

Appendix A to Declaration of Compliance: Summary of Selected Specifications in Implementation (SUM ICS)

Bluetooth® Implementation Conformance Statement (ICS) Proforma

- **Revision:** SUM.ICS.5.0.3
- **Revision Date:** 2018-07-02
- **Group Prepared By:** BTI
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Revision History

Revision History	Date	Comments
2.0.E.0	2004-10-22	Update to accompany system specification 2.0 + EDR.
2.0.E.4	2004-11-03	First version for 1.2/2.0/2.0 + EDR available for qualification
2.0.E.5	2005-03-14	Editorial change in table in Section 4.1 for the release of BPP 1.0.
2.0.E.6	2005-04-27	Editorial changes to Table 1-1.
2.0.E.7	2005-05-01	TSE 784: Editorial change to table in Section 3.1 Removed asterisks for all columns for TSE 784 Removed asterisks for HCI in Section 2.2 and 3.1; removed 3.1 footnote Removed footnote from top table on page 7 Added SAP 1.0 to Table in Sec. 4.1. Sorted table by Spec. Part Name Update out of date spec references and add Device ID, BPP 1.2, HCRP 1.2, and PBAP.
2.1.E.0	2007-01-18	Update EDR implementation statement following Table 2.1 Update prerequisite for Table 2.2
2.1.E.1	2008-06-26	Updated Table 2-1: corrected adoption date for Core Spec 2.1 Updated Table 2-3, Table 2-4: removed duplicate columns Updated Table 3-1: status column added Updated Table 3-2: added footnote; Updated Table 4-1: added new profiles/protocols, removed deprecated profiles
2.1.E.2r0	2008-08-27	Editorial: Added Item numbers for Tables 2-3, 2-4, 3-3 Updated Table 2-1, 2-2 with missing changes for CSA1 (after adoption and release) TSE 2616: Move SPP for Table 3-2 to Table 4-1, Add AVCTP 1.2/AVDTP 1.2 to Table 4-1
2.1.E.2	2008-12-18	Prepare for publication.
2.1.E.3r0	2009-3-04	Updated for Seattle
2.1.E.3r1	2009-03-12	Editorial updates Added all the product types to table 11 as defined in the Spec, and added conditionals based on current TCRL Requirements for IOPT Removed redundant items from table 31. (EDR doesn't matter for Host) Added conditionals above Table 21 and 31 to restrict them for appropriate product types only. Removed hyphens from the all table numbering (e.g. 2-1 = 21) to match with TPG requirements.

Revision History	Date	Comments
2.1.E.3.r2-6	2009-03-23	<p>Removed 21/9 and removed reference to 21/9 on the conditional C.1 on Table 21 and for C.1 on Table 22 replaced 21/9 with 41/1.</p> <p>Added new pre-requisite under Table 31 for new items 8 and 9. "C.3: Pre-requisite Controller functionality with Core Spec Version 2.1 or later (21/5, 21/6 or 21/8)." To make sure Core 2.0 and earlier controllers are not allowed to be mixed with 3.0 hosts.</p> <p>On Table 22 EDR features updated Pre-requisites list to include Core 3.0 item 2/8.</p> <p>Added the following Prerequisite for table 41/1 to make sure it is only supported by eligible designs with appropriate Host and Controller version or for Component products.</p> <p>Prerequisite: 21/5 OR 21/6 OR 21/8 OR 31/6 OR 21/8 OR 31/9 11/2 OR 11/3 (Controller Ver. 2.1 or 2.1 + EDR or 3.0 or Host Version 3.0+HS or One of the Component Product Types)</p> <p>Removed C.3 from Table 31.</p> <p>Updated Pre-requisite for Table 41</p> <p>Fixed conditionals C.1 and C.2 in Table 22. (Siegfried's BTI comment)</p> <p>Table 42 – Added C.1 and C.2 and a Pre-requisite.</p> <p>Table 41 – Corrected the conditional by replacing Host SS with Controller SS.</p> <p>Several editorial updates to Reference and Status columns in Tables 21, 23, 24, 31, 32, 33, 42 and 43</p> <p>Replaced references in Tables 21, 31 and 41 with the actual Specification Name.</p>
3.0.H.0	2009-04-07	Prepare for publication.
4.0.LE.r1	2009-04-22	Document merge with LE-ICS09d1
4.0.0d4	2010-04-18	Work in progress 4.0 host added to align with current Compliance requirements draft
4.0.0d5	2010-06-13	Updated references according to Core v4.0 drafts
4.0.0d6	2010-06-28	<p>Product host subsystem product types 11/2c, 11/2d, 11/2e, 11/2f excluded. (Aligned with BARB conditions for approval of v4.0, all Host Subsystem product types claiming compliance to v4.0 ONLY shall not be qualifiable until the PTS is a validated tester for the six TP/GAD/CL conformance tests defined in the GATT TS.</p> <p>Corrected conditions for 12/9</p>

Revision History	Date	Comments
4.0.0d7	2010-06-30	Undone changes made in 4.0.0d6 to host subsystem product types 11/2c, 11/2d, 11/2e, 11/2f
4.0.1	2010-06-30	Changed “Tokyo” to “Core 4.0” and updated footer dates.
4.0.2	2010-08-11	Added PBAP 1.1, FTP 1.2, BIP 1.1, OPP 1.2, GOEP 2.0, and OBEX (IrDA) 2.0
4.0.3r0	2011-01-19	TSE 3926 and 4181: TPG only. TSE 4180. For erratum 3852: 12/2 and 34/4
4.0.3r1	2011-04-14	Editorial correction to Table 12/2 for TSE 4180
4.0.3	2011-07-18	Prepare for publication.
4.0.4	2011-12-27	Adopted by the Bluetooth SIG Board of Directors
4.0.5r0	2012-06-08	TSE 4597: Updates to Table 22 Footnote C.1 and C.2 and Prerequisite TSE4567: Update 12/9 to include both 12/2 and 12/7 requirements CSA 3 declarations added to applicable tables
4.0.6r0	2013-01-11	BQRB Review CSA 4 declarations added to applicable tables Editorial updates Removal of duplicate C.2 and correction made to C.3 in Table 23 Corrected numbering of second C.5 as C.6 in Table 32
4.0.6r1-r4	2013-01-28	BTI Review (Alicia, 2x Magnus, Jason Meagan) Added Mayank’s comments as well Updated Tables 51 and 52
4.0.6	2013-02-19	Prepare for Publication
4.0.7rT	2013-08-30	Template Conversion Added newly adopted specifications to section 5, Application Protocols and Profile Specifications Updated conditional wording to match BTI language.
4.1.0r01	2013-09-30	TSE 5320: Corrected second instance of Table 11 to be Table 12. (Done during template conversion). TSE 5319: Updated C.3 for Table 11 to read, “C.3: Optional if (12/1 AND 12/2) AND (NOT (12/8 AND 12/9) OR (12/6 and 12/7)) are supported, otherwise Excluded.”



