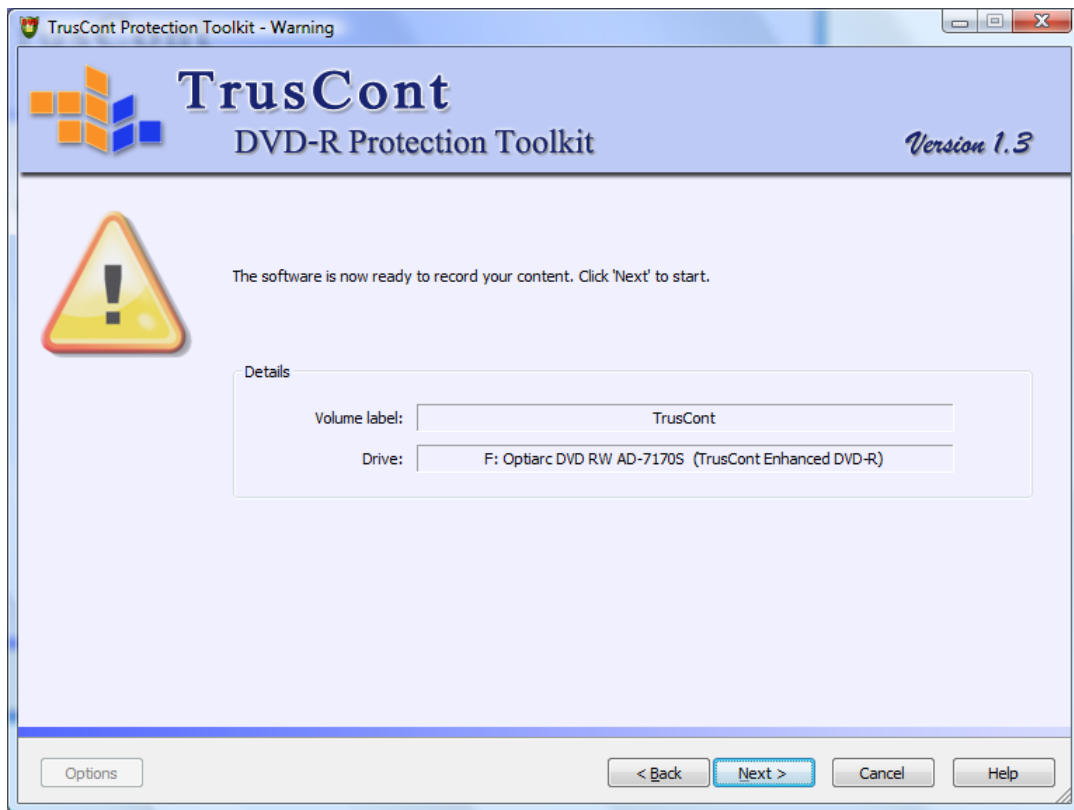


Figure 13: Confirmation Page

Wait for the recording process to finish. If you chose to duplicate multiple discs, at the end of the recording process the Toolkit will prompt you to insert a new blank Enhanced DVD-R disc to continue recording the next disc.

During the recording process the Toolkit connects to TrusCont Licensing Server and attempts to query a license for recording the disc. Each license is used only once for each disc. Make sure your computer is connected to the Internet and your Hardware License Key is connected to your computer.

