Network Working Group Request for Comments: 2361 Category: Informational E. Fleischman Microsoft Corporation June 1998

## WAVE and AVI Codec Registries

Status of this Memo

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#### Abstract

Internet applications may reference specific codecs within the WAVE and AVI registries as follows:

- \* video/vnd.avi; codec=XXX identifies a specific video codec (i.e., XXX) within the AVI Registry.
- \* audio/vnd.wave; codec=YYY identifies a specific audio codec (i.e., YYY) within the WAVE Registry.

Appendix A and Appendix B provides an authoritative reference for the interpretation of the required "codec" parameter. That is, the current set of audio codecs that are registered within the WAVE Registry are enumerated in Appendix A. Appendix B enumerates the current set of video codecs that have been registered to date within the AVI Registry.

### 1 Introduction

Internet-oriented multimedia applications reference multimedia content via predefined mechanisms (e.g., [2]). In the general case, this content was created primarily for the use of these Internet-oriented applications. Unfortunately, this Internet-oriented multimedia content represents a small minority of the total amount of multimedia content that has been created to date.

For this reason, a growing interest is forming in establishing mechanisms by which the repertoire of multimedia content available to Internet-oriented applications(e.g., for RTSP [3]) may be greatly extended to include multimedia content that has been created outside of distinctly Internet contexts. For this to occur, a mechanism must

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be created for Internet protocols (e.g., [1], [3], [4]) to be able to identify the codecs by which this so-called "traditional" multimedia content has been encoded.

Unfortunately, several distinct encoding systems exist for traditional multimedia content. Each system has its own registry to ensure unique and stable codec identifications within that system. Perhaps the best known of these registries are Microsoft (for WAVE and AVI content) and Apple (for QuickTime content).

The purpose of this paper is to establish a mechanism by which codecs registered within Microsoft's WAVE and AVI Registries may be referenced within the IANA Namespace by Internet applications.

2 References to Registries within the IANA Vendor Tree

Reference [7] specifies that the IANA Namespace encompasses several trees. Discussions within the IETF-Types mailing list concluded that the most appropriate tree in which to reference codecs, which had already been registered by non-IANA Registries, is the Vendor Tree.

As a result, the non-IANA registry is identified within the IANA Vendor tree by vnd.RegistryName. A specific codec, which has been registered within that registry, is identified by a required codec parameter as specified by Section 2.2.3 of [7].

3 WAVE and AVI Registries

Both the WAVE and AVI Registries are historic databases that have been maintained by Microsoft as a free service. The Registries sought to assist developers of WAVE and AVI content and to standardize WAVE and AVI content by

- 1) avoiding conflict and/or duplication with current definitions, and
- 2) providing the registered information in a standard document and format that is publicly available.

The historic nature of these databases implies that unless the original registrants informed the registrar of a change of status (e.g., company acquired, new contact, new location, new phone), the contact information has generally not been updated from the originally registered values.

Audio codecs within the WAVE Registry are identified by WAVE Format IDs. The (audio) WAVE Format ID is officially known as "WAVE form Registration Number". The WAVE Format ID is a hexadecimal integer value. These codecs may be referenced within the IANA namespace as

"audio/vnd.wave; codec=XXX", where XXX represents a valid WAVE Format ID (e.g., the WAVE Format ID of "123" is referenced within the IANA namespace by "audio/vnd.wave; codec=123").

Video codecs within the AVI Registry are identified by AVI Codec IDs. The AVI Codec ID value is a FourCC encoding. A FourCC is 32-bits long and represents a (case-sensitive) four-character (i.e., ASCII) code value. These codecs may be referenced within the IANA namespace as "video/vnd.avi; codec=XXX", where XXX represents a valid AVI Codec ID (e.g., the WAVE Format ID of "SCRN" is referenced within the IANA namespace by "video/vnd.avi; codec=SCRN").

Appendix A is an authoritative list of the complete set of audio codecs that have been registered (as of January 1998) within the WAVE Registry. Appendix B is an authoritative list of the complete set of video codecs that have been registered (as of January 1998) within the AVI registry.

#### 4 Mapping Codec IDs to GUID Values

Direct mappings exist between WAVE Format IDs and GUIDs and between FourCC codec values and GUIDs [5]. [Note: GUIDs are Globally Unique Identifiers that are also known as Universally Unique Identifiers (UUIDs). UUIDs have been standardized within the Open Software Foundation's (OSF) Distributed Computing Environment (DCE).] These mappings enable GUID-oriented software to directly refer to these historic codec values. For example, the Advanced Streaming Format (ASF) [6] uses GUID values to refer to codecs, and the following mechanism is used to convert the historic WAVE and AVI codec values into the appropriate GUID value for use within ASF.

WAVE Format IDs are converted to GUIDs by inserting the hexadecimal value of the WAVE Format ID into the XXXXXXXX part of the following template:  $\{XXXXXXXX-0000-0010-8000-00AA00389B71\}$ . For example, a WAVE Format ID of 123 has the GUID value of  $\{00000123-0000-0010-8000-00AA00389B71\}$ .

FourCC values are converted to GUIDs by inserting the FourCC value into the XXXXXXXX part of the same template: {XXXXXXXX-0000-0010-8000-00AA00389B71}. For example, a conversion of the FourCC value of "H260" would result in the GUID value of {30363248-0000-0010-8000-00AA00389B71}. [Note: the 32-bit FourCC value of "H260" is converted into hexadecimal 32-bit value (i.e., 30363248) because the initial XXXXXXXXX of the GUID is defined as a DWORD and thus takes a 32-bit hexadecimal value. Endian considerations account for the apparent re-ordering of the original ASCII text.]

## 5 Security Considerations

This document merely registers a set of formats. It does nothing to address the security considerations of these formats. The format itself must be investigated for security issues with each format.

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The Boeing Company PO Box 3707, MS 7M-FM Seattle, WA 98124-2207

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#### References

- [1] Schulzrinne, H., Casner, S., Frederick, R., and V. Jacobson, "RTP: A Transport Protocol for Real-Time Applications", RFC 1889, January 1996.
- [2] Schulzrinne, H., "RTP Profile for Audio and Video Conferences with Minimal Control", RFC 1890, January 1996.
- [3] Schulzrinne, H., Rao, A., and R. Lanphier, "Real Time Streaming Protocol (RTSP)", RFC 2326, April 1998.
- [4] Handley, M., and V. Jacobson, "SDP: Session Description Protocol", RFC 2327, April 1998.
- [5] "ASF Codec GUIDs", http://www.microsoft.com/asf/guids.htm
- [6] Microsoft Corporation, "Advanced Streaming Format (ASF)
   Specification", September 1997,
   http://www.microsoft.com/asf/specs.htm.
- [7] Freed, N., Klensin, J., and J. Postel, "Multipurpose Internet Mail Extensions (MIME) Part Four: Registration Procedures", RFC 2048, November 1996.

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## Appendix A Audio Codecs from the Microsoft WAVE Registry

#### A.1 Microsoft Unknown Wave Format

WAVE form Registration Number (hex): 0x0000

Codec ID in the IANA Namespace: audio/vnd.wave;codec=0 WAVE form wFormatTag ID: WAVE\_FORMAT\_UNKNOWN

Contact:

Terri Hendry, 425-936-2069 Microsoft Corporation One Microsoft Way Redmond, WA 98052-6399 USA

## A.2 Microsoft PCM Format

WAVE form Registration Number (hex): 0x0001

Codec ID in the IANA Namespace: audio/vnd.wave;codec=1

WAVE form wFormatTag ID: WAVE\_FORMAT\_PCM

Contact:
Terri Hendry
425-936-2069
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA

## A.3 Microsoft ADPCM Format

WAVE form Registration Number (hex): 0x0002

Codec ID in the IANA Namespace: audio/vnd.wave;codec=2
WAVE form wFormatTag ID: WAVE\_FORMAT\_ADPCM

Contact:
Terri Hendry
425-936-2069
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA

A.4 IEEE Float

WAVE form Registration Number (hex): 0x0003

Codec ID in the IANA Namespace: audio/vnd.wave;codec=3

WAVE form wFormatTag ID: WAVE\_FORMAT\_IEEE\_FLOAT

Contact:
Terri Hendry
425-936-2069
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA

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#### A.5 Compaq Computer's VSELP

WAVE form Registration Number (hex): 0x0004

Codec ID in the IANA Namespace: audio/vnd.wave;codec=4

WAVE form wFormatTag ID: WAVE\_FORMAT\_VSELP
Additional information: VSELP codec for Windows CE 2.0 devices

Contact: Doug Stewart 713-374-7925 Compaq Computer Corporation 20555 SH 249 Houston, TX 77269-2000 USA

#### А.б IBM CVSD

WAVE form Registration Number (hex): 0x0005

Codec ID in the IANA Namespace: audio/vnd.wave;codec=5 WAVE form wFormatTag ID: WAVE\_FORMAT\_IBM\_CVSD

Contact:

IBM Corporation

#### A.7 Microsoft ALAW

WAVE form Registration Number (hex): 0x0006

Codec ID in the IANA Namespace: audio/vnd.wave;codec=6

WAVE form wFormatTag ID: WAVE\_FORMAT\_ALAW

Contact: Terri Hendry 425-936-2069 Microsoft Corporation

One Microsoft Way

Redmond, WA 98052-6399 USA

#### A.8 Microsoft MULAW

WAVE form Registration Number (hex): 0x0007

Codec ID in the IANA Namespace: audio/vnd.wave;codec=7 WAVE form wFormatTag ID: WAVE\_FORMAT\_MULAW

Contact: Terri Hendry 425-936-2069

Microsoft Corporation One Microsoft Way

Redmond, WA 98052-6399 USA

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#### A.9 OKI ADPCM

WAVE form Registration Number (hex): 0x0010

Codec ID in the IANA Namespace: audio/vnd.wave;codec=10 WAVE form wFormatTag ID: WAVE\_FORMAT\_OKI\_ADPCM

Contact: Oki

A.10 Intel's DVI ADPCM

WAVE form Registration Number (hex): 0x0011

Codec ID in the IANA Namespace: audio/vnd.wave;codec=11 WAVE form wFormatTag ID: WAVE\_FORMAT\_DVI\_ADPCM

Contact:

Intel Corporation 5200 NE Elam Young Parkway Hillsboro, OR 97124

503-696-2448

A.11 Videologic's MediaSpace ADPCM

WAVE form Registration Number (hex): 0x0012

Codec ID in the IANA Namespace: audio/vnd.wave;codec=12
WAVE form wFormatTag ID: WAVE\_FORMAT\_MEDIASPACE\_ADPCM

Contact: Videologic Home Park Estate

Kings Langley England WD4 8LZ
Telephone: 44-92-326-0511

A.12 Sierra ADPCM

WAVE form Registration Number (hex): 0x0013

Codec ID in the IANA Namespace: audio/vnd.wave;codec=13
WAVE form wFormatTag ID: WAVE\_FORMAT\_SIERRA\_ADPCM

Contact:

Stuart Goldstein 72170.301@compuserve.com

72170.301@compuserve.com Sierra Semiconductor Corp 2075 North Capitol Avenue San Jose, California 95132 USA

408-263-9300

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#### A.13 G.723 ADPCM

WAVE form Registration Number (hex): 0x0014

Codec ID in the IANA Namespace: audio/vnd.wave;codec=14 WAVE form wFormatTag ID: WAVE\_FORMAT\_G723\_ADPCM

