

**INTERNATIONAL ORGANISATION FOR STANDARDISATION  
 ORGANISATION INTERNATIONALE DE NORMALISATION  
 ISO/IEC JTC1/SC29/WG11  
 CODING OF MOVING PICTURES AND AUDIO**

**ISO/IEC JTC1/SC29/WG11 N1833**

**October 1997**

**Source:** Leonardo Chiariglione – Convenor  
**Title:** Resolutions of 41st WG11 meeting  
**Status:**

- 1. WG11 approves the reports of the Bristol and Stockholm meetings**
- 2. WG11 approves the reports from the Requirements, Delivery, Systems, Video, Audio, SNHC, Test, Implementation, Liaison and HoD.**
- 3. Subgroup recommendations**
  - 3.1. The Requirements group recommends**

**3.1.1. to approve the following documents :**

<b>Preliminary Requirements for MPEG-2 Advanced Layered Coding for High Resolution Video</b>	<b>N1842</b>
<b>MPEG-4 Requirements Document v.5</b>	<b>N1886</b>
<b>MPEG-4 Profile Requirements Document v.5</b>	<b>N1899</b>
<b>MPEG-4 Applications Document v.2</b>	<b>N1907</b>
<b>Decisions on MPEG-4 Profiling</b>	<b>N1908</b>
<b>MPEG-4 Version 1 Overview</b>	<b>N1909</b>
<b>MPEG-4 Version 2 Overview</b>	<b>N1914</b>
<b>Initial Requirements for information to be carried on a back channel</b>	<b>N1917</b>
<b>Managing Intellectual Property Identification and Protection within MPEG-4</b>	<b>N1918</b>
<b>Call for Proposals for an MPEG-4 Intermedia Format</b>	<b>N1919</b>
<b>MPEG-7 Context and Objectives v.5</b>	<b>N1920</b>
<b>MPEG-7 Requirements Document v.3</b>	<b>N1921</b>
<b>MPEG-7 Applications Document v.2</b>	<b>N1922</b>
<b>MPEG-7 Preliminary Draft Call for Proposals</b>	<b>N1923</b>
<b>Preliminary Requirements for AAVS format</b>	<b>N1933</b>
<b>Response to French National Body Comment concerning OCI development</b>	<b>N1956</b>
<b>Response to the UK National Body on MPEG-7</b>	<b>N1958</b>

<b>CD of 14496-1 (MPEG-4 Systems)</b>	<b>N1901</b>
<b>CD of 14496-2 (MPEG-4 Visual)</b>	<b>N1902</b>
<b>CD of 14496-3 (MPEG-4 Audio)</b>	<b>N1903</b>
<b>CD of 14496-6 (DMIF)</b>	<b>N1906</b>
<b>Overview of the available MPEG-4 tools</b>	<b>N1974</b>

- 3.1.2.** that an ‘Intermedia format’ be developed for inclusion in MPEG-4 version 2, following the requirements that are now included in the MPEG-4 Requirements Document, and using the results of the Call for Proposal.
- 3.1.3.** considering the Requirements for the Main Video Object Profile, and having heard concerns from delegates wishing to build MPEG-4 compliant products, not to define a Main Video Object Profile for MPEG-4 Version 1 because Gray Scale Shape cannot be supported in this Object Profile.
- 3.1.4.** concluding that it is unclear whether some needs for gray scale (alpha) shape coding can also be met by the currently available tools in the Core Visual Object Profile (with uniform transparency) and the Systems part of the MPEG-4 Standard (with composition tools), invites National Bodies to comment on this aspect of the Visual CD.
- 3.1.5.** WG11 encourage MPEG members with interest and technology to provide a contribution document, preferably with demo, to the next WG11 meeting to show evidence of the advanced performance of the new layered coding technology. WG11 will review the contributions and demos of the advanced layered coding technology at the next MPEG meeting to justify whether an extension of MPEG-2 should be created;
- 3.1.6.** to continue investigating which requirements exist for information to be carried on a back channel, and asks WG11 members to bring their requirements to the 42<sup>nd</sup> meeting.
- 3.1.7.** to give the highest priority to the definition of Composition Profiles and Levels, so that conformance points for MPEG-4 decoders can be specified, and urgently requests companies that intend to implement MPEG-4 technology to bring their requirements, and potential solutions with regard to these conformance points to WG11
- 3.1.8.** that National Bodies carefully review the ‘Initial thoughts on SNHC profiling and levelling, and put forward requests for MPEG-4 SNHC Visual Object Profiles in their review of the Visual CD
- 3.1.9.** to establish the following AdHoc groups :

