

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

ISO/IEC JTC1/SC29/WG11 N1976

February 1998

Source: Leonardo Chiariglione – Convenor
Title: Resolutions of 42nd WG11 meeting
Status:

1. WG11 approves the reports from the Requirements, Delivery, Systems, Video, Audio, SNHC, Test, Implementation, Liaison and HoD.

2. Subgroup recommendations

2.1. The Requirements group recommends

2.1.1. to approve the following documents :

MPEG-4 Requirements Document	N2075
MPEG-4 Applications Document	N2076
MPEG-4 Tool list	N2077
MPEG-4 Version 1 Overview	N2078
MPEG-4 Version 2 Overview	N2079
Guidelines for the Version 2 VM/WD Procedure	N2073
MPEG-7 Context and Objectives	N2082
MPEG-7 Requirements Document	N2083
MPEG-7 Applications Document	N2084
MPEG-7 Draft Proposal Package Description	N2085
MPEG-7 First draft of Evaluation Process Document	N2086
Response to various National Bodies concerning the MPEG-4 V. 1 CD's	N2087
Response to the Japanese National Body concerning MPEG-1 framerates	
Response to French National Body Comment concerning OCI development	
Response to the Portuguese National Body on MPEG-7	
Response to the US NB regarding Normative Composition	
study of CD of 14496-1 (MPEG-4 Systems)	N2043
study of CD of 14496-2 (MPEG-4 Visual)	N2072
study of CD of 14496-3 (MPEG-4 Audio)	N2008
study of CD of 14496-6 (DMIF)	N1989

- 2.1.2. To ask, in a future call for a registration authority for the MPEG-4 OCI, from candidate authorities that they make publicly available the semantics of the registered OCI-types, e.g. on a web site.
- 2.1.3. To only define new Object Profiles and Combination Profiles relative to what is currently in CD 14496-2 (Visual) and CD 14496-3 (Audio) if there is good commitment from industry, which for Version 1 needs to be brought to MPEG via considerable support from National Bodies.
- 2.1.4. That National Bodies carefully review the Combination Profiles listed in the Study of CD 14496-2 (Visual) and, in their comments accompanying the ballot, put forward requests for those Combination Profiles for which there is commitment from industry. If National Bodies deem necessary the standardization of a Combination Profile that is not listed in the study, they are welcome to suggest such a new Combination Profile.
It will help the discussions if NBs accompany all their requests for Combination Profiles by an explanation as to why they want to see certain Combination Profiles standardized, i.e. for which application areas.
- 2.1.5. That NBs comment on the desirability of creating a conformance point in the form of Combination Profiles (and Levels) that only use the base layer of the ‘Main Video Object Profile’, in their comments accompanying their CD ballot vote.
- 2.1.6. to consider asking National Bodies their opinion about a work item on Advanced Layered Coding, if a serious requirements study is available at the 43rd meeting in Tokyo, showing the need for such a new work item.
- 2.1.7. the organization of an open and free MPEG-7 seminar on Wednesday 18 March at the Tokyo meeting.

2.1.8. to establish the following AdHoc groups :

Requirements for Advanced Layered Coding	SJ Huang et. al.	N2105
MPEG-4 Profiles and Levels	Kevin O’Connell et.al.	N2106
Normative Composition in MPEG-4	Kevin Barron et. al.	N2107
Version Management in MPEG-4	Jae-Seob Shin	N2108
Ad Hoc Group on content-related IPR in MPEG-4	Niels Rump	N2109
AHG on MPEG-7 Requirements	Ibrahim Sezan et. al.	N2110
AHG on MPEG-7 Evaluation Procedures	Sylvie Jeannin et. al.	N2080
AHG on MPEG-2 4:2:2 Profile	Ajay Luthra	N2042

2.1.9. to make publicly available the following documents :

MPEG-4 Requirements Document	N2075
MPEG-4 Applications Document	N2076
MPEG-4 Version 1 Overview	N2078
MPEG-4 Version 2 Overview	N2079
MPEG-7 Context and Objectives	N2082

MPEG-7 Requirements Document	N2083
MPEG-7 Applications Document	N2084
MPEG-7 Draft Proposal Package Description	N2085

2.2. The Delivery group recommends

2.2.1. to approve the following documents

Study of DMIF V1 CD	N1989
DMIF V1 Conformance WD	N1999
DMIF reference source code architecture for IM1	N2058
DMIF Version 2 WD 2.0	N2059
DMIF FAQ	N2060
DSM-CC Proposed Draft Amendment (PDAM) 1	N1987

2.2.2. to approve the DSM-CC Proposed Draft Amendment (PDAM) 1.

