



Project Details

Project Name	bluez host
Product Type	Host Subsystem
TCRL Version:	TCRL 2019-2
Referenced Qualified Design(s)	
Previously Qualified Design Used in this Qualification(s)	
Listing Date	2020-10-21
Declaration ID	D052028

Product Listing(s)

Name	Website	Category	Publish Date	Model Number	Description
XRadio BlueZ Host		Unique Products	11/12/2020 12:00:00 AM	XRadio BlueZ Host	XRadio BlueZ Host Subsystem

Member Company

XRadio Technology Co., Ltd.

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Country	China
Postal Code	

Complete the Project and Submit Product(s) for Qualification

By typing my name or other symbol of my signature into the "Signature" field below, I agree on behalf of XRadio Technology Co., Ltd. ("Company") to [Bluetooth Launch Studio Terms of Use](#), and I make the following representations and warranties personally and on behalf of Company. The following representations and warranties, together with all project information and the [Bluetooth Launch Studio Terms of Use](#), are the Supplier Declaration of Conformity and Declaration of Compliance described in the [Program Reference Document \(PRD\)](#) and [Declaration Process Document \(DPD\)](#).

- ☒ I am authorized by Company to submit all of the information included in this project and all information is complete and accurate.
- ☒ Company does not, by its governing documents or other applicable law, require more than one signatory, a stamp or seal, or a witnessed signature to be legally bound.
- ☒ I agree on behalf of Company to contract in English and electronically, and adopt the characters and symbols input in the signature field below as my signature, with the same effect as an ink signature.
- ☒ The products included in this project are owned and distributed by Company under a Product name that identifies Company as the source of the Product. Company has the right to use and reference all Qualified Designs referenced in the project, and the products and referenced Qualified Designs comply with the version of the Bluetooth Specification identified in the project submission.
- ☒ The product(s) included in this project and the corresponding Qualified Designs comply with the [Bluetooth Launch Studio Terms of Use](#).

If any of the foregoing is not correct or you do not agree, you must exit this form without signing.

Signature:

Tang Zhibin

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BLUETOOTH[®] LAUNCH STUDIO TERMS OF USE

Last Updated: February 25, 2021.

These Bluetooth Launch Studio Terms of Use (“**Launch Studio Terms**”) are a supplement to the [Bluetooth SIG Website Terms of Use](#) (“**WTOU**”) and together the Launch Studio Terms and WTOU are a legal agreement (collectively the “**Bluetooth Terms**”) between you and Bluetooth SIG, Inc., a Delaware corporation (“**Bluetooth SIG**”) that governs your access to and use of the Bluetooth Launch Studio (the “**Launch Studio Tool**”).

The Launch Studio Tool is a Service (as defined in the WTOU) offered by Bluetooth SIG. Terms used but not defined in these Launch Studio Terms have the meanings ascribed to them in the WTOU. In the event of a conflict between these Launch Studio Terms and the WTOU, these Launch Studio Terms will govern.

PLEASE READ THE BLUETOOTH TERMS CAREFULLY. BY ACCESSING OR USING THE LAUNCH STUDIO TOOL AND/OR CLICKING TO INDICATE THAT YOU AGREE TO THE LAUNCH STUDIO TERMS, YOU REPRESENT THAT YOU ARE AUTHORIZED TO BIND THE ENTITY UNDER WHOSE BLUETOOTH SIG MEMBERSHIP YOU OBTAINED A USER ACCOUNT AND THAT YOU AND THAT MEMBER AGREE TO BE BOUND BY THE BLUETOOTH TERMS. IF YOU ARE NOT AUTHORIZED OR DO NOT AGREE TO THE BLUETOOTH TERMS, DO NOT ACCESS OR USE THE LAUNCH STUDIO TOOL OR CLICK TO INDICATE THAT YOU AGREE TO THESE LAUNCH STUDIO TERMS.

1. MEMBERSHIP ACCOUNT REQUIREMENT.

To access and use the Launch Studio Tool, you must have an Account (as defined in the WTOU) issued under the membership account of a current Bluetooth SIG member and log into the Launch Studio Tool with that Account. You acknowledge and agree that when you access the Launch Studio Tool that you are doing so on behalf of the member your Account is associated with (“**Member**”) and you represent and warrant that you are authorized by Member to access and use the Launch Studio Tool and provide Submissions (defined below) on Member’s behalf.

2. BLUETOOTH QUALIFICATION PROCESS.

The “**Bluetooth Qualification Process**” is the process created by Bluetooth SIG for qualifying Products. The Launch Studio Tool is the Bluetooth SIG tool designed to implement the Bluetooth Qualification Process. A “**Product**” means a product that:

- (a) if sold, is sold as a single item (consisting of software, firmware, drivers, applications, hardware, or a combination of some or all of the foregoing);
- (b) contains one or more Portions; and
- (c) if marketed, is marketed under a name and/or trademark that uniquely identifies Member as the source of the product. A “**Portion**” means hardware, software, or a combination of hardware and software that implements a Bluetooth Specification. If the hardware, software, or combination contains or consists of more than an implementation of the Bluetooth specification, the “**Portion**” is only the implementation of the Bluetooth Specification. “**Bluetooth Specification**” is defined in the Bylaws of Bluetooth SIG.

3. REPRESENTATIONS AND ACKNOWLEDGEMENTS.

- (a) You represent and warrant that you have permission to submit to Bluetooth SIG all information and materials (including design information, product information, test reports, and test results) that you provide through the Launch Studio Tool (“**Submissions**”) and that all Submissions are true, complete, and accurate.
- (b) You represent and warrant that you and Member will comply with the SIG Member Terms (as defined in the WTOU).
- (c) You represent and warrant that all Submissions that you make through the Launch Studio Tool and all Products listed in your Submissions comply with the SIG Member Terms (as defined in the WTOU) and the Bluetooth Specification(s) referenced in your Submission.

(d) You represent and warrant that the products referenced in your Submissions that you submit to the Bluetooth Qualification Process via the Launch Studio Tool will only be Products that, if marketed or distributed, are done so by Member under a name or trademark that uniquely identifies Member as the source of the Product.

(e) You acknowledge and agree that a product is not a Bluetooth Product under the Bluetooth Trademark License Agreement and you and Member will not market or distribute any product that uses any Bluetooth® trademark on it or in connection with any related marketing, promotion, or advertising unless you or Member have been notified by Bluetooth SIG that it has completed the Bluetooth Qualification Process (e.g., via a confirmation screen or email from Bluetooth SIG expressly stating that the Product has completed the Bluetooth Qualification Process).

4. FEES AND PAYMENT TERMS.

(a) Bluetooth SIG may charge you fees in connection with the Bluetooth Qualification Process including within the Launch Studio Tool and Submissions (e.g., declaration fees, etc.). The type and amount of fees may change at any time. You agree that Member will pay all fees required by Bluetooth SIG in accordance with the instructions provided within the Launch Studio Tool. Bluetooth SIG may accept credit card payments or, if offered within the Launch Studio Tool, may permit you to pay fees offline. If you choose to pay offline, you will pay the invoice issued to you by Bluetooth SIG, according to the terms stated in the invoice. If you provide credit card payment information, you agree that Bluetooth SIG or its third party payment processor may charge your credit card immediately. You acknowledge that, until Bluetooth SIG has processed your payment and received the funds, you and Member will not acquire any of the rights or benefits for those fees. All sales are final and all payments are non-refundable.

(b) If you receive a discount on any fees based on your Member's level of membership and your Member's membership level changes (e.g., the Member moves from an associate to an adopter level), you will no longer be entitled to receive the discount and any fees owed and any outstanding invoices from Bluetooth SIG as of the date of the membership level change will be increased to reflect the amount owed without the discount. Further, if you prepaid any declaration fees and received a discount and you have not used the declaration fees as of the date of the membership level change, you may not use the declaration fees unless you pay the difference between the then-current standard fee and the discounted fee previously paid.

(c) *Declaration Fees.* Member must pay a declaration fee prior to completion of the Bluetooth Qualification Process. Bluetooth SIG will issue a unique identification number confirming payment of the declaration fee ("**Declaration ID**") and Member must provide the Declaration ID in the Submission as proof of payment before completing the Bluetooth Qualification Process. Any declaration fees you pay are paid by you on behalf of Member regardless of the payment method or source of funds and proof of payment is evidenced by the issuance of a Declaration ID. If requested by Member, Bluetooth SIG may reassign, without notice to you, a Declaration ID from your user account to another user account under the Member's membership account. All Declaration IDs expire 12 months from the date of issuance unless the Bluetooth Qualification Process is completed prior to expiration. No declaration fees will be refunded. Declaration IDs are nontransferable and may not be transferred to another member.

5. CONFIDENTIALITY OF SUBMISSIONS.

You and the Bluetooth SIG agree that Submissions are Confidential Information subject to the Bluetooth SIG Confidentiality Policy even if you do not label the Submission "Confidential." Notwithstanding anything in the Bluetooth SIG Confidentiality Policy and except as described in the following sentence, you agree that Bluetooth SIG will treat your Submissions as confidential, including by not making them available through the searchable database on Bluetooth SIG's web site until the date that you have selected as the "listing date" within the Launch Studio Tool when you click to submit your Submission. Bluetooth SIG further agrees that

(a) if, when you submit a Submission, the "publish date" in your Submission is after the listing date, the following information will be treated as Member Confidential Information and not included in the searchable database on Bluetooth SIG's web site until the "publish date": product name, product number, category, subset ID (if applicable), publish date, and product description and

(b) the test plan and test evidence provided as part of your Submission will continue to be

treated as Member Confidential Information for the period of time required under the Bluetooth SIG Confidentiality Policy regardless of any listing date or publish date in the Submission. To the extent that this Section conflicts with the Bluetooth SIG Confidentiality Policy, this Section supersedes the Bluetooth SIG Confidentiality Policy with respect to Bluetooth SIG's obligations of confidentiality of Submissions.

6. RECORD KEEPING AND AUDIT.

You agree to maintain a complete copy of your Submissions as well as all supporting information and documentation related to each Product you submit for qualification through the Launch Studio Tool ("**Records**") in order to document your compliance with the SIG Member Terms and Bluetooth Specifications. You agree that Bluetooth SIG may request copies of Records relating to or pertaining to your Submissions and all Products referenced therein and you will provide copies of Records and permit Bluetooth SIG and its representatives to audit, examine, and make copies of or extracts from all Records (in whatever form they may be kept, whether written, electronic, or other) in order to verify the truth, accuracy, and completeness of your Submissions as well as compliance with the SIG Member Terms and Bluetooth Specifications. Bluetooth SIG will be responsible for the cost of any audit, unless the audit reveals that any Submission is incomplete or inaccurate or that you, Member, any of your Submissions, or any Product fails to comply with the SIG Member Terms or Bluetooth Specifications, in which case Member will reimburse Bluetooth SIG for the costs of the audit within 30 days after receiving Bluetooth SIG's request for reimbursement.

7. ADDITIONAL DISCLAIMERS.

The Launch Studio Tool is not a record-keeping or storage tool. You are responsible for backing up all of Your Content (as defined in the WTOU) submitted to the Launch Studio Tool. In addition to the disclaimers in the WTOU, Bluetooth SIG does not guarantee that Your Content will not be removed, damaged, corrupted, or lost.

Appendix A

Summary ICS

Table 21: Controller Core Configuration

Item	Capability	Reference	Support	Status	Comment
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Table 22: EDR Features

Item	Capability	Reference	Support	Status	Comment
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Table 31: Host Core Specification

Item	Capability	Reference	Support	Status	Comment
31/17	Core Spec Version 4.2, Adopted 02 December 2014	Core 4.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support one and only one Host Core Specification Version. IF 11/1 "End Product" OR 11/2 "Host Subsystem" is Supported, Mandatory to Support only one Host Core Spec version IF (11/4 "Component tested" OR 11/5 "Component non-tested") AND (ATT OR GAP OR GATT OR L2CAP OR SDP OR SM) is Supported, otherwise Excluded.

Table 34: LE Host Specification Parts

Item	Capability	Reference	Support	Status	Comment
34/13	Core Erratum 10734 Pairing Updates. Adopted 16 July 2018	Erratum 10734	C.7	<input checked="" type="checkbox"/>	C.7: Mandatory IF 31/17 "Core 4.2" OR 31/18 "Core 4.2+HS" OR 31/19 "Core 5.0" is Supported, otherwise Excluded. (Applicable as a separate item in addition to specifications adopted prior to this erratum, integrated in specifications adopted later)
34/15	Core Erratum 11838 Key Size Updates. Adopted 13 August 2019	Erratum 11838	C.9	<input checked="" type="checkbox"/>	C.9: Mandatory IF 31/17 "Core 4.2" OR 31/18 "Core 4.2 + HS" OR 31/19 "Core 5.0" OR 31/20 "Core 5.1" is Supported, otherwise Excluded. (Applicable as a separate item in addition to specifications adopted prior to this erratum, integrated in specifications adopted later)

Table 41: AMP Controller Core Specification

Item	Capability	Reference	Support	Status	Comment
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Table 42: AMP Controller Specification Parts

Item	Capability	Reference	Support	Status	Comment
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Table 51: Low Energy Controller Configuration

Item	Capability	Reference	Support	Status	Comment
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Table 52: Low Energy Host Core Specification

Item	Capability	Reference	Support	Status	Comment
52/1	Low Energy Host	Core 4.0 or Later	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory if PROD 3/3 or 3/4 or 3/5 is supported, otherwise Excluded.

Product Type

Table 1: Product Types

Item	Capability	Reference	Support	Status	Comment
1/4	Host Subsystem	Vol. 0 Part B	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support one and only one Product Type.

Table 2: Controller Core Configuration

Item	Capability	Reference	Support	Status	Comment
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Table 3: Host Core Configuration

Item	Capability	Reference	Support	Status	Comment
3/4	BR/LE Host	Vol. 0 Part B	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support only one Host Configuration. Optional if 1/2 or 1/3 is Supported.

4.0 Host Controller Interface

Table 1a: IUT Configuration

Item	Capability	Reference	Support	Status	Comment
1a/2	Host	[1] 1.0	C.0	<input checked="" type="checkbox"/>	C.0: Mandatory to support at least one of the defined IUT Configurations.

Table 1: -

Item	Capability	Reference	Support	Status	Comment
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Table 2: -

Item	Capability	Reference	Support	Status	Comment
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Table 3: -

Item	Capability	Reference	Support	Status	Comment
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Table 4: -

Item	Capability	Reference	Support	Status	Comment
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Table 5: -

Item	Capability	Reference	Support	Status	Comment
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Table 6: -

Item	Capability	Reference	Support	Status	Comment
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Table 7: -

Item	Capability	Reference	Support	Status	Comment
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Table 8: -

Item	Capability	Reference	Support	Status	Comment
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Table 10: -

Item	Capability	Reference	Support	Status	Comment
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Table 13: -

Item	Capability	Reference	Support	Status	Comment
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Item	Capability	Reference	Support	Status	Comment
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Table 14: -

Item	Capability	Reference	Support	Status	Comment
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Table 15: -

Item	Capability	Reference	Support	Status	Comment
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Table 16: -

Item	Capability	Reference	Support	Status	Comment
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Table 17: -

Item	Capability	Reference	Support	Status	Comment
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Table 20: -

Item	Capability	Reference	Support	Status	Comment
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Advanced Audio Distribution Profile

Table 1: Roles

Item	Capability	Reference	Support	Status	Comment
1/1	Source	[1] 2.2	C.1	☑	C.1: Mandatory to support at least one of the defined roles.
1/2	Sink	[1] 2.2	C.1	☑	C.1: Mandatory to support at least one of the defined roles.

Table 2: A2DP SRC Features

Item	Capability	Reference	Support	Status	Comment
2/1	Initiate Connection Establishment	[4] 4.1.1	M	☑	
2/2	Accept Connection Establishment	[4] 4.1.1	M	☑	
2/3	Initiate Start Streaming	[4] 4.1.2	M	☑	
2/4	Accept Start Streaming	[4] 4.1.2	M	☑	
2/5	Send Audio Stream	[1] 3.2.1	M	☑	
2/6	Initiate Connection Release	[4] 4.1.3	M	☑	
2/7	Accept Connection Release	[4] 4.1.3	M	☑	
2/10	SBC Encoder	[1] 4.3	M	☑	
2/14	SBC Configurations in 48 KHz sampling frequency rate	[1] 4.3.2.1	C.1	☑	C.1: At least one of the values shall be supported.

