

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

ISO/IEC JTC1/SC29/WG11/**N2467**
MPEG 98
October 1998/Atlantic City, USA

Title: Description of MPEG-7 Content Set

Source: Requirements group

Status: Approved

The MPEG-7 content set is composed of three main categories: Audio (about 12 hours), Still images (about 7000 images) and Video (about 13 hours). The items in each category are described in the following sections. For further information on how to obtain this content set, please contact: Seungyup Paek (syp@ctr.columbia.edu) until November 1, 1998. Afterwards, please check <http://www.cselt.it/mpeg/> for an update.

This material is subject to the conditions in the licensing agreement, MPEG document N2466.

1 MPEG-7 Audio Content Set

For supplemental content, please refer to the Video Content Set, especially the music and entertainment category. It contains much Audio-visual material. Also of potential interest are items with monologues and dialogues in diverse languages.

Category	Item num.	Short description	Source	Duration (min)
Radio	A1	Radio news broadcast	Radio-France 98	600
Music	A2	"Two Ton Shoe" Rock album	Two Ton Shoe	39
	A3	Bruckner's Te Deum, and Mozart's Requiem	A. Lindsay	72
	A4	Original composition, a capella. Voice only	S. Lounis	5
Audio	A5	Short sequences of solo instrument and other sounds	SQAM CD	30
	A6	Pop song based on an A-A-C motif	Juergen Herre	5

2 MPEG-7 Still images Content Set

Category	Item num.	Short description	Source	~number of images
Color photo.	S1	Amateur Photos of landscapes, people.	Tristan Savatier	300
	S2	Photographs	Alejandro Jaimes	300
	S3	Images of varying scene and color content, many outdoor and indoor images	Department of Water Resources, California	2000
	S4	Indoor images of people, under varying lighting conditions and angles	Heinrich Hertz Institute	400

Grey-scale photo	S5	Photographs	JPEG 2000	250
	S6	Collection of print and digitized pictures	National Archives at Maryland	250
	S7	Photos from the beginning of the century	Portuguese Photo. Center	260
Trademark logo	S8	Trademark images captured by a scanner (B&W images)	Korean Industrial Property Office	3000
Aerial photo.	S9	Aerial photos, monochrome and colored (5000x5000 pixels)	UC Santa Barbara	30
3D Range image	S10	205 range images and 7 complete 3-D colour models	National Research Council	200

3 *MPEG-7 Video Content Set*

All items have been assigned to one of the three possible types: "Program", "Sequence" or "Shot". A "Program" is a piece of material of rather long duration which most of the time includes both the beginning and the end of the program. A "sequence" is a clip of a few minutes that has been extracted from a program. Finally, the "shot" type corresponds to either "program" or "sequences" where the list of editing effects (shot cut, fade, etc.) will be available. Finally, note that all video material is encoded in MPEG-1 format, except item V30.

Category	Type	Item num.	Short description	Source	Duration (min)
News	Shot	V1	Two complete TV news programs	Portuguese TV, RTP & SIC	60
	Sequence	V2	Universal newsreel collection. B&W video.	National Archives at Maryland	30
	Program	V3	Daily TV news program	Spanish TV, RTVE	29
		V4	Weekly TV news program	Spanish TV, RTVE	19
Drama / Movie	Sequence	V5	"Art" movie: Hallo	Christoph Rodatz, GMD	4
		V6	Movie: "La sombra de un cipres es alargada"	Spanish TV, RTVE	15
		V7	TV Drama series: "Pepa y Pepe"	Spanish TV, RTVE	15
	Program	V8	Sitcom (1 and 2)	Portuguese TV, RTP & SIC	60
		V9	Filmed theater: The playboy of the western world	INA	120
Documentary	Shot	V10	"Science Eye": Bridge construction	NHK	9
	Sequence	V11	5 clips of scientific documentaries	SFRS	25
		V12	Documentary about buildings	Lancaster Television	5
	Program	V13	Basic Ophthalmic Exam	Univ. of Tennessee	26
		V14	Educational video: "A way with waste" and "Animals have young"	Singapore Ministry of Education	25
		V15	Documentary about a village: "Santillana del Mar"	Spanish TV, RTVE	30
Sport	Sequence	V16	3 Sport Clips: Soccer, Cycling, Basketball	Spanish TV, RTVE	49
		V17	2 Sport clips: Basketball, Golf	Korean Broadcasting Station	20
	Program	V18	Soccer sequence	Samsung	45
Commercial	Sequence	V19	14 items of commercials in Korean	Samsung	7
Music video and games	Sequence	V20	Korea's pop singers' live music Show	Korean Broadcasting Station	10
		V21	TV quiz program: "Saber y ganar"	Spanish TV, RTVE	15
		V22	Music program: "Musica si"	Spanish TV, RTVE	15
	Program	V23	Variety Show. First 30 minutes of complete program	Portuguese TV, SIC	30
Cartoon and animation	Sequence	V24	5 Selected pieces of cartoons	D'Ocon Film Productions	12
	Program	V25	Harmony	Singapore Ministry of Education	12
		V26	Cartoon "Don Quijote de la Mancha"	Spanish TV, RTVE	15
Home video	Shots	V27	Edited home video	LG ERCA	34
Surveillance	Shots	V28	3 outdoors scenes	ETRI	9
		V29	5 video sequences taken from a bridge over a speedway	UCL	28
Miscellaneous	Shots	V30	MPEG4 test sequence (Bream, Children, Fish)	Matsushita	1

