

Public Broadcast Profile (PBP)

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 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]	O

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

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

C.2: Mandatory to support at least one.

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]	O

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

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.

2.5 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]	O

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

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

4 Revision history and acknowledgments

Revision History

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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.
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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.
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