Contact:
Bob Bauman
310-532-3092
Antex Electronics Coporation
3184-H Airway Ave.
Costa Mesa, California 92627 USA

#### A.14 DSP Solution's DIGISTD

WAVE form Registration Number (hex): 0x0015

Codec ID in the IANA Namespace: audio/vnd.wave;codec=15
WAVE form wFormatTag ID: WAVE\_FORMAT\_DIGISTD

Contact:

DSP Solutions, Inc 2464 Embarcadero Way Palo Alto, California 94303 USA 415-494-8086

#### A.15 DSP Solution's DIGIFIX

WAVE form Registration Number (hex): 0x0016

Codec ID in the IANA Namespace: audio/vnd.wave;codec=16 WAVE form wFormatTag ID: WAVE\_FORMAT\_DIGIFIX

Contact: DSP Solutions, Inc 2464 Embarcadero Way Palo Alto, California 94303 USA 415-494-8086

## A.16 Dialogic OKI ADPCM

WAVE form Registration Number (hex): 0x0017

Codec ID in the IANA Namespace: audio/vnd.wave;codec=17
WAVE form wFormatTag ID: WAVE\_FORMAT\_DIALOGIC\_OKI\_ADPCM
WAVEFORMAT use: for OKI ADPCM chips or firmware

Contact:

Dialogic Corporation 300 Littleton Road Parsippany, NJ 07054 USA 201-334-1268

#### A.17 MediaVision ADPCM

WAVE form Registration Number (hex): 0x0018

Codec ID in the IANA Namespace: audio/vnd.wave;codec=18 WAVE form wFormatTag ID: WAVE\_FORMAT\_MEDIAVISION\_ADPCM WAVEFORMAT Name: ADPCM for Jazz 16 chip set

Contact: Alex Cheng Media Vision, Inc California USA

#### A.18 HP CU

WAVE form Registration Number (hex):  $0 \times 0019$ 

Codec ID in the IANA Namespace:
WAVE form wFormatTag ID: audio/vnd.wave;codec=19 WAVE form wFormatTag ID: WAVE FORMAT CU CODEC

Contact: Cliff Chiang

Telephone: 65-3747005 Hewlett-Packard Company 452 Alexandra Road Singapore 119961 Singapore

#### A.19 Yamaha ADPCM

WAVE form Registration Number (hex): 0x0020

Codec ID in the IANA Namespace: audio/vnd.wave;codec=20 WAVE form wFormatTag ID: WAVE\_FORMAT\_YAMAHA\_ADPCM

Contact:

Yamaha Corporation of America Systems Technology Division 981 Ridder Park Drive San Jose, California 95131 USA 408-437-3133

#### A.20 Speech Compression's Sonarc

WAVE form Registration Number (hex):

Codec ID in the IANA Namespace: audio/vnd.wave;codec=21 WAVE form wFormatTag ID: WAVE FORMAT SONARC

Contact:

Speech Compression

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## A.21 DSP Group's True Speech

WAVE form Registration Number (hex): 0x0022 Codec ID in the IANA Namespace: audio/vnd.wave;codec=22 WAVE form wFormatTag ID: WAVE\_FORMAT\_DSPGROUP\_TRUESPEECH

Contact: DSP Group, Inc 2464 Embarcadero Way Palo Alto, California 94303 USA 415-494-8086

#### A.22 Echo Speech's EchoSC1

 $0 \times 0023$ 

WAVE form Registration Number (hex):
Codec ID in the IANA Namespace: audio/vnd.wave;codec=23 WAVE form wFormatTag ID: WAVE FORMAT ECHOSC1

Contact: Billy Brackenridge billy@isi.edu Echo Speech Corporation 6460 Via Real Carpinteria, California 93013 USA 805-684-4593

## A.23 Audiofile AF36

WAVE form Registration Number (hex): 0x0024

Codec ID in the IANA Namespace: audio/vnd.wave;codec=24 WAVE form wFormatTag ID: WAVE FORMAT AUDIOFILE AF36

Contact: Alan Miller 617-271-0900 Virtual Music, Inc. 19 Crosby Drive Bedford, MA 01730-1419 USA

## A.24 APTX

WAVE form Registration Number (hex): 0x0025

Codec ID in the IANA Namespace: audio/vnd.wave;codec=25

WAVE form wFormatTag ID: WAVE FORMAT APTX

Contact:

Calypso Software

Audio Processing Technology

Edgewater Road

Belfast, Northern Ireland

44-232-371110

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#### A.25 AudioFile AF10

WAVE form Registration Number (hex): 0x0026

Codec ID in the IANA Namespace: audio/vnd.wave;codec=26 WAVE form wFormatTag ID: WAVE\_FORMAT\_AUDIOFILE\_AF10

Contact: Alan Miller 617-271-0900 Virtual Music, Inc. 19 Crosby Drive Bedford, MA 01730-1419 USA

## A.26 Prosody 1612

WAVE form Registration Number (hex): 0x0027

WAVE form Registration

Codec ID in the IANA Namespace: audio/vnd.wave;codec=27 WAVE form wFormatTag ID: WAVE\_FORMAT\_PROSODY\_1612 Prosody CTI Speech Card

Additional Information: Contact: Phil Cambridge Phil.Cambridge@aculab.com Aculab plc Lakeside, Bramley Road Mount Farm, Milton Keynes MK1 1PT UK +44 1908 273800

## A.27 LRC

Contact:

WAVE form Registration Number (hex): 0x0028

Codec ID in the IANA Namespace: audio/vnd.wave;codec=28

WAVE form wFormatTag ID: WAVE\_FORMAT\_LRC

Patrick Wassmer pwassmer@merging.com

+41 21 931 50 11

Merging Technologies S.A.

Le Verney, E

Puidoux, Switzerland CH-1604

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## A.28 Dolby AC2

WAVE form Registration Number (hex): 0x0030

Codec ID in the IANA Namespace: audio/vnd.wave;codec=30 WAVE form wFormatTag ID: WAVE\_FORMAT\_DOLBY\_AC2

Contact:

Dolby Laboratories 100 Portrero Avenue

San Francisco, California 94103-4813 USA

415-558-0200

#### A.29 GSM610

WAVE form Registration Number (hex): 0x0031

Codec ID in the IANA Namespace: audio/vnd.wave;codec=31 WAVE form wFormatTag ID: WAVE FORMAT GSM610

Contact:

Terri Hendry, 425-936-2069 Microsoft Corporation One Microsoft Way Redmond, WA 98052-6399 USA

#### A.30 MSNAudio

WAVE form Registration Number (hex): 0x0032

Codec ID in the IANA Namespace: audio/vnd.wave;codec=32
WAVE form wFormatTag ID: WAVE\_FORMAT\_MSNAUDIO
WAVEFORMAT Name: Microsoft MSN Audio Codec

Contact:

Terri Hendry, 425-936-2069 Microsoft Corporation One Microsoft Way Redmond, WA 98052-6399 USA

#### A.31 Antex ADPCME

WAVE form Registration Number (hex): 0x0033

Codec ID in the IANA Namespace: audio/vnd.wave;codec=33
WAVE form wFormatTag ID: WAVE\_FORMAT\_ANTEX\_ADPCME

Contact:
Bob Bauman

Antex Electronics Corporation

3184-H Airway Ave.

Costa Mesa, California 92627 USA

310-532-3092

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## A.32 Control Res VQLPC

WAVE form Registration Number (hex): 0x0034

Codec ID in the IANA Namespace: audio/vnd.wave;codec=34

WAVE form wFormatTag ID: WAVE\_FORMAT\_CONTROL\_RES\_VQLPC

Contact:

Charles Larson

Control Resources Limited

PO Box 8694

Roland Heights, California 91748 USA

818-912-5722

## A.33 Digireal

WAVE form Registration Number (hex): 0x0035

Codec ID in the IANA Namespace: audio/vnd.wave;codec=35 WAVE form wFormatTag ID: WAVE FORMAT DIGIREAL

Contact:

DSP Solutions, Inc 2464 Embarcadero Way

Palo Alto, California 94303 USA

415-494-8086

#### A.34 DigiADPCM

WAVE form Registration Number (hex): 0x0036

Codec ID in the IANA Namespace: audio/vnd.wave;codec=36 WAVE FORMAT DIGIADPCM

WAVE form wFormatTag ID:

Contact:

DSP Solutions, Inc

2464 Embarcadero Way

Palo Alto, California 94303 USA

415-494-8086

#### A.35 Control Res CR10

WAVE form Registration Number (hex): 0x0037

Codec ID in the IANA Namespace: audio/vnd.wave;codec=37

WAVE\_FORMAT\_CONTROL\_RES\_CR10

WAVE form wFormatTag ID:

Contact:

Charles Larson

Control Resources Limited

PO Box 8694

Roland Heights, California 91748 USA

818-912-5722

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#### A.36 NMS VBXADPCM

WAVE form Registration Number (hex): 0x0038

Codec ID in the IANA Namespace: audio/vnd.wave;codec=38
WAVE form wFormatTag ID: WAVE\_FORMAT\_NMS\_VBXADPCM

Contact:

Joel Feldman, Steve Mors Natural MicroSystems

#### A.37 Roland RDAC

WAVE form Registration Number (hex): 0x0039

Codec ID in the IANA Namespace: audio/vnd.wave;codec=39 WAVE form wFormatTag ID: WAVE\_FORMAT\_ROLAND\_RDAC

WAVEFORMAT Name: Roland RDAC Proprietary format

Contact:

Takera Tanigawa

email: tanigawa@roland.co.jp

001-81-6-682-4584

#### A.38 EchoSC3

WAVE form Registration Number (hex): 0x003A

Codec ID in the IANA Namespace: audio/vnd.wave;codec=3A WAVE form wFormatTag ID: WAVE\_FORMAT\_ECHOSC3
WAVEFORMAT Description: Proprietary compressed format

Contact:

Billy Brackenridge billy@isi.edu

Echo Speech Corporation

6460 Via Real

Carpinteria, California 93013 USA

805-684-4593

#### A.39 Rockwell ADPCM

WAVE form Registration Number (hex): 0x003B

Codec ID in the IANA Namespace: audio/vnd.wave;codec=3B WAVE form wFormatTag ID: WAVE\_FORMAT\_ROCKWELL\_ADPCM

WAVEFORMAT Name: Rockwell ADPCM

Contact:

Rockwell International

Digital Communications Division

4311 Jamboree Rd.

PO Box C

Newport Beach, California 92658-8902 USA

714-833-4600

## A.40 Rockwell Digit LK

WAVE form Registration Number (hex): 0x003C

Codec ID in the IANA Namespace: audio/vnd.wave;codec=3C

WAVE form wFormatTag ID: WAVE\_FORMAT\_ROCKWELL\_DIGITALK

WAVEFORMAT Name: Rockwell DIGITALK

Contact:

Rockwell International

Digital Communications Division

4311 Jamboree Rd.

PO Box C

Newport Beach, California 92658-8902 USA

714-833-4600

#### A.41 Xebec

WAVE form Registration Number (hex): 0x003D

Codec ID in the IANA Namespace: audio/vnd.wave;codec= WAVE form wFormatTag ID: WAVE\_FORMAT\_XEBEC Additonal Information: proprietary compression

Contact:

David Emberton 44-453-835482

Xebec Multimedia Solutions Limited

Smith House

1-3 George Street

Nailsworth, Gloucestershire, England GL6 OAG

## Antex Electronics G.721

 $0 \times 0040$ 

WAVE form Registration Number (hex):
Codec ID in the IANA Namespace: audio/vnd.wave;codec=40 WAVE form wFormatTag ID: WAVE\_FORMAT\_G721\_ADPCM

Contact: Bob Bauman 310-532-3092

Antex Electronics Coporation

3184-H Airway Ave.

