

Using the EclipseSuite ImageSignature feature

Signature support is a function of ImageIntegrity and is supported as of EclipseSuite 4.0. Use of Signatures is controlled by a Behavior in the EclipseSuite applications. To enable Signature use, check the Signature box in the General Behavior section of ImageAnalysis, ImageCopy and ImageVerify.

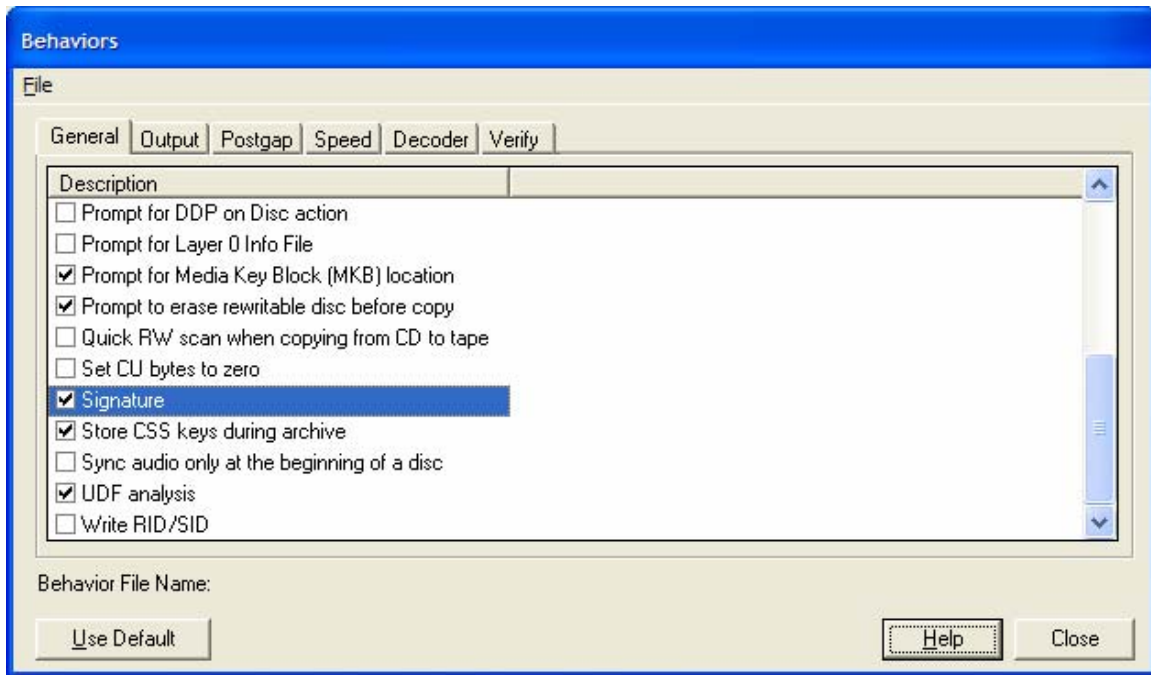


Figure 1: Enabling Signature Behavior

Once the Signature behavior is enabled, ImageCopy will calculate a signature value for all supported images. The value will be stored in a .ESG file that will be placed in the image directory. The file will be named the same as the image name, for example, an image with the name 123ABC will have a signature file 123ABC.esg.

Example of .ESG file contents:

```
[Signature]
Version=1.00
Signature=8B661D9D86DEAC8A487FE07A94AEB9CD
```

```
[LogfileName]
*123ABC*
```

```
[SignatureDisplay]
*8B661D9D86DEAC8A487FE07A94AEB9CD*
```

The signature file can also be stored in the directory of your choice by specifying a “Signature Directory” in the Preferences screen as shown in Figure 2.