<b>AHG on MPEG-2 Advanced Layer Coding for high resolution Video</b>	<b>SJ Huang</b>	<b>N1841</b>
<b>AHG on MPEG-7 Requirements</b>	<b>Ibrahim Sezan</b>	<b>N1894</b>
<b>AHG on other MM Metadata schemes</b>	<b>Rémi Ronfard</b>	<b>N1895</b>
<b>AHG on MPEG-4 Requirements</b>	<b>Rob Koenen</b>	<b>N1896</b>
<b>Ad Hoc Group on content-related IPR</b>	<b>Niels Rump</b>	<b>N1897</b>
<b>AHG on Version Management in MPEG-4</b>	<b>Jae-Seob Shin</b>	<b>N1898</b>

**3.1.10. to make publicly available the following documents :**

<b>MPEG-4 Requirements Document v.5</b>	<b>N1886</b>
<b>MPEG-4 Applications Document v.2</b>	<b>N1907</b>
<b>Decisions on MPEG-4 Profiling</b>	<b>N1908</b>
<b>MPEG-4 Version 1 Overview</b>	<b>N1909</b>
<b>MPEG-4 Version 2 Overview</b>	<b>N1914</b>
<b>Managing Intellectual Property Identification and Protection within MPEG-4</b>	<b>N1918</b>
<b>Call for Proposals for an MPEG-4 Intermedia Format</b>	<b>N1919</b>
<b>MPEG-7 Context and Objectives v.5</b>	<b>N1920</b>
<b>MPEG-7 Requirements Document v.3</b>	<b>N1921</b>
<b>MPEG-7 Applications Document v.2</b>	<b>N1922</b>

**3.2. The Delivery group recommends**

**3.2.1. to approve the following documents**

<b>DSM-CC Conformance CD</b>	<b>N1900</b>
<b>DMIF Version 1 CD</b>	<b>N1906</b>
<b>DMIF Version 2 WD</b>	<b>N1916</b>

**3.2.2. to make publicly available the following documents:**

<b>DSM-CC Conformance CD</b>	<b>N1900</b>
<b>DMIF Version 1 CD</b>	<b>N1906</b>

**3.2.3. to establish the following AdHoc groups:**

<b>DMIF Version 1 Editorial AHG</b>	<b>N1893</b>
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**3.3. The Systems group recommends**

**3.3.1. to approve the following documents**

<b>Systems CD 0.1</b>	<b>N1901</b>
<b>Systems edit list for CD Editors</b>	<b>N1938</b>
<b>Proposed Amendment to 14496-1 (MPEG-4 Systems)</b>	<b>N1910</b>
<b>Systems Overview of AAVS Format</b>	<b>N1933</b>
<b>Systems ver 2 WD 0.0.</b>	<b>N1911</b>
<b>Systems Experiments</b>	<b>N1934</b>
<b>Systems Version 1.0 Software Implementation Workplan</b>	<b>N1935</b>
<b>MPEG-2 and MPEG-4 Systems Frequently Asked Questions</b>	<b>N1936</b>

**3.3.2. The Systems sub-group wants to commend the group of people who have worked incredibly hard in the last months and made it possible to produce the CD in this meeting, with particular thanks to : Alexandros Eleftheriadis, Carsten Herpel, Ganesh Rajan, Jean-Claude Dufourd, Julien Signès, Liam Ward, Olivier Avaro, Phil Chou, Stefano Battista, Yuval Fisher, Zvi Lifshitz**

**3.3.3. to establish the following AdHoc groups:**

<b>AHG on Systems Specifications Editing</b>	<b>N1924</b>
<b>AHG on Systems Elementary Streams Management</b>	<b>N1925</b>
<b>AHG on BIFS Scene Description</b>	<b>N1926</b>
<b>AHG on AAVS Specification</b>	<b>N1927</b>
<b>AHG on Systems Version 1.0 Software Implementation</b>	<b>N1928</b>
<b>AHG on Systems Version 2.0 Software Implementation (AAVS)</b>	<b>N1929</b>
<b>AHG on Systems Conformance and Bitstreams Exchange</b>	<b>N1930</b>
<b>AHG on Representation of Time and Decoder Configuration</b>	<b>N1931</b>
<b>AHG on Systems User to User interaction</b>	<b>N1932</b>

