

## Report on JPEG Committee Activities

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The JPEG committee has recently approved a new work item known as JPEG Digital Imaging System Integration (ISO/IEC 29199 - JPEG DI). JPEG DI aims to provide harmonization and integration between a wide range of existing and new image coding schemes, in order to enable the design and delivery of the widest range of imaging applications, across many platforms and technologies. JPEG DI aims to leverage the rich array of tools developed in and around JPEG and JPEG 2000 to support new image compression methods such as JPEG XR. Part 1 of JPEG-DI is a technical report that will discuss use cases and technical issues and solutions which should be met by the range of Standards and profiles defined in JPEG-DI.

Part 2 of JPEG-DI is known as JPEG XR. JPEG XR is a new image coding specification designed explicitly for the next generation of digital cameras and other consumer markets. It is based extensively on the technology introduced by Microsoft in its Windows Media Format proposals, at present known as HD Photo. At the Kobe meeting, the JPEG XR specification (Working Draft) was reviewed and will be balloted for promotion to Committee Draft (CD) status before the 44th WG1 San Francisco meeting, March 31 to April 4, 2008. In addition to JPEG XR itself, the creation of two other new parts of the standard on compliance testing and reference software was approved at the meeting.

JPIP (JPEG-2000 Part 9) Interoperability testing continued at the Kobe meeting with successful participation by several companies and organizations with JPIP implementations. In addition the JPIP Ad Hoc Group drafted a new version of Amendment 2 of JPIP, which defines profiles and classes of compliance that must be met by interoperable clients and servers. The document is being circulated for comments and will be reviewed at the next meeting.

JPEG 2000 Part 11 Wireless, also known as JPWL, has become an International Standard (ISO/IEC 15444-11). JPWL has standardized tools and methods to achieve the efficient transmission of JPEG 2000 imagery over an error-prone wireless system.

Due to an increased interest for compression technologies for floating-point data, the JPEG Committee has issued a call for information on applications and compression technology for floating-point data. Responses will be reviewed at the 44th WG1 San Francisco Meeting, March 31 - April 4, 2008.

