Advanced Audio Distribution Profile (A2DP)

***Bluetooth*® Implementation Conformance Statement (ICS) Proforma**

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Contents

1 General principles

1.1 Implementation Under Test (IUT) identification

Using the Bluetooth SIG qualification tool, the implementer is expected to declare details about what will be implemented.

1.2 Enforcement of inter-layer dependencies

This ICS includes one or more tables with inter-layer dependencies (ILDs). ILDs are used for specification requirements that are dependent on other supporting specifications. ILDs can refer to an individual ICS item in a separate layer (individual ILD), or it can refer to the full layer (full-layer ILD).

ILDs residing in an X2Core layer will be enforced from the Bluetooth SIG qualification tool in the following conditions, depending on where the referred ILD is residing:

Referred ILD resides in	Individual ILD	Full-layer ILD
Controller layer	Core-Complete configuration, or Referred layer is supported	N/A
Lower HCI layer	HCI is supported	N/A
Upper HCI layer	Core-Host configuration, or UHCI is supported	N/A
Host layer	Core-Host configuration, or Core-Complete configuration, or Referred layer is supported	N/A
X2Core layer	Core-Host configuration, or Core-Complete configuration, or Referred layer is supported	Core-Host configuration, or Core-Complete configuration

Table 1.1: Enforcement of an ILD within the Bluetooth SIG qualification tool

2 ICS declarations

2.1 Versions

Table 0: No longer used

Table 0a: No longer used

Table 2a: X.Y Versions (Source)

Prerequisite: A2DP 1/1 "Source"

Item	Version	Reference	Status
1	A2DP v1.0**	A2DP v1.0	Deprecated 2022-02-01. Withdrawn 2023-02-01.
2	A2DP v1.2	[1]	C.1, C.3
3	A2DP v1.3	[8]	C.1, C.2
4	A2DP v1.4	[6]	C.1

C.1: Mandatory to support one and only one.

C.2: Can only be supported with an active X.Y.Z version after Deprecation or Withdrawal. Deprecated 2021-02-01. Withdrawn 2024-02-01.

C.3: Excluded after Deprecation or Withdrawal. Deprecated 2028-02-01. Withdrawn 2030-02-01.

Table 2b: X.Y.Z Versions (Source)

Item	Version	Reference	Status
1	A2DP v1.3.1**	A2DP v1.3.1	Deprecated 2021-02-01. Withdrawn 2024-02-01.
2	A2DP v1.3.2	[9]	C.1
3	A2DP v1.4.1	[10]	C.2

C.1: Mandatory IF A2DP 2a/3 "A2DP v1.3", otherwise Excluded.

C.2: Optional IF A2DP 2a/4 "A2DP v1.4", otherwise Excluded.

Table 7a: X.Y Versions (Sink)

Prerequisite: A2DP 1/2 "Sink"

Item	Version	Reference	Status
1	A2DP v1.0**	A2DP v1.0	Deprecated 2022-02-01. Withdrawn 2023-02-01.
2	A2DP v1.2	[1]	C.1, C.3
3	A2DP v1.3	[8]	C.1, C.2
4	A2DP v1.4	[6]	C.1

** Deprecated items will not appear in the Bluetooth SIG qualification tool after the next TCRL following the deprecation date.

C.1: Mandatory to support one and only one.

C.2: Can only be supported with an active X.Y.Z version after Deprecation or Withdrawal. Deprecated 2021-02-01. Withdrawn 2024-02-01.

C.3: Excluded after Deprecation or Withdrawal. Deprecated 2028-02-01. Withdrawn 2030-02-01.

Table 7b: X.Y.Z Versions (Sink)

Item	Version	Reference	Status
1	A2DP v1.3.1**	A2DP v1.3.1	Deprecated 2021-02-01. Withdrawn 2024-02-01.
2	A2DP v1.3.2	[9]	C.1
3	A2DP v1.4.1	[10]	C.2

C.1: Mandatory IF A2DP 7a/3 “A2DP v1.3”, otherwise Excluded.

C.2: Optional IF A2DP 7a/4 “A2DP v1.4”, otherwise Excluded.

2.2 Core Configuration

Table 1d: Core Configuration Requirements

Item	Core Configuration	Reference	Status
1	Profile supported over BR/EDR	[1] 2.1	C.1, C.3
2	Profile supported over LE	[1] 2.1	C.2

C.1: Excluded for this Profile IF CORE 41/2 “LE Core Configuration” OR CORE 40/1 “Core-Controller”.

C.2: Excluded for this Profile.

C.3: Mandatory for this Profile.

2.3 Roles

Table 1: Role Requirements

Item	Role	Reference	Status
1	Source	[1] 2.2	C.1
2	Sink	[1] 2.2	C.1

C.1: Mandatory to support at least one.

