                        WAVE and AVI Codec Registries

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

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
XXXXXXXX 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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   Phone: 425-865-2424
   EMail: Eric.Fleischman@PSS.Boeing.com

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.

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

   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

   A.6   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

   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
   Sierra Semiconductor Corp
   2075 North Capitol Avenue
   San Jose, California 95132 USA
   408-263-9300

   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):   0x0019
Codec ID in the IANA Namespace: 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):   0x0021
Codec ID in the IANA Namespace: audio/vnd.wave;codec=21
WAVE form wFormatTag ID: WAVE_FORMAT_SONARC
Contact:
Speech Compression

   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

   WAVE form Registration Number (hex):   0x0023
   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

   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
   Codec ID in the IANA Namespace: audio/vnd.wave;codec=27
   WAVE form wFormatTag ID: WAVE_FORMAT_PROSODY_1612
   Additional Information: Prosody CTI Speech Card
   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

   WAVE form Registration Number (hex):   0x0028
   Codec ID in the IANA Namespace: audio/vnd.wave;codec=28
   WAVE form wFormatTag ID: WAVE_FORMAT_LRC
   Contact:
   Patrick Wassmer
   pwassmer@merging.com
   +41 21 931 50 11
   Merging Technologies S.A.
   Le Verney, E
   Puidoux, Switzerland CH-1604

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

   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 form wFormatTag ID: WAVE_FORMAT_DIGIADPCM
   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 form wFormatTag ID: WAVE_FORMAT_CONTROL_RES_CR10
   Contact:
   Charles Larson
   Control Resources Limited
   PO Box 8694
   Roland Heights, California 91748 USA
   818-912-5722

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

    A.42   Antex Electronics G.721

    WAVE form Registration Number (hex):   0x0040
    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

   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

   WAVE form Registration Number (hex):   0x0042
   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: WAVE_FORMAT_MPEG
   Contact:
   Terri Hendry, 425-936-2069
   Microsoft Corporation
   One Microsoft Way
   Redmond, WA 98052-6399 USA

   A.46   RT24

WAVE form Registration Number (hex):   0x0052
Codec ID in the IANA Namespace: 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):   0x0053
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

WAVE form Registration Number (hex):   0x0055
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
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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/vnd.wave;codec=61
WAVE form wFormatTag ID:                WAVE_FORMAT_ESPCM
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
```

   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 form wFormatTag ID: WAVE_FORMAT_G722_ADPCM
   Contact:
   Jean-Claude Anaya
   100433.3121@compuserve.com
   (33) 57-26-99-24
   APICOM
   218, Avenue du Haut-Leveque
   Pessac France 33605

   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

   WAVE form Registration Number (hex):   0x0067
   Codec ID in the IANA Namespace: 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

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):   0x0074
   Codec ID in the IANA Namespace: 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
   Additional Information: file and stream oriented
   Contact:
   Lee Stewart
   lees@voxware.com
   Voxware Inc.
   172 Tamarack Circle
   Skillman, NJ 08558 USA

   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
Codec ID in the IANA Namespace: 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

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 form wFormatTag ID: WAVE_FORMAT_DF_GSM610
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_ISIAUDIO
Contact:
Iterated Systems, Inc.
5550-a Peachtree Parkway
Suite 650
Norcross, GA 30092 USA
404-840-0633

   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 - 3595
   OnLive! 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
   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/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

     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
   Contact:
   Alex Ruegg
   alex.ruegg@studer.ch
   41-1-870-1252
   Studer Professional Audio AG
   Althardstrasse 30
   Regensdorf, CH 8105
   41-1-870-7252

   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=101
   WAVE 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):   0x00111
   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

   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):   0x0123
   Codec ID in the IANA Namespace: audio/vnd.wave;codec=123
   WAVE form wFormatTag ID: WAVE_FORMAT_DIGITAL_G723
   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

   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

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_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
Additional Information: 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

A.94   VME VMPCM

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
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

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
39-125-527056

A.97   OLICELP

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 form wFormatTag ID: WAVE_FORMAT_OLISBC
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.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

   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

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: 8
   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: 6
   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

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

B.5   Brooktree Composite Video

Compression Code or FourCC Codec ID: BTCV
Codec ID in the IANA Namespace: video/vnd.avi;codec=BTCV
Description: Brooktree Composite Video
Contact:
Dave Wilson
512-502-1725
Brooktree Corporation
9868 Scranton Road
San Diego, California 92121-3707 USA

B.6   Intel YUV12

Compression Code or FourCC Codec ID: CC12
Codec ID in the IANA Namespace: video/vnd.avi;codec=CC12
Description: AuraVision Aura 2: Intel YUV12
Contact:
Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.7   Canopus DV

Compression Code or FourCC Codec ID: CDVC
Codec ID in the IANA Namespace: video/vnd.avi;codec=CDVC
Description: Canopus DV
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

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
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: 24
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: H.261 Video Format
Bit Depth: 24
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

B.16   H.263

