

**Telecommunications and Information Exchange Between Systems**

**ISO/IEC JTC 1/SC 6**

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## ISO/IEC JTC 1/SC 29 N 10329

DATE: 2009-05-01

**ISO/IEC JTC 1/SC 29**  
**Coding of Audio, Picture, Multimedia and Hypermedia Information**  
**Secretariat: [Japan \(JISC\)](#)**

<b>DOC. TYPE</b>	Outgoing Liaison Statement	
<b>TITLE</b>	Liaison Statement from SC 29/WG 11 to JTC 1/SC 6 on Extended Call for Proposal on MPEG-V [SC 29/WG 11 N 10647, Attachment: WG 11 N 10526]	
<b>SOURCE</b>	ISO/IEC JTC 1/SC 29/WG 11	
<b>PROJECT</b>		
<b>STATUS</b>	In accordance with Resolution 14.1.2 taken at the 88th SC 29/WG 11 meeting, 2009-04-20/24, Maui, Hawaii, USA, the SC 29 Secretariat forwarded this liaison statement to JTC 1/SC 6. [Requested action: For SC 29's information]	
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**Liaison Statement from WG 11 to JTC 1/SC 6**

See the file below:

- File Name: [29n103291.doc](#)
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- File size: 39,936 bytes
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Attachment:

[SC 29/WG 11 N 10526](#): MPEG-V Extended Call for Proposals

**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 N10647**  
**Ka'anapali, Maui, USA, April 2009**

**Source**    **Convenor**  
**Title**     **Liaison letter to SC 6**  
**Status**    **Approved**

MPEG, a working group in ISO/IEC, has produced many important standards (MPEG-1, MPEG-2, MPEG-4, MPEG-7, and MPEG-21). MPEG feels that it is important to standardize intermediate formats and protocols for MPEG-V “Media Context & Control”. During the 88th MPEG meeting experts from the Systems subgroup have compiled the second version of the working drafts for Control Information, Sensory Information and Avatar Characteristics.

Based on the “MPEG-V Requirements Version 3.2” MPEG would like to be informed about (additional) technologies that satisfy these requirements, more specifically with respect to the following areas:

- Haptics & tactile: interfaces to technologies and representation of interfaces with the user through the sense of touch including the interfaces to devices which presents haptic contents,
- Emotions: capturing, representation and rendering of emotions,
- Virtual goods: (as associations of Avatars), like for instance clothing for the avatar, accessories carried by the avatar (jewelry, watches, ...), personal attributes the avatar can make use of (weapons, wallets, animations, ...), other objects: cars, house, furniture, ...), the ownership of virtual objects, rights and obligations associated to virtual goods, transfer the right of ownership (for instance after termination of a virtual identity or in case of multiple identities and the like).

MPEG invites SC 6 to disseminate this Call for Proposal within your community. Please note that responses should be submitted to our next (89<sup>th</sup>) meeting which will be held in London, United Kingdom from June 28 until July 3, 2009. Please contact Joern Ostermann ([ostermann@tnt.uni-hannover.de](mailto:ostermann@tnt.uni-hannover.de)) and or Young-Kwon Lim ([young@netntv.co.kr](mailto:young@netntv.co.kr)) for details on attending this meeting if you are not an MPEG delegate. The submissions shall be received by the 24<sup>th</sup> of June, 2009 23.59 hours GMT, by Joern Ostermann, chair of the MPEG Requirements sub-Group, ([ostermann@tnt.uni-hannover.de](mailto:ostermann@tnt.uni-hannover.de)) and Young-Kwon Lim ([young@netntv.co.kr](mailto:young@netntv.co.kr)), chair of the MPEG Systems sub-Group,.

Please refer to the (attached) MPEG-V Extended Call for Proposals, (ISO/IEC JTC 1/SC 29/WG 11 w10526) issued at the 88<sup>th</sup> MPEG Meeting in Ka'anapali, Maui, USA.

Attachment: ISO/IEC JTC 1/SC 29/WG 11 N 10526 (MPEG-V Extended Call for Proposals)

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

**ISO/IEC JTC 1/SC 29/WG 11/N10526  
April 2009, Ka'anapali, Maui, USA**

**Title:** MPEG-V Extended Call for Proposals  
**Source:** Requirements  
**Status:** Approved

## **Introduction**

MPEG, a working group in ISO/IEC, has produced many important standards (MPEG-1, MPEG-2, MPEG-4, MPEG-7, and MPEG-21). MPEG feels that it is important to standardize intermediate formats and protocols for MPEG-V “Media Context & Control” in the standardization areas Control Information and Sensory Information.