2.3. The Systems group recommends

2.3.1. The approval of the following documents

Disposition of Comments of 13818-4 DCOR 1	N1984
Text of 13818-4 COR 1	N1983
Disposition of Comments of 13818-1 FPDAM 5	N1991
Text of 13818-1 FDAM 5	N1990
Text of 13818-4 DCOR 2	N1986
Text of 13818-6 PDAM 1	N1987
MPEG-4 Systems Version 1 Study of CD	N2043
MPEG-4 Systems Software Version 1 Study of CD	N2044
MPEG-4 Systems Conformance Specification	N2045
Description of the status of the Systems Software Implementation	N2047
Systems Version 1 Software Implementation Workplan	N2046
MPEG-4 Systems Version 2 Workplan	N2048
MPEG-4 Systems Version 2 WD 1.0	N2049
MPEG-4 Systems Version 2 VM 1.0	N2050

2.3.2. the Systems sub-group is developing a software platform where Version 1 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 effective pluggable decoders in order to progress in making

demonstrations of MPEG-4 capabilities. The Systems sub-group will publish a set of APIs for this purpose in accordance to its work plan.

2.3.3. The different parts of the WD will be integrated within one week after the San Jose meeting

2.3.4. The different parts of the VM will be integrated within one week after the San Jose meeting

2.3.5. to establish the following AdHoc group :

AHG on Systems Specifications Editing	Eleftheriadis & al.	N2051
AHG on Systems Elementary Streams Management	Herpel & al.	N2052
AHG on BIFS Scene Description	Signes & al.	N2053
Develop, Integrate and Demonstrate IM 1 Software	Lifshitz & al.	N2054
AHG on Systems Conformance	Dufourd & al.	N2055
AHG on AAVS Specification and Implementation	Fernando & al.	N2056
AHG on MPEG-4 Intermedia Format Specification and Implementation	Pawson	N2057

2.3.6. to make publicly available the following documents :

MPEG-4 Systems Version 2 Workplan	N2048
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2.4. The Video group recommends

2.4.1. approval of the following documents :

Text of ISO/IEC 14496-2 video verification model V.10.0	N1992
Text of ISO/IEC 14496-2 visual working draft Version 2 Rev.2.0	N 1993
Description of core experiments on shape coding in MPEG-4 video	N 1994
Description of core experiments on region-oriented texture coding in MPEG-4 video	N1995
Description of core experiments on error resilience in MPEG-4 video	N1996
Description of core experiments on multifunctional coding aspects in MPEG-4 video	N1997
Description of core experiments on coding efficiency in MPEG-4 video	N1998
Guidelines for Version 2 VM/WD procedure	N2073
Study of CD Part 2	N2072
Results of pre-evaluation of content-based coding verification test	N2074

WD 2.0 of MPEG-4 Conformance Testing	N2009
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2.4.2. The video group is aware that IM1 is specifying interfaces for the integration of software in binary format that will allow the fast decoding and presentation of natural video. The following companies are considering to support this activity by providing appropriate decoders:

- 1. Momusys**
- 2. HHI**

2.4.3. to establish the following ad-hoc groups :

Ad-hoc group on core experiments on coding of arbitrarily shaped objects in MPEG-4 video	Ostermann	N2033
Ad-hoc group on core experiments on error resilience in MPEG-4 video	Brailean & Frater	N2034
Ad-hoc group on core experiments on multifunctional coding in MPEG-4 video	Puri	N2035
Ad-hoc group on core experiments on coding efficiency in MPEG-4 video	Tan	N2036
Ad-hoc group on editing the documents of the MPEG-4 video verification model and the MPEG-4 visual working draft	Ebrahimi & Horne	N2037
Ad-hoc group on advanced layered coding for high resolution video	Huang	N2038
Ad-hoc group on MPEG-4 video encoder optimization	Chiang & Sun	N2039
Ad-hoc group on MPEG-4 texture coding	Sodagar	N2040
Ad-hoc group on MPEG-4 Random Access Coding	Wollborn	N2041
Ad-hoc group on MPEG-2 4:2:2 MP@High Level	Luthra	N2042
Ad-hoc group on Error Robustness Verification Tests	Miki	N2062
Content-based coding pre-screening activity	Boon	N2087

2.4.4. that the following documents are made publicly available :