2.4 Source Features

Table 2: A2DP SRC Features

Prerequisite: A2DP 1/1 “Source”

Item	Capability	Reference	Status
1	Initiate Connection Establishment	[2] 3.1.1	M
2	Accept Connection Establishment	[2] 3.1.1	M
3	Initiate Start Streaming	[2] 3.1.2	M
4	Accept Start Streaming	[2] 3.1.2	M
5	Send Audio Stream	[1] 3.2.1	M
6	Initiate Connection Release	[2] 3.1.3	M

Item	Capability	Reference	Status
7	Accept Connection Release	[2] 3.1.3	M
8	Initiate Suspend	[2] 3.1.4	O
9	Accept Suspend	[2] 3.1.4	O
10	SBC Encoder	[1] 4.3	M
10a	Encode and Forward Audio Stream	[1] 3.2.1	O
11	SBC Configurations in 16 kHz sampling frequency	[1] 4.3.2.1	O
12	SBC Configurations in 32 kHz sampling frequency	[1] 4.3.2.1	O
13	SBC Configurations in 44.1 kHz sampling frequency	[1] 4.3.2.1	C.1
14	SBC Configurations in 48 kHz sampling frequency	[1] 4.3.2.1	C.1
15	Delay Reporting	[1] 5.1.1.2 [2] 3.1.8	C.2
16	SRC video playback via Bluetooth VDP	[2] 3.1.8	C.3
17	SRC video playback on a local video display	[2] 3.1.8	C.3

C.1: Mandatory to support at least one.

C.2: Mandatory IF A2DP 2/16 “SRC video playback via Bluetooth VDP” OR A2DP 2/17 “SRC video playback on a local video display”, otherwise Excluded.

C.3: Excluded IF A2DP 2a/2 “A2DP v1.2”, otherwise Optional.

2.5 SRC Implementation

Table 3: Supported Codec Interoperability Requirements in SRC

Prerequisite: A2DP 1/1 “Source”

Item	Capability	Reference	Status
1	SBC encoder	[1] 4.3 & Appendix B [3] 3.2.3	M
1a	Encode and Forward SBC Audio Stream	[1] 4.3 & Appendix B [3] 3.2.3	O
2–3	No longer used	N/A	N/A
4	Encode and forward MPEG-1,2 Audio Stream	[1] 4.4	O
5	No longer used	N/A	N/A
6	Encode and forward MPEG-2,4 AAC Audio Stream	[1] 4.5	O
7	No longer used	N/A	N/A
8	Encode and forward ATRAC family Audio Stream	[1] 4.6	O
9	No longer used	N/A	N/A
10	Encode and forward MPEG-D USAC Audio Stream	[6] 4.8	C.6

C.1–C.5: No longer used.

C.6: Excluded IF A2DP 2a/2 “A2DP v1.2” OR A2DP 2a/3 “A2DP v1.3”, otherwise Optional.

Table 3a: Supported Codec Feature Interoperability Requirements in SRC

Prerequisite: A2DP 3/1 "SBC encoder"

Item	Capability	Reference	Status
1	Channel Mode - Mono	[1] 4.3.2.2	M
2	Channel Mode – Dual Channel	[1] 4.3.2.2	C.1
3	Channel Mode – Stereo	[1] 4.3.2.2	C.1
4	Channel Mode – Joint Stereo	[1] 4.3.2.2	C.1
5	Block Length 4	[1] 4.3.2.3	M
6	Block Length 8	[1] 4.3.2.3	M
7	Block Length 12	[1] 4.3.2.3	M
8	Block Length 16	[1] 4.3.2.3	M
9	Subbands - 4	[1] 4.3.2.4	O
10	Subbands - 8	[1] 4.3.2.4	M
11	Allocation - SNR	[1] 4.3.2.5	O
12	Allocation - Loudness	[1] 4.3.2.5	M

C.1: Mandatory to support at least one.

2.5.1 MPEG-2,4 AAC Supported Codec Feature Interoperability Requirements in SRC

Table 3g: Supported MPEG-2,4 AAC Object Type Interoperability Requirements in SRC

Prerequisite: A2DP 3/6 "Encode and forward MPEG-2,4 AAC Audio Stream"

Item	Capability	Reference	Status
1	MPEG-2 AAC LC	[1] 4.5.2.1	M
2	MPEG-4 AAC LC	[1] 4.5.2.1	O
3	MPEG-4 AAC LTP	[1] 4.5.2.1	O
4	MPEG-4 AAC scalable	[1] 4.5.2.1	O
5	MPEG-4 HE-AAC	[6] 4.5.2.1	C.1
6	MPEG-4 HE-AACv2	[6] 4.5.2.1	C.1
7	MPEG-4 AAC-ELDv2	[6] 4.5.2.1	C.1

C.1: Excluded IF A2DP 2a/2 "A2DP v1.2" OR A2DP 2a/3 "A2DP v1.3", otherwise Optional.

Table 3h: Supported MPEG-2,4 AAC Channel Interoperability Requirements in SRC

Prerequisite: A2DP 3/6 "Encode and forward MPEG-2,4 AAC Audio Stream"

Item	Capability	Reference	Status
1	1 Channel	[1] 4.5.2.4	C.1
2	2 Channels	[1] 4.5.2.4	C.1
3	6 (5.1) Channels	[6] 4.5.2.4	C.2
4	8 (7.1) Channels	[6] 4.5.2.4	C.2

C.1: Mandatory to support at least one.

C.2: Excluded IF A2DP 2a/2 "A2DP v1.2" OR A2DP 2a/3 "A2DP v1.3", otherwise Optional.