Table 2a: A2DP SRC - Major Profile Version (X.Y)

Item	Capability	Reference	Support	Status	Comment
2a/2	A2DP 1.2	A2DP 1.2	C.1	☑	C.1: Mandatory to support one and only one major profile version

Table 2b: A2DP SRC - Minor Profile Version (X.Y.Z)

Item	Capability	Reference	Support	Status	Comment
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Table 4: A2DP SNK Features

Prerequisite: A2DP 1/2

Item	Capability	Reference	Support	Status	Comment
4/2	Accept Connection Establishment	[4] 4.1.1	M	☑	
4/4	Accept Start Streaming	[4] 4.1.2	M	☑	
4/5	Receive Audio Stream	[1] 3.2.1	M	☑	
4/7	Accept Connection Release	[4] 4.1.3	M	☑	
4/10	SBC Decoder	[1] 4.3	M	☑	
4/13	SBC Configurations in 44.1 KHz sampling frequency rate	[1] 4.3.2.1	M	☑	
4/14	SBC Configurations in 48 KHz sampling frequency rate	[1] 4.3.2.1	M	☑	

Table 7a: A2DP SNK - Major Profile Version (X.Y)

Prerequisite: A2DP 1/2

Item	Capability	Reference	Support	Status	Comment
7a/2	A2DP 1.2	A2DP 1.2	C.1	☑	C.1: Mandatory to support one and only one major profile version

Table 7b: A2DP SNK - Minor Profile Version (X.Y.Z)

Prerequisite: A2DP 1/2

Item	Capability	Reference	Support	Status	Comment
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Table 3: Supported Codecs in SRC

Prerequisite: A2DP 1/1

Item	Capability	Reference	Support	Status	Comment
3/1	SBC encoder - E1 & E2	[1] 4.3 & Appendix B, [3] Appendix A	M	☑	

Table 3a: Supported Codec Features in SRC

Prerequisite: A2DP 3/1

Item	Capability	Reference	Support	Status	Comment
3a/1	Channel Mode – Mono	[1] 4.3.2.2	M	☑	
3a/2	Channel Mode – Dual Channel	[1] 4.3.2.2	C.1	☑	C.1: At least one of the values shall be supported.
3a/3	Channel Mode – Stereo	[1] 4.3.2.2	C.1	☑	C.1: At least one of the values shall be supported.
3a/4	Channel Mode – Joint Stereo	[1] 4.3.2.2	C.1	☑	C.1: At least one of the values shall be supported.
3a/5	Block Length 4	[1] 4.3.2.3	M	☑	
3a/6	Block Length 8	[1] 4.3.2.3	M	☑	
3a/7	Block Length 12	[1] 4.3.2.3	M	☑	
3a/8	Block Length 16	[1] 4.3.2.3	M	☑	
3a/10	Subbands – 8	[1] 4.3.2.4	M	☑	
3a/12	Allocation – Loudness	[1] 4.3.2.5	M	☑	

Table 5: Supported Codecs in SNK

Prerequisite: A2DP 1/2

Item	Capability	Reference	Support	Status	Comment
5/1	SBC decoder - D1 & D2	[1] 4.3 & Appendix B, [3] Appendix A	M	☑	

Table 5a: Supported Codec Features in SNK

Prerequisite: A2DP 5/1

Item	Capability	Reference	Support	Status	Comment
5a/1	Channel Mode - Mono	[1] 4.3.2.2	M	☑	
5a/2	Channel Mode - Dual Channel	[1] 4.3.2.2	M	☑	

5a/3	Channel Mode - Stereo	[1] 4.3.2.2	M	☑
5a/4	Channel Mode - Joint Stereo	[1] 4.3.2.2	M	☑
5a/5	Block Length 4	[1] 4.3.2.3	M	☑
5a/6	Block Length 8	[1] 4.3.2.3	M	☑
5a/7	Block Length 12	[1] 4.3.2.3	M	☑
5a/8	Block Length 16	[1] 4.3.2.3	M	☑
5a/9	Subbands - 4	[1] 4.3.2.4	M	☑
5a/10	Subbands - 8	[1] 4.3.2.4	M	☑
5a/11	Allocation - SNR	[1] 4.3.2.5	M	☑
5a/12	Allocation - Loudness	[1] 4.3.2.5	M	☑

Attribute Protocol

Table 1: Role

Item	Capability	Reference	Support	Status	Comment
1/1	Attribute Protocol Client	[1] ATT 1.1; [2] GAP 12	O	☑	
1/2	Attribute Protocol Server	[1] ATT 1.1; [2] GAP 12	M	☑	

Table 2: Transport Requirements

Item	Capability	Reference	Support	Status	Comment
2/2	Attribute Protocol Supported over LE	[1] ATT 1.3	C.2	☑	C.2: Mandatory IF (SUMICS 12/7 "Bluetooth Low Energy Core Host Configuration" OR SUMICS 12/9 "Bluetooth Basic Rate and Low Energy Combined Core Host Configuration"), otherwise Excluded.

Table 3: Attribute Protocol Client Messages

Item	Capability	Reference	Support	Status	Comment
3/1	Attribute Error Response	[1] ATT, 3.4.1.1	M	☑	
3/2	Exchange MTU Request	[1] ATT, 3.4.2.1	C.11	☑	C.11: Excluded IF (ATT 2/1 "Attribute Protocol Supported over BR/EDR (L2CAP fixed channel support)" OR ATT 2/3 "Attribute Protocol Supported (L2CAP fixed EATT PSM supported)") is supported, Mandatory IF GATT 3/1 "Exchange MTU" is supported, otherwise Optional.
3/3	Exchange MTU Response	[1] ATT, 3.4.2.2	C.1	☑	C.1: Excluded IF (ATT 2/1 "Attribute Protocol Supported over BR/EDR (L2CAP fixed channel support)" OR ATT 2/3 "Attribute Protocol Supported (L2CAP fixed EATT PSM supported)") is supported, Mandatory IF ATT 3/2 "Exchange MTU Request" is supported, otherwise Excluded.
3/4	Find Information Request	[1] ATT, 3.4.3.1	C.13	☑	C.13: Mandatory IF GATT 3/7 "Discover All Characteristic Descriptors" is supported, otherwise Optional.
3/5	Find Information Response	[1] ATT, 3.4.3.2	C.9	☑	C.9: Mandatory IF ATT 3/4 "Find Information Request" is supported, otherwise Excluded.
3/6	Find by Type Value Request	[1] ATT, 3.4.4.3	C.12	☑	C.12: Mandatory IF GATT 3/3 "Discover Primary Services by Service UUID" is supported, otherwise Optional.
3/7	Find by Type Value Response	[1] ATT, 3.4.4.4	C.2	☑	C.2: Mandatory IF ATT 3/6 "Find by Type Value Request" is supported, otherwise Excluded.
3/8	Read by Type Request	[1] ATT, 3.4.4.1	C.15	☑	C.15: Mandatory IF GATT 3/9 "Read Using Characteristic UUID" is supported, otherwise Optional.
3/9	Read by Type Response	[1] ATT, 3.4.4.2	C.3	☑	C.3: Mandatory IF ATT 3/8 "Read by Type Request" is supported, otherwise Excluded.
3/10	Read Request	[1] ATT, 3.4.4.3	C.14	☑	C.14: Mandatory IF GATT 3/8 "Read Characteristic Value" OR GATT 3/19 "Read Characteristic Descriptors" is supported, otherwise Optional.

3/11	Read Response	[1] ATT, 3.4.4.4	C.10	☑	C.10: Mandatory IF ATT 3/10 "Read Request" is supported, otherwise Excluded.
3/12	Read Blob Request	[1] ATT, 3.4.4.5	C.16	☑	C.16: Mandatory IF GATT 3/10 "Read Long Characteristic Values" OR GATT 3/20 "Read Long Characteristic Descriptors" is supported, otherwise Optional.
3/13	Read Blob Response	[1] ATT, 3.4.4.6	C.4	☑	C.4: Mandatory IF ATT 3/12 "Read Blob Request" is supported, otherwise Excluded.
3/16	Read by Group Type Request	[1] ATT, 3.4.4.9	O	☑	
3/17	Read by Group Type Response	[1] ATT, 3.4.4.10	C.6	☑	C.6: Mandatory IF ATT 3/16 "Read by Group Type Request" is supported, otherwise Excluded.
3/18	Write Request	[1] ATT, 3.4.5.1	C.20	☑	C.20: Mandatory IF GATT 3/14 "Write Characteristic Value" OR GATT 3/21 "Write Characteristic Descriptors" is supported, otherwise Optional.
3/19	Write Response	[1] ATT, 3.4.5.2	C.7	☑	C.7: Mandatory IF ATT 3/18 "Write Request" is supported, otherwise Excluded.
3/20	Write Command	[1] ATT, 3.4.5.3	C.18	☑	C.18: Mandatory IF GATT 3/12 "Write without Response" is supported, otherwise Optional.
3/22	Prepare Write Request	[1] ATT, 3.4.6.1	C.21	☑	C.21: Mandatory IF GATT 3/15 "Write Long Characteristic Values" OR GATT 3/16 "Characteristic Value Reliable Writes" OR GATT 3/22 "Write Long Characteristic Descriptors" is supported, otherwise Optional.
3/23	Prepare Write Response	[1] ATT, 3.4.6.2	C.8	☑	C.8: Mandatory IF ATT 3/22 "Prepare Write Request" is supported, otherwise Excluded.
3/24	Execute Write Request	[1] ATT, 3.4.6.3	C.8	☑	C.8: Mandatory IF ATT 3/22 "Prepare Write Request" is supported, otherwise Excluded.
3/25	Execute Write Response	[1] ATT, 3.4.6.4	C.8	☑	C.8: Mandatory IF ATT 3/22 "Prepare Write Request" is supported, otherwise Excluded.
3/26	Handle Value Notification	[1] ATT, 3.4.7.1	C.22	☑	C.22: Mandatory IF GATT 3/17 "Notifications" OR ATT 2/3 "Attribute Protocol Supported (L2CAP fixed EATT PSM supported)" is supported, otherwise Optional.
3/27	Handle-Value Indication	[1] ATT, 3.4.7.2	C.23	☑	C.23: Mandatory IF GATT 3/18 "Indications" is supported, otherwise Optional.
3/28	Handle Value Confirmation	[1] ATT, 3.4.7.3	C.24	☑	C.24: Mandatory IF 3/27 "Handle-Value Indication" is supported, otherwise Excluded.
3/29	Client Timeout	[1] ATT, 3.3.3	C.24	☑	C.24: Mandatory IF 3/27 "Handle-Value Indication" is supported, otherwise Excluded.

Table 4: Attribute Protocol Server Messages

Item	Capability	Reference	Support	Status	Comment
4/1	Attribute Error Response	ATT, 3.4.1.1	M	☑	
4/2	Exchange MTU Request	ATT, 3.4.2.1	C.18	☑	C.18: Excluded IF (ATT 2/1 "Attribute Protocol Supported over BR/EDR (L2CAP fixed channel support)" OR ATT 2/3 "Attribute Protocol Supported (L2CAP fixed EATT PSM supported)"), otherwise Mandatory.
4/3	Exchange MTU Response	ATT, 3.4.2.2	C.18	☑	C.18: Excluded IF (ATT 2/1 "Attribute Protocol Supported over BR/EDR (L2CAP fixed channel support)" OR ATT 2/3 "Attribute Protocol Supported (L2CAP fixed EATT PSM supported)"), otherwise Mandatory.
4/4	Find Information Request	ATT, 3.4.3.1	M	☑	
4/5	Find Information Response	ATT, 3.4.3.2	M	☑	
4/6	Find by Type Value Request	ATT, 3.4.4.3	M	☑	

4/7	Find by Type Value Response	ATT, 3.4.4	M	✓	
4/8	Read by Type Request	ATT, 3.4.4.1	M	✓	
4/9	Read by Type Response	ATT, 3.4.4.2	M	✓	
4/10	Read Request	ATT, 3.4.4.3	M	✓	
4/11	Read Response	ATT, 3.4.4.4	M	✓	
4/12	Read Blob Request	ATT, 3.4.4.5	C.6	✓	C.6: Mandatory IF (GATT 4/10 "Read Long Characteristic Values" OR ATT 2/3 "Attribute Protocol Supported (L2CAP fixed EATT PSMsupported)") is supported, otherwise Optional.
4/13	Read Blob Response	ATT, 3.4.4.6	C.1	✓	C.1: Mandatory IF 4/12 "Read Blob Request" is supported, otherwise Excluded.
4/16	Read by Group Type Request	ATT, 3.4.4.9	M	✓	
4/17	Read by Group Type Response	ATT, 3.4.4.10	M	✓	
4/18	Write Request	ATT, 3.4.5.1	C.10	✓	C.10: Mandatory IF (GATT 4/14 "Write Characteristic Value" OR GATT 4/21 "Write Characteristic Descriptors" OR ATT 2/3 "Attribute Protocol Supported (L2CAP fixed EATT PSMsupported)") is supported, otherwise Optional.
4/19	Write Response	ATT, 3.4.5.2	C.3	✓	C.3: Mandatory IF 4/18 "Write Request" is supported, otherwise Excluded.
4/20	Write Command	ATT, 3.4.5.3	C.8	✓	C.8: Mandatory IF (GATT 4/12 "Write Without Response" OR ATT 2/3 "Attribute Protocol Supported (L2CAP fixed EATT PSMsupported)") is supported, otherwise Optional.
4/22	Prepare Write Request	ATT, 3.4.6.1	C.11	✓	C.11: Mandatory IF (GATT 4/15 "Write Long Characteristic Values" OR GATT 4/16 "Characteristic Value Reliable Writes" OR GATT 4/22 "Write Long Characteristic Descriptors" OR ATT 2/3 "Attribute Protocol Supported (L2CAP fixed EATT PSMsupported)") is supported, otherwise Optional.
4/23	Prepare Write Response	ATT, 3.4.6.2	C.4	✓	C.4: Mandatory IF 4/22 "Prepare Write Request" is supported, otherwise Excluded.
4/24	Execute Write Request	ATT, 3.4.6.3	C.4	✓	C.4: Mandatory IF 4/22 "Prepare Write Request" is supported, otherwise Excluded.
4/25	Execute Write Response	ATT, 3.4.6.4	C.4	✓	C.4: Mandatory IF 4/22 "Prepare Write Request" is supported, otherwise Excluded.
4/26	Handle Value Notification	ATT, 3.4.7.1	C.12	✓	C.12: Mandatory IF (GATT 4/17 "GATT Server Notifications" OR ATT 2/3 "Attribute Protocol Supported (L2CAP fixed EATT PSMsupported)") is supported, otherwise Optional.
4/27	Handle-Value Indication	ATT, 3.4.7.2	C.13	✓	C.13: Mandatory IF GATT 4/18 "Indications" is supported, otherwise Optional.
4/28	Handle Value Confirmation	ATT, 3.4.7.3	C.5	✓	C.5: Mandatory IF 4/27 "Handle-Value Indication" is supported, otherwise Excluded.
4/29	Server Timeout	ATT, 3.3.3	C.5	✓	C.5: Mandatory IF 4/27 "Handle-Value Indication" is supported, otherwise Excluded.

Table 5: Attribute Protocol Transport Security

Item	Capability	Reference	Support	Status	Comment
5/2	LE Security Mode 1	[2] GAP 10.2.1	C.2	✓	C.2: Optional to support if 2/2 "Attribute Protocol Server", otherwise Excluded.
5/4	LE Authentication Procedure	[2] GAP 10.3	C.2	✓	C.2: Optional to support if 2/2 "Attribute Protocol Server", otherwise Excluded.
5/7	LE Authorization Procedure	[2] GAP 10.5	C.2	✓	C.2: Optional to support if 2/2 "Attribute Protocol Server", otherwise Excluded.

Audio/Video Control Transport Protocol

Table 0: Protocol Version

Item	Capability	Reference	Support	Status	Comment
0/4	AVCTP 1.4	AVCTP 1.4	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support only one Protocol Version.

Table 1: Roles

Item	Capability	Reference	Support	Status	Comment
1/1	Controller	3.1	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one of the defined roles.
1/2	Target	3.1	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one of the defined roles.

Table 2: Controller Features

Prerequisite: AVCTP 1/1

Item	Capability	Reference	Support	Status	Comment
2/2	Transaction label management	4.2, 6.1.1, 6.1.2	M	<input checked="" type="checkbox"/>	
2/3	Packet type field management	4.3, 6.1.1, 6.1.2	M	<input checked="" type="checkbox"/>	
2/4	Message type field management	4.5, 6.1.1, 6.1.2	M	<input checked="" type="checkbox"/>	
2/5	PID field management	4.4, 6.1.1, 6.1.2	M	<input checked="" type="checkbox"/>	
2/6	IPID field mangement	6.1.1, 6.1.2	M	<input checked="" type="checkbox"/>	
2/7	Message information management	6.1, 6.2	M	<input checked="" type="checkbox"/>	

Table 3: Target Features

Prerequisite: AVCTP 1/2

Item	Capability	Reference	Support	Status	Comment
3/2	Transaction label management	4.2, 6.1.1	M	<input checked="" type="checkbox"/>	
3/3	Packet type field management	4.3, 6.1.1, 6.1.2	M	<input checked="" type="checkbox"/>	
3/4	Message type field management	4.5, 6.1.1, 6.1.2	M	<input checked="" type="checkbox"/>	
3/5	PID field management	4.4, 6.1.1, 6.1.2	M	<input checked="" type="checkbox"/>	
3/6	IPID field management	6.1.1, 6.1.2	M	<input checked="" type="checkbox"/>	
3/7	Message information management	6.1, 6.2	M	<input checked="" type="checkbox"/>	
3/11	Connect request	11.2.1	O	<input checked="" type="checkbox"/>	
3/12	Disconnect request	11.2.2	O	<input checked="" type="checkbox"/>	
3/13	Send message	11.2.3	O	<input checked="" type="checkbox"/>	

Audio Video Distribution Transport Protocol

Table 1: Roles

Item	Capability	Reference	Support	Status	Comment
1/1	Source	[1] 4.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one of the defined roles.
1/2	Sink	[1] 4.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one of the defined roles.
1/3	Initiator	[1] 4.3	C.2	<input checked="" type="checkbox"/>	C.2: It is within the scope of profiles using the AVDTP specification to mandate Initiator/Acceptor capabilities. Mandatory to support at least one of the defined roles.
1/4	Acceptor	[1] 4.3	C.2	<input checked="" type="checkbox"/>	C.2: It is within the scope of profiles using the AVDTP specification to mandate Initiator/Acceptor capabilities. Mandatory to support at least one of the defined roles.

