



## Obtaining Software Signatures on Storage Media Devices Utilizing the TEST Pro v1.0.1 Program

### Instructions for TEST Pro v1.0.1 Use

Items required to utilize TEST Pro v1.0.1:

- *USB Flash Drive* (This is necessary to utilize **TEST Pro v1.0.1** as a mobile application)
- *USB Hub* (Device to support multiple USB devices)
- *USB Keyboard*
- *USB Mouse* (Optional)
- Manufacturer support on the device
- Lab Report containing software signatures used for verification

1. Start the **TEST Pro v1.0.1** program.
2. Use the navigation pane on the left side of the screen to locate the drive, directory or file to be verified.
3. From the “Algorithm” drop down list, select the desired algorithm that will be used to generate software signatures.
  - a. If the CRC16 algorithm is selected, a “SAS Seed” can be input that will be used to generate the software signatures. Otherwise, the default of “0000” will be used.
4. From the “Sort” drop down list, select the desired sorting algorithm that will be used to generate software signatures.
5. If a more secure software signature is desired, enter a value into the “Secret” field. This will be used with the selected algorithm to produce a more secure signature.
6. Use the “Include” and “Exclude” fields to input any file inclusions or exclusions. **Note:** For instructions on how to set inclusions and/or exclusions, please refer to the “Include/Exclude” section below.
7. Select the filenames to store the **TEST Pro v1.0.1** signature calculations. This information is located under the two fields identified as “Manifest” and “Output”.
  - a. Click the “...” button to select the directory, and name the output files, for both the Manifest and Output files. **Note:** For information on how to use the Manifest file for validation, please refer to the “Validate” section below.
8. Select the “Verbose” checkbox to display detailed information in the signature output or select the “Ignore First Dir Name” checkbox to limit information displayed by ignoring the first folder name.
9. Click the “Sign” button to obtain the **TEST Pro v1.0.1** software signature output.

10. After a brief calculation, the **TEST Pro v1.0.1** program will display the signature calculations for the Volume, Directory, or File.
11. The **TEST Pro v1.0.1** signature calculations for all files and directories contained in a Volume or Directory will be stored in the Output Files selected in step 6a. This enables you to perform the **TEST Pro v1.0.1** signature calculations on multiple files with one click of the mouse. The Output Files will list the **TEST Pro v1.0.1** signatures by file name in the appropriate directory. The Output Files may be viewed with a text editor, i.e. Notepad or Wordpad.
12. Compare the software signatures documented in the **TEST Pro v1.0.1** output file to the software signatures published within the **eclipse Compliance Testing Lab** report.

### **Include/Exclude**

There are three types of includes and excludes. This function can be used to include and/or exclude a certain file extension, filename, and/or folder name. The methods that must be used to perform an inclusion or exclusion are detailed below:

- To include or exclude files with a certain file extension, a “\*” must be used before the file extension.
  - For example: “\*.log” will exclude any log files or only include log files.
- To include or exclude a certain file, the entire file name must be input.
  - For example: “app.config” will exclude any file named app.config or only include files named app.config.
- To include or exclude a certain folder/directory the entire folder or directory name must be input.
  - For example: “bin/” will exclude any directory with the name bin or only include directories named “bin”.

These three methods can also be combined to include and/or exclude certain file extension, filename, and/or folder name within the same output file.

- For example: Inputting “bin/\*.log,app.config” will produce an output that will include and/or exclude the file extension, filename, and/or folder name described in the previous examples.

### **Validation**

The Validation function can be used to validate software using a manifest file that was previously produced. To perform a validation, follow the method provided below:

1. Utilize the navigation pane on the left side of the screen to navigate to the manifest to compare the file/directory to. Note: This process does not require an algorithm to be selected as this has been determined in the manifest file.
2. Select the “Validate” button.
3. The results of the validation will be displayed in the diagnostic box in the **TEST Pro v1.0.1** tool. **Note:** If a validation is being conducted on signatures calculated with a “Secret”, the Secret will need to be input before validation. This also applies to signatures that use a “Seed” value.