Table 3i: Supported MPEG-2,4 AAC Sampling Frequency Interoperability Requirements in SRC

Prerequisite: A2DP 3/6 "Encode and forward MPEG-2,4 AAC Audio Stream"

Item	Capability	Reference	Status
1	8000 Hz	[1] 4.5.2.3	O
2	11025 Hz	[1] 4.5.2.3	O
3	12000 Hz	[1] 4.5.2.3	O
4	16000 Hz	[1] 4.5.2.3	O
5	22050 Hz	[1] 4.5.2.3	O
6	24000 Hz	[1] 4.5.2.3	O
7	32000 Hz	[1] 4.5.2.3	O
8	44100 Hz	[1] 4.5.2.3	C.1
9	48000 Hz	[1] 4.5.2.3	C.1
10	64000 Hz	[1] 4.5.2.3	O
11	88200 Hz	[1] 4.5.2.3	O
12	96000 Hz	[1] 4.5.2.3	O

C.1: Mandatory to support at least one.

Table 3j: Supported MPEG-2,4 AAC Feature Interoperability Requirements in SRC

Prerequisite: A2DP 3/6 "Encode and forward MPEG-2,4 AAC Audio Stream"

Item	Capability	Reference	Status
1	Variable Bit Rate	[1] 4.5.2.5 [6] 4.5.2.6	O
2	MPEG-D DRC	[6] 4.5.2.2	C.1

C.1: Excluded IF A2DP 2a/2 "A2DP v1.2" OR A2DP 2a/3 "A2DP v1.3", otherwise Optional IF A2DP 3g/2 "MPEG-4 AAC LC" OR A2DP 3g/3 "MPEG-4 AAC LTP" OR A2DP 3g/4 "MPEG-4 AAC scalable" OR A2DP 3g/5 "MPEG-4 HE-AAC" OR A2DP 3g/6 "MPEG-4 HE-AACv2" OR A2DP 3g/7 "MPEG-4 AAC-ELDv2", otherwise Excluded.

2.5.2 MPEG-D USAC Supported Codec Feature Interoperability Requirements in SRC

Table 3k: Supported MPEG-D USAC Channel Interoperability Requirements in SRC

Prerequisite: A2DP 3/10 "Encode and forward MPEG-D USAC Audio Stream"

Item	Capability	Reference	Status
1	1 Channel	[1] 4.8.2.3	C.1
2	2 Channels	[1] 4.8.2.3	C.1

C.1: Mandatory to support at least one.

Table 3l: Supported MPEG-D USAC Sampling Frequency Interoperability Requirements in SRC

Prerequisite: A2DP 3/10 "Encode and forward MPEG-D USAC Audio Stream"

Item	Capability	Reference	Status
1	7350 Hz	[1] 4.8.2.2	O
2	8000 Hz	[1] 4.8.2.2	O
3	8820 Hz	[1] 4.8.2.2	O
4	9600 Hz	[1] 4.8.2.2	O
5	11025 Hz	[1] 4.8.2.2	O
6	11760 Hz	[1] 4.8.2.2	O
7	12000 Hz	[1] 4.8.2.2	O
8	12800 Hz	[1] 4.8.2.2	O
9	14700 Hz	[1] 4.8.2.2	O
10	16000 Hz	[1] 4.8.2.2	O
11	17640 Hz	[1] 4.8.2.2	O
12	19200 Hz	[1] 4.8.2.2	O
13	22050 Hz	[1] 4.8.2.2	O
14	24000 Hz	[1] 4.8.2.2	O
15	29400 Hz	[1] 4.8.2.2	O
16	32000 Hz	[1] 4.8.2.2	O
17	35280 Hz	[1] 4.8.2.2	O
18	38400 Hz	[1] 4.8.2.2	O
19	44100 Hz	[1] 4.8.2.2	C.1
20	48000 Hz	[1] 4.8.2.2	C.1
21	58800 Hz	[1] 4.8.2.2	O
22	64000 Hz	[1] 4.8.2.2	O
23	70560 Hz	[1] 4.8.2.2	O
24	76800 Hz	[1] 4.8.2.2	O
25	88200 Hz	[1] 4.8.2.2	O
26	96000 Hz	[1] 4.8.2.2	O

C.1: Mandatory to support at least one.

Table 3m: Supported MPEG-D USAC Feature Interoperability Requirements in SRC

Prerequisite: A2DP 3/10 "Encode and forward MPEG-D USAC Audio Stream"

Item	Capability	Reference	Status
1	Variable Bit Rate	[6] 4.8.2.4	O
2	MPEG-D DRC	[6] 4.8.2.1	M

2.5.3 Requirements toward Other Profiles

2.5.3.1 Requirements toward SDP

Table 8: SDP Attributes (Source)

Prerequisite: A2DP 1/1 "Source"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	No longer used	N/A	N/A	N/A
2	ProtocolDescriptorList	[1] 5.3	M	[5] SDP 9/2
3	BluetoothProfileDescriptorList	[1] 5.3	M	[5] SDP 9/14
4	Supported Features	[1] 5.3	O	N/A

2.5.3.2 Requirements toward GAVDP

Table 9: GAVDP Roles (Source)

Prerequisite: A2DP 1/1 "Source"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Initiator	[1] 5.1.1.1	M	[4] GAVDP 1/1
2	Acceptor	[1] 5.1.1.1	M	[4] GAVDP 1/2
3	Delay Reporting Initiator	[1] 5.1.1.2	C.2	[4] GAVDP 1/3
4	Delay Reporting Acceptor	[1] 5.1.1.2	C.1	[4] GAVDP 1/4

C.1: Excluded IF A2DP 2a/2 "A2DP v1.2", otherwise Optional.

C.2: Excluded for this Role. Note: It is not permitted to be a delay reporting initiator for A2DP Source role.

