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09 December 2005

Paul S Eastman  
RF Networks  
10201 N. 21st Ave., #9  
Phoenix, AZ 85021  
p.eastman@computer.org

Re: P1599 - Definition of a Commonly Acceptable Musical Application Using the XML Language

Dear Paul:

I am pleased to report that on 07 December 2005 the IEEE-SA Standards Board approved the extension request of the above-referenced project until 31 December 2008.

If you should have any further questions, please contact me at 732-562-6367 or by email at [j.haasz@ieee.org](mailto:j.haasz@ieee.org).

Sincerely,

Jodi Haasz  
Program Manager  
International Stds Programs and Governance  
Standards Activities  
Phone +1 732 562 6367  
FAX +1 732 875 0695  
Email: [j.haasz@ieee.org](mailto:j.haasz@ieee.org)

CC: [susan.land@ngc.com](mailto:susan.land@ngc.com), [haus@dsi.unimi.it](mailto:haus@dsi.unimi.it), [denis.baggi@supsi.ch](mailto:denis.baggi@supsi.ch)

# IEEE-SA Standards Board Extension Request

## Revised 23 June 2004

1. Date of Request: 7-Oct-05
2. Assigned Project Number: P1599
3. Project Title: Definition of a Commonly Acceptable Musical Application Using the XML Language
  - a. Name of Working Group (WG): Music Application of XML
  - b. Name of Working Group Chair: Denis Baggi
  - c. Name of Sponsoring Society and Committee: IEEE CS SAB
  - d. Name of Sponsoring Committee Chair: S. Kathy Land
4. Contact Information (Contact should be the person who will answer any questions concerning this extension request):
  - a. Name: Denis Baggi
  - b. Telephone: +41 75 327 53 41
  - c. FAX: +41 57 666 66 20
  - d. EMAIL: denis.baggi@supsi.ch
5. Statement of why an extension is required. This should include a description of what the working group has accomplished and what remains to be accomplished, along with the reasons why the work was unable to be completed in the allotted timeframe

This writing consists of two parts: I. what has been achieved, II. what remains to be done

### I. WHAT HAS BEEN ACHIEVED

It can be stated that this project is a **SUCCESS STORY**, in regard to management, involvement of other bodies and recognition. Wherever results have been presented, with the **DEMO**, they have created considerable interest. We thank the IEEE CS SAB for its sponsorship and constant support..

The Demo is based on a complete technical version of the standards.

#### I.1. STRONG CONTACT WITH THE WORKING GROUP

This has been achieved thanks to:

- a) Formal WG meeting at the IEEE Conference MAX 2002: Musical Applications Using XML (see below)
- b) since 2003, we have met 3 times in teleconferences and once in person every year - i.e., 4 meetings per year
- c) we have had intense exchange of e-mail (average once a week) with involved developers
- d) personal visits by the WG chair: Milan, Italy (University); Tucson, Arizona (U.Virginia); California (Google, Recordare, Peakdesign); Sydney, Australia (PESI); Tokyo, Japan (TDK)

## I.2. PUBLIC LECTURES, CONFERENCES, ETC.

- a) IEEE Conference MAX 2002: Musical Applications Using XML, Milan, Sept.19-20, 2002, with contributions from the whole world
- b) Poster at the IMS Forum, Cernobbio, Italy, May 14, 2004
- c) "Intelligent Manufacturing of e-Music", IMS meeting, Gold Coast, Australia, Nov.9, 2004
- d) "Standard for Symbolic Music", CERN, Geneva, Jan.16, 2005
- e) "Standard for Symbolic Music", Poster, European Commission, launch of Call 2.5.10, Luxembourg, June 16, 2005
- f) periodic six-monthly reports to the IEEE CS SAB and TAB meetings, since 2002, included in the minutes of the meetings
- g) paper accepted at the EWIMT international conference, London, Nov.03, 2005
- h) WEB page created for the Computer Society Standards Web page, June 2004, referred to as link by the IMS site
- h) meeting with the ISO/TEC JTC1/SC29/WG11, Milan, Oct.2004
- i) a DEMO HAS BEEN BUILT to standard specifications

## I.3. INTERNAL SA DOCUMENTS

- a) Informal draft, 2003, presented at the SAB meeting
- b) First formal draft, May 2005, approved by the Working Group, copy sent to the SA via Edward Rashba

## I.4. INTERNATIONAL FINANCIAL SUPPORT

Note: IMS, Intelligent Manufacturing Systems ([www.ims.org](http://www.ims.org)), is an international, global funding agency for projects.