Revision History	Date	Comments
4.1.0r02	2013-10-04	LE Dual Mode Topology CR
4.1.0r03	2013-10-20	Review by Chris Church
4.1.0r04	2013-10-28	Xuguang's Review
4.1.0r5	2013-11-07	Fixed misnamed Controller and Host Core naming to remove BR/EDR
4.1.0r06	2013-11-12	Removed notes that were a carry-over from Chris Church's use of the document instead of review comments.
4.1.0	2013-12-03	Prepare for Publication
4.1.1r00	2014-04-04	TSE 5554: Removed conditional C.4 from Table 31, renumbered existing C.5 to C.4. Updated the status for 31/12 to C.3 and for 31/13 to C.4. SEE Updated TSE 5444 in 4.1.1r02 revision draft.
4.1.1r01	2014-05-22	Added parenthetical descriptions to all items in conditionals.
4.1.1r02	2014-06-21	BTI Review, Alicia: editorial corrections. Removal of original TSE 5554 changes. Updated TSE 5444: Only editorial corrections for the parenthetical descriptions to all items in conditionals. (as originally made in 4.1.1r01 revision)
4.1.1	2014-07-07	TCRL 2014-1 Publication
4.1.2r00	2014-10-26	TSE 5999: Updated 12/7 to reflect Errata 5748.
4.2.0r00	2014-11-12	Added updates for Core Version 4.2. New items, 21/14, 31/16 and 31/17. BTI Review, addressed comments from Magnus, Mayank and Alicia.
4.2.0	2014-12-05	Prepared for TCRL 2014-2 publication
4.2.1r00	2015-06-23	Added items 32/13 and 34/10 for Core Specification Supplement v6 (CSS v6), Advertising URI and Efficient Non-Connectable Advertising.
4.2.1r01	2015-06-24	CSSv6 changes reviewed by Magnus Sommansson
4.2.1	2015-07-14	Prepared for TCRL 2015-1 publication
4.2.2r00	2015-11-18	Updated Table 21 for Core Specification Addendum 5 (CSA5).
4.2.2	2015-12-22	Prepared for TCRL 2015-2 publication.

Revision History	Date	Comments
4.2.3r00	2016-03-10	TSE 6543: Table 34, Item 1 status updated and new conditional statement added.
4.2.3	2016-07-07	Prepared for TCRL 2016-1 publication
5.0.0r00	2016-07-07	Integrated changes for Core Specification 5.0 release
5.0.0r01	2016-10-11	TSE 7459: Updated feature names for SUM.ICS 22/3 and SUM.ICS 22/4 (added Core specification versions); editorial changes to table reference formatting.
5.0.0r02	2016-11-15	Updated to current template. Removed unnecessary parentheses and replaced with quotation marks.
5.0.0r03	2016-11-16	Added items 32/14 and 34/11 for Core Specification Supplement 7 (CSSv7).
5.0.0r04	2016-11-18	Address obsolete CSS references in table 32 and 34. Editorial consolidation of revision history.
5.0.0	2016-12-13	Approved by BTI. Prepared for TCRL 2016-2 publication.
5.0.1r00	2017-05-01	Added item 34/12 and C.6 for Core Specification Addendum 6 (CSA6).
5.0.1	2017-07-18	Prepared for TCRL 2017-1 publication.
5.0.2r00	2017-07-21	TSE 9062: In the Prerequisite of Table 21: Controller Core Configuration, change 11/4 to 11/2.
5.0.2r01	2017-08-22	TSE 9399: Added Alicia Courtney to Contributors. Revised Table 22 note C.3. Revised Table 24 items 5–7 and note C.2.
5.0.2	2017-12-07	Approved by BTI. Prepared for TCRL 2017-2 publication.
5.0.3r00	2018-06-19	Incorporated Core E10734 Pairing Updates TS CR: Added items 21/17, 25/4, and 34/13, and new conditionals.
5.0.3	2018-07-02	Approved by BTI. Prepared for TCRL 2018-1 publication.

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1 Identification of the Implementation

Identification of the Implementation Under Test (IUT) shall be filled in to provide as much detail as possible regarding version numbers and configuration options.

An ICS contact person to respond to queries regarding information supplied in this ICS proforma shall be named in Appendix A of the Declaration of Compliance: Summary of Selected Specifications in Implementation.

1.1 Implementation Under Test (IUT) Identification

IUT Name: 


IUT Version (Hardware/Software ID): 

IUT Supplier: 

In Table 11, Supplier shall indicate the product type under which the Implementation will be qualified, per the Bluetooth Qualification Program Reference Document.

Product type definitions, per the Compliance Requirements Vol 0 Part B:

Table 11: Product Types

Item	Feature	Reference	Status	Support
1	End Product			
1a	BR	Interoperability Test Suite (IOPT.TS)	C.1, C.2, C.3	
1b	EDR	Interoperability Test Suite (IOPT.TS)	C.1, C.2, C.4	
1c	HS	Interoperability Test Suite (IOPT.TS)	C.1, C.2, C.5	
1d	LE	N/A	C.1, C.6	
1e	BR and LE	Interoperability Test Suite (IOPT.TS)	C.1, C.2, C.7	
1f	EDR and LE	Interoperability Test Suite (IOPT.TS)	C.1, C.2, C.8	
1g	HS and LE	Interoperability Test Suite (IOPT.TS)	C.1, C.2, C.9	
2	Host Subsystem			
2a	BR	Interoperability Test Suite (IOPT.TS)	C.1, C.2, C.10	
2b	HS	Interoperability Test Suite (IOPT.TS)	C.1, C.2, C.12	
2c	LE	N/A	C.1, C.13	
2d	BR and LE	Interoperability Test Suite (IOPT.TS)	C.1, C.2, C.12	
2e	EDR and LE	Interoperability Test Suite (IOPT.TS)	C.1, C.2, C.15	
2f	HS and LE	Interoperability Test Suite (IOPT.TS)	C.1, C.2, C.16	
3	Controller Subsystem			
3a	BR	N/A	C.1, C.17	
3b	EDR	N/A	C.1, C.18	
3c	HS	N/A	C.1, C.19	

Item	Feature	Reference	Status	Support
3d	HS only	N/A	C.1, C.20	
3e	LE	N/A	C.1, C.21	
3f	BR and LE	N/A	C.1, C.22	
3h	EDR and LE	N/A	C.1, C.23	
3i	HS and LE	N/A	C.1, C.24	
	Other			
4	› Component (Tested)	N/A	C.1	
5	› Component (Non-Tested)	N/A	C.1	
6	› Profile Subsystem	Interoperability Test Suite (IOPT.TS)	C.1, C.2	
7	› Test Equipment	N/A	C.1	
8	› Development Tool	N/A	C.1	