3.3.4. to make publicly available the following documents :

<b>Systems CD 0.1</b>	<b>N1901</b>
<b>Overview of AAVS Format</b>	<b>N1933</b>
<b>Systems ver 2 WD 0.0</b>	<b>N1911</b>
<b>Systems Frequently Asked Question</b>	<b>N1936</b>

### 3.4. The Video group recommends

3.4.1. the approval of the following documents :

<b>Text of ISO/IEC 14496-2 Visual Committee Draft</b>	<b>1902</b>
<b>Text of ISO/IEC 14496-4 Conformance working draft V.1.0</b>	<b>1904</b>
<b>Text of ISO/IEC 14496-2 video verification model V.9.0</b>	<b>1869</b>
<b>Text of ISO/IEC 14496-2 visual working draft Version 2 Rev.1.0</b>	<b>1870</b>
<b>Description of core experiments on shape coding in MPEG-4 video</b>	<b>1871</b>
<b>Description of core experiments on region-oriented texture coding in MPEG-4 video</b>	<b>1872</b>
<b>Description of core experiments on error resilience in MPEG-4 video</b>	<b>1873</b>
<b>Description of core experiments on multifunctional coding aspects in MPEG-4 video</b>	<b>1874</b>
<b>Description of core experiments on coding efficiency in MPEG-4 video</b>	<b>1875</b>
<b>Response to UK National Body Comments on MPEG-4 video coding issues</b>	<b>1967</b>

3.4.2. to establish the following ad-hoc groups :

<b>Ad-hoc group on core experiments on coding of arbitrarily shaped objects in MPEG-4 video</b>	<b>Ostermann</b>	<b>1877</b>
<b>Ad-hoc group on core experiments on error resilience in MPEG-4 video</b>	<b>Brailean</b>	<b>1878</b>
<b>Ad-hoc group on core experiments on multifunctional coding in MPEG-4 video</b>	<b>Puri</b>	<b>1879</b>
<b>Ad-hoc group on core experiments on coding efficiency in MPEG-4 video</b>	<b>Tan</b>	<b>1880</b>
<b>Ad-hoc group on editing the documents of the MPEG-4 video verification model and the MPEG-4 visual working draft and CD Version 1</b>	<b>Ebrahimi, Puri, Horne</b>	<b>1881</b>
<b>Ad-hoc group on MPEG-2 advanced layered coding for high resolution video</b>	<b>Huang</b>	<b>1841</b>
<b>Ad-hoc group on MPEG-4 video encoder optimization</b>	<b>Chiang &amp; Sun</b>	<b>1882</b>
<b>Ad-hoc group on MPEG-4 texture coding</b>	<b>Sodagar</b>	<b>1883</b>

<b>Ad-hoc group on MPEG-4 Random Access Coding</b>	<b>Wollborn</b>	<b>1884</b>

**3.4.3. that the following documents are made publicly available :**

<b>Text of ISO/IEC 14496-2 Visual Committee Draft</b>	<b>1902</b>
<b>Text of ISO/IEC 14496-2 Conformance working draft V.1.0</b>	<b>1904</b>
<b>Text of ISO/IEC 14496-2 video verification model V.9.0</b>	<b>1869</b>
<b>Text of ISO/IEC 14496-2 visual working draft Version 2 Rev.1.0</b>	<b>1870</b>
<b>Description of core experiments on shape coding in MPEG-4 video</b>	<b>1871</b>
<b>Description of core experiments on region-oriented texture coding in MPEG-4 video</b>	<b>1872</b>
<b>Description of core experiments on error resilience in MPEG-4 video</b>	<b>1873</b>
<b>Description of core experiments on multifunctional coding aspects in MPEG-4 video</b>	<b>1874</b>
<b>Description of core experiments on coding efficiency in MPEG-4 video</b>	<b>1875</b>

