

**INTERNATIONAL ORGANISATION FOR STANDARDISATION
ORGANISATION INTERNATIONALE DE NORMALISATION
ISO/IEC JTC 1/SC 29/WG 11
CODING OF MOVING PICTURES AND AUDIO**

ISO/IEC JTC 1/SC 29/WG 11 **N2249**

July 1998

Source: Leonardo Chiariglione – Convenor
Title: Resolutions of 44th WG 11 meeting
Status:

- 1 WG11 approves the reports of the San Jose and Tokyo 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 :

Title	No.
Disposition of the Comments by National Bodies on ISO/IEC 13818-2/ PDAM5 Ballot	N2255
ISO/IEC 13818-2 Final Proposed Draft Amendment 5	N2256
ISO/IEC 13818-1 Proposed Draft Amendment 6	N2267
Request for ISO/IEC 13818-1 Proposed Draft Amendment 6	N2268
MPEG-4 Requirements Document	N2321
MPEG-4 Applications Document	N2322
MPEG-4 Version 1 Overview	N2323
MPEG-4 Version 2 Overview	N2324
Study of MPEG-4 Systems FCD	
Study of MPEG-4 Visual FCD	
Study of MPEG-4 Audio FCD	N2271
Overview of MPEG-4 Profile and Level definitions	N2325
MPEG-7 Context and Objectives	N2326
MPEG-7 Requirements Document	N2327
MPEG-7 Applications Document	N2328
MPEG-7 Third draft of Evaluation Process Document	N2329
MPEG-7 Second Advance Call for Proposals and draft Proposal Package Description	N2330
MPEG-7 Call for additional Content	N2331

3.1.2 to establish the following AdHoc Groups :

Title	Chair(s)	No.	Meeting
Requirement study for High Quality Applications	Y. Yagasaki, A. Luthra	N2363	No
MPEG-4 Levels	Kevin O'Connell	N2364	No
AHG on MPEG-7 Requirements	F. Nack, E. Hartley	N2365	No
AHG on MPEG-7 Test and Evaluation issues	S. Jeannin, S. Paek, V. Vinod	N2366	Yes
AHG on Audio activities in MPEG-7	A. Lindsay, J. Herre	N2367	No

3.1.3 to make publicly available the following documents :

Title	No.
MPEG-4 Requirements Document	N2321
MPEG-4 Applications Document	N2322
MPEG-4 Version 1 Overview	N2323
MPEG-4 Version 2 Overview	N2324
Overview of MPEG-4 Profile and Level definitions	N2325
MPEG-7 Context and Objectives	N2326
MPEG-7 Requirements Document	N2327
MPEG-7 Applications Document	N2328
MPEG-7 Third draft of Evaluation Process Document	N2329
MPEG-7 Second Advance Call for Proposals and draft Proposal Package Description	N2330
MPEG-7 Call for additional Content	N2331

3.1.4 Having heard the comments from the Japanese and US National Bodies, and the position from the SMPTE, to ask national bodies their opinion on the desirability of starting a PDAM with the goal to change the maximum number of lines in all High Levels in IS 13818-2 (MPEG-2 Video) from 1152 to 1088

3.1.5 That a study be made to the applications and operational environments for fine-grain scalability, to help deciding which tools suit the requirements. In particular, this applies to how the proposed tools would work together with transport protocols used on the Internet

3.1.6 That NBs comment on the proposed new way of defining levels using a complexity formula.

3.1.7 To discontinue the Profiles Requirements Document as a vehicle for developing requirements for Profiling, acknowledging that it has served its purpose

3.2 The Delivery group recommends

3.2.1 3.2.1 to approve the following documents:

Title	No.
Study on DMIF V1 FCD	N2310
DMIF V2 WD 3.0	N2312
DMIF FAQ	N2313
Study on MPEG-2 DSM-CC Conformance 13818-10 FCD	N2314
Text of ISO/IEC 13818-6/FPDAM1	N2264

3.2.2 3.2.2 to approve the following AdHoc Group:

Title	No.	Meeting
AHG on Mobile Network Connections	N2315	

3.2.3 3.2.3 to make public the following documents:

Title	No.
DMIF FAQ	N2313

3.3 The Systems group recommends

3.3.1 the approval of the following documents:

Title	No.
Systems Version 1 Study of FCD	N2349
Version 1 Templates for FCD Comments	N2350
Guidelines to editors for Systems and DMIF specification harmonisation	N2351
Status of the Systems Version 1 Software Implementation	N2352
Systems Software Implementation Workplan	N2353
Streams data base V.2	N2354
Quick guide for MPEG-4 scene creation	N2355
IM1 software tools	N2356
2D BIFS scene editor	N2357
MPEG-4 Systems Version 2 WD 3.0	N2358
MPEG-4 Systems Version 2 VM 3.0	N2359
MPEG-4 IPMP Overview	N2360
MPEG Systems Workplan	N2361
Systems FAQ	N2362

3.3.2 that comments on the Systems FCD are made according to the template for National Bodies comments on Systems.