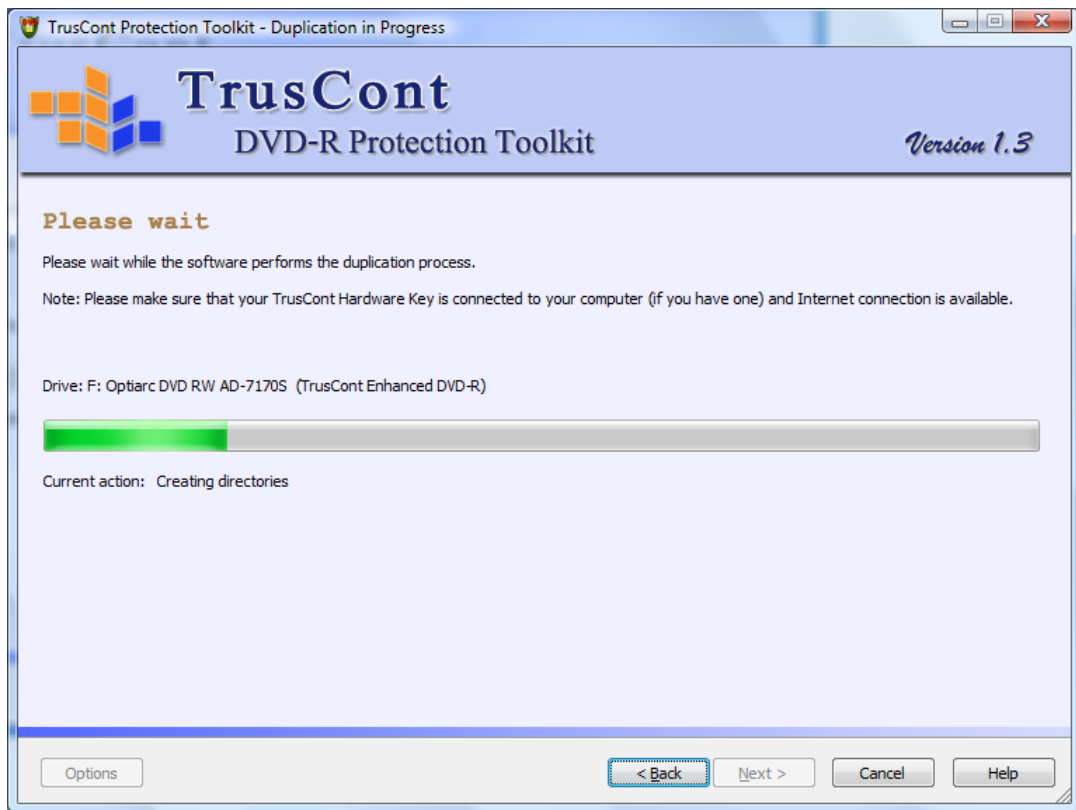


Figure 14: DVD-R Recording Process

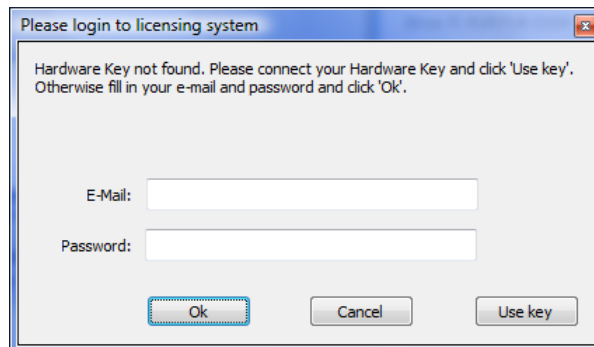


Figure 15: The Password Dialog

In case you do not have a Hardware License Key, the Toolkit displays a username/password dialog. Enter your username (email) and password of your TrusCont account. If you do not have a Hardware License Key or an account on the TrusCont Licensing Server, please contact TrusCont support to get a Hardware License Key and create an account.

3.5 Using the Toolkit's Project File Association

Installing the Toolkit on your computer also associates the TrusCont DVD Protection file types with the Toolkit. This allows you to open a saved project or a protected gold master image by simply double-clicking it. In case of a saved project, the Toolkit will be launched, open your project and skip directly to the 'Edit Project' page allowing you to modify it before proceeding with the duplication process. In case you double click an image the Toolkit will automatically open it for duplication and skip directly to the 'Select Target' page.