Table 2: Signalling message format (Initiator, Source)

Prerequisite: AVDTP 1/3 “Initiator” AND AVDTP 1/1 “Source”

Item	Capability	Reference	Support	Status	Comment
2/1	Transaction label	[1] 8.4.1	M	<input checked="" type="checkbox"/>	

2/2	Packet type	[1] 8.4.2	M	✓
2/3	Message type	[1] 8.4.3	M	✓
2/4	Signal identifier	[1] 8.4.4	M	✓

Table 3: Signalling channel establishment/disconnection (Initiator, Source)

Prerequisite: AVDTP 1/3 “Initiator” AND AVDTP 1/1 “Source”

Item	Capability	Reference	Support	Status	Comment
3/1	Establish signalling channel	[1] 13.1	O	✓	
3/2	Disconnect signalling channel	[1] 13.1	O	✓	

Table 4: Stream discovery and configuration (Initiator, Source)

Prerequisite: AVDTP 1/3 “Initiator” AND AVDTP 1/1 “Source”

Item	Capability	Reference	Support	Status	Comment
4/1	Stream discover command	[1] 6.4, 6.6, 8.6, 13.1	O	✓	
4/2	Stream get capabilities command	[1] 6.4, 6.7, 8.7, 13.1	C.2	✓	C.2: Mandatory IF AVDTP 4/6 “Stream get all capabilities command” is supported, otherwise Optional.
4/3	Set configuration command	[1] [2] 6.4, 6.8, 8.8, 13.1 [3] 6.4, 6.9, 8.9, 13.1	O	✓	
4/4	Get configuration command	[1] [2] 6.4, 6.9, 8.9, 13.1 [3] 6.4, 6.10, 8.10, 13.1	O	✓	
4/6	Stream get all capabilities command	[3] 6.4, 6.8, 8.8, 13.1	C.1	✓	C.1: Optional IF AVDTP 14a/3 “AVDTP 1.3” is supported, otherwise Excluded.

Table 5: Stream establishment, suspension and release (Initiator, Source)

Prerequisite: AVDTP 1/3 “Initiator” AND AVDTP 1/1 “Source”

Item	Capability	Reference	Support	Status	Comment
5/1	Open stream command	[1] [2] 6.4, 6.10, 8.11, 13.1 [3] 6.4, 6.11, 8.12, 13.1	O	✓	
5/2	Start stream command	[1] [2] 6.4, 6.11, 8.12, 13.1 [3] 6.4, 6.12, 8.13, 13.1	O	✓	
5/3	Close stream command	[1] [2] 6.4, 6.12, 8.13, 13.1 [3] 6.4, 6.13, 8.14, 13.1	O	✓	
5/4	Suspend command	[1] [2] 6.4, 6.13, 8.14, 13.1 [3] 6.4, 6.14, 8.15, 13.1	O	✓	
5/5	Abort stream command	[1] [2] 6.4, 6.16, 8.15, 13.1 [3] 6.4, 6.17, 8.16, 13.1	O	✓	

Table 6: Security signalling (Initiator, Source)

Prerequisite: AVDTP 1/3 “Initiator” AND AVDTP 1/1 “Source”

Item	Capability	Reference	Support	Status	Comment
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Table 7: Message fragmentation (Initiator, Source)

Prerequisite: AVDTP 1/3 “Initiator” AND AVDTP 1/1 “Source”

Item	Capability	Reference	Support	Status	Comment
7/1	Signalling message fragmentation	[1] 8.3	M	✓	

Table 8: Signaling Message Format (Acceptor, Source)

Prerequisite: AVDTP 1/4 “Acceptor” AND AVDTP 1/1 “Source”

Item	Capability	Reference	Support	Status	Comment
8/1	Transaction Label	[1] 8.4.1	M	✓	
8/2	Packet Type	[1] 8.4.2	M	✓	
8/3	Message Type	[1] 8.4.3	M	✓	
8/4	Signal Identifier	[1] 8.4.4	M	✓	

Table 9: Signalling channel establishment/disconnection (Acceptor, Source)

Prerequisite: AVDTP 1/4 “Acceptor” AND AVDTP 1/1 “Source”

Item	Capability	Reference	Support	Status	Comment
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9/1	Establish signalling channel	[1] 13.1	O	☑
9/2	Disconnect signalling channel	[1] 13.1	O	☑

Table 10: Stream discovery and configuration (Acceptor, Source)

Prerequisite: AVDTP 1/4 “Acceptor” AND AVDTP 1/1 “Source”

Item	Capability	Reference	Support	Status	Comment
10/1	Stream discover response	[1] 6.4, 6.6, 8.6, 13.1	O	☑	
10/2	Stream get capabilities response	[1] 6.4, 6.7, 8.7, 13.1	C.2	☑	C.2: Mandatory IF AVDTP 10/6 “Stream get all capabilities response” is supported, otherwise Optional.
10/3	Set configuration response	[1] [2] 6.4, 6.8, 8.8, 13.1 [3] 6.4, 6.9, 8.9, 13.1	O	☑	
10/6	Stream get all capabilities response	[3] 6.4, 6.8, 8.8, 13.1	C.1	☑	C.1: Optional IF AVDTP 14a/3 “AVDTP 1.3” is supported, otherwise Excluded.

Table 11: Stream establishment, suspension and release (Acceptor, Source)

Prerequisite: AVDTP 1/4 “Acceptor” AND AVDTP 1/1 “Source”

Item	Capability	Reference	Support	Status	Comment
11/1	Open stream response	[1] [2] 6.4, 6.10, 8.11, 13.1 [3] 6.4, 6.11, 8.12, 13.1	O	☑	
11/2	Start stream response	[1] [2] 6.4, 6.11, 8.12, 13.1 [3] 6.4, 6.12, 8.13, 13.1	O	☑	
11/3	Close stream response	[1] [2] 6.4, 6.12, 8.13, 13.1 [3] 6.4, 6.13, 8.14, 13.1	O	☑	
11/4	Suspend response	[1] [2] 6.4, 6.13, 8.14, 13.1 [3] 6.4, 6.14, 8.15, 13.1	O	☑	
11/5	Abort stream response	[1] [2] 6.4, 6.16, 8.15, 13.1 [3] 6.4, 6.17, 8.16, 13.1	O	☑	
11/6	General reject message	[2] 8.17, [3] 8.18	O	☑	

Table 12: Security signalling (Acceptor, Source)

Prerequisite: AVDTP 1/4 “Acceptor” AND AVDTP 1/1 “Source”

Item	Capability	Reference	Support	Status	Comment
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Table 13: Message fragmentation (Acceptor, Source)

Prerequisite: AVDTP 1/4 “Acceptor” AND AVDTP 1/1 “Source”

Item	Capability	Reference	Support	Status	Comment
13/1	Signalling message fragmentation	[1] 8.3	M	☑	

Table 14: Source capabilities

Prerequisite: AVDTP 1/1 “Source”

Item	Capability	Reference	Support	Status	Comment
14/1	Basic transport service support	[1] 7.2, 13.2	M	☑	

Table 14a: AVDTP Source Versions

Prerequisite: AVDTP 1/1 “Source”

Item	Capability	Reference	Support	Status	Comment
14a/3	AVDTP 1.3	AVDTP 1.3	C.1	☑	C.1: Mandatory to support one and only one profile version.

Table 2b: Signaling Message Format (Initiator, Sink)

Prerequisite: AVDTP 1/3 “Initiator” AND AVDTP 1/2 “Sink”

Item	Capability	Reference	Support	Status	Comment
2b/1	Transaction Label	[1] 8.4.1	M	☑	
2b/2	Packet Type	[1] 8.4.2	M	☑	
2b/3	Message Type	[1] 8.4.3	M	☑	
2b/4	Signal Identifier	[1] 8.4.4	M	☑	

Table 3b: Signaling Channel Establishment/Disconnection (Initiator, Sink)

Prerequisite: AVDTP 1/3 “Initiator” AND AVDTP 1/2 “Sink”

Item	Capability	Reference	Support	Status	Comment
3b/1	Establish signaling channel	[1] 13.1	O	☑	
3b/2	Disconnect signaling channel	[1] 13.1	O	☑	

Table 4b: Stream Discovery and Configuration (Initiator, Sink)

Prerequisite: AVDTP 1/3 “Initiator” AND AVDTP 1/2 “Sink”

Item	Capability	Reference	Support	Status	Comment
4b/1	Stream discover command	[1] 6.4, 6.6, 8.6, 13.1	O	☑	
4b/2	Stream get capabilities command	[1] 6.4, 6.7, 8.7, 13.1	C.2	☑	C.2: Mandatory IF AVDTP 4b/6 “Stream get all capabilities command” is supported, otherwise Optional.
4b/3	Set configuration command	[1] [2] 6.4, 6.8, 8.8, 13.1 [3] 6.4, 6.9, 8.9, 13.1	O	☑	
4b/4	Get configuration command	[1] [2] 6.4, 6.9, 8.9, 13.1 [3] 6.4, 6.10, 8.10, 13.1	O	☑	
4b/6	Stream get all capabilities command	[3] 6.4, 6.8, 8.8, 13.1	C.1	☑	C.1: Optional IF AVDTP 15a/3 “AVDTP 1.3” is supported, otherwise Excluded.

Table 5b: Stream Establishment, Suspension and Release (Initiator, Sink)

Prerequisite: AVDTP 1/3 “Initiator” AND AVDTP 1/2 “Sink”

Item	Capability	Reference	Support	Status	Comment
5b/1	Open stream command	[1] [2] 6.4, 6.10, 8.11, 13.1 [3] 6.4, 6.11, 8.12, 13.1	O	☑	
5b/2	Start stream command	[1] [2] 6.4, 6.11, 8.12, 13.1 [3] 6.4, 6.12, 8.13, 13.1	O	☑	
5b/3	Close stream command	[1] [2] 6.4, 6.12, 8.13, 13.1 [3] 6.4, 6.13, 8.14, 13.1	O	☑	
5b/4	Suspend command	[1] [2] 6.4, 6.13, 8.14, 13.1 [3] 6.4, 6.14, 8.15, 13.1	O	☑	
5b/5	Abort stream command	[1] [2] 6.4, 6.16, 8.15, 13.1 [3] 6.4, 6.17, 8.16, 13.1	O	☑	

Table 6b: Security Signaling (Initiator, Sink)

Prerequisite: AVDTP 1/3 “Initiator” AND AVDTP 1/2 “Sink”

Item	Capability	Reference	Support	Status	Comment
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Table 7b: Message Fragmentation (Initiator, Sink)

Prerequisite: AVDTP 1/3 “Initiator” AND AVDTP 1/2 “Sink”

Item	Capability	Reference	Support	Status	Comment
7b/1	Signaling message fragmentation	[1] 8.3	M	☑	

Table 8b: Signaling Message Format (Acceptor, Sink)

Prerequisite: AVDTP 1/4 “Acceptor” AND AVDTP 1/2 “Sink”

Item	Capability	Reference	Support	Status	Comment
8b/1	Transaction Label	[1] 8.4.1	M	☑	
8b/2	Packet Type	[1] 8.4.2	M	☑	
8b/3	Message Type	[1] 8.4.3	M	☑	
8b/4	Signal Identifier	[1] 8.4.4	M	☑	

Table 9b: Signaling Channel Establishment/Disconnection (Acceptor, Sink)

Prerequisite: AVDTP 1/4 “Acceptor” AND AVDTP 1/2 “Sink”

Item	Capability	Reference	Support	Status	Comment
9b/1	Establish signaling channel	[1] 13.1	O	☑	
9b/2	Disconnect signaling channel	[1] 13.1	O	☑	

Table 10b: Stream Discovery and Configuration (Acceptor, Sink)

Prerequisite: AVDTP 1/4 “Acceptor” AND AVDTP 1/2 “Sink”

Item	Capability	Reference	Support	Status	Comment
10b/1	Stream discover response	[1] 6.4, 6.6, 8.6, 13.1	O	☑	
10b/2	Stream get capabilities response	[1] 6.4, 6.7, 8.7, 13.1	C.2	☑	C.2: Mandatory IF AVDTP 10b/6 “Stream get all capabilities response” is supported, otherwise Optional.
10b/3	Set configuration response	[1] [2] 6.4, 6.8, 8.8, 13.1 [3] 6.4, 6.9, 8.9, 13.1	O	☑	
10b/6	Stream get all capabilities response	[3] 6.4, 6.8, 8.8, 13.1	C.1	☑	C.1: Optional IF AVDTP 15a/3 “AVDTP 1.3” is supported, otherwise Excluded.

Table 11b: Stream Establishment, Suspension and Release (Acceptor, Sink)

Prerequisite: AVDTP 1/4 “Acceptor” AND AVDTP 1/2 “Sink”

Item	Capability	Reference	Support	Status	Comment
11b/1	Open stream response	[1] [2] 6.4, 6.10, 8.11, 13.1 [3] 6.4, 6.11, 8.12, 13.1	O	☑	
11b/2	Start stream response	[1] [2] 6.4, 6.11, 8.12, 13.1 [3] 6.4, 6.12, 8.13, 13.1	O	☑	
11b/3	Close stream response	[1] [2] 6.4, 6.12, 8.13, 13.1 [3] 6.4, 6.13, 8.14, 13.1	O	☑	
11b/4	Suspend response	[1] [2] 6.4, 6.13, 8.14, 13.1 [3] 6.4, 6.14, 8.15, 13.1	O	☑	
11b/5	Abort stream response	[1] [2] 6.4, 6.16, 8.15, 13.1 [3] 6.4, 6.17, 8.16, 13.1	O	☑	
11b/6	General reject message	[2] 8.17, [3] 8.18	O	☑	

Table 12b: Security Signaling (Acceptor, Sink)

Prerequisite: AVDTP 1/4 “Acceptor” AND AVDTP 1/2 “Sink”

Item	Capability	Reference	Support	Status	Comment
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Table 13b: Message Fragmentation (Acceptor, Sink)

Prerequisite: AVDTP 1/4 “Acceptor” AND AVDTP 1/2 “Sink”

Item	Capability	Reference	Support	Status	Comment
13b/1	Signaling message fragmentation	[1] 8.3	M	☑	

Table 15: Sink capabilities

Prerequisite: AVDTP 1/2 “Sink”

Item	Capability	Reference	Support	Status	Comment
15/1	Basic transport service support	[1] 7.2, 13.2	M	☑	

Table 15a: AVDTP Sink Versions

Prerequisite: AVDTP 1/2 “Sink”

Item	Capability	Reference	Support	Status	Comment
15a/3	AVDTP 1.3	AVDTP 1.3	C.1	☑	C.1: Mandatory to support one and only one profile version.

Table 16: Message Error Handling Capabilities

Item	Capability	Reference	Support	Status	Comment
16/1	Reporting Capability Error	[2] 8.18.6.2 [3] 8.20.6.2	C.1	☑	C.1: Mandatory IF AVDTP 14a/2 OR AVDTP 15a/2 “AVDTP 1.2” OR AVDTP 14a/3 OR AVDTP 15a/3 “AVDTP 1.3” is supported, otherwise Optional.
16/3	General Reject Response Includes Signal ID	[3] 8.18	C.3	☑	C.3: Mandatory IF AVDTP 14a/3 OR AVDTP 15a/3 “AVDTP 1.3” is supported, otherwise Optional.

Table 17: Upper Test Interface

Item	Capability	Reference	Support	Status	Comment
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Table 18: L2CAP Capabilities

Item	Capability	Reference	Support	Status	Comment
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AV Remote Control Profile

Table 1: Roles

Item	Capability	Reference	Support	Status	Comment
1/1	Controller	[1] [2] [3] [5] 2.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one of the defined roles.

Table 2: Controller Features

Prerequisite: AVRCP 1/1 "Controller"

Item	Capability	Reference	Support	Status	Comment
2/1	Initiating Connection Establishment for Control	[1] [2] [3] [5] 4.1.1	M	<input checked="" type="checkbox"/>	
2/2	Accepting Connection Establishment for Control Initiated by TG	[1] [2] [3] [5] 4.1.1	M	<input checked="" type="checkbox"/>	
2/3	Initiating Connection Release for Control	[1] [2] [3] [5] 4.1.2	M	<input checked="" type="checkbox"/>	
2/4	Accepting Connection Release for Control Initiated by TG	[1] [2] [3] [5] 4.1.2	M	<input checked="" type="checkbox"/>	
2/7	Sending PASS THROUGH Command in Category 1	[1] [2] [3] [5] 4.1.3	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one (AVRCP 2/7 OR AVRCP 2/8 OR AVRCP 2/9 OR AVRCP 2/10).

Table 2b: Controller Major Profile Version (X.Y)

Item	Capability	Reference	Support	Status	Comment
2b/2	AVRCP v1.3	AVRCP v1.3	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one of the profile versions.