Costa Mesa, California 92627 USA

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#### A.43 G.728 CELP

WAVE form Registration Number (hex): 0x0041

Codec ID in the IANA Namespace: audio/vnd.wave;codec=41 WAVE form wFormatTag ID: WAVE\_FORMAT\_G728\_CELP

Contact: Bob Bauman 310-532-3092 Antex Electronics Coporation 3184-H Airway Ave. Costa Mesa, California 92627 USA

#### A.44 MSG723

 $0 \times 0042$ 

WAVE form Registration Number (hex):
Codec ID in the IANA Namespace: audio/vnd.wave;codec=42 WAVE form wFormatTag ID: WAVE FORMAT MSG723

Contact: Terri Hendry, 425-936-2069 Microsoft Corporation One Microsoft Way Redmond, WA 98052-6399 USA

#### A.45 MPEG

WAVE form Registration Number (hex): 0x0050

Codec ID in the IANA Namespace: audio/vnd.wave;codec=50

WAVE form wFormatTag ID:

Contact:

Terri Hendry, 425-936-2069 Microsoft Corporation One Microsoft Way Redmond, WA 98052-6399 USA

WAVE\_FORMAT\_MPEG

#### A.46 RT24

WAVE form Registration Number (hex): 0x0052

WAVE form Registration name:

Codec ID in the IANA Namespace:

audio/vnd.wave.co

WAVE\_FORMAT\_RT24 audio/vnd.wave;codec=52

WAVE form wFormatTag ID: WAVE\_FORMAT\_RT24
Additional Information: This ACM codec is an alternative codec ID to refer to the Voxware Metavoice codec (Codec ID 0x0074). Only the

Voxware reference should be used in the general case.

Contact:

Alexander V. Sokolsky

717-730-9501 InSoft, Inc.

4718 Old Gettysburg Rd

Suite 307

Mechanicsburg, PA 17055-4378 USA

#### A.47 PAC

WAVE form Registration Number (hex):  $0 \times 0053$ 

Codec ID in the IANA Namespace: audio/vnd.wave;codec=53

WAVE form wFormatTag ID: WAVE FORMAT PAC

Contact:

Alexander V. Sokolsky

717-730-9501 InSoft, Inc.

4718 Old Gettysburg Rd

Suite 307

Mechanicsburg, PA 17055-4378 USA

## A.48 MPEG Layer 3

 $0 \times 0055$ 

WAVE form Registration Number (hex):
Codec ID in the IANA Namespace: audio/vnd.wave;codec=55 WAVE form wFormatTag ID: WAVE\_FORMAT\_MPEGLAYER3 Additional Information: ISO/MPEG Layer3 Format Tag

Contact:

Tomislav Grcanac (408) 576-1361 AT&T Labs, Inc. 2665 North First Street

San Jose, California 95134 USA

#### A.49 Lucent G.723

WAVE form Registration Number (hex): 0x0059

Codec ID in the IANA Namespace: audio/vnd.wave;codec=59 WAVE form wFormatTag ID: WAVE\_FORMAT\_LUCENT\_G723

Contact: Ray Jones (raykj@lucent.com)

Lucent Technologies

A.50 Cirrus

WAVE form Registration Number (hex): 0x0060

Codec ID in the IANA Namespace: audio/vnd.wave;codec=60 WAVE form wFormatTag ID: WAVE\_FORMAT\_CIRRUS

Contact:

Mr Scott MacDonald 512 442-7555

Cirrus Logic (USA)

A.51 ESPCM

WAVE form Registration Number (hex): 0x0061 Codec ID in the IANA Namespace: audio/

audio/vnd.wave;codec=61

WAVE\_FORMAT\_ESPCM

WAVE form wFormatTag ID:

Contact: Paul Sung 510-226-1088 ESS Technology 46107 Landing Parkway

Fremont, California 94538 USA

A.52 Voxware

WAVE form Registration Number (hex): 0x0062

Codec ID in the IANA Namespace: audio/vnd.wave;codec=62 WAVE form wFormatTag ID: WAVE\_FORMAT\_VOXWARE

Additional Information: This format is now obsolete

Contact: Lee Stewart

rover@pipeline.com or compuserve 75570,3525 or lees@voxware.com

Voxware Inc

172 Tamarack Circle Skillman, NJ 08558 USA

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## A.53 Canopus Atrac

WAVE form Registration Number (hex): 0x0063

Codec ID in the IANA Namespace: audio/vnd.wave;codec=63
WAVE form wFormatTag ID: WAVE\_FORMAT\_CANOPUS\_ATRAC

Additional Information: ATRACWAVEFORMAT

Contact:

Masayoshi Araki m-araki@canopus.co.jp

81-78-992-7812 Canopus, Co., Ltd.

Kobe Hi-Tech Park

1-2-2 Murotani, Nishi-ku

Kobe, Hyogo 651-22 Japan

#### A.54 G.726 ADPCM

WAVE form Registration Number (hex): 0x0064

Codec ID in the IANA Namespace: audio/vnd.wave;codec=64 WAVE form wFormatTag ID: WAVE\_FORMAT\_G726\_ADPCM

Contact:

Jean-Claude Anaya

100433.3121@compuserve.com

(33) 57-26-99-24

APICOM

218, Avenue du Haut-Leveque

Pessac France 33605

## A.55 G.722 ADPCM

WAVE form Registration Number (hex): 0x0065

Codec ID in the IANA Namespace: audio/vnd.wave;codec=65

WAVE\_FORMAT\_G722\_ADPCM

WAVE form wFormatTag ID:

Contact:

Jean-Claude Anaya

100433.3121@compuserve.com

(33) 57-26-99-24

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218, Avenue du Haut-Leveque

Pessac France 33605

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#### A.56 DSAT

WAVE form Registration Number (hex): 0x0066

Codec ID in the IANA Namespace: audio/vnd.wave;codec=66

WAVE form wFormatTag ID: WAVE\_FORMAT\_DSAT

Contact: Terri Hendry 425-936-2069 Microsoft Corporation One Microsoft Way Redmond, WA 98052-6399 USA

## A.57 DSAT Display

0x0067

WAVE form Registration Number (hex):
Codec ID in the IANA Namespace:
WAVE form wFormatTag ID: audio/vnd.wave;codec=67 WAVE form wFormatTag ID: WAVE FORMAT DSAT DISPLAY

Contact: Terri Hendry 425-936-2069 Microsoft Corporation One Microsoft Way Redmond, WA 98052-6399 USA

#### A.58 Voxware Byte Aligned

WAVE form Registration Number (hex): 0x0069
Codec ID in the IANA Namespace: audio/vnd.wave;codec=69

WAVE form wFormatTag ID:n WAVE\_FORMAT\_VOXWARE\_BYTE\_ALIGNED Additional Information: This format is now obsolete

Contact: Lee Stewart

rover@pipeline.com or compuserve 75570,3525 or lees@voxware.com

Voxware Inc

172 Tamarack Circle Skillman, NJ 08558 USA

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#### A.59 Voxware AC8

WAVE form Registration Number (hex): 0x0070

Codec ID in the IANA Namespace: audio/vnd.wave;codec=70
WAVE form wFormatTag ID: WAVE\_FORMAT\_VOXWARE\_AC8
Additional Information: This format ID is now obsolete

Contact: Lee Stewart lees@voxware.com Voxware Inc. 172 Tamarack Circle Skillman, NJ 08558 USA

## A.60 Voxware AC10

WAVE form Registration Number (hex): 0x0071

Codec ID in the IANA Namespace: audio/vnd.wave;codec=71
WAVE form wFormatTag ID: WAVE\_FORMAT\_VOXWARE\_AC10
Additional Information: This format ID is now obsolete

Contact: Lee Stewart lees@voxware.com Voxware Inc. 172 Tamarack Circle Skillman, NJ 08558 USA

## A.61 Voxware AC16

WAVE form Registration Number (hex): 0x0072

Codec ID in the IANA Namespace: audio/vnd.wave;codec=72
WAVE form wFormatTag ID: WAVE\_FORMAT\_VOXWARE\_AC16
Additional Information: This format ID is now obsolete

Contact: Lee Stewart lees@voxware.com Voxware Inc. 172 Tamarack Circle Skillman, NJ 08558 USA

#### A.62 Voxware AC20

WAVE form Registration Number (hex): 0x0073

Codec ID in the IANA Namespace: audio/vnd.wave;codec=73
WAVE form wFormatTag ID: WAVE\_FORMAT\_VOXWARE\_AC20
Additional Information: This format ID is now obsolete

Contact: Lee Stewart lees@voxware.com Voxware Inc. 172 Tamarack Circle Skillman, NJ 08558 USA

#### A.63 Voxware MetaVoice

WAVE form Registration Number (hex):  $0 \times 0074$ 

audio/vnd.wave;codec=74 WAVE form wFormatTag ID: WAVE\_FORMAT\_VOXWARE\_RT24 Additional Information: file and stream oriented

Contact: Lee Stewart lees@voxware.com Voxware Inc. 172 Tamarack Circle Skillman, NJ 08558 USA

## A.64 Voxware MetaSound

WAVE form Registration Number (hex): 0x0075

Codec ID in the IANA Namespace: audio/vnd.wave;codec=75
WAVE form wFormatTag ID: WAVE\_FORMAT\_VOXWARE\_RT29 WAVE\_FORMAT\_VOXWARE\_RT29 file and stream oriented Additional Information:

Contact: Lee Stewart lees@voxware.com Voxware Inc. 172 Tamarack Circle Skillman, NJ 08558 USA

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#### A.65 Voxware RT29HW

WAVE form Registration Number (hex): 0x0076

Codec ID in the IANA Namespace: audio/vnd.wave;codec=76
WAVE form wFormatTag ID: WAVE\_FORMAT\_VOXWARE\_RT29HW
Additional Information: This format ID is now obsolete

Contact: Lee Stewart lees@voxware.com Voxware Inc. 172 Tamarack Circle Skillman, NJ 08558 USA

## A.66 Voxware VR12

WAVE form Registration Number (hex): 0x0077

Codec ID in the IANA Namespace: audio/vnd.wave;codec=77
WAVE form wFormatTag ID: WAVE\_FORMAT\_VOXWARE\_VR12
Additional Information: This format ID is now obsolete

Contact: Lee Stewart lees@voxware.com Voxware Inc. 172 Tamarack Circle Skillman, NJ 08558 USA

## A.67 Voxware VR18

WAVE form Registration Number (hex): 0x0078

Codec ID in the IANA Namespace: audio/vnd.wave;codec=78 WAVE form wFormatTag ID: WAVE\_FORMAT\_VOXWARE\_VR18 Additional Information: This format ID is now obsolete

Contact: Lee Stewart lees@voxware.com Voxware Inc. 172 Tamarack Circle Skillman, NJ 08558 USA

## A.68 Voxware TQ40

WAVE form Registration Number (hex): 0x0079

Codec ID in the IANA Namespace: audio/vnd.wave;codec=79
WAVE form wFormatTag ID: WAVE\_FORMAT\_VOXWARE\_TQ40
Additional Information: This format ID is now obsolete

Contact: Lee Stewart lees@voxware.com Voxware Inc. 172 Tamarack Circle Skillman, NJ 08558 USA

#### A.69 Softsound

WAVE form Registration Number (hex): 0x0080
Codec ID in the IANA Namespace: audio/vnd.wave;codec=80 WAVE form wFormatTag ID: WAVE\_FORMAT\_SOFTSOUND

Contact: AJ Robinson 44-1727-847949 Softsound, Ltd. 12 St. Stephens Avenue St. Albans, Herts, UK AL3 4AD

# A.70 Voxware TQ60

WAVE form Registration Number (hex): 0x0081

Codec ID in the IANA Namespace: audio/vnd.wave;codec=81
WAVE form wFormatTag ID: WAVE\_FORMAT\_VOXWARE\_TQ60
Additional Information: This format ID is now obsolete

Contact: Lee Stewart lees@voxware.com Voxware Inc. 172 Tamarack Circle Skillman, NJ 08558 USA

#### A.71 MSRT24

WAVE form Registration Number (hex): 0x0082

audio/vnd.wave;codec=82

WAVE form wFormatTag ID: WAVE\_FORMAT\_MSRT24
Additional Information: This ACM codec is an alternative codec ID to refer to the Voxware Metavoice codec (Codec ID 0x0074). Only the Voxware reference should be used in the general case.

