To: Eclipse Support Agreement and Warranty Customers

Date: October 10, 2008

Subject: EclipseSuite 5.2 Release

Description:

This document is to notify all support agreement and warranty customers of the **EclipseSuite 5.2** released.

Fixes & Enhancements:

- **Partner Layer association fixed for ImageDecoder capturing.**

  Identified and fixed a problem where Image Analysis was not accessing the partner location when it was listed in a DVD 9 image directory. When this problem happened Image Analysis would not have the proper layer_info and control information to properly analyze and image. This problem resulted in several errors reported on the captured image.

- **Behavior "Advanced UDF analysis for video applications only" is now renamed to "Advanced UDF analysis for computer data"**

- **Validate that the VMG and VTS specified lengths match the actual end sector of the associated backup files.**

- **Behavior "UDF analysis" is now renamed "UDF file cache"**

- **Fixed a problem that was preventing the progress information from being displayed.**

  When the "Full Advanced UDF directory scan for computer data" was disabled in the Behavior menu the progress information was not being displayed. This has now been fixed so the progress is displayed during this scan.

- **Implemented CD/DVD recording support for the Pioneer BDC-202 BD-ROM drive.**

- **Added the ability to perform an 8X CD-Audio read back speed for Plextor 700 series drives.**

- **Fixed a problem where the wrong Layer_info files were used for an OTP DVD L1 analysis.**

  Enhanced our matching Layer info check for OTP DDP Layer one file set which don't have a Control.dat file included. Now when we detect an OTP DVD Layer one DDP file set that does not have a control file we will use the image file to determine the exact image length. This will provide additional assurance that the correct matching layer_info file is used for the analysis.

- **Corrected a problem where the rule "Inconsistency between UDF Main and Reserve Volume Descriptor Sequence" Add Info: Missing main record and "Inconsistency between UDF Main and Reserve Volume Descriptor Sequence" Add Info: Missing reserve record were incorrectly being triggered.**

  We have identified a problem where our analysis engine would scan for UDF Volume Descriptors beyond the total length of the descriptor as specified by the AVDP. If any unused volume descriptors were found in this area we would try to find a match in the reserve area. If a main or reserve VDS were not located we would trigger this error. This has been fixed by only scanning the VDS within their lengths as specified by the AVDP.

- **Enhanced the CDText editor to conform to the language pack block number specification.**

  When a customer source supplied the CDText file which used more than 255 blocks per language pack our CDText editor would output the CDText as is. The CDText editor will now conform to the maximum of 255 blocks per language pack.

- **Corrected a problem where ImageCopy would hang when trying to transfer a multisession image that contained RW data.**

In previous versions of EclipseSuite the ImageCopy application would become unresponsive when trying to transfer a multisession image where the audio session contained RW data. This has now been corrected so that ImageCopy can properly transfer this image type.

- **New Enhancements for UDF Analysis.**

  The UDF analysis was implemented primarily because of requirements of the HD DVD and Blu-ray formats. Although it was also implemented for DVD, it only applies for DVD-Video. In CD-ROM and DVD-ROM, UDF is not required at all.

  When analyzing UDF on an image that includes thousands of files and directories, this caused the EclipseSuite tools to become slow as the computer resources were being consumed. This is because the EclipseSuite tools saved all the UDF information in memory while analyzing the image.

  Since the UDF analysis was implemented primarily for high definition formats and DVD-Video, the UDF Analysis is always performed if HD DVD-Video, Blu-ray Video or DVD-Video is detected. For CD-ROM and DVD-ROM, the UDF Analysis behavior has been split into three different behaviors.

  "Advanced UDF analysis for computer data" - This behavior enables or disables UDF analysis on computer data images. These types of images sometimes have thousands of files and directories causing the pre-scanning of the image to take hours sometimes. In many cases, the program consumes all system resources (CPU and RAM) and eventually crashes. When it is NOT selected, this behavior allows the EclipseSuite tools to perform a UDF analysis on all images including CD-ROM and DVD-ROM. However, if it is selected, the UDF analysis is only performed on DVD-Video images.

  When this behavior is not selected, therefore, allowing a UDF analysis on CD-ROM and DVD-ROM images, the user can control the level of analysis to perform with the following behavior.

  "Full Advanced UDF directory scan for computer data" - This behavior is dependent on the one above. Selecting this behavior causes the EclipseSuite to perform a full UDF analysis on computer data images. Every directory in the image will be scanned. If the first behavior is NOT selected, then this behavior has no effect. If the first behavior IS selected, and this behavior is NOT, then the UDF analysis is limited to 3 sub-directories. Any sub-directories below that will be ignored.