Table 10: No longer used

Table 11: No longer used

2.5.3.3 Requirements toward AVDTP Capabilities

Table 11a: AVDTP Capabilities (Initiator, Source)

Prerequisite: A2DP 1/1 "Source"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Set configuration command	[1] 5.1.3	M	[7] AVDTP 4/3
2	Reconfigure command	[1] 5.1.3	O	[7] AVDTP 4/5

Table 11b: AVDTP Capabilities (Acceptor, Source)

Prerequisite: A2DP 1/1 "Source"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Set configuration response	[1] 5.1.3	M	[7] AVDTP 10/3
2	Reconfigure response	[1] 5.1.3	O	[7] AVDTP 10/5

2.6 Sink Features

Table 4: A2DP SNK Features

Prerequisite: A2DP 1/2 "Sink"

Item	Capability	Reference	Status
1	Initiate Connection Establishment	[2] 3.1.1	O
2	Accept Connection Establishment	[2] 3.1.1	M
3	Initiate Start Streaming	[2] 3.1.2	O
4	Accept Start Streaming	[2] 3.1.2	M
5	Receive Audio Stream	[1] 3.2.1	M
6	Initiate Connection Release	[2] 3.1.3	O
7	Accept Connection Release	[2] 3.1.3	M
8	Initiate Suspend	[2] 3.1.4	O
9	Accept Suspend	[2] 3.1.4	O
10	SBC Decoder	[1] 4.3	M
10a	Receive and Decode Audio Stream	[1] 3.2.2	O
11	SBC Configurations in 16 kHz sampling frequency	[1] 4.3.2.1	O
12	SBC Configurations in 32 kHz sampling frequency	[1] 4.3.2.1	O
13	SBC Configurations in 44.1 kHz sampling frequency	[1] 4.3.2.1	M
14	SBC Configurations in 48 kHz sampling frequency	[1] 4.3.2.1	M
15	Delay Reporting	[1] 5.1.1.2 [2] 3.1.8	C.1

C.1: Excluded IF A2DP 7a/2 "A2DP v1.2", otherwise Mandatory.

2.7 SNK Implementation

Table 5: Supported Codec Interoperability Requirements in SNK

Prerequisite: A2DP 1/2 "Sink"

Item	Capability	Reference	Status
1	SBC Decoder	[1] 4.3 & Appendix B [3] 3.2.4	M
1a, 2	No longer used	N/A	N/A
3	MPEG-1,2 Audio decoder	[1] 4.4	O
4	MPEG-2,4 AAC decoder	[1] 4.5	O
5	ATRAC family decoder	[1] 4.6	O

Item	Capability	Reference	Status
6	MPEG-D USAC decoder	[6] 4.8	C.2

C.1: No longer used.

C.2: Excluded IF A2DP 7a/2 “A2DP v1.2” OR A2DP 7a/3 “A2DP v1.3”, otherwise Optional.

Table 5a: Supported Codec Feature Interoperability Requirements in SNK

Prerequisite: A2DP 5/1 “SBC Decoder”

Item	Capability	Reference	Status
1	Channel Mode – Mono	[1] 4.3.2.2	M
2	Channel Mode – Dual Channel	[1] 4.3.2.2	M
3	Channel Mode – Stereo	[1] 4.3.2.2	M
4	Channel Mode – Joint Stereo	[1] 4.3.2.2	M
5	Block Length 4	[1] 4.3.2.3	M
6	Block Length 8	[1] 4.3.2.3	M
7	Block Length 12	[1] 4.3.2.3	M
8	Block Length 16	[1] 4.3.2.3	M
9	Subbands – 4	[1] 4.3.2.4	M
10	Subbands – 8	[1] 4.3.2.4	M
11	Allocation – SNR	[1] 4.3.2.5	M
12	Allocation – Loudness	[1] 4.3.2.5	M

2.7.1 MPEG-2,4 AAC Supported Codec Feature Interoperability Requirements in SNK

Table 5g: Supported MPEG-2,4 AAC Object Type Interoperability Requirements in SNK

Prerequisite: A2DP 5/4 “MPEG-2,4 AAC decoder”

Item	Capability	Reference	Status
1	MPEG-2 AAC LC	[1] 4.5.2.1	M
2	MPEG-4 AAC LC	[1] 4.5.2.1	O
3	MPEG-4 AAC LTP	[1] 4.5.2.1	O
4	MPEG-4 AAC scalable	[1] 4.5.2.1	O
5	MPEG-4 HE-AAC	[6] 4.5.2.1	O
6	MPEG-4 HE-AACv2	[6] 4.5.2.1	C.1
7	MPEG-4 AAC-ELDv2	[6] 4.5.2.1	C.1

C.1: Excluded IF A2DP 7a/2 “A2DP v1.2” OR A2DP 7a/3 “A2DP v1.3”, otherwise Optional.

Table 5h: Supported MPEG-2,4 AAC Channel Interoperability Requirements in SNK

Prerequisite: A2DP 5/4 "MPEG-2,4 AAC decoder"

Item	Capability	Reference	Status
1	1 Channel	[1] 4.5.2.4	M
2	2 Channels	[1] 4.5.2.4	M
3	6 (5.1) Channels	[6] 4.5.2.4	C.1
4	8 (7.1) Channels	[6] 4.5.2.4	C.1

C.1: Excluded IF A2DP 7a/2 "A2DP v1.2" OR A2DP 7a/3 "A2DP v1.3", otherwise Optional.

