Audio/Video Distribution Transport Protocol (AVDTP)

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

- **Revision:** AVDTP.ICS.p14
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- **Prepared By:** BTI
- **Published during TCRL:** TCRL.pkg102

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 14a: X.Y Versions (Source)

Prerequisite: AVDTP 1/1 "Source"

Item	Version	Reference	Status
1	AVDTP v1.0**	[1]	Deprecated 2022-02-01. Withdrawn 2023-02-01.
2	AVDTP v1.2**	[2]	Deprecated 2023-02-01. Withdrawn 2024-02-01.
3	AVDTP v1.3	[3]	M

Table 15a: X.Y Versions (Sink)

Prerequisite: AVDTP 1/2 "Sink"

Item	Version	Reference	Status
1	AVDTP v1.0**	[1]	Deprecated 2022-02-01. Withdrawn 2023-02-01.
2	AVDTP v1.2**	[2]	Deprecated 2023-02-01. Withdrawn 2024-02-01.
3	AVDTP v1.3	[3]	M

2.2 Core Configuration

Table 0a: Core Configuration Requirements

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

C.1: Excluded for this Protocol IF CORE 41/2 "LE Core Configuration" OR CORE 40/1 "Core-Controller".

C.2: Excluded for this Protocol.

C.3: Mandatory for this Protocol.

** Deprecated versions may not appear in the Bluetooth SIG qualification tool after the deprecation date. TCRLs published after this date will not allow the use of deprecated versions.

2.3 Roles

Table 1: Role Requirements

Item	Role	Reference	Status
1	Source	[3] 4.2	C.1
2	Sink	[3] 4.2	C.1
3	Initiator	[3] 4.3	C.2
4	Acceptor	[3] 4.3	C.2

C.1: Mandatory to support at least one.

C.2: Mandatory to support at least one.

2.4 Source Capabilities

Table 14: Source Capabilities

Prerequisite: AVDTP 1/1 "Source"

Item	Capability	Reference	Status
1	Basic transport service support	[3] 7.2, 13.2	M
2	Reporting service support	[3] 7.3	O
3	Recovery service support	[3] 7.4	O
4	Multiplexing service support	[3] 7.5	O
5	Robust header compression service support	[3] 7.6	O
6	Delay Reporting	[3] 6.19	O

2.4.1 Initiator Capabilities (Source)

Table 2: Signaling Message Format (Initiator, Source)

Prerequisite: AVDTP 1/3 "Initiator" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Status
1	Transaction Label	[3] 8.4.1	M
2	Packet type	[3] 8.4.2	M
3	Message type	[3] 8.4.3	M
4	Signal identifier	[3] 8.4.4	M

Table 3: Signaling Channel Establishment/Disconnection (Initiator, Source)

Prerequisite: AVDTP 1/3 "Initiator" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Status
1	Establish signaling channel	[3] 13.1	O
2	Disconnect signaling channel	[3] 13.1	O

Table 4: Stream Discovery and Configuration (Initiator, Source)

Prerequisite: AVDTP 1/3 "Initiator" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Status
1	Stream discover command	[3] 6.4, 6.6, 8.6, 13.1	O
2	Stream get capabilities command	[3] 6.4, 6.7, 8.7, 13.1	C.2
3	Set configuration command	[3] 6.4, 6.9, 8.9, 13.1	O
4	Get configuration command	[3] 6.4, 6.10, 8.10, 13.1	O
5	Reconfigure command	[3] 6.4, 6.15, 8.11, 13.1	O
6	Stream get all capabilities command	[3] 6.4, 6.8, 8.8, 13.1	O

C.1: No longer used.

C.2: Mandatory IF AVDTP 4/6 "Stream get all capabilities command", otherwise Optional.

