



Movies

**Engineering Node
Standards**

August 13, 2007



Outline



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Background



- At the Nov. 2006 Management Council meeting, in response to an MC directive, a presentation was given on the issues involved in coming up with a standard for archiving movies
- In Jan. 2007, a working group was established to develop two SCRs, one for archiving movies as documents, and the other for archiving movies as data products.
- As of the beginning of May 2007, the SCRs were on hold, awaiting drivers and interested parties.
- In June 2007, the SCRs were revived.
- In July / August 2007, the working group was re-established, with additional membership.



Challenges



- Need to establish criteria to determine when a movie is a data product versus when it is a document or an “extra”
- Need to determine how to handle “flat ASCII text” requirement for documents
- Need to determine requirements for movie format
 - frame rate, sound, resolution, lossy vs. lossless, display support
- Need to develop criteria for what constitutes an acceptable format for archiving: (Is this a larger problem?)
 - documentation
 - data products
- Need to determine labeling requirements for new movie object
 - what information needs to be captured?



Goals



- **For current users**
 - make sure movies are easy to display with readily available software
- **For future users**
 - maximize chances that data will still be accessible and can be converted to then current formats
- **For data providers**
 - select commonly used formats with freely available support software for both encoding and decoding
 - establish label requirements that make sense and can be produced by an automated ground data system
- **Maximize quality of data and minimize storage requirements**



Plan



- Survey nodes, missions, and industry for requirements and for formats in common use; develop criteria for classifying individual movies as data products vs. documents (or “extras”) (Sep - Oct 2007)
- Submit “movies as documents” SCR to Technical Group (Nov 2007)
- Submit “movies as documents” SCR to MC (Dec 2007)
- Develop criteria for formats suitable for archiving; review formats for suitability for archiving; develop labeling requirements (Jan - Apr 2008)
- Submit “movies as data” SCR to TG (May 2008)
- Submit “movies as data” SCR to MC (summer 2008)



Working Group



- Elizabeth Rye (lead)
- Steve Adams
- Mike Cayan
- Patty Garcia
- Lyle Huber
- Steve Hughes
- Myche McAuley
- Anne Raugh
- Dick Simpson
- Shigeru Suzuki / Chris Leung / Eric DeJong