Table 5i: Supported MPEG-2,4 AAC Sampling Frequency Interoperability Requirements in SNK

Prerequisite: A2DP 5/4 "MPEG-2,4 AAC decoder"

Item	Capability	Reference	Status
1	8000 Hz	[1] 4.5.2.3	O
2	11025 Hz	[1] 4.5.2.3	O
3	12000 Hz	[1] 4.5.2.3	O
4	16000 Hz	[1] 4.5.2.3	O
5	22050 Hz	[1] 4.5.2.3	O
6	24000 Hz	[1] 4.5.2.3	O
7	32000 Hz	[1] 4.5.2.3	O
8	44100 Hz	[1] 4.5.2.3	M
9	48000 Hz	[1] 4.5.2.3	M
10	64000 Hz	[1] 4.5.2.3	O
11	88200 Hz	[1] 4.5.2.3	O
12	96000 Hz	[1] 4.5.2.3	O

Table 5j: Supported MPEG-2,4 AAC Feature Interoperability Requirements in SNK

Prerequisite: A2DP 5/4 "MPEG-2,4 AAC decoder"

Item	Capability	Reference	Status
1	Variable Bit Rate	[1] 4.5.2.5 [6] 4.5.2.6	M
2	MPEG-D DRC	[6] 4.5.2.2	C.1

C.1: Excluded IF A2DP 7a/2 "A2DP v1.2" OR A2DP 7a/3 "A2DP v1.3", otherwise Optional IF A2DP 5g/2 "MPEG-4 AAC LC" OR A2DP 5g/3 "MPEG-4 AAC LTP" OR A2DP 5g/4 "MPEG-4 AAC scalable" OR A2DP 5g/5 "MPEG-4 HE-AAC" OR A2DP 5g/6 "MPEG-4 HE-AACv2" OR A2DP 5g/7 "MPEG-4 AAC-ELDv2", otherwise Excluded.

2.7.2 MPEG-D USAC Supported Codec Feature Interoperability Requirements in SNK

Table 5k: Supported MPEG-D USAC Channel Interoperability Requirements in SNK

Prerequisite: A2DP 5/6 "MPEG-D USAC decoder"

Item	Capability	Reference	Status
1	1 Channel	[1] 4.8.2.3	M
2	2 Channels	[1] 4.8.2.3	M

Table 5l: Supported MPEG-D USAC Sampling Frequency Interoperability Requirements in SNK

Prerequisite: A2DP 5/6 "MPEG-D USAC decoder"

Item	Capability	Reference	Status
1	7350 Hz	[1] 4.8.2.2	O
2	8000 Hz	[1] 4.8.2.2	O
3	8820 Hz	[1] 4.8.2.2	O
4	9600 Hz	[1] 4.8.2.2	O
5	11025 Hz	[1] 4.8.2.2	O
6	11760 Hz	[1] 4.8.2.2	O
7	12000 Hz	[1] 4.8.2.2	O
8	12800 Hz	[1] 4.8.2.2	O
9	14700 Hz	[1] 4.8.2.2	O
10	16000 Hz	[1] 4.8.2.2	O
11	17640 Hz	[1] 4.8.2.2	O
12	19200 Hz	[1] 4.8.2.2	O
13	22050 Hz	[1] 4.8.2.2	O
14	24000 Hz	[1] 4.8.2.2	O
15	29400 Hz	[1] 4.8.2.2	O
16	32000 Hz	[1] 4.8.2.2	O
17	35280 Hz	[1] 4.8.2.2	O
18	38400 Hz	[1] 4.8.2.2	O
19	44100 Hz	[1] 4.8.2.2	M
20	48000 Hz	[1] 4.8.2.2	M
21	58800 Hz	[1] 4.8.2.2	O
22	64000 Hz	[1] 4.8.2.2	O
23	70560 Hz	[1] 4.8.2.2	O
24	76800 Hz	[1] 4.8.2.2	O
25	88200 Hz	[1] 4.8.2.2	O
26	96000 Hz	[1] 4.8.2.2	O

Table 5m: Supported MPEG-D USAC Feature Interoperability Requirements in SNK

Prerequisite: A2DP 5/6 "MPEG-D USAC decoder"

Item	Capability	Reference	Status
1	Variable Bit Rate	[6] 4.8.2.4	M
2	MPEG-D DRC	[6] 4.8.2.1	M

2.7.3 Requirements toward Other Profiles

2.7.3.1 Requirements toward SDP

Table 12: SDP Attributes (Sink)

Prerequisite: A2DP 1/2 "Sink"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	No longer used	N/A	N/A	N/A
2	ProtocolDescriptorList	[1] 5.3	M	[5] SDP 9/2
3	BluetoothProfileDescriptorList	[1] 5.3	M	[5] SDP 9/14
4	Supported Features	[1] 5.3	O	N/A

2.7.3.2 Requirements toward GAVDP

Table 13: GAVDP Roles (Sink)

Prerequisite: A2DP 1/2 "Sink"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Initiator	[1] 5.1.1.1	O	[4] GAVDP 1/1
2	Acceptor	[1] 5.1.1.1	M	[4] GAVDP 1/2
3	Delay Reporting Initiator	[1] 5.1.1.2	C.1	[4] GAVDP 1/3
4	Delay Reporting Acceptor	[1] 5.1.1.2	C.2	[4] GAVDP 1/4

C.1: Excluded IF A2DP 7a/2 "A2DP v1.2", otherwise Mandatory.

