Digital Preservation Interoperability Initiative

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Abstract: In October 2009, the International Organization for Standardization (ISO)/International Electrotechnical Commission (IEC) Joint Technical Committee 1 (JTC 1) reconstituted the Study Group (SG) on Digital Content Management and Protection (SGDCMP) with focuses on long term "digital preservation". One of the SGDCMP 2010 tasks was to organize workshops and symposiums that would help develop a roadmap on long-term digital preservation standardization by identifying requirements, technologies, and best practices. A two-part conference was conducted: The US Workshop (co-hosted with NIST and INCITS at NIST) was the first event focusing on US national needs and best practices. The second event, an international symposium (co-hosted with NIST and ISO/IEC SGDCMP, in Dresden, Germany) gathered different requirements and best practices at the international level. Submissions for both events were then combined as input towards the ISO/IEC SGDCMP for roadmap development and would be then used towards standardizing a digital preservation interoperability framework for effective and reliable access to preserved digital contents between interoperable digital preservation repositories. This talk will present a brief summary from these two events and the direction of the SGDCMP standardization work.

About the author:

Wo Chang is currently serving as manager of the Digital Media Group at National Institute of Standards and Technology (NIST). In these duties Mr. Chang oversees several key projects including digital data archival and preservation, motion image quality, and multimedia standards. In the past, Mr. Chang was the Deputy Chair for the US National Body for MPEG (INCITS L3.1) and chaired several key projects for ISO/IEC SC 29 WG11 (MPEG), including Content-based Search Framework, Multimedia Application Formats, MPEG-7 Profiles and Levels, and co-chaired the ISO/IEC SC 29 WG1 (JPEG) JPEG Search project. Mr. Chang was one of the original members of W3C's SMIL (Synchronization Multimedia Integration Language) Working Group and developed one of the SMIL reference software. Furthermore, Mr. Chang also participated in the Internet Engineering Task Force for the protocols development of Session Initiation Protocol, Real-time Transport Protocol, Real-Time Streaming Protocol, and Resource-Reservation Protocol. Mr. Chang's research interests include digital data preservation, content metadata description, digital file formats, multimedia synchronization, and Internet protocols.