Table 2c: Controller Minor Profile Version (X.Y.Z)

Item	Capability	Reference	Support	Status	Comment
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Table 3: Operation_id of Category 1 for CT

Item	Capability	Reference	Support	Status	Comment
3/19	Play	-	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one item.
3/21	Pause	-	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one item.
3/26	Forward	-	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one item.
3/27	Backward	-	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one item.

Table 4: Operation_id of category 2 for CT

Prerequisite: AVRCP 2/8 "Sending PASS THROUGH command in Category 3"

Item	Capability	Reference	Support	Status	Comment
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Table 5: Operation_id of category 3 for CT

Prerequisite: AVRCP 2/9 "Sending PASS THROUGH command in Category 3"

Item	Capability	Reference	Support	Status	Comment
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Table 6: Operation_id of category 4 for CT

Prerequisite: AVRCP 2/10 "Sending PASS THROUGH command in Category 4"

Item	Capability	Reference	Support	Status	Comment
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Table 7: Target Features

Prerequisite: AVRCP 1/2 "Target"

Item	Capability	Reference	Support	Status	Comment
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Table 7b: Target Major Profile Version (X.Y)

Item	Capability	Reference	Support	Status	Comment
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Table 7c: Target Minor Profile Version (X.Y.Z)

Item	Capability	Reference	Support	Status	Comment
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Table 8: Operation_id of category 1 for TG

Prerequisite: AVRCP 7/7 “Receiving PASS THROUGH command in Category 1”

Item	Capability	Reference	Support	Status	Comment
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Table 9: Operation_id of category 2 for TG

Prerequisite: AVRCP 7/8 “Receiving PASS THROUGH command in Category 2”

Item	Capability	Reference	Support	Status	Comment
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Table 10: Operation_id of category 3 for TG

Prerequisite: AVRCP 7/9 “Receiving PASS THROUGH command in Category 3”

Item	Capability	Reference	Support	Status	Comment
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Table 11: Operation_id of category 4 for TG

Prerequisite: AVRCP 7/10 "Receiving PASS THROUGH command in Category 4”

Item	Capability	Reference	Support	Status	Comment
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Table 14: OBEX Operations (AVRCP CT, OBEX Client)

Prerequisite: AVRCP 1/1 "Controller”

Item	Capability	Reference	Support	Status	Comment
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Table 15: OBEX Operations (AVRCP TG, OBEX Server)

Prerequisite: AVRCP 1/2 "Target”

Item	Capability	Reference	Support	Status	Comment
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Device ID

Table 0: Version

Item	Capability	Reference	Support	Status	Comment
0/2	Device ID 1.3	[2] Device ID 1.3	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support one and only one profile version.

Table 1: SDP Requirements

Item	Capability	Reference	Support	Status	Comment
1/1	SpecificationID	[1] 5.1	M	<input checked="" type="checkbox"/>	
1/2	VendorID	[1] 5.2	M	<input checked="" type="checkbox"/>	
1/3	ProductID	[1] 5.3	M	<input checked="" type="checkbox"/>	
1/4	Version	[1] 5.4	M	<input checked="" type="checkbox"/>	
1/5	PrimaryRecord	[1] 5.5	M	<input checked="" type="checkbox"/>	
1/6	VendorIDSource	[1] 5.6	M	<input checked="" type="checkbox"/>	

Generic Access Profile

Table 0: Device Configuration

Item	Capability	Reference	Support	Status	Comment
0/3	BR/EDR/LE	[3] or [7] 1.1	C.3	☑	C.3: Mandatory if (PROD 3/4 or 3/5) is Supported, otherwise Excluded.

Table 1: Modes

Prerequisite: GAP 0/1 “BR/EDR” OR GAP 0/3 “BR/EDR/LE”

Item	Capability	Reference	Support	Status	Comment
1/1	Non-discoverable mode	[1] or [2] or [3] or [7] 4.1.1	C.1	☑	C.1: Mandatory if GAP 1/2 is supported, otherwise Optional.
1/2	Limited-discoverable mode	[1] or [2] or [3] or [7] 4.1.2	O	☑	
1/3	General-discoverable mode	[1] or [2] or [3] or [7] 4.1.3	O	☑	
1/4	Non-connectable mode	[1] or [2] or [3] or [7] 4.2.1	O	☑	
1/5	Connectable mode	[1] or [2] or [3] or [7] 4.2.2	M	☑	
1/7	Bondable mode	[1] or [2] or [3] or [7] 4.3.2	C.2	☑	C.2: Mandatory if GAP 3/5 is supported, otherwise Optional.

Table 2: Security Aspects

Prerequisite: GAP 0/1 “BR/EDR” OR GAP 0/3 “BR/EDR/LE”

Item	Capability	Reference	Support	Status	Comment
2/1	Authentication procedure	[1] or [2] or [3] or [7] 5.1	C.1	☑	C.1: Mandatory If (GAP 2/5 or GAP 2/6) is supported, otherwise Optional.
2/2	Support of LMP-Authentication	[1] or [2] or [3] or [7] 5.1	M	☑	
2/3	Initiate LMP-Authentication	[1] or [2] or [3] or [7] 5.1	C.5	☑	C.5: Mandatory If (2/5 or 2/6 or 2/7) is supported, otherwise Optional.
2/7	Security mode 4	[2] or [3] or [7] 5.2.2	M	☑	
2/8	Support of Authenticated link key	[2] or [3] or [7] 5.2.2	C.6	☑	C.6: If 2/7 is supported then at least one of (2/8 or 2/9 or 2/10) is Mandatory, otherwise Excluded.
2/9	Support of Unauthenticated link key	[2] or [3] or [7] 5.2.2	C.6	☑	C.6: If 2/7 is supported then at least one of (2/8 or 2/9 or 2/10) is Mandatory, otherwise Excluded.
2/10	Security Optional	[2] or [3] or [7] 5.2.2	C.6	☑	C.6: If 2/7 is supported then at least one of (2/8 or 2/9 or 2/10) is Mandatory, otherwise Excluded.

Table 3: Idle Mode Procedures

Prerequisite: GAP 0/1 “BR/EDR” OR GAP 0/3 “BR/EDR/LE”

Item	Capability	Reference	Support	Status	Comment
3/1	Initiation of general inquiry	[1] or [2] or [3] or [7] 6.1	C.1	☑	C.1: Mandatory to support at least one of GAP 3/1 (Initiation of general inquiry) or GAP 3/2 (Initiation of limited inquiry) if GAP 3/5 (Initiation of general bonding) is supported, otherwise Optional.
3/2	Initiation of limited inquiry	[1] or [2] or [3] or [7] 6.2	C.1	☑	C.1: Mandatory to support at least one of GAP 3/1 (Initiation of general inquiry) or GAP 3/2 (Initiation of limited inquiry) if GAP 3/5 (Initiation of general bonding) is supported, otherwise Optional.
3/3	Initiation of name discovery	[1] or [2] or [3] or [7] 6.3	O	☑	
3/4	Initiation of device discovery	[1] or [2] or [3] or [7] 6.4	O	☑	

Table 4: Establishment Procedures

Prerequisite: GAP 0/1 “BR/EDR” OR GAP 0/3 “BR/EDR/LE”

Item	Capability	Reference	Support	Status	Comment
4/1	Support link establishment as initiator	[1] or [2] or [3] or [7] 7.1	M	☑	
4/2	Support link establishment as acceptor	[1] or [2] or [3] or [7] 7.1	M	☑	
4/3	Support channel establishment as initiator	[1] or [2] or [3] or [7] 7.2	O	☑	
4/4	Support channel establishment as acceptor	[1] or [2] or [3] or [7] 7.2	M	☑	
4/5	Support connection establishment as initiator	[1] or [2] or [3] or [7] 7.3	O	☑	

4/6	Support connection establishment as acceptor	[1] or [2] or [3] or [7] 7.3	O	<input checked="" type="checkbox"/>
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Table 5: LE Roles

Item	Capability	Reference	Support	Status	Comment
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Table 6: Broadcaster Physical Layer

Item	Capability	Reference	Support	Status	Comment
6/1	Transmitter	[3] or [7] 2.2.2	M	<input checked="" type="checkbox"/>	
6/2	Receiver	[3] or [7] 2.2.2	O	<input checked="" type="checkbox"/>	

Table 7: Broadcaster Link Layer States

Item	Capability	Reference	Support	Status	Comment
7/1	Standby	[3] or [7] 2.2.2	M	<input checked="" type="checkbox"/>	
7/2	Advertising	[3] or [7] 2.2.2	M	<input checked="" type="checkbox"/>	

Table 8: Broadcaster Link Layer Advertising Event Types

Item	Capability	Reference	Support	Status	Comment
8/1	Non-Connectable Undirected Event	[3] or [7] 2.2.2	M	<input checked="" type="checkbox"/>	
8/2	Scannable Undirected Event	[3] or [7] 2.2.2	O	<input checked="" type="checkbox"/>	

Table 8a: Broadcaster Link Layer Advertising Data Types

Item	Capability	Reference	Support	Status	Comment
8a/2	AD Type – Local Name	[3] 11.1.2, [4] 1.2	O	<input checked="" type="checkbox"/>	
8a/3	AD Type – Flags	[3] 11.1.3, [4] 1.3	O	<input checked="" type="checkbox"/>	
8a/5	AD Type – TX Power Level	[3] 11.1.5, [4] 1.5	O	<input checked="" type="checkbox"/>	

Table 9: Broadcaster Connection Modes and Procedures

Item	Capability	Reference	Support	Status	Comment
9/1	Non-Connectable Mode	[3] or [7] 9.3.2	M	<input checked="" type="checkbox"/>	

Table 10: Broadcaster Broadcasting and Observing Features

Item	Capability	Reference	Support	Status	Comment
10/1	Broadcast Mode	[3] or [7] 9.1.1	M	<input checked="" type="checkbox"/>	

Table 11: Broadcaster Privacy Feature

Item	Capability	Reference	Support	Status	Comment
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Table 11a: Periodic Advertising Modes and Procedures

Item	Capability	Reference	Support	Status	Comment
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Table 11b: Broadcaster Security Aspects Features

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Item	Capability	Reference	Support	Status	Comment
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Table 12: Observer Physical Layer

Item	Capability	Reference	Support	Status	Comment
12/1	Receiver	[3] or [7] 2.2.2	M	<input checked="" type="checkbox"/>	
12/2	Transmitter	[3], 2.2.2	O	<input checked="" type="checkbox"/>	

Table 13: Observer Link Layer States

Item	Capability	Reference	Support	Status	Comment
13/1	Standby	[3] or [7] 2.2.2	M	<input checked="" type="checkbox"/>	
13/2	Scanning	[3] or [7] 2.2.2	M	<input checked="" type="checkbox"/>	

Table 14: Observer Link Layer Scanning Types

Item	Capability	Reference	Support	Status	Comment
14/1	Passive Scanning	[3] or [7] 2.2.2	M	<input checked="" type="checkbox"/>	
14/2	Active Scanning	[3] or [7] 2.2.2	O	<input checked="" type="checkbox"/>	

Table 15: Observer Connection Modes and Procedures

Item	Capability	Reference	Support	Status	Comment
15/1	Non-Connectable Modes	[3] or [7] 9.3.2	M	<input checked="" type="checkbox"/>	

Table 16: Observer Broadcasting and Observing Features

Item	Capability	Reference	Support	Status	Comment
16/1	Observation Procedure	[3] or [7] 9.1.2	M	<input checked="" type="checkbox"/>	

Table 17: Observer Privacy Feature

Item	Capability	Reference	Support	Status	Comment
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Table 17a: Periodic Advertising Modes and Procedures

Item	Capability	Reference	Support	Status	Comment
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Table 17b: Observer Security Aspects Features

Item	Capability	Reference	Support	Status	Comment
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Table 18: Peripheral Physical Layer

Item	Capability	Reference	Support	Status	Comment
18/1	Transmitter	[3] or [7] 2.2.2	M	<input checked="" type="checkbox"/>	
18/2	Receiver	[3] 2.2.2	M	<input checked="" type="checkbox"/>	

Table 19: Peripheral Link Layer States

Item	Capability	Reference	Support	Status	Comment
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19/1	Standby	[3] or [7] 2.2.2	M	☑
19/2	Advertising	[3] or [7] 2.2.2	M	☑
19/3	Connection, Slave Role	[3] 2.2.2, 13.1.2.2 [7] 2.2.2	M	☑

Table 20: Peripheral Link Layer Advertising Event Types

Item	Capability	Reference	Support	Status	Comment
20/1	Connectable and Scannable Undirected Event	[3] 2.2.2, 13.1.1.2 [7] 2.2.2	M	☑	
20/2	Connectable Directed Event	[3] 2.2.2, 13.1.1.2 [7] 2.2.2	O	☑	
20/3	Non-Connectable and Non-Scannable Undirected Event	[3] 2.2.2, 9.2.2.2, 9.3.1, 9.3.2 [7] 2.2.2	O	☑	
20/4	Scannable Undirected Event	[3] 2.2.2, 9.2.2.2, 9.3.1, 9.3.2 [7] 2.2.2	O	☑	

Table 20A: Peripheral Link Layer Advertising Data Types

Item	Capability	Reference	Support	Status	Comment
20A/2	AD Type – Local Name	[3] 11.1.2 [4] 1.2	C.1	☑	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/3	AD Type – Flags	[3] 11.1.3 [4] 1.3	C.2	☑	C.2: Mandatory if 22/2 (Limited Discoverable Mode) or 22/3 (General Discoverable Mode) is supported, otherwise Optional.
20A/5	AD Type – TX Power Level	[3] 11.1.5 [4] 1.5	C.1	☑	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.

Table 21: Peripheral Link Layer Control Procedures

Item	Capability	Reference	Support	Status	Comment
21/1	Connection Update Procedure	[3] 2.2.2, 13.1.2.2 [7] 2.2.2	M	☑	
21/2	Channel Map Update Procedure	[3] 2.2.2, 13.1.2.2 [7] 2.2.2	M	☑	
21/3	Encryption Procedure	[3] 2.2.2, 13.1.2.2	O	☑	
21/4	Master Initiated Feature Exchange Procedure	[3] 2.2.2, 13.1.2.2 [7] 2.2.2	M	☑	
21/5	Version Exchange Procedure	[3] 2.2.2, 13.1.2.2 [7] 2.2.2	M	☑	
21/6	Termination Procedure	[3] 2.2.2, 13.1.2.2 [7] 2.2.2	M	☑	
21/8	Slave Initiated Feature Exchange Procedure	[7] 2.2.2	C.1	☑	C.1: Mandatory IF GAP 21/9 “Connection Parameter Request Procedure” is supported, otherwise Optional.
21/9	Connection Parameter Request Procedure	[7] 2.2.2	O	☑	

Table 22: Peripheral Discovery Modes and Procedures

Item	Capability	Reference	Support	Status	Comment
22/1	Non-Discoverable Mode	[3] 9.2.2, 13.1.1.1 [7] 9.2.2, 13.1	M	☑	
22/2	Limited Discoverable Mode	[3] 9.2.3, 13.1.1.2 [7] 9.2.3, 13.1	O	☑	
22/3	General Discoverable Mode	[3] 9.2.4, 13.1.1.2 [7] 9.2.4, 13.1	C.1	☑	C.1: Mandatory IF (GAP 5/3 “LE Roles – Peripheral role” AND (NOT GAP 22/2 “Limited Discoverable Mode”)) is supported; Optional IF (GAP 5/3 “LE Roles – Peripheral role” AND GAP 22/2 “Limited Discoverable Mode”) is supported; Mandatory IF (GAP 38/3 “BR/EDR/LE Roles – Peripheral Role” AND NOT GAP 22/2 “Limited Discoverable Mode”) is supported; Optional IF (GAP 38/3 “BR/EDR/LE Roles – Peripheral Role” AND GAP 22/2 “Limited Discoverable Mode”) is supported, otherwise Excluded.

22/4	Name	[3] or [7]	O	✓
	Discovery	9.2.7		
	Procedure			

Table 23: Peripheral Connection Modes and Procedures

Item	Capability	Reference	Support	Status	Comment
23/1	Non-Connectable Mode	[3] 9.3.2, 13.1.2.1 [7] 9.3.2	M	✓	
23/2	Directed Connectable Mode	[3] 9.3.3, 13.1.2.2 [7] 9.3.3	O	✓	
23/3	Undirected Connectable Mode	[3] 9.3.4, 13.1.2.2 [7] 9.3.4	M	✓	
23/4	Connection Parameter Update Procedure	[3] 9.3.9, 13.1.2.1 [7] 9.3.9	O	✓	
23/5	Terminate Connection Procedure	[3] 9.3.10, 13.1.2.1 [7] 9.3.10	M	✓	

Table 24: Peripheral Bonding Modes and Procedures

Item	Capability	Reference	Support	Status	Comment
24/1	Non-Bondable Mode	[3], 9.4.2	M	✓	

Table 25: Peripheral Security Aspects Features

Item	Capability	Reference	Support	Status	Comment
25/1	Security Mode 1	[3] 10.2.1, 13.1.2.2 [7] 10.2.1	O	✓	
25/4	Authorization Procedure	[3] 10.5, 13.1.2.2 [7] 10.5	O	✓	
25/7	Authenticated Pairing (LE security mode 1 level 3)	[3] 10.3, 13.1.2.2 [7] 10.3	C.1	✓	C.1: Optional IF GAP 25/1 “LE Security Mode 1” is supported, otherwise Excluded.
25/8	Unauthenticated Pairing (LE security mode 1 level 2)	[3] 10.3, 13.1.2.2 [7] 10.3	C.1	✓	C.1: Optional IF GAP 25/1 “LE Security Mode 1” is supported, otherwise Excluded.