4. Troubleshooting & Known Issues

A. Symptom

On the 'Edit Project' page, some files on the right panel appear with a “lock” icon and cannot be marked for protection:

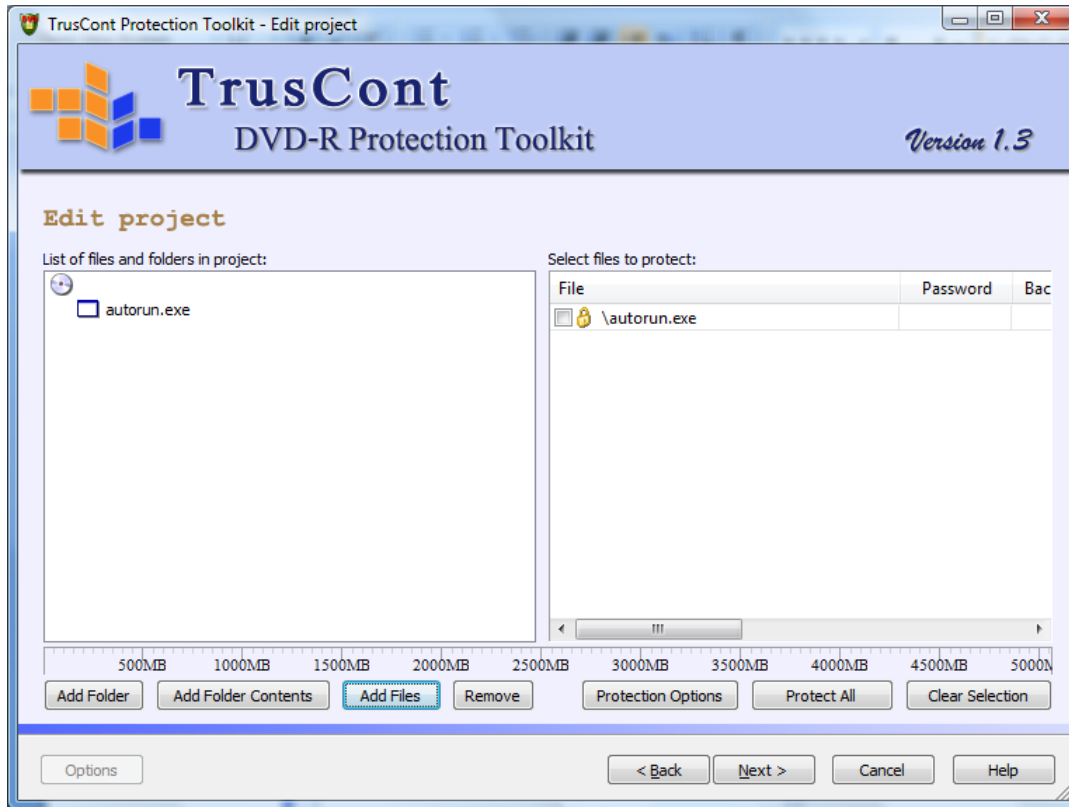


Figure 16: Previously Protected Files Indication

Resolution

The files that appear with a “lock” icon are files that have been protected in a previous operation. The copy protection cannot be reapplied on already protected files. Remove these files from your project and use the original unprotected copies of the files.

B. Symptom

On the 'Edit Project' page, some files on the right panel appear with a 'No-Entry' sign icon and cannot be marked for protection:

Resolution

The files that appear with a 'No-Entry' sign icon are not supported by the current version of the Toolkit. The current version supports protection of 32 bit executable files only. If the files that appear in red are 32 bit executables then it may have non-standard structures.

