

**To:** Eclipse BD Customers

**Date:** January 6, 2009

**Subject:** EclipseSuite 6.0 Beta PR1 Release

**Description:**

This document is to notify all EclipseSuite BD customers of the availability of **EclipseSuite 6.0 Beta PR1**. The following is a list of the changes since the last beta notification. This beta software has undergone limited testing and is being made available as-is. Please review the following list of changes to determine if any are applicable to your needs.

**Fixes & Enhancements:**

• **ICheck Fixes/Enhancements**

- Fixed a problem where ICheck was saving the CSV files for all the jobs in the directory of the first completed job. ICheck will now save the CSV file in the appropriate image directory.
- The ICheck CSV file will now include lines for both the Eclipse Checksum and Blu-ray SHA-1 values. The value type is specified in its own column.
- ICheck will now save and load log files with the extension ".ick". When the "Create Log" option is checked in the Options menu, the .ick log file will be automatically generated with the same naming scheme as the File > Save function. The File > Save function automatically saves the .ick log in the same directory as the DDP image with the same filename as the image directory.

• **Debug threads will not be launched until their first use to speed up load time for DLLs.**

This modification should reduce overhead and improve sluggish behavior when scanning Blu-ray images.

• **Correct M2TS file extent size.**

ImageCopy will now correct M2TS file extent sizes in the BDCMF or AACs1.DAT if they are incorrect. Previously, the EclipseSuite tools would report an error but could not correct the entry because the size attribute is used to find each extent. Now, the tools will rebuild all extent information if any of the size attributes are incorrect.

• **Display complete 32-digit hex value of BDMV ID Disc ID for Blu-ray images.**

Previous version only displayed the first 16 digits. The Disc ID is stored in the BDMV ID file ('\\CERTIFICATE\\id.bdmv') of a Blu-ray image that includes BD-J Applications.

• **Fix type P dual layer processing so it does not prompt the user for a layer.**

Previous versions would prompt the user for which layer to process at the start of a job.

• **DDP File Selection dialog detects and displays CMF images on root directories.**

Previous versions would not identify a CMF image if it was in the root directory of a volume.

• **Enhanced the user interface of the EclipseSuite tools to display the Master ID and Signature on the main program window.**

The EclipseSuite tools will display the Master ID and Signature values of DDP/BDCMF images. These are displayed below the Elapsed Time in the main program window.

• **Change "Bad file checksum" rule from error to abort.**

This error indicates file corruption and should be considered an abort condition. This is to prevent a bad image from being mastered.

- **Fixed a problem with BD-Live analysis where some permission request files included a path in its full name were not being found because of a naming convention discrepancy.**
- **The Royalty report will now log the Signature of the title in the XML log file.**
- **ImageCopy will now always build PAC data when copying from BD-R or BD-RE to hard disk.**

Previous versions of ImageCopy did not create the PAC data files when loading a BD-R/BD-RE to hard disk.

- **Modified XML schema files for BDCMF version 0.97 Type C2 and versions 0.98, 0.985, 0.99 and 1.01 Type C to allow "VID" as an optional element.**
- **Make sure the output BDCMF clip encryption status matches the CPS Unit.**

Previously, if the BDCMF was incorrect, EclipseSuite would not change it - even if the CPI bits in the tp\_extra\_header of the clips were corrected.

- **Fix crash problem when Signature file exists but ImageIntegrity is not enabled.**
- **Fixed a problem where UNC path for Output location was broken.**
- **Fixed the auto save function when the Output location has a trailing "\".**

If the output location included a trailing '\', the log file would not be saved.

- **Changed title of dialog window when browsing for default root directory from "Select Default Output Image Location" to "Select Default Root Directory".**
- **Changed Preference string "Store log file in image directory" to "Save log file in image directory".**
- **Continue to process and fix any location information for Content000.cer and ContentHash000.tbl files.**

The BDCMF.CMF file includes location information for several AACs related files that are part of a BDCMF image. ImageCopy will now correct any discrepancies in the file location information.

- **Correct missing density issues from old BDCMF versions.**

In older BDCMF versions, the BDDensity attribute was used to indicate the size in Gigabytes of the BD image. The numeric value for this attribute included an optional 'G' (example '25G'). The EclipseSuite would ignore this attribute if the 'G' was not included. However, this was valid in early BDCMF specification versions.

- **Add the StartPSN entry to the UD and UCD.DAT BDCMF entries if it is missing from the input BDCMF data.**
- **Prompt user before overwriting existing log file in central directory or target image directory.**
- **Corrected a problem that was incorrectly triggering the errors "Unrecognized HDMV stream" and "Unrecognized HDMV AACs stream" when ALL three of the following conditions were met:**
  - The EclipseSuite application was version Z30 or higher.
  - There was a clip (m2ts file) with more than 16,777,213 sectors that would require 32 or more extents allocated to the file.
  - ImageCopy was performing Verity After Copy right after encryption (Type A to Type B conversion) OR it was copying an encrypted image OR it was copying a Type A image AND no AACs option had been programmed for the dongle OR IA or IV were analyzing a Type A image.
- **Enhance the EclipseSuite tools for better parsing of BD XML files.**

Previous versions were not able to find elements if local namespaces were defined in the XML files.