Table 26: Peripheral Privacy Feature

Item	Capability	Reference	Support	Status	Comment
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Table 27: Peripheral GAP Characteristics

Item	Capability	Reference	Support	Status	Comment
27/1	Device Name	[3] or [7] 12.1	M	✓	
27/2	Appearance	[3] or [7] 12.2	M	✓	

Table 27a: Periodic Advertising Modes and Procedures

Item	Capability	Reference	Support	Status	Comment
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Table 28: Central Physical Layer

Item	Capability	Reference	Support	Status	Comment
28/1	Transmitter	[3] or [7] 2.2.2	M	✓	
28/2	Receiver	[3] or [7] 2.2.2	M	✓	

Table 29: Central Link Layer States

Item	Capability	Reference	Support	Status	Comment
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29/1	Standby	[3] or [7] 2.2.2	M	☑
29/2	Scanning	[3] or [7] 2.2.2	M	☑
29/3	Initiating	[3] or [7] 2.2.2	M	☑
29/4	Connection, Master Role	[3] or [7] 2.2.2	M	☑

Table 30: Central Link Layer Scanning Types

Item	Capability	Reference	Support	Status	Comment
30/1	Passive Scanning	[3] or [7] 2.2.2	O	☑	
30/2	Active Scanning	[3] or [7] 2.2.2	C.1	☑	C.1: Mandatory IF (NOT GAP 30/1 "Passive Scanning") is supported; otherwise Optional.

Table 31: Central Link Layer Control Procedures

Item	Capability	Reference	Support	Status	Comment
31/1	Connection Update Procedure	[3] or [7] 2.2.2	M	☑	
31/2	Channel Map Update Procedure	[3] or [7] 2.2.2	M	☑	
31/3	Encryption Procedure	[3] or [7] 2.2.2	O	☑	
31/4	Feature Exchange Procedure	[3] or [7] 2.2.2	M	☑	
31/5	Version Exchange Procedure	[3] or [7] 2.2.2	M	☑	
31/6	Termination Procedure	[3] or [7] 2.2.2	M	☑	
31/8	Slave Initiated Feature Exchange Procedure	[7] 2.2.2	C.1	☑	C.1: Mandatory IF GAP 31/9 "Connection Parameter Request Procedure" is supported, otherwise Optional.
31/9	Connection Parameter Request Procedure	[7] 2.2.2	O	☑	

Table 32: Central Discovery Modes and Procedures

Item	Capability	Reference	Support	Status	Comment
32/1	Limited Discovery Procedure	[3] 9.2.5, 13.2 [7] 9.2.5	O	☑	
32/2	General Discovery Procedure	[3] 9.2.6, 13.2 [7] 9.2.6	M	☑	
32/3	Name Discovery Procedure	[3] 9.2.7, 13.2 [7] 9.2.7	O	☑	

Table 33: Central Connection Modes and Procedures

Item	Capability	Reference	Support	Status	Comment
33/1	Auto Connection Establishment Procedure	[3] or [7] 9.3.5	O	☑	
33/2	General Connection Establishment Procedure	[3] 9.3.6, 13.3.1 [7] 9.3.6	O	☑	
33/3	Selective Connection Establishment Procedure	[3] or [7] 9.3.7	O	☑	
33/4	Selective Connection Establishment Procedure	[3] or [7] 9.3.8	M	☑	
33/5	Connection Parameter Update Procedure	[3] or [7] 9.3.9	M	☑	
33/6	Terminate Connection Procedure	[3] or [7] 9.3.10	M	☑	

Table 34: Central Bonding Modes and Procedures

Item	Capability	Reference	Support	Status	Comment
34/1	Non-Bondable Mode	[3] 9.4.2, 13.1.3 [7] 9.4.2, 13.2	M	☑	
34/2	Bondable Mode	[3] 9.4.3, 13.1.3 [7] 9.4.3, 13.2	O		

Table 45: Peripheral Simultaneous BR/EDR and LE Transports

Item	Capability	Reference	Support	Status	Comment
45/1	Simultaneous BR/EDR and LE Transports – BR/EDR Slave to the same device	[3] [7] 13.1.1	O	☑	
45/2	Simultaneous BR/EDR and LE Transports – BR/EDR Master to the same device	[7] 13.1.1	O	☑	

Generic Attribute Profile

Table 1: Generic Attribute Profile Support

Item	Capability	Reference	Support	Status	Comment
1/1	Generic Attribute Profile (GATT) Client	[1] 2.2, [2] 12	C.1	☑	C.1: Mandatory IF GATT 1a/1 “GATT Client over LE” OR GATT 1a/2 “GATT Client over BR/EDR” is supported, otherwise Excluded.
1/2	Generic Attribute Profile (GATT) Server	[1] 2.2, [2] 12	C.2	☑	C.2: Mandatory IF GATT 1a/3 “GATT Server over LE” OR GATT 1a/4 “GATT Server over BR/EDR” is supported, otherwise Excluded.

Table 1a: GATT role configuration

Item	Capability	Reference	Support	Status	Comment
1a/1	GATT Client over LE	[1] 2.2, [2] 12	C.1	☑	C.1: Optional to support IF GATT 2/2 “Attribute Protocol Supported over LE” is supported, otherwise Excluded.
1a/3	GATT Server over LE	[1] 2.2, [2] 12	C.3	☑	C.3: Mandatory to support IF GATT 2/2 “Attribute Protocol Supported over LE” is supported, otherwise Excluded.

Table 2: Attribute Protocol Transport

Item	Capability	Reference	Support	Status	Comment
2/2	Attribute Protocol Supported over LE	[1] 2.4	C.2	☑	C.2: Mandatory IF ATT 2/2 “Attribute Protocol Supported over LE” is supported, otherwise Excluded.

Table 3: Generic Attribute Profile Feature Support, by Client

Item	Capability	Reference	Support	Status	Comment
3/1	Exchange MTU	[1] 4.3.1	C.11	☑	C.11: Optional IF GATT 1a/1 “GATT Client over LE” is supported, otherwise Excluded.
3/2	Discover All Primary Services	[1] 4.4.1	O	☑	
3/3	Discover Primary Services by Service UUID	[1] 4.4.2	O	☑	
3/4	Find Included Services	[1] 4.5.1	O	☑	
3/5	Discover All characteristics of a Service	[1] 4.6.1	O	☑	
3/6	Discover Characteristics by UUID	[1] 4.6.2	O	☑	
3/7	Discover All Characteristic Descriptors	[1] 4.7.1	O	☑	
3/8	Read Characteristic Value	[1] 4.8.1	O	☑	
3/9	Read Using Characteristic UUID	[1] 4.8.2	O	☑	
3/10	Read Long Characteristic Values	[1] 4.8.3	O	☑	
3/12	Write without Response	[1] 4.9.1	O	☑	
3/14	Write Characteristic Value	[1] 4.9.3	O	☑	
3/15	Write Long Characteristic Values	[1] 4.9.4	O	☑	
3/17	Notifications	[1] 4.10.1	C.7	☑	C.7: Mandatory IF ATT 2/3 “Attribute Protocol Supported (L2CAP fixed EATT PSM supported)” is supported, otherwise Optional.
3/18	Indications	[1] 4.11.1	M	☑	

3/19	Read Characteristic Descriptors	[1] 4.12.1	O	☑	
3/20	Read Long Characteristic Descriptors	[1] 4.12.2	O	☑	
3/21	Write Characteristic Descriptors	[1] 4.12.3	O	☑	
3/22	Write Long Characteristic Descriptors	[1] 4.12.4	O	☑	
3/23	Service Changed Characteristic	[1] 7.1	M	☑	

Table 4: Generic Attribute Profile Support, by Server

Prerequisite: GATT 1/2 “Generic Attribute Server” AND (GATT 1a/3 “GATT Server over LE” OR GATT 1a/4 “GATT Server over BR/EDR”)

Item	Capability	Reference	Support	Status	Comment
4/1	Exchange MTU	[1] 4.3.1	C.6	☑	C.6: Optional IF GATT 1a/3 “GATT Server over LE” is supported, otherwise Excluded.
4/2	Discover All Primary Services	[1] 4.4.1	M	☑	
4/3	Discover Primary Services by Service UUID	[1] 4.4.2	M	☑	
4/4	Find Included Services	[1] 4.5.1	M	☑	
4/5	Discover All characteristics of a Service	[1] 4.6.1	M	☑	
4/6	Discover Characteristics by UUID	[1] 4.6.2	M	☑	
4/7	Discover All Characteristic Descriptors	[1] 4.7.1	M	☑	
4/8	Read Characteristic Value	[1] 4.8.1	M	☑	
4/9	Read Using Characteristic UUID	[1] 4.8.2	M	☑	
4/10	Read Long Characteristic Values	[1] 4.8.3	C.12	☑	C.12: Mandatory IF ATT 2/3 “Attribute Protocol Supported (L2CAP fixed EATT PSM supported)” is supported, otherwise Optional.
4/12	Write without Response	[1] 4.9.1	C.2	☑	C.2: Mandatory IF (GATT 4/13 “Signed Write Without Response” OR ATT 2/3 “Attribute Protocol Supported (L2CAP fixed EATT PSM supported)”) is supported, otherwise Optional.
4/14	Write Characteristic Value	[1] 4.9.3	C.3	☑	C.3: Mandatory IF (GATT 4/15 “Write Long Characteristic Values” OR ATT 2/3 “Attribute Protocol Supported (L2CAP fixed EATT PSM supported)”) is supported, otherwise Optional.
4/15	Write Long Characteristic Values	[1] 4.9.4	C.12	☑	C.12: Mandatory IF ATT 2/3 “Attribute Protocol Supported (L2CAP fixed EATT PSM supported)” is supported, otherwise Optional.
4/17	Notifications	[1] 4.10.1	O	☑	C.4: Mandatory IF GATT 1a/7 “Complete GATT Server layer over LE” OR GATT 1a/8 “Complete GATT Server layer over BR/EDR” is supported, otherwise Optional.
4/18	Indications	[1] 4.11.1	C.1	☑	C.1: Mandatory IF service definitions on the server can be added, changed, or removed, otherwise Optional.
4/19	Read Characteristic Descriptors	[1] 4.12.1	C.12	☑	C.12: Mandatory IF ATT 2/3 “Attribute Protocol Supported (L2CAP fixed EATT PSM supported)” is supported, otherwise Optional.
4/20	Read Long Characteristic Descriptors	[1] 4.12.2	C.12	☑	C.12: Mandatory IF ATT 2/3 “Attribute Protocol Supported (L2CAP fixed EATT PSM supported)” is supported, otherwise Optional.
4/21	Write Characteristic Descriptors	[1] 4.12.3	C.12	☑	C.12: Mandatory IF ATT 2/3 “Attribute Protocol Supported (L2CAP fixed EATT PSM supported)” is supported, otherwise Optional.
4/22	Write Long Characteristic Descriptors	[1] 4.12.4	O	☑	
4/23	Service Changed Characteristic	[1] 7.1	C.1	☑	C.1: Mandatory if service definitions on the server can be added, changed, or removed, otherwise Optional.

Table 6: SDP Interoperability

Item	Capability	Reference	Support	Status	Comment
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Table 7: Attribute Protocol Transport

Item	Capability	Reference	Support	Status	Comment
7/2	LE Security Mode 1	[2] 10.2.1	C.5	☑	C.5: Mandatory IF ATT 5/2 (LE Security Mode 1) is supported, Optional IF GATT 2/2 (Attribute Protocol Supported over LE) is supported, otherwise Excluded.
7/4	LE Authentication Procedure	[2] 10.3	C.4	☑	C.4: Mandatory IF ATT 5/4 (LE Authentication Procedure) is supported, Optional IF GATT 2/2 (Attribute Protocol Supported over LE) is supported, otherwise Excluded.
7/7	LE Authorization Procedure	[2] 10.5	C.3	☑	C.3: Mandatory IF ATT 5/7 (LE Authorization Procedure) is supported, Optional IF GATT 2/2 (Attribute Protocol Supported over LE) is supported, otherwise Excluded.

Table 8: Attribute Protocol Transport

Item	Capability	Reference	Support	Status	Comment
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Generic A/V Distribution Profile

Table 1: Roles

Item	Capability	Reference	Support	Status	Comment
1/1	Initiator	2.2	C.1	☑	C.1: It is Mandatory to support at least One of the defined roles.
1/2	Acceptor	2.2	C.1	☑	C.1: It is Mandatory to support at least One of the defined roles.

Table 2: GAVDP Procedures (Initiator)

Prerequisite: GAVDP 1/1 “Initiator”

Item	Capability	Reference	Support	Status	Comment
2/1	Connection Establishment	4.1.1	M	☑	
2/2	Transfer Control - Suspend	4.1.4	O	☑	
2/4	Start Streaming	4.1.2	M	☑	
2/5	Connection Release	4.1.3	M	☑	
2/6	Signaling Control - Abort	4.1.6	M	☑	

Table 2a: GAVDP Initiator Versions

Prerequisite: GAVDP 1/1 “Initiator”

Item	Capability	Reference	Support	Status	Comment
2a/3	GAVDP 1.3	GAVDP 1.3	C.1	☑	C.1: Mandatory to support one and only one profile version.

Table 3: GAVDP Procedures (Acceptor)

Prerequisite: GAVDP 1/2 “Acceptor”

Item	Capability	Reference	Support	Status	Comment
3/1	Connection Establishment	4.1.1, 4.1.2, 4.1.3	M	☑	
3/2	Transfer Control - Suspend	4.1.4	O	☑	
3/4	Start Streaming	4.1.2	M	☑	
3/5	Connection Release	4.1.3	M	☑	
3/6	Signaling Control - Abort	4.1.6	M	☑	

Table 3a: GAVDP Acceptor Versions

Prerequisite: GAVDP 1/2 “Acceptor”

Item	Capability	Reference	Support	Status	Comment
3a/3	GAVDP 1.3	GAVDP 1.3	C.1	☑	C.1: Mandatory to support one and only one profile version.

Host Controller Interface

Table 1a: IUT Configuration

Item	Capability	Reference	Support	Status	Comment
1a/2	Host	[1] 1.0	C.0	<input checked="" type="checkbox"/>	C.0: Mandatory to support at least one of the defined IUT Configurations

Table 1: -

Item	Capability	Reference	Support	Status	Comment
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Table 2: -

Item	Capability	Reference	Support	Status	Comment
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Table 3: -

Item	Capability	Reference	Support	Status	Comment
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Table 4: -

Item	Capability	Reference	Support	Status	Comment
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Table 5: -

Item	Capability	Reference	Support	Status	Comment
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Table 6: -

Item	Capability	Reference	Support	Status	Comment
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Table 7: -

Item	Capability	Reference	Support	Status	Comment
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Table 8: -

Item	Capability	Reference	Support	Status	Comment
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Table 9: -

Item	Capability	Reference	Support	Status	Comment
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Table 10: -

Item	Capability	Reference	Support	Status	Comment
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Table 11: -

Item	Capability	Reference	Support	Status	Comment
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Table 12: -

Item	Capability	Reference	Support	Status	Comment
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Table 13: -

Item	Capability	Reference	Support	Status	Comment
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Table 14: -

Item	Capability	Reference	Support	Status	Comment
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Table 15: -

Item	Capability	Reference	Support	Status	Comment
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Table 16: -

Item	Capability	Reference	Support	Status	Comment
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Table 17: -

Item	Capability	Reference	Support	Status	Comment
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Table 18: -

Item	Capability	Reference	Support	Status	Comment
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Interoperability Test Specification

Table 1: Interoperability Test Specification

Item	Capability	Reference	Support	Status	Comment
1/1	Interoperability	IOP	M	<input checked="" type="checkbox"/>	

Table 2: Design Configuration

Item	Capability	Reference	Support	Status	Comment
2/1	BR/EDR	GAP 0/1	C.1, C.2	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one transport. C.2: Mandatory If IOP 2/3 "BR/EDR/LE" is Supported, otherwise Optional.
2/2	LE	GAP 0/2	C.1, C.2	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one transport. C.2: Mandatory If IOP 2/3 "BR/EDR/LE" is Supported, otherwise Optional.
2/3	BR/EDR/LE	GAP 0/3	C.3	<input checked="" type="checkbox"/>	C.3: Mandatory if IOP 2/1 "BR/EDR" AND IOP 2/2 "LE" is Supported, otherwise Excluded.

Logical Link Control and Adaption Protocol

Table 0: L2CAP Transport Configuration

Item	Capability	Reference	Support	Status	Comment
0/3	BR/EDR/LE	[6] 1.1	C.3	<input checked="" type="checkbox"/>	C.3: Mandatory IF SUMICS 32/1 "Host Specification Part: Logical Link Control and Adaptation Protocol (L2CAP)" AND SUMICS 34/1 "LE Host Specification Part: Logical Link Control and Adaptation Protocol (L2CAP)" are supported, otherwise Excluded.

