

Broadcast Audio Scan Service (BASS)

Bluetooth® Implementation Conformance Statement (ICS) Proforma

- **Revision:** BASS.ICS.p5
- **Revision Date:** 2025-07-08
- **Prepared By:** Generic Audio Working Group
- **Published during TCRL:** TCRL.pkg100



This document, regardless of its title or content, is not a Bluetooth Specification as defined in the Bluetooth Patent/Copyright License Agreement (“PCLA”) and Bluetooth Trademark License Agreement. Use of this document by members of Bluetooth SIG is governed by the membership and other related agreements between Bluetooth SIG Inc. (“Bluetooth SIG”) and its members, including the PCLA and other agreements posted on Bluetooth SIG’s website located at www.bluetooth.com.

THIS DOCUMENT IS PROVIDED “AS IS” AND BLUETOOTH SIG, ITS MEMBERS, AND THEIR AFFILIATES MAKE NO REPRESENTATIONS OR WARRANTIES AND DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY, TITLE, NON-INFRINGEMENT, FITNESS FOR ANY PARTICULAR PURPOSE, THAT THE CONTENT OF THIS DOCUMENT IS FREE OF ERRORS.

TO THE EXTENT NOT PROHIBITED BY LAW, BLUETOOTH SIG, ITS MEMBERS, AND THEIR AFFILIATES DISCLAIM ALL LIABILITY ARISING OUT OF OR RELATING TO USE OF THIS DOCUMENT AND ANY INFORMATION CONTAINED IN THIS DOCUMENT, INCLUDING LOST REVENUE, PROFITS, DATA OR PROGRAMS, OR BUSINESS INTERRUPTION, OR FOR SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY, AND EVEN IF BLUETOOTH SIG, ITS MEMBERS, OR THEIR AFFILIATES HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

This document is proprietary to Bluetooth SIG. This document may contain or cover subject matter that is intellectual property of Bluetooth SIG and its members. The furnishing of this document does not grant any license to any intellectual property of Bluetooth SIG or its members.

This document is subject to change without notice.

Copyright © 2019–2025 by Bluetooth SIG, Inc. The Bluetooth word mark and logos are owned by Bluetooth SIG, Inc. Other third-party brands and names are the property of their respective owners.



Contents

- 1 General principles 4**
 - 1.1 Implementation Under Test (IUT) identification 4
 - 1.2 Enforcement of inter-layer dependencies 4
- 2 ICS declarations..... 5**
 - 2.1 Versions 5
 - 2.2 Transports..... 5
 - 2.3 Service requirements 5
 - 2.3.1 Broadcast Audio Scan Service 5
 - 2.4 GATT requirements 6
 - 2.5 SDP requirements..... 6
- 3 References 7**
- 4 Revision history and acknowledgments 8**



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	BASS v1.0	[1]	M

Table 1: X.Y.Z Versions

Item	Version	Reference	Status
1	BASS v1.0.1	[4]	O

2.2 Transports

Table 2: Transport Requirements

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

C.1: Excluded for this Service IF CORE 41/2 "LE Core Configuration".

C.2: Excluded for this Service IF CORE 41/1 "BR/EDR Core Configuration".

C.3: Mandatory to support at least one.

2.3 Service requirements

2.3.1 Broadcast Audio Scan Service

Table 3: Broadcast Audio Scan Service

Item	Feature	Reference	Status	Inter-Layer Dependency
1	Broadcast Audio Scan Control Point Characteristic	[1] 3.1	M	N/A
2	Broadcast Receive State Characteristic	[1] 3.2	M	N/A
2a	Broadcast Receive State characteristic: Bad_Code 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	[1] 3.1.1.4, 3.1.1.5, 3.2, 3.2.1.8	C.1	N/A
3	Periodic Advertising Synchronization Transfer procedure	[1] 3.1.1.4	O	[2] GAP 27a/1
4	Broadcast Isochronous Synchronization Establishment procedure	[1] 3.1.1.4	O	[2] GAP 16/2
5	Autonomous Syncing Support	[1] 3.2.1	O	N/A

C.1: Optional IF BASS 0/1 "BASS v1.0" AND NOT BASS 1/1 "BASS v1.0.1", otherwise Mandatory.