Detailed list of items:

Audio Items:

ITEM A1 Category: Radio broadcast news. Source: 98 Radio-France. MPEG contact: R. Ronfard, INA. Submission Item: 10 Description: One day from a special program broadcast from June 9th to July 13th, 1998. 17 hours a day, from 8:30 AM to 1:30 AM. Includes: 1. World cup matches 2. News bulletins in French 3. News bulletins in English, German, Spanish, Portuguese 4. Chronicles 5. Interviews 6. Magazines Associated Data: Transmission control lists have been input in an Excel data base. Size / Duration: 10 hours have been selected from an original material of 17 hours Format: Audio (mono) compression in MPEG-2, level 2, at 128 kbps, programs are segmented in files of 15 minutes	ITEM A2 Content Category: Music Source: Two Ton Shoe MPEG Contact: A. Lindsay, Riverland. Submission Item: 18 Short Description: "Two Ton Shoe" Rock album. Associated Data: None. Size or Duration: 38:18 Format: 44100Hz, 16-bit AIFF
ITEM A3 Content Category: Music Source: A. Lindsay MPEG contact: A. Lindsay, Riverland. Submission Item: 19 Short Description: Brussels Choral Society singing Bruckner's Te Deum, and Mozart's Requiem. Associated Data: None. Size or Duration: 72:03 Format: 44100Hz, 16-bit AIFF	ITEM A4 Content Category: Music. Source: S. Lounis MPEG contact: A. Lindsay, Riverland. Submission Item: 20 Short Description: Original composition, a capella. Voice only. Associated Data: French text. Size or Duration: 5 min Format: 48000Hz, 16-bit AIFF
ITEM A5 Content Category: Audio. Source: SQAM CD. MPEG contact: J. Herre, EBU/FhG. Submission item: 35 Short Description: Short sequences of solo instrument and other sounds Associated Data: / Size or Duration: 54 items (some tracks have sub-indices). No sequences are exceeding 640MB in length	ITEM A6 Content Category: Audio. Source: J. Herre MPEG contact: J. Herre, EBU/FhG. Submission item: 52 Short Description: Pop song based on an A-A-C motif Associated Data: / Size or Duration: One song (<5 min) in a variety of formats Format: MIDI, AIFF, MPEG Layer 2 Audio

Still image items:

ITEM S1 Content Category: Amateur photographs. Source: Tristan Savatier. MPEG contact: R. Ronfard, INA. Submission item: 24 Short Description: Amateur Photos of landscapes, people. Some nudity. Associated Data: Keywords May be provided on request for each picture. Size or Duration: 300 photographs Format: PhotoCD	ITEM S2 Content Category: Photographs. Source: Alejandro Jaimes. MPEG contact: Seungyup Paek, Columbia Univ. Submission item: 48 Short Description: General. Associated Data: None Size or Duration: ~300 images. Format: JPEG
ITEM S3 Content Category: Photographs. Source: Department of Water Resources, California MPEG contact: S. Krishnamachari Submission item: 50 Short Description: Images of varying scene and color content, many outdoor and indoor images. Images of same scene with different viewpoints. Many "similar" images that might come handy during evaluation. Associated Data: None Size or Duration: ~ 2000 images Format: JPEG	ITEM S4 Content Category: Photographs. Source: Heinrich Hertz Institute MPEG contact: Sylvie Jeannin, LEP. Submission item: 53 Short Description: Indoor images of people, under varying lighting conditions and angles Associated Data: None
ITEM S5 Content Category: Photographs. Source: JPEG 2000. MPEG contact: M. Zeug, Iterated. Submission item: 26 Short Description: Test images.	ITEM S6 Content Category: Photographs. Source: National Archives at Maryland. http://www.nara.gov/nara/menus/audvis.html MPEG contact: N. Nandhakumar, LG. Submission item: 28 Short Description: Collection of print and digitized pictures.
ITEM S7 Content Category: Photographs. Source: Portuguese Photograph Center. MPEG contact: J. Torres, INESCN. Submission item: 37 Short Description: Photos by Portuguese photographer from the beginning of the century. One of the pioneers of the cinema in Portugal. Some collections of photos are like a film and describe some sequence. Size or Duration: 260 images. <300 MB Format: JPEG	ITEM S8 Content Category: Subset of registered trademark images. Source: Korean Industrial Property Office. MPEG contact: M. Kim, ETRI. Submission number: 34 Short Description: All images are trade marks captured by a scanner. Size or Duration: 3000 images. 2.6 Mbytes. Format: TIFF
ITEM S9 Content Category: Aerial photographs. Source: B.S. Manjunath, UC Santa Barbara. MPEG contact: B.S. Manjunath, UC Santa Barbara. Submission item: 25 Short Description: Aerial photos, monochrome and colored. Associated Data: Associated data available for some of the images Size or Duration: 30 photos (each 5000x5000 pixels) Format: tiff	ITEM S10 Content Category: Range images. Source: National Research Council. MPEG contact: E. Paquet. Submission item: 1 Short Description: These images can be used not only as range images but also as generators for 2D images (e.g. same object under different lighting conditions) Size or Duration : 205 range images and 7 complete 3-

