Public Broadcast Profile (PBP)

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

- **Revision:** PBP.ICS.p3
- **Revision Date:** 2025-11-04
- **Prepared By:** Audio, Telephony, and Automotive Working Group
- **Published during TCRL:** TCRL.pkg101

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 Roles

Table 1: Role Requirements

Item	Role	Reference	Status
1	Public Broadcast Source	[1] 2.1	C.1
2	Public Broadcast Sink	[1] 2.1	C.1
3	Public Broadcast Assistant	[1] 2.1	C.1

C.1: Mandatory to support at least one.

2.2 Transports

Table 2: Transport Requirements

Item	Transport	Reference	Status
1	Profile supported over BR/EDR	[1] 2.3 [4] 2.4	C.1
2	Profile supported over LE	[1] 2.3 [4] 2.4	C.2, C.3

C.1: Excluded for this Profile.

C.2: Excluded for this Profile IF CORE 41/1 “BR/EDR Core Configuration”.

C.3: Mandatory for this Profile.

2.3 Public Broadcast Source Role

Table 3: X.Y Versions

Prerequisite: PBP 1/1 “Public Broadcast Source”

Item	Version	Reference	Status
1	PBP v1.0	[1]	M

Table 4: X.Y.Z Versions

Prerequisite: PBP 1/1 “Public Broadcast Source”

Item	Version	Reference	Status
1	PBP v1.0.1	[4]	C.1
2	PBP v1.0.2	[5]	C.1

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

2.3.1 Public Broadcast Source Role Features

Table 5: Public Broadcast Source Role – Support Requirements

Prerequisite: PBP 1/1 "Public Broadcast Source"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Initiator	[1] 3.1.1 [4] 3.1	M	[3] CAP 1/2
2	BAP Broadcast Source	[1] 2.1 [4] 3.1	M	[3] CAP 16/2

Table 6: Public Broadcast Source Role – Features

Prerequisite: PBP 1/1 "Public Broadcast Source"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Transmit Program_Info Metadata	[1] 3.1.2 [4] 3.2.2	O	N/A
2	BAP Broadcast Audio Stream Metadata Update	[1] 3.1.2 [4] 3.2.2	C.1	[2] BAP 51/1
3	Public Broadcast Announcement	[1] 4	M	N/A
4	Standard Quality Public Broadcast Audio	[1] 4.1	M	N/A
5	High Quality Public Broadcast Audio	[1] 4.2	O	N/A
6	Encrypted Broadcast Isochronous Stream	[1] 4	C.2	[2] BAP 61/6
7	Unencrypted Broadcast Isochronous Stream	[1] 4	C.2	[2] BAP 61/5
8	Broadcast Name AD Type	[1] 5	M	N/A
9	Broadcast Name of length 4 to 32 octets	[5] 5.1.1	C.3	N/A

C.1: Mandatory IF PBP 6/1 "Transmit Program_Info Metadata", otherwise not defined.

C.2: Mandatory to support at least one.

C.3: Mandatory IF PBP 4/2 "PBP v1.0.2", otherwise Optional.

Table 7: Standard Quality Public Broadcast Audio Configuration Support Requirements

Prerequisite: PBP 6/4 "Standard Quality Public Broadcast Audio"

Item	Settings	Reference	Status	Inter-Layer Dependency
Low Latency				
1	16_2_1 LC3: 10000 SDU Interval, unframed, 40 Max SDU Size, 2 RTN, 10 Max_Transport_Latency	[1] 4.2	M	[2] BAP 55/4
2	24_2_1 LC3: 10000 SDU Interval, unframed, 60 Max SDU Size, 2 RTN, 10 Max_Transport_Latency	[1] 4.2	O	[2] BAP 55/6

Item	Settings	Reference	Status	Inter-Layer Dependency
High Reliability				
3	16_2_2 LC3: 10000 SDU Interval, unframed, 40 Max SDU Size, 4 RTN, 60 Max_Transport_Latency	[1] 4.2	M	[2] BAP 56/4
4	24_2_2 LC3: 10000 SDU Interval, unframed, 60 Max SDU Size, 4 RTN, 60 Max_Transport_Latency	[1] 4.2	O	[2] BAP 56/6

Table 8: High Quality Public Broadcast Audio Configuration Support Requirements

Prerequisite: PBP 6/5 "High Quality Public Broadcast Audio"

