Project Details

Project Name	Bluetooth Module (FSC-BT836B)
Product Type	End Product
TCRL Version:	TCRL 2019-2
Referenced Qualified Design(s)	
Previously Qualified Design Used in this Qualification(s)	102756 146728
Listing Date	2020-06-12
Declaration ID	D049606

Product Listing(s)

Name	Website	Category	Publish Date	Model Number	Description
Feasycom Bluetooth Module		Unique Products	6/12/2020 12:00:00 AM	FSC-BT836B	Bluetooth Module

Member Company	Shenzhen Feiyitong Electronic Technology Co., Ltd.

Declaring Member Contact / Listing Contact Person	
	Name
	Address
	City
	State
	Country
	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 Shenzhen Feiyitong Electronic 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:

devin wan

Signature:

devin wan

BLUETOOTH® LAUNCH STUDIO TERMS OF USE

Effective Date: November 10th, 2017.

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 that the Product has completed the Bluetooth Qualification Process).

4. FEES AND PAYMENT TERMS.

(a) Bluetooth SIG may charge you fees in connection with your use of the Launch Studio Tool and Submissions (e.g., for declaration IDs, 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 will not be entitled to receive or be permitted to use any item purchased (e.g., declaration ID). Except as set forth in Section 4(c) below, 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 purchased any declaration IDs at a discount and you have not used them as of the date of the membership level change, you may not use the previously purchased declaration IDs unless you pay the difference between the then-current standard fee and the discounted fee previously paid.

(c) If you have purchased declaration IDs and have not used them and you would like to request a refund, you may click this contact us link and submit a request to return the declaration IDs. All refunds processed by Bluetooth SIG will be made less a 10% processing fee. Declaration IDs purchased from Bluetooth SIG are non-transferable 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
21/16	Core Specification Version 5.0. Adopted 06 December 2016	Core 5.0	C.1	☑	C.1: Mandatory to support only one Controller Core Specification Version. IF 11/1 "End Product" OR 11/3 "Controller Subsystem" is Supported, Mandatory to Support only one Controller Core Spec version IF (11/4 "Component tested" OR 11/5 "Component non-tested") AND (BB OR LL OR LMP OR RF OR RF-PHY) is Supported, otherwise Excluded.
21/17	Core Erratum 10734 Pairing Updates. Adopted 16 July 2018	Erratum 10734	C.3	☑	C.3: Mandatory IF 21/14 "Core 4.2" OR 21/16 "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)
21/19	Core Erratum 11838 Key Size Updates. Adopted 13 August 2019	Erratum 11838	C.4	☑	C.4: Mandatory IF 21/14 "Core 4.2" OR 21/16 "Core 5.0" OR 21/18 "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 22: EDR Features

Item	Capability	Reference	Support	Status	Comment
22/1	EDR for asynchronous transports (single slot)	Core 2.0+EDR or later	C.1	☑	C.1: Mandatory to support at least one IF an AMP Controller Core supporting + HS (41/1 "Core 3.0 + HS or later") is supported, otherwise Optional.
22/2	EDR for asynchronous transports (multi-slot)	Core 2.0+EDR or later	C.1	☑	C.1: Mandatory to support at least one IF an AMP Controller Core supporting + HS (41/1 "Core 3.0 + HS or later") is supported, otherwise Optional.
22/4	EDR for synchronous transports (Core 3.0 or later)	CSA1 and 3.0+HS or later	C.1	☑	C.1: Mandatory to support at least one IF an AMP Controller Core supporting + HS (41/1 "Core 3.0 + HS or later") is supported, otherwise Optional.

Table 31: Host Core Specification

Item	Capability	Reference	Support	Status	Comment
31/21	Core Specification Version 5.2. Adopted 31 December 2019	Core 5.2	C.1	☑	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

Table 41: AMP Controller Core Specification

Item	Capability	Reference	Support	Status	Comment

Table 42: AMP Controller Specification Parts

Item	Capability	Reference	Support	Status	Comment

Table 51: Low Energy Controller Configuration

Item	Capability	Reference	Support	Status	Comment
51/1	Low Energy Controller	Core 4.0 or Later	C.1	☑	C.1: Mandatory if PROD 2/4 or 2/5 or 2/6 is supported, otherwise Excluded.

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	☑	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
1/1	End Product	Vol. 0 Part B	C.1	☑	C.1: Mandatory to support one and only one Product Type.