**3.5. The Audio group recommends**

**3.5.1. to approve the following documents :**

<b>Disposition of comments to 13818-4/FPDAM 1</b>	<b>N1968</b>
<b>Conformance 13818-4/PDAM 1 (covering 13818-7 AAC)</b>	<b>N1866</b>
<b>Disposition of comments to 13818-5/FPDAM 1</b>	<b>N1969</b>
<b>Technical Report 13818-5/FPDAM 1 (covering both 13818-3 Second Edition and 13818-7 AAC)</b>	<b>N1867</b>
<b>The study of the text of Systems 13818-1/PDAM 5</b>	<b>N1868</b>
<b>Text of MPEG-2 AAC 13818-7 Draft Technical Corrigendum 1</b>	<b>N1843</b>
<b>Workplan for AAC conformance and technical report</b>	<b>N1844</b>
<b>Revised specification of MPEG-2 AAC stereo verification tests</b>	<b>N1845</b>
<b>Report of status of MPEG-4 Audio core experiments</b>	<b>N1846</b>
<b>Text for MPEG-4 Audio Committee Draft 14496-3</b>	<b>N1903</b>
<b>Text for MPEG-4 ISO/IEC14496 amendment proposal</b>	<b>N1910</b>
<b>MPEG-4 Audio Conformance Testing Working Draft 14496-4</b>	<b>N1847</b>
<b>MPEG-4 Reference Software Committee Draft 14496-5</b>	<b>N1905</b>
<b>Text for MPEG-4 Reference Software 14496-5/PDAM 1</b>	<b>N1915</b>
<b>Proposed method to assess the audio quality of low bitrate audio coders</b>	<b>N1848</b>
<b>Proposal for MPEG-4 verification tests</b>	<b>N1849</b>
<b>MPEG-4 Audio error resilience workplan</b>	<b>N1850</b>
<b>MPEG-4 Requirements</b>	<b>N1899</b>
<b>Decisions on MPEG-4 Profiles</b>	<b>N1908</b>
<b>MPEG-4 Overview for Version 1</b>	<b>N1909</b>
<b>MPEG-4 Overview for Version 2</b>	<b>N1914</b>
<b>Proposals for audio applications using an MPEG-4 backchannel</b>	<b>N1973</b>
<b>Information on MPEG-4 Audio systems issues</b>	<b>N1851</b>
<b>Criteria for evaluation of MPEG-4 Structured Audio</b>	<b>N1852</b>
<b>MPEG-4 Audio bitstream exchange summary</b>	<b>N1853</b>

<b>MPEG Audio FAQs version 5</b>	<b>N1854</b>
<b>Proposals for the MPEG Audio web site content</b>	<b>N1855</b>
<b>MPEG-4 Audio: comparison of AAC and VQ tools</b>	<b>N1966</b>

- 3.5.2.** that the process of fast-track verification tests be applied in an attempt to provide evidence to NB to help them decide how to reduce as much as possible, subject to performance, the number of MPEG-4 Audio tools. The plan is to report the results of the first experiments, a comparison of twin VQ and AAC functionalities, at the San Jose meeting. Every effort will be made to adopt the principle of ‘one tool for one function’ in order to simplify MPEG-4 Audio wherever possible.
- 3.5.3.** that MMA be thanked for their enthusiastic collaboration in the work of WG11, which will undoubtedly be of service to the music and multimedia industries variously represented by MPEG and the MMA. WG11 invites the continuing participation of MMA representatives in its standardisation activities with regard to ISO 14496-3 subpart 5. In particular, audio synthesis experts from the MMA are invited to participate in the MPEG Ad-Hoc Group on Structured Audio, particularly with regard to conducting a detailed technical comparison of the CD MPEG-4 method for Sample Bank Format description with the MMA DLS method.
- 3.5.4.** that NTT DoCoMo be thanked for their offer of error-event-generation software to be used in the MPEG-4 Audio error resilience core experiments.
- 3.5.5.** that Mr. Eric Scheirer and Mr. Young Lee be nominated as additional editors for 14496-3 CD
- 3.5.6.** to establish the following Ad-hoc groups :

<b>Ad-hoc Group on MPEG-2 AAC Conformance and Technical Report</b>	<b>Coleman/Thom/Lueck</b>	<b>N1856</b>
<b>Ad-Hoc Group on MPEG-2 AAC stereo verification tests</b>	<b>S.W.Kim/Contin</b>	<b>N1857</b>
<b>Ad-Hoc Group on MPEG-4 Audio CD and Reference Software CD progression</b>	<b>Grill/Purnhagen</b>	<b>N1858</b>
<b>Ad-Hoc Group on MPEG-4 Structured Audio developments</b>	<b>Scheirer</b>	<b>N1859</b>
<b>Ad-Hoc Group on MPEG-4 Audio Verification tests</b>	<b>Edler/Contin</b>	<b>N1860</b>
<b>Ad-Hoc group on MPEG Audio web site</b>	<b>Thom/Purnhagen</b>	<b>N1861</b>
<b>Ad-hoc group on Audio/Systems issues</b>	<b>Teichmann/Herpel</b>	<b>N1862</b>
<b>Ad-hoc group on MPEG-4 Audio error resilience</b>	<b>Dietz/Miki</b>	<b>N1863</b>
<b>Ad-hoc group on MPEG-4 Conformance</b>	<b>Vaananen/Rault</b>	<b>N1864</b>
<b>Ad-hoc group on MPEG-4 core experiments for Version 2</b>	<b>Brandenburg/Moriya</b>	<b>N1865</b>
<b>Ad-hoc group on MPEG-4 tool complexity</b>	<b>Spille, Fellows</b>	<b>N1885</b>