Contact: Terri Hendry 425-936-2069

Microsoft Corporation One Microsoft Way Redmond, WA 98052-6399 USA

#### A.72 G.729A

WAVE form Registration Number (hex): 0x0083

Codec ID in the IANA Namespace: audio/vnd.wave;codec=83 WAVE form wFormatTag ID: WAVE\_FORMAT\_G729A

Contact:

AT&T Laboratories

#### A.73 MVI MV12

WAVE form Registration Number (hex): 0x0084

Codec ID in the IANA Namespace: audio/vnd.wave;codec=84 WAVE form wFormatTag ID: WAVE\_FORMAT\_MVI\_MV12

Contact:

David R. Whipple

whipple@mail.webtek.com

Motion Pixels

7802 North 132 East Court

Owasso, OK 74055 USA

(918) 272-5328

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#### A.74 DF G.726

WAVE form Registration Number (hex): 0x0085

Codec ID in the IANA Namespace: audio/vnd.wave;codec=85 WAVE form wFormatTag ID: WAVE\_FORMAT\_DF\_G726

Contact:

Jarno van Rooyen Jarno.VanRooyen@DataVoice.co.za

DataFusion Systems (Pty) (Ltd) PO Box 582

Stellenbosch Stellenbosch South Africa

27 21 888 2000

#### A.75 DF GSM610

WAVE form Registration Number (hex): 0x0086
Codec ID in the IANA Namespace: audio/vnd.wave;codec=86 WAVE\_FORMAT\_DF\_GSM610

WAVE form wFormatTag ID:

Contact:

Jarno van Rooyen

Jarno.VanRooyen@DataVoice.co.za

DataFusion Systems (Pty) (Ltd)

PO Box 582

Stellenbosch 7600 South Africa

27 21 888 2000

## A.76 ISIAudio

WAVE form Registration Number (hex): 0x0088

Codec ID in the IANA Namespace: audio/vnd.wave;codec=88
WAVE form wFormatTag ID: WAVE FORMAT ISLAUDIO

WAVE form wFormatTag ID:

Contact:

Iterated Systems, Inc.

5550-a Peachtree Parkway

Suite 650

Norcross, GA 30092 USA

404-840-0633

WAVE\_FORMAT\_ISIAUDIO

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## A.77 Onlive

WAVE form Registration Number (hex): 0x0089

Codec ID in the IANA Namespace: audio/vnd.wave;codec=89 WAVE form wFormatTag ID: WAVE\_FORMAT\_ONLIVE

Contact:

Dr. Ajit L. Lalwani ajit@onlive.com (408) 617 - 3595OnLive! Technologies, Inc. 1039 S. Mary Ave. Sunnyvale, California 94087 USA (408) 617-7000

#### A.78 SBC24

WAVE form Registration Number (hex): 0x0091
Codec ID in the IANA Namespace: audio/vnd.wave;codec=91
WAVE form wFormatTag ID: WAVE FORMAT SBC24

WAVE\_FORMAT\_SBC24 WAVE form wFormatTag ID:

Contact: Dieter Rencken Dieter.W.Rencken@siemenscom.com (408) 492-6539 Siemens Business Communications Systems 4900 Old Ironsides Drive Santa Clara, California 95054 USA (408) 492-2000

#### A.79 Dolby AC3 SPDIF

WAVE form Registration Number (hex): 0x0092
Codec ID in the IANA Namespace: audio/v audio/vnd.wave;codec=92 WAVE form wFormatTag ID: WAVE\_FORMAT\_DOLBY\_AC3\_SPDIF

Contact:

Monty Schmidt Sonic Foundry 100 South Baldwin, Suite 204 Madison, WI 53703 USA 608-256-3133

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## A.80 ZyXEL ADPCM

WAVE form Registration Number (hex): 0x0097

Codec ID in the IANA Namespace: audio/vnd.wave;codec=97 WAVE form wFormatTag ID: WAVE\_FORMAT\_ZYXEL\_ADPCM

Contact:
Nasser Tarazi
nasser@ZyXEL.COM
714-693-0808 ext 206
ZyXEL Communications, Inc.
4920 E. La Palma Ave
Anaheim, California 92807 USA
714-693-0808

## A.81 Philips LPCBB

WAVE form Registration Number (hex): 0x0098

Codec ID in the IANA Namespace: audio/vnd.wave;codec=98 WAVE form wFormatTag ID: WAVE\_FORMAT\_PHILIPS\_LPCBB

Contact:

Kurt Kornmuller
Philips Speech Processing
Computerstrasse 6
Vienna A-1101 Austria

43 1 601 01

## A.82 Packed

WAVE form Registration Number (hex): 0x0099

Codec ID in the IANA Namespace: audio/vnd.wave;codec=99
WAVE form wFormatTag ID: WAVE\_FORMAT\_PACKED

WAVE form wFormatTag ID:
Contact:

Alex Ruegg alex.ruegg@studer.ch

41-1-870-1252

Studer Professional Audio AG Althardstrasse 30

Regensdorf, CH 8105

41-1-870-7252

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#### A.83 Rhetorex ADPCM

WAVE form Registration Number (hex): 0x0100

Codec ID in the IANA Namespace: audio/vnd.wave;codec=100 WAVE form wFormatTag ID: WAVE\_FORMAT\_RHETOREX\_ADPCM

Contact: Roger Dang roger.dang@octel.com 408-371-0881-x195 Rhetorex, Inc. 200 E Hacienda Ave Campbell, California 95008 USA

#### A.84 BeCubed Software's IRAT

WAVE form Registration Number (hex): 0x0101 Codec ID in the IANA Namespace: audio/vnd.wave;codec=101WAVE form wFormatTag ID: WAVE\_FORMAT\_IRAT

WAVEFORMAT name:

Contact:

William J. Locke bill@becubed.com BeCubed Software Inc. 1750 Marietta Hwy STE 240 Canton, GA 30114 USA 770-720-1077

## A.85 Vivo G.723

WAVE form Registration Number (hex):  $0 \times 00111$ 

Codec ID in the IANA Namespace: audio/vnd.wave;codec=111 WAVE form wFormatTag ID: WAVE\_FORMAT\_VIVO\_G723

Contact: Vivo Software

411 Waverley Oaks Road, Suite 313

Waltham, MA 02154 USA

(617) 899-8900

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#### A.86 Vivo Siren

WAVE form Registration Number (hex): 0x0112

Codec ID in the IANA Namespace: audio/vnd.wave;codec=112 WAVE form wFormatTag ID: WAVE\_FORMAT\_VIVO\_SIREN

Contact:
Vivo Software
411 Waverley Oaks Road, Suite 313
Waltham, MA 02154 USA
(617) 899-8900

## A.87 Digital G.723

WAVE form Registration Number (hex):

Codec ID in the IANA Namespace:

WAVE form wFormatTag ID:

Contact:

John Forecast

0x0123

audio/vnd.wave;codec=123

WAVE\_FORMAT\_DIGITAL\_G723

John Forecast forecast@shell.lkg.dec.com 508-486-5264 Digital Equipment Corporation 146 Main Street Maynard, MA 01754-2571 USA 1-800-DIGITAL

## A.88 Creative ADPCM

WAVE form Registration Number (hex): 0x0200

Codec ID in the IANA Namespace: audio/vnd.wave;codec=200 WAVE form wFormatTag ID: WAVE\_FORMAT\_CREATIVE\_ADPCM

Contact:
Peter Ridge
408-428-2366
Creative Labs, Inc
California, USA

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## A.89 Creative FastSpeech8

WAVE form Registration Number (hex): 0x0202 Codec ID in the IANA Namespace: audio/vnd.wave;codec=202 WAVE form wFormatTag ID: WAVE\_FORMAT\_CREATIVE\_FASTSPEECH8

Contact: Peter Ridge 408-428-2366 Creative Labs, Inc California, USA

#### A.90 Creative FastSpeech10

WAVE form Registration Number (hex): 0x0203 Codec ID in the IANA Namespace: audio/vnd.wave;codec=203 WAVE form wFormatTag ID: WAVE\_FORMAT\_ CREATIVE\_FASTSPEECH10

Contact: Peter Ridge 408-428-2366 Creative Labs, Inc California, USA

#### A.91 Quarterdeck

WAVE form Registration Number (hex): 0x0220

Codec ID in the IANA Namespace: audio/vnd.wave;codec=220

WAVE form wFormatTag ID: WAVE FORMAT OUDPTEDECK WAVE form wFormatTag ID: WAVE\_FORMAT\_QUARTERDECK

Contact: Eugene Olsen 310-309-3700 Quarterdeck Corporation 13160 Mindanao Way FL 3

Marina del Rey, California 90292-9705 USA

#### A.92 FM Towns Snd

WAVE form Registration Number (hex): 0x0300

Codec ID in the IANA Namespace: audio/vnd.wave;codec=300 WAVE form wFormatTag ID: WAVE\_FORMAT\_FM\_TOWNS\_SND

Contact:

Fujitsu Corporation

## A.93 BTV Digital

WAVE form Registration Number (hex): 0x0400

Codec ID in the IANA Namespace: audio/vnd.wave;codec=400 WAVE form wFormatTag ID: WAVE\_FORMAT\_BTV\_DIGITAL

Brooktree digital audio format

Contact: Dave Wilson 512-502-1725 Brooktree Corporation 9868 Scranton Road San Diego, California 92121-3707 USA 1-800-228-2777

#### VME VMPCM A.94

WAVE form Registration Number (hex): 0x0680
Codec ID in the IANA Namespace: audio/vnd.wave;codec=680
WAVE form wFormatTag ID: WAVE FORMAT VME VMPCM WAVE form wFormatTag ID: WAVE\_FORMAT\_VME\_VMPCM

Contact:

Tomislav Grcanac (408) 576-1361 AT&T Labs, Inc. 2665 North First Street San Jose, California 95134 USA

## A.95 OLIGSM

WAVE form Registration Number (hex): 0x1000

Codec ID in the IANA Namespace: audio/vnd.wave;codec=1000

WAVE form wFormatTag ID: WAVE\_FORMAT\_OLIGSM

Contact: Harry Sinn

Ing C. Olivetti & C., S.p.A.