Table 4: Broadcast Audio Scan Control Point

Item	Feature	Reference	Status
1	Remote Scan Stopped	[1] 3.1.1.2	C.1
2	Remote Scan Started	[1] 3.1.1.3	C.1
3	Add Source	[1] 3.1.1.4	C.1
4	Modify Source	[1] 3.1.1.5	C.1
5	Set Broadcast Code	[1] 3.1.1.6	M
6	Remove Source	[1] 3.1.1.7	C.1

C.1: Mandatory to support none or all.

2.4 GATT requirements

Table 5: GATT Requirements

Item	Feature	Reference	Status	Inter-Layer Dependency
1	Write without Response	[1] 1.4	M	[3] GATT 4/12
2	Write Characteristic Value	[1] 1.4	M	[3] GATT 4/14
3	Single Notification	[1] 1.4	M	[3] GATT 4/17
4	Read Characteristic Descriptors	[1] 1.4	M	[3] GATT 4/19
5	Write Characteristic Descriptors	[1] 1.4	M	[3] GATT 4/21
6	Write Long Characteristic Values	[1] 1.4	C.1	[3] GATT 4/15
7	GATT Server over BR/EDR	[1] 1.4	C.2	[3] GATT 1a/4
8	GATT Server over LE	[1] 1.4	C.3	[3] GATT 1a/3

C.1: Mandatory IF BASS 4/3 "Add Source", otherwise not defined.

C.2: Mandatory IF BASS 2/1 "Service supported over BR/EDR", otherwise not defined.

C.3: Mandatory IF BASS 2/2 "Service supported over LE", otherwise not defined.

2.5 SDP requirements

Table 6: SDP Requirements

Prerequisite: BASS 2/1 "Service supported over BR/EDR"

Item	Feature	Reference	Status
1	SDP record present for BASS	[1] 4	M
2–4	No longer used	N/A	N/A

3 References

- [1] Broadcast Audio Scan Service (BASS), Version 1.0 or later
- [2] ICS Proforma for Generic Access Profile (GAP)
- [3] ICS Proforma for Generic Attribute Profile (GATT)
- [4] Broadcast Audio Scan Service (BASS), Version 1.0.1

4 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
0	p0	2021-09-21	Approved by BTI on 2021-08-25. Broadcast Audio Scan Service (BASS) v1.0 adopted by the BoD on 2021-09-14. Prepared for initial publication.
	p1r00–r01	2023-04-16 – 2023-05-25	TSE 22759 (rating 4): Updated the feature description for Item 5 of Table 3. Updated C.1 of Table 4. Editorials to align the document with the latest ICS template. Deleted draft revision history comments prior to p0.
1	p1	2023-06-29	Approved by BTI on 2023-06-05. Prepared for TCRL 2023-1 publication.
	p2r00	2023-08-15	TSE 23658 (rating 2): Added 5/7 and 5/8 and related conditionals C.2 and C.3. Editorials to align with the latest ICS template.
2	p2	2024-07-01	Approved by BTI on 2024-04-21. Prepared for TCRL 2024-1 publication.
	p3r00–r02	2024-08-26 – 2024-08-29	TSE 25122 (rating 3): Per E23366, added item 2a and conditional C.1 for Table 3. Incorporated consistency checker updates.
3	p3	2024-10-08	Approved by BTI on 2024-09-11. EE 23366 adopted by the BoD on 2024-10-01. Prepared for TCRL 2024-2-addition publication.
	p4r00–r02	2024-11-21 – 2024-12-12	TSE 26109 (rating 2): Added X.Y.Z version table and updated conditional C.1 for table 3.
4	p4	2025-02-18	Approved by BTI on 2025-02-09. BASS v1.0.1 adopted by the BoD on 2024-02-11. Prepared for TCRL 2025-1 publication.
	p5r00–r01	2025-04-07 – 2025-04-22	TSE 27314 (rating 1): Updated the Status value for BASS 2/1 and BASS 2/2. Added conditions C.1 and C.2 to Table 2, and renumbered C.1 as C.3.
5	p5	2025-07-08	Approved by BTI on 2025-05-30. Prepared for TCRL pkg100 publication.

Acknowledgments

Name	Company
Dejan Berec	Bluetooth SIG, Inc.
Gene Chang	Bluetooth SIG, Inc.
Charlie Lenahan	Bluetooth SIG, Inc.
Alicia Courtney	Broadcom