Table 5: Stream Establishment, Suspension and Release (Initiator, Source)

Prerequisite: AVDTP 1/3 "Initiator" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Status
1	Open stream command	[3] 6.4, 6.11, 8.12, 13.1	O
2	Start stream command	[3] 6.4, 6.12, 8.13, 13.1	O
3	Close stream command	[3] 6.4, 6.13, 8.14, 13.1	O
4	Suspend command	[3] 6.4, 6.14, 8.15, 13.1	O
5	Abort stream command	[3] 6.4, 6.17, 8.16, 13.1	O

Table 6: Security Signaling (Initiator, Source)

Prerequisite: AVDTP 1/3 "Initiator" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Status
1	Content security control command	[3] 6.4, 6.16, 8.17, 13.1	O

Table 7: Message Fragmentation (Initiator, Source)

Prerequisite: AVDTP 1/3 "Initiator" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Status
1	Signaling message fragmentation	[3] 8.3	M

2.4.2 Acceptor Capabilities (Source)

Table 8: Signaling Message Format (Acceptor, Source)

Prerequisite: AVDTP 1/4 "Acceptor" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Status
1	Transaction Label	[3] 8.4.1	M
2	Packet type	[3] 8.4.2	M

Item	Capability	Reference	Status
3	Message type	[3] 8.4.3	M
4	Signal identifier	[3] 8.4.4	M

Table 9: Signaling Channel Establishment/Disconnection (Acceptor, Source)

Prerequisite: AVDTP 1/4 "Acceptor" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Status
1	Establish signaling channel	[3] 13.1	O
2	Disconnect signaling channel	[3] 13.1	O

Table 10: Stream Discovery and Configuration (Acceptor, Source)

Prerequisite: AVDTP 1/4 "Acceptor" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Status
1	Stream discover response	[3] 6.4, 6.6, 8.6, 13.1	O
2	Stream get capabilities response	[3] 6.4, 6.7, 8.7, 13.1	C.2
3	Set configuration response	[3] 6.4, 6.9, 8.9, 13.1	O
4	Get configuration response	[3] 6.4, 6.10, 8.10, 13.1	O
5	Reconfigure response	[3] 6.4, 6.15, 8.11, 13.1	O
6	Stream get all capabilities response	[3] 6.4, 6.8, 8.8, 13.1	O

C.1: No longer used.

C.2: Mandatory IF AVDTP 10/6 "Stream get all capabilities response", otherwise Optional.

Table 11: Stream Establishment, Suspension and Release (Acceptor, Source)

Prerequisite: AVDTP 1/4 "Acceptor" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Status
1	Open stream response	[3] 6.4, 6.11, 8.12, 13.1	O
2	Start stream response	[3] 6.4, 6.12, 8.13, 13.1	O
3	Close stream response	[3] 6.4, 6.13, 8.14, 13.1	O
4	Suspend response	[3] 6.4, 6.14, 8.15, 13.1	O
5	Abort stream response	[3] 6.4, 6.17, 8.16, 13.1	O
6	General reject message	[3] 8.18	O

Table 12: Security Signaling (Acceptor, Source)

Prerequisite: AVDTP 1/4 "Acceptor" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Status
1	Content security control response	[3] 6.4, 6.16, 8.17, 13.1	O

Table 13: Message Fragmentation (Acceptor, Source)

Prerequisite: AVDTP 1/4 "Acceptor" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Status
1	Signaling message fragmentation	[3] 8.3	M

2.5 Sink Capabilities

Table 15: Sink Capabilities

Prerequisite: AVDTP 1/2 "Sink"

Item	Capability	Reference	Status
1	Basic transport service support	[3] 7.2, 13.2	M
2	Reporting service support	[3] 7.3	O
3	Recovery service support	[3] 7.4	O
4	Multiplexing service support	[3] 7.5	O
5	Robust header compression service support	[3] 7.6	O
6	Delay Reporting	[3] 6.19	O

2.5.1 Initiator Capabilities (Sink)

Table 2b: Signaling Message Format (Initiator, Sink)

Prerequisite: AVDTP 1/3 "Initiator" AND AVDTP 1/2 "Sink"

Item	Capability	Reference	Status
1	Transaction Label	[3] 8.4.1	M
2	Packet type	[3] 8.4.2	M
3	Message type	[3] 8.4.3	M
4	Signal identifier	[3] 8.4.4	M

