Weight Scale Profile (WSP)

Bluetooth® Implementation Conformance Statement (ICS) Proforma

- **Revision:** WSP.ICS.p9
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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 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	WSP v1.0	[1]	M

Table 0a: X.Y.Z Versions

Item	Version	Reference	Status
1	WSP v1.0.1	[10]	O

Table 1: No longer used

2.2   Roles

Table 2: Role Requirements

Item	Role	Reference	Status
1	Weight Scale	[1] 2.1	C.1
2	Collector	[1] 2.1	C.1

C.1:   Mandatory to support at least one.

2.3   Transports

Table 3: Transport Requirements

Item	Transport	Reference	Status
1	Profile supported over BR/EDR	[1] 2.5	C.1, C.3
2	Profile supported over LE	[1] 2.5	C.2, C.3

C.1:   Excluded for this Profile IF CORE 41/2 "LE Core Configuration" OR CORE 40/1 "Core-Controller".

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

C.3:   Mandatory to support at least one.

2.4 Weight Scale role

2.4.1 Services (Weight Scale)

Table 4: Service Requirements (Weight Scale)

Prerequisite: WSP 2/1 "Weight Scale"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Weight Scale Service	[1] 3	M	[2] WSS
2	Weight Scale Service UUID in AD Type field of Advertising Data	[1] 3.1.1	C.1	N/A
3	Local Name included in Advertising Data	[1] 3.1.2	C.2	N/A
4	Local Name included in Scan Response Data	[1] 3.1.2	C.2	N/A
5	Appearance included in Advertising Data	[1] 3.1.4	C.3	N/A
6	Appearance included in Scan Response Data	[1] 3.1.4	C.3	N/A
7	Service Data in Advertising Data Feature	[1] 3.1.5, 5.1.4	C.1	N/A
8	Device Information Service	[1] 3, 3.4	M	[6] DIS
9	Battery Service	[1] 3	O	[8] BAS
10	Body Composition Service	[1] 3, 3.3	O	[3] BCS
11	Current Time Service	[1] 3	O	[9] CTS
12	User Data Service	[1] 3, 3.5	C.4	[6] UDS
13	Low Duty Cycle Directed Advertising	[1] 5.1.2	C.1	N/A
14	LE Privacy Feature	[1] 3.1.2	O	N/A
15	Writable Device Name	[1] 3.1.3	O	N/A

C.1: Optional IF WSP 3/2 "Profile supported over LE", otherwise Excluded.

C.2: Optional to support one and only one IF WSP 3/2 "Profile supported over LE", otherwise Excluded.

C.3: Optional to support one and only one IF WSP 3/2 "Profile supported over LE", otherwise Excluded.

C.4: Mandatory IF WSP 5/2 "Multiple Users Supported", otherwise Optional.

2.4.2 Features (Weight Scale)

Table 5: Feature Requirements

Prerequisite: WSP 2/1 "Weight Scale"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Stored Measurements	[1] 3	O	[2] WSS 3/1
2	Multiple Users Supported	[1] 3	O	[2] WSS 3/2
2a	Multiple Users – Concurrent Access	[1] 3.3	C.1	N/A
3	Time Stamp Feature	[1] 3.2.1	O	N/A

C.1: Optional IF WSP 5/2 "Multiple Users Supported", otherwise Excluded.

2.4.3 GAP requirements (Weight Scale)

Table 6: GAP Requirements (Weight Scale)

Prerequisite: WSP 2/1 "Weight Scale"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Peripheral	[1] 2.4	M	[5] GAP 5/3
2	LE security mode 1	[1] 6.1	C.1	[5] GAP 25/1
3	General discoverable mode (BR/EDR)	[1] 7.1	C.2	[5] GAP 1/3
4	Limited discoverable mode (BR/EDR)	[1] 7.1	C.2	[5] GAP 1/2
5	Bondable mode (LE)	[1] 3.2, 3.3, 5.1	C.3	[5] GAP 24/2
6	Bonding procedure	[1] 3.2, 3.3, 5.1	C.5	[5] GAP 24/3
7	Bondable mode (BR/EDR)	[1] 3.2, 3.3, 5.1, 7.1	C.6	[5] GAP 1/7
8	Unauthenticated no MITM protection	[1] 6.1	C.4	[5] GAP 27b/3
9	Authenticated MITM protection	[1] 6.1	C.4	[5] GAP 27b/2

C.1: Mandatory IF WSP 3/2 "Profile supported over LE", otherwise not defined.

