Coordinated Set Identification Service (CSIS)

***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	CSIS v1.0	[1] 2.1	C.1, C.2
2	CSIS v1.1	[1] 2.1	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 Withdrawn 2027-02-01.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 0a: X.Y.Z Versions

Item	Version	Reference	Status
1	No longer used	N/A	N/A
2	CSIS v1.0.1	[1] 2.1	C.1

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

2.2 Transports

Table 1: Transport Requirements

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

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

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

C.3: Mandatory to support at least one.

2.3 Service requirements

Table 2: Coordinated Set Identification Service Requirements

Item	Feature	Reference	Status
1	Set Identity Resolving Key Characteristic	[1] 5.1	M
2	Coordinated Set Size Characteristic	[1] 5.2	O
3	Set Member Lock Characteristic	[1] 5.3	O
4	Set Member Rank Characteristic	[1] 5.4	C.1
5	Encrypted SIRK	[1] 2.2, 5.1.1	C.2
6	Plaintext SIRK	[1] 2.2, 5.1.1	C.2
7	OOB SIRK Only	[1] 2.2, 5.1.1	C.2
8	Coordinated Set Name Characteristic	[4] 5.5	C.3
9	Oversized Coordinated Set Names	[4] 1.4	C.4

C.1: Mandatory IF CSIS 2/3 “Set Member Lock Characteristic”, otherwise Optional.

C.2: Mandatory to support at least one.

C.3: Excluded IF CSIS 0/1 “CSIS v1.0”, otherwise Optional.

C.4: Excluded IF CSIS 0/1 “CSIS v1.0”, otherwise Optional IF CSIS 2/8 “Coordinated Set Name Characteristic”, otherwise Excluded.

Table 2a: Service Requirements

Item	Feature	Reference	Status
1	Notifiable Set Identity Resolving Key Characteristic	[1] 5.1	C.1
2	Notifiable Coordinated Set Size Characteristic	[1] 5.2	C.2
3	Notifiable Coordinated Set Name Characteristic	[4] 5.5	C.3

C.1: Optional IF CSIS 2/1 “Set Identity Resolving Key Characteristic” AND CSIS 3/2 “Single Notification”, otherwise Excluded.

C.2: Optional IF CSIS 2/2 “Coordinated Set Size Characteristic” AND CSIS 3/2 “Single Notification”, otherwise Excluded.

C.3: Excluded IF CSIS 0/1 “CSIS v1.0”, otherwise Optional IF CSIS 2/8 “Coordinated Set Name Characteristic”, otherwise Excluded.

2.4 GATT requirements

Table 3: GATT Requirements

Item	Feature	Reference	Status	Inter-Layer Dependency
1	Write Characteristic Value	[1] 1.4	C.1	[2] GATT 4/14
2	Single Notification	[1] 1.4	C.1	[2] GATT 4/17
3	Read Characteristic Descriptor	[1] 1.4	C.1	[2] GATT 4/19
4	Write Characteristic Descriptor	[1] 1.4	C.1	[2] GATT 4/21
5	GATT Server over BR/EDR	[1] 1.4	C.2	[2] GATT 1a/4
6	GATT Server over LE	[1] 1.4	C.3	[2] GATT 1a/3
7	Read Long Characteristic Value	[4] 1.4	C.4	[2] GATT 4/10

C.1: Mandatory IF CSIS 2/3 “Set Member Lock Characteristic”, otherwise Optional.

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

C.3: Mandatory IF CSIS 1/2 “Service supported over LE”, otherwise not defined.

C.4: Mandatory IF CSIS 2/9 “Oversized Coordinated Set Names”, otherwise Optional.

2.5 SDP requirements

Table 4: SDP Requirements

Prerequisite: CSIS 1/1 “Service supported over BR/EDR”

Item	Feature	Reference	Status
1	SDP record present for CSIS	[1] 6	M
2–4	No longer used	N/A	N/A

2.6 GAP requirements

Table 5: GAP Requirements

Item	Feature	Reference	Status	Inter-Layer Dependency
1	Bondable mode (LE)	[1] 5.1, 5.2	C.1	[3] GAP 24/2 OR GAP 34/2
2	Bondable mode (BR/EDR)	[1] 5.1, 5.2	C.2	[3] GAP 1/7

C.1: Optional IF CSIS 1/2 “Service supported over LE”, otherwise not defined.

