

# Tx Power Service (TPS)

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

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# 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	TPS v1.0	[1]	M

### 2.2 Transports

Table 1: Transport Requirements

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

C.1: Excluded for this Service.

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

C.3: Mandatory for this Service.

### 2.3 Service requirements

Table 2: Service Requirements

Item	Capability	Reference	Status
1	Tx Power Service	[1] 2.1	M
2	Tx Power Level Characteristic	[1] 3.1	M
3	Tx Power Level Characteristic, Read	[1] 3.1.1	M
4–6	No longer used	N/A	N/A

### 2.4 GATT requirements

Table 3: GATT Requirements

Item	Capability	Reference	Status	Inter-Layer Dependency
1	GATT Server over LE	[1] 1.4	M	[2] GATT 1a/3
2–4	No longer used	N/A	N/A	N/A

## 3 References

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- [1] Tx Power Service Specification, Version 1.0
- [2] ICS Proforma for Generic Attribute Profile (GATT)



## 4 Revision history and acknowledgments

### Revision History

Publication Number	Revision Number	Date	Comments
0	1.0.0	2011-06-27	Prepare for publication.
	1.0.1r0	2011-12-15	TSE 4635: Update Table 1 to reference GAP 0/3 to align with other GATT based services
1	1.0.1	2012-03-30	Prepare for publication.
	1.0.2r0	2012-05-21	TSE 4721: Table 2/4: Change status, add C.2 TSE 4745: Remove Item 2/5 (leave blank)
2	1.0.2	2012-07-24	Prepare for publication.
	1.0.3r00	2016-11-01	TSE 8023: Added Table 0. Updated References section. Editorial updates to table endnotes throughout (Tables 2 and 3). Updated template.
3	1.0.3	2016-12-13	Approved by BTI. Prepared for TCRL 2016-2 publication.
	1.0.3 edition 2r00	2018-11-26	Editorial changes only. Template updated. Revision History and contributors moved to the end of the document.
	1.0.3 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.
	p4r00	2022-10-05 – 2022-10-06	TSE 19223 (rating 1): Updated to align with current ICS conventions/template. Removed Support columns and added an Inter-Layer Dependency column where appropriate. Replaced the Bluetooth logo in footers and updated the copyright page to align with v2 of the DNMD. Updated references. Removed the SDP table since BR/EDR is not supported for TPS. Removed GATT Notification and Write Characteristic since Service characteristic is READ only. Performed additional template-related formatting fixes. Added a Publication Number column to the Revision History. Revised the document numbering convention, setting the last release publication of 1.0.3 as p3.
4	p4	2023-02-07	Approved by BTI on 2022-12-28. Prepared for TCRL 2022-2 publication.
	p5r00-r01	2025-01-30 – 2025-02-18	TSE 27098 (rating 2): Updated Table 0 title. Updated Table 1 item 2 status value and added conditionals C.2 and C.3. Updated formatting for Tables 2 and 3. Updated Table 3 item 1 Capability and Inter-Layer Dependency values.
5	p5	2025-07-08	Approved by BTI on 2025-06-15. Prepared for TCRL pkg100 publication.

Publication Number	Revision Number	Date	Comments
	p6r00	2025-12-04 – 2026-01-03	TSE 28169 (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.
6	p6	2026-02-17	Approved by BTI on 2026-01-21. Prepared for TCRL pkg102 publication.

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