- C.1: Mandatory to support one and only one of the product types.
- C.2: The interoperability test suite (referred to as IOPT test suite) is used to establish Profile Conformance and Interoperability in an End-Product comprising on an arbitrary set of Bluetooth Profiles. It is mandatory only for End-Products, Host Subsystem products and Profile Subsystem products. Refer to current TCRL for applicable IOPT.TS version.
- C.3: Optional IF ((12/1 “BR – Controller” AND 12/2 “BR – Host”) AND (NOT (12/8 “BR and LE Combined – Controller” OR 12/9 “BR and LE Combined – Host” OR 12/6 “LE – Controller” OR 12/7 “LE – Host”))) is supported, otherwise Excluded.
- C.4: Optional IF ((12/1 “BR – Controller” AND 12/2 “BR – Host” AND 12/3 “EDR – Controller”) AND (NOT (12/8 “BR and LE Combined – Controller” OR 12/9 “BR and LE Combined – Host” OR 12/6 “LE – Controller” OR 12/7 “LE – Host”))) is supported, otherwise Excluded.
- C.5: Optional IF ((12/1 “BR – Controller” AND 12/2 “BR – Host” AND 12/3 “EDR – Controller” AND 12/4 “HS – Controller” AND 12/5 “HS – Host”) AND (NOT (12/8 “BR and LE Combined – Controller” OR 12/9 “BR and LE Combined – Host” OR 12/6 “LE – Controller” OR 12/7 “LE – Host”))) is supported, otherwise Excluded.
- C.6: Optional IF ((12/6 “LE – Controller” AND 12/7 “LE – Host”) AND (NOT (12/1 “BR – Controller” OR 12/2 “BR – Host” OR 12/3 “EDR – Controller” OR 12/4 “HS – Controller” OR 12/5 “HS – Host” OR 12/8 “BR and LE Combined – Controller” OR 12/9 “BR and LE Combined – Host”))) is supported, otherwise Excluded.
- C.7: Optional IF ((12/8 “BR and LE Combined – Controller” AND 12/9 “BR and LE Combined – Host”) AND (NOT (12/1 “BR – Controller” OR 12/2 “BR – Host” OR 12/6 “LE – Controller” OR 12/7 “LE – Host”))) is supported, otherwise Excluded.
- C.8: Optional IF ((12/3 “EDR – Controller” AND 12/8 “BR and LE Combined – Controller” AND 12/9 “BR and LE Combined – Host”) AND (NOT (12/1 “BR – Controller” OR 12/2 “BR – Host” OR 12/6 “LE – Controller” OR 12/7 “LE – Host”))) is supported, otherwise Excluded.
- C.9: Optional IF ((12/3 “EDR – Controller” AND 12/4 “HS – Controller” AND 12/5 “HS – Host” AND 12/8 “BR and LE Combined – Controller” AND 12/9 “BR and LE Combined – Host”) AND (NOT (12/1 “BR – Controller” OR 12/2 “BR – Host” OR 12/6 “LE – Controller” OR 12/7 “LE – Host”))) is supported, otherwise Excluded.
- C.10: Optional IF ((12/2 “BR – Host” AND 12/10 “HCI Core Configuration”) AND (NOT (12/7 “LE – Host” OR 12/9 “BR and LE Combined – Host”))) is supported, otherwise Excluded.

- C.12: Optional IF ((12/2 “BR – Host” AND 12/5 “HS – Host” AND 12/10 “HCI Core Configuration”) AND (NOT (12/7 “LE – Host” OR 12/9 “BR and LE Combined – Host”))) is supported, otherwise Excluded.
- C.13: Optional IF ((12/7 “LE – Host” AND 12/10 “HCI Core Configuration”) AND (NOT (12/2 “BR – Host” OR 12/5 “HS – Host” OR 12/9 “BR and LE Combined – Host”))) is supported, otherwise Excluded.
- C.14: Optional IF ((12/9 “BR and LE Combined – Host” AND 12/10 “HCI Core Configuration”) AND (NOT (12/2 “BR – Host” OR 12/7 “LE – Host”))) is supported, otherwise Excluded.
- C.15: Optional IF ((12/9 “BR and LE Combined – Host” AND 12/10 “HCI Core Configuration”) AND (NOT (12/2 “BR – Host” OR 12/7 “LE – Host”))) is supported, otherwise Excluded.
- C.16: Optional IF ((12/5 “HS – Host” AND 12/9 “BR and LE Combined – Host” AND 12/10 “HCI Core Configuration”) AND (NOT (12/2 “BR – Host” OR 12/7 “LE – Host”))) is supported, otherwise Excluded.
- C.17: Optional IF ((12/1 “BR – Controller” AND 12/10 “HCI Core Configuration”) AND (NOT (12/6 “LE – Controller” OR 12/8 “BR and LE Combined – Controller”))) is supported, otherwise Excluded.
- C.18: Optional IF ((12/1 “BR – Controller” AND 12/3 “EDR – Controller” AND 12/10 “HCI Core Configuration”) AND (NOT (12/6 “LE – Controller” OR 12/8 “BR and LE Combined – Controller”))) is supported, otherwise Excluded.
- C.19: Optional IF ((12/1 “BR – Controller” AND 12/3 “EDR – Controller” AND 12/4 “HS – Controller” AND 12/10 “HCI Core Configuration”) AND (NOT (12/6 “LE – Controller” OR 12/8 “BR and LE Combined – Controller”))) is supported, otherwise Excluded.
- C.20: Optional IF ((12/4 “HS – Controller” AND 12/10 “HCI Core Configuration”) AND (NOT (12/1 “BR – Controller” OR 12/3 “EDR – Controller” OR 12/6 “LE – Controller” OR 12/8 “BR and LE Combined – Controller”))) is supported, otherwise Excluded.
- C.21: Optional IF ((12/6 “LE – Controller” AND 12/10 “HCI Core Configuration”) AND (NOT (12/1 “BR – Controller” OR 12/3 “EDR – Controller” OR 12/4 “HS – Controller” OR 12/8 “BR and LE Combined – Controller”))) is supported, otherwise Excluded.
- C.22: Optional IF ((12/8 “BR and LE Combined – Controller” AND 12/10 “HCI Core Configuration”) AND (NOT (12/1 “BR – Controller” OR 12/6 “LE – Controller”))) is supported, otherwise Excluded.
- C.23: Optional IF ((12/3 “EDR – Controller” AND 12/8 “BR and LE Combined – Controller” AND 12/10 “HCI Core Configuration”) AND NOT (12/1 “BR – Controller” OR 12/6 “LE – Controller”))) is supported, otherwise Excluded.
- C.24: Optional IF ((12/3 “EDR – Controller” AND 12/4 “HS – Controller” AND 12/8 “BR and LE Combined – Controller” AND 12/10 “HCI Core Configuration”) AND (NOT (12/1 “BR – Controller” OR 12/6 “LE – Controller”))) is supported, otherwise Excluded.

In Table 12, Core configurations per the Compliance Requirements Vol 0 Part B are defined.

Table 12: Core Configuration

Item	Abbreviation	Explanation	Controller/Host Part	Required Summary ICS Item
1	BR CC – C	Bluetooth Basic Rate Core Configuration	Controller	23/1 AND 23/2 AND 23/3
2	BR CC – H	Bluetooth Basic Rate Core Configuration	Host	32/1 AND 32/2 AND 32/3 AND ((34/4 if 34/3) OR (34/3 if 34/4) OR NOT(34/3 OR 34/4))
3	EDR CC	Bluetooth Enhanced Data Rate Core Configuration	Controller	22/1 OR 22/2 OR 22/3 OR 22/4

Item	Abbreviation	Explanation	Controller/Host Part	Required Summary ICS Item
4	HS CC – C	High Speed Bluetooth Core Configuration	Controller	42/1
5	HS CC – H	High Speed Bluetooth Core Configuration	Host	32/1 AND 32/6
6	LE CC – C	Bluetooth Low Energy Core Configuration	Controller	25/1 AND 25/2
7	LE CC – H	Bluetooth Low Energy Core Configuration	Host	(L2CAP 2/40 AND 34/3 AND 34/5) IF (GAP 5/3 OR GAP 5/4) AND 34/2 AND (34/4 IF 34/3)
8	BR and LE Combined CC – C	Bluetooth Basic Rate and Low Energy Combined Core Configuration	Controller	23/1 AND 23/2 AND 23/3 AND 25/1 AND 25/2
9	BR and LE Combined CC – H	Bluetooth Basic Rate and Low Energy Combined Core Configuration	Host	32/1 AND 32/2 AND 32/3 AND 34/1 AND 34/2 AND 34/3 AND 34/4 AND 34/5
10	HCI CC	Host Controller Interface Core Configuration		23/4 OR 25/3

2 Controller

If providing any Controller functionality, the Supplier shall indicate Support for one Bluetooth Specification in Table 21.