Text of ISO/IEC 14496-2 video verification model V.10.0	N1992
Text of ISO/IEC 14496-2 visual working draft Version 2 Rev.2.0	N1993
Description of core experiments on shape coding in MPEG-4 video	N1994
Description of core experiments on region-oriented texture coding in MPEG-4 video	N1995
Description of core experiments on error resilience in MPEG-4 video	N1996
Description of core experiments on multifunctional coding aspects in MPEG-4 video	N1997
Description of core experiments on coding efficiency in MPEG-4 video	N1998

2.5. The Audio group recommends

2.5.1. to approve the following documents :

Title	number
Study on Conformance 13818-4/DAM 1 (covering 13818-7 AAC)	N2001
Study on Technical Report 13818-5/DAM 1 (covering both 13818-3 Second Edition and 13818-7 AAC)	N2002
Study on MPEG-2 AAC 13818-7 Draft Technical Corrigendum 1	N2003
Workplan for AAC conformance and technical report	N2004
Revised report on complexity of MPEG-2 AAC tools	N2005
MPEG-2 AAC stereo verification test results	N2006
Preliminary responses to National Body papers relating to Committee Draft 14496-3	N2007
Study on MPEG-4 Audio Committee Draft 14496-3	N2008
MPEG-4 Conformance Testing Working Draft 2.0 14496-4 (Video and Audio)	N2009
Study on MPEG-4 Reference Software Committee Draft 14496-5	N2010
MPEG-4 Audio: results of AAC and Twin VQ tool comparative tests	N2011
Study on MPEG-4 Audio AAC/TwinVQ convergence	N2012
MPEG-4 Audio verification test specification: NADIB part	N2013
Proposal for MPEG-4 Audio verification tests: speech codecs	N2014
Proposal for complexity evaluation of MPEG-4 Audio decoder tools	N2015
Information on MPEG-4 Audio systems issues	N2016
MPEG-4 Requirements	N2075
MPEG-4 Overview for Version 2	N2079
WD for MPEG-4 Audio ISO/IEC14496-3 amendment proposal	N2017
VM for MPEG-4 Audio ISO/IEC14496-3 amendment proposal	N2018
WD for MPEG-4 Audio ISO/IEC14496-5 amendment proposal	N2088
MPEG-4 Audio error resilience workplan update	N2020
MPEG Audio FAQs version 6	N2021
Proposals for the MPEG Audio web site content	N2022

2.5.2. the Audio Subgroup is aware that IM1 is developing applications that will allow pluggable decoders. The Audio subgroup has identified FhG, E-mu and NTT as contributors to this demonstration effort

2.5.3. to establish the following Ad-hoc groups:

Mandate		Meeting
Ad-hoc Group on MPEG-2 Audio AAC Conformance and Technical Report (Coleman/Thom/Lueck)	N2023	<i>no</i>
Ad-Hoc Group on MPEG-4 Audio CD and Reference Software CD progression (Grill/Purnhagen)	N2024	<i>yes</i>
Ad-Hoc Group on MPEG-4 Structured Audio (Scheirer/Ray)	N2025	<i>no</i>
Ad-Hoc Group on MPEG-4 Audio Verification tests (Edler/S-W Kim)	N2026	<i>no</i>
Ad-hoc group on MPEG-4 Audio tool complexity (Spille)	N2027	<i>no</i>
Ad-hoc group on MPEG-4 Audio/Systems issues (Teichmann/Herpel)	N2028	<i>no</i>

Ad-hoc group on MPEG-4 Audio/Systems reference model (Scheirer/Coleman)	N2029	<i>no</i>
Ad-hoc group on MPEG-4 Audio Conformance (Spille/Scheirer)	N2030	<i>no</i>
Ad-hoc group on MPEG-4 Audio error resilience for Version 2 (Dietz/Miki)	N2031	<i>yes</i>
Ad-Hoc group on MPEG Audio web site (Thom/Purnhagen)	N2032	<i>no</i>
Ad-hoc group on MPEG-2 AAC dynamic range control (Schreiner)	N1988	<i>yes</i>
Ad-hoc group on MPEG-4 CELP speech coding (Oomen)	N2019	<i>no</i>
Ad-hoc group on MPEG-4 profiles and levels (O'Connell/Brandenburg)	N2106	<i>yes</i>

2.5.4. to make publicly available the following documents :

title	number
Revised report on complexity of MPEG-2 AAC tools	N2005
MPEG-2 AAC stereo verification test results	N2006
MPEG Audio FAQs version 6	N2021
Audio contribution to San Jose Press statement	

2.6. The SNHC group recommends

2.6.1. To acknowledge commitment of named parties to contribute encoder software and fast/optimized decoder software to the IM1 Systems implementation software and integrate into the IM1 demo for SNHC functionalities.