  When this behavior is turned OFF, the EclipseSuite tools still analyze the UDF file structure but only the root directory and one sub-directory level. Users can change the number of sub-directories via the registry:

  \HKEY_CURRENT_USER\Software\Eclipse\[AppName]\Settings
  Name: MaxUDFDirDepth
  Value Type: DWORD
  Default Value: 1

  Where: AppName is the name of the EclipseSuite application (ImageAnalysis, ImageCopy or ImageVerify).

  When this behavior is turned ON, the new rule "**Advanced UDF Analysis**" will be triggered and the **Additional Info** column in the Analysis will report the number of sub-directory levels that are being analyzed.

  "Basic Advanced UDF info" - This behavior is independent of the other two behaviors listed above. Selecting this behavior causes the EclipseSuite tools to log limited UDF information in order to maintain a small log file size. UDF includes a Main and Reserve Volume Descriptor Sequence. Blu-ray images also include backup copies of other UDF information. Selecting this behavior will not save the Reserve or any other backup copies of UDF information. This behavior is turned ON by default.

- **Corrected a problem that caused the SafeDisc Plug-In to crash intermittently.**
  The SafeDisc Plug-In version 3.1 that was released with EclipseSuite 5.1 would sometimes cause the EclipseSuite applications to crash during startup. The new SafeDisc Plug-In version 3.2 fixes that problem.

- **Allow users to save log files in XML and HTML via the preferences.**
  The EclipseSuite Preferences now support two new options for saving log files in HTML and XML format. Previously, the EclipseSuite tools would always save these files if the Auto-Save option was selected. Now, the user can choose to save or not save the log file in these formats.

- **Disable the Start button as soon as the job is started.**
  When the user starts a job, there are a few internal processes that the EclipseSuite tools perform prior to updating the user interface. This may take some time and in some cases, the user may think that nothing is happening and may attempt to click the Start button again. Now, the Start button will be disabled as soon as it is clicked. This lets the user know that the job is in progress.

- **Change "DDP on Disc" behavior so that it does not give the user the choice to analyze the image as non-DDP on Disc.**
  There are some errors that cause the analysis of a DDP on Disc to fail (e.g. file read errors). When this happened in previous versions of EclipseSuite, a prompt was displayed asking the user if the EclipseSuite tools should proceed analyzing the media as the source and not the DDP image that is recorded on it. Since it is highly unlikely that the media was intended as the source, this prompt is being removed. The analysis should display the cause of the failure.

- **In ImageVerify, don't scan lead-out areas if the drive is a Plextor PX-800.**
  When using previous Plextor drive models, the EclipseSuite tools always checked a few sectors of the lead-out in order to determine the mode (format). Unfortunately, the Plextor PX-800 can't read the lead-out area.

- **Better handling of DDP on Disc masters when ImageCopy is running in automation.**
  Automation refers to the process of launching ImageCopy via RemoteScheduler, IEScheduler or ImageNet Scheduler.

  When an error occurred and caused loading a DDP on Disc image to fail, ImageCopy would automatically load the media as the source and not the DDP on Disc image that was recorded on it. If mastered, the result would be a replica with a DDP image recorded on it. In this version, ImageCopy now aborts the job and the log file will include details about the cause of the error.

- **Fix crash condition in ImageCopy when the output network path is suddenly disconnected and it does not reconnect within the timeout period.**
  When copying to a network drive and the connection to the network drive was interrupted, this sometimes caused ImageCopy to crash.

- **Corrected problem that caused UDF analysis errors during the copying of a CD-XA image.**
  A problem existed in previous versions of the EclipseSuite tools when analyzing CD-XA images. The UDF analysis was not able to handle the CD-XA storage mode (interleaved 2336) and resulted in several UDF errors and warnings.

- **Corrected a problem that caused the error "CSS descramble of sector failed" on layer 1 of pre-encrypted images.**
  EclipseSuite 5.1 had a problem which triggered this error on layer 1 of pre-encrypted images. This is now corrected.

Download Instructions:

The EclipseSuite 5.2 release software is available from the following links. Note that there are two different installations, the second one (es52a.exe) is for customers that have the ImageArchive option.

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ftp://ftp.eclipsedata.com/es52/es52.exe
ftp://ftp.eclipsedata.com/es52/es52a.exe

Password: ECL8es52