Table 21: Controller Core Configuration

Prerequisite: NOT (11/2 “Host Subsystem” OR 11/6 “Profile Subsystem”)

Item	Feature	Reference	Status	Support
1	Item no longer used	N/A	N/A	N/A
2	Item no longer used	N/A	N/A	N/A
3	Core Specification Version 2.0, Adopted 4 Nov 2004	Core 2.0	C.1	
4	Core Specification Version 2.0 + EDR, Adopted 4 Nov 2004	Core 2.0 + EDR	C.1	
5	Core Specification Version 2.1, Adopted 26 July 2007	Core 2.1	C.1	
6	Core Specification Version 2.1 Table EDR, Adopted 26 July 2007	Core 2.1 + EDR	C.1	
7	Core Specification Addendum 1 (CSA1), Adopted 26 June 2008	Controller- CSA1	C.2	
8	Core Specification Version 3.0, Adopted 21 April 2009	Core 3.0	C.1	
9	Core Specification Version 4.0, Adopted 30 June 2010	Core 4.0	C.1	
10	Core Specification Addendum 2 (CSA2), Adopted 27 Dec 2011	Controller- CSA2	C.3	
11	Core Specification Addendum 3 (CSA3), Adopted 24 July 2012	Controller- CSA3	C.4	
12	Core Specification Addendum 4 (CSA4), Adopted 19 February 2013	Controller- CSA4	C.5	
13	Core Specification Version 4.1, Adopted 03 December 2013	Core 4.1	C.1	

Item	Feature	Reference	Status	Support
14	Core Specification Version 4.2, Adopted 02 December 2014	Core 4.2	C.1	
15	Core Specification Addendum 5 (CSA5), Adopted 01 December 2015	Controller- CSA5	C.6	
16	Core Specification Version 5.0. Adopted 06 December 2016	Core 5.0	C.1	
17	Core Erratum 10734 Pairing Updates	Erratum 10734	C.7	

C.1: Mandatory to support only one Controller Core Specification Version.

C.2: Optional IF (21/3 "Core 2.0" OR 21/4 "2.0 + EDR" OR 21/5 "Core 2.1" OR 21/6 "Core 2.1 + EDR") is supported, otherwise Excluded.

C.3: Optional IF (21/5 "Core 2.1" OR 21/6 "Core 2.1 + EDR" OR 21/8 "Core 3.0" OR 21/9 "Core 4.0") is supported, otherwise Excluded.

C.4: Optional IF ((21/5 "Core 2.1" OR 21/6 "Core 2.1 + EDR" OR 21/8 "Core 3.0" OR 21/9 "Core 4.0") AND 21/10 "CSA2") is supported, otherwise Excluded.

C.5: Optional IF ((21/5 "Core 2.1" OR 21/6 "Core 2.1 + EDR" OR 21/8 "Core 3.0" OR 21/9 "Core 4.0") AND 21/11 "CSA3") is supported, otherwise Excluded.

C.6: Optional IF ((21/9 "Core 4.0" AND 21/11 "CSA3") OR 21/13 "Core 4.1" OR 21/14 "Core 4.2") is supported, otherwise Excluded.

C.7: Excluded IF (21/3 "Core 2.0" OR 21/4 "Core 2.0 + EDR") is supported, otherwise Mandatory.

Table 22: EDR Features

Item	Feature	Reference	Status	Support
1	EDR for asynchronous transports (single slot)	Core 2.0 + EDR or later	C.1	
2	EDR for asynchronous transports (multi-slot)	Core 2.0 + EDR or later	C.1	
3	EDR for synchronous transports (Core 2.x)	Core 2.0 + EDR and Core 2.1 + EDR	C.1, C.3	
4	EDR for synchronous transports (Core 3.0 or later)	CSA1 and 3.0 + HS or later	C.1, C.2	

C.1: Mandatory to support at least one IF a BR/EDR Controller Core supporting + EDR (21/4 "Core 2.0 + EDR" OR 21/6 "Core 2.1 + EDR") is supported; Mandatory to support at least one IF an AMP Controller Core supporting + HS (41/1 "Core 3.0 + HS" or 41/2 "CSA2") is supported, otherwise Optional.

C.2: Optional IF (21/7 "CSA1" OR 21/8 "Core 3.0" OR 21/9 "Core 4.0" OR 21/13 "Core 4.1" OR 21/14 "Core 4.2" OR 21/16 "Core 5.0") is supported, otherwise Excluded.

C.3: Optional IF (21/3 "Core 2.0" OR 21/4 "Core 2.0 + EDR" OR 21/5 "BR/EDR Core 2.1" OR 21/6 "Core 2.1 + EDR") is supported, otherwise Excluded.

2.1 BR/EDR Controller Specifications

In Table 23, the Supplier shall indicate support for any BR/EDR controller specifications. Multiple versions of an individual specification may exist. The specification version supported in each row shall be the one referenced in the column associated with the core specification version declared in Table 21. Unless otherwise indicated, the individual specification version is part of the core version in whose column it resides. Where support is indicated, unless otherwise specified, the supplier shall also provide the specific ICS document relevant to that specification.

Implementation supports the following Specification Parts:

Table 23: BR/EDR Controller Specification Parts

Item	Feature	Reference	Status	Support
		Versions 2.0 + EDR, 2.1 + EDR, 3.0 + HS, 4.0, 4.1, 4.2, 5.0		
1	Radio Specification (RF)	Vol. 2, Part A	C.1	
2	Baseband Specification (BB)	Vol. 2, Part B	C.1	
3	Link Manager Protocol (LMP)	Vol. 2, Part C	C.1	
4	Host Controller Interface Functional Specification (HCI)	Vol. 2, Part E	C.2	
5	Core Specification Addendum 1 (CSA1), Volume 0, Part B, Adopted June 26 2008	Vol. 0, Part B, Section 4.2	C.3	
6	Core Specification Addendum 2 (CSA2), Audio Architecture HCI Changes, Adopted 27 Dec 2011	Vol. 2, Part E	C.4	
7	Core Specification Addendum 3 (CSA3), MWS Coexistence Logical Signaling, HCI Coexistence Signaling, Adopted 10 July 2012	Vol. 0, Part B Vol. 2, Part E Vol. 7, Part A	C.5	
8	Core Specification Addendum 4 (CSA4), Connectionless Slave Broadcast, Adopted 19 February 2013	Vol. 1, Part A Vol. 1, Part B Vol. 2, Part B Vol. 2, Part C Vol. 2, Part E Vol. 2, Part F Vol 2, Part G Vol. 3, Part C	C.6	

Item	Feature	Reference	Status	Support
9	Core Specification Addendum 4 (CSA4), Triggered Clock Capture, Adopted 19 February 2013	Vol. 2, Part E	C.6	
10	Core Specification Addendum 4 (CSA4), eSCO Reserved Slot Clarifications, Adopted 19 February 2013	Vol. 2, Part B	C.7	

C.1: Mandatory IF ((11/1 “End Product” OR 11/3 “Controller Subsystem”) AND (12/1 “BR – Controller” OR 12/3 “EDR – Controller” OR 12/8 “BR and LE Combined – Controller”)) is supported; Excluded if 11/6 “Profile Subsystem” is supported; otherwise Optional.