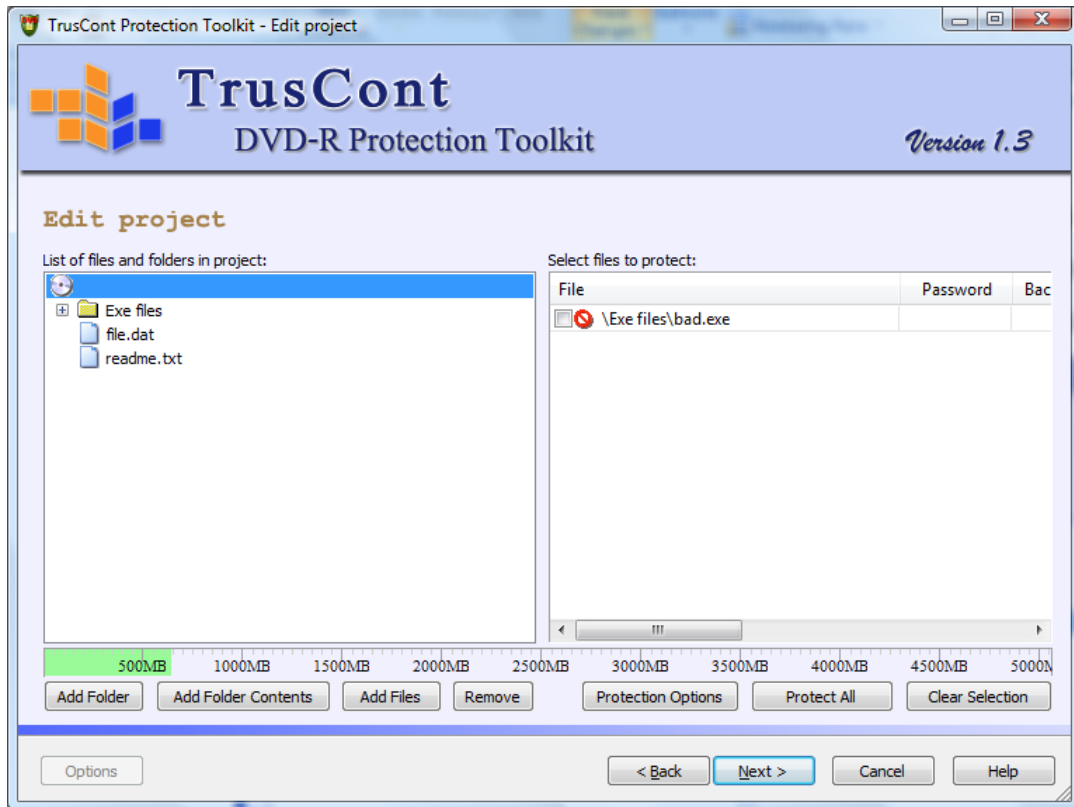


Figure 17: Unsupported Files Indication

C. Symptom

On the 'Edit Project' page, when clicking the 'Select All' button, the following message appears:

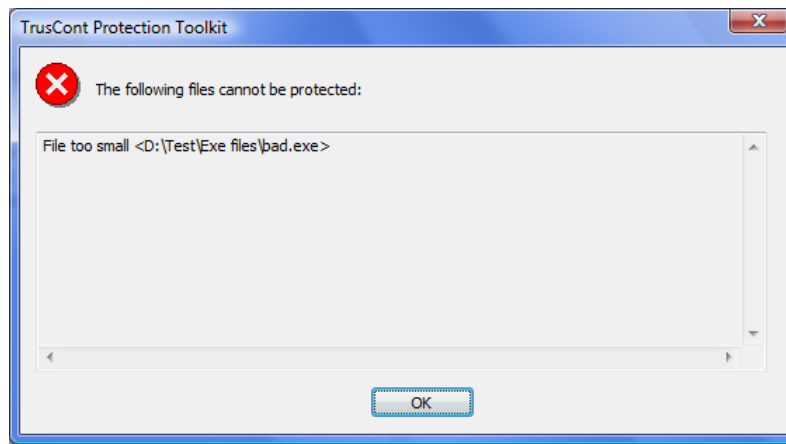


Figure 18: Unsupported Files Notification

Resolution

This message appears when you click the 'Select All' button and your project contains some executable files that cannot be protected. The message notifies you that some of the files you may wish to protect couldn't be protected.

Some files are not built strictly according to the PE file format specification (windows program files format). Some deviations from the specification may prevent the Toolkit from applying the copy protection on such files. Usually the Toolkit can detect such deviations and prevent you from marking such files for protection.

Please note that in rare occasions Toolkit may encounter such deviations only when actually trying to apply the copy protection (depending on the actual deviation). In this case you may encounter the above message just before starting the duplication process. If the problematic file(s) are not critical to protect, retry the process without protecting these files. Otherwise, please contact TrusCont support for additional assistance.

D. Symptom

When opening a saved project one of the following error messages appear:

- a) Failed to open project. The file <filename> was changed.
- b) Cannot open the file <filename>. The system could not find the file specified.