C.2: Excluded for this Role. Note: It is not permitted to be a delay reporting acceptor for A2DP Sink role.

Table 14: No longer used

Table 15: No longer used

2.7.3.3 Requirements toward AVDTP Capabilities

Table 15a: AVDTP Capabilities (Initiator, Sink)

Prerequisite: A2DP 1/2 "Sink"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Set configuration command	[1] 5.1.3	C.1	[7] AVDTP 4b/3
2	Reconfigure command	[1] 5.1.3	O	[7] AVDTP 4b/5

C.1: Mandatory IF A2DP 13/1 "Initiator", otherwise not defined.

Table 15b: AVDTP Capabilities (Acceptor, Sink)

Prerequisite: A2DP 1/2 "Sink"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Set configuration response	[1] 5.1.3	M	[7] AVDTP 10b/3
2	Reconfigure response	[1] 5.1.3	O	[7] AVDTP 10b/5

3 References

[1] Advanced Audio Distribution Profile (A2DP) Specification, Version 1.2 or later

[2] Generic Audio/Video Distribution Profile (GAVDP) Specification

[3] Advanced Audio Distribution Profile (A2DP) Test Suite

[4] ICS Proforma for Generic Audio/Video Distribution Profile (GAVDP)

[5] ICS Proforma for Service Discovery Protocol (SDP)

[6] Advanced Audio Distribution Profile (A2DP) Specification, Version 1.4 or later

[7] ICS Proforma for Audio/Video Distribution Transport Protocol (AVDTP)

[8] Advanced Audio Distribution Profile (A2DP) Specification, Version 1.3

[9] Advanced Audio Distribution Profile (A2DP) Specification, Version 1.3.2

[10] Advanced Audio Distribution Profile (A2DP) Specification, Version 1.4.1

4 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
0	1.00	2003-02-01	Release for Voting Draft
	Version 1.0	2003-05-01	Updated title and header
1	1.1.1r1	2004-12-16	Editorial and format changes.
	1.1.2r0	2006-02-03	Editorial updates; remove spec version from title TSE 910: Corrections to Tables 9-1 and 9-2 TSE 911:Remove “None” items in Tables 9-1 and 9-2
2	1.1.2	2006-06-12	Prepare for publication.
	1.1.3r0	2006-10-01	TSE 1806: Corrections to Sec. 5 & 6 due to TSE 879 TSE 1886 Items 5.2.1, 6.2.1 change feature name Inserted preliminary new table numbers in parens (x) to comply with TSE 1979.
	1.1.3r1	2006-11-15	Changed all references to be of type [x] Removed implementation of 1762.
	1.1.3r2	2006-12-10	Input reviewer’s comments Added Table of Contents for clarity
	1.1.3r3	2006-12-14	TSE 1886: ServiceClassIDList from Tables 3 and 8.
3	1.1.3	2007-01-05	Prepare for publication
	1.1.4r0-1	2008-02-08	TSE 1962: Add items ¾ and 8/4 TSE 2267: Table 2, Table 7: add rows
4	1.1.4	2008-04-15	Prepare for publication
	1.0.5r0, 1.2.5r0	2008-10-05	TSE 2659: C1 for Table 2/13 and 2/14
5	1.0.5, 1.2.5	2008-11-25	Prepare for publication.
	1.2.5a	2010-01-25	TSE 3272: Fix radio button functionality for Table 5/5
	1.2.6r0	2011-02-25	TSE 4271: Table 2 and Table 7: Change spec ref. sections TSE 4272: Add Table 0 to match TPG
6	1.2.6	2011-07-21	Prepare for publication.
	1.1.5	2009-12-19	Release for Synchronization Voting Draft
	1.3.0r0	2011-02-15	Prepare for publication
	1.3.0r1	2011-03-31	Update after AV F2F
	1.3.0r2	2011-12-10	Merged for Core Spec 2.1 +EDR updates ESR04 errata 938: Move test requirements from ICS to Appendix in A2DP ESR04 errata 879: Only the devices supporting SRC role should be required to support inquiry, extension of errata 872 TSE 4602: Add else excluded to C1 of codec support Tables 7 and 13
	1.3.0r3	2012-02-20	Updated to latest PICS template
	1.3.0r4	2012-04-02	Updates to resolve BTI comments

