

Binary Sensor Service (BSS)

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	BSS v1.0	[1]	M

Table 1: No longer used

2.2 Transports

Table 2: 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 Binary Sensor

2.3.1 Service requirements

Table 3: Binary Sensor, Service Requirements

Item	Capability	Reference	Status
1	Binary Sensor Service	[1] 2.1	M
2	BSS Control Point	[1] 3, 3.1	M
3	BSS Response	[1] 3, 3.2	M

2.3.2 Control Point Procedures and Parameters

Table 4: Control Point Procedures and Parameters

Prerequisite: BSS 3/2 “BSS Control Point”

Item	Capability	Reference	Status
1	Get Sensor Status Command	[1] 4. 1, 4.1.1	M
2	Setting Sensor Command	[1] 4.1, 4.1.2	M
3	Sensor Status Event	[1] 4.1, 4.1.3	M
4	Named Sensors	[1] 4.1, 4.1.2	O
5	Single Sensor	[1] 4	C.1
6	Multiple Sensors	[1] 4	C.1



C.1: Mandatory to support at least one.

2.3.3 GATT requirements

Table 5: GATT Requirements

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Write Characteristic Value	[1] 1.4	M	[2] GATT 4/14
2	Indication	[1] 1.4	M	[2] GATT 4/18
3	GATT Server over LE	[1] 1.4	M	[2] GATT 1a/3

3 References

- [1] Binary Sensor Service (BSS) Specification
- [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	2019-07-02	Binary Sensor Service adopted by the Board of Directors. Prepared for publication.
	p1r00-r01	2022-09-14 – 2022-11-08	TSE 19260 (rating 1): Updated to align with current ICS conventions/template. Removed Support columns and added an Inter-Layer Dependency column where appropriate. Added a Publication Number column to the Revision History. Revised the document numbering convention, setting the last release publication of 1.0.0 as p0. Performed additional template-related formatting fixes. Replaced Bluetooth logo in footer and updated the copyright page to align with v2 of the DNMD.
1	p1	2023-02-07	Approved by BTI on 2022-12-28. Prepared for TCRL 2022-2 publication.
	p2r00-r02	2025-01-30 – 2025-04-29	TSE 26840 (rating 2): Updated Table 0 title, Table 1 “No longer used” wording, and Table 4 conditional C.1. Added item 3 to Table 5. TSE 27294 (rating 1): Updated the Status value for BSS 2/2 and added conditions C.2 and C.3 to Table 2. Deleted draft revision history comments prior to p0.
2	p2	2025-07-08	Approved by BTI on 2025-06-15. Prepared for TCRL pkg100 publication.
	p3r00-r01	2025-12-04 – 2025-12-30	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.
3	p3	2026-02-17	Approved by BTI on 2026-01-21. Prepared for TCRL pkg102 publication.

Acknowledgments

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