C.2: Mandatory IF (11/3 “Controller Subsystem” AND (12/1 “BR – Controller” OR 12/3 “EDR – Controller” OR 12/4 “HS – Controller” OR 12/8 “BR and LE Combined – Controller” OR 12/10 “HCI Core Configuration”)) is supported, otherwise Optional.

C.3: Mandatory IF 21/7 “CSA1” is supported, otherwise Excluded.

C.4: Optional IF 21/10 “CSA2” is supported, otherwise Excluded.

C.5: Optional IF 21/11 “CSA3” is supported, otherwise Excluded.

C.6: Optional IF (21/12 “CSA4” AND (NOT (21/5 “Core 2.1” OR 21/6 “Core 2.1 + EDR”))) is supported, otherwise Excluded.

C.7: Optional IF 21/12 “CSA4” is supported, otherwise Excluded

2.2 BR/EDR Controller Electrical Interfaces

In Table 24, the Supplier shall indicate support for any BR/EDR controller electrical interfaces. Multiple versions of an individual specification may exist. The specification version supported in each row shall be the one referenced in the column associated with the core specification version declared in Table 21. Unless otherwise indicated, the individual specification version is part of the core version in whose column it resides. Where support is indicated, unless otherwise specified, the supplier shall also provide the specific ICS document relevant to that specification.

Implementation supports the following Specification Parts:

Table 24: BR/EDR Controller Electrical Interfaces

Item	Feature	Reference	Status	Support
		Versions 2.0 + EDR, 2.1 + EDR, 3.0 + HS, 4.0, 4.1, 4.2, 5.0		
1	UART Transport Layer	Vol. 4, Part A*	O	
2	USB Transport Layer	Vol. 4, Part B*	O	
3	Secure Digital (SD) Transport Layer	Vol. 4, Part C*	O	
4	Three-wire UART Transport Layer (3-Wire)	Vol. 4, Part D*	O	

Item	Feature	Reference	Status	Support
5	Audio Architecture USB Changes (Introduced in Core Specification Addendum 2 (CSA 2))	Vol. 4, Part B*	C.1	
6	Wireless Coexistence Interface (WCI-1) Transport	Vol. 7, Part B*	C.2	
7	Wireless Coexistence Interface 2 (WCI-2) Transport	Vol. 7, Part C*	C.2	

*An ICS document to detail the support of this item further does not exist.

C.1: Optional if (21/10 "CSA2" AND 24/2 "USB Transport Layer") is supported, otherwise Excluded.

C.2: Excluded IF 21/3 "Core 2.0" is supported; Excluded IF NOT (24/1 "UART Transport Layer") is supported; Optional IF (21/5 "Core 2.1" OR 21/6 "Core 2.1 + EDR" OR 21/8 "Core 3.0" OR 21/9 "Core 4.0") AND (21/11 "CSA3" AND 23/7 "Controller Spec Parts: CSA3") is supported; otherwise Optional.

2.3 LE Controller Specifications

In Table 25, the Supplier shall indicate support for any LE controller specifications. Multiple versions of an individual specification may exist. The specification version supported in each row shall be the one referenced in the column associated with the core specification version declared in Table 21. Unless otherwise indicated, the individual specification version is part of the core version in whose column it resides. Where support is indicated, unless otherwise specified, the supplier shall also provide the specific ICS document relevant to that specification.

Implementation supports the following Specification Parts:

Table 25: LE Controller Specification Parts

Item	Feature	Reference	Status	Support
		Versions 4.0, 4.1, 4.2, 5.0		
1	Physical Layer Specification (RF PHY)	Vol. 6, Part A	C.1	
2	Link Layer Specification (LL)	Vol. 6, Part B	C.1	
3	Core Specification Addendum 3 (CSA3), LE Errata, Adopted 10 July 2012	CSA3	C.2	
4	Core Erratum 10734 Pairing Updates	Erratum 10734	C.3	

C.1: Mandatory IF ((11/1 "End Product" OR 11/3 "Controller Subsystem") AND (12/6 "LE – Controller" OR 12/8 "BR and LE Combined – Controller")) is supported; Excluded IF 11/6 "Profile Subsystem" is supported; otherwise Optional.

C.2 Mandatory IF ((12/6 "LE – Controller" OR 12/8 "BR and LE Combined – Controller") AND 21/11 "CSA3") are supported, otherwise Excluded.

C.3: Excluded IF ("4.0" OR "4.1"), otherwise Mandatory.



3 Core Host

If providing any Host functionality, the Supplier shall indicate support for one Bluetooth specification in Table 31.

Table 31: Host Core Specification

Prerequisite: NOT (11/6 “Controller Subsystem” OR 11/6 “Profile Subsystem”)

Item	Feature	Reference	Status	Support
1	Item no longer used	N/A	N/A	N/A
2	Item no longer used	N/A	N/A	N/A
3	Item no longer used	N/A	N/A	N/A
4	Core Specification Version 2.0 + EDR, Adopted 4 Nov 2004	Core 2.0 + EDR	C.1	
6	Core Specification Version 2.1 + EDR, Adopted 26 July 2007	Core 2.1 + EDR	C.1	
7	Core Specification Addendum 1 (CSA1), Volume 3, Part A, Adopted 26 June 2008	Host- CSA1	C.2	
8	Core Specification Version 3.0, Adopted 21 April 2009	Core 3.0	C.1	
9	Core Specification Version 3.0 + HS, Adopted 21 April 2009	Core 3.0 + HS	C.1	
10	Core Specification Version 4.0, Adopted 30 June 2010	Core 4.0	C.1	
10a	Core Specification Version 4.0 + HS, Adopted 30 June 2010	Core 4.0 + HS	C.1	
11	Core Specification Addendum 2 (CSA2), Adopted 27 Dec 2011	CSA2	C.3	
12	Core Specification Addendum 3 (CSA3), Adopted 24 July 2012	CSA3	C.4	
13	Core Specification Addendum 4 (CSA4), Adopted 19 February 2013	CSA4	C.5	

Item	Feature	Reference	Status	Support
14	Core Specification Version 4.1, Adopted 03 December 2013	Core 4.1	C.1	
15	Core Specification Version 4.1 + HS, Adopted 03 December 2013	Core 4.1 + HS	C.1	
16	Core Spec Version 4.2, Adopted 02 December 2014	Core 4.2	C.1	
17	Core Spec Version 4.2 + HS, Adopted 02 December 2014	Core 4.2 + HS	C.1	
18	Core Specification Version 5.0. Adopted 06 December 2016	Core 5.0	C.1	

C.1: Mandatory to support one and only one Host Core Specification Version.

C.2: Optional IF 31/4 "Core 2.0 + EDR" OR 31/6 "Core 2.1 + EDR" is supported, otherwise Excluded.

C.3: Optional IF 31/10 "Core 4.0" OR 31/10a "Core 4.0 + HS" is supported, otherwise Excluded.

C.4: Optional IF (31/10 "Core 4.0" OR 31/10a "Core 4.0 + HS") AND 31/11 "CSA 2" is supported, otherwise Excluded.

