DC28.5 Study Group

On

Transport & Delivery Systems

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DC28.5 Study Group
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Transport & Delivery Systems

Purpose:

1. Receive content files from Compression/Encryption processes

2. Provide for a variety of transport mechanisms
   - Physical Media
   - Satellite
   - Terrestrial Networks

3. Provide common interfaces at input and output transport link
DC28.5 Study Group
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- Group held 10 monthly meetings since January 2000
- Total membership – 77
- Co Chairs – Chuck Garsha, Dick Stumpf
- Secretary – Ira Lichtman
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Study Group Investigated:

- Current practice in film and digital cinema distribution
- Suitable digital transport methods, physical media, terrestrial & satellite
- Transport link input and output gateway coordination
- Ways to provide common interface at input and output of transport link
Key Findings

- Digital cinema demands on transport are unique in terms of
  - Payload capacity
  - Multicast requirement
  - Time sensitivity
  - Transparency/robustness

- Adhere to OSI Model to meet industry demands for openness & interoperability

- Provide for management of conditional access, transport configuration & management data
Key Findings

- A conversion facility or “Gateway” is recommended at input and output of the transport link
  - Conform content, ancillary & supervisory data to range of transports links
  - Perform transcoding and multiplexing to conform to needs of various types of links
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Diagram:
- Management
- Link
- I/O
- Transport Gateway System
- Physical Media Interface
- Interfaces 101, 119, 120, 122
Key Findings

- The need was defined for a Packaging Working Group to:
  - Recommend a unified approach to organizing and cross-referencing the various types on content, ancillary and management data
  - Make recommendations on structure of wrapper or container for DC distribution
  - Form Working Group to standardize interfaces between Digital Cinema Packaging, Transport & Theater Systems