Table 3b: Signaling Channel Establishment/Disconnection (Initiator, Sink)

Prerequisite: AVDTP 1/3 "Initiator" AND AVDTP 1/2 "Sink"

Item	Capability	Reference	Status
1	Establish signaling channel	[3] 13.1	O
2	Disconnect signaling channel	[3] 13.1	O

Table 4b: Stream Discovery and Configuration (Initiator, Sink)

Prerequisite: AVDTP 1/3 "Initiator" AND AVDTP 1/2 "Sink"

Item	Capability	Reference	Status
1	Stream discover command	[3] 6.4, 6.6, 8.6, 13.1	O
2	Stream get capabilities command	[3] 6.4, 6.7, 8.7, 13.1	C.2
3	Set configuration command	[3] 6.4, 6.9, 8.9, 13.1	O

Item	Capability	Reference	Status
4	Get configuration command	[3] 6.4, 6.10, 8.10, 13.1	O
5	Reconfigure command	[3] 6.4, 6.15, 8.11, 13.1	O
6	Stream get all capabilities command	[3] 6.4, 6.8, 8.8, 13.1	O

C.1: No longer used.

C.2: Mandatory IF AVDTP 4b/6 “Stream get all capabilities command”, otherwise Optional.

Table 5b: Stream Establishment, Suspension and Release (Initiator, Sink)

Prerequisite: AVDTP 1/3 “Initiator” AND AVDTP 1/2 “Sink”

Item	Capability	Reference	Status
1	Open stream command	[3] 6.4, 6.11, 8.12, 13.1	O
2	Start stream command	[3] 6.4, 6.12, 8.13, 13.1	O
3	Close stream command	[3] 6.4, 6.13, 8.14, 13.1	O
4	Suspend command	[3] 6.4, 6.14, 8.15, 13.1	O
5	Abort stream command	[3] 6.4, 6.17, 8.16, 13.1	O

Table 6b: Security Signaling (Initiator, Sink)

Prerequisite: AVDTP 1/3 “Initiator” AND AVDTP 1/2 “Sink”

Item	Capability	Reference	Status
1	Content security control command	[3] 6.4, 6.16, 8.17, 13.1	O

Table 7b: Message Fragmentation (Initiator, Sink)

Prerequisite: AVDTP 1/3 “Initiator” AND AVDTP 1/2 “Sink”

Item	Capability	Reference	Status
1	Signaling message fragmentation	[3] 8.3	M

2.5.2 Acceptor Capabilities (Sink)

Table 8b: Signaling Message Format (Acceptor, Sink)

Prerequisite: AVDTP 1/4 “Acceptor” AND AVDTP 1/2 “Sink”

Item	Capability	Reference	Status
1	Transaction Label	[3] 8.4.1	M
2	Packet type	[3] 8.4.2	M
3	Message type	[3] 8.4.3	M
4	Signal identifier	[3] 8.4.4	M

Table 9b: Signaling Channel Establishment/Disconnection (Acceptor, Sink)

Prerequisite: AVDTP 1/4 "Acceptor" AND AVDTP 1/2 "Sink"

Item	Capability	Reference	Status
1	Establish signaling channel	[3] 13.1	O
2	Disconnect signaling channel	[3] 13.1	O

Table 10b: Stream Discovery and Configuration (Acceptor, Sink)

Prerequisite: AVDTP 1/4 "Acceptor" AND AVDTP 1/2 "Sink"

Item	Capability	Reference	Status
1	Stream discover response	[3] 6.4, 6.6, 8.6, 13.1	O
2	Stream get capabilities response	[3] 6.4, 6.7, 8.7, 13.1	C.2
3	Set configuration response	[3] 6.4, 6.9, 8.9, 13.1	O
4	Get configuration response	[3] 6.4, 6.10, 8.10, 13.1	O
5	Reconfigure response	[3] 6.4, 6.15, 8.11, 13.1	O
6	Stream get all capabilities response	[3] 6.4, 6.8, 8.8, 13.1	O

C.1: No longer used.