C.5: Optional IF (31/6 "Core 2.1 + EDR" OR 31/8 "Core 3.0" OR 31/9 "Core 3.0 + HS" OR (31/10 "Core 4.0" OR 31/10a "Core 4.0 + HS" AND 31/12 "CSA3")) is supported, otherwise Excluded.

3.1 Core Host Specifications

In Table 32, the Supplier shall indicate support for any core host specifications. Multiple versions of an individual specification may exist. The specification version supported in each row shall be the one referenced in the column associated with the core specification version declared in Table 31. Unless otherwise indicated, the individual specification version is part of the core version in whose column it resides. Where support is indicated, unless otherwise specified, the supplier shall also provide the specific ICS document relevant to that specification.

Implementation supports the following Specification Parts:

Table 32: Host Specification Parts

Item	Feature	Reference	Status	Support
		Versions 4.0, 4.1, 4.2, 5.0		
1	Logical Link Control and Adaptation Protocol (L2CAP)	Vol. 3, Part A	C.1	
2	Service Discovery Protocol (SDP)	Vol. 3, Part B	C.3	
3	Generic Access Profile (GAP)	Vol. 3, Part C	C.3	

Item	Feature	Reference	Status	Support
4	Host Controller Interface Functional Specification (HCI)	Vol. 2, Part E	C.4	
5	Core Specification Addendum 1 (CSA1), Adopted 26 June 2008	Vol. 3, Part A	C.1	
6	AMP Manager Protocol (A2MP)	Vol. 3, Part E	C.5	
7	Core Specification Addendum 2 (CSA2), Limited Discovery Time Changes, Adopted 27 Dec 2011	CSA2	C.2	
8	Core Specification Addendum 2 (CSA2), EIR and AD Data Types in GAP Changes, Adopted 27 Dec 2011	CSA3	C.2	
9	No Longer Used			
10	No Longer Used			
11	Core Specification Addendum (CSA4), Connectionless Slave Broadcast, Adopted 19 February 2013	Vol. 3, Part C	C.7	
12	Core Specification Addendum (CSA4), Unencrypted UCD, Adopted 19 February 2013	Vol. 3, Part A	C.7	
13	No Longer Used			
14	Core Specification Supplement 7 (CSSv7), Adopted 6 December 2016	CSSv7	C.8	

C.1: Mandatory to support only one of (32/1 "L2CAP" OR 32/5 "CSA1"). IF 31/7 "Host Core: CSA1" is supported then 32/5 "CSA1" shall be supported; otherwise 32/1 "L2CAP" shall be supported.

C.2: Mandatory IF ((31/10 "Host Core: Core 4.0" OR 31/10a "Host Core: Core 4.0 + HS") AND 31/11 "CSA2") is supported, otherwise Excluded.

C.3: Mandatory IF ((11/1 "End Product" OR 11/2 "Host Subsystem") AND (12/2 "BR – Host" OR 12/9 "BR and LE Combined – Host")) is supported, otherwise Optional.

C.4: Mandatory IF (11/2 "Host Subsystem" AND (12/2 "BR – Host" OR 12/9 "BR and LE Combined – Host" OR 12/5 "HS – Host")) is supported, otherwise Optional.

C.5: Mandatory IF ((11/1 "End Product" OR 11/2 "Host Subsystem") AND (12/5 "HS – Host")) is supported, otherwise Optional.

C.7: Optional IF (31/13 "Host Core: CSA3" AND (NOT (31/6 "Host Core: Core 2.1 + EDR" OR 31/7 "Host Core: CSA1"))) is supported, otherwise Excluded.

C.8: Optional IF (((31/10 "Core 4.0" OR 31/10a "Core 4.0+HS") AND 31/11 "CSA2") OR 31/14 "Core 4.1" OR 41/15 "Core 4.1+HS" OR 31/16 "Core 4.2" OR 31/17 "Core 4.2+HS" OR 31/18 "Core 5.0") is supported, otherwise Excluded

3.2 Host Electrical Interfaces

In Table 33, the Supplier shall indicate support for any core host electrical interfaces. Multiple versions of an individual specification may exist. The specification version supported in each row shall be the one referenced in the column associated with the core specification version declared in Table 21. Unless otherwise indicated, the individual specification version is part of the core version in whose column it resides. Where support is indicated, unless otherwise specified, the supplier shall also provide the specific ICS document relevant to that specification.

Implementation supports the following Specification Parts:

Table 33: BR/EDR Core Host Electrical Interfaces

Item	Feature	Reference	Status	Support
		Versions 4.0, 4.1, 4.2, 5.0		
1	UART Transport Layer	Vol. 4, Part A*	O	
2	USB Transport Layer	Vol. 4, Part B*	O	
3	Secure Digital (SD) Transport Layer	Vol. 4, Part C*	O	
4	Three-wire UART Transport Layer (3-Wire)	Vol. 4, Part D*	O	
5	Core Specification Addendum 2 (CSA2), Audio Architecture USB Changes	Vol. 4, Part B*	C.1	
6	Core Specification Addendum 3 (CSA3), Wireless Coexistence Interface (WCI-1) Transport	Vol. 7, Part B*	C.2	
7	Core Specification Addendum 3 (CSA3), Wireless Coexistence Interface 2 (WCI-2) Transport	Vol. 7, Part C*	C.2	

* An ICS document to detail the support of this item further does not exist.

C.1: Optional IF (31/11 “Host Core: CSA2” AND 33/2 “USB Transport Layer”) is supported, otherwise Excluded.

C.2: Optional IF (31/12 “Host Core: CSA3” AND 33/1 “UART Transport Layer”) is supported, otherwise Excluded.

3.3 LE Host Specification Parts

In Table 34, the Supplier shall indicate support for any LE host specifications. Multiple versions of an individual specification may exist. The specification version supported in each row shall be the one referenced in the column associated with the core specification version declared in Table 21. Unless otherwise indicated, the individual specification version is part of the core



version in whose column it resides. Where support is indicated, unless otherwise specified, the supplier shall also provide the specific ICS document relevant to that specification.

Implementation supports the following Specification Parts:

Table 34: LE Host Specification Parts

Item	Feature	Reference	Status	Support
		Versions 4.0, 4.1, 4.2, 5.0		
1	Logical Link Control and Adaptation Protocol (L2CAP)	Vol. 6, Part A	C.5	
2	Generic Access Profile (GAP)	Vol. 3, Part C	C.1	
3	Attribute Protocol (ATT)	Vol. 3, Part F	C.1	
4	Generic Attribute Profile (GATT)	Vol. 3, Part G	C.1	
5	Security Manager (SM)	Vol. 3, Part H	C.1	
6	Core Specification Addendum 3 (CSA3), LE Errata, GAP Changes, ATT Changes, Adopted 10 July 2012	CSA3	C.2	
7	No Longer Used			
8	No Longer Used			
9	Core Specification Addendum 4 (CSA4), Fast Advertising Interval, Adopted 19 February 2013	Vol. 3, Part C	C.3	
10	No Longer Used			
11	Core Specification Supplement 7 (CSSv7), Adopted 6 December 2016	CSSv7	C.4	
12	Core Specification Addendum 6 (CSA6)	CSA6	C.6	
13	Core Erratum 10734 Pairing Updates	Erratum 10734	C.7	

C.1: Mandatory IF (11/2 “Host Subsystem” OR 11/3 “Controller Subsystem”) AND (12/7 “LE – Host” OR 12/9 “BR and LE Combined – Host”) are supported, otherwise Optional

C.2: Mandatory IF 31/12 “Host Core: CSA3” is supported, otherwise Excluded.