```
Compression Code or FourCC Codec ID:      D263
Codec ID in the IANA Namespace:           video/vnd.avi;codec=D263
Description:                              H.263 Video Format
Bit Depth:                                24
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
```

B.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)941-2403
The Duck Corporation
375 Greenwich Street
New York, NY 10013 USA
(212) 941-2400
http://www.duck.com/
```

B.18   DVE-2 Videoconferencing

```
Compression Code or FourCC Codec ID:      DVE2
Codec ID in the IANA Namespace:           video/vnd.avi;codec=DVE2
Description:                              DVE-2 Videoconferencing
Contact:
Alexander V. Sokolsky
InSoft, Inc.
4718 Old Gettysburg Rd, Suite 307
Mechanicsburg, PA 17055-4378 USA
717-730-9501
```

   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: 8
   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

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
```

   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
   Description: H.268
   Contact:
   Intel Corporation
   5200 NE Elam Young Parkway
   Hillsboro, Oregon 97124 USA
   503-696-2448

B.31   H.260

Compression Code or FourCC Codec ID: H269
Codec ID in the IANA Namespace: video/vnd.avi;codec=H269
Description: H.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

   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

B.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
Description: Intel Indeo Video 3.3
Contact:
Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

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

Compression Code or FourCC Codec ID: IV37
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV37
Description: Intel Indeo Video 3.7
Contact:
Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.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
Description: Intel Indeo Video 4.0
Contact:
Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

B.50   Intel Indeo Video 4.1

Compression Code or FourCC Codec ID: IV41
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV41
Description: Intel Indeo Video 4.1
Contact:
Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

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

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

Compression Code or FourCC Codec ID: IV49
Codec ID in the IANA Namespace: video/vnd.avi;codec=IV49
Description: Intel Indeo Video 4.9
Contact:
Intel Corporation
5200 NE Elam Young Parkway
Hillsboro, Oregon 97124 USA
503-696-2448

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
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

   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
   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

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
Contact:
Dr. Knabe
0049.2161.6181.0
Q-Team
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
Bit Depth: 4
Contact:
Terri Hendry
425-936-2069
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA

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:                                8
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
```

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

B.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
Description: SMSD
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
Description: Splash Studios ACM Audio Codec
Contact:
Mark Cutter
Splash Studios
8573 154th Avenue NE
Redmond, WA 98052 USA
425-882-0300

   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 Inframe 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

   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
650-526-2000

   B.83   TrueMotion 2.0

Compression Code or FourCC Codec ID: TM20
Codec ID in the IANA Namespace: video/vnd.avi;codec=TM20
Description: TrueMotion 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.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
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
Bit Depth: 16
Contact:
Terri Hendry
425-936-2069
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA

B.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
Description: 24 bit YUV 4:2:2 format (CCIR 601).
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

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

Compression Code or FourCC Codec ID: V655
Codec ID in the IANA Namespace: video/vnd.avi;codec=V655
Description: 16 bit YUV 4:2:2 Format Codec
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.91   ATI VCR 1.0

Compression Code or FourCC Codec ID: VCR1
Codec ID in the IANA Namespace: video/vnd.avi;codec=VCR1
Description: ATI VCR 1.0
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

   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

   B.93   ATI VCR 3.0

   Compression Code or FourCC Codec ID: VCR3
   Codec ID in the IANA Namespace: video/vnd.avi;codec=VCR3
   Description: ATI VCR 3.0
   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

   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

   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

   B.96   ATI VCR 6.0

   Compression Code or FourCC Codec ID: VCR6
   Codec ID in the IANA Namespace: video/vnd.avi;codec=VCR6
   Description: ATI VCR 6.0
   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

   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

   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

   B.99   ATI VCR 9.0

   Compression Code or FourCC Codec ID: VCR9
   Codec ID in the IANA Namespace: video/vnd.avi;codec=VCR9
   Description: ATI VCR 9.0
   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

   B.100   Video Maker Pro DIB

   Compression Code or FourCC Codec ID: VDCT
   Codec ID in the IANA Namespace: video/vnd.avi;codec=VDCT
   Description: Video Maker Pro DIB
   Bit Depth: 16
   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.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
   Description: YUV 4:2:2 CCIR for V422
   Bit Depth: 24, 16
   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)
   Description: Vivo H.263
   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
   and movie products
   Bit Depth: 8, 16, 24
   Contact:
   Matthias Huebner
   49-531-2113-519
   Miro Computer Products AG
   Carl-Miele-Strasse 4
   Braunsweig 38112 Germany
   49-531-2113-0

   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
   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

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
NetXL, Inc
48521 Warm Springs Blvd., Suite 310
Fremont, California 94539 USA
510-445-8734

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: 8
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
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
   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
   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.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: YUV 4:2:2 Planar
   Contact:
   Weitek (USA)
   408-522-7541

   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
   Description: Intel YUV12 Codec
   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

   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: 16
   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: 9
   Contact:
   Intel Corporation
   5200 NE Elam Young Parkway
   Hillsboro, Oregon 97124 USA
   503-696-2448

   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
Description: YVYU
Bit Depth: 16
Contact:
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399 USA

   B.123   Video Zipper

Compression Code or FourCC Codec ID: ZPEG
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

C. Full Copyright Statement