3D Synchronization Profile (3DSP)

Bluetooth® Implementation Conformance Statement (ICS) Proforma

- **Revision:** 3DSP.ICS.p9
- **Revision Date:** 2026-02-17
- **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: X.Y Versions

Item	Version	Reference	Status
1	3DSP v1.0	[1] 3DSP v1.0	C.1, C.2
2–4	No longer used	N/A	N/A

C.1: Mandatory.

C.2: Can only be supported with an active X.Y.Z version after Deprecation or Withdrawal. Deprecated 2014-04-22. Withdrawn 2022-02-01.

Table 0a: X.Y.Z Versions

Item	Version	Reference	Status
1	No longer used	N/A	N/A
2	3DSP v1.0.1**	[6] 3DSP v1.0.1	Deprecated 2021-02-01. Withdrawn 2022-02-01.
3	3DSP v1.0.2**	[7] 3DSP v1.0.2	Deprecated 2021-02-01. Withdrawn 2022-02-01.
4	3DSP v1.0.3	[8] 3DSP v1.0.3	C.2

C.1: No longer used.

C.2: Mandatory IF 3DSP 0/1 "3DSP v1.0", otherwise Excluded.

2.2 Core Configuration

Table 0b: Core Configuration Requirements

Item	Core Configuration	Reference	Status
1	Profile supported over BR/EDR	[1] 1.4	C.1, C.3
2	Profile supported over LE	[1] 1.4	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	3DD – 3D Display	[1] 2.2	C.1
2	3DG – 3D Glasses	[1] 2.2	C.1

C.1: Mandatory to support at least one.

** 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.

2.4   3DD

2.4.1   3DD Features

Table 2: 3DD Features

Prerequisite: 3DSP 1/1 "3DD – 3D Display"

Item	Capability	Reference	Status
1	Frame Sync	[1] 2.6.1, 4	M
2	Proximity Association Response	[1] 2.6.2, 5	M
3	Reference Protocol Association Notification Reception	[1] 2.6.6	O
4	3DG Connection Announcement Reception	[1] 2.6.3	C.1
5	Battery Level Reporting Reception	[1] 2.6.7, 6.4.2	C.2
6	Association Notification Reception	[1] 2.6.4, 7.5	C.3
7	3D Broadcast Message Transmission	[1] 2.6.8	M

C.1:   Mandatory IF 3DSP 2/3 "Reference Protocol Association Notification Reception", otherwise Optional.

C.2:   Optional IF 3DSP 2/4 "3DG Connection Announcement Reception", otherwise Excluded.

C.3:   Mandatory IF 3DSP 2/3 "Reference Protocol Association Notification Reception" OR 3DSP 2/5 "Battery Level Reporting Reception", otherwise Optional IF 3DSP 2/4 "3DG Connection Announcement Reception", otherwise Excluded.

2.4.2   Proximity Association

Table 3: 3DD Proximity Association

Prerequisite: 3DSP 1/1 "3DD – 3D Display"

Item	Capability	Reference	Status
1	Class of Device	[1] 5.1.1	M
2	3D Information EIR Field	[1] 5.1.2.1	M
3	Legacy 3D Information EIR Field	[1] 5.1.2.2	M
4	TX Power Level Field	[1] 5.1.2.3	M

2.5   3DG

2.5.1   3DG Features

Table 4: 3DG Features

Prerequisite: 3DSP 1/2 "3DG – 3D Glasses"

Item	Capability	Reference	Status
1	Proximity Association Initiation	[1] 5.3	M
2	Legacy Association Notification Transmission	[1] 2.6.4	O
3	3DG Connection Announcement Transmission	[1] 6.2	C.1
4	Battery Level Reporting Transmission	[1] 6.4.1	C.2
4a	Support for User Request for Battery Level Display	[1] 6.4.1	O
5	Association Notification Transmission	[1] 6.3.1	C.2

Item	Capability	Reference	Status
6	3D Broadcast Message Reception	[1] 8.5	C.3
7	Shutter Control	[1] 9.3	M

C.1: Mandatory IF 3DSP 4/2 "Legacy Association Notification Transmission", otherwise Optional.