- 3.5.7.** to make publicly available the following documents :

<b>MPEG-4 Overview</b>	<b>N1909</b>
<b>MPEG Audio FAQs version 5</b>	<b>N1854</b>

<b>MPEG-4 Audio Committee Draft</b>	<b>N1903</b>
<b>MPEG-4 Reference Software CD</b>	<b>N1905</b>

**3.6. The SNHC group recommends**

**3.6.1. to approve the following documents :**

<b>Systems, Visual and Audio Committee Drafts with public release following a period of 3 weeks for editorial work</b>	<b>N 1901 N 1902 N 1903</b>
<b>SNHC VM 6.0 within a period of 2 weeks for editorial work</b>	<b>N 1891</b>
<b>MPEG-4 Version 2 SNHC Work Plan</b>	<b>N 1892</b>
<b>Core Experiments on Face and Body Animation</b>	<b>N 1889</b>
<b>Core Experiments on 3D Model Coding</b>	<b>N 1890</b>
<b>Initial thoughts on SNHC Visual Object Profiling and Levels</b>	<b>N 1972</b>

**3.6.2. to establish the following AdHoc groups :**

<b>on 3D model coding</b>	<b>N1888</b>
<b>on face and body animation</b>	<b>N1887</b>
<b>on SNHC VM editing</b>	<b>N1937</b>

**3.6.3. to make publicly available the following documents :**

<b>SNHC VM 6.0</b>	<b>N1891</b>
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**3.7. The Test group recommends**

**3.7.1. to approve the following documents :**

<b>Specification of MPEG-2 AAC stereo verification tests</b>	<b>N1845</b>
<b>MPEG-4 Audio verification test methodology</b>	<b>N1848</b>
<b>Proposal for MPEG-4 audio verification test</b>	<b>N1849</b>
<b>Updated workplan for verification tests on video error robustness</b>	<b>N1960</b>
<b>Workplan for pre-evaluation of MPEG-4 video content-based coding verification test</b>	<b>N1961</b>
<b>Global workplan for MPEG-4 verification tests</b>	<b>N1971</b>

**3.7.2. to establish the following AdHoc groups :**

<b>Ad-hoc Group on MPEG-4 Audio Verification tests</b>	<b>Edler/Contin</b>	<b>N1860</b>
<b>Ad-hoc Group on MPEG-2 AAC stereo verification tests</b>	<b>S. W. Kim</b>	<b>N1857</b>
<b>Ad-hoc Group on MPEG-4 Video Verification tests</b>	<b>T. Miki/Boon</b>	<b>N1962</b>

**3.8. The Implementation Studies group recommends**

**3.8.1. the approval of the following document:**

<b>Decoder Qos Conformance Levels</b>	<b>N1876</b>
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**3.8.2. the syntax of CGD in the MPEG-4 Visual CD**

**3.8.3. to establish the following AdHoc groups :**

<b>AHG on Computational Graceful Degradation (CGD)</b>	<b>N1963</b>
<b>AHG on Core experiment on Binary Shape complexity in Simple Profile</b>	<b>N1964</b>
<b>AHG on Decoder QoS</b>	<b>N1965</b>