Publication Number	Revision Number	Date	Comments
	1.3.0r4	2012-04-02	Updates to resolve BTI comments
	1.3.0r5	2012-05-01	TSE 4274: Comment ID 12943. Add Tables 12a and 13a for SBC feature declaration Revert the table numbers that were changed in an intermediate revision according to BTI feedback. Sections renumbered. Rename Non A2DP Codecs to Vendor Specific Codecs
	1.3.0r6	2012-05-10	TSE 4675: Comment ID 12979. Add ICS in Tables 2 and 7 for rendering devices. Also separate requirements in Table 12 and 13 based on this new ICS distinction.
	1.3.0r7	2012-05-21	Renumbered the remaining ICS Tables that needed to be consistent with previous published numbering. Changed X to N/A as appropriate.
	1.3.0r8	2012-06-07	Changed the remaining “X” to Conditionals.
	1.3.0r9	2012-07-01	Editorial updates to align section numbering with published ICS template.
7	1.3.0	2012-07-24	Prepare for publication.
	1.3.1.0r00	2015-05-20	ESR08: Added item 4 to Table 0 for A2DP 1.3.1 and updated conditionals
	1.3.1.0r01	2015-05-27	Reviewed by Alicia Courtney. Updated to current document template.
8	1.3.1.0	2015-07-14	Prepared for TCRL 2015-1 publication
	1.3.1.1r00	2016-02-26	TSE 6895: Table 12 modified conditionals for items 2a, 2c, and 2e and added references. Added Table 0a for the X.Y.Z version items and removed version 1.3.1 from Table 0 per the current conventions.
9	1.3.1.1	2016-07-13	Prepared for TCRL 2016-1 publication.
	1.3.1.2r00	2017-03-29	TSE 7514: Updated capabilities for items 2a-2f to Table 12. Updated status for items 2a, 2c, and 2e to Table 12. Modified conditionals (C.2-C.4) to Table 12 from “otherwise Excluded” to “otherwise Optional”.
	1.3.1.2r01	2017-04-25	Updated template. Replaced parentheses with quotation marks to align with current ICS conventions.
10	1.3.1.2	2017-07-03	Approved by BTI. Prepared for TCRL 2017-1 publication.
	1.3.1.3r00	2018-10-04	TSE 10820 (rating 2): Added new ICS tables to separate ICS versions by role.
11	1.3.2.0r00	2018-11-09	Updated version number to 1.3.2.0 to align with adoption of specification version1.3.2. Added items 2b/2 and 7b/2 for the new spec version.
	1.3.2.1 r00–r02	2019-04-09–2019-06-21	TSE 11675 (rating 2): Updated GAVDP Table 0 references after TSE 11210. Aligned table numbering to match historical TPG data.

Publication Number	Revision Number	Date	Comments
12	1.3.2.1	2019-07-28	Approved by BTI. Prepared for TCRL 2019-1 publication.
	1.3.2.2 r00–r01	2019-10-04 – 2019-10-29	TSE 12659 (rating 2): Deleted Tables 10, 11, 14, and 15 (and their related section headings) to remove incorrect A2DP role dependencies. TSE 12530 (rating 2): Deleted Tables 0 and 0a and changed C.2 of 9/3 and 13/4 Delay Reporting Initiator/Acceptor so that an invalid is not generated when both roles are supported.
13	1.3.2.2	2020-01-07	Approved by BTI on 2019-11-17. Prepared for 2019-2 publication.
	1.3.2.2ed2 r00–r01	2020-01-16 – 2020-03-27	TSE 12974 (rating 1): Renumbered items in Table 3 and Table 5 and updated conditionals in Table 3 that needed to reflect those changes. Updated document number, setting previous 1.3.2.2 release as p13. Made minor editorials and formatting changes.
	1.3.2.2 edition 2	2020-08-13	Rolled back document numbering to reflect an edition release, made minor formatting and template editorials, and accepted all tracked changes. Approved by BTI on 2020-08-13. Prepared for edition 2 publication.
	1.3.2.2ed3 r00	2021-01-13	TSE 15954 (rating 1): Updated conditionals in version tables for deprecation.
	1.3.2.2 edition 3	2021-02-01	Approved by BTI on 2021-01-13. Prepared for edition 3 publication.
	p14r00–r04	2021-03-15 – 2021-06-11	TSE 15972 (rating 1): Fixed typo in numbering in Table 7b. TSE 16974 (rating 1): Updated C.1 of Table 2, C.1 and C.2 of Table 9, C.1 and C.2 of Table 13, C.2–C.4 of Table 3, and C.1 of Table 3a to align with the latest ICS template grammar. Also made other minor consistency checker editorials. Editorials to align with the latest D&W conventions. Consistency checker and other template-related editorials.
14	p14	2021-07-13	Approved by BTI on 2021-06-03. Prepared for TCRL 2021-1 publication.
	p14ed2r00	2021-07-15	TSE 17081 (rating 1): Changed section heading for 3.1.3 from “Non-A2DP Codecs” to “Vendor Specific Codecs”.
	p14 edition 2	2021-08-19	Approved by BTI on 2021-08-19. Prepared for edition 2 publication.
	p14ed3r00	2021-10-13	TSE 17522 (rating 1): Changed KHz to kHz. Changed sampling frequency rate to sampling frequency. Inverted the Excluded logic for conditionals that apply to A2DP v1.3 or later for forward compatibility. Removed unused reference.
	p14ed3r01	2021-10-18	TSE 17724 (rating 1): Consistency checker updates throughout the document.