Table 1: Roles

Item	Capability	Reference	Support	Status	Comment
1/1	Data Channel Initiator	[1] 2	C.3	<input checked="" type="checkbox"/>	C.3: Optional IF (L2CAP 0/1 "BR/EDR" OR L2CAP 0/3 "BR/EDR/LE") is supported, otherwise Excluded.
1/2	Data Channel Acceptor	[1] 2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory IF (L2CAP 0/1 "BR/EDR" OR L2CAP 0/3 "BR/EDR/LE") is supported, otherwise Excluded.
1/3	LE Master	[4] 2	C.2	<input checked="" type="checkbox"/>	C.2: Mandatory to support (at least one of L2CAP 1/3 "LE Master" OR L2CAP 1/4 "LE Slave") IF (L2CAP 0/2 "LE" OR L2CAP 0/3 "BR/EDR/LE") is supported, otherwise Excluded.

1/4	LE Slave	[4] 2	C.2	☑	C.2: Mandatory to support (at least one of L2CAP 1/3 "LE Master" OR L2CAP 1/4 "LE Slave") IF (L2CAP 0/2 "LE" OR L2CAP 0/3 "BR/EDR/LE") is supported, otherwise Excluded.
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Table 2: General Operation

Item	Capability	Reference	Support	Status	Comment
2/1	Support of L2CAP signalling channel	[1] 2.2	C.16	☑	C.16: Mandatory IF L2CAP 0/1 "BR/EDR" OR L2CAP 0/3 "BR/EDR/LE" is supported, otherwise Excluded.
2/2	Support of configuration process	[1] 7.1	C.16	☑	C.16: Mandatory IF L2CAP 0/1 "BR/EDR" OR L2CAP 0/3 "BR/EDR/LE" is supported, otherwise Excluded.
2/3	Support of connection oriented data channel	[1] 2.2	C.16	☑	C.16: Mandatory IF L2CAP 0/1 "BR/EDR" OR L2CAP 0/3 "BR/EDR/LE" is supported, otherwise Excluded.
2/4	Support of command echo request	[1] 4.8	C.17	☑	C.17: Optional IF L2CAP 0/1 "BR/EDR" OR L2CAP 0/3 "BR/EDR/LE" is supported, otherwise Excluded.
2/5	Support of command echo response	[1] 4.9	C.16	☑	C.16: Mandatory IF L2CAP 0/1 "BR/EDR" OR L2CAP 0/3 "BR/EDR/LE" is supported, otherwise Excluded.
2/6	Support of command information request	[1] 4.10	C.17	☑	C.17: Optional IF L2CAP 0/1 "BR/EDR" OR L2CAP 0/3 "BR/EDR/LE" is supported, otherwise Excluded.
2/7	Support of command information response	[1] 4.11	C.16	☑	C.16: Mandatory IF L2CAP 0/1 "BR/EDR" OR L2CAP 0/3 "BR/EDR/LE" is supported, otherwise Excluded.
2/12	Enhanced Retransmission Mode	[2] 8.6	C.11	☑	C.11: Mandatory IF SUMICS 31/17 "4.2+HS" is supported, otherwise Optional.
2/13	Streaming Mode	[2] 8.7	O	☑	
2/14	FCS Option	[2] 5.5	C.1	☑	C.1: Optional IF L2CAP 2/12 "Enhanced Retransmission Mode" OR L2CAP 2/13 "Streaming Mode" is supported, otherwise Excluded.
2/17	Send Selective Reject	[2] 8.6.1.3	C.2	☑	C.2: Optional IF L2CAP 2/12 "Enhanced Retransmission Mode" AND L2CAP 2/28 "Supports configuring the peer TxWindow greater than 1" is supported, otherwise Excluded.
2/20	Optional use of ERTM	[2] 8.6	C.3	☑	C.3: Mandatory to support one of (L2CAP 2/18 "Mandatory use of ERTM" OR L2CAP 2/20 "Optional use of ERTM") IF L2CAP 2/12 "Enhanced Retransmission Mode" is supported, otherwise Excluded.
2/21	Optional use of Streaming Mode	[2] 8.7	C.4	☑	C.4: Mandatory to support one of (L2CAP 2/19 "Mandatory use of Streaming Mode" OR L2CAP 2/21 "Optional use of Streaming Mode") IF L2CAP 2/13 "Streaming Mode" is supported, otherwise Excluded.
2/22	Send data using SAR in ERTM	[2] 3.3.2	C.5	☑	C.5: Optional IF L2CAP 2/12 "Enhanced Retransmission Mode" is supported, otherwise Excluded.
2/23	Send data using SAR in Streaming Mode	[2] 3.3.2	C.6	☑	C.6: Optional IF L2CAP 2/13 "Streaming Mode" is supported, otherwise Excluded.
2/24	Actively request Basic Mode for a PSM that supports the use of ERTM or Streaming Mode	[2] 5.4	C.7	☑	C.7: Optional IF L2CAP 2/12 "Enhanced Retransmission Mode" OR L2CAP 2/13 "Streaming Mode" is supported, otherwise Excluded.
2/25	Supports performing L2CAP channel mode configuration fallback from SM to ERTM	[2] 5.4	C.8	☑	C.8: Mandatory IF L2CAP 2/12 "Enhanced Retransmission Mode" AND L2CAP 2/13 "Streaming Mode" AND L2CAP 2/21 "Optional use of Streaming Mode" are supported, otherwise Excluded.
2/28	Supports configuring the peer TxWindow greater than 1.	[2] 5.4	C.10	☑	C.10: Optional IF L2CAP 2/12 "Enhanced Retransmission Mode" is supported, otherwise Excluded.
2/30	Fixed Channel Support	[3] 2.1	C.11	☑	C.11: Mandatory IF SUMICS 31/18 "Core Spec Version 4.2+HS" is supported, otherwise Optional.
2/40	Support of Low Energy signaling channel	[4] 2.1, 2.2	C.13	☑	C.13: Mandatory IF L2CAP 0/2 "LE" OR L2CAP 0/3 "BR/EDR/LE" is supported, otherwise Excluded.
2/41	Support of command reject	[4] 4.10	C.13	☑	C.13: Mandatory IF L2CAP 0/2 "LE" OR L2CAP 0/3 "BR/EDR/LE" is supported, otherwise Excluded.
2/42	Send Connection Parameter Update Request	[4] 4.20	C.14	☑	C.14: Optional IF L2CAP 1/4 "LE Slave" is supported, otherwise Excluded.
2/43	Send Connection Parameter Update Response	[4] 4.21	C.15	☑	C.15: Mandatory IF L2CAP 1/3 "LE Master" is supported, otherwise Excluded.
2/45	Send Disconnect Request Command	[1] 4.6	C.21	☑	C.21: Optional IF L2CAP 2/1 "L2CAP signaling channel" is supported, otherwise Excluded.

Table 3: Configurable Parameters

Item	Capability	Reference	Support	Status	Comment
3/1	Support of RTX timer	[1] 6.2.1	M	☑	
3/2	Support of ERTX timer	[1] 6.2.2	C.4	☑	C.4: Mandatory IF L2CAP 0/1 "BR/EDR" OR L2CAP 0/3 "BR/EDR/LE" is supported, otherwise Excluded.
3/3	Support minimum MTU size 48 octets	[1] 5.1	C.4	☑	C.4: Mandatory IF L2CAP 0/1 "BR/EDR" OR L2CAP 0/3 "BR/EDR/LE" is supported, otherwise Excluded.
3/4	Support MTU size larger than 48 octets	[1] 5.1	C.5	☑	C.5: Optional IF L2CAP 0/1 "BR/EDR" OR L2CAP 0/3 "BR/EDR/LE" is supported, otherwise Excluded.
3/5	Support of flush timeout value for reliable channel	[1] 5.2	C.4	☑	C.4: Mandatory IF L2CAP 0/1 "BR/EDR" OR L2CAP 0/3 "BR/EDR/LE" is supported, otherwise Excluded.
3/6	Support of flush timeout value for unreliable channel	[1] 5.2	C.5	☑	C.5: Optional IF L2CAP 0/1 "BR/EDR" OR L2CAP 0/3 "BR/EDR/LE" is supported, otherwise Excluded.
3/7	Support of bi-directional quality of service (QoS) option field	[1] 5.3	C.1	☑	C.1: Mandatory IF L2CAP 3/8 "Negotiate QoS service type" is supported, otherwise Optional.
3/12	Support minimum MTU size 23 octets	[4] 5.1	C.6	☑	C.6: Mandatory IF L2CAP 0/2 "LE" OR L2CAP 0/3 "BR/EDR/LE" is supported, otherwise Excluded.

Mesh Profile

Table 0: Major Profile Version (X.Y)

Item	Capability	Reference	Support	Status	Comment
0/1	Mesh v1.0	[2]	M	☑	

Table 0a: Minor Profile Version (X.Y.Z)

Item	Capability	Reference	Support	Status	Comment
0a/1	Erratum 10395	[5]	C.1	☑	C.1: Mandatory IF MESH 0/1 "Mesh v1.0" is supported, otherwise Excluded.

Table 1: Bluetooth Core Specification v4.0 or Later

Item	Capability	Reference	Support	Status	Comment
1/1	Core Specification v4.0 or later	[1]	M	☑	

Table 2: Roles

Item	Capability	Reference	Support	Status	Comment
2/1	Node	[2] 2.3.11	C.1	☑	C.1: Mandatory to support at least one of MESH 2/1 "Node" OR MESH 2/2 "Provisioner"
2/2	Provisioner	[2] 5	C.1	☑	C.1: Mandatory to support at least one of MESH 2/1 "Node" OR MESH 2/2 "Provisioner".

Table 3: Node Capabilities - Bearers

Prerequisite: MESH 2/1

Item	Capability	Reference	Support	Status	Comment
3/1	Advertising Bearer	[2] 3.3.1	C.1	☑	C.1: Mandatory to support at least one of MESH 3/1 "Advertising Bearer" OR MESH 3/2 "GATT Bearer".

Table 4: Node Capabilities - Provisioning

Prerequisite: MESH 2/1

Item	Capability	Reference	Support	Status	Comment
4/1	PB-ADV	[2] 5.2.1	C.1	☑	C.1: Optional IF MESH 3/1 "Advertising Bearer" is supported, otherwise Excluded.
4/3	Device UUID	[2] 3.10.3	C.3	☑	C.3: Mandatory IF MESH 4/1 "PB-ADV" OR MESH 4/2 "PB-GATT" is supported, otherwise Excluded.
4/4	Sending Unprovisioned Device Beacon	[2] 3.9.2	C.4	☑	C.4: Mandatory IF MESH 4/1 "PB-ADV" is supported, otherwise Excluded.
4/5	Generic Provisioning	[2] 5.3	C.3	☑	C.3: Mandatory IF MESH 4/1 "PB-ADV" OR MESH 4/2 "PB-GATT" is supported, otherwise Excluded.

Layer					
4/6	Provisioning Protocol (Provisioning Server)	[2] 5.4	C.3	☑	C.3: Mandatory IF MESH 4/1 "PB-ADV" OR MESH 4/2 "PB-GATT" is supported, otherwise Excluded.
4/7	Provisioning: Public Key OOB	[2] 5.4.1.2	C.5	☑	C.5: Mandatory to support at least one of MESH 4/7 "Provisioning: Public Key OOB" OR MESH 4/8 "Provisioning: Public Key No OOB" IF MESH 4/1 "PB-ADV" OR MESH 4/2 "PB-GATT" is supported, otherwise Excluded.
4/8	Provisioning: Public Key No OOB	[2] 5.4.1.2	C.5	☑	C.5: Mandatory to support at least one of MESH 4/7 "Provisioning: Public Key OOB" OR MESH 4/8 "Provisioning: Public Key No OOB" IF MESH 4/1 "PB-ADV" OR MESH 4/2 "PB-GATT" is supported, otherwise Excluded.
4/9	Provisioning: Authentication Output OOB	[2] 5.4.1.2	C.6	☑	C.6: Optional IF MESH 4/1 "PB-ADV" OR MESH 4/2 "PB-GATT" is supported, otherwise Excluded.
4/10	Provisioning: Authentication Input OOB	[2] 5.4.1.2	C.6	☑	C.6: Optional IF MESH 4/1 "PB-ADV" OR MESH 4/2 "PB-GATT" is supported, otherwise Excluded.
4/11	Provisioning: Authentication Static OOB	[2] 5.4.1.2	C.6	☑	C.6: Optional IF MESH 4/1 "PB-ADV" OR MESH 4/2 "PB-GATT" is supported, otherwise Excluded.
4/12	Provisioning: Authentication No OOB	[2] 5.4.1.2	C.3	☑	C.3: Mandatory IF MESH 4/1 "PB-ADV" OR MESH 4/2 "PB-GATT" is supported, otherwise Excluded.

Table 5: Node Capabilities – Network Layer

Prerequisite: MESH 2/1

Item	Capability	Reference	Support	Status	Comment
5/1	Transmitting and Receiving Secured Network Layer Messages	[2] 3.4.6.2, 3.4.6.3	M	☑	
5/2	Relay Feature	[2] 3.4.6.1	C.1	☑	C.1: Optional IF MESH 3/1 "Advertising Bearer" is supported, otherwise Excluded.
5/3	Network Message Cache	[2] 3.4.6.4	C.2	☑	C.2: Mandatory IF MESH 5/2 "Relay Feature" is supported, otherwise Excluded.

Table 6: Node Capabilities – Lower Transport Layer

Prerequisite: MESH 2/1

Item	Capability	Reference	Support	Status	Comment
6/1	Transmitting and Receiving a Lower Transport PDU	[2] 3.5.4.1, 3.5.4.2	M	☑	
6/2	Segmentation and Reassembly Behavior	[2] 3.5.3.3, 3.5.3.4	M	☑	
6/3	Friend Cache	[2] 3.5.5	C.1	☑	C.1: Mandatory IF MESH 7/3 "Friend Feature" is supported, otherwise Excluded.

Table 7: Upper Transport Layer

Prerequisite: MESH 2/1

Item	Capability	Reference	Support	Status	Comment
7/1	Transmitting a Secured Access Payload	[2] 3.6.4.1	M	☑	
7/2	Receiving a Secured Upper Transport PDU	[2] 3.6.4.2	M	☑	
7/3	Friend Feature	[2] 3.6.6.3	C.1	☑	C.1: Optional IF MESH 3/1 "Advertising Bearer" is supported, otherwise Excluded.
7/4	Low Power Feature	[2] 3.6.6.4	C.1	☑	C.1: Optional IF MESH 3/1 "Advertising Bearer" is supported, otherwise Excluded.
7/5	Heartbeat	[2] 3.6.7	M	☑	

Table 8: Node Capabilities – Access Layer

Prerequisite: MESH 2/1

Item	Capability	Reference	Support	Status	Comment
8/1	Transmitting and Receiving an Access Layer Message	[2] 3.7.4.1	M	☑	

Table 9: Node Capabilities – Security

Prerequisite: MESH 2/1

Item	Capability	Reference	Support	Status	Comment
9/1	Message Replay Protection	[2] 3.8.7	M	<input checked="" type="checkbox"/>	

Table 10: Node Capabilities – Mesh Management

Prerequisite: MESH 2/1

Item	Capability	Reference	Support	Status	Comment
10/1	Secure Network Beacon	[2] 3.9.3	M	<input checked="" type="checkbox"/>	
10/2	Key Refresh Procedure	[2] 3.10.4	M	<input checked="" type="checkbox"/>	
10/3	IV Update Procedure	[2] 3.10.5	M	<input checked="" type="checkbox"/>	
10/4	IV Index Recovery Procedure	[2] 3.10.6	M	<input checked="" type="checkbox"/>	

Table 11: Node Capabilities – Foundation Mesh Models

Prerequisite: MESH 2/1

Item	Capability	Reference	Support	Status	Comment
11/1	Configuration Server Model	[2] 4.4.1	M	<input checked="" type="checkbox"/>	
11/2	Health Server Model	[2] 4.4.3	M	<input checked="" type="checkbox"/>	
11/3	Configuration Client Model	[2] 4.4.2	O	<input checked="" type="checkbox"/>	
11/4	Health Client Model	[2] 4.4.4	O	<input checked="" type="checkbox"/>	

Table 12: Node Capabilities – Proxy

Item	Capability	Reference	Support	Status	Comment
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Table 13: Mesh GATT Services

Prerequisite: MESH 12/2

Item	Capability	Reference	Support	Status	Comment
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Table 14: GATT Server Requirements

Prerequisite: MESH 12/2

Item	Capability	Reference	Support	Status	Comment
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Table 15: GATT Client Requirements

Prerequisite: MESH 12/6

Item	Capability	Reference	Support	Status	Comment
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Table 16: GAP Requirements

Prerequisite: MESH 2/1 “Node”

Item	Capability	Reference	Support	Status	Comment
16/1	Broadcaster	[2] 3.3.1 [4] GAP 5/1 OR GAP 38/1	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory IF MESH 3/1 “Advertising Bearer” is supported, otherwise Excluded.
16/2	Observer	[2] 3.3.1 [4] GAP 5/2 OR GAP 38/2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory IF MESH 3/1 “Advertising Bearer” is supported, otherwise Excluded.

Table 17: Provisioner – Bearers

Prerequisite: MESH 2/2

Item	Capability	Reference	Support	Status	Comment
17/1	Advertising Bearer	[2] 3.3.1	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one of the MESH 17/1 “Advertising Bearer” OR MESH 17/2 “GATT Bearer”.