3.3.3 that the DMIF and Systems specifications are harmonized according to the guideline document proposed by the DMIF and Systems sub-groups.

3.3.4 that the Systems AHG on Im1 will publish the Status of the Im1 software on 15th of September. This information shall be made available to the National Bodies for the balloting on the Systems part of the FCD.

3.3.5 given the progresses made in Im1, in implementing the Systems BIFS node, that National Bodies make comments on the possible inclusion of new implemented, tested and exercised nodes in MPEG-4 Systems Version 1.

3.3.6 given the progress made in IPMP, that this technology is included in the Version 1 FDIS if so requested by the National Bodies and if the following points are achieved :

- the specification as published in VM 3.0 is assessed by MPEG experts and National Bodies as complete,
- this specification is implemented, tested and exercised in Im1 following the time schedule described in the Im1 work plan,
- protected content together with unprotected content is played on Im1,

- the IPMP functionality is demonstrated by the Atlantic City meeting at the Monday plenary so that representatives of National Bodies can comment during the meeting on the possible inclusion of the technology in Version 1.

- 3.3.7 given the sensitivity of the content industry to the free availability of MPEG-4 software executable encoders and decoders, that these tools are not made available outside MPEG.
- 3.3.8 given that the Systems sub-group published a set of APIs for the MPEG Player platform (Im1) within which Version 1 and Version 2 tools developed by other MPEG-4 sub-groups can be integrated (plug-in interfaces), the Systems sub-group expects to receive from other MPEG-4 sub-groups more effective pluggable decoders in order to achieve a full implementation of an MPEG-4 browser and to progress in making demonstrations of MPEG-4 capabilities.
- 3.3.9 that the activity “normative composition” is suspended as a subject to work on because of lack of activity.
- 3.3.10 that, acknowledging contributions supporting the introduction of ECMA Script in the MPEG-4 application engine, specification, implementation and comparison are made. The best technology will be chosen in accordance to the MPEG procedure of core experiment. In case both ECMA Script and the current MPEG-4 VM choice (Java), satisfy equally the MPEG-4 requirements in terms of performance and functionality, the VM technology will stay as is. A core experiment on ECMA Script for use in the MPEG-4 engine will be introduced in the current VM and published on the MPEG-J and Systems reflector within 10 days after the Dublin meeting.
- 3.3.11 that the different parts of the MPEG-4 Version 2 WD and VM will be integrated within 20 days after the Dublin meeting to accommodate final text editing for MPEG-J core experiment.

3.3.12 to establish the following AdHoc Groups:

Title	Chair(s)	No.
AHG on Systems Specifications Editing	Eleftheriadis & al.	N2369
AHG on Systems Conformance	Dufourd & al.	N2370
AHG on Advanced BIFS	Signes & al.	N2371
AHG on MPEG-J Specification and Implementation	Fernando & al.	N2372
AHG on MPEG-4 File Format	Pawson	N2373
AHG on Intellectual Property Management & Protection within MPEG-4	Rump & al.	N2374
AHG on IM 1 Software Platform	Lifshitz & al.	N2375
AHG on MPEG-4 and the Web	Rob Koenen & al.	N2376

3.3.13 to make publicly available the following documents:

Title	No.
Systems FAQ	N2362
MPEG-4 IPMP Overview	N2360
Quick guide for MPEG-4 scene creation	N2355
MPEG-4 Systems Version 2 VM 3.0	N2359

3.4 The Video group recommends

3.4.1 approval of the following documents :

Title	No.
Study on the ISO/IEC 14496-2 FCD	N2339
Response to National Body Comments	N2392
Text of ISO/IEC 14496-2 visual working draft Version 2 Rev.4.0	N2340
Description of core experiments in MPEG-4 video	N2341
Preliminary Specification of Test Conditions for Video Scalability Verification Tests	N
Report of Verification Test on Video Error Resilience	N
WD 4.0 of MPEG-4 Conformance Testing	N2343
Disposition of comments by National Bodies on ISO/IEC 13818-2 / PDAM 5	N2255
ISO/IEC 13818-2 Final PDAM 5	N2256

3.4.2 to establish the following AdHoc Groups :