- a) Abstract accepted in August 2002
- b) Proposal for a feasibility study submitted in 2003, accepted in 2004 with financing
- c) Full proposal submitted in May 2005, evaluation pending
- d) Project "Jazz Sesamus" submitted to the European Commission, Bruxelles, March 2005
- e) Project "MUZPREZ" submitted to the European Commission, Bruxelles, September 2005

## I.5. RECOGNITION AND INTEREST BY PRIVATE COMPANIES AND PUBLIC INSTITUTIONS

- a) Google, Mountain View (Winnie Lam, Luis Zorzella), with presentation of the demo, June 2005
- b) ST Microelectronics, Paris/Milan (Andrea Vitali)
- c) Sony CRL, Paris (Francois Pachet)
- d) Ricordi, Milan (house of the largest and most antique collection of music scores; Cristiano Ostinelli)
- e) Ministry of Cultural Goods and Activities, Rome (Mario Del Bello)
- f) Conservatorio "Giuseppe Verdi", Milan (Marcello Sorce Keller)
- g) IRCAM, Paris (Jerome Bathelemy)
- g) University of Virginia, Digital Library (Perry Roland)
- h) Laurentian University, Montreal (Kaldrum Passi)
- i) Pacific Engineering Systems International, Sydney (Damian McGuckin)
- j) Peakdesign, Oakland (Tony Milosz)
- k) Kanazawa Institute of Technology, Tokyo (Tosiyasu L. Tunjii)
- l) University of Aizu, Aizu, Japan (Michael Cohen)

m) ISO-MPEG Standards Group (Giorgio Zoia)

## II. WHAT REMAINS TO BE DONE

The strategy for this project consists of the following steps.

### II.1. SOLVE THE TECHNICAL PROBLEMS FIRST

The initial approved draft is currently being checked for completeness, consistency and suitability by industry participants. The informative introduction needs to be reworked to better explain: what is meant by "symbolic music", the standard that goes with it, and the innumerable applications this will be generated (the technical problems have been solved almost in their totality). It is far better to **HAVE A DEMO THAT SHOWS THE POWER OF THE STANDARD**. This demo, based on a complete technical version of the standard, has been realized in 2005 and shown, among others, at the SAB and TAB meetings in June 2005.

### II.2. CONSOLIDATE THE WORKING GROUP WITH IMPORTANT COMPANIES

The process has started almost at the beginning, but has had some hiccups. For instance, Microsoft was initially interested, but later stated that this open, non-binary standard conflicts with its strategy of project JUNO and their Windows Media Player, all binary. Other companies (e.g., TDK), who had originally participated in a project reported in IEEE COMPUTER (see Haus, G., "Rescuing La Scala's Audio Archives", IEEE COMPUTER, 31(3), pp.88-89, 1998), have withdrawn for various internal reasons.

The process has restarted, notably with Google and ST Microelectronics (see Paragraph I.5. above), but **IT IS NOT COMPLETE**. Possible assistance from the IEEE SA, and from the various IMS Secretariats, would be appreciated.

If absolutely necessary, the standard could be presented to balloting as is, but we need some more time to **STRENGTHEN THE IMPACT OF THE STANDARD**.

80% of the Draft is stable and nearly 100% of the technical material.

Therefore, in spite of the progress accomplished, **AN EXTENSION OF 3 YEARS IS REQUESTED**.