**3.9. The Liaison group recommends**

**3.9.1. the approval of the following liaison documents:**

<b>Liaison statement to FIAPF regarding MPEG-4 copyright information</b>	<b>N1939</b>
<b>Liaison statement to MMA regarding future liaison and collaboration in the area of structured audio.</b>	<b>N1943</b>
<b>Liaison statement to IETF on their interest in DMIF.</b>	<b>N1942</b>
<b>Liaison statement to CEN/ISSS regarding collaboration on MPEG-7 issues.</b>	<b>N1957</b>
<b>Liaison statement to ITU-T SG 9 on OCI</b>	<b>N1941</b>
<b>Liaison statement to TIA announcing MPEG-4 video error resilience tests.</b>	<b>N1950</b>
<b>Liaison statement to ETSI announcing MPEG-4 video error resilience tests.</b>	<b>N1949</b>
<b>Liaison statement to ARIB announcing MPEG-4 video error resilience tests.</b>	<b>N1948</b>
<b>Liaison statement to SC24/VRMLC regarding common work.</b>	<b>N1947</b>
<b>Liaison statement to SG16 and ISO/IEC MPEG Cooperation on DMIF with H.310 and H.323 regarding future collaboration on DMIF.</b>	<b>N1946</b>
<b>Liaison statement to EBU B/CASE regarding MPEG-4 audio codec tests.</b>	<b>N1945</b>
<b>Liaison statement to ISO TC46/SC9/WG1 regarding MPEG-4 copyright information</b>	<b>N1959</b>

**3.9.2. the approval of the following response to the National Bodies**

<b>Response to the UK National Body concerning MPEG-7</b>	<b>N1958</b>
<b>Response to the UK National Body concerning MPEG-4 audio</b>	<b>N1955</b>
<b>Response to the UK National Body regarding MPEG-4 video</b>	<b>N1967</b>
<b>Response to the French National Body concerning OCI</b>	<b>N1956</b>
<b>Response to the German National Body</b>	<b>N1954</b>
<b>Response to the Portuguese National Body regarding MPEG-4 versioning</b>	<b>N1951</b>
<b>Response to the United States National Body regarding Amendment to 11172-2</b>	<b>N1953</b>
<b>Response to the Korean National Body regarding MPEG-4 versioning</b>	<b>N1952</b>

**3.9.3. the acceptance of the following liaisons**

<b>Liaison A with FIAPF</b>	<b>N1940</b>
<b>Liaison A with MMA</b>	<b>N1944</b>



### **3.10. The HoD group**

- 3.10.1. are pleased to endorse the progression of MPEG-4 to CD.**
- 3.10.2. recommends acceptance of WG11 N1839 - guidelines to WG11 meeting hosts**
- 3.10.3. notes with pleasure the recent collaboration with SC24 VRML and are happy to see the common area where collaboration, just initiated, can be furthered. The HoD recommends that technical collaboration takes place in the following way. WG11 and VRML/SC24 will set email reflectors where technical work will be done jointly, by correspondence. If relevant WG11 Ad-hoc Groups decide to meet, WG11 will invite VRML and SC24 experts to join those meetings. WG11 will review technical progress of the collaboration at WG11 meetings.**
- 3.10.4. recommends approval of the meeting plan including**
  - the 42nd meeting in San Jose over the period 2 to 6 February 1998 and acceptance of a meeting fee of approximately 350USD**
  - the 43rd meeting in Tokyo over the period 16 to 20 March 1998 and acceptance of a meeting fee of approximately 35,000JPY (300USD)**
  - the 45th meeting in Princeton, USA over the period 12-16 October 1998**
  - the 46th meeting in Eilat over the period 07 to 11 December 1998.**
  - the 47th meeting in Korea over the period 15 to 19 March 1999 and acceptance of a meeting fee of approximately 300 USD.**

- 4. WG11 approves CD 13818-10 (WG11 N1900).**
- 5. WG11 approves the Disposition of Comments of 13818-4 PDAM 1 (WG11 N1968) and the text of 13818-4 FPAMD 1 (WG11 N1866) and requests the Convenor to forward the documents to the SC29 Secretariat for further processing.**
- 6. WG11 approves the Disposition of Comments of 13818-5 PDAM 1 (WG11 N1969) and the text of 13818-5 FPAMD 1 (WG11 N1867) and requests the Convenor to forward the documents to the SC29 Secretariat for further processing.**
- 7. WG11 approves the text of 13818-7/DCOR 1 (WG11 N1843) and requests the Convenor to forward the documents to the SC29 Secretariat for further processing**
- 8. WG11 approves the MPEG-2 workplan**

Part	Title	WD	CD PDAM PDTR	PCD FPDAM FPDTR	DIS DAM DTR DCOR	IS AMD TR COR
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10	Conformance testing extensions - DSM-CC			98/03	98/12	99/02
1/Amd 5	Systems-related table entries for AAC				98/02	98/04
4/Cor 1						98/02
4/Amd 1	AAC Conformance Testing				98/03	98/05
5/Amd 1	Revised MPEG-2 Simulation Software				98/03	98/05
7/Cor 1					97/10	98/03