Title	Chair	No.	Meetings
Ad-hoc group on core experiments in MPEG-4 video	Ostermann, Ohm, Tan, Sodogar and Frater	N2344	
Ad-hoc group error resilience verification in MPEG-4 video	Frater	N2345	
Ad-hoc group on software integration and verification in MPEG-4 video	Tan	N2346	
Ad-hoc group on editing the documents of the MPEG-4 video verification model and the MPEG-4 visual working draft	Ebrahimi, Horn, Chang, Nakaya	N2347	
Ad-hoc group on MPEG-4 video encoder optimization	Chiang, Sun	N2348	

3.5 The Audio group recommends

3.5.1 approval of the following documents:

Title	No.
Conformance 13818-4/FDAM 1 (covering 13818-7 AAC)	N2258
DoC on Conformance 13818-4/FPDAM 1	N2257
Technical Report 13818-5/AMD 1 (covering both 13818-3 Second Edition and 13818-7 AAC)	N2262
DoC on Technical Report 13818-5/DAM 1	N2261
Workplan for AAC Conformance and Technical Report Software	N2298
MPEG-2 AAC 13818-7 COR 1	N2266
DoC on MPEG-2 AAC 13818-7 DCOR 1	N2265
Workplan for MPEG-2 AAC 13818-7 Dynamic Range Control	N2270
Study on ISO/IEC 14496-3 FDIS	N2271
Study on DoC on MPEG-4 Audio Final Committee Draft 14496-3	N2272
Responses to National Body papers	N2392
ISO/IEC 14496-4 WD 3 Conformance Testing of the MPEG-4	N2273
Study on MPEG-4 Audio Reference Software FDIS 14496-5	N2274

Study on DoC on MPEG-4 Audio Reference Software Final Committee Draft 14496-5	N2275
MPEG-4 Audio verification test results: narrowband audio broadcasting	N2276
Plan for MPEG-4 Audio verification tests: speech codecs	N2277
Plan for MPEG-4 Audio verification tests: music on Internet	N2278
Prescreening results on MPEG-4 Audio verification test excerpts - Music on Internet	N2279
Information on MPEG-4 Audio systems issues	N2280
Harmonisation of TTS and FBA	N2281
SA complexity tool	N2282
MPEG-4 Audio Version 2 WD	N2283
MPEG-4 Audio error resilience workplan (update of the 44th meeting)	N2284
Identification of source files for watermarking evaluations	N2285
Markup TTS	N2286
MPEG-4 Overview Update	N2323 N2324
MPEG Audio FAQs version 8	N2287
Proposals for the MPEG Audio web site content	N2288
Bibliography of WG11 Input Documents m0551 to m3836, December 1995 to June 1998	N2289
Report on AAC Twin VQ convergence work	N2232
Bibliography of WG11 Output Documents N0965 to N2247, July 1995 to March 1998	N2290

3.5.2 that any remaining editorial issues relating to MPEG-2 Conformance 13818-4/FDAM 1, Technical Report 13818-5/AMD 1 and Corrigendum 13818-7 COR 1 be handled in an ad-hoc group and that they be resolved within two weeks of the completion of the Dublin meeting.

3.5.3 to establish the following AdHoc Groups:

Mandate	No.	Meeting
Ad-hoc group on completion of MPEG-2 Conformance 13818-4/FDAM 1, Technical Report 13818-5/AMD 1 and Corrigendum 13818-7 COR 1 (Paley/Lueck)	N2295	
Ad-hoc group on MPEG-4 Audio FDIS and Reference Software FDIS progression (Grill/Purnhagen)	N2292	98/10/10-11
Ad-hoc group on MPEG-4 Audio Conformance and complexity (Spille)	N2293	
Ad-hoc group on MPEG-4 Structured Audio (Scheirer/Ray)	N2294	
Ad-hoc group on MPEG-4 Audio Verification tests (Dietz/S-W Kim)	N2296	98/10/10-11
Ad-hoc group on MPEG-4 Audio Version 2 error resilience (Dietz/Miki)	N2297	98/09/07 98/10/10-11

3.5.4 the following documents be made publicly available:

Title	No.
MPEG-4 Audio verification test results: narrowband audio broadcasting	N2276
MPEG Audio FAQs version 8	N2287

Title	No.
Bibliography of WG11 Output Documents N0965 to N2247, July 1995 to March 1998	N2290
MPEG-4 Reference Software FCD	N2205
Audio contribution to Dublin Press statement	N2253

3.6 The SNHC group recommends

3.6.1 to approve the following documents :