C.2: Optional IF CSIS 1/1 “Service supported over BR/EDR”, otherwise not defined.

3 References

[1] Coordinated Set Identification Service Specification, Version 1.0 or later

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

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

[4] Coordinated Set Identification Service 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. CSIS v1.0 adopted by the BoD on 2021-03-23. Prepared for publication.
	p1r00–r02	2021-09-15 – 2021-09-22	TSE 17490 (rating 4): Added ICS item for Expedited Erratum 17454 to Table 0a 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 17454 adopted by the BoD on 2021-10-05. Prepared for publication.
	p2r00–r01	2022-05-23 – 2022-06-10	TSE 18997 (rating 1): Modified Versions tables globally to account for v1.0.1 and associated deprecation and withdrawal. Affected tables are: Tables 0 and 0a. Updated CSIS reference with “or later”. Editorials to align the document with the latest ICS template and conventions, including capitalization in section headings and removing “is supported” from conditionals.
2	p2	2022-06-28	Approved by BTI on 2022-06-20. CSIS v1.0.1 adopted by the BoD on 2022-06-21. Prepared for TCRL 2022-1 publication.
	p2ed2 r00–r01	2022-08-04 – 2022-08-17	TSE 19318 (rating 1): Removed D&W information that was prematurely added during the .Z release until the dates are formally approved by the BoD. Editorials, including removing the draft entries in the revision history to align with current conventions.
	p2 edition 2	2022-08-22	Approved by BTI on 2022-08-22. Prepared for edition 2 publication.
	p3r00–r01	2023-08-15 – 2023-11-28	TSE 23661 (rating 2): Removed the SDP ICS from the References section. Added 3/5 and 3/6 and related conditionals C.2 and C.3. In Table 4, updated the Feature name for 4/1, deleted the ILD column, and deleted 4/2, 4/3, and 4/4. Editorials throughout to align the document with the latest ICS conventions.
3	p3	2024-07-01	Approved by BTI on 2024-04-21. Prepared for TCRL 2024-1 publication.
	p4r00–r03	2024-11-07 – 2024-12-13	TSE 23023 (rating 4): Added Tables 2a (service requirements) and 5 (GAP requirements). Added the GAP ICS to the references list. TSE 26364 (rating 1): Added Deprecation and Withdrawal dates for CSIS v1.0. Added conditionals C.1 and C.2 to Table 0. Marked Item 0a/1 as no longer used, and updated conditional C.1 in Table 0a.
4	p4	2025-02-18	Approved by BTI on 2025-02-09. Prepared for TCRL 2025-1 publication.
	p4ed2r00	2025-02-12	TSE 27089 (rating 1): Updated Table 2a conditionals C.1 and C.2.

Publication Number	Revision Number	Date	Comments
	p4 edition 2	2025-03-14	Approved by BTI on 2025-03-11. Prepared for edition 2 publication.
	p5r00	2025-04-16	TSE 27321 (rating 1): Updated the Status value for CSIS 1/1 and CSIS 1/2. 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–r01	2025-08-21 – 2025-09-19	Incorporated CR CSIS_TEST_CR_d1.1_r06. To account for the Coordinated Set Name feature enhancement in Coordinated Set Identification Service Specification v1.1, added CSIS 0/2, CSIS 2/8, CSIS 2/9, CSIS 2a/3, and CSIS 3/7. Updated condition C.1 for Table 0. Added C.3 and C.4 to Table 2, C.3 to Table 2a, and C.4 to Table 3. Updated the references list.
6	p6	2025-11-04	Approved by BTI on 2025-09-29. CSIS v1.1 adopted by the BoD on 2025-11-03. Prepared for TCRL pkg101 publication.
	p7r00–r01	2025-12-05 – 2026-01-14	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.

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