

Link Loss Service (LLS)

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	LLS v1.0	[1]	C.1, C.2
2	No longer used	N/A	N/A

C.1: Mandatory for this Service.

C.2: Can only be supported with an active X.Y.Z version after Deprecation or Withdrawal. Deprecated 2028-02-01. Withdrawn 2030-02-01.

Table 0a: X.Y.Z Versions

Item	Version	Reference	Status
1	LLS v1.0.1	[3]	C.1

C.1: Optional IF LLS 0/1 “LLS v1.0” AND “LLS v1.0” is Not (Deprecated or Withdrawn), otherwise Mandatory IF LLS 0/1 “LLS v1.0” AND “LLS v1.0” is Deprecated or Withdrawn, otherwise Excluded.

2.2 Transports

Table 1: Transport Requirements

Item	Transport	Reference	Status
1	Service supported over BR/EDR	[1] 1.5	C.1
2	Service supported over LE	[1] 1.5	C.2, C.3

C.1: Excluded for this Service.

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

C.3: Mandatory for this Service.

2.3 Service requirements

Table 2: Service Requirements

Item	Capability	Reference	Status
1	Link Loss Service	[1] 2	M
2	Alert Level Characteristic	[1] 3.1	M
3	Alert Level Characteristic, Read	[1] 3.1.1	M
4	Alert Level Characteristic, Write	[1] 3.1.1	M
5	Disconnection Behavior	[1] 4.1	M
6	No longer used	N/A	N/A

2.4 GATT requirements

Table 3: GATT Requirements

Item	Capability	Reference	Status	Inter-Layer Dependency
1	GATT Server over LE	[1] 1.4	M	[2] GATT 1a/3
2	Write Characteristic Value	[1] 1.4	M	[2] GATT 4/14

Table 4: No longer used

3 References

- [1] Link Loss Service Specification, Version 1.0 or later
- [2] ICS Proforma for Generic Attribute Profile (GATT)
- [3] Link Loss Service Specification, Version 1.0.1

4 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
0	1.0.0	2011-06-26	Prepare for publication.
	1.0.1r0	2011-12-15	TSE 4634: Update Table 1 to reference GAP 0/3 to align with other GATT-based service
	1.0.1.0r00	2015-05-20	ESR08 update: Added Table 0 for Specification versions Added reference for LLS v1.0.1
	1.0.1.0r01	2015-06-04	Deleted Section 1.2 (Global Statement of Conformance) per current ICS template standards.
	1.0.1.0r02	2015-06-08	Reviewed by Alicia Courtney. Converted to current ICS document template.
	1.0.1.0r03	2015-06-10	Editorial review. Fixed broken references.
1	1.0.1.0	2015-07-14	Prepared for TCRL 2015-1 publication.
	1.0.1.0 edition 2r00	2018-11-26	Editorial changes only. Template updated. Revision History and contributors moved to the end of the document.
	1.0.1.0 edition 2	2020-01-07	Updated copyright page and confidentiality markings to support new Documentation Marking Requirements, performed minor formatting updates, and accepted all tracked changes to prepare for edition 2 publication.
	p2r00–r01	2022-10-20 – 2022-11-08	TSE 20349 (rating 3): Updated to align with current ICS conventions/template. Removed Support columns and added an Inter-Layer Dependency column where appropriate. In Table 0, updated table title, marked Item 2 as no longer used, and updated C.1. Added Table 0a. Updated references and C.1 in Table 1. In Table 2, marked Item 6 as no longer used and deleted C.1. In Table 3, updated the capability in Item 1 and references in Items 1 and 2 and added ILD column. Deleted Table 4 because no longer used. Updated the references list. Added a Publication Number column to the Revision History. Revised the document numbering convention, setting the last release publication of 1.0.1 as p1. Performed additional template-related formatting fixes. Replaced the Bluetooth logo in the footer and updated the copyright page to align with v2 of the DNMD.
2	p2	2023-02-07	Approved by BTI on 2022-12-28. Prepared for TCRL 2022-2 publication.
	p2ed2r00	2025-02-12	TSE 27091 (rating 1): Updated Table 0 and Table 0a titles, 0/1 status, and 1/2 status. Deleted Table 0 conditional C.1. Added Table 1 C.2 and C.3. Updated 3/1. Applied the current ICS template.
	p2 edition 2	2025-03-14	Approved by BTI on 2025-03-11. Prepared for edition 2 publication.

Publication Number	Revision Number	Date	Comments
	p3r00	2025-12-04 – 2026-01-02	TSE 28169 (rating 1): Updated the conditions in the transport table to make sure the layer is excluded when the design is an implementation of the Core-Controller Configuration by adding "OR CORE 40/1 "Core-Controller"" to an already excluded transport based on Core Configuration support.
3	p3	2026-02-17	Approved by BTI on 2026-01-21. Prepared for TCRL pkg102 publication.
	p4r00	2026-03-23	TSE 28660 (rating 1): Applied 2024 Annual Non-Core D&W decision to LLS v1.0. Changed status of 0/1 (LLS v1.0) and added two new conditions (C.1, C.2). Updated C.1 for 0a (LLS v1.0.1) to reflect LLS v1.0 D&W status.
4	p4	2026-06-23	Approved by BTI on 2026-05-28. Prepared for TCRL pkg104 publication.

Acknowledgments

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