

# Coordinated Set Identification Profile (CSIP)

## **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 Roles

**Table 1: Role Requirements**

Item	Role	Reference	Status
1	Set Member	[1] 2.1	C.1
2	Set Coordinator	[1] 2.1	C.1

C.1: Mandatory to support at least one.

### 2.2 Transports

**Table 2: 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.

### 2.3 Set Member role

**Table 3: Set Member, X.Y Versions**

*Prerequisite: CSIP 1/1 “Set Member”*

Item	Version	Reference	Status
1	CSIP v1.0	[1]	C.1, C.2
2	CSIP v1.1	[5]	C.1

C.1: Mandatory to support one and only one.

C.2: Can only be supported with an active X.Y.Z version after Deprecation or Withdrawal. Deprecated 2025-02-01. Withdrawn 2027-02-01.

**Table 4: Set Member, X.Y.Z Versions**

*Prerequisite: CSIP 1/1 “Set Member”*

Item	Version	Reference	Status
1	No longer used	N/A	N/A
2	CSIP v1.0.1	[1]	C.1

C.1: Mandatory IF CSIP 3/1 “CSIP v1.0”, otherwise Excluded.



### 2.3.1 Services (Set Member)

**Table 5: Services Requirements**

*Prerequisite: CSIP 1/1 “Set Member”*

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Coordinated Set Identification Service	[1] 3	M	[4] CSIS
2	RSI AD Type over LE	[1] 3.1.1	C.1	N/A
3	RSI AD Type over BR/EDR	[1] 3.1.1	C.2	N/A
4	Encrypted SIRK	[1] 4.6.1 [5] 4.4.1	C.3	[4] CSIS 2/5
5	Plaintext SIRK	[1] 4.6.1 [5] 4.4.1	C.3	[4] CSIS 2/6
6	OOB SIRK Only	[1] 4.6.1 [5] 4.4.1	C.3	[4] CSIS 2/7
7	Coordinated Set Size Characteristic	[5] 3.1.3	O	[4] CSIS 2/2
8	Notifiable Coordinated Set Size Characteristic	[5] 3.1.3	C.7	[4] CSIS 2a/2
9	Coordinated Set Name Characteristic	[5] 3.1.5	C.4	[4] CSIS 2/8
10	Notifiable Coordinated Set Name Characteristic	[5] 3.1.5	C.8	[4] CSIS 2a/3
11	Coordinated Set Identification Service Data AD Type over LE	[5] 3.1.4	C.5	N/A
12	Coordinated Set Identification Service Data AD Type over BR/EDR	[5] 3.1.4	C.6	N/A

- C.1: Mandatory IF CSIP 2/2 “Profile supported over LE”, otherwise Excluded.  
 C.2: Mandatory IF CSIP 2/1 “Profile supported over BR/EDR”, otherwise Excluded.  
 C.3: Mandatory to support at least one.  
 C.4: Excluded IF CSIP 3/1 “CSIP v1.0”, otherwise Optional.  
 C.5: Optional IF CSIP 5/9 “Coordinated Set Name Characteristic” AND CSIP 2/2 “Profile supported over LE”, otherwise Excluded.  
 C.6: Optional IF CSIP 5/9 “Coordinated Set Name Characteristic” AND CSIP 2/1 “Profile supported over BR/EDR”, otherwise Excluded.  
 C.7: Optional IF CSIP 5/7 “Coordinated Set Size Characteristic”, otherwise not defined.  
 C.8: Optional IF CSIP 5/9 “Coordinated Set Name Characteristic”, otherwise not defined.

### 2.3.2 GAP requirements

**Table 6: GAP Requirements (Set Member)**

*Prerequisite: CSIP 1/1 “Set Member”*

Item	Capability	Reference	Status	Inter-Layer Dependency
1	LE security mode 1	[1] 6.1	C.1	[3] GAP 25/1
2	Peripheral	[1] 2.4.1	C.1	[3] GAP 5/3
3	Bondable mode (LE)	[1] 7.1	C.7	[3] GAP 24/2



