# Dimming Control NLC Profile (DICNLCP)

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

- **Revision:** DICNLCP.ICS.p2
- **Revision Date:** 2026-02-17
- **Prepared By:** Mesh Working Group
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# 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<br>Referred layer is supported | N/A |
| Lower HCI layer | HCI is supported | N/A |
| Upper HCI layer | Core-Host configuration, or<br>UHCI is supported | N/A |
| Host layer | Core-Host configuration, or<br>Core-Complete configuration, or<br>Referred layer is supported | N/A |
| X2Core layer | Core-Host configuration, or<br>Core-Complete configuration, or<br>Referred layer is supported | Core-Host configuration, or<br>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 | DICNLCP v1.0 | [1] | M |

**Table 1: X.Y.Z Versions**

| Item | Version | Reference | Status |
|---|---|---|---|
| 1 | DICNLCP 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 Level Client | [1] 3.5 | M | [3] MMDL 3/2 |
| 3 | Generic Delta Set Unacknowledged | [1] 3.5 | C.1 | [3] MMDL 5/5 |
| 4 | Generic Move Set Unacknowledged | [1] 3.5 | C.1 | [3] MMDL 5/7 |

C.1: Mandatory to support at least one.

## 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] Dimming Control 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] Dimming Control 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. DICNLCP v1.0 adopted by the BoD on 2023-09-12. Prepared for initial publication. |
| | p1r00 | 2024-08-08 | TSE 25600 (rating 1): Per E25065 and E24816, added new X.Y.Z version as part of the .Z release. Added a reference to Dimming Control NLC Profile Specification, Version 1.0.1. |
| 1 | p1 | 2024-10-08 | Approved by BTI on 2024-08-28. DICNLCP 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 28114 (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.<br>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. |

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| Name | Company |
|---|---|
| Bogdan Alexandru | Bluetooth SIG, Inc. |