Via G. Jervis 77

Via Montalenghe 8 Scarmagno

Ivrea (To) 10015 Italy

39-125-527056

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#### A.96 OLIADPCM

WAVE form Registration Number (hex): 0x1001

Codec ID in the IANA Namespace: audio/vnd.wave;codec=1001 WAVE form wFormatTag ID: WAVE\_FORMAT\_OLIADPCM

Contact: Harry Sinn Ing C. Olivetti & C., S.p.A. Via G. Jervis 77 Via Montalenghe 8 Scarmagno Ivrea (To) 10015 Italy

A.97 OLICELP

39-125-527056

WAVE form Registration Number (hex): 0x1002

Codec ID in the IANA Namespace: audio/vnd.wave;codec=1002

WAVE form wFormatTag ID: WAVE\_FORMAT\_OLICELP

Contact: Harry Sinn Ing C. Olivetti & C., S.p.A. Via G. Jervis 77 Via Montalenghe 8 Scarmagno Ivrea (To) 10015 Italy

39-125-527056 A.98 OLISBC

WAVE form Registration Number (hex): 0x1003

Codec ID in the IANA Namespace: audio/vnd.wave;codec=1003

WAVE\_FORMAT\_OLISBC

WAVE form wFormatTag ID: Contact: Harry Sinn Ing C. Olivetti & C., S.p.A. Via G. Jervis 77 Via Montalenghe 8 Scarmagno Ivrea (To) 10015 Italy 39-125-527056

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#### A.99 OLIOPR

WAVE form Registration Number (hex): 0x1004

Codec ID in the IANA Namespace: audio/vnd.wave;codec=1004

WAVE form wFormatTag ID: WAVE\_FORMAT\_OLIOPR

Contact: Harry Sinn Ing C. Olivetti & C., S.p.A. Via G. Jervis 77

Via Montalenghe 8 Scarmagno

Ivrea (To) 10015 Italy

39-125-527056

A.100 LH Codec

WAVE form Registration Number (hex): 0x1100

Codec ID in the IANA Namespace: audio/vnd.wave;codec=1100

WAVE form wFormatTag ID: WAVE\_FORMAT\_LH\_CODEC

Contact: David Ray Lernout & Hauspie 20 Mall Road Burlington, MA 01803 USA

A.101 Norris

WAVE form Registration Number (hex): 0x1400

Codec ID in the IANA Namespace: audio/vnd.wave;codec=1400

WAVE form wFormatTag ID: WAVE FORMAT NORRIS

Contact: Rick Davis Norris Communications, Inc 12725 Stowe Drive Poway, California 92064 USA 619-679-1504

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#### A.102 ISIAudio

WAVE form Registration Number (hex): 0x1401

Codec ID in the IANA Namespace: audio/vnd.wave;codec=1401 WAVE form wFormatTag ID: WAVE\_FORMAT\_ISIAUDIO

Contact:

Tomislav Grcanac (408) 576-1361 AT&T Labs, Inc. 2665 North First Street San Jose, California 95134 USA

## A.103 Soundspace Music Compression

WAVE form Registration Number (hex): 0x1500

Codec ID in the IANA Namespace: audio/vnd.wave;codec=1500 WAVE form wFormatTag ID: WAVE\_FORMAT\_SOUNDSPACE\_MUSICOMPRESS

Contact:

Tomislav Grcanac (408) 576-1361 AT&T Labs, Inc. 2665 North First Street San Jose, California 95134 USA

## A.104 DVM

WAVE form Registration Number (hex): 0x2000

Codec ID in the IANA Namespace: audio/vnd.wave;codec=2000

WAVE form wFormatTag ID: WAVE FORMAT DVM

Contact: Martin Regen FAST Multimedia AG Lansbergerstrasse 76 Munchen 80339 Germany 49-89-50206-0

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## Appendix B Video Codecs from the Microsoft AVI Registry

### B.1 Intel RDX

Compression Code or FourCC Codec ID: ANIM

Codec ID in the IANA Namespace: video/vnd.avi;codec=ANIM

Description: Intel RDX

Contact:

Intel Corporation

5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA

503-696-2448

## B.2 AuraVision Aura 2

Compression Code or FourCC Codec ID: AUR2

Codec ID in the IANA Namespace: video/vnd.avi;codec=AUR2
Description: AuraVision Aura 2: YUV 422

Bit Depth:
Contact:

Steve Gibson 510-440-7180 Fast Multimedia 47865 Fremont Blvd

Fremont, California 94538 USA

## B.3 AuraVision Aura 1

Compression Code or FourCC Codec ID: AURA

Codec ID in the IANA Namespace: video/vnd.avi;codec=AURA
Description: AuraVision Aura 1: YUV 411

Bit Depth: Contact:

Steve Gibson 510-440-7180 Fast Multimedia 47865 Fremont Blvd

Fremont, California 94538 USA

### B.4 Brooktree MediaStream

Compression Code or FourCC Codec ID: BT20

Codec ID in the IANA Namespace: video/vnd.avi;codec=BT20 Description: Brooktree MediaStream

Contact:
Dave Wilson
512-502-1725

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Brooktree Corporation 9868 Scranton Road San Diego, California 92121-3707 USA

# B.5 Brooktree Composite Video

Compression Code or FourCC Codec ID:
Codec ID in the IANA Namespace:
Description:
Contact:
Dave Wilson
512-502-1725
Brooktree Corporation
9868 Scranton Road
San Diego, California 92121-3707 USA

BTCV

video/vnd.avi;codec=BTCV
Brooktree Composite Video

## B.6 Intel YUV12

Compression Code or FourCC Codec ID:
Codec ID in the IANA Namespace:
Description:
Contact:
Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA

Compression Code or FourCC Codec ID:

video/vnd.avi;codec=CC12
AuraVision Aura 2: Intel YUV12

# B.7 Canopus DV

503-696-2448

Codec ID in the IANA Namespace:
Description:
Contact:
Masayoshi Araki
81-78-992-7812
m-araki@canopus.co.jp
Canopus, Co., Ltd.
Kobe Hi-Tech Park
1-2-2 Murotani, Nishi-ku
Kobe, Hyogo 651-22 Japan

CDVC video/vnd.avi;codec=CDVC

Canopus DV

CC12

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### B.8 Winnov Caviara Cham

Compression Code or FourCC Codec ID: CHAM

Codec ID in the IANA Namespace: video/vnd.avi;codec=CHAM Description: Winnov Caviara Cham

Description:
Contact:
Winnov, Inc.
1230 Oakmead Parkway, Suite 312
Sunnyvale, California 94086 USA
408-733-7419

B.9 Proprietary YUV 4 pixels

Compression Code or FourCC Codec ID: CLJR

Codec ID in the IANA Namespace: video/vnd.avi;codec=CLJR

Description: Proprietary YUV 4 pixels/DWORD

Contact:

Mr Scott MacDonald 512 442-7555 Cirrus Logic

B.10 Common Data Format in Printing

Compression Code or FourCC Codec ID: CMYK

Codec ID in the IANA Namespace: video/vnd.avi;codec=CMYK

Description: Common Data Format in Printing

Bit Depth: 32bits (8 per component)

Contact:

Colorgraph (UK)

2 Mars House, Calleva Park

Aldermaston, Reading, Berkshire RG7 8LB UK

+44-118-9819435

B.11 Weitek 4:2:0 YUV Planar

Compression Code or FourCC Codec ID: CPLA

Codec ID in the IANA Namespace: video/vnd.avi;codec=CPLA Description: Weitek 4:2:0 YUV Planar

Contact:
Weitek

408-522-7541

# B.12 Cinepak by Supermac

Compression Code or FourCC Codec ID: CVID

Codec ID in the IANA Namespace: video/vnd.avi;codec=CVID Description: Cenepac by Supermac

Contact:
Lou Doctor
Supermac

## B.13 Microsoft Color WLT DIB

Compression Code or FourCC Codec ID: CWLT

Codec ID in the IANA Namespace: video/vnd.avi;codec=CWLT Description: Microsoft Color WLT DIB

Bit Depth: Contact: Terri Hendry 425-936-2069

Microsoft Corporation One Microsoft Way Redmond, WA 98052-6399 USA

## B.14 Creative Labs YUV

Compression Code or FourCC Codec ID: CYUV

Codec ID in the IANA Namespace: video/vnd.avi;codec=CYUV

Description: Creative Labs YUV

Contact:
Peter Ridge
408-428-2366
Creative Labs, Inc
California, USA

# B.15 H.261

Compression Code or FourCC Codec ID: D261

Codec ID in the IANA Namespace: video/vnd.avi;codec=D261

Description:

Bit Depth:

24

Bit Depth:
Contact:
John Forecast

forecast@shell.lkg.dec.com

508-486-5264

Digital Equipment Corporation

146 Main Street

Maynard, MA 01754-2571 USA

1-800-DIGITAL

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#### в.16 н.263

Compression Code or FourCC Codec ID: D263

Codec ID in the IANA Namespace: video/vnd.avi;codec=D263

H.263 Video Format Description:

Bit Depth: Contact: John Forecast

forecast@shell.lkg.dec.com

508-486-5264

Digital Equipment Corporation

146 Main Street

Maynard, MA 01754-2571 USA

1-800-DIGITAL

в.17 True Motion 1.0

Compression Code or FourCC Codec ID: DUCK

Codec ID in the IANA Namespace: video/vnd.avi;codec=DUCK

Description: TrueMotion 1.0

Contact: David Silver david@duck.com (212)941-2403The Duck Corporation 375 Greenwich Street

New York, NY 10013 USA

(212) 941-2400

http://www.duck.com/

в.18 DVE-2 Videoconferencing

Compression Code or FourCC Codec ID: DVE2 Codec ID in the IANA Namespace: video

video/vnd.avi;codec=DVE2

Description:

Contact:

Alexander V. Sokolsky

InSoft, Inc.

4718 Old Gettysburg Rd, Suite 307

Mechanicsburg, PA 17055-4378 USA

717-730-9501

DVE-2 Videoconferencing

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### B.19 Field Encoded Motion JPEG

Compression Code or FourCC Codec ID: FLJP

Codec ID in the IANA Namespace: video/vnd.avi;codec=FLJP Description: Field Encoded Motion JPEG With LSI

Bitstream Format

Contact:
Dale Weaver
weaverdm@dvision.com
312-714-1400 -2169
D-Vision Systems, Inc.
8755 W. Higgins, Second Floor
Chicago, IL 60631 USA

# B.20 Fractal Video Frame

Compression Code or FourCC Codec ID: FVF1

Codec ID in the IANA Namespace: video/vnd.avi;codec=FVF1
Description: Fractal Video Frame

Contact:

Iterated Systems, Inc.