C.2: Optional IF 3DSP 4/3 "3DG Connection Announcement Transmission", otherwise Excluded.

C.3: Mandatory IF 3DSP 4/2 "Legacy Association Notification Transmission" OR 3DSP 4/4 "Battery Level Reporting Transmission", otherwise Optional IF 3DSP 4/3 "3DG Connection Announcement Transmission", otherwise Excluded.

2.5.2 Proximity Association

Table 5: 3DG Proximity Association

Prerequisite: 3DSP 1/2 "3DG – 3D Glasses"

Item	Capability	Reference	Status
1	Class of Device	[1] 5.1.1	M
2	Path Loss Threshold	[1] 5.3	M
3	3D Information EIR Field	[1] 5.1.2.1	M

2.6 Profile and Protocol Dependencies

2.6.1 BB requirements

Table 6: BB Requirements (3DD)

Prerequisite: 3DSP 1/1 "3DD – 3D Display"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Connectionless Peripheral Broadcast Transmitter	[1] 10.1	M	[3] BB 3a/1
2	Synchronization Train	[1] 10.1	M	[3] BB 9c/1

Table 7: BB Requirements (3DG)

Prerequisite: 3DSP 1/2 "3DG – 3D Glasses"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Connectionless Peripheral Broadcast Receiver	[1] 10.1	M	[3] BB 3a/2
2	Synchronization Scan	[1] 10.1	M	[3] BB 9c/2

2.6.2   GAP requirements

Table 8: GAP Requirements (3DD)

Prerequisite: 3DSP 1/1 "3DD – 3D Display"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Synchronizable mode	[1] 10.3	M	[2] GAP 1/9
2	No longer used	N/A	N/A	N/A
3	General discoverable mode	[1] 10.3	M	[2] GAP 1/3

Table 9: GAP Requirements (3DG)

Prerequisite: 3DSP 1/2 "3DG – 3D Glasses"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Synchronization Establishment as receiver	[1] 10.3	M	[2] GAP 4/7
2	No longer used	N/A	N/A	N/A

2.6.3   L2CAP requirements

Table 10: L2CAP Requirements (3DD)

Prerequisite: 3DSP 1/1 "3DD – 3D Display"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Unicast Connectionless Data, Reception	[1] 10.2	C.1	[4] L2CAP 2/35

C.1:   Mandatory IF 3DSP 2/5 "Battery Level Reporting Reception" OR 3DSP 2/6 "Association Notification Reception", otherwise Optional.

Table 11: L2CAP Requirements (3DG)

Prerequisite: 3DSP 1/2 "3DG – 3D Glasses"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Ability to transmit an unencrypted packet over a Unicast connectionless L2CAP channel	[1] 10.2	C.1	[4] L2CAP 2/36

C.1:   Mandatory IF 3DSP 4/4 "Battery Level Reporting Transmission" OR 3DSP 4/5 "Association Notification Transmission", otherwise Optional.

2.6.4   SDP requirements

Table 12: SDP Requirements

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Server	[1] 10.4	M	[5] SDP 1b/1
2–4	No longer used	N/A	N/A	N/A
5	ServiceName	[1] 10.4	O	[5] SDP 9/9
6	BluetoothProfileDescriptorList	[1] 10.4	M	[5] SDP 9/14
7	No longer used	N/A	N/A	N/A

3   References

[1]   3D Synchronization Profile Specification, Version 1.0 or later

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

[3]   ICS Proforma for Baseband (BB)