	Format:	D colour models (all scanned) VRML 1
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Video items:

ITEM V1 Source: RTP & SIC MPEG Contact: F. Pereira, IST. Submission item: 12A Short Description: Two daily News program Associated Data: List and timing of shots and semantics. Size or Duration: 2 * 30 mins	ITEM V2 Source: National Archives at Maryland. http://www.nara.gov/nara/menus/audvis.html MPEG Contact: N. Nandhakumar, LGERCA Submission item: 30 Short Description: Universal newsreel collection. B&W video, archive of news. Size or Duration: 30 mins
ITEM V3 Source: Spanish TV, RTVE. MPEG contact: P. Salembier, UPC. Submission item: 39A Short Description: Clip from daily program "Telediario" Size or Duration: 29 mins	ITEM V4 Source: Spanish TV, RTVE. MPEG contact: P. Salembier, UPC. Submission item: 39B Short Description: Clip from weekly program "Informe Semanal" Size or Duration: 19 min
ITEM V5 Source: Christoph Rodatz, GMD. MPEG Contact: F. Nack. Submission item: 2B Short Description: Hallo Associated Data: German text available, translation possible. Some composition. Size or Duration: 4 min	ITEM V6 Source: Spanish TV, RTVE. MPEG contact: P. Salembier, UPC. Submission item: 41 Short Description: "La sombra de un cipres es alargada". Associated Data: / Size or Duration: 15 mins.
ITEM V7 Source: Spanish TV, RTVE. MPEG Contact: P. Salembier, UPC. Submission item: 42 Short Description: Drama series titled "Pepa y Pepe". Size or Duration: 15 mins.	ITEM V8 Source: Portuguese TV, RTP & SIC. MPEG Contact: F. Pereira, IST. Submission item: 12B Short Description: 2 Sitcoms Associated Data: None. Size or Duration: 2*30 mins
ITEM V9 Source: INA. MPEG contact: R. Ronfard, INA. Submission item: 16 Short Description: The playboy of the western world, filmed for TV. French. Associated Data: Text available Size or Duration: Two hours.	ITEM V10 Source: NHK. MPEG Contact: M. Shibata, NHK. Submission item: 4 Short Description: "Science Eye" Scientific Video about bridge construction. Associated Data: Cuts, Japanese text overlays, narration text attached. Text descriptions (English) of cut-content will be attached. Size or Duration : 9 min
ITEM V11 Source: SFRS. MPEG Contact: P. Faudemay Submission item: 5 Short Description: 5 sequences from scientific movies (1) (1974) Lascaux pictures. French and English; (2) (1990) An island with flamingoes. French, English and Spanish; (3) (1979) Social life of Antelope. French; (4) (1973) Study on the Nyamgatoms tribe. French; (5) (1964) Scientific missions in the Kerguelen islands. French. Associated Data: 3 page script for each movie. Size or Duration: 5 * 5 min	ITEM V12 Source: Lancaster Television. MPEG Contact: E. Hartley, Lancaster Univ. Submission item: 7 Short Description: Show reel Associated Data: None.
ITEM V13	ITEM V14

