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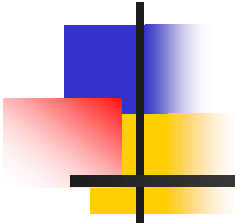
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ISO/IEC JTC1 Study Group on
Digital Content Management & Protection
Summary of Report [JTC 1 N 9775]

Lin Gao, Chair

Linpeng Gao, Secretariat

2009 JTC 1 Plenary

Agenda

- Overview
  - Background
  - Terms of Reference
  - Participation
- 2009 Activities
- Summary of Report to JTC 1
- Recommendations

Background

- Established by Resolution 47 at the 2008 JTC 1 Plenary in Nara with the Mandate to:
    - to understand the current state of standardization and to explore a possible role for JTC 1.
- Leadership
    - Chair, Lin Gao (China)
    - Secretariat, Linpeng Gao (China)
- Documents: http://www.jtc1dcmp.org/
- WIKI:http://wiki.jtc1dcmp.org:8088/DCMPwiki

Terms of Reference

- 1) Provide a definition for Digital Content Management and Protection

- 2) Assess, via an inventory, the current state of standardization in DCMP within JTC 1 and in other SDOs and consortia

- 3) Understand and document market/application segments, user requirements and the challenges to be addressed

- 4) Deliver recommendations to JTC 1 on possible actions to be taken

- 5) Meetings of the group may be via face - to - face or preferably by electronic means

2009 JTC1 Plenary

Participation

- Membership in the Study Group be open to:
  - JTC 1 National Bodies, Liaisons, AROs and PAS submitters
  - JTC 1 SCs
  - Members of ISO and IEC central offices
  - Invited SDOs and consortia that are engaged in standardization in DCMP
  - Invited experts with specific expertise in the field
- Current Participation
  - 11 NBs: Canada, China, Germany, Italy, Japan, Netherlands, New Zealand, Spain, Singapore, US, UK
  - 2 ISO/IEC committees: ISO/IEC JTC1/SC29, IEC TC100
  - 5 Organizations: GS1, DMP, DVB-TM, ETSI, DECE

2009 Activities

- **One Workshop**
  - July 15th in Beijing
  - 7 presentations

- **One Physical Meeting**
  - July 16th in Beijing
  - 39 people representing 7 countries, 1 SC and 2 organisations

- **One teleconference:**
  - Sep 10th
  - 8 people representing 5 countries

Summary of report to JTC1

- Terms of Reference #1: Definitions
  - Digital Content
    - Refers to any digital information which has value to some party
    - Covers numerous types of information, including text information, visual information, audio information, multi-mode information, data residing in a database and related sets of such data.
  - Digital Content Management
    - Describes the life-cycle of digital content, including content creation, recording, distribution, processing, preservation, retrieval, delivery, analysis, evaluation, utilization and destruction.
  - Digital Content Protection
    - Describes the steps taken to ensure that while under DCM, content use permissions are respected and integrity of the content is retained.

Summary of report to JTC1

- Terms of Reference #2: Inventory for DCMP

Internet and Mobile	Physical Media	CA, IPTV, mobile TV	E-Books
Flash Media Rights Manager	CPRM/CPPM	Conax CAS7	Adobe Content Server
RTMPE	AACS	CoreCrypt	Mobipocket DRM
FairPlay	BD+	Irdeto CA	
Fasoo Secure Media	DivX DRM	Latens CAS	
Netsync	CSS	Nagravision	
Marlin	ACP-DVD	VideoGuard	
Windows Media DRM	RipGuard	Encryptonite One	
Zune DRM		VCAS	
Play Ready	**Home networking**	Widevine Cipher	**Games and Software**
OMA	DTCP		ByteShield
Helix DRM	HTCP		ActiveMARK
DeviceWall, Content Wall	ACP-VOD		SecuROM
SDC			

2009 JTC1 Plenary

Summary of report to JTC1

- Terms of Reference #3: Market/Application for DCMP
  - DCMP for Consumer-Oriented Digital Content
    - Digital Television, IP TV, Digital Medium
  - DCMP for Enterprise-Oriented Digital Content
    - E-Publication, Enterprise Content Management, Broadcast and Cable TV
  - DCMP for Institution-Oriented Digital Content
    - Gas and NGOs
  - DCMP for Public Access Digital Content
    - Web-based Information and Databases, Institution-based information and Data Centers, Online Digital Content Services
  - DCMP for Preserved Digital Content
    - Library, Archive and Museum
  - Long-term Preservation Digital Content

Recommendations(ToF #4)

- Recommendation 1

  - Based on its work to date, SG on DCMP recommends that JTC 1 re-constitute the Study Group with more focused terms of reference. Specifically, the SG recommends that its attention be targeted on the important issue known as long term "digital preservation". This term is understood to include the protection and management of both digital data and digital content, including associated metadata.

Recommendations (ToF #4)

- Recommendation 2
  - SG on DCMP recommends that the new terms of reference should include the following:
  - To study the area of long-term digital preservation, understanding this term to include the safeguarding of digital content over an extended period, and the capture, creation, persistent association and management of related metadata, and the impact of digital rights management technologies.
  - To utilize in its study at least the Open Archival Information System (OAIS) reference model defined in ISO 14721:2003 Space data and information transfer systems – Open archival information system -- Reference model.
  - To study possible interoperability models for a preservation interoperable framework (PIF) including a Submission Information Package (SIP), and Dissemination Information Package (DIP) as defined in ISO 14721.

Recommendations (ToF #4)

- To ensure in its study and recommendations that these interoperability models are completely agnostic to the file formats, packaging methods, metadata schemas and metadata binding mechanisms used in the digital data or content being preserved.

- To study and report on the requirements for digital content identification in long term digital preservation and their relation to general digital content identification, in particular cooperating through a liaison with ISO / TC46 / SC9 (Identification and Description).

- To study and report on the creation by JTC 1 or others of technical specifications or guidance that would enable real-world interoperability in digital preservation systems.

- To study and report on the creation by JTC 1 or others of technical specifications or guidance on effective and sustainable management models for operations and maintenance.

- To report to JTC 1 at its 2010 Plenary Meeting.