Item	Settings	Reference	Status	Inter-Layer Dependency
Low Latency				
1	48_1_1 LC3: 7500 SDU Interval, unframed, 75 Max SDU Size, 4 RTN, 15 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 55/11
2	48_2_1 LC3: 10000 SDU Interval, unframed, 100 Max SDU Size, 4 RTN, 20 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 55/12
3	48_3_1 LC3: 7500 SDU Interval, unframed, 90 Max SDU Size, 4 RTN, 15 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 55/13
4	48_4_1 LC3: 10000 SDU Interval, unframed, 120 Max SDU Size, 4 RTN, 20 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 55/14
5	48_5_1 LC3: 7500 SDU Interval, unframed, 117 Max SDU Size, 4 RTN, 15 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 55/15
6	48_6_1 LC3: 10000 SDU Interval, unframed, 155 Max SDU Size, 4 RTN, 20 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 55/16
High Reliability				
7	48_1_2 LC3: 7500 SDU Interval, unframed, 75 Max SDU Size, 4 RTN, 50 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 56/11
8	48_2_2 LC3: 10000 SDU Interval, unframed, 100 Max SDU Size, 4 RTN, 65 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 56/12
9	48_3_2 LC3: 7500 SDU Interval, unframed, 90 Max SDU Size, 4 RTN, 50 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 56/13
10	48_4_2 LC3: 10000 SDU Interval, unframed, 120 Max SDU Size, 4 RTN, 65 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 56/14

Item	Settings	Reference	Status	Inter-Layer Dependency
11	48_5_2 LC3: 7500 SDU Interval, unframed, 117 Max SDU Size, 4 RTN, 50 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 56/15
12	48_6_2 LC3: 10000 SDU Interval, unframed, 155 Max SDU Size, 4 RTN, 65 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 56/16

C.1: Mandatory to support at least one.

2.4 Public Broadcast Sink Role

Table 9: X.Y Versions

Prerequisite: PBP 1/2 "Public Broadcast Sink"

Item	Version	Reference	Status
1	PBP v1.0	[1]	M

Table 10: X.Y.Z Versions

Prerequisite: PBP 1/2 "Public Broadcast Sink"

Item	Version	Reference	Status
1	PBP v1.0.1	[4]	C.1
2	PBP v1.0.2	[5]	C.1

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

2.4.1 Public Broadcast Sink Role Features

Table 11: Public Broadcast Sink Role – Support Requirements

Prerequisite: PBP 1/2 "Public Broadcast Sink"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Acceptor	[1] 3.2.1 [4] 3.1	M	[3] CAP 1/1
2	BAP Broadcast Sink	[1] 3.2.1 [4] 3.1	M	[3] CAP 6/3

Table 12: Public Broadcast Sink Role – Features

Prerequisite: PBP 1/2 "Public Broadcast Sink"

Item	Capability	Reference	Status
1	Standard Quality Public Broadcast Audio	[1] 4.1	M
2	High Quality Public Broadcast Audio	[1] 4.2	O
3	Broadcast Name of length 4 to 32 octets	[5] 5.1.1	C.1

C.1: Mandatory IF PBP 10/2 "PBP v1.0.2", otherwise Optional.

Table 13: Standard Quality Public Broadcast Audio configuration support requirements

Prerequisite: PBP 12/1 "Standard Quality Public Broadcast Audio"

Item	Settings	Reference	Status	Inter-Layer Dependency
Low Latency				
1	16_2_1 LC3: 10000 SDU Interval, unframed, 40 Max SDU Size, 2 RTN, 10 Max_Transport_Latency	[1] 4.2	M	[2] BAP 69/4
2	24_2_1 LC3: 10000 SDU Interval, unframed, 60 Max SDU Size, 2 RTN, 10 Max_Transport_Latency	[1] 4.2	M	[2] BAP 69/6
High Reliability				
3	16_2_2 LC3: 10000 SDU Interval, unframed, 40 Max SDU Size, 4 RTN, 60 Max_Transport_Latency	[1] 4.2	M	[2] BAP 70/4
4	24_2_2 LC3: 10000 SDU Interval, unframed, 60 Max SDU Size, 4 RTN, 60 Max_Transport_Latency	[1] 4.2	M	[2] BAP 70/6

Table 14: High Quality Public Broadcast Audio Configuration Support Requirements

Prerequisite: PBP 12/2 "High Quality Public Broadcast Audio"

Item	Settings	Reference	Status	Inter-Layer Dependency
Low Latency				
1	48_1_1 LC3: 7500 SDU Interval, unframed, 75 Max SDU Size, 4 RTN, 15 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 69/11
2	48_2_1 LC3: 10000 SDU Interval, unframed, 100 Max SDU Size, 4 RTN, 20 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 69/12
3	48_3_1 LC3: 7500 SDU Interval, unframed, 90 Max SDU Size, 4 RTN, 15 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 69/13
4	48_4_1 LC3: 10000 SDU Interval, unframed, 120 Max SDU Size, 4 RTN, 20 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 69/14
5	48_5_1 LC3: 7500 SDU Interval, unframed, 117 Max SDU Size, 4 RTN, 15 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 69/15
6	48_6_1 LC3: 10000 SDU Interval, unframed, 155 Max SDU Size, 4 RTN, 20 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 69/16
High Reliability				
7	48_1_2 LC3: 7500 SDU Interval, unframed, 75 Max SDU Size, 4 RTN, 50 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 70/11

Item	Settings	Reference	Status	Inter-Layer Dependency
8	48_2_2 LC3: 10000 SDU Interval, unframed, 100 Max SDU Size, 4 RTN, 65 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 70/12
9	48_3_2 LC3: 7500 SDU Interval, unframed, 90 Max SDU Size, 4 RTN, 50 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 70/13
10	48_4_2 LC3: 10000 SDU Interval, unframed, 120 Max SDU Size, 4 RTN, 65 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 70/14
11	48_5_2 LC3: 7500 SDU Interval, unframed, 117 Max SDU Size, 4 RTN, 50 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 70/15
12	48_6_2 LC3: 10000 SDU Interval, unframed, 155 Max SDU Size, 4 RTN, 65 Max_Transport_Latency	[1] 4.3	C.1	[2] BAP 70/16

C.1: Mandatory to support at least one.

