

Out-of-Band Pairing Uniform Resource Identifier (OPU)

Bluetooth® Implementation Conformance Statement (ICS) Proforma

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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	Roles	5
2.4	OPU Encoder	6
2.5	OPU Decoder.....	7
3	References	8
4	Revision history and acknowledgments	9



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 (OPU Encoder)

Prerequisite: OPU 3/1 “OPU Encoder”

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

Table 0a: X.Y.Z Versions (OPU Encoder)

Table number reserved but not yet in use.

Table 1: X.Y Versions (OPU Decoder)

Prerequisite: OPU 3/2 “OPU Decoder”

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

Table 1a: X.Y.Z Versions (OPU Decoder)

Table number reserved but not yet in use.

2.2 Transports

Table 2: Transport Requirements

Item	Capability	Reference	Status
1	Pairing supported for BR/EDR	[1] 4	C.1, C.3
2	Pairing supported for LE	[1] 4	C.2, C.3

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

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

C.3: Mandatory to support at least one.

2.3 Roles

Table 3: Role Requirements

Item	Role	Reference	Status
1	OPU Encoder	[1] 3.1	C.1
2	OPU Decoder	[1] 3.2	C.1

C.1: Mandatory to support at least one.



2.4 OPU Encoder

Table 10: OPU Encoder Elements Supported

Prerequisite: OPU 3/1 “OPU Encoder”

Item	Capability	Reference	Status
1	Display Name	[1] 5.2	M
2	Device Address Type	[1] 5.2	C.1
3	Device Address	[1] 5.2	M
4	Transport Type for Pairing	[1] 5.2	M
5	Secure Connections Random number	[1] 5.2	M
6	Secure Connections Confirm value	[1] 5.2	M
7	Vendor Specific	[1] 5.2	O
8	Uniform Resource Locator (URL)	[1] 5.7	O
9	Manufacturer Name	[1] 5.7	O
10	Model Number	[1] 5.7	O
11	Vendor ID	[1] 5.7	O
12	Product ID	[1] 5.7	O
13	LE Advertising Data	[1] 5.7	C.2
14	BR/EDR Extended Inquiry Response	[1] 5.7	C.3

C.1: Mandatory IF OPU 2/2 “Pairing supported for LE”, otherwise Excluded.

C.2: Optional IF OPU 2/2 “Pairing supported for LE”, otherwise Excluded.

C.3: Optional IF OPU 2/1 “Pairing supported for BR/EDR”, otherwise Excluded.

Table 11: GAP Requirements – Encoder

Prerequisite: OPU 3/1 “OPU Encoder”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Connectable undirected events	[1] 5.6.1	C.1	[2] GAP 20/5
2	Out of Band (LE)	[1] 5.6.1	C.1	[2] GAP 27b/9
3	Connectable mode	[1] 5.6.2	C.2	[2] GAP 1/5
4	Out-of-Band (BR/EDR)	[1] 5.6.2	C.2	[2] GAP 2/14
5	Secure Connections	[1] 5.6.2	C.2	[2] GAP 4d/1
6	LE Secure Connections	[1] 5.6.1	C.1	[2] GAP 27b/5
7	Peripheral	[1] 3.1.1	C.1	[2] GAP 5/3

C.1: Mandatory IF OPU 2/2 “Pairing supported for LE”, otherwise not defined.

C.2: Mandatory IF OPU 2/1 “Pairing supported for BR/EDR”, otherwise not defined.

2.5 OPU Decoder

Table 20: OPU Decoder Elements Supported

Prerequisite: OPU 3/2 “OPU Decoder”

Item	Capability	Reference	Status
1	Display Name	[1] 5.2	M
2	Device Address Type	[1] 5.2	C.1
3	Device Address	[1] 5.2	M
4	Transport Type for Pairing	[1] 5.2	M
5	Secure Connections Random number	[1] 5.2	M
6	Secure Connections Confirm value	[1] 5.2	M
7	Vendor Specific	[1] 5.2	O
8	Uniform Resource Locator (URL)	[1] 5.7	O
9	Manufacturer Name	[1] 5.7	O
10	Model Number	[1] 5.7	O
11	Vendor ID	[1] 5.7	O
12	Product ID	[1] 5.7	O
13	LE Advertising Data	[1] 5.7	C.2
14	BR/EDR Extended Inquiry Response	[1] 5.7	C.3

C.1: Mandatory IF OPU 2/2 “Pairing supported for LE”, otherwise Excluded.

C.2: Optional IF OPU 2/2 “Pairing supported for LE”, otherwise Excluded.

C.3: Optional IF OPU 2/1 “Pairing supported for BR/EDR”, otherwise Excluded.

Table 21: GAP Requirements – Decoder

Prerequisite: OPU 3/2 “OPU Decoder”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Out of Band (LE)	[1] 5.6.1	C.1	[2] GAP 37b/9
2	Extended Inquiry Response	[1] 5.6.2	C.2	[2] GAP 4e/3
3	Out-of-Band (BR/EDR)	[1] 5.6.2	C.3	[2] GAP 2/14
4	Secure Connections	[1] 5.6.2	C.3	[2] GAP 4d/1
5	LE Secure Connections	[1] 5.6.1	C.1	[2] GAP 37b/5
6	Central	[1] 3.1.2	C.1	[2] GAP 5/4

C.1: Mandatory IF OPU 2/2 “Pairing supported for LE”, otherwise not defined.

C.2: Optional IF OPU 2/1 “Pairing supported for BR/EDR”, otherwise not defined.

C.3: Mandatory IF OPU 2/1 “Pairing supported for BR/EDR”, otherwise not defined.

3 References

- [1] Out-of-Band Pairing Uniform Resource Identifier Specification, Version 1.0
- [2] ICS Proforma for Generic Access Profile (GAP)

4 Revision history and acknowledgments

Revision History

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0	p0	2026-09-29	Approved by BTI on 2026-09-09. OPU v1.0 adopted by the BoD on 2026-09-28. Prepared for initial publication.

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