Next Steps in Interoperability & Certification for Digital Cinema



Michael Karagosian 17 January, 2006



Overview

- What, more work?
- Interoperability
- Certification
- The Open Group

Significant Progress

- SMPTE DC28
- DCI System Specification v1.0
- NATO System Requirements (forthcoming)

Documents ≠ Interoperability

- MXF Interop experience
- Interpretations vary
- Overlooked details
- Unexpected behaviors
- Best practices to-be-determined

This calls for an Open Interoperability effort

Work to be Done

- Full implementation of SMPTE Packaging
 - Composition Playlist
 - MXF track file wrapping
 - JPEG2000 compression
 - AES encryption
 - Track files
- Full Key Delivery Message implementation
- Secure log implementation
- Certificate management tools
- Interoperability between theatre systems and delivery systems

Collaborative Environment

- Ability to involve all interested parties worldwide
 - Manufacturers
 - Studios
 - Exhibitors
- Tested legal framework
 - Lawyers not required at meetings
- Neutral oversight

These requirements are the foundation of *THE OPEN GROUP*

Why Certification

- Insurance policy for manufacturers
 - Protects R&D investments by setting minimum performance levels in marketplace for competitors
- Insurance policy for exhibitors
 - Ensures that products purchased meet the requirements of business partners
- Insurance policy for studios
 - Assurance that products entering the market meet the specification

Certification Requirements

- Robust process
 - "Closed loop" operation (monitored by central organization)
 - Well-defined specification
 - Self-test tools available as possible
 - Specification warranty provided by the manufacturer
 - Worldwide enforcement of trademark usage
- Ability to involve all interested parties worldwide
 - Manufacturers
 - Studios
 - Exhibitors
- Tested legal framework

DC CERTIFIED



Making standards work[™]

- Core business is IT certification
 - Non-profit organization
 - Tested legal framework for interoperability and certification
 - Owner and manager of the UNIX® trademark
 - "Services to Consortia" program extends business model to other industries, and can extend to digital cinema
- Meets all requirements for digital cinema interoperability
- Meets all requirements for digital cinema certification
- Organization of peers
 - D-Cinema Consortium will be operated by a Steering Committee made up of Consortium members



Membership Fees, Entitlements, Policies and Procedures:

http://www.opengroup.org/d-cinema/

(private website - no public links until organization fully formed)

Summary

- Interoperability testing could begin soon
- Certification process remains to be defined
- The Open Group can support both

Thank you

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