Title	No.
SNHC Conformance Plan	2299
SNHC Reference Software & Work Plan	N2300
SNHC Verification Model 9.0	N2301
Core Experiments in Face Body Animation	2302
Core Experiments in 3D Model Coding	N2303
SNHC Public Request for Domain-Specific Data Sets for 3D Model Coding	N2304
SNHC Release of Verification Model Tools in 3D Model Coding for Public Evaluation	N2305
SNHC FAQs	2309

3.6.2 to establish the following AdHoc Groups :

Title		No.	Meeting
Ad Hoc Group on 3D Model Coding	Touradj Ebrahimi, Pete Doenges	N2306	30-31 August 1998, Seoul Korea 11 October 1998, Atlantic City
Ad Hoc Group on Face Body Animation	Eric Petajan, Tolga Capin	N2307	11 October 1998, Atlantic City
Ad Hoc Group on SNHC VM Editing	Gabriel Taubin, Jiankun Li	N2308	None

3.6.3 to make publicly available the following documents :

Title	No.
Text of SNHC Verification Model 9.0	N2301
SNHC Public Request for Domain-Specific Data Sets for 3D Model Coding	N2304
SNHC Release of Verification Model Tools in 3D Model Coding for Public Evaluation	N2305
SNHC FAQs	N2309

3.6.4 to resolve that WG11 thanks the Korean National Body for its comments on the progress of SNHC and in particular the 3D Model Coding tools for Version 2 MPEG-4. In response, two additional 3D Model Coding Ad Hoc Group meetings have been scheduled before the WG11 meeting in Atlantic City to

ensure adequate attention to this important priority. Moreover, necessary steps have been taken to enlist additional resources to confirm the superiority of the technologies already selected for advancement to Working Draft in Atlantic City. A request for additional test models will be issued, and the 3D Model Coding Verification Model software will be made available for public evaluation, at this meeting.

3.6.5 to request permission of WG11 for an extended 3-week editing period before release of the SNHC VM 9.0.

3.6.6 to request permission of WG11 to prepare software and description for public release under N2305 after the Ad Hoc Group meeting in Korea. The software should be made known outside of MPEG with the disclaimer of WG11 N2397).

3.6.7 to request permission of WG11 for an extended 3-week editing period before release of the Core Experiments on 3D Model Coding under N2303.

3.7 The Test group recommends

3.7.1 to approve the following documents:

Title	No.
MPEG-4 Audio verification test results: narrowband audio broadcasting	N2276
Plan for MPEG-4 Audio verification tests: speech codecs	N2277
Plan for MPEG-4 Audio verification tests: music on Internet	N2278
Prescreening results on MPEG-4 Audio verification test excerpts - Music on Internet	N2279
MPEG-4 Video verification test results: error robustness	N2333
Revised test conditions for video verification test on content-based coding	N2334
Revised test conditions for video verification test on scalability	N2335
Test plan for the second verification test on error resilience	N2368
Logistics for distribution of video and audio-visual test material on CD-ROMs	N2336
MPEG Test FAQs	N2337

3.7.2 to establish the following AdHoc Groups:

Title	No.	Meeting
Ad-hoc group on MPEG-4 Audio Verification tests (Edler/S-W Kim)	N2296	
Ad-hoc group on MPEG-4 Video Verification tests (Wollborn/Suzuki/Baroncini)	N2338	98/10/11

3.7.3 to publish the following document

Title	No.
MPEG-4 Audio verification test results: narrowband audio broadcasting	N2276
MPEG Test FAQs	N2337

3.7.4 That, considering the comments provided by the video experts on the results of the error resilience verification test, further evaluation is to be performed. If it is

judged that significant improvement can be obtained by more appropriate choices of encoder parameters, new test material will be produced and the test repeated.

3.7.5 to acknowledge all the people that contributed to the narrowband audio broadcasting test:

- the MPEG-Audio Test AHG members, in particular Caroline Jacobson (TERACOM) and Eric Schreirer (MIT)
- the NADIB CODEC group members, in particular Catherine Colomes (CCETT)
- the selection panel members,
- MM JY Leseure , JP Thomas and H Maudier (CCETT) for their reliable support and help in test organisation at CCETT
- Personnel at the selection site (Swedish Broadcasting Corporation)
- Personnel at the test sites (CCETT and Teracom)

The Test Subgroup also thanks Jean-Bernard Rault (CCETT), Martin Dietz (FhG), Pete Schreiner (Scientific Atlanta) and David Meares (BBC) for their valuable contribution in the revision of the report of the test.

