To: Eclipse HD & BD Customers

Date: February 20 , 2008

Subject: EclipseSuite 6.0 Beta Z13 and CMU 1.0 Beta Z

<u>Description:</u>

This document is to notify all customers running EclipseSuite for the High Definition formats of the availability of **EclipseSuite 6.0 Beta Z13** and CMU 1.0 Beta Z. 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.

Due to recent file naming convention changes for Content Certificate Submissions issued by the AACS Licensing authority, Eclipse has updated the CMU utility to handle these new naming conventions. It is recommended that customers using the CMU Utility upgrade to **CMU 1.0 Beta Z**.

<u>Fixes & Enhancements:</u>

- **Added Support for BDCMF Versions 0.980, 0.985 and 0.990 and their schema files.**

- **All BDCMF files are now read and copy correctly if a relative path is specified in "BDCMF.CMF".**
  The BDCMF specifications allows for files to be located in subdirectories relative to the root image directory. Previous versions of EclipseSuite assumed all files would be located in the same directory and did not know how to handle relative paths. This version adds support this.

- **Added Support for Sony BDCMF Schema Files With Binary Data.**
  Although XML schema files should only include alphanumeric characters, schema files created by Sony may sometimes include binary characters. This was previously not supported by the EclipseSuite tools. Support for binary data in Sony's schema files has been added as of this version.

- **Added Support for Schema Process "complexContent" and "extension" Element Types.**
  BDCMF 0.90 schemas defined these elements but were rarely used. Therefore, previous versions of EclipseSuite did not support them. They are now supported in this version.

- **When Processing A BDCMF Type A Image Using BDCMF V0.97 Or Later, Check For Presence Of "RPC-BDCMF.CMF" And Use It Instead.**
  When a "BDCMF.CMF" file Type A is being processed by the EclipseSuite tools and the version is greater than 0.970, the applications check for the presence of a BDCMF file named "RPC-BDCMF.CMF". This file is referenced as Type A with Partial Information included. If such a file is found, it will be loaded instead of the original BDCMF.CMF file. The CMU utility will automatically create this file when signing a Blu-ray image.

- **BDCMF Type A with Partial Information Image Processing**

  When a "BDCMF.CMF" Type A with Partial Information is processed by ImageCopy, the encryption process can now mimic HD-DVD encryption and apply Media Key Blocks creating a Type C2 if the version is "0.970" and Type C if the version is higher (0.980, 0.985 or 0.990). The behavior "Prompt for copy protection keys" works as it does for HD-DVD and allows the user to always get a prompt, or to get a prompt only when the input does not contain an ".FMT" file named "AACS_Keys.bin". The user has the choice to select MKB ORDER files to convert or an already converted ".FMT" file.

- **When a BDCMF file is being modified to represent a different Type, apply the new schema to the document.**
  The BDCMF specifications include an XML schema for every image Type. During analysis of an image, the EclipseSuite tools will make sure that the BDCMF file set conforms to the schema based on the image Type. Previously, when ImageCopy converted an image from one Type to another, it incorrectly applied the original schema rules to the new image Type during the Verify After Copy process. Now, ImageCopy will apply the correct schema rules on the output image Type.

- **Check AACS LA signature in Content Revocation List files for HD-DVD and Blu-ray images.**
  Eclipse validates that the AACS LA signature is legitimate and correctly formatted. If the signature did not come from AACS LA or it was corrupt ES will show the error "AACS LA Signature Verification Error"

- **Include the signature information in the BDCMF process history.**
  The BDCMF specifications include a section in the BDCMF.CMF file keep Process History of a BDCMF image. Every time the image is changed in the premastering process, information is appended in each part of the process.

- **ICheck won't automatically process subdirectories for high definition formats since CMF for BD and HD-DVD can include paths relative to the image root directory.**
  Previously, ICHECK would continue to check subdirectories within an image folder. Since BD and HD images can include files in subdirectories relative to the root directory, ICHECK will no longer check any subdirectory below the root.

- **Processing of Sony CMF images was halting before encryption.**
  When trying to process a Sony CMF image with ImageCopy, the error "Error writing a CMF field" would get triggered and ImageCopy would hang. This occurred in versions Z10 and Z11. This has now been corrected.

- **Allow user to abort early when pre-analyzing HD-DVD Advanced Resources before the full sector process.**

- **Enhanced the HTML export with better formatting. Now all log information (except UDF) is exported.**

Download Instructions:

You can download the EclipseSuite 6.0 Beta Z13 and CMU 1.0 Beta Z from the following links:

EclipseSuite 6.0 Beta Z13

ftp://ftp.eclipsedata.com/es60/es60z13.zip
Extraction Password = ECL9ES60z137

CMU 1.0 Beta Z

ftp://ftp.eclipsedata.com/es60/CMU10Z.zip
Extraction Password = CMU10z9

In order to support these new fixes and enhancements, customers running ImageEncoder and ImageEncoder Scheduler will need to upgrade these programs as well.

IEScheduler 3.0 Beta Z14

ftp://ftp.eclipsedata.com/IEScheduler/ies30z14.zip
 Extraction Password = IES30z148

ImageEncoder 3.0 Beta Z34

ftp://ftp.eclipsedata.com/IEScheduler/iecss30z34.zip
Extraction Password = IE30z348