Video Distribution Profile (VDP)

Bluetooth® Implementation Conformance Statement (ICS) Proforma

- **Revision:** VDP.ICS.p7
- **Revision Date:** 2025-07-08
- **Prepared By:** BTI
- **Published during TCRL:** TCRL.pkg100

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: X.Y Versions

Item	Version	Reference	Status
1	VDP v1.0**	[1]	Deprecated 2025-02-01. Withdrawn 2027-02-01.
2	VDP v1.1	[7]	M

2.2   Core Configuration

Table 0a: 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".

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: Source Features

Prerequisite: VDP 1/1 "Source"

Item	Feature	Reference	Status
1	Initiate Connection Establishment by SRC	[2] 4.1.1	M
2	Accept Connection Establishment by SRC	[2] 4.1.1	M
3	Initiate Start Streaming by SRC	[2] 4.1.2	M
4	Accept Start Streaming by SRC	[2] 4.1.2	M
5	Send H.263 baseline Video Stream	[1] 3.2.1, 4.2, 4.3	C.1
6	Send MPEG-4 Visual Simple Profile Video Stream	[1] 3.2.1, 4.4	C.1
7	Send H.263 profile 3 Video Stream	[1] 3.2.1, 4.5	C.1

** 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.

Item	Feature	Reference	Status
8	Send H.263 profile 8 Video Stream	[1] 3.2.1, 4.6	C.1
9	Send Vendor Specific VDP Codec Video Stream	[1] 3.2.1, 4.7	C.1
10	Initiate Connection Release by SRC	[2] 4.1.3	M
11	Accept Connection Release by SRC	[2] 4.1.3	M
12	Initiate Suspend by SRC	[2] 4.1.4	O
13	Accept Suspend by SRC	[2] 4.1.4	O

C.1:   Mandatory to support at least one.

2.4.1   Video Coding requirements

Table 3: Supported codecs in SRC

Prerequisite: VDP 1/1 "Source"

Item	Feature	Reference	Status
1	Video encoder implementation	[1] 4.2	O
2	H.263 baseline encoder	[1] 4.3	C.1
3	MPEG-4 Visual Simple Profile encoder	[1] 4.4	C.2
4	H.263 profile 3 encoder	[1] 4.5	C.2
5	H.263 profile 8 encoder	[1] 4.6	C.2
6	Vendor Specific VDP codec encoder	[1] 4.7	C.3

C.1:   Mandatory IF VDP 3/1 "Video encoder implementation", otherwise Excluded.

C.2:   Optional IF VDP 3/1 "Video encoder implementation", otherwise Excluded.

C.3:   Optional IF VDP 3/1 "Video encoder implementation", otherwise Excluded. Note: If supported, give a reference to the encoder in the IXIT section.

2.4.2   Requirements towards other profiles

2.4.2.1   Requirements towards SDP

Table 8: SDP Attributes (Source)

Prerequisite: VDP 1/1 "Source"

Item	Feature	Reference	Status	Inter-Layer Dependency
1	ServiceClassIDList	[1] 5.3	M	[3] SDP 9/19
2	ProtocolDescriptorList	[1] 5.3	M	[3] SDP 9/2
3	BluetoothProfileDescriptorList	[1] 5.3	M	[3] SDP 9/14

2.4.2.2   Requirements towards GAVDP

Table 9: GAVDP roles (Source)

Prerequisite: VDP 1/1 "Source"

Item	Feature	Reference	Status	Inter-Layer Dependency
1	Initiator	[1] 5.1.1	M	[5] GAVDP 1/1

Item	Feature	Reference	Status	Inter-Layer Dependency
2	Acceptor	[1] 5.1.1	M	[5] GAVDP 1/2
3	Delay Reporting Initiator	[1] 5.1.1	C.2	[5] GAVDP 1/3
4	Delay Reporting Acceptor	[1] 5.1.1	O	[5] GAVDP 1/4

C.1:   No longer used.