C.2: Mandatory IF AVDTP 10b/6 "Stream get all capabilities response", otherwise Optional.

Table 11b: Stream Establishment, Suspension and Release (Acceptor, Sink)

Prerequisite: AVDTP 1/4 "Acceptor" AND AVDTP 1/2 "Sink"

Item	Capability	Reference	Status
1	Open stream response	[3] 6.4, 6.11, 8.12, 13.1	O
2	Start stream response	[3] 6.4, 6.12, 8.13, 13.1	O
3	Close stream response	[3] 6.4, 6.13, 8.14, 13.1	O
4	Suspend response	[3] 6.4, 6.14, 8.15, 13.1	O
5	Abort stream response	[3] 6.4, 6.17, 8.16, 13.1	O
6	General reject message	[3] 8.18	O

Table 12b: Security Signaling (Acceptor, Sink)

Prerequisite: AVDTP 1/4 "Acceptor" AND AVDTP 1/2 "Sink"

Item	Capability	Reference	Status
1	Content security control response	[3] 6.4, 6.16, 8.17, 13.1	O

Table 13b: Message Fragmentation (Acceptor, Sink)

Prerequisite: AVDTP 1/4 "Acceptor" AND AVDTP 1/2 "Sink"

Item	Capability	Reference	Status
1	Signaling message fragmentation	[3] 8.3	M

2.6 Message Error Handling Capabilities

Table 16: Message Error Handling Capabilities

Item	Capability	Reference	Status
1	Reporting Capability Error	[3] 8.20.6.2	M
2	Reject Corrupted Messages	[1] [2] 8.4.6	C.2
3	General Reject Response Includes Signal ID	[3] 8.18	M

C.1: No longer used.

C.2: Excluded for this Profile.

2.7 Upper Tester Interface

Table 17: Upper Test Interface

Item	Capability	Reference	Status
1	Upper Tester Interface provided	[3] 13	O

2.8 L2CAP requirements

Table 18: L2CAP Requirements

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Enhanced Retransmission Mode	[3] 9.11	O	[4] L2CAP 2/12
2	Streaming Mode	[3] 9.11	O	[4] L2CAP 2/13
3	FCS Option	[3] 9.11	C.1	[4] L2CAP 2/14

C.1: Mandatory IF AVDTP 18/1 “Enhanced Retransmission Mode”, otherwise Optional.

3 References

[1] Audio/Video Distribution Transport Protocol Specification, Version 1.0

[2] Audio/Video Distribution Transport Protocol Specification, Version 1.2

[3] Audio/Video Distribution Transport Protocol Specification, Version 1.3

[4] ICS Proforma for Logical Link Control and Adaptation Protocol (L2CAP)

4 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
	0.5	2001-06-01	Release to Associates
	0.7	2001-09-01	Release to Associates
	0.9	2001-11-01	Release to Associates
	0.90a	2002-02-01	Release
0	1.00	2003-02-01	Release for Voting Draft
1	Version 1.0	2003-05-31	Updated title and header
	Version 1.2 R00	2004-04-14	Updated Disclaimer and Copyright Notice. Clerical changes
2	Version 1.2 R01	2004-04-19	Corrected internal cross reference hyperlink
	1.2.2r1	2005-02-21	Editorial and format changes. Change document number.
3	1.2.2	2005-03-01	Prepare for publication.
	1.2.3r1	2005-03-11	Added Table 16 Errata Service Releases for ESR02 Errata Service Release to Specification Versions 1.1, 1.2, and Profiles.
4	1.2.3	2005-03-16	Prepare for publication.
	1.2.4r0,1	2005-07-07	Added second item to Table 16 (TSE #749). Added Table 17 (TSE 776 and TSE 777); removed TOC per Test Spec. Mgr. Deleted blank last page. Corrected cross-reference to [R1]. Corrected level 2 heading numbering.
5	1.2.4	2006-08-16	Prepare for publication
	1.2.5r0	2010-01-27	TSE 4273: Add Table 0: Profile versions
6	1.2.5	2009-12-01	Release for Synchronization Voting Draft
	1.3.0r0	2011-02-11	Prepare for publication
	1.3.0r1	2011-03-31	Update after AV F2F
	1.3.0r2	2011-11-15	Update for Core Spec 2.1+EDR
	1.3.0r3	2012-01-05	Implemented comments from BTI initial review
	1.3.0r4	2012-01-15	Fixed Table 16 item 3 for clarity
	1.3.0r5	2012-02-20	Revised to latest PICS template
	1.3.0r6	2012-04-03	Editorial updates
	1.3.0r7	2012-05-22	Applied conditional changes requested in BTI review.
	1.3.0r8	2012-05-31	Corrected Conditionals in Table 16
	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.

