To: Eclipse HD Customers

Date: November 9, 2007

Subject: ImageAnalysis HD and ImageVerify HD Notice

## **Objective:**

The Purpose of this TechFlash is to report a bug found in ImageAnalysis HD and ImageVerify HD. This bug affects version 6.0 Beta Z6 and earlier.

## **Summary:**

When non-licensed content providers create HD DVD AACS images, the "Title Key Status in the CMF file is set as 'Partial' and no title keys are written in the image. This condition causes ImageAnalysis to incorrectly report the error "Sector Tagged for scrambling with no valid Title Key Pointer". ImageVerify will report the same error if the unencrypted image is used as the source image during verification.

AACS Status: Incomplete, CC: Empty DDP level 3.00 ECMA 167 Volume 3rd Edition HD DVD HD DVD-ROM File System UDF Volume Version 02.50 DVD Advanced Resources status 0PEN DVD Enhanced Video Object status 0PEN DVD HD DVD Video Disc Category 2 DVD HD DVD Video 0 Disc Category 2 DVD Number of Audio Title Sets 0 (Advanced) DVD Number of Video Title Sets 0 (Standard) DVD Number of Video Title Sets 1 (Advanced) DVD Signature 4842.7F32.2DF2	Mode	Location Len	igth Error Description	Additional Info
ECMA 167 Volume   3rd Edition     HD DVD   HD DVD     HD DVD-ROM File System   UDF Volume     UDF Volume   Version 02.50     DVD   Advanced Resources status   OPEN     DVD   Enhanced Video Object status   OPEN     DVD   HD DVD Video   Disc Category 2     DVD   Number of Audio Title Sets   0 (Standard)     DVD   Number of Video Title Sets   1 (Advanced]     DVD   Number of Video Title Sets   1 (Advanced]     DVD   Number of Video Title Sets   1 (Advanced]     DVD   Signature   Expected values not available 'c: VAACSTest     DVD   Signature file not found   Expected values not available 'c: VAACSTest     DVD   Signature file not found   Expected values not available 'c: VAACSTest     DVD   31091h   Sector tagged for scrambling with no valid Title Key Pointer   Zero data for Title Key Pointer is (1)     DVD   31085h   Sector tagged for scrambling with no valid Title Key Pointer   Zero data for Title Key Pointer is (1)     DVD   310A5h   Sector tagged for scrambling with no valid Title Key Pointer   Zero data for Title Key Pointer is (1)     DVD   310				
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## **Recommended Action:**

**ImageAnalysis HD:** If the Title Key Files status is reported in ImageAnalysis as PARTIAL, the "Sector Tagged for scrambling with no valid Title Key Pointer" errors can be ignored and the image can be accepted and can proceed to the AACS encryption process.

**ImageVerify HD:** If the Title Key Files status is reported in ImageVerify as PARTIAL, the "Sector Tagged for scrambling with no valid Title Key Pointer" errors can be ignored and the image can be accepted if no other errors are seen.

ImageVerify work-around:

Comparing to the encrypted image (e.g.: the image on the mastering server) or to the signature file will not trigger the "Sector Tagged for scrambling with no valid Title Key Pointer" error.

**ImageCopy HD:** ImageCopy HD creates the title keys when a PARTIAL image is encrypted with AACS. Therefore, ImageCopy HD eliminates the error condition in the encrypted image (and replica) and the "Sector Tagged for scrambling with no valid Title Key Pointer" is not reported.

A future version of ImageAnalysis HD and ImageVerify HD will correct the problem.