

SIM Access Profile (SAP)

Bluetooth® Implementation Conformance Statement (ICS) Proforma

- **Revision:** SAP.ICS.p10
- **Revision Date:** 2026-02-17
- **Prepared By:** BTI
- **Published during TCRL:** TCRL.pkg102



This document, regardless of its title or content, is not a Bluetooth Specification subject to the licenses granted by the Bluetooth SIG Inc. (“Bluetooth SIG”) and its members under the Bluetooth Patent/Copyright License Agreement and Bluetooth Trademark License Agreement.

THIS DOCUMENT IS PROVIDED “AS IS” AND BLUETOOTH SIG, ITS MEMBERS, AND THEIR AFFILIATES MAKE NO REPRESENTATIONS OR WARRANTIES AND DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY, TITLE, NON-INFRINGEMENT, FITNESS FOR ANY PARTICULAR PURPOSE, THAT THE CONTENT OF THIS DOCUMENT IS FREE OF ERRORS.

TO THE EXTENT NOT PROHIBITED BY LAW, BLUETOOTH SIG, ITS MEMBERS, AND THEIR AFFILIATES DISCLAIM ALL LIABILITY ARISING OUT OF OR RELATING TO USE OF THIS DOCUMENT AND ANY INFORMATION CONTAINED IN THIS DOCUMENT, INCLUDING LOST REVENUE, PROFITS, DATA OR PROGRAMS, OR BUSINESS INTERRUPTION, OR FOR SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY, AND EVEN IF BLUETOOTH SIG, ITS MEMBERS, OR THEIR AFFILIATES HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

This document is proprietary to Bluetooth SIG. This document may contain or cover subject matter that is intellectual property of Bluetooth SIG and its members. The furnishing of this document does not grant any license to any intellectual property of Bluetooth SIG or its members.

This document is subject to change without notice.

Copyright © 2001–2026 by Bluetooth SIG, Inc. The Bluetooth word mark and logos are owned by Bluetooth SIG, Inc. Other third-party brands and names are the property of their respective owners.



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	Core Configuration.....	5
2.3	Roles	5
2.4	Client role.....	6
2.5	Server role	6
2.6	Requirements toward other layers.....	7
2.6.1	GAP requirements	7
3	References	9
4	Revision history and acknowledgments	10

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	SDP Version	Reference	Status
1	SAP v1.0**	[2]	Deprecated 2021-02-01. Withdrawn 2023-02-01.
2	SAP v1.1	[1]	C.1, C.2

C.1: Mandatory.

C.2: Can only be supported with an active X.Y.Z version after Deprecation or Withdrawal. Deprecated 2021-02-01. Withdrawn 2022-02-01.

Table 0a: X.Y.Z Versions

Item	Version	Reference	Status
1	SAP v1.1.1	[1]	C.1

C.1: Mandatory IF SAP 0/2 “SAP v1.1”, otherwise Excluded.

2.2 Core Configuration

Table 0b: Core Configuration Requirements

Item	Core Configuration	Reference	Status
1	Profile supported over BR/EDR	[1] 2.1	C.1, C.3
2	Profile supported over LE	[1] 2.1	C.2

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.

C.3: Mandatory for this Profile.

2.3 Roles

Table 1: Role Requirements

Item	Role	Reference	Status
1	Client	[1] 2.2	C.1
2	Server	[1] 2.2	C.1

C.1: Mandatory to support at least one.

** Deprecated versions may not appear in the Bluetooth SIG qualification tool after the deprecation date. TCRLs published after this date will not allow the use of deprecated versions.

2.4 Client role

Table 2: Application Features (Client)

Prerequisite: SAP 1/1 “Client”

Item	Capability	Reference	Status
1	Connection Management	[1] 4.1, 4.2, 4.3	M
1a	Passkey length – Devices are bonded	[1] 4.1	C.1
1b	Security mode 4 support	[1] 2.5	M
2	Transfer APDU	[1] 4.4	M
3	Transfer ATR	[1] 4.5	M
4	Power SIM off	[1] 4.6	O
5a	Power SIM on (SIM Access Profile Connection can be established and or maintained without a SIM card in the Server)	[1] 4.7	C.2
5b	Power SIM on (SIM Access Profile Connection cannot be established and or maintained without a SIM card in the Server)	[1] 4.7	C.2
6	Reset SIM	[1] 4.8	O
7a	Report Status (SIM Access Profile Connection can be established and or maintained without a SIM card in the Server)	[1] 4.9	C.3
7b	Report Status (SIM Access Profile Connection cannot be established and or maintained without a SIM card in the Server)	[1] 4.9	C.3
8	Transfer Card Reader Status	[1] 4.10	O
9	Set Transport Protocol	[1] 4.12	O
10	Perform Bonding outside SIM Access Profile connection	[1] 2.5	O

C.1: Mandatory IF SAP 2/10 “Perform Bonding outside SIM Access Profile connection”, otherwise Optional.

