

SIM Access Profile (SAP)

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 | 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 Withdrawn 2023-02-01.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 Withdrawn 2022-02-01.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”.

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. |

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