Item	Capability	Reference	Status	Inter-Layer Dependency
4	Privacy feature	[1] 6.1	C.7	[3] GAP 26/1
5	Bondable mode (BR/EDR)	[1] 7.1	C.8	[3] GAP 1/7
6	Unauthenticated Pairing (LE security mode 1 level 2) with LE Secure Connections Pairing only	[1] 6	C.5	[3] GAP 25/11
7	Authenticated Pairing (LE security mode 1 level 3) with LE Secure Connections Pairing only	[1] 6	C.5	[3] GAP 25/12
8	LE security mode 1 level 4	[1] 6	C.5	[3] GAP 25/9
9	Minimum 128 Bit entropy key (LE)	[1] 6.1	C.6	[3] GAP 25/13
10	Derivation of LE LTK from BR/EDR Link Key	[1] 6.1	C.9	[3] GAP 43/2b
11	Security mode 4, level 2	[1] 6.2	C.2	[3] GAP 2/7c
12	128-bit encryption key size capable (BR/EDR)	[1] 6.2	C.2	[3] GAP 2/13
13	Derivation of BR/EDR Link Key from LE LTK	[1] 6.2	C.10	[3] GAP 43/2a
14	BR/EDR Secure Connections	[1] 6.2	C.10	N/A
15	LE Secure Connections (Peripheral)	[1] 6.1	C.9	[3] GAP 27b/5
16	Out of Band (Peripheral)	[1] 6.1	C.9	[3] GAP 27b/9
17	Out-of-Band (BR/EDR)	[1] 6.2	C.10	[3] GAP 2/14

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

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

C.3–C.4: No longer used.

C.5: Mandatory to support at least one IF CSIP 2/2 “Profile supported over LE”, otherwise not defined.

C.6: Mandatory IF CSIP 6/6 “Unauthenticated Pairing (LE security mode 1 level 2) with LE Secure Connections Pairing only” OR CSIP 6/7 “Authenticated Pairing (LE security mode 1 level 3) with LE Secure Connections Pairing only”, otherwise not defined.

C.7: Optional IF CSIP 2/2 “Profile supported over LE”, otherwise not defined.

C.8: Optional IF CSIP 2/1 “Profile supported over BR/EDR”, otherwise not defined.

C.9: Mandatory to support at least one IF CSIP 2/2 “Profile supported over LE”, otherwise not defined.

C.10: Mandatory to support at least one IF CSIP 2/1 “Profile supported over BR/EDR”, otherwise not defined.

## 2.4 Set Coordinator role

**Table 8: Set Coordinator, X.Y Versions**

*Prerequisite: CSIP 1/2 “Set Coordinator”*

Item	Version	Reference	Status
1	CSIP v1.0	[1]	C.1, C.2
2	CSIP v1.1	[5]	C.1

C.1: Mandatory to support one and only one.

C.2: Can only be supported with an active X.Y.Z version after Deprecation or Withdrawal. Deprecated 2025-02-01. Withdrawn 2027-02-01.



**Table 9: Set Coordinator, X.Y.Z Versions***Prerequisite: CSIP 1/2 “Set Coordinator”*

Item	Version	Reference	Status
1	No longer used	N/A	N/A
2	CSIP v1.0.1	[1]	C.1

C.1: Mandatory IF CSIP 8/1 “CSIP v1.0”, otherwise Excluded.

**2.4.1 Services Support (Set Coordinator)****Table 10: Service Support***Prerequisite: CSIP 1/2 “Set Coordinator”*

Item	Feature	Reference	Status
1	Discover Coordinated Set Identification Service	[1] 4.2	M

**Table 11: Characteristic Support Requirements***Prerequisite: CSIP 10/1 “Discover Coordinated Set Identification Service”*

Item	Capability	Reference	Status
1	Set Identity Resolving Key Characteristic	[1] 4.3	M
2	Coordinated Set Size Characteristic	[1] 4.3	M
3	Set Member Lock Characteristic	[1] 4.3	M
4	Set Member Rank Characteristic	[1] 4.3	M
5	Coordinated Set Name Characteristic	[5] 4.3.3	C.1

C.1: Excluded IF CSIP 8/1 “CSIP v1.0”, otherwise Optional.

**Table 12: Procedure Support Requirements***Prerequisite: CSIP 10/1 “Discover Coordinated Set Identification Service”*

Item	Capability	Reference	Status
1	Coordinated Set Discovery	[1] 4.6.1 [5] 4.4.1	M
2	Set Members Discovery	[1] 4.6.2 [5] 4.4.2	M
3	Lock Request	[1] 4.6.3 [5] 4.4.3	M
4	Lock Release	[1] 4.6.4 [5] 4.4.4	M
5	Ordered Access	[1] 4.6.5 [5] 4.4.5	M



## 2.4.2 GATT requirements

**Table 13: Set Coordinator GATT Requirements**

*Prerequisite: CSIP 1/2 “Set Coordinator”*

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

C.1: Mandatory to support at least one.