3.8 The Implementation Studies group recommends

3.8.1 The approval of the following documents:

Title	No.
Recommendations for still texture coding (wavelets) implementations.	N2316
Description of experiments assessing the complexity of SNHC tools	N2317
Definition of visual profile levels based on complexity metrics	N2318
Study of complexity of the Structured Audio Orchestra Language	N2282

3.8.2 to establish the following AdHoc Groups:

Title	No.	Meeting
Ad-hoc group on Computational Graceful Degradation	N2319	
Ad-hoc group on video Decoder Quality of Service	N2320	

3.9 The Liaison group recommends

3.9.1 the approval of the response to National Bodies (WG11 N2392)

3.9.2 the approval of the following liaison documents:

Title	No.
Closer working relationship with IETF on DMIF	N2377
Liaison to ECMA	N2378
Reply to liaison statement of ITU-T SG 12 on MPEG-4 audio verification tests	N2379
Reply to liaison statement of ITU-T SG 12 on MPEG-4 video verification tests	N2380
Liaison to ITU-R JWP 10-11Q on MPEG-4 audio verification tests	N2381
Reply to liaison statement of ITU-R JWP 10-11Q on MPEG-4 video verification tests	N2382
Liaison to ITU-T SG16 on MPEG-4 audio verification tests	N2383
Liaison to ITU-T SG 16 Q11 & Q15 on MPEG-4 Video over H.324	N2384
Liaison to VRML and SC24	N2385
Liaison to EBU B/CASE on MPEG-4 audio verification tests	N2386

Liaison to ITU-R 10C on MPEG-4 audio verification tests	N2387
Liaison to JPEG	N2388
Liaison to World Wide Web Consortium (W3C)	N2389
Liaison to DVB	N2390
Liaison to ATSC	N2391
Liaison to CEN	N2393
Liaison to DAVIC	N2394
Liaison to SMPTE	N2395
Liaison to DVB Technical Module	N2396
Liaison to ITU-T SG-16 on Publications Scheduling	N2342

3.9.3 We recommend to SC29 the acceptance of the liaison requests from Intelsat and SMPTE

3.9.4 We recommend to SC29 the acceptance of Mr. Yoshihiro Kikuchi as liaison to ITU-T SG16 Q11

3.10 The HoD group

3.10.1 is pleased to note a new record for delegate registrations at this meeting, namely 366 registrations.

3.10.2 being aware of past delays in the process of agreeing licensing arrangements of the IPR in MPEG Standards, recommends that National Bodies examine and propose a handling of MPEG IPR can be achieved in a way that is more timely and more responsive to the fast changing environment. The Convenor is asked to convey the concerns of HoDs to SC29.

3.10.3 is concerned that some of the Standards being approved by WG11 are not published sufficiently quickly for industry to benefit from the technology in a timely way. HoDs ask that SC29 secretariat inform the Convenor immediately of any problems in publishing previously approved Standards and report in any case at the MPEG meetings of such matters.

3.10.4 is grateful to the Japanese National Body for their proposed amendments to the software copyright statement as replicated here.

“This software module was originally developed by <FNI> <LN1> (<CNI>) and edited by <FN2> <LN2> (<CN2>), <FN3> <LN3> (<CN3>), ... in the course of development of the <MPEG standard>. This software module is an implementation of a part of one or more <MPEG standard> tools as specified by the <MPEG standard>. ISO/IEC gives users of the <MPEG standard> free license to this software module or modifications thereof for use in hardware or software products claiming conformance to the <MPEG standard>. Those intending to use this software module in hardware or software products are advised that its use may infringe existing patents. THE ORIGINAL DEVELOPER OF THIS SOFTWARE MODULE AND HIS/HER COMPANY, THE SUBSEQUENT EDITORS AND THEIR COMPANIES, AND ISO/IEC HAVE NO LIABILITY FOR USE OF THIS SOFTWARE MODULE OR MODIFICATIONS THEREOF. No license to this software module is granted for non <MPEG standard> conforming products. <CNI> retains full right to use the software module for his/her own purpose, assign or donate the software module to a third party and to inhibit third parties from using the code for non <MPEG standard> conforming products. This

copyright notice must be included in all copies or derivative works of the software module. Copyright ^a 199_”.

All members are requested to ask their companies/organisations and particularly those that have already donated software to express their agreement or otherwise of the revised version by the time of the October 1998 meeting. Being that it is not practical to apply this to MPEG-4 Version 1, WG11 intend that, subject to agreement, it be used for software donations relevant to MPEG-4 Version 2 and MPEG-7. At the October meeting the level of agreement will be assessed.

