

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

ISO/IEC JTC1/SC29/WG11 N9894
Archamps, FR – April 2008

Title: Call for Proposals on MPEG eXtensible Middleware (MXM)
Source: Requirements
Status: Approved

1 Introduction

The objective of this Call for Proposal (CfP) is to invite submissions that MPEG can use to develop a standard middleware that enables the easy design and implementation of media-handling value chains whose devices interoperate because they are all based on the same set of technologies accessible from the MPEG eXtensible Middleware (MXM).

To be eligible for consideration Proposals must satisfy the technical requirements expressed in N9893, output document of the 84th MPEG Meeting, and other requirements provided in Annex A and submitted as described in Annex B. As MPEG wishes to be made aware of possible submissions in order to assign appropriate meeting time, those intending to submit a Proposal are requested to send the form in Annex C by 2008/07/01.

All Proposals received by the deadline of 2008/07/15 shall be evaluated during the 85th MPEG meeting to be held in Hannover (Germany) on 2008/07/21-25. The overriding criteria for acceptance of submissions will be their ability to satisfy the requirements contained in both N9893 and this document.

It is expected that a single technical solution conforming with the requirements will be selected for further development of the MXM standard by MPEG or parts of several submissions conforming with the requirements will be identified at the 85th MPEG meeting for integration in the MXM standard.

The MXM standard will then be developed according to the ISO/IEC process (see chapter 2). However, in order to collect a broader set of comments and start building a broader user community, MPEG plans to develop MXM as an Open Source Software (OSS) project through its usual process of ad hoc groups open to external participation. The MXM Reference Software Licence (see Annex D) is adopted to enable ISO/IEC to eventually release the MXM Reference Software as OSS, i.e. with a licence approved by the Open Software Initiative (OSI).

2 Timeline

MPEG plans to develop the MXM standard according to the following schedule:

Year	Month	Day	MPEG mtg	City	Country	Stage
2008	05	02	84	Archamps	FR	Approval of CfP
	07	01				Proposal registration
	07	15				Proposal submission deadline
	07	20	Hannover	Proposal presentations at AHG		
	07	25	85	Hannover	DE	Approval of WD
	10	17	86	Busan	KR	Approval of CD
2009	04	24	88	TBD		Approval of FCD
	10	30	90	Xian	CN	Approval of FDIS

3 Source Code and IPR

Proponents are advised that, upon acceptance by MPEG for further evaluation, MPEG requires that certain parts of any technology proposed be made available in source code format for inclusion in the appropriate standard. Commitment to provide such software will be required. If proponents consider that any aspect of their technology should not be made available in source code, then they shall clearly state at the time of submission which aspects may not be submitted and why.

Furthermore, proponents are advised that this Call is being made under the auspices of ISO/IEC, and as such, subject to the ISO/IEC Intellectual Property Rights Policy as approved by the ISO and IEC councils in 1994 (see attachment iso_iec_ipr_policy.doc). Because of the unique nature of the process that MPEG expects to put in place to develop this standard, proponents who feel the need to clarify the general ISO/IEC IPR policy should state the reasons for such a need.

4 Contact Person

Prof. Dr.-Ing. Joern Ostermann
[Institut fuer Informationsverarbeitung](#)
Leibniz Universitaet Hannover
Appelstr. 9A
30167 Hannover
Germany
ph: ++49 511 762 5316
fax: ++49 511 762 5333
email: ostermann@tnt.uni-hannover.de

5 References

[1] Open Source Initiative, <http://www.opensource.org/>

6 Acronyms

Acronym	Full expression
AHG	Ad hoc group

CD	Committee Draft
CfP	Call for Proposal
FCD	Final Committee Draft
FDIS	Final Draft International Standard
IPR	Intellectual Property Rights
MXM	MPEG Extensible Middleware
OSI	Open Source Initiative
OSS	Open Source Software
WD	Working Draft

Annex A – Requirements for Proposal submission

Proposals shall contain the following:

1. A document containing (mandatory)
 - a. Identification of which requirements are satisfied;
 - b. Identification of which requirements are not satisfied and suggested ways by which MPEG could obtain the corresponding technology/ies;
 - c. Identification of additional requirements the Proponent believes the MXM standard should support;
 - d. Evidence regarding the degree of integration of the proposed solution with ISO/IEC 23004 – MPEG Multimedia Middleware (M3W);
 - e. Human-readable specification of the proposed solution;
 - f. Identification of any known implementation of the solution;
 - g. Statement of readiness to submit the reference software for the technologies accepted by MPEG for inclusion in the MXM standard by the beginning of the 86th MPEG meeting;
 - h. Statement of readiness to assign ISO rights to the MXM Reference Software to enable it to release the said Reference Software as per MXM Reference Software Licence (Annex D)
2. A demonstration of the proposed solution (optional)

Annex B– General Submission Information

Registration:

Respondents shall express their intention to participate in this Call for Proposals by sending a completed registration form as given in Annex D to Mr. Olivier Avaro, Systems Chair (olivier.avaro@streamezzo.com) by 2008/07/01.

Documentation:

Submit your Proposal 2008/07/15 via email to Mr. Olivier Avaro, Systems Chair. This document shall give all information requested. All documents received will be uploaded by the Systems Chair to the MPEG document facility as an input document to the 85th MPEG meeting in Hannover.

Participation:

It is advisable for proponents to attend the 85th MPEG meeting in person in order to allow effective discussions on Proposal details. Non-MPEG respondents will be allowed to participate in this meeting.

Who can attend:

This activity is open to interested parties who wish to contribute with inputs both in terms of technical solutions and application requirements.

Please note that regular participation to MPEG meetings is subject to ISO/IEC Directives and any additional National Body requirements, in particular accreditation by ISO/IEC JTC/SC29 National Bodies in order to attend MPEG meetings. Details about how to obtain such accreditation and other general information are provided at <http://mpeg.chiariglione.org/>. Further information may be obtained from the contact persons.

Annex C – Registration Form

Note: this form shall be sent by those intending to submit a proposal. Its submission does not engage the prospective proposer to actually submit a Proposal.

Company:	
Contact name:	
Address:	
Phone number:	
Fax:	
Email:	
Title of submission:	
Abstract:	
Completeness of submission (circle as applicable)	Complete Solution Partial solution

Date:

Name:

Annex D – MXM Reference Software Licence

Continuing its tradition designed to foster use of its standards MPEG plans to make the MXM Reference Software generally available to the industry. In order to seek acceptance of the MXM licence as an Open Source Software licence by the Open Source Initiative (OSI), MPEG intends to adopt this specific version of the MPEG copyright disclaimer for MXM:

This software module was originally developed by <FN1> <LN1> (<CN1>) and edited by <FN2> <LN2> (<CN2>), <FN3> <LN3> (<CN3>)¹, ... in the course of development of the MXM standard for reference purposes and its performance may not have been optimized.

This software module is an implementation of one or more tools as specified by the MXM standard. ISO/IEC gives users free license to this software module or modifications thereof for use in products. ISO/IEC gives users the same free license to this software module or modifications thereof for research purposes and further ISO/IEC standardisation.

Those intending to use this software module in products are advised that its use may infringe existing patents.

ISO/IEC have no liability for use of this software module or modifications thereof.

<CN1> retains full right to modify and use the code for its own purposes, assign or donate the code to a third party.

This copyright notice must be included in all copies or derivative works.

Copyright © ISO/IEC 200_.

MPEG expects that the final text of the MXM Reference Software licence will be an edited version of the above to comply with the usual format of OSI licences.

¹ NB: <FN> = First Name, <LN> = Last name, <CN> = Company Name