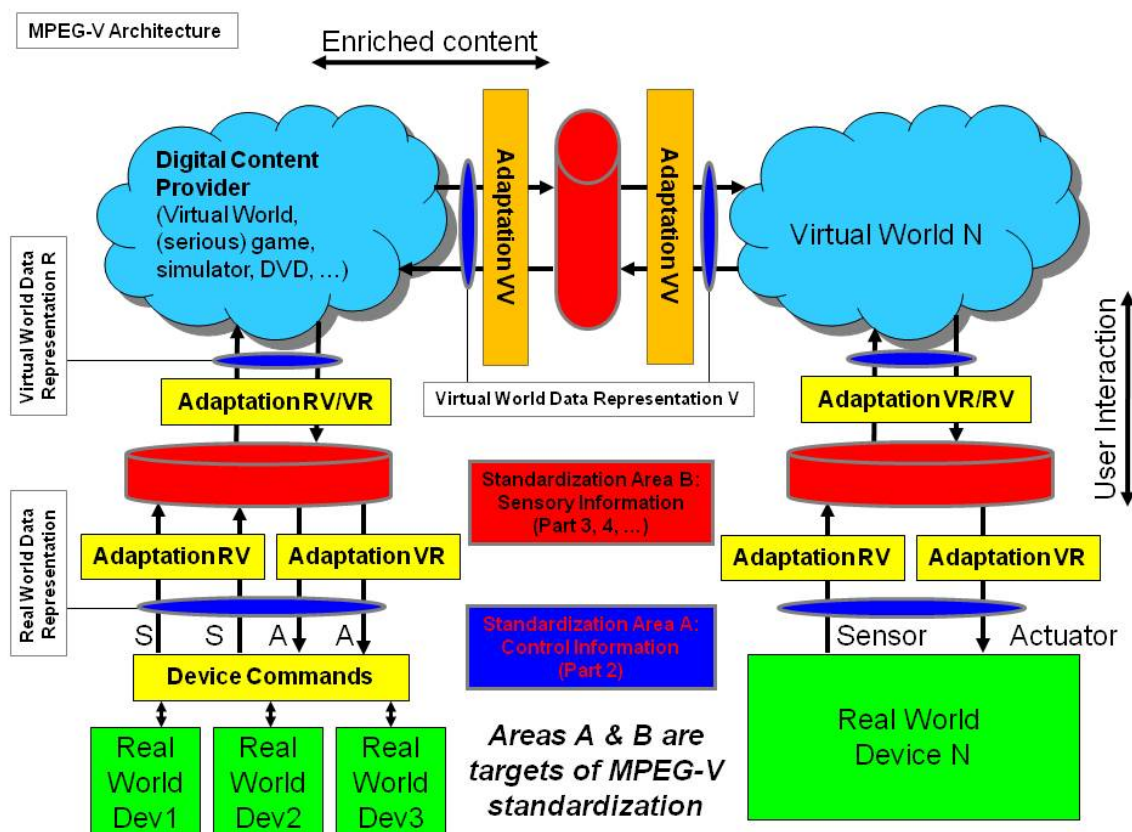
As stated in the w9424 “Information exchange with Virtual Worlds 'Context, Objectives and Use Cases” [1] the intended standard for ‘Information exchange with Virtual Worlds’ will address at least two areas of interest herein referred to as areas (see also the illustration below):

### **Standardization Area A: Control Information**

This area covers the information representation of the control information to and from devices in the physical world and into and from the virtual world. Examples of these representations are the representation of sensory input devices like smart vision systems, environmental and body sensors and the like and sensory output rendering devices like lights, heaters, fans, displays, speakers and the like.

### **Standardization Area B: Sensory Information**

This area covers the (bidirectional) information representation of information exchanged between the physical world and the virtual world as well as the information exchange between virtual worlds. Examples of these representations are the representation of haptic, emotion and avatar information.



MPEG has produced “MPEG-V Requirements Version 3.2” [2]. Based on these requirements MPEG would like to be informed about (additional) technologies that satisfy them, more specifically with respect to the following areas:

- Haptics & tactile: interfaces to technologies and representation of interfaces with the user through the sense of touch including the interfaces to devices which presents haptic contents,
- Emotions: capturing, representation and rendering of emotions,
- Virtual goods: (as associations of Avatars), like for instance clothing for the avatar, accessories carried by the avatar (jewelry, watches, ...), personal attributes the avatar can make use of (weapons, wallets, animations, ...), other objects: cars, house, furniture, ...), the ownership of virtual objects, rights and obligations associated to virtual goods, transfer the right of ownership (for instance after termination of a virtual identity or in case of multiple identities and the like).

Please note that the contributions can be related to all MPEG-V standardization areas.

All parties that believe they have relevant technologies for MPEG-V are invited to submit these technologies for consideration by MPEG.