2.4.2 Feature requirements in Core layers

2.4.2.1 LL requirements

Table 14a: LL Requirements – PBK

Prerequisite: PBP 1/2 “Public Broadcast Sink”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	LE 2M PHY	[5] 3.5	C.1	[6] LL 9/7

C.1: Mandatory IF PBP 10/2 “PBP v1.0.2”, otherwise Optional.

2.5 Public Broadcast Assistant Role

Table 15: X.Y Versions

Prerequisite: PBP 1/3 “Public Broadcast Assistant”

Item	Version	Reference	Status
1	PBP v1.0	[1]	M

Table 16: X.Y.Z Versions

Prerequisite: PBP 1/3 “Public Broadcast Assistant”

Item	Version	Reference	Status
1	PBP v1.0.1	[4]	C.1
2	PBP v1.0.2	[5]	C.1

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

2.5.1 Public Broadcast Assistant Role Features

Table 17: Public Broadcast Assistant Role – Support Requirements

Prerequisite: PBP 1/3 "Public Broadcast Assistant"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Commander	[1] 3.3.1 [4] 3.1	M	[3] CAP 1/3
2	BAP Broadcast Assistant	[1] 3.3.1 [4] 3.1	M	[3] CAP 26/2

Table 17a: Public Broadcast Assistant Role – Features

Prerequisite: PBP 1/3 "Public Broadcast Assistant"

Item	Capability	Reference	Status
1	Broadcast Name of length 4 to 32 octets	[5] 5.1.1	C.1

C.1: Mandatory IF PBP 16/2 "PBP v1.0.2", otherwise Optional.

2.5.2 Feature requirements in Core layers

2.5.2.1 LL requirements

Table 18: LL Requirements – PBA

Prerequisite: PBP 1/3 "Public Broadcast Assistant"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	LE 2M PHY	[5] 3.5	C.1	[6] LL 9/7

C.1: Mandatory IF PBP 16/2 "PBP v1.0.2", otherwise Optional.

3 References

[1] Public Broadcast Profile Specification, Version 1.0 or later

[2] ICS Proforma for Basic Audio Profile (BAP)

[3] ICS Proforma for Common Audio Profile (CAP)

[4] Public Broadcast Profile Specification, Version 1.0.1 or later

[5] Public Broadcast Profile Specification, Version 1.0.2 or later

[6] ICS Proforma for Link Layer (LL)

4 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
0	p0	2022-07-12	Approved by BTI on 2022-07-03. PBP v1.0 adopted by the BoD on 2022-07-05. Prepared for initial publication.
	p1r00–r01	2024-08-13 – 2024-08-26	TSE 25246 (rating 1): Per E24733, updated the references cited in Tables 2, 5, 6, 11, and 17. Updated the references list to add PBP v1.0.1. TSE 25564 (rating 1): Per E23389, E23860, and E24733, added Tables 4, 10, and 16 to account for PBP v1.0.1 as part of the .Z release. Updated the references list. Made editorial updates to align the document with the latest ICS template. Updated the copyright year.
1	p1	2024-10-08	Approved by BTI on 2024-09-11. PBP v1.0.1 adopted by the BoD on 2024-10-01. Prepared for TCRL 2024-2-addition publication.
	p2r00	2025-04-21	TSE 27358 (rating 1): Updated the Status value for PBP 2/2 and added conditions C.2 and C.3 to Table 2. 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.
2	p2	2025-07-08	Approved by BTI on 2025-05-30. Prepared for TCRL pkg100 publication.
	p3r00–r03	2025-07-23 – 2025-08-18	TSE 27403 (rating 4): Per E23131, updated entries and added conditional C.1 to Tables 4, 10, and 16. Added new sections for Feature requirements in Core layers and LL requirements. Added Tables 14a and 18. Updated References section. TSE 27940 (rating 4): Per E24424, added new row and conditional C.3 to Table 6. Added new row and conditional C.1 to Table 12. Added Table 17a.
3	p3	2025-11-04	Approved by BTI on 2025-09-29. Prepared for TCRL pkg101 publication.

Acknowledgments

Name	Company
Siegfried Lehmann	Apple Inc.
Dejan Berec	Bluetooth SIG, Inc.
Tharon Hall	Bluetooth SIG, Inc.
Rasmus Abildgren	Bose
Nick Hunn	GN Hearing A/S
HJ Lee	LG Electronics
Chris Church	Qualcomm
Georg Dickmann	Sonova AG

Name	Company
Andrew Estrada	Sony Corporation
Jeff Solum	Starkey Hearing Technologies