C.2: Mandatory to support at least one.

C.3: Mandatory to support at least one.

2.5 Server role

Table 3: Application Features (Server)

Prerequisite: SAP 1/2 “Server”

Item	Capability	Reference	Status
1	Connection Management	[1] 4.1, 4.2, 4.3	M
1a	Passkey length – Devices are bonded	[1] 4.1	C.1
1b	Security mode 4 support	[1] 2.5	M
2	Transfer APDU	[1] 4.4	M
3	Transfer ATR	[1] 4.5	M
4	Power SIM off	[1] 4.6	M



Item	Capability	Reference	Status
5	Power SIM on (SIM can be inserted into the Server without terminating the SIM Access Profile connection)	[1] 4.7	C.2
6	Power SIM on (SIM cannot be inserted into the Server without terminating the SIM Access Profile connection)	[1] 4.7	C.2
7	Reset SIM	[1] 4.8	M
8	Report Status (SIM can be inserted into or removed from the Server without terminating the SIM Access Profile connection)	[1] 4.9	C.3
9	Report Status (SIM cannot be inserted into or removed from the Server without terminating the SIM Access Profile connection)	[1] 4.9	C.3
9a	Report Status (SIM cannot be inserted into or removed from the Server without terminating the device functionality)	[1] 4.9	C.5
10	Transfer Card Reader Status	[1] 4.10	M
11	Set Transport Protocol	[1] 4.12	O
12	Perform Bonding outside SIM Access Profile connection	[1] 2.5	O

- C.1: Mandatory IF SAP 3/12 “Perform Bonding outside SIM Access Profile connection”, otherwise Optional.
- C.2: Mandatory to support at least one.
- C.3: Mandatory to support at least one.
- C.4: No longer used.
- C.5: Optional IF SAP 3/9 “Report Status (SIM cannot be inserted into or removed from the Server without terminating the SIM Access Profile connection)”, otherwise Excluded.

2.6 Requirements toward other layers

2.6.1 GAP requirements

Table 4: GAP Requirements (Client)

Prerequisite: SAP 1/1 “Client”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Bondable mode	[1] 8.1	M	[3] GAP 1/7
2	Authentication procedure	[1] 8.2	M	[3] GAP 2/1
3–4, 4a	No longer used	N/A	N/A	N/A
5	Initiation of general inquiry	[1] 8.3	M	[3] GAP 3/1
6	Initiation of general bonding	[1] 8.3	M	[3] GAP 3/5

Table 5: No longer used



Table 6: GAP Requirements (Server)*Prerequisite: SAP 1/2 "Server"*

Item	Capability	Reference	Status	Inter-Layer Dependency
1	General discoverable mode	[1] 8.1	M	[3] GAP 1/3
2	Connectable mode	[1] 8.1	M	[3] GAP 1/5
3	Bondable mode	[1] 8.1	M	[3] GAP 1/7
4	Authentication procedure	[1] 8.2	M	[3] GAP 2/1
5–7	No longer used	N/A	N/A	N/A

Table 7: No longer used

3 References

- [1] SIM Access Profile (SAP) Specification, Version 1.1 or later
- [2] SIM Access Profile (SAP) Specification, Version 1.0
- [3] ICS Proforma for Generic Access Profile (GAP)