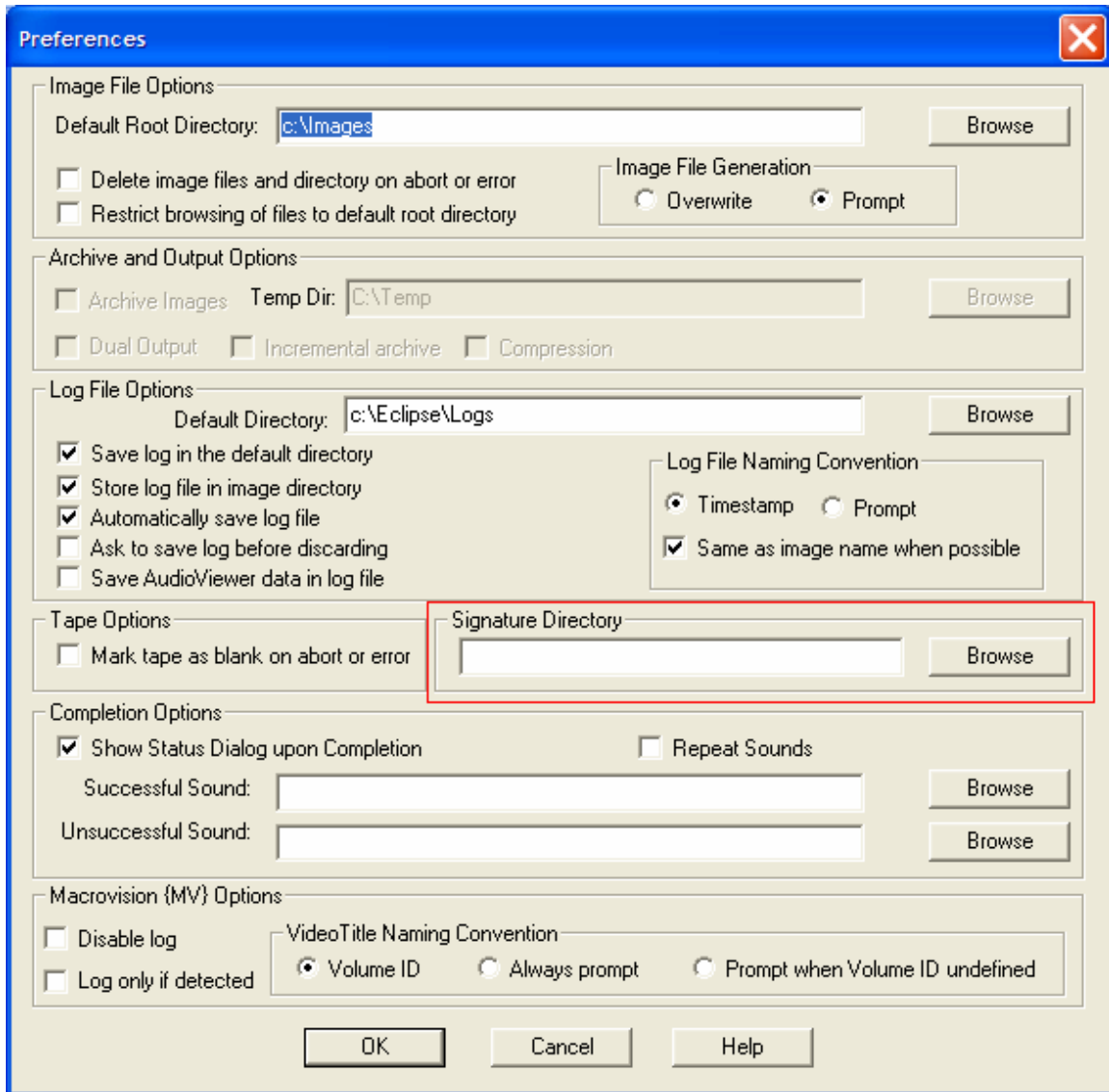


Figure 2: Setting Default Signature Directory

In addition to storing the Signature value in an .esg file, the Signature will be displayed on the analysis screen of all EclipseSuite programs (Figure 3).