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

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

[6]   3D Synchronization Profile Specification, Version 1.0.1

[7]   3D Synchronization Profile Specification, Version 1.0.2

[8]   3D Synchronization Profile Specification, Version 1.0.3

4 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
0	1.0.0	2013-03-18	Prepare for Publication
	1.0.1r01	2013-09-03	Added Erratum 5256 and 3DSP 1.0.1 to Table 0. Created C.1 and C.2 conditionals. Added reference [6] to be 3DSP version 1.0.1 or later. Added reference [7] to be the Erratum location.
1	1.0.1	2013-10-22	Prepare for Publication
	1.0.2r01	2013-10-22	TSE 5241: Addition of item 4a in Table 4.
	1.0.2r02	2013-10-22	TSE 5364: Changed table condition for Table 1 , C.1: Mandatory to support at least one of 1/1 or 1/2
2	1.0.2	2013-12-03	Prepare for Publication
	1.0.2.0r00	2015-05-20	ESR08 update: Added item 4 to Table 0 for 3DSP 1.0.2 Added reference [8] for 3DSP 1.0.2
	1.0.2.0r01	2015-06-03	Converted to current document template.
3	1.0.2.0	2015-07-14	Prepared for TCRL 2015-1 publication
	1.0.3.0r00	2015-10-28	Updated version numbering to align with Specification version change to 1.0.3 for ESR09.
	1.0.3.0r01 to 1.0.3.0r03	2015-11-02 to 2015-11-23	Added item 0/5 for new Specification version 1.0.3 (ESR09). Added Table 0a for minor profile versions.
4	1.0.3.0	2015-12-22	Prepared for TCRL 2015-2 publication.
	1.0.3.1r00	2018-04-04	TSE 10571 (rating 1): Template Conversion.
5	1.0.3.1	2018-07-01	Approved by BTI. Prepared for TCRL 2018-1 publication.
	1.0.3.2r00	2018-09-24	Drafted Deprecation /Withdrawal changes
6	1.0.3.2	2018-11-21	Approved by BTI. Prepared for TCRL 2018-2 publication.
	1.0.3.2ed2 r00	2021-01-12	TSE 15973 (rating 1): Changes for Deprecation. Minor editorials. Fixed instances of Master and Slave to Central and Peripheral, respectively.
	1.0.3.2 edition 2	2021-02-01	Approved by BTI on 2021-01-18. Prepared for edition 2 publication.
	1.0.3.2ed3 r00–r03	2021-03-15 – 2021-05-19	TSE 16564 (rating 1): Corrected logic issues by updating conditionals in Tables 0a and 4; updating items in Tables 6–12; and updating the Prerequisite in Table 12. Editorials to bring references up to latest drafting guidelines. Editorials from consistency checker.
	1.0.3.2 edition 3	2021-05-26	Approved by BTI on 2021-05-06. Prepared for edition 3 publication.

Publication Number	Revision Number	Date	Comments
	1.0.3.2 ed4r00	2021-07-15	TSE 17164 (rating 1): Corrected the deprecation date for 3DSP v1.0.
	1.0.3.2 edition 4	2021-08-19	Approved by BTI on 2021-08-19. Prepared for edition 4 publication.
	1.0.3.2 ed5r00–r01	2021-09-17 – 2021-09-24	TSE 17483 (rating 1): Corrected C.1 of Table 0 to align with more recent language conventions. Consistency checker editorials based on the latest ICS template.
	1.0.3.2 edition 5	2021-09-28	Approved by BTI on 2021-09-27. Prepared for edition 5 publication.
	p7r00–r02	2023-08-30 – 2024-02-12	TSE 23946 (rating 2): Relabeled the subsections and tables in the Profile and Protocol Dependencies section. Cleaned up the SDP ILDs by removing items 12/2, 12/3, 12/4, and 12/7 as well as the prerequisite from Table 12. Updated the Capability description for 12/1. Editorials to align the document with the latest ICS template.
7	p7	2024-07-01	Approved by BTI on 2024-05-22. Prepared for TCRL 2024-1 publication.
	p8r00–r01	2025-02-21 – 2025-05-09	TSE 26843 (rating 2): Updated Table 0 conditional C.2. Added "Core Configuration" section and Table 0b. Applied the current ICS template. TSE 27669 (rating 1): Marked 3DSP 8/2 and 3DSP 9/2 as no longer used.
8	p8	2025-07-08	Approved by BTI on 2025-05-30. Prepared for TCRL pkg100 publication.
	p9r00–r01	2025-12-04 – 2026-01-14	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.
9	p9	2026-02-17	Approved by BTI on 2026-01-22. Prepared for TCRL pkg102 publication.