Publication Number	Revision Number	Date	Comments
	1.3.1r00	2015-04-22	TSE 6232: Table 16 / C.1: Corrected to Mandatory. Editorial updates throughout document for consistency in conditional syntax.
	1.3.1r01	2015-06-05	Deleted Section 1.2 (Global Statement of Conformance) per current ICS template standards.
	1.3.1r02	2015-06-08	Review by Magnus Sommansson Removal of Appendix A – Acronyms and Abbreviations
	1.3.1r03	2015-06-11	Review by Alicia Courtney Converted to current document template.
8	1.3.1	2015-07-14	Prepared for TCRL 2015-1 publication
	1.3.2r00	2017-03-29	TSE 8372: Template conversion. Added additional ICS tables Source and Sink as the first level role.
9	1.3.2	2017-07-03	Approved by BTI. Prepared for TCRL 2017-1 publication.
10	1.3.3r00	2017-08-29	TSE 9738: Corrected note C.2 in Table 10.
	1.3.4r00–r01	2019-04-08 – 2019-06-19	TSE 11211 (rating 2): Added Tables 14a and 15a; updated Table 0; updated notes in several other tables throughout.
11	1.3.4	2019-07-28	Approved by BTI. Prepared for TCRL 2019-1 publication.
	1.3.4ed2r00–r02	2021-03-15 – 2021-05-19	TSE 16008 (rating 1): Updated Tables 14a and 15a statuses to reflect deprecation and withdrawal information. Set previous version 1.3.4 as publication number 11. Editorials from template and consistency checker.
	1.3.4 edition 2	2021-05-26	Approved by BTI on 2021-05-06. Prepared for edition 2 publication.
	1.3.4ed3r00	2021-10-14	TSE 17680 (rating 1): Updated deprecation and withdrawal dates and addressed other consistency checker editorials.
	1.3.4 edition 3	2021-11-22	Approved by BTI on 2021-11-08. Prepared for edition 3 publication.
	p12r00–02	2023-08-30 – 2023-11-27	TSE 23947 (rating 2): Added a Reference to the L2CAP ICS. Updated Tables 14a and 15a to reflect deprecated/withdrawn specs, removed conditionals, and relocated to the Versions section at the beginning of the document. Updated references globally. Removed the conditional from Table 14. Removed C.1 from Table 4, 4b, 10, 10b, 15, and 16. Updated Status of 4/6, 4b/6, 10/6, 10b/6, 14/6, 15/6, 16/1, and 16/3. Removed C.3 from Table 16. Updated capability names for 18/1 and 18/2 and added an ILD column to Table 18.
12	p12	2024-07-01	Approved by BTI on 2024-05-22. Prepared for TCRL 2024-1 publication.

Publication Number	Revision Number	Date	Comments
	p13r00	2025-02-24	TSE 27020 (rating 2): Added “Core Configuration” section and Table 0a. Applied the current ICS template.
13	p13	2025-07-08	Approved by BTI on 2025-05-30. Prepared for TCRL pkg100 publication.
	p14r00	2025-12-05 – 2026-01-06	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.
14	p14	2026-02-17	Approved by BTI on 2026-01-22. Prepared for TCRL pkg102 publication.

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