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

2.4.2.3   Requirements towards Baseband (BB)

Table 6: Baseband (BB) packet types (Source)

Prerequisite: VDP 1/1 "Source"

Item	Feature	Reference	Status	Inter-Layer Dependency
1	DM3 packet type	[1] 5.5	M	[4] BB 5/2
2	DH3 packet type	[1] 5.5	M	[4] BB 5/3
3	DM5 packet type	[1] 5.5	M	[4] BB 5/4
4	DH5 packet type	[1] 5.5	M	[4] BB 5/5

2.4.2.4   Requirements towards GAP

Table 7: Generic Access Profile (GAP) Procedures (Source)

Prerequisite: VDP 1/1 "Source"

Item	Feature	Reference	Status	Inter-Layer Dependency
1	General discoverable mode	[1] 6.1	C.1	[6] GAP 1/3
2	Limited discoverable mode	[1] 6.1	C.1	[6] GAP 1/2
3	No longer used	N/A	N/A	N/A
4	Bondable mode	[1] 6.1	M	[6] GAP 1/7
5	Initiation of general inquiry	[1] 6.3	M	[6] GAP 3/1
6	Initiation of limited inquiry	[1] 6.3	O	[6] GAP 3/2

C.1:   Mandatory to support at least one.

2.5   Sink features

Table 4: Sink Features

Prerequisite: VDP 1/2 "Sink"

Item	Feature	Reference	Status
1	Initiate Connection Establishment by SNK	[2] 4.1.1	O
2	Accept Connection Establishment by SNK	[2] 4.1.1	M
3	Initiate Start Streaming by SNK	[2] 4.1.2	O
4	Accept Start Streaming by SNK	[2] 4.1.2	M

Item	Feature	Reference	Status
5	Receive H.263 baseline Video Stream	[1] 3.2.2, 4.3	M
6	Receive MPEG-4 Visual Simple Profile Video Stream	[1] 3.2.2, 4.4	O
7	Receive H.263 profile 3 Video Stream	[1] 3.2.3, 4.5	O
8	Receive H.263 profile 8 Video Stream	[1] 3.2.4, 4.6	O
9	Initiate Connection Release by SNK	[2] 4.1.3	M
10	Accept Connection Release by SNK	[2] 4.1.3	M
11	Initiate Suspend by SNK	[2] 4.1.4	O
12	Accept Suspend by SNK	[2] 4.1.4	O
13	Delay Reporting	[2] 4.1.8	M

2.5.1 Video Coding requirements

Table 5: Supported codecs in SNK

Prerequisite: VDP 1/2 "Sink"

Item	Feature	Reference	Status
1	Video decoder implementation	[1] 4.2	O
2	H.263 baseline decoder	[1] 4.3	C.1
3	MPEG-4 Visual Simple Profile decoder	[1] 4.4	C.2
4	H.263 profile 3 decoder	[1] 4.5	C.2
5	H.263 profile 8 decoder	[1] 4.6	C.2
6	Vendor Specific VDP codec decoder	[1] 4.7	C.3

C.1:   Mandatory IF VDP 5/1 "Video decoder implementation", otherwise Excluded.

C.2:   Optional IF VDP 5/1 "Video decoder implementation", otherwise Excluded.

C.3:   Optional IF VDP 5/1 "Video decoder implementation", otherwise Excluded. Note: If supported, give a reference to the decoder in the IXIT section.

2.5.2 Requirements towards other profiles

2.5.2.1 Requirements towards SDP

Table 10: SDP Attributes (Sink)

Prerequisite: VDP 1/2 "Sink"

Item	Feature	Reference	Status	Inter-Layer Dependency
1	ServiceClassIDList	[1] 5.3	M	[3] SDP 9/19
2	ProtocolDescriptorList	[1] 5.3	M	[3] SDP 9/2
3	BluetoothProfileDescriptorList	[1] 5.3	M	[3] SDP 9/14

2.5.2.2 Requirements towards GAVDP

Table 11: GAVDP roles (Sink)

Prerequisite: VDP 1/2 "Sink"

Item	Feature	Reference	Status	Inter-Layer Dependency
1	Initiator	[1] 5.1.1	O	[5] GAVDP 1/1
2	Acceptor	[1] 5.1.1	M	[5] GAVDP 1/2
3	Delay Reporting Initiator	[1] 5.1.1	M	[5] GAVDP 1/3
4	Delay Reporting Acceptor	[1] 5.1.1	C.2	[5] GAVDP 1/4

C.1:   No longer used.