2D Mesh	Un. of Rochester	P.v.Beek
FAP coder	Rockwell	H. Chen
Wireface	Lucent	E. Petajan
Miraface	Miralab/EPFL	I. Pandzic
FAT	AT&T	J. Osterman
FIT	Un. of Illinois	H. Tao

2.6.2. To support and approve SNHC parts of the studies of CD.

2.6.3. That the following ad hoc groups be established

N2065	AHG on FBA
N2067	AHG on 3D Model Coding
N2069	AHG on VM editing
N2071	AHG on SNHC FAQ editing

2.6.4. That WG11 approves the following output documents:

N2068	SNHC Verification Model 7.0
N2070	SNHC FAQs
N2063	Description of Core Experiments on Face Animation
N2064	Description of Core Experiments on Body Animation
N2066	Description of Core Experiments on 3D Model Coding

- 2.6.5. To release the SNHC VM version 7.0 for public distribution after a 2 week editing period.
- 2.6.6. To release the SNHC FAQ document (revision 2) for public distribution after a 2 week editing period.

2.7. The Test group recommends

2.7.1. to approve the following documents:

Workplan for formal verification tests on video error resilience	N2061
Results of pre-evaluation of content-based coding verification tests	N2074
MPEG-4 Audio verification test specifications- NADIB part	N2013
MPEG-4 Audio verification test specifications - speech part	N2014
MPEG-4 Audio: results of AAC and Twin VQ tool comparison	N2011
Report on the MPEG-2 AAC Stereo Verification Tests	N2006

2.7.2. to establish the following Ad Hoc groups:

Ad-hoc Group on MPEG-4 Audio Verification tests	B. Edler	N 2026
Ad-hoc Group on MPEG-4 Video Error Resilience Verification test	T. Miki	N 2062

2.7.3. to make public the following document:

Report on the MPEG-2 AAC Stereo Verification Tests	N2006
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2.7.4. to approve the following workplan for verification tests:

Date	Verification test
July '98	Narrow band audio broadcasting test Video error resilience test
October '98	Test of Music on Internet

2.8. The Implementation Studies group recommends

2.8.1. To invite NB comments on the inclusion of OBMC into the core profile.

2.8.2. To invite NB comments on the inclusion of SNHC CGD enabling place holders within the syntax of MPEG-4 version 1.

2.8.3. that increasing the number of inverse (video) quantization tables beyond the non-downloadable ones (MPEG-2, MPEG-4, H.263) to downloadable tables should only be considered if sufficiently motivated by application needs, given the possible large impact on the decoder complexity of non-fixed tables (e.g. non-controllable proliferation of quantization tables in a multiple VOP source scenario).

2.8.4. The approval of the following documents.

Description of Core Experiment on OBMC Complexity Evaluation	N2104
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2.8.5. to establish the following Ad Hoc groups:

Ad Hoc on Video Decoder OBMC Complexity Evaluation	Simon Winder	N2103
Ad Hoc on the video decoder Quality of Service	Dan Tamir	N2102
AHG on Computational Graceful Degradation (CGD)	Jan Bormans Marco Matteveli	N2101

2.9. The Liaison group recommends

2.9.1. the approval of the response to National Bodies (WG11 N2100)

2.9.2. the approval of the following liaison documents:

N2089	Liaison to DVB on High Level 4:2:2 Profile MPEG-2 Video
N2090	Liaison to JTC1/SC29/WG1 JPEG 2000
N2091	Liaison to Audio/Video Working Group of the 1394 Trade Association
N2092	Liaison to ETSI Project MTA
N2093	Liaison to CPT Working Group
N2094	Liaison to EBU/SMPTE Task Force for the Harmonization of Standards for Exchange of Program Material as Bit Streams
N2095	Liaison to ITU-T SG12 on Audio Tests
N2096	Liaison to MIDI Manufacturers Association
N2097	Liaison to ITU-T SG16 on Compatibility between MPEG-4 and H.263 Video
N2098	Liaison to CEN on progress in MPEG-7
N2099	Liaison to EBU/SMPTE on High Level 4:2:2 Profile MPEG-2 Video

2.9.3. to send the AAC stereo verification test results to ITU-T SG16, ITU-R 10C, EBU B/CASE, World DAB, DRM, NRSC, DAVIC, AES SC06-04, and DVD

2.10. The HoD group recommends

2.10.1. that meeting hosts provide to the HoDs a list of registrations before the end of the meeting such that new members can be identified and encouraged to join their National Body.