## 6. History

- a. What date was the PAR first approved? 27-Sep-01
- b. What date did you begin writing the first draft? 15-Oct-02
- c. How many people are actively working on the project? 25
- d. How many times a year does the working group meet:
  1. In person? 1
  2. Via teleconference? 3
- e. How many times a year is a draft circulated to the working group via electronic means? 2

## 7. Document Progress

- a. What percentage of the Draft is stable? 80%
- b. How many significant work revisions has the Draft been through? 2

## 8. Project Plan

**(Item #8a is only for projects that have been balloted. If your draft has not yet gone to ballot, please go to Item #8b)**

a. Balloting History - Provide history of all IEEE Sponsor ballots under this project::

1<sup>st</sup> Ballot Close date (or scheduled close):

1<sup>st</sup> Ballot Draft Number:

1<sup>st</sup> Ballot results (% affirmative, %negative, %abstain):

2<sup>nd</sup> Ballot Close date (or scheduled close):

2<sup>nd</sup> Ballot Draft Number:

2<sup>nd</sup> Ballot results (% affirmative, %negative, %abstain):

(Add additional entries for ballots as needed):

When do you estimate that the final IEEE Sponsor ballot will be completed?

When do you expect to submit the proposed standard to RevCom?

**b. For projects that have not yet begun Sponsor ballot, please answer the following:**

When will IEEE sponsor balloting begin? 30-Jun-07

When do you estimate that the final IEEE Sponsor ballot will be completed? 30-Jun-08

When do you expect to submit the proposed standard to RevCom? 31-Aug-08

9. Future Adoptions

- If this is a new document, will it be adopted (in part or in whole) by another national, regional or international organization? Yes If yes, which organization? ISO
- If this is a revision of an existing document, has this document been adopted by the IEC, ISO, ETSI, SCC, etc? No If yes, which organization?

10. Additional Extensions

a. Is this the first request for an extension? Yes (If yes, please do not go any further. You have completed the form.)

b. If not, when was the previous extension approved?

After completion of this form, please e-mail this to the NesCom Administrator at nescom-admin@ieee.org. Confirmation of submittal will be sent on receipt of this request.

**Jodi Haasz**  
09/28/01 08:17 AM

To: lowell.johnson@unisys.com  
cc: d.baggi@computer.org, haus@dsi.unimi.it  
Subject: P1599

28 September 2001

Lowell Johnson  
Unisys Corporation  
167 32nd Avenue NW  
New Brighton, MN 55112

Re: P1599 Definition of a Commonly Acceptable Musical Application Using the XML Language

Dear Lowell:

I am pleased to inform you that on 27 September 2001 the IEEE-SA Standards Board approved the above referenced project until December 2005. A copy of the file is attached in .pdf format.

**Now that your project has been approved, please forward a roster of participants involved in the development of this project. This request is in accordance with the IEEE-SA Operations Manual, Clause 5.1.2f under *Duties of the Sponsor* which states:**

**"Submit annually to the IEEE Standards Department an electronic roster of individuals participating on standards projects"**

**Attached is an Excel spreadsheet for your convenience. Please forward this list to me via e-mail at [j.haasz@ieee.org](mailto:j.haasz@ieee.org) no later than 1 December 2001.**

At the bottom of this e-mail, please find URLs which you may find useful in the development of your proposed standard and in submitting your final draft for approval. We strongly recommend that a copy of your draft be sent to this office for review prior to the final voting by the working group to allow for a quick review by the editorial staff before sponsor balloting.

If you should have any further questions or would like to receive this information in paper, please contact me at 732-562-6367 or by email at [j.haasz@ieee.org](mailto:j.haasz@ieee.org).

Sincerely,

Jodi Haasz  
Senior Administrator  
IEEE-SA Governance and Electronic Processes

PS - The information in the .pdf file is viewable in Adobe Reader, version 3.0 or higher. If you do not have this software, please go to <http://www.adobe.com/prodindex/acrobat/readstep.html#reader> to download the free version.

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Standards Process-at-a-Glance  
<http://standards.ieee.org/resources/glance.html> - A quick-reference site useful to any standards developer.

IEEE Standards Style Manual  
<http://standards.ieee.org/guides/style/index.html> - Guidelines that establish style and format requirements for the preparation of proposed IEEE standards.

IEEE Standards Companion

<http://standards.ieee.org/guides/companion/index.html> - An overall view of the standards process; what to do, what to avoid, lessons learned, and sample forms.

#### Implement Plan for Metric Policy 9.20

<http://standards.ieee.org/announcements/metric.html> - Information on when, why and how the plan will be implemented and what exceptions exist.