5550-a Peachtree Parkway, Suite 650

Norcross, GA 30092 USA

404-840-0633

# B.21 Microsoft Greyscale WLT DIB

Compression Code or FourCC Codec ID: GWLT

Codec ID in the IANA Namespace: video/vnd.avi;codec=GWLT Description: Microsoft Greyscale WLT DIB

Bit Depth: Contact:

Terri Hendry 425-936-2069

Microsoft Corporation One Microsoft Way

Redmond, WA 98052-6399 USA

# B.22 H.260

Compression Code or FourCC Codec ID: H260

Codec ID in the IANA Namespace: video/vnd.avi;codec=H260

Description: H.260

Contact:

Intel Corporation

5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA

503-696-2448

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#### B.23 H.261

Compression Code or FourCC Codec ID: H261

Codec ID in the IANA Namespace: video/vnd.avi;codec=H261

Description: H.261

Contact:

Intel Corporation 5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA

503-696-2448

B.24 H.262

Compression Code or FourCC Codec ID: H262

Codec ID in the IANA Namespace: video/vnd.avi;codec=H262

Description: H.262

Contact:

Intel Corporation

5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA

503-696-2448

B.25 H.263

Compression Code or FourCC Codec ID: H263

Codec ID in the IANA Namespace: video/vnd.avi;codec=H263

Description: H.263
Bit Depth: 12/pixel

Contact:

Intel Corporation

5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA

503-696-2448

B.26 H.264

Compression Code or FourCC Codec ID: H264

Codec ID in the IANA Namespace: video/vnd.avi;codec=H264

Description: H.264

Contact:

Intel Corporation

5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA

503-696-2448

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B.27 H.265

Compression Code or FourCC Codec ID: H265

Codec ID in the IANA Namespace: video/vnd.avi;codec=H265

Description: H.265

Contact:

Intel Corporation 5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA

503-696-2448

B.28 H.266

Compression Code or FourCC Codec ID: H266

Codec ID in the IANA Namespace: video/vnd.avi;codec=H266

Description: H.266

Contact:

Intel Corporation

5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA

503-696-2448

B.29 H.267

Compression Code or FourCC Codec ID: H267

Codec ID in the IANA Namespace: video/vnd.avi;codec=H267

Description: H.267

Contact:

Intel Corporation

5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA

503-696-2448

B.30 H.268

Compression Code or FourCC Codec ID: H268

Codec ID in the IANA Namespace: video/vnd.avi;codec=H268

H.268

Description:

Contact:

Intel Corporation

5200 NE Elam Young Parkway

Hillsboro, Oregon 97124 USA

503-696-2448

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#### в.31 н.260

Compression Code or FourCC Codec ID: H269

Codec ID in the IANA Namespace: video/vnd.avi;codec=H269

Description: н.269

Contact:

Intel Corporation 5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA

503-696-2448

B.32 I263

Compression Code or FourCC Codec ID: I263

Codec ID in the IANA Namespace: video/vnd.avi;codec=I263

Description: Intel I263

Contact:

Intel Corporation

5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA

503-696-2448

B.33 Intel Indeo 4

Compression Code or FourCC Codec ID: I420 Codec ID in the IANA Namespace: video/vnd.avi;codec=I420

Description: Intel Indeo 4

Contact:

Intel Corporation

5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA

503-696-2448

B.34 Intel RDX

Compression Code or FourCC Codec ID: IAN

Codec ID in the IANA Namespace: video/vnd.avi;codec=IAN

Description: Intel RDX

Contact:

Intel Corporation

5200 NE Elam Young Parkway

Hillsboro, Oregon 97124 USA

503-696-2448

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# B.35 CellB Videoconferencing Codec

Compression Code or FourCC Codec ID: ICLB

Codec ID in the IANA Namespace: video/vnd.avi;codec=ICLB
Description: CellB Videoconferencing Codec

Contact:

Alexander V. Sokolsky

InSoft, Inc.

4718 Old Gettysburg Rd, Suite 307 Mechanicsburg, PA 17055-4378 USA 717-730-9501

# B.36 Intel Layered Video

Compression Code or FourCC Codec ID: ILVC

Codec ID in the IANA Namespace: video/vnd.avi;codec=ILVC Description: Intel Layered Video

Contact:

Intel Corporation 5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA 503-696-2448

### B.37 ITU-T H.263+

Compression Code or FourCC Codec ID: ILVR

Codec ID in the IANA Namespace: video/vnd.avi;codec=ILVR

Description: nITU-T's H.263+ compression standard

Contact:

Intel Corporation

5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA

503-696-2448

# B.38 Intel YUV Uncompressed

Compression Code or FourCC Codec ID: IRAW

Codec ID in the IANA Namespace: video/vnd.avi;codec=IRAW Description: Intel YUV uncompressed

Contact:

Intel Corporation

5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA

503-696-2448

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#### в.39 Intel Indeo Video 3

Compression Code or FourCC Codec ID: IV30

Codec ID in the IANA Namespace: video/vnd.avi;codec=IV30 Description: Intel Indeo Video 3

Contact:

Intel Corporation 5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA

503-696-2448

B.40 Intel Indeo Video 3.1

Compression Code or FourCC Codec ID: IV31

Codec ID in the IANA Namespace: video/vnd.avi;codec=IV31 Description: Intel Indeo Video 3.1

Contact:

Intel Corporation 5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA

503-696-2448

B.41 Intel Indeo Video 3.2

Compression Code or FourCC Codec ID: IV32
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV32 Description: Intel Indeo Video 3.2

Contact:

Intel Corporation

5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA

503-696-2448

B.42 Intel Indeo Video 3.3

Compression Code or FourCC Codec ID: IV33

Codec ID in the IANA Namespace: video/vnd.avi;codec=IV33 Intel Indeo Video 3.3

Description: Contact:

Intel Corporation

5200 NE Elam Young Parkway

Hillsboro, Oregon 97124 USA

503-696-2448

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#### B.43 Intel Indeo Video 3.4

Compression Code or FourCC Codec ID: IV34

Codec ID in the IANA Namespace: video/vnd.avi;codec=IV34 Description: Intel Indeo Video 3.4

Contact:

Intel Corporation 5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA 503-696-2448

#### B.44 Intel Indeo Video 3.5

Compression Code or FourCC Codec ID: IV35

Codec ID in the IANA Namespace: video/vnd.avi;codec=IV35 Description: Intel Indeo Video 3.5

Contact:

Intel Corporation 5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA 503-696-2448

## B.45 Intel Indeo Video 3.6

Compression Code or FourCC Codec ID: IV36
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV36 Description: Intel Indeo Video 3.6

Contact:

Intel Corporation 5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA

503-696-2448

#### B.46 Intel Indeo Video 3.7

IV37 Compression Code or FourCC Codec ID:

Codec ID in the IANA Namespace: video/vnd.avi;codec=IV37 Intel Indeo Video 3.7

Description: Contact:

Intel Corporation

5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA

503-696-2448

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#### в.47 Intel Indeo Video 3.8

Compression Code or FourCC Codec ID: IV38

Codec ID in the IANA Namespace: video/vnd.avi;codec=IV38 Description: Intel Indeo Video 3.8

Contact:

Intel Corporation 5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA 503-696-2448

B.48 Intel Indeo Video 3.9

Compression Code or FourCC Codec ID: IV39

Codec ID in the IANA Namespace: video/vnd.avi;codec=IV39 Description: Intel Indeo Video 3.9

Contact:

Intel Corporation 5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA 503-696-2448

B.49 Intel Indeo Video 4.0

Compression Code or FourCC Codec ID: IV40

Codec ID in the IANA Namespace: video/vnd.avi;codec=IV40 Intel Indeo Video 4.0

Description:

Contact:

Intel Corporation 5200 NE Elam Young Parkway

Hillsboro, Oregon 97124 USA

503-696-2448

B.50 Intel Indeo Video 4.1

IV41 Compression Code or FourCC Codec ID:

Codec ID in the IANA Namespace: video/vnd.avi;codec=IV41 Intel Indeo Video 4.1

Description: Contact:

Intel Corporation

5200 NE Elam Young Parkway

Hillsboro, Oregon 97124 USA

503-696-2448

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### B.51 Intel Indeo Video 4.2

Compression Code or FourCC Codec ID: IV42

Codec ID in the IANA Namespace: video/vnd.avi;codec=IV42
Description: Intel Indeo Video 4.2

Contact:

Intel Corporation 5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA 503-696-2448

### B.52 Intel Indeo Video 4.3

Compression Code or FourCC Codec ID: IV43

Codec ID in the IANA Namespace: video/vnd.avi;codec=IV43
Description: Intel Indeo Video 4.3

Contact:

Intel Corporation 5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA 503-696-2448

## B.53 Intel Indeo Video 4.4

Compression Code or FourCC Codec ID: IV44

Codec ID in the IANA Namespace: video/vnd.avi;codec=IV44
Description: Intel Indeo Video 4.4

Contact:

Intel Corporation 5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA 503-696-2448

# B.54 Intel Indeo Video 4.5

Compression Code or FourCC Codec ID: IV45

Codec ID in the IANA Namespace: video/vnd.avi;codec=IV45
Description: Intel Indeo Video 4.5

Description: Contact:

Intel Corporation

5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA

503-696-2448

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#### B.55 Intel Indeo Video 4.6

Compression Code or FourCC Codec ID: IV46

Codec ID in the IANA Namespace: video/vnd.avi;codec=IV46 Description: Intel Indeo Video 4.6

Contact:

Intel Corporation 5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA 503-696-2448

B.56 Intel Indeo Video 4.7

Compression Code or FourCC Codec ID: IV47

Codec ID in the IANA Namespace: video/vnd.avi;codec=IV47 Description: Intel Indeo Video 4.7

Contact:

Intel Corporation 5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA 503-696-2448

B.57 Intel Indeo Video 4.8

Compression Code or FourCC Codec ID: IV48
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV48 Description: Intel Indeo Video 4.8

Contact:

Intel Corporation 5200 NE Elam Young Parkway

Hillsboro, Oregon 97124 USA

503-696-2448

B.58 Intel Indeo Video 4.9

IV49 Compression Code or FourCC Codec ID:

Codec ID in the IANA Namespace: video/vnd.avi;codec=IV49 Intel Indeo Video 4.9

Description:

Contact:

Intel Corporation

5200 NE Elam Young Parkway

Hillsboro, Oregon 97124 USA

503-696-2448

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### B.59 Intel Indeo Video 5.0

Compression Code or FourCC Codec ID: IV50

Codec ID in the IANA Namespace: video/vnd.avi;codec=IV50 Description: Intel Indeo Video 5.0 Bit Depth: 8, 16, 24, 32

Contact:

Intel Corporation

5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA

503-696-2448

# B.60 Still Image JPEG DIB

Compression Code or FourCC Codec ID: JPEG

Codec ID in the IANA Namespace: video/vnd.avi;codec=JPEG Description: Still Image JPEG DIB

Contact: Terri Hendry 425-936-2069

Microsoft Corporation
One Microsoft Way

Redmond, WA 98052-6399 USA

## B.61 Motion JPEG DIB

Compression Code or FourCC Codec ID: MJPG

Codec ID in the IANA Namespace: video/vnd.avi;codec=MJPG Description: Motion JPEG DIB Format Bit Depth: 24, 8

Bit Depth: Contact:

Terri Hendry 425-936-2069

Microsoft Corporation
One Microsoft Way

Redmond, WA 98052-6399 USA

## B.62 Microsoft MPEG-4 Video Codec

Compression Code or FourCC Codec ID: MP42

Codec ID in the IANA Namespace: video/vnd.avi;codec=MP42
Description: Microsoft MPEG-4 Video Codec V2