Table 2: Controller Core Configuration

Item	Capability	Reference	Support	Status	Comment
2/5	BR/EDR/LE Combined Controller	Vol. 0 Part B	C.1	☑	C.1: Mandatory to support only one Controller Configuration. Optional if 1/2 or 1/3 is Supported.

Table 3: Host Core Configuration

Item	Capability	Reference	Support	Status	Comment
3/4	BR/LE Host	Vol. 0 Part B	C.1	☑	C.1: Mandatory to support only one Host Configuration. Optional if 1/2 or 1/3 is Supported.

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 (SUM ICS 12/7 "Bluetooth Low Energy Core Host Configuration" OR SUM ICS 12/9 "Bluetooth Basic Rate and Low Energy Combined Core Host Configuration"), otherwise Excluded.

Table 3: Attribute Protocol Client Messages

Prerequisite: 1/1 "Attribute Protocol Client"

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	[1] ATT, 3.4.4.4	C.2	☑	C.2: Mandatory IF ATT 3/6 "Find by Type Value Request" is supported, otherwise Excluded.

		Response				
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.
3/14	Read Multiple Request	[1] ATT, 3.4.4.7	C.17	☑	C.17: Mandatory IF GATT 3/11 "Read Multiple Characteristic Values" is supported, otherwise Optional.
3/15	Read Multiple Response	[1] ATT, 3.4.4.8	C.5	☑	C.5: Mandatory IF ATT 3/14 "Read Multiple 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.
3/21	Signed Write Command	[1] ATT, 3.4.5.3	C.19	☑	C.19: Excluded IF ATT 2/3 "Attribute Protocol Supported (L2CAP fixed EATT PSM supported)" is supported, Mandatory IF GATT 3/13 "Signed 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

Prerequisite: 1/2 "Attribute Protocol Server"

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, 3.4.4.4	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 PSM supported)") 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.
4/14	Read Multiple Request	ATT, 3.4.4.7	C.7	☑	C.7: Mandatory IF GATT 4/11 "Read Multiple Characteristic Values" is supported, otherwise Optional.
4/15	Read Multiple Response	ATT, 3.4.4.8	C.2	☑	C.2: Mandatory IF 4/14 "Read Multiple 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 PSM supported)") 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 PSM supported)") is supported, otherwise Optional.
4/21	Signed Write Command	ATT, 3.4.5.3	C.9	☑	C.9: Excluded IF ATT 2/3 "Attribute Protocol Supported (L2CAP fixed EATT PSM supported)" is supported, Mandatory IF GATT 4/13 "Signed Write Without Response" 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 PSM supported)") 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 PSM supported)") 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.

Item	Capability	Reference	Support	Status	Comment
4/29	Server Timeout	ATT, 3.3.3	C.5	☑	C.5: Mandatory IF 4/27 "Handle-Value Indication" is supported, otherwise Excluded.
4/30	Execute Write Request with no pending prepared write values	ATT, 3.4.6.3	C.14	☑	C.14: Mandatory IF (GATT 4/25 "Execute Write Request with empty queue" OR 4/22 "Prepare Write Request") AND (SUMICS 31/19 "Core Spec Version 5.0") is supported, otherwise Optional.

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.
5/3	LE Security Mode 2	[2] GAP 10.2.2	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.
5/5	LE connection data signing procedure	[2] GAP 10.4.1	C.2	☑	C.2: Optional to support if 2/2 "Attribute Protocol Server", otherwise Excluded.
5/6	LE Authenticate signed data procedure	[2] GAP 10.4.2	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.

Baseband Conformance

Table 1: Physical Channel

Item	Capability	Reference	Support	Status	Comment
1/1	Frequency band and 79 RF channels	[1] 2.1	M	☑	
1/2	Adaptive Frequency Hopping Kernel	[1] 2.6	M	☑	

Table 1a: Modulation

Item	Capability	Reference	Support	Status	Comment
1a/1	Basic Data Rate, 1 Mbps payload data rate	[2] 3.1	M	☑	
1a/2	Enhanced Data Rate, 2 Mbps payload data rate	[2] 3.2	C.1	☑	C.1: Mandatory IF (SUMICS 22/1 "EDR for asynchronous transports (single slot)" OR SUMICS 22/2 "EDR for asynchronous transports (multi-slot)" SUMICS 22/4 "EDR for synchronous transports, CSA1 and 3.0+HS or later") is supported, otherwise Optional.
1a/3	Enhanced Data Rate, 3 Mbps payload data rate	[2] 3.2	C.2	☑	C.2: Mandatory IF (SUMICS 22/1 "EDR for asynchronous transports (single slot)" OR SUMICS 22/2 "EDR for asynchronous transports (multi-slot)") is supported; Optional IF BB 1a/2 "Enhanced Data Rate, 2 Mbps payload data rate" is supported, otherwise Excluded.