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

2.5.2.3 Requirements towards Baseband (BB)

Table 12: Baseband (BB) packet types (Sink)

Prerequisite: VDP 1/2 "Sink"

Item	Feature	Reference	Status	Inter-Layer Dependency
1	DM3 packet type	[1] 5.5	M	[4] BB 5/2
2	DH3 packet type	[1] 5.5	M	[4] BB 5/3
3	DM5 packet type	[1] 5.5	M	[4] BB 5/4
4	DH5 packet type	[1] 5.5	M	[4] BB 5/5

2.5.2.4 Requirements towards GAP

Table 13: Generic Access Profile (GAP) Procedures (Sink)

Prerequisite: VDP 1/2 "Sink"

Item	Feature	Reference	Status	Inter-Layer Dependency
1	General discoverable mode	[1] 6.1	C.1	[6] GAP 1/3
2	Limited discoverable mode	[1] 6.1	C.1	[6] GAP 1/2
3	No longer used	N/A	N/A	N/A
4	Bondable mode	[1] 6.1	M	[6] GAP 1/7
5	Initiation of general inquiry	[1] 6.3	O	[6] GAP 3/1
6	Initiation of limited inquiry	[1] 6.3	O	[6] GAP 3/2

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

3 References

[1] Video Distribution Profile Specification, Version 1.0 or later

[2] Generic Audio/Video Distribution Profile Specification

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

[4] ICS Proforma for Baseband (BB)

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

[6] ICS Proforma for Generic Access Profile (GAP)

[7] Video Distribution Profile Specification, Version 1.1

4 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
0	V10r00	2004-09-08	Editorial changes for adoption
1	1.0.1r1	2006-03-10	Editorial updates
2	1.0.2r0	2006-05-31	Change revision number, remove Appendix, prepare for publication.
	1.1.0r1	2011-03-20	Update after AV F2F
	1.1.0r2	2011-11-18	Incorporated changes from Core Spec 2.1+EDR updates
	1.1.0r3	2012-02-20	Apply the latest PICS template
	1.1.0r4	2012-04-17	BTI comment resolution
	1.1.0r5	2012-06-21	Applied Conditionals to tables previously using "X" as a status
	1.1.0r6	2012-07-01	Revised section numbering as defined in published ICS template.
3	1.1.0	2012-07-24	Prepared for TCRL 2012-2 publication.
	1.1.1r00	2017-04-18	TSE 8411: Updated Template.
4	1.1.1	2017-07-03	Approved by BTI. Prepared for TCRL 2017-1 publication.
	p5r00	2022-02-25 – 2022-04-06	TSE 17931 (rating 2): Renumbered VDP Sink features and codecs tables to align with Launch Studio. Made many template-related editorials, including aligning the copyright page with v2 of the DNMD and assigning publication number 4 to previous v1.1.1. TSE 18647 (rating 2): Updated C.2 of Tables 9 and 11 and removed item 3 and C.2 from Tables 7 and 13 to address an issue with prerequisites repeating in conditionals.
5	p5	2022-06-28	Approved by BTI on 2022-05-31. Prepared for TCRL 2022-1 publication.
	p6r00–r01	2024-10-16 – 2024-11-19	TSE 26369 (rating 1): Updated Table 0 to show VDP v1.0 as deprecated and withdrawn and to cut conditional C.1. Updated Tables 4, 9, and 11 to show conditional C.1 for each as no longer used. Updated References to add VDP v1.1, and updated table spacing to current guidelines. Incorporated consistency checker editorials. Deleted draft revision history comments prior to p0.
6	p6	2025-02-18	Approved by BTI on 2024-12-25. Prepared for TCRL 2025-1 publication.
	p7r00	2025-03-20	TSE 27018 (rating 2): Added Table 0a, Core Configuration Requirements. Incorporated editorials to align the document with the latest ICS template, including the addition of a section heading for the Roles section.

Publication Number	Revision Number	Date	Comments
7	p7	2025-07-08	Approved by BTI on 2025-05-30. Prepared for TCRL pkg100 publication.