Publication Number	Revision Number	Date	Comments
	p14 edition 3	2021-11-09	Approved by BTI on 2021-11-08. Prepared for edition 3 publication.
	p15r00–r07	2021-12-10 – 2022-05-23	Incorporated CR A2DP_NewAACObjTypes.ICS.CRr13, the CR for A2DP v1.4, approved by BTI on 2021-11-01, which includes the following TSEs: TSE 17015 (rating 4): Added coverage for mandated codec related to error codes in AVDTP. Added new item 2a/4 and revised C.1. Added new section under Source Features “Requirements toward AVDTP Capabilities”, including new Tables 11a and 11b. Added new item 7a/4 and revised C.1. Added new section under Sink Features “Requirements toward AVDTP Capabilities”, including new Tables 15a and 15b. Added new references to A2DP v1.4 and the AVDTP ICS. TSE 17519 (rating 1): Renamed “Optional Codecs” to “Externally Referenced Codecs” per Legal. TSE 17521 (rating 3): Cleaned up optional codec items. Updated description of 4/10a. Removed item 3/2, updated status column for 3/3–3/8, and added 3/9 and 3/10; set C.1 to “No longer used” and added C.5. Removed 5/1a and 5/2, updated status column for 5/3–5/5, and added 5/6; set C.1 to “No longer used”. TSE 17523 (rating 3): Added MPEG-2,4 and MPEG-D features. Added two new subsections to the “SRC Implementation” section, including new Tables 3g, 3h, 3i, 3j, 3k, 3l, and 3m. Added two new subsections to the “SNK Implementation” section, including new Tables 5g, 5h, 5i, 5j, 5k, 5l, and 5m. Incorporated Test Issue 18118, removing sections containing Tables 3b, 3c, 3d, 3e, and the placeholder for 3f, and Tables 5b, 5c, 5d, 5e, and the placeholder for 5f. Updated rev history comment for TSE 17523 accordingly. TSE 18374 (rating 1): Removed “is supported” language globally to align with the latest ICS conventions. (Note: applied to AAC Object Types–related material, too.) TSE 18610 (rating 1): Per Erratum 18398, removed Appendix A to consolidate all tables into the main part of the document. Removed Appendix D–related Requirements column from Tables 3 and 5. Deleted Manufacturer Declaration of Codecs material that remained from the AAC Object Types CR. TSE 18683 (rating 1): Per Erratum 18481, updated terminology for codecs to finalized language. Incorporated Test Issue 18118, removing sections containing Tables 3b, 3c, 3d, 3e, and the placeholder for 3f, and Tables 5b, 5c, 5d, 5e, and the placeholder for 5f. Updated rev history comment for TSE 17523 accordingly.

Publication Number	Revision Number	Date	Comments
			Editorials, including aligning the copyright page to the latest DNMD and revising the Acknowledgments list.
15	p15	2022-06-28	A2DP v1.4 adopted by the BoD on 2022-06-21. Prepared for TCRL 2022-1 publication.
	p16r00–r02	2022-07-21 – 2022-11-28	TSE 19010 (rating 2): Per E18994 “Removal of transcoding requirements”, removed items 3, 5, 7, and 9, and associated C.2–C.5, from Table 3. TSE 20368 (rating 2): Updated status of 3/10 and added C.6. Updated status of 3g/5, 3g/6, and 3g/7 and added C.1. Updated status of 3h/3 and 3h/4 and added C.2. Updated C.1 for Table 3j. Updated status of 5/6 and added C.2. Updated status of 5g/6 and 5g/7 and added C.1. Updated status of 5h/3 and 5h/4 and added C.1. Updated C.1 for Table 5j.
16	p16	2023-02-07	Approved by BTI on 2022-12-19. Prepared for TCRL 2022-2 publication.
	p16ed2r00–r03	2023-02-07 – 2023-02-23	TSE 22628 (rating 1): Updated to align with current ICS conventions, moved version tables to the beginning of the document, and updated the Withdrawal date for A2DP 1.3 and A2DP 1.3.1 from 2023-02-01 to 2024-02-01.
	p16 edition 2	2023-02-27	Approved by BTI on 2023-02-23. Prepared for edition 2 publication.
	p16ed3r00–r01	2023-03-09 – 2023-04-13	TSE 22863 (rating 1): Corrected the deprecation date for A2DP v1.3. Affected tables are Tables 2a and 7a.
	p16 edition 3	2023-04-14	Approved by BTI on 2023-04-13. Prepared for edition 3 publication.
	p17r00–r08	2024-10-08 – 2025-04-23	TSE 25979 (rating 2): Added Section 1.3 and Table 1d listing core configuration requirements, and made minor updates for formatting and style. TSE 27269 (rating 2): Updated the table title, added the missing "v" in the Version value, and updated the Reference value for Tables 2a, 2b, 7a, and 7b. Deleted the prerequisite for Tables 2b and 7b. Added Item A2DP 2b/3 and condition C.2 to Table 2b and added Item A2DP 7b/3 and condition C.2 to Table 7b to cover A2DP v1.4.1. Updated the references list. Incorporated editorials to align the document with the latest ICS template: Updated Section 1 and added a section heading for the ICS declarations section.
17	p17	2025-07-08	Approved by BTI on 2025-05-30. A2DP v1.4.1 adopted by the BoD on 2025-06-30. Prepared for TCRL pkg100 publication.
	p18r00–r01	2025-12-04 – 2025-12-31	TSE 28346 (rating 1): Updated the conditions in the transport table to make sure the layer is excluded when the design is an implementation of the Core-Controller Configuration by adding "OR CORE 40/1 “Core-Controller”" to an already excluded transport based on Core Configuration support.

Publication Number	Revision Number	Date	Comments
18	p18	2026-02-17	Approved by BTI on 2026-01-22. Prepared for TCRL pkg102 publication.
	p19r00–r01	2026-04-16 – 2026-04-19	TSE 28651 (rating 1): Applied 2024 Annual Non-Core D&W decision to A2DP v1.2. Changed status of 2a/2, 7a/2 from "C.1" to "C.1, C.3" and added new C.3 condition to cover exclusion after D&W dates. Incorporated consistency checker editorial: Combined rows 5/1a and 5/2.
19	p19	2026-06-23	Approved by BTI on 2026-05-28. Prepared for TCRL pkg104 publication.

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