C.3: Mandatory IF (31/13 “Host Core: CSA4” AND (31/10 “Host Core: Core 4.0” OR 31/10a “Host Core: Core 4.0 + HS”) AND 31/12 “Host Core: CSA3”) is supported, otherwise Excluded.

- C.4: Optional IF (((31/10 "Core 4.0" OR 31/10a "Core 4.0+HS") AND 31/11 "CSA2") OR 31/14 "Core 4.1" OR 31/15 "Core 4.1+HS" OR 31/16 "Core 4.2" OR 31/17 "Core 4.2+HS" OR 31/18 "Core 5.0") is supported, otherwise Excluded.
- C.5: Mandatory IF (11/2 "Host Subsystem" OR 11/3 "Controller Subsystem") AND (12/7 "LE – Host" OR 12/9 "BR and LE Combined – Host") AND (GAP 5/3 "Peripheral LE-Only" OR GAP 38/3 "Peripheral BR/EDR/LE" OR GAP 5/4 "Central LE-Only" OR GAP 38/4 "Central BR/EDR/LE") are supported, otherwise Optional.
- C.6: Mandatory IF (11/6 "Profile Subsystem" OR 11/4 "Component (Tested)" OR 11/5 "Component (Non-Tested)") AND (((31/10 "Host Core: Core 4.0" OR 31/10a "Host Core: Core 4.0 + HS") AND (31/12 "Host Core: CSA3" OR 31/13 "Host Core: CSA4")) OR 31/14 "Host Core: Core 4.1" OR 31/15 "Host Core: Core 4.1 + HS" OR 31/16 "Host Core: Core 4.2" OR 31/17 "Host Core: Core 4.2 + HS" OR 31/18 "Host Core: Core 5.0") is supported, otherwise Excluded.
- C.7: Excluded IF (31/10 "Host Core: Core 4.0" OR 31/10a "Host Core: Core 4.0 + HS" OR 31/14 "Host Core: Core 4.1"), otherwise Mandatory.

4 AMP Controller

If providing any AMP Controller functionality, the Supplier shall indicate support for one Bluetooth specification in Table 41.

Table 41: AMP Controller Core Specification

Item	Feature	Reference	Status	Support
1	Core Specification Version 3.0 + HS, Adopted 21 April 2009	N/A	C.1	
2	Core Specification Addendum 2 (CSA2), 802.11 Protocol Adaptation Layer (802.11 PAL), Adopted 27 Dec 2011	N/A	C.1	

C.1: Mandatory to support only one of (41/1 “Core 3.0 + HS” OR 41/2 “CSA2”) IF 12/4 “HS – Controller” is supported; Excluded IF (21/3 “Core 2.0” OR 21/4 “Core 2.0 + EDR”) is supported; otherwise Optional.

4.1 AMP Controller Specifications

In Table 42, the Supplier shall indicate support for any AMP controller specifications. Multiple versions of an individual specification may exist. The specification version supported in each row shall be the one referenced in the column associated with the core specification version declared Table 21. Unless otherwise indicated, the individual specification version is part of the core version in whose column it resides. Where support is indicated, unless otherwise specified, the supplier shall also provide the specific ICS document relevant to that specification.

Implementation supports the following Specification Parts:

Table 42: AMP Controller Specification Parts

Item	Feature	Reference	Status	Support
		Versions. 3.0 + HS, 4.0 + HS, 4.1 + HS, 4.2 + HS, 5.0		
1	802.11 Protocol Adaptation Layer (802.11 PAL)	Vol. 5, Part A	C.1	
2	802.11 MAC/PHY	IEEE 802.11-2007	C.2	
3	Core Specification Addendum 2 (CSA2), 802.11 Protocol Adaptation Layer (802.11 PAL)	CSA2	C.3	

Item	Feature	Reference	Status	Support
4	802.11 MAC/PHY	IEEE 802.11-2007, Amendment 1 (Radio Resource Measurement), Amendment 2 (Fast BSS Transition), Amendment 3 (3650 MHz – 3700 MHz Operation in US), Amendment 4 (Protected Management Frames), and Amendment 5 (Enhancements for Higher Throughput)	C.4	

C.1: Mandatory if 41/1 “Core 3.0 + HS” is supported, otherwise Excluded.

C.2: Mandatory if (41/1 “Core 3.0 + HS” AND (21/6 “Core 2.1 + EDR” OR 21/8 “Core 3.0” OR 21/9 “Core 4.0” OR 21/13 “Core 4.1” OR SUM ICS 21/14 “Core 4.2” OR 21/16 “Core 5.0”)) is supported, otherwise Optional. (Mandatory for End Products or Controller Subsystems with AMP Controller and BR/EDR Controller 5.0, 4.2, 4.1, 4.0, 3.0 or 2.1 + EDR)

C.3: Mandatory if 41/2 “CSA2” is supported, otherwise Excluded.

C.4: Mandatory if (41/1 “Core 3.0 + HS” AND (21/6 “Core 2.1 + EDR” OR 21/8 “Core 3.0” OR 21/9 “Core 4.0” OR 21/13 “Core 4.1” OR SUM ICS 21/14 “Core 4.2” OR 21/16 “Core 5.0”)) is supported, otherwise Optional. (Mandatory for End Products or Controller Subsystems with AMP Controller and BR/EDR Controller 5.0, 4.2, 4.1, 4.0, 3.0 or 2.1 + EDR)

4.2 AMP Controller Electrical Interfaces

In Table 43, the Supplier shall indicate support for any core controller electrical interfaces. Multiple versions of an individual specification may exist. The specification version supported in each row shall be the one referenced in the column associated with the core specification version declared in Table 41. Unless otherwise indicated, the individual specification version is part of the core version in whose column it resides. Where support is indicated, unless otherwise specified, the supplier shall also provide the specific ICS document relevant to that specification.

Implementation supports the following Specification Parts:

Table 43: AMP Controller Electrical Interfaces

Item	Feature	Reference	Status	Support
		Versions. 3.0 + HS, 4.0 + HS, 4.1 + HS, 4.2 + HS, 5.0		
1	Vol. 4, Part A*	UART Transport Layer	O	
2	Vol. 4, Part B*	USB Transport Layer	O	

Item	Feature	Reference	Status	Support
3	Vol. 4, Part C*	Secure Digital (SD) Transport Layer	O	
4	Vol. 4, Part D*	Three-wire UART Transport Layer (3- wire)	O	

* An ICS document to detail the support of this item further does not exist.

5 Application Protocols and Profile Specifications

In Table 51 and 52, the Supplier shall indicate support for any protocol, profile and service specifications. Where support is indicated, unless otherwise specified, the supplier shall also complete the ICS document relevant to that specification.