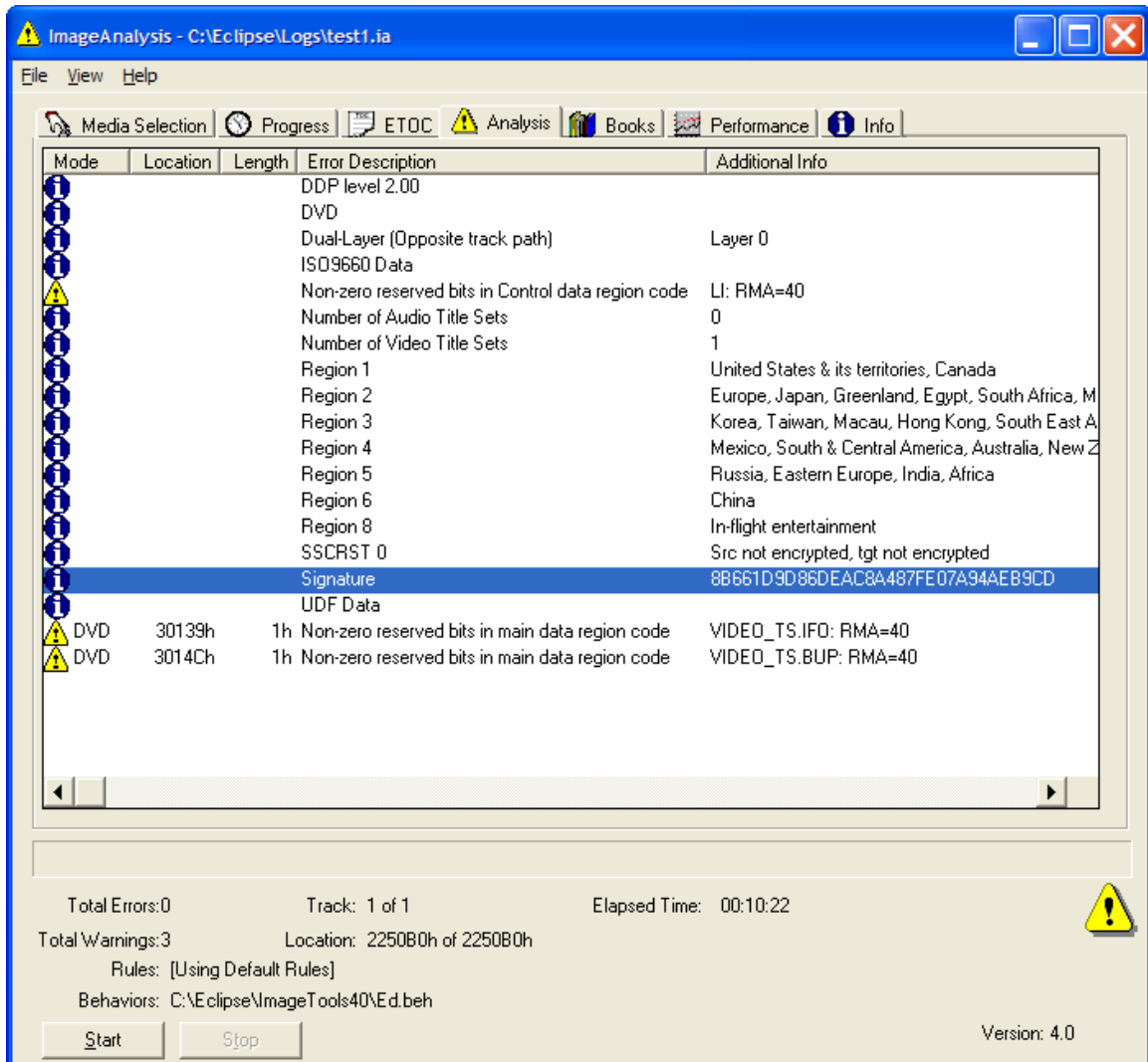


Figure 3: Signature Displayed during ImageAnalysis

Use of ImageSignature with ImageVerify

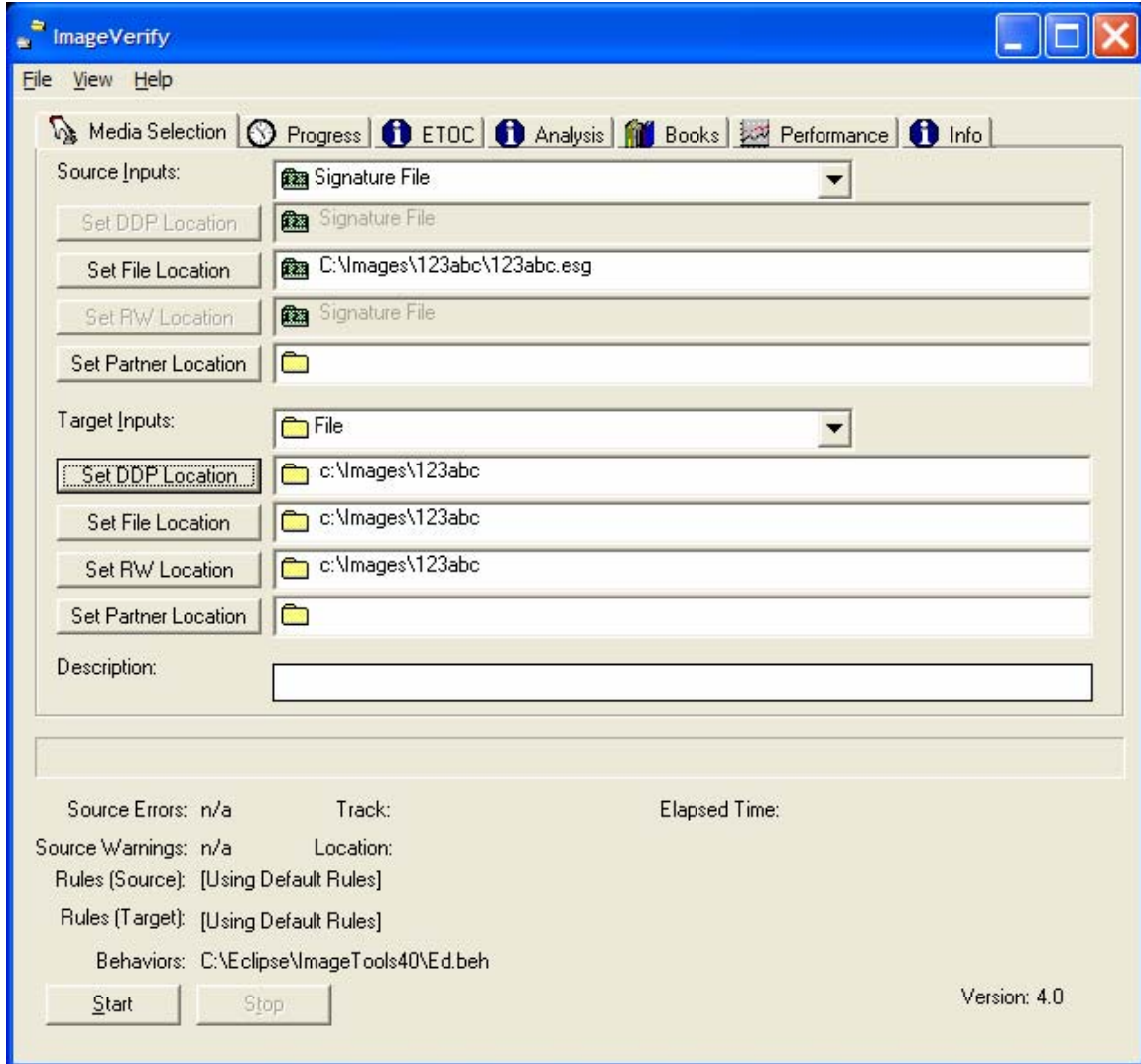


Figure 4: ImageVerify with Signature File verification

Signature verification takes place using ImageVerify. There are two different methods available for Signature verification. One option is to use the .Signature file that was created for the image. To use the .esg file, select “Signature File” from the ImageVerify media selection drop down menu. You then need to locate and specify the proper file location using the “Set File Location” button. Figure 4 shows the Media Selection tab settings when using the Signature File as the source for verification.