Table 2: Link Types

Item	Capability	Reference	Support	Status	Comment
2/1	ACL link	[1] 5.2	M	☑	
2/2	SCO link	[1] 5.4	O	☑	
2/3	eSCO link	[1] 4.3	O	☑	
2/4	Enhanced Data Rate ACL links	[1] 6.5.4	C.1	☑	C.1: Mandatory IF (SUMICS 22/1 "EDR for asynchronous transports (single slot)" OR SUMICS 22/2 "EDR for asynchronous transports (multi-slot)") is supported, otherwise Excluded
2/5	Enhanced Data Rate eSCO links	[1] 6.5.3	C.2	☑	C.2: Mandatory IF SUMICS 22/4 "EDR for synchronous transports (Core 3.0 or later)" is supported, otherwise Excluded.

Table 3: SCO and eSCO Link Support

Item	Capability	Reference	Support	Status	Comment
3/1	SCO links to same Slave	[1] 4.3	C.1	☑	C.1: Mandatory to support at least 1 SCO link type IF BB 2/2 "Support of SCO link" is supported.
3/2	SCO links to different Slaves	[1] 4.3	C.3	☑	C.3: Optional IF BB 2/2 "Support of SCO link" is supported, otherwise Excluded.
3/3	SCO links from same Master	[1] 4.3	C.1	☑	C.1: Mandatory to support at least 1 SCO link type IF BB 2/2 "Support of SCO link" is supported.

Item	Capability	Reference		Support	Status	Comment
3/4	SCO links from different Masters	[1] 4.3	C.3		☑	C.3: Optional IF BB 2/2 "Support of SCO link" is supported, otherwise Excluded.
3/5	eSCO links to same Slave	[1] 4.2	C.2		☑	C.2: Mandatory to support at least 1 eSCO link type IF BB 2/3 "Support of eSCO link" is supported.
3/6	eSCO links to different Slaves	[1] 4.2	C.4		☑	C.4: Optional IF BB 2/3 "Support of eSCO link" is supported, otherwise Excluded.
3/7	eSCO links from same Master	[1] 4.2	C.2		☑	C.2: Mandatory to support at least 1 eSCO link type IF BB 2/3 "Support of eSCO link" is supported.
3/8	eSCO links from different Masters	[1] 4.2	C.4		☑	C.4: Optional IF BB 2/3 "Support of eSCO link" is supported, otherwise Excluded.

Table 3a: Profile Broadcast Data Link Support

Prerequisite: BB 2/6 "Support of Broadcast Data Link"

Item	Capability	Reference	Support	Status	Comment

Table 4: Common Packet Types

Item	Capability	Reference	Support	Status	Comment
4/1	ID packet type	[1] 6.5.1, [1] 6.5.1.1	M	☑	
4/2	NULL packet type	[1] 6.5.1, [1] 6.5.1.2	M	☑	
4/3	POLL packet type	[1] 6.5.1, [1] 6.5.1.3	M	☑	
4/4	FHS packet type	[1] 6.5.1, [1] 6.5.1.4	M	☑	
4/5	DM1 packet type	[1] 6.5.1, [1] 6.5.1.5, [1] 6.5.4, [1] 6.5.4.1	M	☑	

Table 5: ACL Packet Types

Item	Capability	Reference	Support	Status	Comment
5/1	DH1 packet type	[1] 6.5.4, [1] 6.5.4.2	M	☑	
5/2	DM3 packet type	[1] 6.5.4, [1] 6.5.4.3	C.1	☑	C.1: Mandatory IF (BB 9c/1 "Synchronization Train" OR BB 9c/2 "Synchronization Scan") is supported, otherwise Optional.
5/3	DH3 packet type	[1] 6.5.4, [1] 6.5.4.4	O	☑	
5/4	DM5 packet type	[1] 6.5.4, [1] 6.5.4.5	O	☑	
5/5	DH5 packet type	[1] 6.5.4, [1] 6.5.4.6	O	☑	
5/6	AUX1 packet type	[1] 6.5.4, [1] 6.5.4.7	O	☑	