C.2: Mandatory to support at least one.

C.3: Mandatory IF CSIP 13/9 “Single Notification”, otherwise not defined.

C.4: Mandatory IF CSIP 2/2 “Profile supported over LE”, otherwise not defined.

C.5: Mandatory IF CSIP 2/1 “Profile supported over BR/EDR”, otherwise not defined.

C.6: Mandatory IF CSIP 11/5 “Coordinated Set Name Characteristic”, otherwise not defined.

## 2.4.3 GAP requirements

**Table 14: GAP Requirements (Set Coordinator)**

*Prerequisite: CSIP 1/2 “Set Coordinator”*

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Bondable mode (BR/EDR)	[1] 7.1	C.1	[3] GAP 1/7
2	Central	[1] 2.4.1	C.2	[3] GAP 5/4
3	LE security mode 1	[1] 6.2	C.2	[3] GAP 35/1
4	Bondable mode (LE)	[1] 6.2	C.4	[3] GAP 34/2
5	Bonding procedure	[1] 6.2	C.4	[3] GAP 34/3
6	Unauthenticated Pairing (LE security mode 1 level 2) with LE Secure Connections Pairing only	[1] 6	C.4	[3] GAP 35/11



Item	Capability	Reference	Status	Inter-Layer Dependency
7	Authenticated Pairing (LE security mode 1 level 3) with LE Secure Connections Pairing only	[1] 6	C.4	[3] GAP 35/12
8	LE security mode 1 level 4	[1] 6	C.4	[3] GAP 35/9
9	Minimum 128 Bit entropy key (LE)	[1] 6.1	C.7	[3] GAP 35/13
10	Derivation of LE LTK from BR/EDR Link Key	[1] 6.1	C.8	[3] GAP 41/2b
11	Security mode 4, level 2	[1] 6.2	C.3	[3] GAP 2/7c
12	128-bit encryption key size capable (BR/EDR)	[1] 6.2	C.3	[3] GAP 2/13
13	Derivation of BR/EDR Link Key from LE LTK	[1] 6.2	C.9	[3] GAP 41/2a
14	BR/EDR Secure Connections	[1] 6.2	C.9	N/A
15	LE Secure Connections (Central)	[1] 6.1	C.8	[3] GAP 37b/5
16	Out of Band (Central)	[1] 6.1	C.8	[3] GAP 37b/9
17	Out-of-Band (BR/EDR)	[1] 6.2	C.9	[3] GAP 2/14

- C.1: Optional IF CSIP 2/1 “Profile supported over BR/EDR”, otherwise not defined.
- C.2: Mandatory IF CSIP 2/2 “Profile supported over LE”, otherwise not defined.
- C.3: Mandatory IF CSIP 2/1 “Profile supported over BR/EDR”, otherwise not defined.
- C.4: Optional IF CSIP 2/2 “Profile supported over LE”, otherwise not defined.
- C.5–C.6: No longer used.
- C.7: Mandatory IF CSIP 14/6 “Unauthenticated Pairing (LE security mode 1 level 2) with LE Secure Connections Pairing only” OR CSIP 14/7 “Authenticated Pairing (LE security mode 1 level 3) with LE Secure Connections Pairing only”, otherwise not defined.
- C.8: Mandatory to support at least one IF CSIP 2/2 “Profile supported over LE”, otherwise not defined.
- C.9: Mandatory to support at least one IF CSIP 2/1 “Profile supported over BR/EDR”, otherwise not defined.

## 3 References

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- [1] Coordinated Set Identification Profile Specification, Version 1.0 or later
- [2] ICS Proforma for Generic Attribute Profile (GATT)
- [3] ICS Proforma for Generic Access Profile (GAP)
- [4] ICS Proforma for Coordinated Set Identification Service (CSIS)
- [5] Coordinated Set Identification Profile Specification, Version 1.1 or later