Table 51: Application Protocols and Profile Specifications

Item	Specification Part Name	Support
3DSP 1.0	3D Synchronization Profile (3DSP)	
A2DP 1.0	Advanced Audio Distribution Profile (A2DP)	
A2DP 1.2	Advanced Audio Distribution Profile (A2DP)	
A2DP 1.3	Advanced Audio Distribution Profile (A2DP)	
AVCTP 1.0	Audio Video Control Transport Protocol (AVCTP)	
AVCTP 1.2	Audio Video Control Transport Protocol (AVCTP)	
AVCTP 1.3	Audio Video Control Transport Protocol (AVCTP)	
AVCTP 1.4	Audio Video Control Transport Protocol (AVCTP)	
AVDTP 1.0	Audio Video Distribution Transport Protocol (AVDTP)	
AVDTP 1.2	Audio Video Distribution Transport Protocol (AVDTP)	
AVDTP 1.3	Audio Video Distribution Transport Protocol (AVDTP)	
AVRCP 1.0	Audio Video Remote Control Profile (AVRCP)	
AVRCP 1.3	Audio Video Remote Control Profile (AVRCP)	
AVRCP 1.4	Audio Video Remote Control Profile (AVRCP)	
AVRCP 1.5	Audio Video Remote Control Profile (AVRCP)	
AVRCP 1.6	Audio Video Remote Control Profile (AVRCP)	
BIP 1.0	Basic Imaging Profile (BIP)	
BIP 1.1	Basic Imaging Profile (BIP)	
BIP 1.2	Basic Imaging Profile (BIP)	
BNEP 1.0	Bluetooth Network Encapsulation Protocol (BNEP)	
BPP 1.0	Basic Printing Profile (BPP)	
BPP 1.2	Basic Printing Profile (BPP)	
BNEP	Bluetooth Network Encapsulation Protocol	



Item	Specification Part Name	Support
CTN 1.0	Calendar, Tasks, and Notes Profile	
DI 1.2	Device Identification Profile (DI)	
DI 1.3	Device Identification Profile (DI)	
DUN 1.1	Dial-Up Networking Profile (DUN)	
DUN 1.2	Dial-Up Networking Profile (DUN)	
FTP 1.1	File Transfer Profile (FTP)	
FTP 1.2	File Transfer Profile (FTP)	
FTP 1.3	File Transfer Profile (FTP)	
GAVDP 1.0	Generic Audio/Video Distribution Profile (GAVDP)	
GAVDP 1.2	Generic Audio/Video Distribution Profile (GAVDP)	
GAVDP 1.3	Generic Audio/Video Distribution Profile (GAVDP)	
GNSS 1.0	Global Navigation Satellite System Profile (GNSS)	
GOEP 1.1	Generic Object Exchange Profile (GOEP)	
GOEP 2.0	Generic Object Exchange Profile (GOEP)	
GOEP 2.1	Generic Object Exchange Profile (GOEP)	
GPP 1.0	Generic PIM Profile	
HCRP 1.0	Hardcopy Cable Replacement Profile (HCRP)	
HCRP 1.2	Hardcopy Cable Replacement Profile (HCRP)	
HDP 1.0	Health Device Profile (HDP)	
HDP 1.1	Health Device Profile (HDP)	
HFP 1.5	Hands-Free Profile (HFP)	
HFP 1.6	Hands-Free Profile (HFP)	
HFP 1.7	Hands-Free Profile (HFP)	
HID 1.0	Human Interface Device Profile (HID)	
HID 1.1	Human Interface Device Profile (HID)	
HSP 1.1	Headset Profile (HSP)	
HSP 1.2	Headset Profile (HSP)	



Item	Specification Part Name	Support
MAP 1.0	Message Access Profile (MAP)	
MAP 1.1	Message Access Profile (MAP)	
MAP 1.2	Message Access Profile (MAP)	
MAP 1.3	Message Access Profile (MAP)	
MCAP 1.0	Multi-Channel Adaptation Protocol (MCAP)	
MPS 1.0	Multi-Profile Specification	
OBEX 1.1	IrDA Interoperability (OBEX)	
OBEX 2.0	IrDA Interoperability (OBEX)	
OPP 1.1	Object Push Profile (OPP)	
OPP 1.2	Object Push Profile (OPP)	
PAN 1.0	Personal Area Network Profile (PAN)	
PBAP 1.0	Phone Book Access Profile (PBAP)	
PBAP 1.1	Phone Book Access Profile (PBAP)	
PBAP 1.2	Phone Book Access Profile (PBAP)	
RFCOMM 1.1	RFCOMM with TS 07.10	
RFCOMM 1.2	RFCOMM with TS 07.10	
SAP 1.0	SIM Access Profile (SAP)	
SAP 1.1	SIM Access Profile (SAP)	
SDAP 1.1	Service Discovery Application Profile (SDAP)	
SPP 1.1	Serial Port Profile (SPP)	
SPP 1.2	Serial Port Profile (SPP)	
SYNC 1.1	Synchronization Profile (SYNC)	
SYNC 1.2	Synchronization Profile (SYNC)	
VDP 1.0	Video Distribution Profile (VDP)	
VDP 1.1	Video Distribution Profile (VDP)	

Table 52: GATT-based Profiles and Services

Item	Specification Part Name	Support
ANP 1.0	Alert Notification Profile	
ANS 1.0	Alert Notification Service	
AIOP 1.0	Automation IO Profile	
AIOS 1.0	Automation IO Service	
BAS 1.0	Battery Service	
BCS 1.0	Body Composition Service	
BLP 1.0	Blood Pressure Profile	
BLS 1.0	Blood Pressure Service	
BMS 1.0	Bond Management Service	
CGMP 1.0	Continuous Glucose Profile	
CGMS 1.0	Continuous Glucose Service	
CPP 1.0	Cycling Power Profile	
CPP 1.1	Cycling Power Profile	
CPS 1.0	Cycling Power Service	
CPS 1.1	Cycling Power Service	
CSCP 1.0	Cycling Speed and Cadence Profile	
CSCS 1.0	Cycling Speed and Cadence Service	
CTS 1.0	Current Time Service	
CTS 1.1	Current Time Service	
DIS 1.1	Device Information Service	
ESP 1.0	Environmental Sensing Profile	
ESS 1.0	Environmental Sensing Service	
FMP 1.0	Find Me Profile	
GLP 1.0	Glucose Profile	
GLS 1.0	Glucose Service	
HIDS 1.0	HID Service	

Item	Specification Part Name	Support
HOGP 1.0	HID over GATT Profile	
HPS 1.0	HTTP Proxy Service	
HRP 1.0	Heart Rate Profile	
HRS 1.0	Heart Rate Service	
HTP 1.0	Health Thermometer Profile	
HTS 1.0	Health Thermometer Service	
IAS 1.0	Immediate Alert Service	
IPS 1.0	Indoor Positioning Service	
IPSP 1.0	Internet Protocol Support Profile	
LLS 1.0	Link Loss Service	
LNP 1.0	Location and Navigation Profile	
LNS 1.0	Location and Navigation Service	
NDCS 1.0	Next DST Change Service	
OTP 1.0	Object Transfer Profile	
OTS 1.0	Object Transfer Service	
PASP 1.0	Phone Alert Status Profile	
PASS 1.0	Phone Alert Status Service	
PLXP 1.0	Pulse Oximeter Profile	
PLXS 1.0	Pulse Oximeter Service	
PXP 1.0	Proximity Profile	
RSCP 1.0	Running Speed and Cadence Profile	
RSCS 1.0	Running Speed and Cadence Service	
RTUS 1.0	Reference Time Update Service	
SCPP 1.0	Scan Parameters Profile	
SCPS 1.0	Scan Parameters Service	
TDS 1.0	Transport Discovery Service	
TIP 1.0	Time Profile	



Item	Specification Part Name	Support
TPS 1.0	Tx Power Service	
UDS 1.0	User Data Service	
WSP 1.0	Weight Scale Profile	
WSS 1.0	Weight Scale Service	