Table 5a: Enhanced Data Rate ACL Packet Types

Prerequisite: BB 2/4 "Support of Enhanced Date Rate ACL links"

Item	Capability	Reference	Support	Status	Comment
5a/1	2-DH1 packet type	[1] 6.5.4.8	C.1	☑	C.1: Mandatory IF (SUM ICS 22/1 "EDR for asynchronous transports (single slot)" OR SUM ICS 22/2 "EDR for asynchronous transports (multi-slot)") is supported; Optional IF BB 1a/2 "Enhanced Data Rate, 2 Mbps payload data rate" is supported; otherwise Excluded.
5a/2	2-DH3 packet type	[1] 6.5.4.9	C.2	☑	C.2: Mandatory IF SUM ICS 22/2 "EDR for asynchronous transports (multi-slot)" is supported; Optional IF BB 1a/2 "Enhanced Data Rate, 2 Mbps payload data rate is supported; otherwise Excluded.
5a/3	2-DH5 packet type	[1] 6.5.4.10	C.2	☑	C.2: Mandatory IF SUM ICS 22/2 "EDR for asynchronous transports (multi-slot)" is supported; Optional IF BB 1a/2 "Enhanced Data Rate, 2 Mbps payload data rate is supported; otherwise Excluded.
5a/4	3-DH1 packet type	[1] 6.5.4.11	C.3	☑	C.3: Mandatory IF (SUM ICS 22/1 "EDR for asynchronous transports (single slot)" OR SUM ICS 22/2 "EDR for asynchronous transports (multi-slot)") is supported; Optional IF BB 1a/3 "Enhanced Data Rate, 3 Mbps payload data rate" is supported; otherwise Excluded.
5a/5	3-DH3 packet type	[1] 6.5.4.12	C.4	☑	C.4: Mandatory IF SUM ICS 22/2 "EDR for asynchronous transports (multi-slot)" is supported; Optional IF (BB 5a/2 "Support 2-DH3 packet type" AND BB 5a/4 "Support 3-DH1 packet type") are supported; otherwise Excluded.

| 5a/6 | 3-DH5 packet type | [1] 6.5.4.13 | C.5 | ☑ | C.5: Mandatory IF SUM ICS 22/2 "EDR for asynchronous transports (multi-slot)" is supported; Optional IF (BB 5a/3 "Support 2-DH5 packet type" AND BB 5a/4 "Support 3-DH1 packet type") are supported; otherwise Excluded. |

Table 6: SCO and eSCO Packet Types

Item	Capability	Reference	Support	Status	Comment
6/1	HV1 packet type	[1] 6.5.2, [1] 6.5.2.1	C.1	☑	C.1: Mandatory IF BB 2/2 "Support of SCO link" is supported, otherwise Excluded.
6/2	HV2 packet type	[1] 6.5.2, [1] 6.5.2.2	C.2	☑	C.2: Optional IF BB 2/2 "Support of SCO link" is supported, otherwise Excluded.
6/3	HV3 packet type	[1] 6.5.2, [1] 6.5.2.3	C.2	☑	C.2: Optional IF BB 2/2 "Support of SCO link" is supported, otherwise Excluded.
6/4	DV packet type	[1] 6.5.2, [1] 6.5.2.4	C.1	☑	C.1: Mandatory IF BB 2/2 "Support of SCO link" is supported, otherwise Excluded.
6/5	EV3 packet type	[1] 6.5.3, [1] 6.5.2.1	C.3	☑	C.3: Mandatory IF BB 2/3 "Support of eSCO link" is supported, otherwise Excluded.
6/6	EV4 packet type	[1] 6.5.3, [1] 6.5.2.2	C.4	☑	C.4: Optional IF BB 2/3 "Support of eSCO link" is supported, otherwise Excluded.
6/7	EV5 packet type	[1] 6.5.3, [1] 6.5.2.3	C.4	☑	C.4: Optional IF BB 2/3 "Support of eSCO link" is supported, otherwise Excluded.