#### Leading a Standards Development Group

<http://standards.ieee.org/faqs/ltpres.html#q1> - A free training session offered by staff to make the most of the standards process. After attending, you will have a great understanding of

- the need for due process and consensus
- how to submit PARs and Drafts
- the "legal" aspects (copyrights, trademarks, patents)
- how staff can help you

#### Standards Coordinating Committee 10

<http://standards.ieee.org/faqs/SCC10.html> - An explanation of the importance of coordinating with the IEEE Dictionary (SCC10) as is mandated on the PAR form.

#### Balloting Information

[http://standards.ieee.org/resources/glance\\_at\\_balloting.html](http://standards.ieee.org/resources/glance_at_balloting.html)

#### Standards Development Solutions

<http://standards.ieee.org/sds/index.html>



Sample Roster.xls



1599.pdf

Jodi Haasz

Senior Administrator

IEEE-SA Governance and Electronic Processes

Standards Activities

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# PAR FORM

09/25/01

**PAR Status:** New PAR

**1. Sponsor Date of Request:** 07/27/2001

**2. Assigned Project Number:** 1599

**3. PAR Approval Date:** 09/27/2001

**PAR Signature Page on File:** Yes

**4. Project Title and Working Group/Sponsor for this project Document type and title:**

**Document type:** Recommended Practice for

**Title:** Definition of a Commonly Acceptable Musical Application Using the XML Language

**Name of Working Group (WG):** XML Musical Application

**Name of Official Reporter:** Goffredo Haus

**Telephone:** 390258356222

**FAX:** 390258356373

**Email:** haus@dsi.unimi.it

**Name of Working Group Chair:** (if different than Reporter) Denis Baggi

**Telephone:** +41-916108991

**FAX:** +41-916108970

**Email:** d.baggi@computer.org

**Name of Sponsoring Society and Committee:** C/SAB

**Name of Sponsoring Committee Chair:** Lowell G Johnson

**Telephone:** 651-635-7305

**FAX:** 651-635-7523

**Email:** lowell.johnson@computer.org

**Name of Liaison Rep.(If different than Sponsor Chair):**

**Telephone:**

**FAX:**

**Email:**

**5. Type of Project:**

**5a. Is this an update to an existing PAR?** No

**5b. The project is a:** The project is a new standard

**6. Life Cycle:** Trial Use

**7. The type of ballot is:** Mixed Sponsor Ballot

**Expected Date of Submission for Initial Sponsor Ballot:** 09/30/2004

**8. Fill in Projected Completion Date for Submittal to RevCom:** 9/30/05

### **9. Scope of Proposed Project:**

This project will develop an XML application defining a standard language for symbolic music representation. The language will be a meta-representation of music information for describing and processing said music information within a multilayered environment, for achieving integration among structural, score, MIDI, and digital sound levels of representation. Furthermore, the proposed standard should integrate music representation with already defined and accepted common standards. The standard will be accepted by any kind of software dealing with music information, e.g. score editing, OMR systems, music performance, musical databases, and composition and musicological applications.

### **10. Purpose of Proposed Project:**

There is currently no defined, independent standard for representing music information that can describe and process all the different layers which characterize music information. For each layer of music information, there is one or more accepted standards (e.g. MIDI for performances, NIFF for notation and so on) and/or one or more proprietary formats. None of them can be suitably applied to other layers. This standard will make easier the integration, interchange, and translation from one layer to another of music information across different applications and even for different users.

### **11. Intellectual Property**

**Has the sponsor reviewed the IEEE Patent policy with the Group?** Yes

**Are you aware of the possibility of any copyrights relevant to this project?** No

Are you aware of the possibility of any trademarks relevant to this project? No

Are you aware of possible registration of objects or numbers due to this project? No

12. Are you aware of other standards or projects with a similar scope? No

13. Will this standard (in part or in whole) be submitted to an international organization for consideration/Adoption? Yes

If yes, please answer the following question:

Which International Organization/Committee? JTC1

International Contact Information:

14. Is this project intended to focus on health, safety environmental issues? No

15. **Mandatory Coordination:** SCC10 (IEEE Dictionary) by Circulation of Drafts  
IEEE Staff Editorial Review by Circulation of Drafts  
SCC14 (Quantities, Units and Letter Symbols) by Circulation of Drafts

16. **Additional Explanatory Notes:(Item Number and Explanation)**