- 3.10.5 in support of the Japanese National Body, recommends that the document describing the MPEG-4 IPMP interface be made publicly available and that NBs be encouraged to make its existence well known and to collect comments on it.
- 3.10.6 recommends that a statement that part 5 does not extend the normative elements of the other parts (e.g. DCT etc.) be included in part 5 of the standard (and elsewhere as appropriate). HoDs note that conformance to a standard is independent of the technology (hardware or software) that is used to implement the standard. HoDs further note conformance should be checked against the text and all the software implementations that are available in the standard (e.g. in the case of Video).
- 3.10.7 reminds participants in ad hoc groups of the existing "Rules of operation of MPEG ad-hoc groups" (WG11 N1502) and offer a "Guide to Ad-hoc Group conduct and reporting" (WG11 N2291).
- 3.10.8 recommends approval of the meeting plan including
 - the 45th meeting in Atlantic City, USA over the period 12-16 October 1998
 - the 46th meeting in Eilat, Israel over the period 7 to 11 December 1998
 - the 47th meeting in Seoul, Korea over the period 15 to 19 March 1999 and acceptance of a meeting fee of approximately US\$300
 - the 48th meeting in Vancouver, Canada over the period 12 to 16 July 1999 and acceptance of a meeting fee of approximately US\$350
 - the 49th meeting in Melbourne, Australia over the period 4 to 8 October 1999 and acceptance of a meeting fee the level of which is yet to be determined
 - the 50th meeting Maui, Hawaii, USA over the period 6 to 10 December 1999
- 3.10.9 WG11, considering the expected use of MPEG-4 also in new domains such as the World Wide Web and the need to adapt it, requests SC29 to start the procedure to make the MPEG-4 standard available at no charge e.g. on the Web.

4 WG 11 requests that SC 29 approve revised proposed modification to ISO/IEC 13818-1 as specified in WG 11 N2268 (ref- WG 11 N2246).

5 WG 11 approves the text of ISO/IEC 13818-1/PDAM6 (WG 11 N2267) and requests the Convenor to forward the document to the SC 29 Secretariat for PDAM processing.

- 6 WG 11 approves the Disposition of Comments Report for ISO/IEC 13818-2/PDAM5 (WG 11 N2255) and the text of FPDAM5 (WG 11 N2256) and requests the Convenor to forward the documents to the SC 29 Secretariat for further processing.**
- 7 WG 11 approves the Disposition of Comments Report for ISO/IEC 13818-4/FPDAM1 (WG 11 N2257) and the text of FDAM1 (WG 11 N2258) and requests the Convenor to forward the documents to the SC 29 Secretariat for further processing.**
- 8 WG 11 requests that SC 29 approve proposed modification to ISO/IEC 13818-4 as specified in WG 11 N2259.**
- 9 WG 11 approves the text of ISO/IEC 13818-4/PDAM2 (WG 11 N2263) and requests the Convenor to forward the document to the SC 29 Secretariat for PDAM processing.**
- 10 WG 11 approves the text of ISO/IEC 13818-4/COR2 (WG 11 N2260) and requests the Convenor to forward the document to the SC 29 Secretariat for publication processing.**
- 11 WG 11 approves the Disposition of Comments Report for ISO/IEC TR 13818-5/DAM1 (WG 11 N2261) and the text of AMD1 (WG 11 N2262) and requests the Convenor to forward the documents to the SC 29 Secretariat for publication processing.**
- 12 WG 11 approves the text of ISO/IEC 13818-6/FPDAM1 (WG 11 N2264) and requests the Convenor to forward the document to the SC 29 Secretariat for further processing.**
- 13 WG 11 approves the Disposition of Comments Report for ISO/IEC 13818-7/DCOR1 (WG 11 N2265) and the text of COR1 (WG 11 N2266) and requests the Convenor to forward the documents to the SC 29 Secretariat for publication processing.**
- 14 WG11 recommends SC29 that ISO/IEC 13818-1:1996 and ISO/IEC 13818-2:1996 be revised to include all the Amendments and Corrigenda after Amendment 6 to ISO/IEC 13818-1:1996 reaches the publication stage.**
- 15 WG11 welcomes the announcement made by Karl-Heinz Brandenburg that a single licensing point for AAC patents has now been established by Dolby.**
- 16 WG11 approves the MPEG-2 workplan:**