Parties do not necessarily have to be MPEG members. The review of these requirements is planned in the context of the 89<sup>th</sup> MPEG meeting in London, United Kingdom. Please contact Joern Ostermann ([ostermann@tnt.uni-hannover.de](mailto:ostermann@tnt.uni-hannover.de)) and or Young-Kwon Lim ([young@netntv.co.kr](mailto:young@netntv.co.kr)) for details on attending this meeting if you are not an MPEG delegate. The submissions shall be received by the 24<sup>th</sup> of June, 2009 23.59 hours GMT, by Joern Ostermann, chair of the MPEG Requirements sub-Group, ([ostermann@tnt.uni-hannover.de](mailto:ostermann@tnt.uni-hannover.de)) and Young-Kwon Lim ([young@netntv.co.kr](mailto:young@netntv.co.kr)), chair of the MPEG Systems sub-Group, who will upload all proposals both by MPEG and non MPEG members to the MPEG site after the submission deadline.

## Requirements for the proposals

Parties submitting a response shall provide:

1. A detailed description about the technologies they propose for MPEG-V
2. A table indicating which requirements are met (or not) and how. If a requirement does not meet, is not met, proponents shall indicate the reasons.
3. Comments on the completeness and appropriateness of the requirements presented in “MPEG-V Requirements Version 3.2” [2].

## Evaluation Procedure

MPEG will evaluate the proposals against the objectives and requirements as set forth in the MPEG-V requirements. Where proponents provide comments on these requirements, these comments may be taken into consideration but proponents should be aware that the current requirements represent the considered view of MPEG. Parts of these requirements are already incorporated in the RoSE Requirements [3] and are reflected in the MPEG-V RoSE Working Drafts “Control Information” and ‘Sensory Information’ [5,6] with the distinction that RoSE focuses on unidirectional communication towards the Real world only, while MPEG-V addresses both directions in an interactive manner see also [4,7]. In general MPEG does not solicit for technologies that have already been addressed by open standards (e.g. MPEG for compression), or ongoing in MPEG, as MPEG-V will refer to these technologies when appropriate.

As evaluations will be based on the discussions and consensus among the experts participating evaluation meeting, MPEG invites proponents to present their proposals at the above mentioned meeting and to participate in discussions about proposals. The evaluation will take the following (not necessary complete) evaluation criteria into account: Completeness, Extensibility, Simplicity, Effectiveness, Flexibility and Scalability.

The evaluation is intended to lead to selecting and/or developing a specification based upon the responses to this Call. However, MPEG reserves the right to adopt none, one, or a combination of several proposals as well as to issue another call for proposals. All decisions will be made by consensus of the MPEG committee.

Proponents are advised that, upon acceptance by MPEG for further evaluation, MPEG may require that certain parts of the technology be made available in source code for inclusion in the Reference Software. Commitment to provide the software under the usual terms adopted by MPEG in its standards is required. If proponents consider that any aspects of their technologies should not be made available in source code they shall clearly state which aspects and why.

## Preliminary time Schedule

2009/06/24	Proposals due
2009/06/28	Evaluation of proposals (in an Ad Hoc Group meeting)

## References:

- [1] Information exchange with Virtual Worlds 'Context, Objectives and Use Cases', (ISO/IEC JTC 1/SC 29/WG 11 w9424) issued at the 82<sup>nd</sup> MPEG Meeting in Shenzhen, China.

- [2] MPEG-V Requirements Version 3.2 (ISO/IEC JTC 1/SC 29/WG 11 w10498) issued at the 87<sup>th</sup> MPEG Meeting in Lausanne, Switzerland.
- [3] RoSE Requirements (ISO/IEC JTC 1/SC 29/WG 11 w9898) issued at the 84<sup>th</sup> MPEG Meeting in Geneva, Switzerland.
- [4] MPEG-V Working Draft “MPEG-V Architecture” Version 2 (ISO/IEC JTC 1/SC 29/WG 11 w**10616**) issued at the 88<sup>th</sup> MPEG Meeting in Ka’anapali, Maui, USA.
- [5] MPEG-V Working Draft “Control Information” Version 2 (ISO/IEC JTC 1/SC 29/WG 11 w**10617**) issued at the 88<sup>th</sup> MPEG Meeting in Ka’anapali, Maui, USA.
- [6] MPEG-V Working Draft “Sensory Information” Version 2 (ISO/IEC JTC 1/SC 29/WG 11 w**10618**) issued at the 88<sup>th</sup> MPEG Meeting in Ka’anapali, Maui, USA.
- [7] MPEG-V Working Draft “Avatar Characteristics” Version 2 (ISO/IEC JTC 1/SC 29/WG 11 w**10619**) issued at the 88<sup>th</sup> MPEG Meeting in Ka’anapali, Maui, USA.