This method offers a simple and effective way to input the signature data via a file. It is necessary, however, that the signature file be available to the ImageVerify workstation. This has posed a challenge for some customers who do not want the ImageVerify workstation networked and who do not want to manage removable media associated with each job. The signature file will fit on a floppy disk.

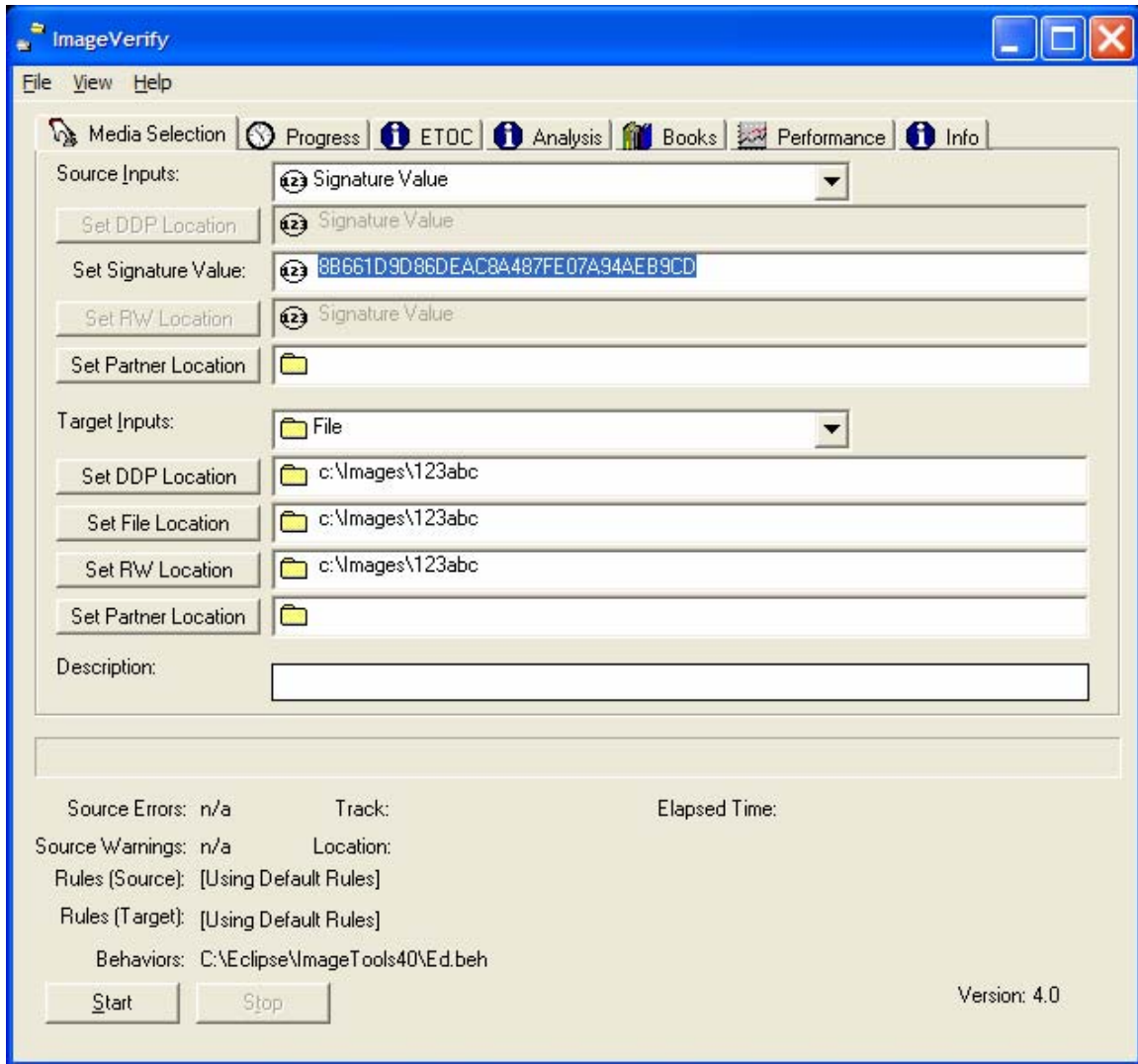


Figure 5: ImageVerify with Signature Value Entry

An alternative to the Signature File verification is “Signature Value” verification. Using this approach, the actual signature value is entered into ImageVerify. The 128 bit signature is represented in a 32 character value which can be typed or input via a barcode reader. Figure 5 shows the media selection screen set for this type of verification.

