

Electronic Shelf Label Service (ESLS)

Bluetooth® Implementation Conformance Statement (ICS) Proforma

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1 Identification of the implementation

1.1 Implementation Under Test (IUT) identification

Identification of the Implementation Under Test (IUT) is to be filled in to provide as much detail as possible regarding version numbers and configuration options.

An ICS contact person to respond to queries regarding information supplied in this ICS proforma is named in the Declaration of Compliance: Summary of Selected Specifications in Implementation.

1.2 Version

Table 0: X.Y Versions

Item	Version	Reference	Status
1	ESLS v1.0	[1] 2	M

Table 1: X.Y.Z Versions

Table number reserved but not yet in use.

1.3 Transports

Table 2: Transport Requirements

Item	Transport	Reference	Status
1	Service supported over BR/EDR	[1] 2.3	C.1
2	Service supported over LE	[1] 2.3	M

C.1: Excluded for this Service.

1.4 Service Requirements

1.4.1 Electronic Shelf Label Service

Table 3: Electronic Shelf Label Service

Item	Capability	Reference	Status
1	ESL Address characteristic	[1] 3.1	M
2	AP Sync Key Material characteristic	[1] 3.2	M
3	ESL Response Key Material characteristic	[1] 3.3	M
4	ESL Current Absolute Time characteristic	[1] 3.4	M
5	Display Information characteristic	[1] 3.5	C.1
6	Image Information characteristic	[1] 3.6	C.1
7	Sensor Information characteristic	[1] 3.7	C.2
8	LED Information characteristic	[1] 3.8	C.3
9	ESL Control Point characteristic	[1] 3.9	M
10	One display	[1] 2.7.2.1	O
11	More than one display	[1] 2.7.2.1	O
12	One LED	[1] 2.7.2.2	O
13	More than one LED	[1] 2.7.2.2	O
14	One sensor	[1] 2.7.2.3	O
15	More than one sensor	[1] 2.7.2.3	O
16	Stored images	[1] 2.7.2.1.1	C.1
17	Vendor-specific sensor type	[1] 3.7.1.1	O

Item	Capability	Reference	Status
18	Monochrome LED	[1] 3.8.1.2	O
19	sRGB LED	[1] 3.8.1.1	O

- C.1: Mandatory IF ESLS 3/10 “One display” OR ESLS 3/11 “More than one display”, otherwise Excluded.
- C.2: Mandatory IF ESLS 3/14 “One sensor” OR ESLS 3/15 “More than one sensor”, otherwise Excluded.
- C.3: Mandatory IF ESLS 3/12 “One LED” OR ESLS 3/13 “More than one LED”, otherwise Excluded.

Table 4: ESL Control Point Requirements

Prerequisite: ESLS 3/9 “ESL Control Point characteristic”

Item	Capability	Reference	Status
1	Ping	[1] 3.9.2.1	M
2	LED Control	[1] 3.9.2.10	M
3	LED Timed Control	[1] 3.9.2.11	M
4	Display Image	[1] 3.9.2.8	M
5	Display Timed Image	[1] 3.9.2.9	M
6	Unassociate from AP	[1] 3.9.2.2	M
7	Read Sensor Data	[1] 3.9.2.6	M
8	Refresh Display	[1] 3.9.2.7	M
9	Factory Reset	[1] 3.9.2.4	M
10	Vendor-specific Tag	[1] 3.9.2.12	M
11	Service Reset	[1] 3.9.2.3	M
12	Update Complete	[1] 3.9.2.5	M

1.5 GATT Requirements

Table 5: GATT Requirements

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Read Long Characteristic Values	[1] 2.5	M	[2] GATT 4/10
2	Write Characteristic Value	[1] 2.5	M	[2] GATT 4/14
3	Write without Response	[1] 2.5	M	[2] GATT 4/12
4	Notifications	[1] 2.5	M	[2] GATT 4/17
5	Write Characteristic Descriptors	[1] 2.5	M	[2] GATT 4/21

2 References

- [1] Electronic Shelf Label Service Specification, Version 1.0
- [2] ICS Proforma for Generic Attribute Profile (GATT)

3 Revision history and acknowledgments

Revision History

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0	p0	2023-04-04	Approved by BTI on 2023-03-15. ESLS v1.0 adopted by the BoD on 2023-03-28. Prepared for initial publication.

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