Part	Title	CfP	WD	CD PDAM PDTR	FCD FPDAM FPDTR	FDIS FDAM DTR DCOR	IS AMD TR COR
MPEG-2							
10	Conformance testing extensions - DSM-CC					98/10	98/12
1/Amd 5	Systems-related table entries for AAC						98/11
1/Amd 6	4:2:2 Profile @High level splice parameters and buffer model for ISO/IEC 13818-7 (AAC)			98/07	98/10	99/03	99/05
2/Amd 5	4:2:2 Profile @High Level				98/07	98/12	99/02
4/Amd 1	AAC Conformance Testing					98/07	98/09
4/Amd 2	System Target Decoder Model			98/07	98/10	99/03	99/05
4/Cor 2							98/07
5/Amd 1	Revised MPEG-2 Simulation Software						98/07
6/Amd 1	Additions to support data broadcasting				98/07	98/12	99/02
7/Cor 1							98/07

17 WG11 approves the MPEG-4 Requirements document (WG11 N2323/WG11 N2324).

18 WG11 approves the verification test plan:

Date	Verification test
October meeting	Video error resilience Music on Internet Speech coding Content-based video coding
December meeting	Scalability

This plan will be extended as studies currently under way in the Audio and Video Subgroups mature.

19 WG11 would like to thank Jean-Claude Dufourd for providing the MPEG community with a tool to produce MPEG-4 content.

20 WG11 would like to thank the companies that have responded to resolution 16 of the Fribourg meeting requesting patent statements related to the MPEG-4 standard under development (WG11 N2267). WG11 reiterates its request to companies that have not yet produced such statements. WG11

notes that the following companies have submitted a patent for the MPEG-2 standard and not for MPEG-4

Bellcore
Belgian Science Policy Office
France Telecom CNET
GC Technology Corporation
General Instruments
Goldstar
IRT
KDD
Massachusetts Institute of Technology
National Transcommunications Limited
NEC Corporation
Qualcomm Incorporated
Scientific Atlanta
Toshiba Corporation
TV/Com

21 WG11 appoints the following editors for MPEG-4 ver. 1 conformance

General	Jean-Claude Dufourd
Systems	Jean-Claude Dufourd
Video	Weiping Li, Minhua Zhou
SNHC	Peter Doenges
Audio	Jens Spille
DMIF	Vahe Balabanian

22 WG11 approves MPEG-4 ver. 1 part 4 "Conformance Testing" (WG11 N2273). The final document will be produced by 25 July 1998.

23 WG11 approves:

MPEG-4 Systems ver. 2.0 VM	WG11 N2359
MPEG-4 SNHC ver. 2.0 VM	WG11 N2301

24 WG11 approves:

MPEG-4 Systems ver. 2.0 WD	WG11 N2358
MPEG-4 Visual ver. 2.0 WD	WG11 N2340
MPEG-4 Audio ver. 2.0 WD	WG11 N2283
MPEG-4 DMIF ver. 2.0 WD	WG11 N2312

25 WG11 approves the list of MPEG-4 version 2 editors:

Part 1	Riita Vaananen, Gerard Fernando, Niels Rump, David Singer
Part 2	Touradj Ebrahimi, Caspar Horne, <u>Euee Jang</u>, Yuichiro Nakaya, Jörn Ostermann, Atul Puri
Part 3	TBD
Part 5	<u>Mike Coleman</u>
Part 6	TBD

26 WG11 requests SC29 to initiate the procedure to change the title of the MPEG-4 work item and standard to "Coding of Audio-Visual Objects" for the purpose of having a better reflection of the content of the standard in the title.

27 WG11 approves the MPEG-4 workplan:

Part	Title	CfP	WD	CD PDAM PDTR	FCD FPDAM FPDTR	FDIS FDAM DTR DCOR	IS AMD TR COR
MPEG-4							
1	Systems					98/10	98/12
2	Visual					98/10	98/12
3	Audio					98/10	98/12
4	Conformance Testing			98/12	99/07	99/12	00/02
5	Reference Software					98/10	98/12
6	DMIF					98/10	98/12
1/Amd 1	Systems Extensions		97/10	98/12	99/07	99/12	00/02
2/Amd 1	Visual Extensions		97/10	98/12	99/07	99/12	00/02
3/Amd 1	Audio Extensions		97/10	98/12	99/07	99/12	00/02
4/Amd 1	Reference Software Extensions		97/10	98/12	99/07	99/12	00/02
6/Amd 1	DMIF Extensions		97/10	98/12	99/07	99/12	00/02

28 WG11 approves the MPEG-7 Applications document (WG11 N2328).

29 WG11 approves the MPEG-7 Requirements document (WG11 N2327).

30 WG11 approves the MPEG-7 Draft Proposal Package Description and Advance Call for Proposals (WG11 N2330).

31 WG11 approves the draft of the MPEG-7 evaluation procedure (WG11 N2329).

32 WG11 approves the Call for additional content (WG11 N2331).

33 WG11 is aware of the high value that some content may have and the concerns of some of the companies wishing to contribute it to MPEG are appreciated. For these companies WG11 establishes the following guidelines concerning graphic, audio, video and audio-visual material to be used in the development of the MPEG-7 standard (called "MPEG-7 content" in the following)