9. **WG11 approves the MPEG-4 Applications document (WG11 N1907).**

10. **WG11 approves the MPEG-4 Requirements document (WG11 N1886).**

11. **WG11 approves**

<b>MPEG-4 Systems ver. 1.0 CD</b>	<b>WG11 N1901</b>
<b>MPEG-4 Visual ver. 1.0 CD</b>	<b>WG11 N1902</b>
<b>MPEG-4 Audio ver. 1.0 CD</b>	<b>WG11 N1903</b>
<b>MPEG-4 Reference Software ver. 1.0 CD</b>	<b>WG11 N1905</b>
<b>DMIF ver. 1.0 CD</b>	<b>WG11 N1906</b>

**The final drafts will be sent to the SC29 Secretariat on 97/11/21**

12. **WG11 is aware of the keen interest of many technical and business communities in its MPEG-4 standard. As MPEG-4 has now reached CD level, WG11 understands that the CD can be made freely accessible for consultative purpose. To achieve wider understanding, solicit further comments and promote its acceptance WG11 requests that the text of MPEG-4 be made available on the WWW at all stages after CD. The Convenor is asked to forward this request to the SC29 Secretariat for further processing.**

13. **WG11 would like to thank all members who have enthusiastically responded to its call to donate to ISO software implementing the MPEG specifications. Thanks to MoMuSys for their recent donation of the Video encoder software.**

14. **In response to recommendation 5 of the “JTC1 review of recommendations from the SWG GIIP” (JTC1 N5014) encouraging participants in the standards development process, where feasible, to conduct interoperability demonstrations by pilot implementations simultaneously with the development of the staged deliverables, WG11 requests National Bodies and/or its members to make known their plans to conduct interoperability demonstrations of MPEG-4 ver. 1.0.**

15. **WG11 approves the MPEG-4 verification test plan (WG11 N1971)**
16. **WG11 requests companies who believe they hold rights on patents that are necessary to implement MPEG-4 parts 1-2-3-5-6 to deliver a statements on company letterhead of compliance with ISO policy concerning use of patented items in International Standards. The patent statement can take a form similar to the statement given below:**  
*<Company name> is pleased that the standardisation in relation to “Very low bitrate audio-visual coding” (known as MPEG-4) has reached Committee Draft level as documents ISO/IEC JTC1/SC29/WG11 N1901, N1902, N1903, N1905, N1906.*  
*<Company name> hereby declares that it is prepared to license its patents, both granted and pending, which are necessary to manufacture, use, and sell implementations of the proposed MPEG-4 Systems, Visual, Audio, Reference Software and DMIF standards or combinations thereof.*  
*<Company name> hereby also declares that it is aware of the rules governing inclusion of patented items in international standards, as described by Section 5.7, part 2 of the ISO/IEC Directives, and in particular that it is willing to grant a license to an unlimited number of applicants throughout the world under reasonable terms and conditions that are demonstrably free of any unfair competition.*  
*This statement is intended to apply to the following parts of the proposed MPEG-4 standard (use the ones which apply):*  
*Systems, Visual, Audio, Reference Software, DMIF”.*

17. **WG11 approves the revised list of MPEG-4 editors**

<b>Part 1</b>	<b><u>A. Eleftheriadis</u>, C. Herpel, G. Rajan, L. Ward</b>
<b>Part 2</b>	<b><u>C. Horne</u>, <u>E. Jang</u>, T. Ebrahimi, Y. Nakaya, J. Ostermann, A. Puri</b>
<b>Part 3</b>	<b><u>B. Grill</u>, B. Edler, I. Kaneko, Y. Lee, M. Nishiguchi, E. Scheirer, M. Väänänen</b>
<b>Part 4</b>	<b>TBD</b>
<b>Part 5</b>	<b><u>M. Coleman</u></b>
<b>Part 6</b>	<b><u>V. Balabanian</u>, G. Franceschini</b>

18. **WG11 would like to thank participants from the SC24/VRML community for their cooperation in improving the BIFS part of the MPEG-4 CD and looks forward to a continuing collaboration in areas of common interest**
19. **WG11 approves the proposal for amendment of the MPEG-4 work**

**item parts 1, 2, 3, 5 and 6 for the purpose of developing MPEG-4 ver. 2.0 and requests the Convenor to forward the document to the SC29 Secretariat for further processing (WG11 N1910)**

