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Information technology — Coding of audio-visual objects

Part 5: **Reference software**

AMENDMENT 11: MPEG-J GFX Reference iTeh STsoftwareRD PREVIEW

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Technologies de l'information — Codage des objets audiovisuels

ISOPartie 52 ogiciel de référence https://standards.iteh.ai/catalog/standards/sist/fa903cac-88a9-4268-9f3f-6da6fe5fdfa//so-RCEMENT_512004 ogiciel de référence MPEG-J GFX



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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

Amendment 11 to ISO/IEC 14496-5:2001 was prepared by Joint Technical Committee ISO/IEC JTC 1, Information technology Subcommittee SC 29, Coding of audio, picture, multimedia and hypermedia information.

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Information technology — Coding of audio-visual objects Part 5: Reference software

AMENDMENT 11: MPEG-J GFX Reference software

Add the following new Clause 6:

6 MPEG-J GFX reference software

6.1 Notes regarding the reference software

Two separate reference software packages are provided as detailed below. One works with IM1 and MPEG-4 Systems, the other is independent of MPEG-4 Systems. The MPEG-4 Systems independent package contains two reference implementations, one for Java 2 Standard Edition (J2SE) and one for Java 2 Mobile Edition (J2ME).

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6.2 MPEG-4 Systems Independent MPEG-J GFX Player

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You are strongly urged to/read the file READMEn first.txt before un2ipping the 2ip packages contained within this package. 6da6fe5fdfa7/iso-iec-14496-5-2001-amd-11-2007

Location	Content
.classpath and .project	Eclipse project files
build.properties and build.xml	ANT makefiles. build.properties contains user- configurable settings.
README_first.txt	Notes about software to install and various settings needed in Visual Studio before compiling the native code.
README_j2se	Notes about additional software to install and various settings needed for compiling the J2SE version of this reference software with Eclipse or ANT. Instructions on how to run the reference software.
README_j2me	Instructions for setting up the J2ME environment for running the J2ME version of the reference software. Instructions for building and running the J2ME emulator and reference software.
conformance/	Conformance test source
conformance/j2me	Conformance tests for J2ME environment
conformance/j2se	Conformance tests for J2SE environment
data/	Audio-visual resources for user interface and samples.
docs/	Documentation and specification

lib/vc7/ and lib/vc8/ Precompiled 3rd party libraries for Visual Studio .NET 2003 and 2005. For each compiler the release/ subdirectory contains the native player libraries after being compiled. Java code src/ src/org/iso/mpeg/mpegj/ MPEG-J GFX java source Implementation for J2 Standard Edition j2se Native (C/C++) code j2se/native/ j2se/native/GLRenderer OpenGL ES renderer wrapping OpenGL. This is a DLL generated in lib/vc7/ or lib/vc8/ j2se/native/RenderEngine Multimedia engine wrapping DirectShow. This is a DLL generate in lib/vc7/ or lib/vc8/. j2se/native/Utils Utility library for GLRenderer and RenderEngine DLLs. j2se/src/ Java code Player, MPEGlet management. j2se/src/com/mindego/player Various utilities j2se/src/com/mindego/player/util j2se/src/javax/microedition/m3g Placeholder for JSR-184 JSR-135 interfaces j2se/src/javax/microedition/media j2se/src/javax/microedition/opengles JSR-239 interfaces and implementation iTeh STANDAR^{J2ME} Record Management System j2se/src/javax/microedition/rms JSR-239 NIO package (should be java.nio but this j2se/src/javax/nio (standard would conflict with J2SE 1.4+) j2se/test/ Java test code, mainly of sample MPEGlets ISO/IEC 14496-5:2001/Amai tests j2se/test/com/mindego/player 8a9-4268-9f3fhttps://standards.iteh.ai/catalog/standar 6da6fe5fdfa7/iso-iec-14496-S-2001-Ante-Glets007 j2se/test/com/mindego/test j2me/j2me cldc Changes to Sun CLDC 1.1 RI to work with MIDP 2.0 RI & to include M3G. j2me/midp2.0fcs Changes to MIDP 2.0 RI to work with CLDC 1.1 and to include M3G. MPEG-J GFX reference software for J2ME j2me/midp2.0fcs/build Makefiles j2me/midp2.0fcs/build/share/makefiles Makefiles for building platform independent portions of CLDC 1.1, MIDP 2.0, M3G & GFX. j2me/midp2.0fcs/build/share/config Config files specifying properties of the MIDP-2 environment. j2me/midp2.0fcs/build/win32/kvm Folder for building and running CLDC 1.1/MIDP-2 environment for Windows. j2me/midp2.0fcs/build/win32/kvm/makefiles Makefiles for building Windows specific parts of the CLDC 1.1 & MIDP 2.0. j2me/midp2.0fcs/src/classes Java source code j2me/midp2.0fcs/src/classes/com/mascotcapsule/mmedia MPEG-J player Additional file needed for MIDP 2.0 to work with CLDC j2me/midp2.0fcs/src/classes/com/sun/cldc/io 1.1 j2me/midp2.0fcs/src/classes/com/sun/mmedia Modification to Standard JSR-135 Player implementation to enable use for a video player. M3G Implementation. This is not part of the GFX j2me/midp2.0fcs/src/classes/javax/microedition/m3g reference software and is provided only to make an environment in which the reference software can run.