Resolution

When opening a saved project the Toolkit verifies the existence and integrity of the project's files. The above error messages indicate that at least one file was either changed or removed since the project was last saved. It is recommended that you

reorganize your project's files, test their functionality and recreate your project using the Toolkit.

E. Symptom

When selecting a file to protect in the 'Project Edit' page the following error message appears:

"Failed to protect the file <filename>. Error: Code section too small."

Resolution

Applying the copy protection on a program file involves in injecting the copy protection software code to the program file. If the file's software code is too small this operation cannot be performed. Please note that even though the file may be very large, it may contain large resources such as graphics and text, the actual files size is usually not an indication to the file's software code size. If the specific file is critical to protect, please contact TrusCont support for further assistance.

F. Symptom

When starting the duplication process the following error message appears: "Failed to query a license"

Resolution

TrusCont DVD-R Protection Toolkit requires a license for recording each Enhanced DVD-R. During the recording process the Toolkit looks for your Hardware License Key or asks you for a username and password. The Toolkit then tries to connect to your account on the TrusCont Licensing Server and retrieve a license. Make sure your Hardware License Key is connected properly or that you are using the correct username and password. Make sure your computer is connected to the Internet and you have enough licenses left in your account.

G. Symptom

DVD-R Protection Toolkit halts if SanDisk U3 compatible devices are connected to the host computer during production.

Resolution

TrusCont DVD-R Protection Toolkit uses Ahead Nero Burning Rom recording engine which conflicts with SanDisk U3 compatible devices. Please disconnect any U3 compatible USB devices from your host computer before starting TrusCont DVD-R Protection Toolkit.

Appendix A – High Volume Productions Using Rimage

In addition to the standard version of the DVD-R Protection Toolkit, TrusCont also provides a Rimage Edition of the software. The Rimage Edition allows the user to send the project to a Rimage Productions Server instead of recording the project on a local drive.

Important note: In order to send jobs to a Rimage Production Server, you need to install the TrusCont Add-on for Rimage on the specific Rimage server. Please refer to TrusCont website or contact TrusCont support in order to get your copy of the Add-on.

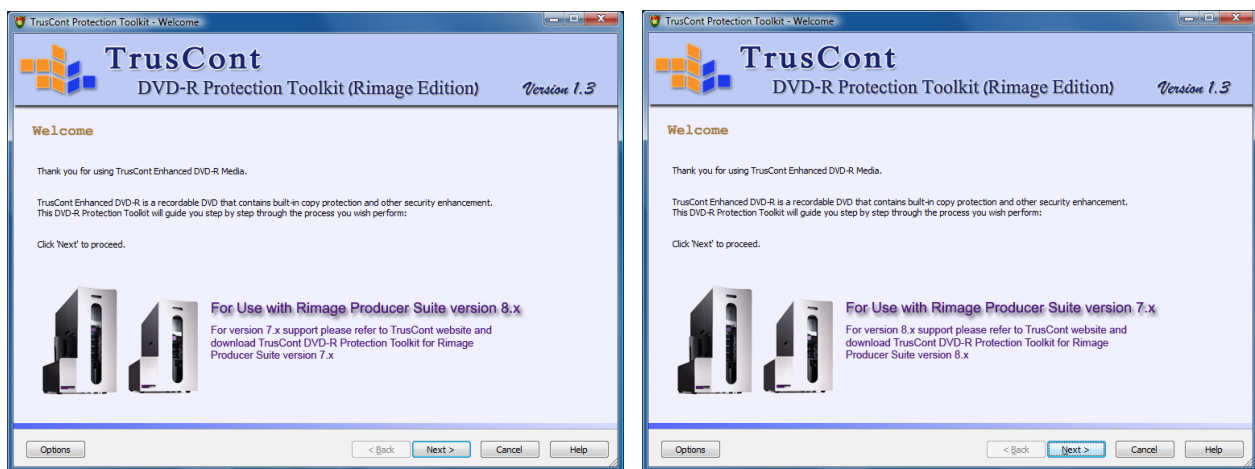


Figure 19: DVD-R Protection Toolkit (Rimage Edition)

TrusCont provides 2 installation files of the Rimage Edition. One for Rimage Producer Suite version 7.x and one for version 8.x. Make sure you install the correct Toolkit. It is not possible to send jobs to Rimage Production Server version 7.x using the Toolkit for Rimage Producer Suite 8.x and vice versa. To find out which version of the Toolkit you have, just run the Toolkit. The Rimage Producer Suite for which it is built appears on the welcome page.