4 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
0	1.0.1	2005-03-29	Prepare for publication
1	1.0.2	2005-06-03	Corrected Tables SAP 4, 5, 6, and 7 references to GAP and LM ICS table/items.
	1.2.1r0	2006-04-11	Editorial updates for specification version 1.2 or later
2	1.2.1	2006-04-14	Prepare for publication.
	1.1.2r1	2007-08-02	Add Secure Simple Pairing information
	1.1.2r2	2008-07-14	Updates from BTI initial comments
	1.1.2r3	2008-07-29	Added Table 0: Versions Added Footnote to C.5 to Tables 2 and 3 Corrected version on title page and in Rev History from 1.2.x to 1.0.x and 1.1.x Added new version number on title page.
3	1.1.2	2008-11-26	Correct Document IDs. Prepare for publication.
	1.1.3r0	2010-09-09	TSE 2907: Change Table 7 title from Client to Server TSE 3359: Add PICS item 3/9a for TP/RPS/BV-01-I
4	1.1.3	2011-07-21	Prepare for publication.
	1.1.4r0	2011-11-14	TSE 4487: Table 2/1b, 3/1b: Delete footnote C.5
5	1.1.4	2012-03-30	Prepare for publication.
	1.1.1.0r00	2015-10-28	Updated version numbering to align with Specification version change from 1.1 to 1.1.1 for ESR09. With the specification taking a third identifying number, the ICS version identifier moves to the fourth number and starts again at 0.
	1.1.1.0r01	2015-11-02	Added item 0/3 for new Specification version 1.1.1 (ESR09).
	1.1.1.0r02	2015-11-20	Reviewed by Alicia Courtney. Converted to current document template.
	1.1.1.0r03	2015-11-24	Added Table 0a for minor profile versions.
6	1.1.1.0	2015-12-22	Prepared for TCRL 2015-2 publication
	1.1.1.1r00	2017-08-18	TSE 9517: Fixed Application Features (Server) table number.
	1.1.1.1r01	2017-09-21	Update template.
7	1.1.1.1	2017-11-28	Approved by BTI. Prepared for TCRL 2017-2 publication.
	1.1.1.1 ed2r00	2021-01-16	TSE 15988 (rating 1): Changes for Deprecation.
	1.1.1.1 edition 2	2021-02-01	Approved by BTI on 2021-01-18. Prepared for edition 2 publication.
	1.1.1.1 ed3r00	2021-11-02	TSE 17771 (rating 1): Updated for deprecation and withdrawal decisions and consistency checker fixes. Template-related editorials.

Publication Number	Revision Number	Date	Comments
	1.1.1.1 edition 3	2021-11-24	Approved by BTI on 2021-11-08. Prepared for edition 3 publication.
	p8r00-r01	2023-10-18 – 2023-11-27	TSE 23943 (rating 2): Updated GAP inter-layer dependencies. Updated the Status value for Items 2/1b and 3/1b. Corrected a typographical error in Item 1/2. Deleted C.4 from Table 2. Updated the prerequisite for Tables 3 and 6. In Table 3, marked C.4 as no longer used. In Table 4, updated the references in the ILD column, marked Items 3–4 and 4a as no longer used, and deleted C.1. In Table 6, updated the references in the ILD column, marked Items 5–7 as no longer used, and deleted C.1. Updated the references list. Made editorial edits to align the document with the latest ICS template, including updates to the IUT identification section, section and table titles, and spacing and removal of “is supported” language from conditionals. Deleted draft revision history comments prior to p0.
8	p8	2024-07-01	Approved by BTI on 2024-05-22. Prepared for TCRL 2024-1 publication.
	p9r00	2025-03-31 – 2025-04-01	TSE 27015 (rating 2): Updated condition C.2 for Table 0. Added Table 0b, Core Configuration Requirements. Updated the role names for Items SAP 1/1 and SAP 1/2 throughout. Incorporated editorials to align the document with the latest ICS template, including updates to Section 1 and the addition of a section heading for the ICS declarations section.
9	p9	2025-07-08	Approved by BTI on 2025-05-30. Prepared for TCRL pkg100 publication.
	p10r00	2025-12-05 – 2026-01-08	TSE 28346 (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.
10	p10	2026-02-17	Approved by BTI on 2026-01-22. Prepared for TCRL pkg102 publication.

Acknowledgments

Name	Company
Kreg Ulery	Agere Systems
Holger Lenz	Berner & Mattner Systemtechnik GmbH
Penny Breyer	Cambridge Silicon Radio Ltd.
Burch Seymour	Continental Automotive Systems
Lowell Campbell	Denso Corp.
Kazu Suzuki	Denso Corp.
Jesus-Angel Gonzalez Pulido	Ericsson España, S.A.



Name	Company
Daniel S. Rokusek	Motorola, Inc.
Raghunandan Sanjeev	Motorola, Inc.
Michael Svob	Motorola, Inc.
Björn Bunte	Nokia Corp.
Patrick Clauberg	Nokia Corp.
Holger Krummel	Nokia Corp.
Martin Roter	Nokia Corp.
Dmitri Toropov	Siemens AG
Yoichiro Takeuchi	Toshiba Corp.