Transport Discovery Service (TDS)

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

- **Revision:** TDS.ICS.p3 edition 2
- **Revision Date:** 2025-08-05
- **Prepared By:** Discovery of Things Working Group
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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: X.Y Versions

Item	Version	Reference	Status
1	TDS v1.0	[1]	C.1
2	TDS v1.1	[4]	C.1

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

Table 1: No longer used

2.2 Transports

Table 2: Transport Requirements

Item	Transport	Reference	Status
1	Service supported over LE	[1] 1.5, 2	C.1, C.3
2	Service supported over BR/EDR	[1] 1.5, 5 [4] 1.5, 6	C.2, C.4

C.1: Excluded for this Service IF CORE 41/1 “BR/EDR Core Configuration”.

C.2: Excluded for this Service IF CORE 41/2 “LE Core Configuration”.

C.3: Mandatory for this Service.

C.4: Optional for this Service.

2.3 Service requirements

Table 3: Global Feature Requirements

Item	Feature	Reference	Status
1	Transport Data Field in Transport Discovery Data AD Type	[1] 3.1.2.4	O
2	Multiple Transport Blocks supported in Transport Discovery Data AD Type	[1] 3.1.2.5	O

Table 4: GATT Database Requirements

Prerequisite: TDS 8/2 “Support for Peripheral Role”

Item	Characteristic or Property	Reference	Status
1	TDS Control Point characteristic	[1] 4.1	O
2	BR-EDR Handover Data	[4] 5, 5.1	C.1
3	Bluetooth SIG Data	[4] 5, 5.2	C.1
4	Complete BR-EDR Transport Block Data descriptor	[4] 5, 5.2.1	C.2

C.1: Optional IF TDS 0/2 “TDS v1.1”, otherwise Excluded.

C.2: Optional IF TDS 4/3 “Bluetooth SIG Data”, otherwise Excluded.

Table 5: TDS Control Point Features

Prerequisite: TDS 4/1 “TDS Control Point characteristic”

Item	Feature	Reference	Status
1	Activate Transport Procedure	[1] 4.1.3	M
2	Parameter in Activate Transport Procedure supported	[1] 4.1.3	M

2.4 GATT requirements

Table 6: GATT Requirements

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Write Characteristic Value	[1] 1.4	C.1	[2] GATT 4/14
2	Indications	[1] 1.4	C.1	[2] GATT 4/18
3	Read Characteristic Descriptors	[1] 1.4	C.1	[2] GATT 4/19
4	Write Characteristic Descriptors	[1] 1.4	C.1	[2] GATT 4/21
5	GATT Server over BR/EDR	[1] 1.4	C.2	[2] GATT 1a/4
6	GATT Server over LE	[1] 1.4	M	[2] GATT 1a/3

C.1: Mandatory IF TDS 4/1 “TDS Control Point characteristic”, otherwise Optional.

C.2: Mandatory IF TDS 2/2 “Service supported over BR/EDR”, otherwise not defined.

2.5 SDP requirements

Table 7: SDP Requirements

Prerequisite: TDS 2/2 “Service supported over BR/EDR”

Item	Capability	Reference	Status
1	SDP record present for TDS	[1] 5 [4] 6	M
2–3	No longer used	N/A	N/A

2.6 GAP requirements

Table 8: LE Role Requirements

Item	Capability	Reference	Status
1	Support for Broadcast Mode	[1] 2	C.1
2	Support for Peripheral Role	[1] 2	C.1

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

Table 9: GAP Requirements

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Broadcaster	[1] 2	C.1	[3] GAP 5/1 OR GAP 38/1
2	Peripheral	[1] 2	C.2	[3] GAP 5/3 OR GAP 38/3

C.1: Mandatory IF TDS 8/1 “Support for Broadcast Mode”, otherwise not defined.

C.2: Mandatory IF TDS 8/2 “Support for Peripheral Role”, otherwise not defined.

3 References

[1] Transport Discovery Service, Version 1.0

[2] ICS Proforma for Generic Attribute Profile (GATT)

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

[4] Transport Discovery Service, Version 1.1

4 Revision history and acknowledgments

Revision History

Publication Number	Revision History	Date	Comments
0	1.0.0	2015-11-17	Spec adopted by BoD. Prepared for publication.
	1.0.0 edition 2r00	2018-11-26	Editorial changes only. Template updated. Revision History and contributors moved to the end of the document.
1	1.0.0 edition 2	2020-01-10	Updated copyright page and confidentiality markings to support new Documentation Marking Requirements, performed minor formatting updates, and accepted all tracked changes to prepare for edition 2 publication.
	1.1.0r00-CR – p2r06	2019-07-29 – 2020-07-12	Per TSE ID 12392, corrected typos in Table 8 and introduced editorial changes in Table 2, 4 and 6. Incorporated D1.1 changes: Added entry for TDS 1.1 to new Table 4a. Moved Revision History and Contributors tables to end of document. Incorporated feedback from BTI by updating Table 1 as “No longer used” and changed reference to Core Specification v4.2 or later. Updated ICS to the latest template format. Updated Table 2 by adding the Inter Layer Dependency (ILD) items for the GAP Device Configuration. Removed the ILD column and GAP references from Table 2. Updated ICS to the latest template format. Updated document numbering. Resolved BTI comments: Removed Table 4a by adding the items to Table 4. Added Table 9 and editorial changes.
2	p2	2020-08-18	Set publication number for previous v1.0.0 edition 2 to publication 1. Approved by BTI on 2020-08-03. TDS v1.1 specification adopted by BoD on 2020-08-11. Prepared for publication.
	p3r00	2023-10-10	TSE 23680 (rating 2): Resolved GATT and SDP inter-layer dependencies. Made editorial edits to align the document with the latest ICS template, including updates to the IUT identification section, updates to table titles and spacing, and removal of “is supported” language in conditionals. Updated C.1 for Tables 0 and 8. Deleted Table 1, which is no longer used. In Table 6, added Items 5 and 6 and conditional C.2. In Table 7, deleted the ILD column, updated the Capability value for Item 1, and marked Items 2–3 as no longer used. Updated the references. Updated the copyright page to align with v2 of the DNMD.

Publication Number	Revision History	Date	Comments
3	p3	2024-07-01	Approved by BTI on 2024-04-21. Prepared for TCRL 2024-1 publication.
	p3ed2r00–r01	2025-07-11 – 2025-07-30	TSE 27342 (rating 1): Updated the Status for TDS 2/1 and TDS 2/2, and added conditions C.1–C.4. Incorporated editorials to align the document with the latest ICS template, including updates to Section 1 and the addition of a section heading for the ICS declarations section.
	p3 edition 2	2025-08-05	Approved by BTI on 2025-08-05. Prepared for edition 2 publication.

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