- **Added XML schema check for BD Permission Request files.**

These files are packed inside the JAR files and allow the BD-Java applications to gain access to the Binding Unit Data Area. The EclipseSuite tools will show warning errors if required elements or attributes are missing, elements not defined in the schema files were included or there are upper/lower case differences.

- **Enhanced BD-J analysis.**

The EclipseSuite tools perform BD-J analysis and several new rules have been added to report BD-J file format/content errors.

- **Added Online content authentication checks:**

Verify file integrity, RSA signatures and format for 'online.crt', 'online.crl', 'online.sig' and 'app.discroot.crt' using several new rules.

- **Detect BD-Live capabilities from disc content and report per BD-J Object.**

- **Added file location validation for target file location in ImageCopy.**

If a user types a file location with a semicolon without an accompanying backslash for example Z:abc, this was causing the image to be copied to the wrong location. This also affected any automatic saving of log files and signature files.

- **Enhanced Save & Load Settings.**

Previous versions of EclipseSuite were limited to only save to a floppy drive. The same limitation occurred when loading settings. This new version will allow users to choose any file location.

- **Added a disable button in the Plug-In Manager to disable individual Plug-Ins.**

The original button has been renamed "Disable All" to disable all Plug-Ins.

- **XML/HTML logs now written onto recordable discs when DDP on disc archiving is selected and XML/HTML log export is enabled.**

- **Changed signature file naming to follow source image folder name instead of temp drive name.**

When archiving an image, ImageCopy copies the image files to a local TEMP folder before writing to the recordable media. Previous versions named the signature file the same as the temp folder it created for the image. Now, the filename will be the same as the source image.

- **Don't show the rule "DVB-GEM Organization ID mismatch" when the file "id.bdmv" has not been included in the image.**

- **Protect the JAR file access code from file format errors.**

- **When no checksum or SHA-1 values are expected show a warning icon instead of an error icon.**

If an image does not include a checksum or SHA-1 value for one of the image files, a warning should be displayed rather than an error. An error is appropriate only if the checksum and/or SHA-1 is included but is incorrect.

- **Do not check the content ID ISAN or report it if the image is not BD Live.**

- **Fix crash when exiting the IC preferences screen, due to uninitialized variable in the BD Live preferences area.**

- **Fix BDCMF 1.01 output when input is Sony BD CMF.**

The m2ts extent sizes were still being recorded in sectors, and only the very last file size was being updated.

- **In BDCMF versions 0.90 - 1.02, always check the m2ts extent sizes in SECTORS.**

During analysis, the extent size will be assumed to be expressed in sectors rather than bytes. If they are incorrect, ImageCopy should automatically fix it in the output.

- **Dongle information from the dongle and eclipse.key will be displayed in the Info | DGL tab and also saved to the Eclipse log files.**

- **Eject icon functionality is now available for both the source and target devices.**

- **All UDF related behaviors are now moved to a new UDF tab.**

- **Show preference settings in the bottom of Info|Preferences tab and in save them in the log files.**

- **Rule files will now only save items which have changed.**

- **We will show the rule "Unable to open file" and abort (default rule behavior) when our tools fail to load BDCMF.CMF or AACSI.DAT file.**

- **Implement ESW file output in IC. If any of the target authoring dongle options are enabled, the BD Live properties screen will be displayed, allowing the user to set options. In addition, after the encryption stage, IC will output an ESW file to the target directory.**
- **Enhanced Royalty report version 1.2 to include several new fields:**
  - "DiscInfo" with a disc "Size";
  - "LayerInfo" with "FirstLSN", "LastLSN", "FirstPSN" and "LastPSN" for each layer;
  - "BDInfo" with "BDCMFType", "BD-Java", "BD-Live", "OrganizationID", "DiscID" and "Region";
  - "CopyProtection" will include "BDPlus" and a new "AACs" element with "ApplicantID" and "ISAN\_ContentID".
- **When analyzing Macrovision on a BD image, report error details in the Additional Info column of the analysis tab.**
- **Show additional error information when we fail to open or to read a BDCMF file.**
- **Show the rule "Unable to open file" with error information when we fail to open UD.DAT for file system checks.**
- **Show additional error information when the UDF analysis fails to open, to read, to write or to update checksum protected sectors.**

**Download Instructions:**

You can download the EclipseSuite 6.0 Beta ZPR1 from the following links:

<ftp://ftp.eclipsedata.com/es60/es60pr1.zip>

Password: pR1es60