Table 18: Provisioner – Provisioning

Prerequisite: MESH 2/2

Item	Capability	Reference	Support	Status	Comment
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Item	Capability	Reference	Support	Status	Comment
18/1	Receiving Unprovisioned Device Beacon	[2] 3.9.2	C.1	☑	C.1: Mandatory to support IF MESH 17/1 “Advertising bearer” is supported, otherwise Excluded.
18/2	PB-ADV	[2] 5.2.1	C.1	☑	C.1: Mandatory to support IF MESH 17/1 “Advertising bearer” is supported, otherwise Excluded.
18/3	Generic Provisioning Layer	[2] 5.3	M	☑	
18/4	Provisioning Protocol (Provisioning Client)	[2] 5.4	M	☑	
18/7	Provisioning: Public Key OOB	[2] 5.4.1.2	M	☑	
18/8	Provisioning: Public Key No OOB	[2] 5.4.1.2	M	☑	
18/9	Provisioning: Authentication Output OOB	[2] 5.4.1.2	M	☑	
18/10	Provisioning: Authentication Input OOB	[2] 5.4.1.2	M	☑	
18/11	Provisioning: Authentication Static or No OOB	[2] 5.4.1.2, 5.4.3	M	☑	

Table 19: Provisioner – Mesh Management

Prerequisite: MESH 2/2

Item	Capability	Reference	Support	Status	Comment
19/1	Receiving Secure Network Beacon	[2] 2.9.3	M	☑	

Table 20: GATT Client Requirements

Prerequisite: MESH 18/6

Item	Capability	Reference	Support	Status	Comment
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Table 21: GAP Requirements

Prerequisite: MESH 2/2

Item	Capability	Reference	Support	Status	Comment
21/1	Broadcaster	[2] 3.3.1 [4] GAP 5/1 OR GAP 38/1	C.1	☑	C.1: Mandatory IF MESH 17/1 “Advertising Bearer” is supported, otherwise Excluded.
21/2	Observer	[2] 3.3.1 [4] GAP 5/2 OR GAP 38/2	C.1	☑	C.1: Mandatory IF MESH 17/1 “Advertising Bearer” is supported, otherwise Excluded.

Mesh Model

Table 0a: Mesh Specification Versions

Item	Capability	Reference	Support	Status	Comment
0a/1	Mesh Specification v1.0	[3]	M	☑	

Table 0b: Mesh Model Major Specification Versions

Item	Capability	Reference	Support	Status	Comment
0b/1	Mesh Model Specification v1.0	[2]	M	☑	

Table 0c: Mesh Model Minor Specification Versions

Item	Capability	Reference	Support	Status	Comment
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Table 1: Bluetooth Core Specification Versions

Item	Capability	Reference	Support	Status	Comment
1/1	Core Specification 4.0 or later	[1]	M	☑	

Table 2: Generic Server Models

Item	Capability	Reference	Support	Status	Comment
2/1	Generic OnOff Server	[2] 3.3.1	O	☑	
2/2	Generic Level Server	[2] 3.3.2	O	☑	
2/3	Generic Default Transition Time Client	[2] 3.3.3	O	☑	
2/4	Generic Power OnOff Server	[2] 3.3.4	C.1	☑	C.1: Optional IF MMDL 2/1 "Generic OnOff Server" is supported, otherwise Excluded.
2/5	Generic Power OnOff Setup Server	[2] 3.3.5	C.2	☑	C.2: Mandatory IF MMDL 2/3 "Generic Default Transition Timer Server" AND MMDL 2/4 "Generic Power OnOff Server" are supported, otherwise Excluded.
2/6	Generic Power Level Server	[2] 3.3.6	C.3	☑	C.3: Optional IF MMDL 2/2 "Generic Level Server" AND MMDL 2/4 "Generic Power OnOff Server" are supported, otherwise Excluded.
2/7	Generic Power Level Setup Server	[2] 3.3.7	C.4	☑	C.4: Mandatory IF MMDL 2/5 "Generic Power OnOff Setup Server" AND MMDL 2/6 "Generic Power Level Server" are supported, otherwise Excluded.
2/8	Generic Battery Server	[2] 3.3.8	O	☑	

Table 3: Generic Client Models

Item	Capability	Reference	Support	Status	Comment
3/1	Generic OnOff Client	[2] 3.4.1	O	☑	
3/2	Generic Level Client	[2] 3.4.2	O	☑	
3/3	Generic Default Transition Time Client	[2] 3.4.3	O	☑	
3/4	Generic Power OnOff Client	[2] 3.4.4	O	☑	
3/5	Generic Power Level Client	[2] 3.4.5	O	☑	
3/6	Generic Battery Client	[2] 3.4.6	O	☑	

Table 4: Generic OnOff Client

Prerequisite: MMDL 3/1 "Generic OnOff Client"

Item	Capability	Reference	Support	Status	Comment
4/1	Generic OnOff Get/Status	[2] 3.4.1.2	C.1	☑	C.1: Mandatory to support at least one of MMDL 4/1 "Generic OnOff Get/Status" OR MMDL 4/2 "Generic OnOff Set/Status" OR MMDL 4/3 "Generic OnOff Set Unacknowledged".
4/2	Generic OnOff Set/Status	[2] 3.4.1.2	C.1	☑	C.1: Mandatory to support at least one of MMDL 4/1 "Generic OnOff Get/Status" OR MMDL 4/2 "Generic OnOff Set/Status" OR MMDL 4/3 "Generic OnOff Set Unacknowledged".
4/3	Generic OnOff Set Unacknowledged	[2] 3.4.1.2	C.1	☑	C.1: Mandatory to support at least one of MMDL 4/1 "Generic OnOff Get/Status" OR MMDL 4/2 "Generic OnOff Set/Status" OR MMDL 4/3 "Generic OnOff Set Unacknowledged".

Table 5: Generic Level Client

Prerequisite: MMDL 3/2

Item	Capability	Reference	Support	Status	Comment
5/1	Generic Level Get/Status	[2] 3.4.2.2	C.1	☑	C.1: Mandatory to support at least one of MMDL 5/1 "Generic Level Get/Status" OR MMDL 5/2 "Generic Level Set/Status" OR MMDL 5/3 "Generic Level Set Unacknowledged" OR MMDL 5/4 "Generic Delta Set/Status" OR MMDL 5/5 "Generic Delta Set Unacknowledged" OR MMDL 5/6 "Generic Move Set/Status" OR MMDL 5/7 "Generic Move Set Unacknowledged".
5/2	Generic Level Set/Status	[2] 3.4.2.2	C.1	☑	C.1: Mandatory to support at least one of MMDL 5/1 "Generic Level Get/Status" OR MMDL 5/2 "Generic Level Set/Status" OR MMDL 5/3 "Generic Level Set Unacknowledged" OR MMDL 5/4 "Generic Delta Set/Status" OR MMDL 5/5 "Generic Delta Set Unacknowledged" OR MMDL 5/6 "Generic Move Set/Status" OR MMDL 5/7 "Generic Move Set Unacknowledged".
5/3	Generic Level Set Unacknowledged	[2] 3.4.2.2	C.1	☑	C.1: Mandatory to support at least one of MMDL 5/1 "Generic Level Get/Status" OR MMDL 5/2 "Generic Level Set/Status" OR MMDL 5/3 "Generic Level Set Unacknowledged" OR MMDL 5/4 "Generic Delta Set/Status" OR MMDL 5/5 "Generic Delta Set Unacknowledged" OR MMDL 5/6 "Generic Move Set/Status" OR MMDL 5/7 "Generic Move Set Unacknowledged".
5/4	Generic Delta Set/Status	[2] 3.4.2.2	C.1	☑	C.1: Mandatory to support at least one of MMDL 5/1 "Generic Level Get/Status" OR MMDL 5/2 "Generic Level Set/Status" OR MMDL 5/3 "Generic Level Set Unacknowledged" OR MMDL 5/4 "Generic Delta Set/Status" OR MMDL 5/5 "Generic Delta Set Unacknowledged" OR MMDL 5/6 "Generic Move Set/Status" OR MMDL 5/7 "Generic Move Set Unacknowledged".
5/5	Generic Delta Set Unacknowledged	[2] 3.4.2.2	C.1	☑	C.1: Mandatory to support at least one of MMDL 5/1 "Generic Level Get/Status" OR MMDL 5/2 "Generic Level Set/Status" OR MMDL 5/3 "Generic Level Set Unacknowledged" OR MMDL 5/4 "Generic Delta Set/Status" OR MMDL 5/5 "Generic Delta Set Unacknowledged" OR MMDL 5/6 "Generic Move Set/Status" OR MMDL 5/7 "Generic Move Set Unacknowledged".

MMDL 8/8 "Generic Power Range Get/Status" OR MMDL 8/9 "Generic Power Range Set/Status" OR MMDL 8/10 "Generic Power Range Set Unacknowledged".					
8/6	Generic Power Default Set/Status	[2] 3.4.5.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one of MMDL 8/1 "Generic Power Level Get/Status" OR MMDL 8/2 "Generic Power Level Set/Status" OR MMDL 8/3 "Generic Power Level Set Unacknowledged" OR MMDL 8/4 "Generic Power Last Get/Status" OR MMDL 8/5 "Generic Power Default Get/Status" OR MMDL 8/6 "Generic Power Default Set/Status" OR MMDL 8/7 "Generic Power Default Set Unacknowledged" OR MMDL 8/8 "Generic Power Range Get/Status" OR MMDL 8/9 "Generic Power Range Set/Status" OR MMDL 8/10 "Generic Power Range Set Unacknowledged".
8/7	Generic Power Default Set Unacknowledged	[2] 3.4.5.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one of MMDL 8/1 "Generic Power Level Get/Status" OR MMDL 8/2 "Generic Power Level Set/Status" OR MMDL 8/3 "Generic Power Level Set Unacknowledged" OR MMDL 8/4 "Generic Power Last Get/Status" OR MMDL 8/5 "Generic Power Default Get/Status" OR MMDL 8/6 "Generic Power Default Set/Status" OR MMDL 8/7 "Generic Power Default Set Unacknowledged" OR MMDL 8/8 "Generic Power Range Get/Status" OR MMDL 8/9 "Generic Power Range Set/Status" OR MMDL 8/10 "Generic Power Range Set Unacknowledged".
8/8	Generic Power Range Get/Status	[2] 3.4.5.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one of MMDL 8/1 "Generic Power Level Get/Status" OR MMDL 8/2 "Generic Power Level Set/Status" OR MMDL 8/3 "Generic Power Level Set Unacknowledged" OR MMDL 8/4 "Generic Power Last Get/Status" OR MMDL 8/5 "Generic Power Default Get/Status" OR MMDL 8/6 "Generic Power Default Set/Status" OR MMDL 8/7 "Generic Power Default Set Unacknowledged" OR MMDL 8/8 "Generic Power Range Get/Status" OR MMDL 8/9 "Generic Power Range Set/Status" OR MMDL 8/10 "Generic Power Range Set Unacknowledged".
8/9	Generic Power Range Set/Status	[2] 3.4.5.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one of MMDL 8/1 "Generic Power Level Get/Status" OR MMDL 8/2 "Generic Power Level Set/Status" OR MMDL 8/3 "Generic Power Level Set Unacknowledged" OR MMDL 8/4 "Generic Power Last Get/Status" OR MMDL 8/5 "Generic Power Default Get/Status" OR MMDL 8/6 "Generic Power Default Set/Status" OR MMDL 8/7 "Generic Power Default Set Unacknowledged" OR MMDL 8/8 "Generic Power Range Get/Status" OR MMDL 8/9 "Generic Power Range Set/Status" OR MMDL 8/10 "Generic Power Range Set Unacknowledged".
8/10	Generic Power Range Set Unacknowledged	[2] 3.4.5.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one of MMDL 8/1 "Generic Power Level Get/Status" OR MMDL 8/2 "Generic Power Level Set/Status" OR MMDL 8/3 "Generic Power Level Set Unacknowledged" OR MMDL 8/4 "Generic Power Last Get/Status" OR MMDL 8/5 "Generic Power Default Get/Status" OR MMDL 8/6 "Generic Power Default Set/Status" OR MMDL 8/7 "Generic Power Default Set Unacknowledged" OR MMDL 8/8 "Generic Power Range Get/Status" OR MMDL 8/9 "Generic Power Range Set/Status" OR MMDL 8/10 "Generic Power Range Set Unacknowledged".

Table 9: Generic Location Client

Prerequisite: MMDL 3/7

Item	Capability	Reference	Support	Status	Comment
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Table 10: Generic Property Client

Prerequisite: MMDL 3/8

Item	Capability	Reference	Support	Status	Comment
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Table 11: Sensor Server Models

Item	Capability	Reference	Support	Status	Comment
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Table 12: Sensor Client Models

Item	Capability	Reference	Support	Status	Comment
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Table 13: Sensor Client

Prerequisite: MMDL 12/1

Item	Capability	Reference	Support	Status	Comment
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Table 14: Time and Scenes Server Models

Item	Capability	Reference	Support	Status	Comment
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Table 15: Time and Scenes Client Models

Prerequisite: MMDL 3/2

Item	Capability	Reference	Support	Status	Comment
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Table 16: Time Client

Prerequisite: MMDL 15/1

Item	Capability	Reference	Support	Status	Comment
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Table 17: Scene Client

Prerequisite: MMDL 15/2

Item	Capability	Reference	Support	Status	Comment
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Table 18: Scheduler Client

Prerequisite: MMDL 15/3

Item	Capability	Reference	Support	Status	Comment
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Table 19: Lighting Server Models

Item	Capability	Reference	Support	Status	Comment
19/1	Light Lightness Server	[2] 6.4.1	C.1	☑	C.1: Optional IF MMDL 2/2 "Generic Lever Server" AND MMDL 2/4 "Generic Power OnOff Server" are supported, otherwise Excluded.
19/2	Light Lightness Setup Server	[2] 6.4.2	C.2	☑	C.2: Mandatory IF MMDL 2/5 "Generic Power OnOff Setup Server" AND MMDL 19/1 "Light Lightness Server" are supported, otherwise Excluded.
19/3	Light CTL Server	[2] 6.4.3	C.3	☑	C.3: Optional IF MMDL 19/1 "Light Lightness Server" is supported, otherwise Excluded.
19/4	Light CTL Temperature Server	[2] 6.4.4	C.4	☑	C.4: Mandatory IF MMDL 19/3 "Light CTL Server" is supported, otherwise Excluded.
19/5	Light CTL Setup Server	[2] 6.4.5	C.5	☑	C.5: Mandatory IF MMDL 19/2 "Light Lightness Setup Server" AND MMDL 19/3 "Light CTL Server" are supported, otherwise Excluded.
19/6	Light HSL Server	[2] 6.4.6	C.3	☑	C.3: Optional IF MMDL 19/1 "Light Lightness Server" is supported, otherwise Excluded.
19/7	Light HSL Hue Server	[2] 6.4.7	C.6	☑	C.6: Mandatory IF MMDL 19/6 "Light HSL Server" is supported, otherwise Excluded.
19/8	Light HSL Saturation Server	[2] 6.4.8	C.6	☑	C.6: Mandatory IF MMDL 19/6 "Light HSL Server" is supported, otherwise Excluded.
19/9	Light HSL Setup Server	[2] 6.4.9	C.7	☑	C.7: Mandatory IF MMDL 19/2 "Light Lightness Setup Server" AND MMDL 19/6 "Light HSL Server" are supported, otherwise Excluded.

