



TechFlash Bulletin

ECLIPSE DATA TECHNOLOGIES

To: Eclipse HD & BD Customers
Date: October 23, 2007
Subject: EclipseSuite 6.0 Beta Z5 Release Notice

DESCRIPTION:

This document is to notify all customers running EclipseSuite for the High Definition formats of the availability of EclipseSuite **6.0 Beta Z5**. 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:

- Corrected a problem where an invalid (UDF) string was causing the UDF Analysis to crash the EclipseSuite tools.
- The rule "BD-9" will now be reported only for the BD-9 format. Previously this rule was triggered for all BD formats.
- Implemented additional clip checks to the Hash Table Headers. The Hash Table Headers will now be checked to determine if the clips are listed in ascending order. Otherwise, the error "Content Hash Table error" is triggered.
- Fixed BDCMF.CMF and AAC1.DAT checksum computation. This was previously broken in 6.0 Z2 due to the removal of the CR XML tag.
- ImageCopy will now remove the SHA-1 hash value from the BDCMF.CMF file during the conversion of a Type A to Type B image. This is done because the SHA-1 checksum will no longer be valid once encryption is applied to the UD.DAT file.
- The ICheck application was enhanced to create or verify the SHA-1 value in the BDCMF.CMF file. If the SHA-1 value was previously removed you can use ICheck to recalculate and update the BDCMF.CMF file for plant interchange. You can also perform this calculation and update when signing a BD image. CMU version 1.0 Beta R or later will be required.
- Added support for any Sony BD-ROM drive with model string "BD." Previously only models with the string "BDRW" were supported.
- Implemented preliminary support for the BD9 non-AACS BDCMF format.
- Corrected a problem where the EclipseSuite tools would consume the DVD option counts when running a 3X DVD-ROM job. It should only decrement the counts for the 3X DVD-ROM option.
- ImageCopy now pads the "PartialMKB.bin" file with zero data to a 2048 byte boundary. Encoders other than Eclipse could not handle the true size of the PartialMKB.bin file.
- ImageCopy validates that the Partial MKB is less than the maximum as required by the specification. This check is done so the customer is aware of the problem prior to submitting the CC for signing.
- New HDDVD rule added "Missing Playlist File for Advanced Content" Eclipse has experienced content with playability problems if the Advanced Content Playlist file is missing.
- New HD-DVD rules added "Advanced Content Playlist missing required element", "Advanced Content Playlist missing element" and "Advanced Content Playlist without a valid Title." These

rules were added to enhance our Playlist validation. Playback is highly dependent on the Playlist information.

- New HD-DVD rule added "P-EVOB spans layers" We have found some single P-EVOB specified for dual layer titles. This is a specification violation that will create playback problems for some systems.
- ImageCopy will replace the HD-DVD Title Keys in the Title Key Files when it randomly generates them. For this scenario, the "DiscInfo.xml" file in CMF requires the element "\DiscInformationFile\CopyProtectionInformation\Status\Section" with attribute "Type=Title Key Files" to have the value "PARTIAL".
- Added MPEG Royalty Reporting Option to calculate and log video and audio codec presentation time.
- ImageCopy will now accept single ".FMT" or MKB Order files to be selected before HD-DVD AAC3 encryption process.
- Expanded the Blu-Ray rule "Unencrypted Aligned Unit in encrypted stream" to cover the analysis of Type A images. Previously this rule was being shown during encryption and decryption process only.
- ImageAnalysis can now extract single files or entire directory branches from the UDF image.

NEW RULES:

1. Advanced Content Playlist missing element
2. Advanced Content Playlist missing required element
3. Advanced Content Playlist without a valid Title
4. P-EVOB spans layers
5. Missing Playlist file for Advanced Content

DOWNLOAD INSTRUCTIONS:

This software is available for warranty and contract customers only. Please contact your local Eclipse representative or Eclipse Customer Support if you are interested in purchasing this upgrade.

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