Using the Signature Value method allows the ImageVerify workstation to be totally isolated and free from the problems associated with managing removable media such as a floppy diskette.

Apart from properly selecting the Signature source, ImageVerify is operated in the same manner as any other job. In the event of a data mismatch, the rule “Signature Comparison Error” will be triggered and displayed in ImageVerify analysis screen. This is shown in Figure 6. In the event of this condition, the results need to be thoroughly investigated.

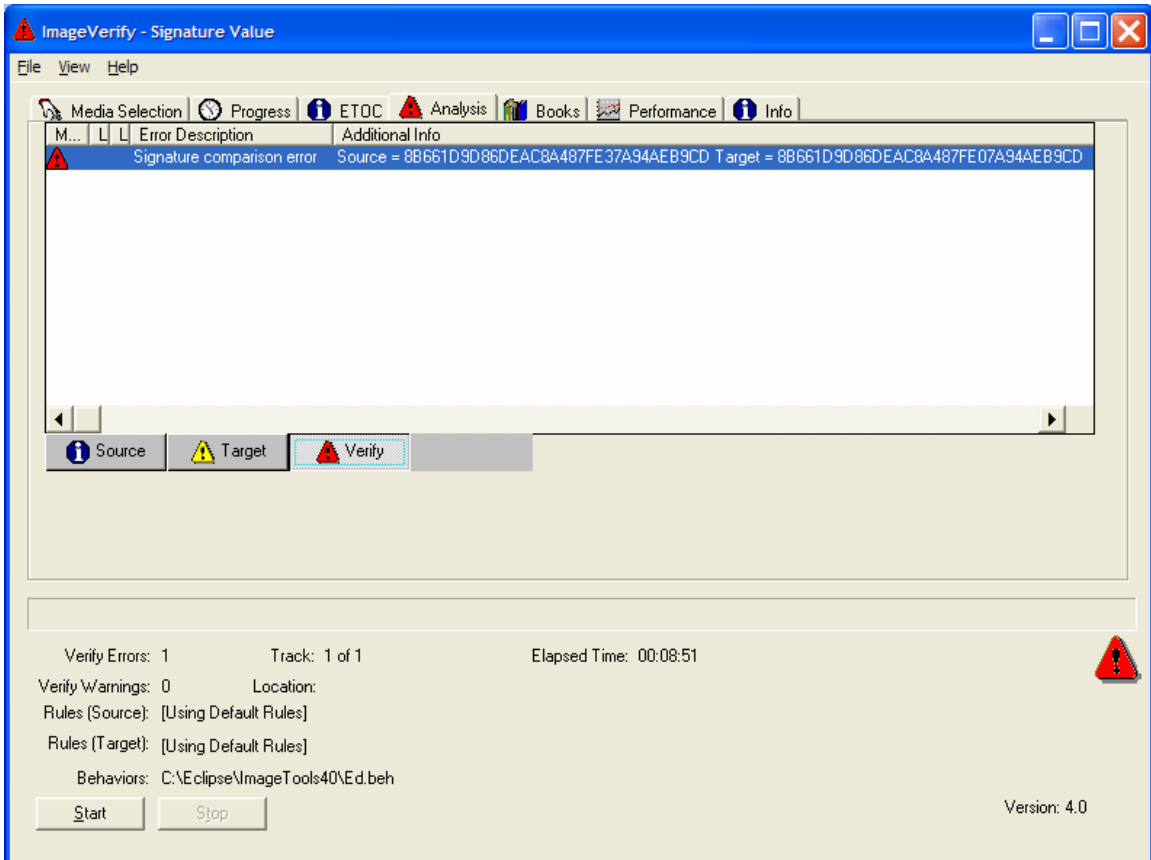


Figure 6: Signature Comparison Error