Source: Univ. of Tennessee. MPEG Contact: S. Jeannin, LEP. Submission item: 8A Short Description: Basic Ophthalmic Exam. English. Associated Data: None. Size or Duration: 26 min	Source: Singapore Ministry of Education. MPEG Contact: V.V. Vinod. Submission item: 9BC Short Description: Educational Video. "A way with waste" and "Animals have young" Size or Duration : 16 min and 9 min
ITEM V15 Source: Spanish TV, RTVE. MPEG Contact: P. Salembier, UPC. Submission item: 45 Short Description: Clip of the video titled "Santillana del Mar" included in the TV serial "Los Pueblos. Espana a ras del suelo". Size or Duration: 30 mins.	ITEM V16 Source: Spanish TV, RTVE. MPEG Contact: P. Salembier, UPC. Submission item: 40 Short Description: Three clips of (1) Soccer: Spain vs. Sweden; (2) Cycling: "Vuelta a Espana"; (3) BasketBall: Real Madrid ag. Estudiantes Size or Duration: (1) 15 mins. (2) 19 min. (3) 15 min
ITEM V17 Source: Korean Broadcasting Station (KBS). MPEG Contact: S. Sull, Korea University. Submission item: 47A Short description: (1) Basketball game broadcast, korean comments; (2) Golf tournament broadcast Size or Duration: (1) 10 minutes; (2) 10 minutes	ITEM V18 Source: Samsung. MPEG Contact: Y. Choi, Samsung. Submission item: 15 Short Description: Soccer sequence. Size or Duration: 45 Min
ITEM V19 Source: Samsung. MPEG Contact: Y. Choi, Samsung. Submission item: 14 Short Description: 14 items of commercials in Korean Associated Data: Full transcript may be given. Additional semantics. Size or Duration: Each 30 sec.	ITEM V20 Source: Korean Broadcasting Station (KBS). MPEG Contact: S. Sull, Korea University. Submission item: 47B Short description: Korea's pop singers' live music Show Size or Duration: 10 mins
ITEM V21 Source: Spanish TV, RTVE. MPEG Contact: P. Salembier, UPC. Submission item: 43 Short Description: TV quiz program called "Saber y ganar" Size or Duration: 15 mins.	ITEM V22 Source: Spanish TV, RTVE. MPEG Contact: P. Salembier, UPC. Submission item: 44 Short Description: "Musica si". Size or Duration: 15 mins. Format: MPEG1.
ITEM V23 Source: Portuguese TV, SIC. MPEG Contact: F. Pereira, IST. Submission item: 12C Short Description: Variety Show. First 30 minutes of complete program. Associated Data: None. Size or Duration: ~30 mins	ITEM V24 Source: D'Ocon Film Productions. MPEG Contact: P. Salembier, UPC. Submission item: 32 Short Description: Selected pieces of cartoons. (soundtrack in Spanish and English) Size or Duration: 5 clips of 1-2 mins: 12 mins.
ITEM V25 Source: Singapore Ministry of Education. MPEG Contact: V.V. Vinod. Submission item: 9A Short Description: Educational Video: "Harmony " Size or Duration : 12 min	ITEM V26 Source: Spanish TV, RTVE. MPEG Contact: P. Salembier, UPC. Submission item: 38 Short Description: Cartoon "Don Quijote de la Mancha" Size or Duration: 15 mins.
ITEM V27 Source: LGERCA MPEG Contact: N. Nandhakumar, LGERCA Submission item: 22 Short Description: Edited home video. Associated Data: Ground truth information: location of scene cuts, pan, zoom, etc. Size or Duration: 17 mins each (approx), two files	ITEM V28 Source: ETRI MPEG Contact: K.W. Lee, ETRI. Submission item: 33 Short Description: Test material for surveillance. 3 outdoors scenes (different fixed cameras), people appearing / disappearing. Associated Data: semantic info on what's happening

		Size or Duration:	9 mins
ITEM V29		ITEM V30	
Source:	Universite Catholique de Louvain	Source:	Matsushita
MPEG Contact:	S. Jeannin, LEP.	MPEG Contact:	Taka Senoh, Matsushita.
Submission item:	49	Submission item:	46
Short Description:	5 video sequences taken from a bridge over a speedway. The camera watches the vehicles flow. Different luminance conditions are present.	Short Description:	Three "video object sequences" used as MPEG-4 test data: (1) Bream; (2) Children; (3) Fish
Associated Data:	A text file describing the global recording conditions, the description of the events present in the 5 sequences, the translation of pixel coordinates to real world 3D coordinates.	Associated Data:	Each sequence consists of a background still picture, an object with shape information and a caption
Size or Duration:	(1) 0'56"; (2) 8'47"; (3) 9'20"; (4) 4'59"; (5) 4'59"	Size or Duration :	(1) 60MB – 10 secs (2) 60MB– 10 secs (3) 30MB. – 10 secs
		Format:	Raw SIF format