To send the job to a Rimage Production Server, please follow these simple instructions:

1. Create a project using the instructions on this document.
2. On the 'Select Target' page select the 'Send to Rimage Production Server'
3. Type the network identification name of your Rimage Production Server in the 'Server' field.

Note for Windows 2000 users: Computer names in Windows 2000 are limited to 15 characters.

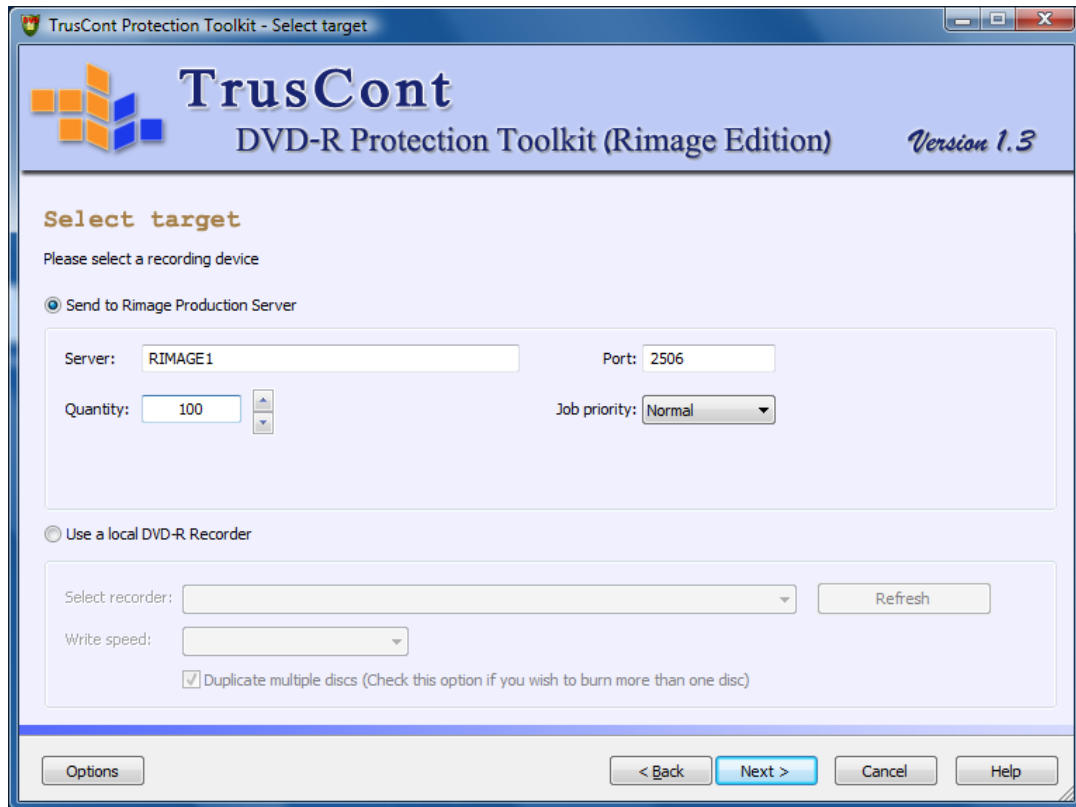


Figure 20 : Sending a Job to Rimage Production Server

4. If you are using a non default network port for communicating with your Rimage Production Server specify the port number in the port field. The default port number on Rimage 7.x systems is 2506. The default port number on Rimage 8.x systems is 4664.
5. Specify the number of copies you wish to produce and the job priority then click 'Next' to send the job to the Rimage Production Server.
6. The Toolkit will display the status and progress of your job until it is completed. You may close the Toolkit if needed. The job will continue to be processed by the Production Server.

Multi Media Replication

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