j2me/midp2.0fcs/src/classes/javax/microedition/media J2me/midp2.0fcs/src/classes/javax/microedition/nio

j2me/midp2.0fcs/src/native j2me/midp2.0fcs/src/native/kvm

j2me/midp2.0fcs/src/native/micro3d

j2me/midp2.0fcs/src/native/dshow j2me/midp2.0fcs/src/native/dshow/dxinclude JSR-135 Interfaces.

JSR-239 NIO package (should be java.nio but this would conflict with J2SE 1.4+)

Native C/C++ code

Modification needed for MIDP 2.0 to work with CLDC 1.1. These files are not part of the MPEG-J GFX Reference Software. They are provided only to make an environment in which the reference software can run.

Native parts of M3G implementation. Provided in binary only. These files are not part of the MPEG-J GFX Reference Software. They are provided only to make an environment in which the reference software can run.

Native parts of the MPEG-J & MIDP video players.

DirectShow header files containing modifications needed to build the DirectShow BaseClasses when using Visual Studio 2005 and the Windows Server 2003 Platform SDK. These files are not part of the MPEG-J GFX Reference Software. They are provided only to make an environment in which the reference software can run.

j2me/midp2.0fcs/src/example

Examples

ListRenderers.java

J2me/midp2.0fcs/src/example/mpegletcontroller DARD PMPEGlet Controller and sample MPEGlets

J2me/midp2.0fcs/src/example/capabilitiestest dards.iten.ards

MPEG-4 Systems Dependent - MPEG-J GFX Updates to IM1 Player3D Player

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6da6fe5fdfa7/iso-iec-14496-5-200	Content	
Readme.txt	Readme file which gives content, installaion and configuration information.	
/IM1/MpegjDec/	Modified files: MPEGJDec.cpp, MPEGJDec.h for MPEG-J GFX functionality	
/IM1/mpegj/java/org/iso/mpeg/mpegj	Modified Files : MPEGlet.java for new states and API changes.	
	Added Files : MPEGletContext.java, TerminalContext.java, MPEGletStateChangeException.java, UnavailableContainerException.java for MPEG-J GFX changes	
/IM1/mpegj/java/org/iso/mpeg/mpegj/decoder	Added Files : DecoderControl.java, DecoderBase.java for new interfaces	
/IM1/mpegj/java/org/iso/mpeg/mpegj/media	Added Files : AudioBuffer.java, BufferDataInfo.java, BufferInfo.java, BufferNotAvailableException.java, Decoder.java, SceneBufferInfo.java, VideoBuffer.java	
/IM1/mpegj/java/org/iso/mpeg/mpegj/media/control	Added Files : StreamControl.java, VideoRendererControl.java	
/IM1/mpegj/java/org/iso/mpeg/mpegj/media/protocol	Added Files : ElementaryStream.java	
/IM1/mpegj/java/org/iso/mpeg/mpegj/renderer	Added Files : GFXRenderer.java, GFXRendererException.java, GLRenderer.java,	

/IM1/mpegj/java/org/iso/mpeg/mpegj/resource	Modified Files : DynamicCapabilityObserver.java, ResourceManager.java
	Added Files : DynamicCapabilityManager.java, ResourceManagerBase.java, UserDataListener.java, MediaManager.java, CapabilityManager.java_solaris
/IM1/mpegj/java/org/iso/mpeg/mpegj/systems	Added Files : DecoderConfigDescriptor.java, MPEG4Context.java
/IM1/mpegj/java/org/iso/mpeg/mpegjRefImpl	Modified Files : MPEGJClassLoader.java, MPEGControl.java for JAD and new Control functionality.
	Added Files : UserDataProcessor.java, UserData.java, DescriptorsProcessor.java for User data functionality.
/IM1/mpegj/java/org/iso/mpeg/mpegjRefImpl/resource	Added Files : StaticCapabilitiesList.java
	For static capabilities functionality
/IM1/mpegj/java/	Modified Files : make.bat, cleanup.bat

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