2.10.2. acceptance of the Guide for WG 11 meeting hosts as given in document WG11/N1985.

2.10.3. recommends acceptance of Guidelines for electronic distribution of MPEG and WG11 documents (N1979)

2.10.4. the workplan of MPEG-4 Version 1 to show FCD at March 1998, FDIS at October 1998 and IS at December 1998. The workplan for MPEG-4 Version 2 will show CD at December 1998, FCD at July 1999, FDIS at December 1999 and IS at February 2000.

2.10.5. approval of the meeting plan including

- the 43rd meeting in Tokyo over the period 16 to 20 March 1998 and acceptance of a meeting fee of approximately 35,000 (300US\$)
 - the 44th meeting in Dublin over the period 6 to 10 July 1998 and acceptance of a meeting fee of approximately US\$250.
 - the 45th meeting in Princeton, 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 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 Hawaii, USA over the period 6 to 10 December 1999
3. **WG11 approves the Disposition of Comments of 13818-1/FPDAM 5 (WG11 N) and the text of 13818-1/DAM 5 (WG11 N) and requests the Convenor to forward the documents to the SC29 Secretariat for further processing.**
 4. **WG11 approves the Disposition of Comments of 13818-4/DCOR 1 (WG11 N) and the text of 13818-4/COR 1 (WG11 N) and requests the Convenor to forward the documents to the SC29 Secretariat for further processing.**
 5. **WG11 approves the text of 13818-4/DCOR 2 (WG11 N1) and requests the Convenor to forward the documents to the SC29 Secretariat for further processing**
 6. **WG11 approves the text of 13818-6/PDAM 1 (WG11 N1) and requests the Convenor to forward the documents to the SC29 Secretariat for further processing**
 7. **WG11 would like to thank the companies and the individuals who have collaborated in the execution of the AAC Verification Tests, thus providing confirmation that the goal of achieving high quality at a bitrate of 64 kbit/s per channel as a task from July 1993 for the ‘NBC Enquiry’ has been successfully achieved. This represents the successful culmination of a significant amount of work with tremendous international collaboration.**
 8. **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				98/03	98/12	99/02
1/Amd 5	Systems-related table entries for AAC						98/04
4/Amd 1	AAC Conformance Testing					98/07	98/09
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							98/03

9. WG11 approves the MPEG-4 Requirements document (WG11 N).

10. WG11 approves

Study of MPEG-4 Systems ver. 1.0 CD	WG11 N2043
Study of MPEG-4 Visual ver. 1.0 CD	WG11 N
Study of MPEG-4 Audio ver. 1.0 CD	WG11 N
Study of MPEG-4 Reference Software ver. 1.0 CD	WG11 N
Study of DMIF ver. 1.0 CD	WG11 N

11. WG11 expresses its thanks to those individuals who have collaborated in the IM1 project to develop the MPEG-4 player. Noting that

- 1. the Systems layer software of the IM1 player is now at an advanced stage of development,**
- 2. the non-MPEG-4 media decoders used so far do not provide acceptable performance and**
- 3. the software of MPEG-4 part 5 is not suitable for operation in real time conditions on the target platform,**

WG11 requests that other members active in the Video, Audio and SNHC groups take an active role in this project. By 20 February 1998 IM1 will develop specifications that will make it possible to plug in external modules in executable form into the IM1 player. Members are invited to make available to the IM1 project audio, video and SNHC decoders, solely for the purpose of demonstration. For the time being assistance is requested to encode audio and video material to produce

interesting applications that demonstrate the potential of the MPEG-4 standard.

12. WG11 approves the verification test plan

Date	Verification test
July '98	Narrow band audio broadcasting test Video error resilience test
October '98	Test of Music on Internet

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

13. 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 reiterates its request to companies that have not yet produced such statements. Failure to produce patent statements on the part of companies that own patents necessary to implement the MPEG-4 standard may seriously harm the further progress of the MPEG-4 CD.