- **MPEG-7 content must be made available to any accredited MPEG member under conditions accepted by WG11 and without discrimination;**
- **It is the responsibility of the recipient to comply with the said conditions;**
- **While WG11 can facilitate distribution of material, WG11 cannot be a party nor assumes any obligation or liability in whatever agreement is entered into between a provider and a recipient of MPEG-7 content;**
- **MPEG-7 content must be made available for all the duration of the MPEG-7 standardisation project.**

Document WG11 N2331 gives a proposal of an agreement between a provider and a recipient of MPEG-7 content. Prospective providers are invited to express acceptance or propose improvements to the proposed text. Prospective providers are also invited to let WG11 know about the applicability of these conditions to the development of other MPEG standards.

34 WG11 thanks Lancaster University for their offer to host the MPEG-7 tests in February 1999.

35 WG11 urges its members to bring technical contributions to the next meeting describing how the MPEG-7 goals can be achieved.

36 WG11 approves the MPEG-7 workplan:

Part	Title	CfP	WD	CD PDAM PDTR	FCD FPDAM FPDTR	FDIS DAM DTR DCOR	IS AMD TR COR
MPEG-7							
1	Multimedia Content Description Interface	98/10	99/07	00/10	01/03	01/07	01/09

37 WG11 approves its integrated workplan:

Part	Title	CfP	WD	CD PDAM PDTR	FCD FPDAM FPDTR	FDIS DAM DTR DCOR	IS AMD TR COR
MPEG-2							

10	Conformance testing extensions - DSM-CC					98/10	98/12
1/Amd 5	Systems-related table entries for AAC						98/11
1/Amd 6	4:2:2 Profile @High level splice parameters and buffer model for ISO/IEC 13818-7 (AAC)			98/07	98/10	99/03	99/05
2/Amd 5	4:2:2 Profile @High Level				98/07	98/12	99/02
4/Amd 1	AAC Conformance Testing					98/07	98/09
4/Amd 2	System Target Decoder Model			98/07	98/10	99/03	99/05
4/Cor 2							98/07
5/Amd 1	Revised MPEG-2 Simulation Software						98/07
6/Amd 1	Additions to support data broadcasting				98/07	98/12	99/02
7/Cor 1							98/07
MPEG-4							
1	Systems					98/10	98/12
2	Visual					98/10	98/12
3	Audio					98/10	98/12
4	Conformance Testing			98/12	99/07	99/12	00/02
5	Reference Software					98/10	98/12
6	DMIF					98/10	98/12
1/Amd 1	Systems Extensions		97/10	98/12	99/07	99/12	00/02
2/Amd 1	Visual Extensions		97/10	98/12	99/07	99/12	00/02
3/Amd 1	Audio Extensions		97/10	98/12	99/07	99/12	00/02
4/Amd 1	Reference Software Extensions		97/10	98/12	99/07	99/12	00/02
6/Amd 1	DMIF Extensions		97/10	98/12	99/07	99/12	00/02
MPEG-7							
1	Multimedia Content Description Interface	98/10	99/07	00/10	01/03	01/07	01/09

38 WG11 approves its five-year meeting schedule:

No.	yy	mm	dd	City	Country
44	98	07	06-10	Dublin	IE
45	98	10	12-16	Atlantic City, NJ	US
46	98	12	07-11	Eilat	IL

47	99	03	15-19	Seoul	KR
48	99	07	12-16	Vancouver, BC	CA
49	99	10	04-08	Melbourne, VIC	AU
50	99	12	06-10	Maui, HI	US

39 WG11 approves its Dublin press release for publication on the MPEG home page (WG11 N2253).

40 The Convenor would like to express his thanks to Kotaro Asai, Frank Bossen and Peter Schirling for their support in the preparation of the Friday Plenary.

41 WG11 thanks the host for providing outstanding meeting environment, in particular

Teltec Ireland	Liam Ward, Kay Fitzgerald, Noel O'Connor, Karen O'Sullivan, Tony Walsh, Tarek Khadir, Christian Sena
Conference Promotions International	Deirdre O'Connell, Catherine Gearty, Dorothy Walshe, Noelle Noonan, Ailish Shepherd
Dublin Castle Conference Centre	The staff
Cullens Catering	The staff

WG11 adjourned on 98/07/10 21:55