## 4 Revision history and acknowledgments

### Revision History

Publication Number	Revision Number	Date	Comments
0	p0	2021-03-30	Approved by BTI on 2021-02-25. CSIP v1.0 adopted by the BoD on 2021-03-23. Prepared for publication.
	p1r00–r02	2021-09-16 – 2021-09-22	TSE 14792 (rating 4): Added ICS items for Expedited Erratum 17455 to Tables 4 and 9 and updated references. Editorials to address BTI comments and consistency checker findings.
1	p1	2021-10-12	Approved by BTI on 2021-09-28. Expedited Erratum 17455 adopted by the BoD on 2021-10-05. Prepared for publication.
	p2r00–r05	2022-02-15 – 2022-06-10	TSE 18159 (rating 2): Updated C.1 in Table 1. Performed template-related formatting fixes. Updated copyright page to align with v2 of the DNMD. TSE 18996 (rating 1): Modified Versions tables globally to account for v1.0.1 and associated deprecation and withdrawal. Affected tables are: Tables 3, 4, 8, and 9. Updated CSIP reference with “or later”.
2	p2	2022-06-28	Approved by BTI on 2022-06-20. CSIP v1.0.1 adopted by the BoD on 2022-06-21. Prepared for TCRL 2022-1 publication.
	p2ed2r00	2022-08-04	TSE 19319 (rating 1): Removed D&W information that was prematurely added during the .Z release until the dates are formally approved by the BoD.
	p2 edition 2	2022-08-22	Approved by BTI on 2022-08-22. Prepared for edition 2 publication.
	p2ed3r00	2023-02-15	TSE 22615 (rating 1): Replaced ILD references to Security Manager 8/1 with references to SM 8a/1 (for Central role) or SM 8b/1 (for Peripheral role) in Tables 7 and 15. Updated the heading for Section 1.5.2. Editorials to align the document with the latest ICS template. Deleted draft revision history comments prior to p0.
	p2 edition 3	2023-03-15	Approved by BTI on 2023-03-13. Prepared for edition 3 publication.
	p3r00–r02	2023-08-25 – 2023-11-28	TSE 23343 (rating 2): To resolve GAP/SM ILDs, removed the SM ICS from the References section and deleted the SM Requirements tables (Tables 7 and 15). Updated the Status for 6/3 – 6/10 and 6/13, and added 6/11a, 6/11b, and 6/14 – 6/19, with updated C.3 and C.4, deleted previous C.5 and C.6, and new C.5 – C.12. Updated the Feature description for 10/1. Updated the Status for 14/6, 14/9, 14/10, and 14/13, and added 14/11a, 14/11b, and 14/14 – 14/19, with updated C.5 and C.6, deleted previous C.7, and new C.8 – C.13.

Publication Number	Revision Number	Date	Comments
3	p3	2024-07-01	Approved by BTI on 2024-04-21. Prepared for TCRL 2024-1 publication.
	p4r00–r04	2024-10-28 – 2024-12-13	TSE 25422 (rating 2): Added Items 12 and 13 and conditionals C.4 and C.5 to Table 13. TSE 26365 (rating 1): Updated Item 1 and added conditionals C.1 and C.2 for Tables 3 and 8. Updated Items 1 and 2 and C.1 for Tables 4 and 9.
4	p4	2025-02-18	Approved by BTI on 2025-02-09. Prepared for TCRL 2025-1 publication.
	p5r00	2025-04-16	TSE 27369 (rating 1): Updated the Status value for CSIP 2/1 and CSIP 2/2. Added conditionals C.1 and C.2 to Table 2 and renumbered C.1 as C.3.
5	p5	2025-07-08	Approved by BTI on 2025-05-30. Prepared for TCRL pkg100 publication.
	p6r00–r06	2025-07-22 – 2025-09-24	TSE 27573 (rating 1): Updated ILD in CSIP 6/2 and CSIP 14/2. Incorporated CR_CSIP_TEST_CR_d1.1._r05. To account for the Coordinated Set Name feature enhancement in Coordinated Set Identification Profile Specification v1.1, added Items 3/2, 5/7 – 5/10, 8/2, 11/5, 13/14, and 13/15. Updated the Reference value for Items 5/4 – 5/6, and 12/1 – 12/5. Added conditions C.4 – C.6 to Table 5, C.1 to Table 11, and C.6 to Table 13. Updated C.1 for Tables 3 and 8. Updated the references list.
6	p6	2025-11-04	Approved by BTI on 2025-09-29. CSIP v1.1 adopted by the BoD on 2025-11-03. Prepared for TCRL pkg101 publication.
	p7r00	2025-12-05 – 2026-01-05	TSE 28372 (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.
7	p7	2026-02-17	Approved by BTI on 2026-01-26. Prepared for TCRL pkg102 publication.
	p8r00	2026-03-05	TSE 28499 (rating 1): Updated Item 2, 3, 11, and 12 Capability names in Table 5.
8	p8	2026-06-23	Approved by BTI on 2026-05-28. Prepared for TCRL pkg104 publication.

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