C.2: Mandatory to support at least one IF WSP 3/1 "Profile supported over BR/EDR", otherwise not defined.

C.3: Mandatory IF WSP 6/6 "Bonding procedure", otherwise Optional.

C.4: Mandatory to support at least one IF WSP 3/2 "Profile supported over LE". otherwise not defined.

C.5: Optional IF WSP 3/2 "Profile supported over LE", otherwise not defined.

C.6: Optional IF WSP 3/1 "Profile supported over BR/EDR", otherwise not defined.

Table 7: No longer used

2.4.4 DIS requirements (Weight Scale)

Table 8: DIS Requirements (Weight Scale)

Prerequisite: WSP 2/1 "Weight Scale"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Manufacturer Name String Characteristic	[1] 3.4	M	[7] DIS 2/2
2	Model Number String Characteristic	[1] 3.4	M	[7] DIS 2/3
3	System ID Characteristic	[1] 3.4	C.1	[7] DIS 2/8
4	Compliance with IEEE 11073-20601	[1] 3.4	O	N/A

C.1: Mandatory IF WSP 8/4 "Compliance with IEEE 11073-20601", otherwise Optional.

2.5   Collector role

2.5.1   Service Support (Collector)

Table 9: Service Support (Collector)

Prerequisite: WSP 2/2 "Collector"

Item	Capability	Reference	Status
1	Discover Weight Scale Service	[1] 4	M
2	Discover Device Information Service	[1] 4	O
3	Discover Battery Service	[1] 4	O
4	Discover Body Composition Service	[1] 4, 4.2	O
5	Discover Current Time Service	[1] 4	O
6	Discover User Data Service	[1] 4	M
7	Service Data in Advertising Data Feature	[1] 5.1.4, 5.2.2	O

2.5.2   Discover Services and Characteristics (Collector)

Table 10: Discover Weight Scale Service and Characteristics (Collector)

Prerequisite: WSP 2/2 "Collector"

Item	Capability	Reference	Status
1	Discover Weight Measurement characteristic	[1] 4.3.1, 4.4.2	M
2	Discover Weight Measurement characteristic – Client Configuration Characteristic Descriptor	[1] 4.3.1, 4.4.2	M
3	Discover Weight Scale Feature characteristic	[1] 4.3.1, 4.4.1	M
4	Discover Weight Scale Feature characteristic – Client Configuration Characteristic Descriptor	[10] 4.4.1	C.1

C.1:   Optional IF WSP 0/1 "WSP v1.0" AND NOT WSP 0a/1 "WSP v1.0.1", otherwise Mandatory.

Table 11: Discover Body Composition Service and Characteristics (Collector)

Prerequisite: WSP 2/2 "Collector" AND WSP 9/4 "Discover Body Composition Service"

Item	Capability	Reference	Status
1	Discover Body Composition Measurement characteristic	[1] 4.3.2, 4.5.2	M
2	Discover Body Composition Measurement characteristic – Client Configuration Characteristic Descriptor	[1] 4.3.2, 4.5.2	M
3	Discover Body Composition Feature characteristic	[1] 4.3.2, 4.5.1	M

Table 12: Discover User Data Service and Characteristics (Collector)

Prerequisite: WSP 2/2 "Collector"

Item	Capability	Reference	Status
1	Discover User Index characteristic	[1] 4.3.3, 4.6.1	M
2	Discover Database Change Increment characteristic	[1] 4.3.3, 4.6.2	C.1
3	Discover Database Change Increment characteristic – Client Configuration Characteristic Descriptor	[1] 4.3.3, 4.6.2	C.1
4	Discover User Data Control Point characteristic	[1] 4.3.3, 4.6.3	M
5	Discover User Data Control Point characteristic – Client Configuration Characteristic Descriptor	[1] 4.3.3, 4.6.3	M
6	Discover Other UDS Characteristics	[1] 4.3.3, 4.6.4	C.2

C.1:   Mandatory IF WSP 15/1 "Writing of UDS Characteristic values", otherwise Optional.

C.2:   Mandatory IF WSP 15/10 "Read UDS Characteristics" OR WSP 15/1 "Writing of UDS Characteristic values", otherwise Optional.

2.5.3   Features (Collector)

Table 13: Weight Scale Service Procedure Requirements (Collector)

Prerequisite: WSP 2/2 "Collector"

Item	Capability	Reference	Status
1	Read Weight Scale Feature characteristic	[1] 4.4.1	M
2	Read Weight Measurement characteristic	[1] 4.4.2	M
3	Configure Weight Measurement characteristic - Client Characteristic Configuration Descriptor	[1] 4.4.2	M
4	Receive Weight Measurement characteristic indications	[1] 4.4.2	M
5	Configure characteristic for indications to determine supported features	[10] 4.4.1	C.1

C.1:   Optional IF WSP 0/1 "WSP v1.0" AND NOT WSP 0a/1 "WSP v1.0.1", otherwise Mandatory.

Table 13a: Determining Supported Features (Configure Characteristic for Indications)

Prerequisite: WSP 13/5 "Configure characteristic for indications to determine supported features"

Item	Capability	Reference	Status
1	Configure and receive Weight Scale Feature characteristic indications	[10] 4.4.1	C.1
2	Read Weight Scale Feature characteristic on reconnection	[10] 4.4.1	C.1

C.1:   Mandatory to support at least one.

Table 14: Body Composition Service Procedure Requirements (Collector)

Prerequisite: WSP 2/2 "Collector" AND WSP 9/4 "Discover Body Composition Service"

Item	Capability	Reference	Status
1	Read Body Composition Feature characteristic	[1] 4.5.1	M
2	Read Body Composition Measurement characteristic	[1] 4.5.2	M
3	Configure Body Composition Measurement characteristic - Client Characteristic Configuration Descriptor	[1] 4.5.2	M
4	Receive Body Composition Measurement characteristic indications	[1] 4.5.2	M
5	Receive Continuation Packet indications	[1] 4.5.2	M

Table 15: User Data Service Procedure Requirements (Collector)

Prerequisite: WSP 2/2 "Collector"

Item	Capability	Reference	Status
1	Writing of UDS Characteristic values	[1] 4.3.3, 4.6, 4.6.4	O
2	Configure Database Change Increment - Client Characteristic Configuration Descriptor	[1] 4.6.2	C.1
3	Receive Database Change Increment notifications	[1] 4.6.2	C.1
4	Read Database Change Increment characteristic	[1] 4.6.2	C.1
5	Write Database Change Increment characteristic	[1] 4.6.2	C.1
6	User Data Synchronization Feature	[1] 4.6.2	C.2
7	User Control Point	[1] 4.6.3	M
8	User Index	[1] 4.6.1	M
9	Caching of Consent Code	[1] 4.6.3.2.1	O
10	Read UDS Characteristics	[1] 4.6.4	O
11	Read Long UDS Characteristics	[1] 4.6.4	O
12	Write Long UDS Characteristics	[1] 4.6.4	O

C.1:   Mandatory IF WSP 15/6 "User Data Synchronization Feature", otherwise Optional.

C.2:   Mandatory IF WSP 15/1 "Writing of UDS Characteristic values", otherwise Optional.

Table 16: Battery Service Procedure Requirements (Collector)

Prerequisite: WSP 2/2 "Collector" AND WSP 9/3 "Discover Battery Service"

Item	Capability	Reference	Status
1	Read Battery Level characteristic	[1] 4.8	O
2	Receive Battery Level characteristic notifications	[1] 4.8	O

Table 17: Current Time Service Procedure Requirements (Collector)

Prerequisite: WSP 2/2 "Collector" AND WSP 9/5 "Discover Current Time Service"

Item	Capability	Reference	Status
1	Read Current Time characteristic	[1] 4.9	O
2	Write Current Time characteristic	[1] 4.9	O
3	Configure Current Time Characteristic - Client Characteristic Configuration Descriptor	[1] 4.9	O
4	Receive Current Time characteristic notifications	[1] 4.9	O

2.5.4   GATT requirements (Collector)

Table 18: GATT Requirements (Collector)

Prerequisite: WSP 2/2 "Collector"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	No longer used	N/A	N/A	N/A
2	GATT Client over BR/EDR	[1] 4.2	C.1	[4] GATT 1a/2
3	GATT Client over LE	[1] 4.2	C.2	[4] GATT 1a/1
4	Discover All Primary Services	[1] 4.2	C.3	[4] GATT 3/2
5	Discover Primary Service by Service UUID	[1] 4.2	C.3	[4] GATT 3/3
6	Discover All Characteristics of a Service	[1] 4.3	C.4	[4] GATT 3/5
7	Discover Characteristics by UUID	[1] 4.3	C.4	[4] GATT 3/6
8	Discover All Characteristic Descriptors	[1] 4.3	M	[4] GATT 3/7
9	Read Characteristic Value	[1] 4.1	M	[4] GATT 3/8
10	Single Notification	[1] 4.8	C.5	[4] GATT 3/17
11	Write Characteristic Value	[1] 4.1	M	[4] GATT 3/14
12	Read Characteristic Descriptor	[1] 4.1, 4.4.2, 4.5.2, 4.6.3, 4.8, 4.9	M	[4] GATT 3/19
13	Write Characteristic Descriptor	[1] 4.1, 4.4.2, 4.5.2, 4.6.3, 4.8, 4.9	M	[4] GATT 3/21
14	Find Included Services	[1] 4.1, 4.2	C.6	[4] GATT 3/4
15	Indication	[1] 4.4.2, 4.5.2, 4.6.3	M	[4] GATT 3/18
16	Read Long Characteristic Value	[1] 4.1	C.7	[4] GATT 3/10
17	Write Long Characteristic Value	[1] 4.1	C.8	[4] GATT 3/15

C.1:   Mandatory IF WSP 3/1 "Profile supported over BR/EDR", otherwise Optional.

C.2:   Mandatory IF WSP 3/2 "Profile supported over LE", otherwise Optional.

C.3:   Mandatory to support at least one.

C.4:   Mandatory to support at least one.

C.5:   Mandatory IF WSP 16/2 "Receive Battery Level characteristic notifications" OR WSP 17/4 "Receive Current Time characteristic notifications" OR WSP 15/3 "Receive Database Change Increment notifications", otherwise Optional.

C.6:   Mandatory IF WSP 9/4 "Discover Body Composition Service", otherwise Optional.

C.7:   Mandatory IF WSP 15/11 "Read Long UDS Characteristics", otherwise Optional.

C.8:   Mandatory IF WSP 15/12 "Write Long UDS Characteristics", otherwise Optional.

2.5.5   GAP requirements (Collector)

Table 19: GAP Requirements (Collector)

Prerequisite: WSP 2/2 "Collector"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Central	[1] 2.4	M	[5] GAP 5/4
2	LE security mode 1	[1] 6.2	C.1	[5] GAP 35/1
3	Initiation of general inquiry	[1] 7.2	C.2	[5] GAP 3/1
4	Bondable mode (LE)	[1] 6.2	C.1	[5] GAP 34/2
5	Bonding procedure	[1] 6.2, 7.1	C.1	[5] GAP 34/3
6	Bondable mode (BR/EDR)	[1] 6.2, 7.1	C.2	[5] GAP 1/7
7	Unauthenticated no MITM protection	[1] 6.2	C.1	[5] GAP 37b/3
8	Authenticated MITM protection	[1] 6.2	C.1	[5] GAP 37b/2

C.1:   Mandatory IF WSP 3/2 "Profile supported over LE", otherwise not defined.

C.2:   Mandatory IF WSP 3/1 "Profile supported over BR/EDR", otherwise not defined.

Table 20: No longer used

3   References

[1]   Weight Scale Profile Specification, Version 1.0 or later

[2]   ICS Proforma for Weight Scale Service (WSS)

[3]   ICS Proforma for Body Composition Service (BCS)

[4]   ICS Proforma for Generic Attribute Profile (GATT)

[5]   ICS Proforma for Generic Access Profile (GAP)

[6]   ICS Proforma for User Data Service (UDS)

[7]   ICS Proforma for Device Information Service (DIS)

[8]   ICS Proforma for Battery Service (BAS)

[9]   ICS Proforma for Current Time Service (CTS)

[10]   Weight Scale Profile Specification, Version 1.0.1

4 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
0	1.0.0	2014-10-21	Publication
	1.0.1r00	2015-05-10	TSE 6324: Corrected status of item 15/2 from M to C.1.
	1.0.1r01	2015-06-04	Deleted Section 1.2 (Global Statement of Conformance) per current ICS template standards.
	1.0.1r02	2015-06-07	Reviewed by Alicia Courtney. Converted to current document template.
1	1.0.1	2015-07-14	Prepared for TCRL 2015-1 publication
	1.0.2r00	2015-10-01	TSE 6482: Corrected C.5 conditional in Table 18, Section 1.6.4.
2	1.0.2	2015-12-22	Prepared for TCRL 2015-2 publication.
	1.0.3r00	2017-04-26	TSE 8394: Updated Table 5: Feature Requirements with item 2 reference update, row added for item 2a, and added C.1 conditional.
3	1.0.3	2017-06-26	Approved by BTI. Prepared for TCRL 2017-1 publication.
	p4r00	2021-08-11	TSE 17321 (rating 2): Updated rules for Table 4, C.2 and C.3; added item 4 to Table 8; added ILD entry to Table 5, item 2; corrected references in C.2 of Table 12 and C.7 and C.8 of Table 18; corrected reference to nonexistent GAP item in item 4 of Table 19. Template-related and consistency checker editorials. Updated copyright page to align with v2 of the DNMD.
4	p4	2022-01-25	Approved by BTI on 2022-01-06. Prepared for TCRL 2021-2 publication.
	p5r00–r01	2022-03-16 – 2022-05-05	TSE 18727 (rating 1): Editorials to align the document with the latest ICS template in anticipation of a future .Z release.
5	p5	2022-06-28	Approved by BTI on 2022-05-31. Prepared for TCRL 2022-1 publication.
	p6r00	2023-10-10	TSE 23178 (rating 2): Resolved GAP and SM inter-layer dependencies. Updated C.1 for Tables 2 and 3. Updated C.2 and C.3 for Table 4. In Table 6, added Items 8 and 9, updated C.2, and added C.4. Marked Tables 7 and 20 as no longer used. In Table 9, updated the Capability value for Items 1–6. Updated the prerequisite for Tables 11, 14, 16, and 17. In Table 18, marked Item 1 as no longer used, updated the Capability and ILD values for Items 2 and 3, and updated C.3, C.4, and C.6. Added Items 7 and 8 to Table 19. Updated the references. Made editorial edits to align the document with the latest ICS template, including updates to section and table titles and spacing. Deleted draft revision history comments prior to p0.

Publication Number	Revision Number	Date	Comments
6	p6	2024-07-01	Approved by BTI on 2024-04-21. Prepared for TCRL 2024-1 publication.
	p7r00–r01	2024-07-30 – 2024-08-22	TSE 17246 (rating 4): Per E17172, added Tables 0a and 13a. In Table 10, added Item 10/4 and conditional C.1. In Table 13, added Item 13/5 and conditional C.1. Updated the references list. TSE 25595 (rating 1): Per E15813, E17172, and E18759, added new version table (Table 0a) for WSP v1.0.1. Updated the references list and the acknowledgments.
7	p7	2024-10-08	Approved by BTI on 2024-09-11. WSP v1.0.1 adopted by the BoD on 2024-10-01. Prepared for TCRL 2024-2-addition publication.
	p7ed2r00–r01	2025-07-07 – 2025-07-15	TSE 27381 (rating 1): Updated the Status for WSP 3/1 and WSP 3/2, added conditions C.1 and C.2, and renumbered the previous C.1 as C.3.
	p7 edition 2	2025-08-05	Approved by BTI on 2025-08-05. Prepared for edition 2 publication.
	p8r00	2025-08-14	TSE 27567 (rating 1): Updated the ILD column for Items 6/1 and 19/1 to delete references to GAP Table 38.
8	p8	2025-11-04	Approved by BTI on 2025-10-02. Prepared for TCRL pkg101 publication.
	p9r00–r01	2025-12-07 – 2026-01-09	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.
9	p9	2026-02-17	Approved by BTI on 2026-01-21. Prepared for TCRL pkg102 publication.