14. WG11 approves the Guidelines for the Version 2 VM/WD Procedure (WG11 N2037)

15. WG11 would like to thank the following companies and organisations that have submitted proposals to its call on MPEG-4 Intermedia Format

- 1. Apple Computer - IBM Corporation - Netscape Communication Corporation - Oracle Corporation - Silicon Graphics - Sun Microsystems**
- 2. AT&T - Columbia University**
- 3. AVID Technologies**
- 4. EBU/SMPTE Task Force**
- 5. Microsoft - Intel**
- 6. Thomson Multimedia**

WG11 is pleased to see that the new members drawn from the companies that have submitted have rapidly assimilated the MPEG spirit and are collaborating in the development of a fundamental component of the multimedia world that MPEG-4 is creating.

16. WG11 approves

MPEG-4 Systems VM	WG11 N2050
MPEG-4 Video VM	WG11 N

MPEG-4 Audio VM	WG11 N2018
MPEG-4 SNHC VM	WG11 N

17. WG11 approves

MPEG-4 Systems ver. 2.0 WD	WG11 N2049
MPEG-4 Visual ver. 2.0 WD	WG11 N
MPEG-4 Audio ver. 2.0 WD	WG11 N
MPEG-4 Reference Software ver. 2.0 WD	WG11 N
DMIF ver. 2.0 WD	WG11 N

18. WG11 approves the list of MPEG-4 version 2 editors

Part 1	Renaud Cazoulat, 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

19. WG11 approves the MPEG-4 workplan

Part	Title	C/P	WD	CD PDAM PDTR	FCD FPDAM FPDTR	FDIS FDAM DTR DCOR	IS AMD TR COR
MPEG-4							
1	Systems				98/03	98/10	98/12
2	Visual				98/03	98/10	98/12
3	Audio				98/03	98/10	98/12
4	Conformance Testing			98/12	99/07	99/12	00/02
5	Reference Software				98/03	98/10	98/12
6	DMIF				98/03	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

20. WG11 approves the MPEG-7 Applications document (WG11 N).

21. **WG11 approves the MPEG-7 Requirements document (WG11 N).**
22. **WG11 approves the MPEG-7 Draft Proposal Package Description (WG11 N).**
23. **An MPEG-7 seminar colocated with the Tokyo meeting will be held on 98/03/18. Adam Lindsay, Ibrahim Sezan, Masahiro Shibata, Thomas Sikora and Toby Walker are asked to organise the seminar.**
24. **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

25. **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				98/03	98/12	99/02
1/Amd 5	Systems-related table entries for AAC						98/04
4/Amd 1	AAC Conformance Testing					98/03	98/05
5/Amd 1	Revised MPEG-2 Simulation Software					98/03	98/05
6/Amd 1	DSM-CC				98/07	98/12	99/02
7/Cor 1						97/10	98/03
MPEG-4							
1	Systems				98/03	98/10	98/12
2	Visual				98/03	98/10	98/12
3	Audio				98/03	98/10	98/12
4	Conformance Testing			98/12	99/07	99/12	00/02
5	Reference Software				98/03	98/10	98/12
6	DMIF				98/03	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		98/10	99/07	00/03	00/07	00/12	01/2

26. WG11 approves its five-year meeting schedule

No	yy	mm	Dd	City	Country
43	98	03	16-20	Tokyo	JP
44	98	07	06-10	Dublin	IE
45	98	10	12-16	Princeton, NJ	US
46	98	12	07-11	Eilat	IL
47	99	03	15-19	?	KR
48	99	07	12-16	Vancouver	CA
49	99	12	06-10	?, HI	US

27. WG11 accepts the resignation of Paul Fellows from the chairmanship of the Implementation Study Group and thanks him for his services. Marco Mattavelli is appointed as Chairman of the said group.

28. WG11 updates its terms of reference (WG11 N2000)

29. WG11 is aware that the progress of high performance programmable processors is providing diverse opportunities to exploit MPEG standards and is of the opinion that more awareness must be created in organisations holding rights to Intellectual Property necessary to implement MPEG standards to support the development of the multimedia industry. A workshop will be organised in Tokyo colocated with the MPEG meeting but outside of its jurisdiction. The Convenor, assisted by Douglas Armati, Takuyo Kogure, Jack Lacy and Peter Schirling will organise the event.

30. WG11 approves its San Jose press release for publication on the MPEG home page (WG11 N1980).

- 31. The Convenor would like to express his thanks to Gianluca Depetris, Werner Oomen and Peter Schirling for their support in the preparation of the Friday Plenary.**
- 32. WG11 thanks Lockheed Martin Telecommunications for hosting its 42nd meeting, in particular Andrew Tescher, and the kind support of Julie Higgins and Valerie Ritacco of Preferred Inc.**

WG11 adjourned on 98/02/06 21:25