**20. WG11 approves**

<b>MPEG-4 Video VM</b>	<b>WG11 N1869</b>
<b>MPEG-4 SNHC VM</b>	<b>WG11 N1891</b>

**21. WG11 approves**

<b>MPEG-4 Systems ver. 2.0 WD</b>	<b>WG11 N1911</b>
<b>MPEG-4 Visual ver. 2.0 WD</b>	<b>WG11 N1912</b>
<b>MPEG-4 Audio ver. 2.0 WD</b>	<b>WG11 N1913</b>
<b>MPEG-4 Reference Software ver. 2.0 WD</b>	<b>WG11 N1915</b>
<b>DMIF ver. 2.0 WD</b>	<b>WG11 N1916</b>

**22. WG11 approves the detailed MPEG-4 workplan**

<b>Mtg</b>	<b>Date</b>	<b>Result</b>
41 <sup>st</sup>	10/97	1. MPEG-4 ver. 1 CD 2. MPEG-4 ver. 1 conformance WD 1.0 3. MPEG-4 ver. 2 WD 1.0 4. A first instance of MPEG-4 browser integrated
42 <sup>nd</sup>	02/98	5. Clarification of MPEG-4 ver. 1 CD 6. MPEG-4 ver. 1 conformance WD 2.0 7. MPEG-4 ver. 2 WD 2.0
43 <sup>rd</sup>	03/98	8. Clarification of MPEG-4 CD 9. MPEG-4 ver. 1 conformance WD 3.0 10. MPEG-4 ver. 2 WD 3.0
44 <sup>th</sup>	07/98	11. MPEG-4 Final CD 12. MPEG-4 ver. 1 conformance WD 4.0 13. MPEG-4 ver. 2 WD 4.0
45 <sup>th</sup>	10/98	14. Clarification of MPEG-4 FCD 15. MPEG-4 ver. 1.0 conformance WD 5.0 16. MPEG-4 ver. 2.0 WD 5.0
46 <sup>th</sup>	12/98	17. MPEG-4 DIS 18. MPEG-4 ver. 1 conformance CD 19. MPEG-4 ver. 2 CD
	02/99	MPEG-4 IS
47 <sup>th</sup>	03/99	Clarification of MPEG-4 ver. 2 CD
48 <sup>th</sup>	07/99	MPEG-4 ver. 2 FCD
49 <sup>th</sup>	12/99	MPEG-4 ver. 2 DIS
	02/00	MPEG-4 ver. 2 IS

**23. WG11 approves the MPEG-7 Applications document (WG11 N1922).**

**24. WG11 approves the MPEG-7 Requirements document (WG11 N1921).**

**25. WG11 requests Rob Koenen, Adam Lindsay, Ibrahim Sezan and Thomas Sikora to organise an MPEG-7 seminar at the San Jose meeting on 98/02/04**

**26. WG11 approves its integrated workplan**

Part	Title	CfP	WD	CD PDAM PDTR	FCD FPDAM FPDTR	DIS DAM DTR DCOR	IS AMD TR COR
<b>MPEG-2</b>							
10	Conformance extensions - DSM-CC				98/03	98/12	99/02
1/Amd 5	Systems-related table entries for AAC					98/03	98/05
4/Cor 1							98/02
4/Amd 1	AAC Conformance Testing					98/03	98/05
5/Amd 1	AAC Technical Report					98/03	98/05
7/Cor 1						97/10	98/03
<b>MPEG-4</b>							
1	Systems				98/07	98/12	99/02
2	Visual				98/07	98/12	99/02
3	Audio				98/07	98/11	99/02
4	Conformance Testing			98/10	99/07	99/12	00/02
5	Reference Software				98/07	98/12	99/02
6	DSM-CC Multimedia Integration Framework (DMIF)				98/07	98/12	99/02
1/Amd 1	Systems extensions		97/10	98/10	99/07	99/12	00/02
2/Amd 1	Visual extensions		97/10	98/10	99/07	99/12	00/02
3/Amd 1	Audio extensions		97/10	98/10	99/07	99/12	00/02
5/Amd 1	Reference Software extensions		97/10	98/10	99/07	99/12	00/02
6/Amd 1	DMIF extensions		97/10	98/10	99/07	99/12	00/02
<b>MPEG-7</b>							
1	MPEG-7	98/10	99/07	00/03	00/07	00/12	01/02

**27. WG11 approves its five-year meeting schedule**

Legend:

