Cookware Profile (CWP)

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

- **Revision:** CWP.ICS.p1
- **Revision Date:** 2026-02-17
- **Prepared By:** Automation Working Group
- **Published during TCRL:** TCRL.pkg102

Contents

1 General principles 4
1.1 Implementation Under Test (IUT) identification 4
1.2 Enforcement of inter-layer dependencies 4
2 ICS declarations 5
2.1 Versions 5
2.2 Transports 5
2.3 Roles 5
2.4 Cookware Device role 6
2.4.1 Cookware Service requirements 6
2.4.2 Device Information Service requirements 6
2.4.3 GAP requirements 6
2.5 Cookware Client role 7
2.5.1 Service dependencies 7
2.5.2 Cookware Service 7
2.5.3 Device Information Service 8
2.5.4 Battery Service 8
2.5.5 GATT requirements 8
2.5.6 GAP requirements 9
3 References 10
4 Revision history and acknowledgments 11

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 0a: X.Y Versions (Cookware Device)

Prerequisite: CWP 3/1 "Cookware Device"

Item	Version	Reference	Status
1	CWP v1.0	[1]	M

Table 1a: X.Y.Z Versions (Cookware Device)

Table number reserved but not yet in use.

Table 0b: X.Y Versions (Cookware Client)

Prerequisite: CWP 3/2 "Cookware Client"

Item	Version	Reference	Status
1	CWP v1.0	[1]	M

Table 1b: X.Y.Z Versions (Cookware Client)

Table number reserved but not yet in use.

2.2 Transports

Table 2: Transport Requirements

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

2.3 Roles

Table 3: Role Requirements

Item	Role	Reference	Status
1	Cookware Device	[1] 2.1, 3	C.1
2	Cookware Client	[1] 2.1, 4	C.1

C.1: Mandatory to support at least one.

2.4 Cookware Device role

Table 4: Services Included in Cookware Device

Prerequisite: CWP 3/1 "Cookware Device"

Item	Service	Reference	Status	Inter-Layer Dependency
1	Cookware Service	[1] 3	M	[2] CWS
2	Device Information Service	[1] 3	M	[3] DIS
3	Battery Service	[1] 3	O	[4] BAS

2.4.1 Cookware Service requirements

Table 5: Cookware Service Requirements

Prerequisite: CWP 4/1 "Cookware Service"

Item	Capability	Reference	Status
1	Service UUID AD Type	[1] 3.1.1	O
2	Local Name AD Type	[1] 3.1.1	O
3	Appearance AD Type	[1] 3.1.1	O
4	Service Data AD Type	[1] 3.1.1	O

2.4.2 Device Information Service requirements

Table 6: Device Information Service Requirements

Prerequisite: CWP 4/2 "Device Information Service"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Manufacturer Name String Characteristic	[1] 3.2	M	[3] DIS 2/2
2	Model Number String Characteristic	[1] 3.2	M	[3] DIS 2/3
3	Serial Number String Characteristic	[1] 3.2	M	[3] DIS 2/4

2.4.3 GAP requirements

Table 7: GAP Requirements

Prerequisite: CWP 3/1 "Cookware Device"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Peripheral	[1] 2.5	C.1	[6] GAP 5/3
2	Bondable mode (LE)	[1] 6.1	C.1	[6] GAP 24/2
3	Bonding procedure	[1] 6.1	C.1	[6] GAP 24/3
4	Bondable mode (BR/EDR)	[1] 6.3	C.2	[6] GAP 1/7
5	Initiation of general bonding	[1] 6.3	C.2	[6] GAP 3/5

Item	Capability	Reference	Status	Inter-Layer Dependency
6	LE security mode 1	[1] 6.1	C.1	[6] GAP 25/1
7	Unauthenticated Pairing (LE security mode 1 level 2)	[1] 6.1	C.3	[6] GAP 25/8
8	Authenticated Pairing (LE security mode 1 level 3)	[1] 6.1	C.3	[6] GAP 25/7
9	LE security mode 1 level 4	[1] 6.3	C.3	[6] GAP 25/9
10	Encrypted Data Key Material	[1] 3.1.2	C.1	[6] GAP 27/10

C.1: Mandatory IF CWP 2/2 “Profile supported over LE”, otherwise not defined.

C.2: Mandatory IF CWP 2/1 “Profile supported over BR/EDR”, otherwise not defined.

C.3: Mandatory to support at least one IF CWP 2/2 “Profile supported over LE”, otherwise not defined.

2.5 Cookware Client role

Table 8: Features

Prerequisite: CWP 3/2 “Cookware Client”

Item	Features	Reference	Status
1	CWC-executed Control Loop	[1] 4.4	C.1
2	CWD-executed Control Loop	[1] 4.4	C.1

C.1: Mandatory to support at least one.

2.5.1 Service dependencies

Table 9: Service Dependencies

Prerequisite: CWP 3/2 “Cookware Client”

Item	Service	Reference	Status
1	Cookware Service	[1] 4	M
2	Device Information Service	[1] 4	O
3	Battery Service	[1] 4	O

2.5.2 Cookware Service

Table 10: Cookware Service Characteristics Support

Prerequisite: CWP 3/2 “Cookware Client”

Item	Characteristic	Reference	Status
1	Cookware Description characteristic	[1] 4	M
2	Recipe Parameters characteristic	[1] 4	C.1
3	Recipe Control characteristic	[1] 4	C.1
4	Cooking Step Status characteristic	[1] 4	C.1
5	Cooking Zone Capabilities characteristic	[1] 4	C.1
6	Cooking Zone Desired Cooking Conditions characteristic	[1] 4	C.1
7	Cooking Zone Actual Cooking Conditions characteristic	[1] 4	C.1

Item	Characteristic	Reference	Status
8	Cookware Sensor Data characteristic	[1] 4	M
9	Cooking Sensor Info descriptor	[1] 4	M
10	Cooking Trigger Settings descriptor	[1] 4	O
11	Valid Range descriptor	[1] 4	O
12	Cookware Sensor Aggregate characteristic	[1] 4	O

C.1: Mandatory IF CWP 8/1 “CWC-executed Control Loop”, otherwise Excluded.

Table 11: Recipe Control Opcode Support

Prerequisite: CWP 10/3 “Recipe Control characteristic”

Item	Features	Reference	Status
1	Read	[1] 4.4.2.2	O
2	Start	[1] 4.4.2.2	M
3	Stop	[1] 4.4.2.2	M
4	Delete	[1] 4.4.2.2	M

2.5.3 Device Information Service

Table 12: Device Information Service Characteristics Support

Prerequisite: CWP 9/2 “Device Information Service”

Item	Characteristic	Reference	Status
1	Manufacturer Name String characteristic	[1] 4	M
2	Model Number String characteristic	[1] 4	M
3	Serial Number String characteristic	[1] 4	M

2.5.4 Battery Service

Table 13: Battery Service Characteristics Support

Prerequisite: CWP 9/3 “Battery Service”

Item	Characteristic	Reference	Status
1	Battery Level characteristic	[1] 4	O

2.5.5 GATT requirements

Table 14: GATT Requirements

Prerequisite: CWP 3/2 “Cookware Client”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	GATT Client over BR/EDR	[1] 4.1	C.1	[5] GATT 1a/2

Item	Capability	Reference	Status	Inter-Layer Dependency
2	GATT Client over LE	[1] 4.1	C.2	[5] GATT 1a/1
3	Discover All Primary Services	[1] 4.1	C.3	[5] GATT 3/2
4	Discover Primary Service by Service UUID	[1] 4.1	C.3	[5] GATT 3/3
5	Discover All Characteristics of a Service	[1] 4.1	C.4	[5] GATT 3/5
6	Discover Characteristics by UUID	[1] 4.1	C.4	[5] GATT 3/6
7	Discover All Characteristic Descriptors	[1] 4.1	M	[5] GATT 3/7
8	Read Characteristic Value	[1] 4.1	M	[5] GATT 3/8
9	Write Characteristic Value	[1] 4.1	M	[5] GATT 3/14
10	Read Characteristic Descriptor	[1] 4.1	M	[5] GATT 3/19
11	Write Characteristic Descriptor	[1] 4.1	M	[5] GATT 3/21
12	Single Notification	[1] 4.1	M	[5] GATT 3/17
13	Indication	[1] 4.1	M	[5] GATT 3/18

C.1: Mandatory IF CWP 2/1 “Profile supported over BR/EDR”, otherwise not defined.

C.2: Mandatory IF CWP 2/2 “Profile supported over LE”, otherwise not defined.

C.3: Mandatory to support at least one IF CWP 2/2 “Profile supported over LE”, otherwise not defined.

C.4: Mandatory to support at least one.

2.5.6 GAP requirements

Table 15: GAP Requirements

Prerequisite: CWP 3/2 “Cookware Client”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Central	[1] 2.4	C.1	[6] GAP 5/4
2	Bondable mode (LE)	[1] 6.2	C.1	[6] GAP 24/2
3	Bonding procedure	[1] 6.2	C.1	[6] GAP 24/3
4	Bondable mode (BR/EDR)	[1] 6.3	C.2	[6] GAP 1/7
5	Initiation of general bonding	[1] 6.3	C.2	[6] GAP 3/5
6	LE security mode 1	[1] 6.2	C.1	[6] GAP 35/1
7	Unauthenticated Pairing (LE security mode 1 level 2)	[1] 6.2	C.3	[6] GAP 35/8
8	Authenticated Pairing (LE security mode 1 level 3)	[1] 6.2	C.3	[6] GAP 35/7
9	LE security mode 1 level 4	[1] 6.2	C.3	[6] GAP 35/9

C.1: Mandatory IF CWP 2/2 “Profile supported over LE”, otherwise not defined.

C.2: Mandatory IF CWP 2/1 “Profile supported over BR/EDR”, otherwise not defined.

C.3: Mandatory to support at least one IF CWP 2/2 “Profile supported over LE”, otherwise not defined.

3 References

[1] Cookware Profile Specification, Version 1.0

[2] ICS Proforma for Cookware Service (CWS)

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

[4] ICS Proforma for Battery Service (BAS)

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

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

4 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
0	p0	2025-11-04	Approved by BTI on 2025-10-02. CWP v1.0 adopted by the BoD on 2025-11-03. Prepared for initial publication.
	p1r00	2025-12-04 – 2025-12-12	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.
1	p1	2026-02-17	Approved by BTI on 2026-01-21. Prepared for TCRL pkg102 publication.

Acknowledgments

Name	Company
Charlie Lenahan	Bluetooth SIG, Inc.