Contact: Terri Hendry 425-936-2069

Microsoft Corporation
One Microsoft Way

Redmond, WA 98052-6399 USA

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### B.63 MPEG 1 Video Frame

Compression Code or FourCC Codec ID: MPEG

Codec ID in the IANA Namespace: video/vnd.avi;codec=MPEG Description: MPEG 1 Video I Frame Contact:

Greg Stiehl
stiehl@chromatic.com

Chromatic Research, Inc 615 Tasman Dr Sunnyvale, California 94089 USA 408-752-9100

## B.64 MR Codec

Compression Code or FourCC Codec ID: MRCA

Codec ID in the IANA Namespace: video/vnd.avi;codec=MRCA

Description: MR Codec

Contact:
Martin Regen
49/89/50206-252
FAST Multimedia AG
Lansbergerstrasse 76
Munchen 80339 Germany
49/89/50206-0

# B.65 Run Length Encoding

Compression Code or FourCC Codec ID: MRLE

Codec ID in the IANA Namespace: video/vnd.avi;codec=MRLE Description: Run Length Encoding

Description: Contact:

Terri Hendry, 425-936-2069 Microsoft Corporation One Microsoft Way Redmond, WA 98052-6399 USA

## B.66 Video 1

Compression Code or FourCC Codec ID: MSVC

Codec ID in the IANA Namespace: video/vnd.avi;codec=MSVC

Description: Microsoft Video 1

Contact:

Terri Hendry, 425-936-2069 Microsoft Corporation One Microsoft Way Redmond, WA 98052-6399 USA

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### B.67 Photomotion

Compression Code or FourCC Codec ID: PHMO

Codec ID in the IANA Namespace: video/vnd.avi;codec=PHMO

Description: Photomotion

Contact:

IBM Corporation

B.68 QPEG 1.1 Format Video

Compression Code or FourCC Codec ID: qpeq

Codec ID in the IANA Namespace: video/vnd.avi;codec=qpeq
Description: QPEG 1.1 Format Video Codec

Description: Contact:

0049.2161.6181.0

O-Team

Dr. Knabe

Brauereistr. 11

D-41352 Korschenbroich Germany

0049.2161.6181.0

B.69 RGBT

Compression Code or FourCC Codec ID: RGBT

Codec ID in the IANA Namespace: video/vnd.avi;codec=RGBT

Description: 32 bits support

Contact:
Andy Pennell

Computer Concepts Ltd.

Gaddesden Place

Hemel Hempstead, Herts HP2 6EX UK

44 1442 63933

B.70 Run Length Encoded 4

Compression Code or FourCC Codec ID: RLE4

Codec ID in the IANA Namespace: video/vnd.avi;codec=RLE4
Description: Run Length Encoded 4

Description:
Bit Depth:
Contact:
Terri Hendry
425-936-2069

Microsoft Corporation

One Microsoft Way

Redmond, WA 98052-6399 USA

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## B.71 Run Length Encoded 8

Compression Code or FourCC Codec ID: RLE8

Codec ID in the IANA Namespace: video/vnd.avi;codec=RLE8
Description: Run Length Encoded 8

Bit Depth:
Contact:

Terri Hendry, 425-936-2069 Microsoft Corporation One Microsoft Way Redmond, WA 98052-6399 USA

B.72 Indeo 2.1

Compression Code or FourCC Codec ID: RT21

Codec ID in the IANA Namespace: video/vnd.avi;codec=RT21

Description: Indeo 2.1

Contact:

Intel Corporation 5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA 503-696-2448

B.73 Intel RDX

Compression Code or FourCC Codec ID: RVX

Codec ID in the IANA Namespace: video/vnd.avi;codec=RVX

Description: Intel RDX

Contact:

Intel Corporation

5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA

503-696-2448

B.74 Sun Digital Camera Codec

Compression Code or FourCC Codec ID: SDCC

Codec ID in the IANA Namespace: video/vnd.avi;codec=SDCC Description: Sun Digital Camera Codec

Contact:
Hideki Inoue

hinoue@sun-denshi.co.jp Sun Communications, Inc.

GLORIA Bld. 6F, 1-3, AGEBA-CHO, SHINJYUKU-KU

Tokyo 162 Japan 81-3-5261-1801

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#### B.75 Crystal Net SFM Codec

Compression Code or FourCC Codec ID: SFMC

Codec ID in the IANA Namespace: video/vnd.avi;codec=SFMC Description: Crystal Net SFM Codec

Contact:

Dr. Itzhak Levit Crystal Net Corporation 1485 Saratoga Ave. San Jose, California 95129 USA 408-446-2966

в.76 SMSC

Compression Code or FourCC Codec ID: SMSC

Codec ID in the IANA Namespace: video/vnd.avi;codec=SMSC

Description: SMSC

Contact:

Lee Boekelheide Radius (USA) 503-968-1270

B.77 SMSD

Compression Code or FourCC Codec ID: SMSD

Codec ID in the IANA Namespace: video/vnd.avi;codec=SMSD

SMSD Description:

Contact:

Lee Boekelheide Radius (USA) 503-968-1270

B.78 Splash Studios ACM Audio Codec

Compression Code or FourCC Codec ID: SPLC

Codec ID in the IANA Namespace: audio/vnd.wave;codec=SPLC Splash Studios ACM Audio Codec

Description: Contact:

Mark Cutter Splash Studios

8573 154th Avenue NE Redmond, WA 98052 USA

425-882-0300

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### B.79 Microsoft VXtreme Video Codec

Compression Code or FourCC Codec ID: SQZ2

Codec ID in the IANA Namespace: video/vnd.avi;codec=SQZ2
Description: Microsoft Vxtreme Video Codec V2

Contact:
Terri Hendry
425-936-2069
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA

## B.80 Sorenson Video R1

Compression Code or FourCC Codec ID: SV10

Codec ID in the IANA Namespace: video/vnd.avi;codec=SV10

Description: Sorenson Video R1

Contact:
Evan Hillman
ehillman@s-vision.com
Sorenson Vision
570 East Research Park Way
Logan, Utah 84341 USA
801-792-1114

# B.81 TeraLogic Motion Infraframe Codec A

Compression Code or FourCC Codec ID: TLMS

Codec ID in the IANA Namespace: video/vnd.avi;codec=TLMS
Description: TeraLogic Motion Intraframe Codec

Contact:
Charles Chui
chui@teralogic-inc.com
650-526-6003
TeraLogic, Inc.
707 California Street
Mountain View, California 94041 USA
650-526-2000

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#### B.82 TeraLogic Motion Infraframe Codec B

Compression Code or FourCC Codec ID: TLST

Codec ID in the IANA Namespace: video/vnd.avi;codec=TLST Description: TeraLogic Motion Intraframe Codec

Contact: Charles Chui chui@teralogic-inc.com 650-526-6003 TeraLogic, Inc. 707 California Street Mountain View, California 94041 USA

# B.83 TrueMotion 2.0

650-526-2000

Compression Code or FourCC Codec ID: TM20

Codec ID in the IANA Namespace: video/vnd.avi;codec=TM20

TrueMotion 2.0 Description:

Contact: David Silver david@duck.com (212) 941-2403 The Duck Corporation 375 Greenwich Street New York, New York 10013 USA (212) 941-2400

#### B.84 TeraLogic Motion Intraframe Codec 2

Compression Code or FourCC Codec ID: TMIC

Codec ID in the IANA Namespace: video/vnd.avi;codec=TMIC Description: TeraLogic Motion Intraframe Codec 2

Contact: Charles Chui chui@teralogic-inc.com 650-526-6003 TeraLogic, Inc. 707 California Street Mountain View, California 94041 USA

650-526-2000

# B.85 TrueMotion Video Compression

Compression Code or FourCC Codec ID: tmot

Codec ID in the IANA Namespace: video/vnd.avi;codec=tmot
Description: True Motion Video Compression

Description:
Contact:

Glen D. Johnson

Horizons Technology, Inc

3990 Ruffin Road

San Diego, California 92123 USA

619-292-8331

B.86 TrueMotion RT 2.0

Compression Code or FourCC Codec ID: TR20

Codec ID in the IANA Namespace: video/vnd.avi;codec=TR20

Description: TrueMotionRT 2.0

Contact: David Silver david@duck.com (212) 941-2403

The Duck Corporation 375 Greenwich Street

New York, New York 10013 USA

(212) 941-2400

B.87 Ultimotion

Compression Code or FourCC Codec ID: ULTI

Codec ID in the IANA Namespace: video/vnd.avi;codec=ULTI

Description: Ultimotion

Contact:

IBM Corporation

B.88 UYVY 4:2:2 byte ordering

Compression Code or FourCC Codec ID: UYVY

Codec ID in the IANA Namespace: video/vnd.avi;codec=UYVY Description: UYVY 4:2:2 byte ordering

16

Description: Bit Depth:

Contact: Terri Hendry 425-936-2069

Microsoft Corporation One Microsoft Way

Redmond, WA 98052-6399 USA

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#### в.89 24 bit YUV 4:2:2 Format

Compression Code or FourCC Codec ID: V422

Codec ID in the IANA Namespace: video/vnd.avi;codec=V422 24 bit YUV 4:2:2 format (CCIR 601). Description:

For this format, 2 consecutive pixels are represented by a 32 bit (4  $\,$ 

byte) Y1UY2V color value.

Contact: Gueirard RJ 33 1 46 29 0300 Vitec Multimedia 99 rue Pierre Semard F-92320 Chatillon France

33-1-46-73-06-06

#### 16 bit YUV 4:2:2 Format B.90

V655

Compression Code or FourCC Codec ID: V655
Codec ID in the IANA Namespace: video/vnd.avi;codec=V655 16 bit YUV 4:2:2 Format Codec

Description:

Contact: Gueirard RJ 33 1 46 29 0300 Vitec Multimedia 99 rue Pierre Semard F-92320 Chatillon France 33-1-46-73-06-06

#### в.91 ATI VCR 1.0

Compression Code or FourCC Codec ID: VCR1

Codec ID in the IANA Namespace: video/vnd.avi;codec=VCR1

ATI VCR 1.0

Description:

Contact: Ivan Yang Ivan@atitech.ca 905-882-2600 x3243 ATI Technologies Inc. 33 Commerce Valley Dr. E. Thornhill, Ontario L3T 7N6 Canada 905-882-2600

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# B.92 ATI VCR 2.0

Compression Code or FourCC Codec ID: VCR2

Codec ID in the IANA Namespace: video/vnd.avi;codec=VCR2

Description: ATI VCR 2.0

Contact: Ivan Yang Ivan@atitech.ca 905-882-2600 x3243 ATI Technologies Inc. 33 Commerce Valley Dr. E. Thornhill, Ontario L3T 7N6 Canada 905-882-2600

ATI VCR 3.0 B.93

Compression Code or FourCC Codec ID: VCR3

Codec ID in the IANA Namespace: video/vnd.avi;codec=VCR3

ATI VCR 3.0

Description: Contact: Ivan Yang Ivan@atitech.ca 905-882-2600 x3243 ATI Technologies Inc. 33 Commerce Valley Dr. E. Thornhill, Ontario L3T 7N6 Canada 905-882-2600

B.94 ATI VCR 4.0

Compression Code or FourCC Codec ID: VCR4

Codec ID in the IANA Namespace: video/vnd.avi;codec=VCR4

Description: ATI VCR 4.0

Contact: Ivan Yang Ivan@atitech.ca 905-882-2600 x3243 ATI Technologies Inc. 33 Commerce Valley Dr. E. Thornhill, Ontario L3T 7N6 Canada 905-882-2600

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## B.95 ATI VCR 5.0

Compression Code or FourCC Codec ID: VCR5

Codec ID in the IANA Namespace: video/vnd.avi;codec=VCR5

Description: ATI VCR 5.0

Contact: Ivan Yang Ivan@atitech.ca 905-882-2600 x3243 ATI Technologies Inc. 33 Commerce Valley Dr. E. Thornhill, Ontario L3T 7N6 Canada 905-882-2600

ATI VCR 6.0 B.96

Compression Code or FourCC Codec ID: VCR6

Codec ID in the IANA Namespace: video/vnd.avi;codec=VCR6

ATI VCR 6.0

Description: Contact: Ivan Yang Ivan@atitech.ca 905-882-2600 x3243 ATI Technologies Inc. 33 Commerce Valley Dr. E. Thornhill, Ontario L3T 7N6 Canada 905-882-2600

B.97 ATI VCR 7.0

Compression Code or FourCC Codec ID: VCR7

Codec ID in the IANA Namespace: video/vnd.avi;codec=VCR7

Description: ATI VCR 7.0 Contact:

Ivan Yang Ivan@atitech.ca 905-882-2600 x3243 ATI Technologies Inc. 33 Commerce Valley Dr. E.

