

Basic Lightness Controller NLC Profile (BLCNLCP)

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	BLCNLCP v1.0	[1]	M

Table 1: X.Y.Z Versions

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

2.2 Transports

Table 2: Transport Requirements

Item	Transport	Reference	Status
1	Profile supported over BR/EDR	[1] 2.6	C.1
2	Profile supported over LE	[1] 2.6	C.2, C.3

C.1: Excluded for this Profile.

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

C.3: Mandatory for this Profile.

2.3 Features

Table 3: Features

Table number reserved but not yet in use.

2.4 Mesh Model requirements

Table 4: Mesh Model Features

Item	Model	Reference	Status	Inter-Layer Dependency
1	MMDL v1.1 or later	[1] 2.5	M	[3] MMDL 0d/1
2	Generic OnOff Server	[1] 3.5	M	[3] MMDL 2/1
3	Generic Level Server	[1] 3.5	M	[3] MMDL 2/2
4	Generic Power OnOff Server	[1] 3.5	M	[3] MMDL 2/4
5	Light Lightness Server	[1] 3.5	M	[3] MMDL 19/1
6	Light LC Server	[1] 3.5	M	[3] MMDL 20/1
7	Light LC Setup Server	[1] 3.5	M	[3] MMDL 20/2
8	Scene Server	[1] 3.5	M	[3] MMDL 14/3

2.5 Mesh Protocol requirements

Table 5: Mesh Protocol Features

Item	Feature	Reference	Status	Inter-Layer Dependency
1	Node	[1] 3	M	[2] MESH 2/1
2	Advertising Bearer	[1] 3.2	M	[2] MESH 3/1
3	Relay Feature	[1] 3.3	M	[2] MESH 5/2
4	GATT Bearer	[1] 3.2	M	[2] MESH 3/2
5	PB-GATT Server	[1] 3.1	M	[2] MESH 4/2
6	Proxy Server	[1] 3.3	M	[2] MESH 12/1
7	GATT Server over LE	[1] 3.2	M	[2] MESH 12/2
8	Mesh Provisioning Service	[1] 3.1	M	[2] MESH 13/1
9	Mesh Proxy Service	[1] 3.2	M	[2] MESH 13/2
10	Composition Data Page 2	[1] 2.1	M	[2] MESH 11/24

3 References

- [1] Basic Lightness Controller NLC Profile Specification, Version 1.0 or later
- [2] ICS Proforma for Mesh Protocol Specification (MESH)
- [3] ICS Proforma for Mesh Model Specification (MMDL)
- [4] Basic Lightness Controller NLC Profile Specification, Version 1.0.1

4 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
0	p0	2023-09-19	Approved by BTI on 2023-08-27. BLCNLCP v1.0 adopted by the BoD on 2023-09-12. Prepared for initial publication.
	p1r00	2024-08-08	TSE 25598 (rating 1): Per E25030 and E24814, added new X.Y.Z version as part of the .Z release. Added a reference to Basic Lightness Controller NLC Profile Specification, Version 1.0.1.
1	p1	2024-10-08	Approved by BTI on 2024-08-28. BLCNLCP v1.0.1 adopted by the BoD on 2024-10-01. Prepared for TCRL 2024-2-addition publication.
	p2r00–r02	2025-12-09 – 2025-12-18	TSE 28111 (rating 2): Updated Table 2 to add the missing condition to Core-Transport configurations and to include the exclusion of the layer for a Core-Controller. Editorials to align the document with the current template.
2	p2	2026-02-17	Approved by BTI on 2026-01-21. Prepared for TCRL pkg102 publication.

Acknowledgments

Name	Company
Bogdan Alexandru	Bluetooth SIG, Inc.