Table 20: Lighting Control Models

Item	Capability	Reference	Support	Status	Comment
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Table 21: Lighting Client Models

Item	Capability	Reference	Support	Status	Comment
21/1	Light Lightness Client	[2] 6.6.1	O	☑	
21/2	Light CTL Client	[2] 6.6.2	O	☑	
21/3	Light HSL Client	[2] 6.6.3	O	☑	

Table 22: Light Lightness Client

Prerequisite: MMDL 21/1

Item	Capability	Reference	Support	Status	Comment
22/1	Light Lightness Get/Status	[2] 6.6.1.2	C.1	☑	C.1: Mandatory to support at least one of MMDL 22/1 "Light Lightness Get/Status" OR MMDL 22/2 "Light Lightness Set/Status" OR MMDL 22/3 "Light Lightness Set Unacknowledged" OR MMDL 22/4 "Light Lightness Linear Get/Status" OR MMDL 22/5 "Light Lightness Linear Set/Status" OR MMDL 22/6 "Light Lightness Linear Set Unacknowledged" OR MMDL 22/7 "Light Lightness Last Get/Status" OR MMDL 22/8 "Light Lightness Default Get/Status" OR MMDL 22/9 "Light Lightness Default Set/Status" OR MMDL 22/10 "Light Lightness Default Set Unacknowledged" OR MMDL 22/11 "Light Lightness Range Get/Status" OR MMDL 22/12 "Light Lightness Range Set/Status" OR MMDL 22/13 "Light Lightness Range Set Unacknowledged".
22/2	Light Lightness Set/Status	[2] 6.6.1.2	C.1	☑	C.1: Mandatory to support at least one of MMDL 22/1 "Light Lightness Get/Status" OR MMDL 22/2 "Light Lightness Set/Status" OR MMDL 22/3 "Light Lightness Set Unacknowledged" OR MMDL 22/4 "Light Lightness Linear Get/Status" OR MMDL 22/5 "Light Lightness Linear Set/Status" OR MMDL 22/6 "Light

[illegible]

[illegible]

					Set/Status" OR MMDL 24/7 "Light HSL Default Set Unacknowledged" OR MMDL 24/8 "Light HSL Range Get/Status" OR MMDL 24/9 "Light HSL Range Set/Status" OR MMDL 24/10 "Light HSL Range Set Unacknowledged" OR MMDL 24/11 "Light HSL Hue Get/Status" OR MMDL 24/12 "Light HSL Hue Set/Status" OR MMDL 24/13 "Light HSL Hue Set Unacknowledged" OR MMDL 24/14 "Light HSL Saturation Get/Status" OR MMDL 24/15 "Light HSL Saturation Set/Status" OR MMDL 24/16 "Light HSL Saturation Set Unacknowledged".
24/13	Light HSL Hue Set Unacknowledged	[2] 6.6.3.5	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one of MMDL 24/1 "Light HSL Get/Status" OR MMDL 24/2 "Light HSL Set/Status" OR MMDL 24/3 "Light HSL Set Unacknowledged" OR MMDL 24/4 "Light HSL Target Get/Status" OR MMDL 24/5 "Light HSL Default Get/Status" OR MMDL 24/6 "Light HSL Default Set/Status" OR MMDL 24/7 "Light HSL Default Set Unacknowledged" OR MMDL 24/8 "Light HSL Range Get/Status" OR MMDL 24/9 "Light HSL Range Set/Status" OR MMDL 24/10 "Light HSL Range Set Unacknowledged" OR MMDL 24/11 "Light HSL Hue Get/Status" OR MMDL 24/12 "Light HSL Hue Set/Status" OR MMDL 24/13 "Light HSL Hue Set Unacknowledged" OR MMDL 24/14 "Light HSL Saturation Get/Status" OR MMDL 24/15 "Light HSL Saturation Set/Status" OR MMDL 24/16 "Light HSL Saturation Set Unacknowledged".
24/14	Light HSL Saturation Get/Status	[2] 6.6.3.6	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one of MMDL 24/1 "Light HSL Get/Status" OR MMDL 24/2 "Light HSL Set/Status" OR MMDL 24/3 "Light HSL Set Unacknowledged" OR MMDL 24/4 "Light HSL Target Get/Status" OR MMDL 24/5 "Light HSL Default Get/Status" OR MMDL 24/6 "Light HSL Default Set/Status" OR MMDL 24/7 "Light HSL Default Set Unacknowledged" OR MMDL 24/8 "Light HSL Range Get/Status" OR MMDL 24/9 "Light HSL Range Set/Status" OR MMDL 24/10 "Light HSL Range Set Unacknowledged" OR MMDL 24/11 "Light HSL Hue Get/Status" OR MMDL 24/12 "Light HSL Hue Set/Status" OR MMDL 24/13 "Light HSL Hue Set Unacknowledged" OR MMDL 24/14 "Light HSL Saturation Get/Status" OR MMDL 24/15 "Light HSL Saturation Set/Status" OR MMDL 24/16 "Light HSL Saturation Set Unacknowledged".
24/15	Light HSL Saturation Set/Status	[2] 6.6.3.6	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one of MMDL 24/1 "Light HSL Get/Status" OR MMDL 24/2 "Light HSL Set/Status" OR MMDL 24/3 "Light HSL Set Unacknowledged" OR MMDL 24/4 "Light HSL Target Get/Status" OR MMDL 24/5 "Light HSL Default Get/Status" OR MMDL 24/6 "Light HSL Default Set/Status" OR MMDL 24/7 "Light HSL Default Set Unacknowledged" OR MMDL 24/8 "Light HSL Range Get/Status" OR MMDL 24/9 "Light HSL Range Set/Status" OR MMDL 24/10 "Light HSL Range Set Unacknowledged" OR MMDL 24/11 "Light HSL Hue Get/Status" OR MMDL 24/12 "Light HSL Hue Set/Status" OR MMDL 24/13 "Light HSL Hue Set Unacknowledged" OR MMDL 24/14 "Light HSL Saturation Get/Status" OR MMDL 24/15 "Light HSL Saturation Set/Status" OR MMDL 24/16 "Light HSL Saturation Set Unacknowledged".
24/16	Light HSL Saturation Set Unacknowledged	[2] 6.6.3.6	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one of MMDL 24/1 "Light HSL Get/Status" OR MMDL 24/2 "Light HSL Set/Status" OR MMDL 24/3 "Light HSL Set Unacknowledged" OR MMDL 24/4 "Light HSL Target Get/Status" OR MMDL 24/5 "Light HSL Default Get/Status" OR MMDL 24/6 "Light HSL Default Set/Status" OR MMDL 24/7 "Light HSL Default Set Unacknowledged" OR MMDL 24/8 "Light HSL Range Get/Status" OR MMDL 24/9 "Light HSL Range Set/Status" OR MMDL 24/10 "Light HSL Range Set Unacknowledged" OR MMDL 24/11 "Light HSL Hue Get/Status" OR MMDL 24/12 "Light HSL Hue Set/Status" OR MMDL 24/13 "Light HSL Hue Set Unacknowledged" OR MMDL 24/14 "Light HSL Saturation Get/Status" OR MMDL 24/15 "Light HSL Saturation Set/Status" OR MMDL 24/16 "Light HSL Saturation Set Unacknowledged".

Table 25: Light xyl Client

Prerequisite: MMDL 21/4

Item	Capability	Reference	Support	Status	Comment
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Table 26: Light LC Client

Prerequisite: MMDL 21/5

Item	Capability	Reference	Support	Status	Comment
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Table 27: States on Secondary Elements

Item	Capability	Reference	Support	Status	Comment
27/2	Generic Level State on Secondary Elements	[2] 6.4.3, 6.4.6	C.2	<input checked="" type="checkbox"/>	C.2: Mandatory IF MMDL 19/3 ?ight CTL Server?OR MMDL 19/6 ?ight HSL Server?are supported, otherwise Optional.

RFCOMM

Table 0: Protocol Versions

Item	Capability	Reference	Support	Status	Comment
0/1	RFCOMM 1.1 with TS 07.10	RFCOMM 1.1	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support one and only one of the protocol versions.

Table 1: Supported Procedures

Item	Capability	Reference	Support	Status	Comment
1/1	Initialize RFCOMM session	[1] 5.2.1	C.5	☑	C.5: Mandatory to support at least one of RFCOMM 1/1 "Initialize RFCOMM Session" OR RFCOMM 1/2 "Respond to Initialization of an RFCOMM Session".
1/2	Respond to initialisation of an RFCOMM session	[1] 5.2.1	C.5	☑	C.5: Mandatory to support at least one of RFCOMM 1/1 "Initialize RFCOMM Session" OR RFCOMM 1/2 "Respond to Initialization of an RFCOMM Session".
1/3	Shutdown RFCOMM session	[1] 5.2.2	M	☑	
1/4	Respond to a shutdown for an RFCOMM session	[1] 5.2.2	M	☑	
1/5	Establish DLC	[1] 5.2.1	C.2	☑	C.2: Mandatory IF RFCOMM 1/1 "Initialize RFCOMM Session" is supported, otherwise Excluded.
1/6	Respond to establishment of a DLC	[1] 5.2.1	C.1	☑	C.1: Mandatory IF RFCOMM 1/2 "Respond to Initialization of an RFCOMM Session" is supported, otherwise Excluded.
1/7	Disconnect DLC	[1] 5.2	M	☑	
1/8	Respond to disconnection of a DLC	[1] 5.2	M	☑	
1/9	Respond to and send MSC command	[1] 2.2	M	☑	
1/10	Initiate Transfer Information	[1] 5.1	M	☑	
1/11	Respond to Test command	[1] 4.3	M	☑	
1/12	Send Test command	[1] 4.3	O	☑	
1/13	React to aggregate flow control	[1] 6.3	M	☑	
1/14	Respond to RLS command	[1] 5.5.2	M	☑	
1/16	Respond to PN command	[1] 5.5.3	M	☑	
1/17	Send PN command	[1] 5.5.3	C.3	☑	C.3: Mandatory IF RFCOMM 1/1 "Initialize RFCOMM Session" is supported, otherwise Optional.
1/19	Respond to RPN command	[1] 5.5.1	M	☑	
1/20	Send RPN command	[1] 5.5.1	O	☑	
1/22	Support of Credit Based Flow Control	[1] 6.5	M	☑	

Service Discovery Protocol

Table 1: Support Different Size Capabilities on UUID

Item	Capability	Reference	Support	Status	Comment
1/1	Support for 128 bit UUID	[1] 2.7.1	M	☑	
1/2	Support for 32 bit UUID	[1] 2.7.1	M	☑	
1/3	Support for 16 bit UUID	[1] 2.7.1	M	☑	

Table 1b: Roles

Item	Capability	Reference	Support	Status	Comment
1b/1	Support for Server role	[1] 2.1	C.1	☑	C.1: Mandatory to support at least one of the defined roles.
1b/2	Support for Client role	[1] 2.1	C.1	☑	C.1: Mandatory to support at least one of the defined roles.

Table 2: Valid Service Search Request

Item	Capability	Reference	Support	Status	Comment
2/1	Support for respond on search of single Service, using ServiceSearchRequest.	[1] 4.5	C.2	☑	C.2: Mandatory to support IF SDP 1b/1 "Server role" is supported.
2/3	Search for services using the continuation state.	[1] 4.3	C.1	☑	C.1: Mandatory to support IF SDP 1b/2 "Client role" is supported.

Table 3: Invalid Service Search Request

Item	Capability	Reference	Support	Status	Comment
3/1	Support for error response on Service search request.	[1] 4.4	M	☑	

Table 4: Valid Service Attribute Request

Item	Capability	Reference	Support	Status	Comment
4/1	Support for respond on search of Attribute(s)	[1] 4.6	M	☑	
4/3	Support for respond on search on attribute AdditionalProtocolDescriptorList	[1] 4.5, 5.1.6	O	☑	

Table 5: Invalid Service Attribute Request

Item	Capability	Reference	Support	Status	Comment
5/1	Support for error response on Attribute search request.	[1] 4.4	M	☑	

Table 6: Valid Service Search Attribute Request

Item	Capability	Reference	Support	Status	Comment
6/1	Support for respond on search for Service(s) and Attribute(s)	[1] 4.7	M	☑	
6/3	Support for respond on search on attribute AdditionalProtocolDescriptorList on existing service	[1] 4.7, 5.1.6	O	☑	

Table 7: Invalid Service Search Attribute Request

Item	Capability	Reference	Support	Status	Comment
7/1	Support for error response on Service and Attribute request.	[1] 4.4	M	☑	

Table 8: Service Browsing

Item	Capability	Reference	Support	Status	Comment
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Table 9: Attributes Present in IUT

Item	Capability	Reference	Support	Status	Comment
9/2	ProtocolDescriptorList	[5] 5.1.5	O	☑	
9/9	ServiceName	[5] 5.1.15	O	☑	
9/10	ServiceDescription	[5] 5.1.16	O	☑	
9/14	BluetoothProfileDescriptorList	[5] 5.1.11	O	☑	
9/18	ServiceRecordHandle	[5] 5.1.1	M	☑	
9/19	ServiceClassIDList	[5] 5.1.2	M	☑	

Security Manager Protocol

Table 4: Pairing Method

Item	Capability	Reference	Support	Status	Comment
4/1	Just Works	[1] 2.3.5	O	☑	
4/2	Passkey Entry	[1] 2.3.5	C.1	☑	C.1: Mandatory to support at least one of the defined methods IF 2/1 "Authentication MITM protection" is supported, otherwise Excluded.

Table 1: Role

Item	Capability	Reference	Support	Status	Comment
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1/1	Master Role (Initiator)	[1] 2.4	C.1	☑	C.1: Mandatory to support IF 1/2 "Slave Role (Responder)" is NOT supported, otherwise Optional.
1/2	Slave Role (Responder)	[1] 2.4	C.2	☑	C.2: Optional IF GAP 5/3 "LE Roles – Peripheral Role" OR GAP 38/3 "BR/EDR/LE Roles – Peripheral Role" are supported, otherwise Excluded.

Table 2: Security Properties

Item	Capability	Reference	Support	Status	Comment
2/1	Authenticated MITM protection	[1] 2.3.1	O	☑	
2/2	Unauthenticated no MITM protection	[1] 2.3.1	C.1	☑	C.1: Mandatory IF 2/1 "Authenticated MITM protection" is supported, otherwise Optional.
2/3	No security requirements	[1] 2.3.1	M	☑	

Table 3: Encryption Key Size

Item	Capability	Reference	Support	Status	Comment
3/1	Encryption Key Size	[1] 2.3.4	M	☑	

Table 5: Security Initiation

Item	Capability	Reference	Support	Status	Comment
5/1	Encryption Setup using STK	[1] 2.4	C.3	☑	C.3: Mandatory IF 2/1 "Authenticated MITM protection" OR 2/2 "Unauthenticated no MITM protection" OR 2/4 "OOB supported" is supported, otherwise Excluded.
5/2	Encryption Setup using LTK	[1] 2.4	O	☑	
5/3	Slave Initiated Security	[1] 2.4.6	C.1	☑	C.1: Optional IF 1/2 "Slave Role" is supported, otherwise Excluded.
5/4	Slave Initiated Security – Master response	[1] 2.4.6	C.2	☑	C.2: Mandatory IF 1/1 "Master Role" is supported, otherwise Excluded.

Table 6: Signing Algorithm

Item	Capability	Reference	Support	Status	Comment
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Table 7: Key Distribution

Item	Capability	Reference	Support	Status	Comment
7/1	Encryption Key	[2] 9.4.3	C.1	☑	C.1: Mandatory IF GAP 24/2 "Bondable Mode" OR GAP 42/6 "Bondable Mode" is supported, otherwise Optional.

Serial Port Profile

Table 0: Profile Version

Item	Capability	Reference	Support	Status	Comment
0/2	SPP v1.2	SPP v1.2	C.1	☑	C.1: Mandatory to support only one Profile version.

Table 1: Device Role

Item	Capability	Reference	Support	Status	Comment
1/1	Device A (DevA)	SPP, 2.2	C.1	☑	C.1: Mandatory to support at least one of the defined roles.
1/2	Device B (DevB)	[1] 2.2	C.1	☑	C.1: Mandatory to support at least one of the defined roles.

Table 2: Support of Serial Profile Service

Item	Capability	Reference	Support	Status	Comment
2/1	Support of Serial Profile Service	SPP, 1.2	C.1	☑	C.1: Mandatory for devices that support Serial Profile for serial cable emulation as a Bluetooth service. Irrelevant for devices that support Serial Profile for usage by another application profile e.g. FAX, DUN, HFP
2/1a	Support of Serial Profile Service – Device A (DevA)	[1] 1.2	C.2	☑	C.2: Mandatory to support at least one of these roles IF SPP 2/1 “Support of Serial Profile Service” is supported, otherwise Excluded.
2/1b	Support of Serial Profile Service – Device B (DevB)	[1] 1.2	C.2	☑	C.2: Mandatory to support at least one of these roles IF SPP 2/1 “Support of Serial Profile Service” is supported, otherwise Excluded.

Table 3: Application procedures

Item	Capability	Reference	Support	Status	Comment
3/1	Establish link and set up virtual serial connection	SPP, 3.1	C.1	☑	C.1: Mandatory for DeviceA, Irrelevant for DeviceB
3/2	Accept link and virtual serial connection establishment	SPP, 3.1	C.2	☑	C.2: Mandatory for DeviceB, Irrelevant for DeviceA
3/3	Register Service record for application in local SDP database	SPP, 3.1	C.2	☑	C.2: Mandatory for DeviceB, Irrelevant for DeviceA

Table 4: Service Prot Profile Record Content (SerialPort UUID)

Item	Capability	Reference	Support	Status	Comment
4/1	SerialPort service class (UUID16: 0x1101)	SPP, 6.1	C.1	☑	C.1: Mandatory for role B, if capability Support of Serial Profile Service (SPP, 2/1) supported. Irrelevant for Role A
4/2	Protocol0, L2CAP	SPP, 6.1	C.1	☑	C.1: Mandatory for role B, if capability Support of Serial Profile Service (SPP, 2/1) supported. Irrelevant for Role A
4/3	Protocol1, RFCOMM	SPP, 6.1	C.1	☑	C.1: Mandatory for role B, if capability Support of Serial Profile Service (SPP, 2/1) supported. Irrelevant for Role A
4/4	Server Channel number	SPP, 6.1	C.1	☑	C.1: Mandatory for role B, if capability Support of Serial Profile Service (SPP, 2/1) supported. Irrelevant for Role A
4/6	BluetoothProfileDescriptorList	SPP 6.1	C.3	☑	C.3: Mandatory to support if 2/1 (Support of Serial Profile Service) AND 0/2 (SPP v1.2) are supported, otherwise Optional.

Table 5: Encryption

Item	Capability	Reference	Support	Status	Comment
5/2	Accept Encryption Request	SPP 2.4	M	☑	
5/3	Point to Point Encryption	SPP 7.1	M	☑	
5/4	Stop Encryption	SPP 7.1	M	☑	