Thornhill, Ontario L3T 7N6 Canada

905-882-2600

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# B.98 ATI VCR 8.0

Compression Code or FourCC Codec ID: VCR8

Codec ID in the IANA Namespace: video/vnd.avi;codec=VCR8

Description: ATI VCR 8.0

Contact: Ivan Yang Ivan@atitech.ca 905-882-2600 x3243 ATI Technologies Inc. 33 Commerce Valley Dr. E. Thornhill, Ontario L3T 7N6 Canada 905-882-2600

ATI VCR 9.0 В.99

Compression Code or FourCC Codec ID: VCR9

Codec ID in the IANA Namespace: video/vnd.avi;codec=VCR9

ATI VCR 9.0

Description: Contact: Ivan Yang Ivan@atitech.ca 905-882-2600 x3243 ATI Technologies Inc. 33 Commerce Valley Dr. E. Thornhill, Ontario L3T 7N6 Canada 905-882-2600

B.100 Video Maker Pro DIB

Compression Code or FourCC Codec ID: VDCT

Codec ID in the IANA Namespace: video/vnd.avi;codec=VDCT Video Maker Pro DIB

Description: Bit Depth: Contact: Gueirard RJ 33 1 46 29 0300 Vitec Multimedia 99 rue Pierre Semard F-92320 Chatillon France

33-1-46-73-06-06

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## B.101 YUV 4:2:2 CCIR 601 for V422

Compression Code or FourCC Codec ID: VIDS

Codec ID in the IANA Namespace: video/vnd.avi;codec=VIDS YUV 4:2:2 CCIR for V422 Description: 24, 16

Bit Depth: Contact: Gueirard RJ 33 1 46 29 0300 Vitec Multimedia 99 rue Pierre Semard F-92320 Chatillon France 33-1-46-73-06-06

B.102 Vivo H.263

Compression Code or FourCC Codec ID: VIVO (Note: it is also

registered as vivo)

Codec ID in the IANA Namespace: video/vnd.avi;codec=VIVO

(Note: it is also registered as video/vnd.avi;codec=vivo)

Vivo H.263 Description:

Bit Depth: 16

Contact: Vivo Software

411 Waverley Oaks Road, Suite 313

Waltham, MA 02154 USA

(617) 899-8900

B.103 VIXL

Compression Code or FourCC Codec ID: VIXL

Codec ID in the IANA Namespace: video/vnd.avi;codec=VIXL Description: for use with the miro video

8, 16, 24

and movie products

Bit Depth: Contact:

Matthias Huebner 49-531-2113-519

Miro Computer Products AG

Carl-Miele-Strasse 4

49-531-2113-0

Braunsweig 38112 Germany

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### B.104 VLCAP.DRV

Compression Code or FourCC Codec ID: VLV1

Codec ID in the IANA Namespace: video/vnd.avi;codec=VLV1

Description: VLCAP.DRV

Contact: Videologic Home Park Estate Kings Langley WD4 8LZ UK 44923260511

B.105 W9960

Compression Code or FourCC Codec ID: WBVC

Codec ID in the IANA Namespace: video/vnd.avi;codec=WBVC

Description: W9960

Description:
Contact:
Jason Lin
JLLIN@winbond.com.tw
Winbond Electronics Corp
PG41, No. 9, Li Hsin Rd.
Science-Based Industrial Park
Hsinchu, Taiwan

886-3-5790666 x6641

B.106 mmioFOURCC('X",'2','6','3')

Compression Code or FourCC Codec ID: X263

Codec ID in the IANA Namespace: video/vnd.avi;codec=X263
Description: mmioFOURCC('X",'2','6','3')

Bit Depth: 12 bits/pixel Contact:
Min-Hsiung Lin

Min.Lin@xirlink.com
Xirlink, Inc.
2210 O'Toole Ave.

San Jose, California 95131 USA

408-324-2100

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### B.107 XL Video Decoder

Compression Code or FourCC Codec ID: XLV0

Codec ID in the IANA Namespace: video/vnd.avi;codec=XLV0
Description: PC1 4:1:1 with transparency

Contact:
Gary Grandbois

48521 Warm Springs Blvd., Suite 310 Fremont, California 94539 USA

510-445-8734

NetXL, Inc

B.108 YUV 2:1:1 Packed

Compression Code or FourCC Codec ID: Y211

Codec ID in the IANA Namespace: video/vnd.avi;codec=Y211

Description: YUV 2:1:1 Packed

Bit Depth: Contact:

Terri Hendry, 425-936-2069 Microsoft Corporation One Microsoft Way

Redmond, WA 98052-6399 USA

B.109 YUV 4:1:1 Packed

Compression Code or FourCC Codec ID: Y411

Codec ID in the IANA Namespace: video/vnd.avi;codec=Y411

Description: YUV 4:1:1 Packed Bit Depth: 16

Bit Depth: Contact:

Terri Hendry, 425-936-2069 Microsoft Corporation One Microsoft Way Redmond, WA 98052-6399 USA

B.110 YUV 4:1:1 Planar

Compression Code or FourCC Codec ID: Y41B

Codec ID in the IANA Namespace: video/vnd.avi;codec=Y41B

Description: YUV 4:1:1 Planar

Contact: 408-522-7541 Weitek (USA)

# B.111 PC1 4:1:1

Compression Code or FourCC Codec ID: Y41P

Codec ID in the IANA Namespace: video/vnd.avi;codec=Y41P

Description: PC1 4:1:1
Bit Depth: 12

Bit Depth: Contact: Dave Wilson 512-502-1725

Brooktree Corporation 9868 Scranton Road

San Diego, California 92121-3707 USA

1-800-228-2777

B.112 PC1 4:1:1 with transparency

Compression Code or FourCC Codec ID: Y41T

Codec ID in the IANA Namespace: video/vnd.avi;codec=Y41T Description: PC1 4:1:1 with transparency

12

YUV 4:2:2 Planar

Bit Depth:

Contact:
Dave Wilson
512-502-1725

Brooktree Corporation 9868 Scranton Road

San Diego, California 92121-3707 USA

1-800-228-2777

B.113 YUV 4:2:2 Planar

Compression Code or FourCC Codec ID: Y42B

Codec ID in the IANA Namespace: video/vnd.avi;codec=Y42B

Description:
Contact:

Weitek (USA) 408-522-7541

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# B.114 PCI 4:2:2 with transparency

Compression Code or FourCC Codec ID: Y42T

Codec ID in the IANA Namespace: video/vnd.avi;codec=Y42T Description: PCI 4:2:2 with transparency Bit Depth: 12

Contact: Dave Wilson 512-502-1725 Brooktree Corporation

9868 Scranton Road San Diego, California 92121-3707 USA

1-800-228-2777

B.115 Intel YUV12 Codec

Compression Code or FourCC Codec ID: YC12

Codec ID in the IANA Namespace: video/vnd.avi;codec=YC12 Intel YUV12 Codec

Description:

Contact:

Intel Corporation

5200 NE Elam Young Parkway Hillsboro, Oregon 97124 USA

503-696-2448

B.116 Winnov Caviar YUV8

Compression Code or FourCC Codec ID: YUV8

Codec ID in the IANA Namespace: video/vnd.avi;codec=YUV8

Description: Winnov Caviar YUV8

Contact: Winnov, Inc.

1230 Oakmead Parkway, Suite 312 Sunnyvale, California 94086

408-733-7419

B.117 YUV9

Compression Code or FourCC Codec ID: YUV9

Codec ID in the IANA Namespace: video/vnd.avi;codec=YUV9

Description: YUV9

Contact:

Intel Corporation

5200 NE Elam Young Parkway

Hillsboro, Oregon 97124 USA

503-696-2448

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# B.118 YUYV 4:2:2 byte ordering packed

Compression Code or FourCC Codec ID: YUY2

Codec ID in the IANA Namespace: video/vnd.avi;codec=YUY2

Description: YUYV 4:2:2 byte ordering packed

Bit Depth: 16

Contact:

Microsoft Corporation One Microsoft Way

Redmond, WA 98052-6399 USA

B.119 BI\_YUYV, Canopus

Compression Code or FourCC Codec ID: YUYV

Codec ID in the IANA Namespace: video/vnd.avi;codec=YUYV

Description: BI\_YUYV, Canopus

Bit Depth:

Contact:

Masayoshi Araki

m-araki@canopus.co.jp

81-78-992-7812

Canopus, Co., Ltd.

Kobe Hi-Tech Park

1-2-2 Murotani, Nishi-ku

Kobe, Hyogo 651-22 Japan

B.120 YVU12 Planar

Compression Code or FourCC Codec ID: YV12

Codec ID in the IANA Namespace: video/vnd.avi;codec=YV12

Description: YVU12 Planar

Contact: Weitek

408-522-7541

B.121 YVU9 Planar

Compression Code or FourCC Codec ID: YVU9

Codec ID in the IANA Namespace: video/vnd.avi;codec=YVU9

Description: YVU9 Planar

Bit Depth:

Contact:

Intel Corporation

5200 NE Elam Young Parkway

Hillsboro, Oregon 97124 USA

503-696-2448

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# B.122 YVYU 4:2:2 byte ordering

Compression Code or FourCC Codec ID: YVYU
Codec ID in the IANA Namespace: video/vnd.avi;codec=YUV9

YVYU Description: Bit Depth: 16

Contact:

Microsoft Corporation One Microsoft Way Redmond, WA 98052-6399 USA

B.123 Video Zipper

ZPEG

Compression Code or FourCC Codec ID:
Codec ID in the IANA Namespace: video/vnd.avi;codec=ZPEG Description: for the Video Zipper

Contact: Metheus

1600 NW Compton Drive

Beaverton, Oregon 97006-6905 USA

503-690-1550

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