Table 6a: Enhanced Data Rate eSCO Packet Types

Prerequisite: BB 2/5 "Support of Enhanced Data Rate eSCO links"

Item	Capability	Reference	Support	Status	Comment
6a/1	2-EV3 packet type	[1] 6.5.3.4	C.1	☑	C.1: Optional IF BB 1a/2 "Enhanced Data Rate, 2 Mbps payload data rate" is supported; otherwise Excluded.
6a/2	2-EV5 packet type	[1] 6.5.3.5	C.2	☑	C.2: Optional IF BB 1a/2 "Enhanced Data Rate, 2 Mbps payload data rate" is supported, otherwise Excluded.
6a/3	3-EV3 packet type	[1] 6.5.3.6	C.3	☑	C.3: Mandatory IF SUM ICS 22/4 "EDR for synchronous transports, CSA1 and 3.0+HS or later" is NOT supported; Optional IF BB 1a/3 "Enhanced Data Rate, 3 Mbps payload data rate" is supported; otherwise Excluded.
6a/4	3-EV5 packet type	[1] 6.5.3.7	C.4	☑	C.4: Optional IF BB 1a/3 "Enhanced Data Rate, 3 Mbps payload data rate" is supported, otherwise Excluded.

Table 7: Page Procedures

Item	Capability	Reference	Support	Status	Comment
7/1	Paging	[1] 8.3.2	M	☑	
7/2	Page scan	[1] 8.3.1	M	☑	
7/5	Interlaced Scan during page scan	[1] 2.4	O	☑	

Table 8: Paging Schemes

Item	Capability	Reference	Support	Status	Comment
8/1	Mandatory scan mode	[1] 8.3, Table 6.5	M	☑	

Table 9: Paging Modes

Item	Capability	Reference	Support	Status	Comment
9/1	Paging mode R0	[1] 8.3.1, Table 8.1	C.1	☑	C.1: At least one of the paging scan modes must be supported.
9/2	Paging mode R1	[1] 8.3.1, Table 8.1	C.1	☑	C.1: At least one of the paging scan modes must be supported.
9/3	Paging mode R2	[1] 8.3.1, Table 8.1	C.1	☑	C.1: At least one of the paging scan modes must be supported.

Table 9b: Paging Train Repetition

Item	Capability	Reference	Support	Status	Comment
9b/1	Npage >= 1	[1] 8.3.2, Table 8.2	O	☑	

Item	Capability	Reference	Support	Status	Comment
9b/2	Npage >= 128	[1] 8.3.2, Table 8.2	O	☑	
9b/3	Npage >= 256	[1] 8.3.2, Table 8.2	M	☑	

Table 9c: Synchronization Modes Support

Prerequisite: BB 2/6 "Support of Broadcast Data Link"

Item	Capability	Reference	Support	Status	Comment

Table 10: Inquiry Procedures

Item	Capability	Reference	Support	Status	Comment
10/1	Inquiry	[1] 8.4.2	O	☑	
10/2	Inquiry scan with first FHS	[1] 8.4.2	O	☑	
10/5	Dedicated inquiry access code	[1] 6.3.1	O	☑	
10/6	Interlaced Scan during inquiry scan	[1] 2.5	O	☑	
10/7	Extended Inquiry Response	[1] 8.4.2, 8.4.3	C.1	☑	C.1: Mandatory IF GAP 1/3 "Initiate LMP-Authentication" is supported, otherwise Optional.

Table 11: Piconet Capabilities

Item	Capability	Reference	Support	Status	Comment
11/1	Broadcast messages	[1] 7.6.1 [1] 7.6.5	O	☑	
11/2	Point-to-multipoint connections	[1] 1	O	☑	

Table 12: Scatternet Capabilities

Item	Capability	Reference	Support	Status	Comment
12/1	Act as Master in one piconet and Slave in another piconet	[1] 1	O	☑	
12/2	Act as Slave in more than one piconet	[1] 1	O	☑	

Table 13: Synchronous Coding Schemes

Prerequisite: BB 2/2 "SCO link support"

Item	Capability	Reference	Support	Status	Comment
13/1	A-law	[1] 9.1	O	☑	
13/2	u-law	[1] 9.1	O	☑	
13/3	CVSD	[1] 9.2	O	☑	
13/4	Transparent Synchronous Data	[1] 5.4, 5.5	O	☑	

Table 14: Erroneous Data Reporting

Item	Capability	Reference	Support	Status	Comment
14/1	Erroneous Data Reporting for SCO	[1] 7.7	C.1	☑	C.1: Optional IF HCI 9/6 "SCO data via HCI" is supported, otherwise Excluded.
14/2	Erroneous Data Reporting for eSCO	[1] 7.7	C.2	☑	C.2: Optional IF HCI 9/7 "eSCO data via HCI" is supported, otherwise Excluded.

Table 16: Non-flushable Packet Boundary Flag

Item	Capability	Reference	Support	Status	Comment
16/1	Non-flushable Packet Boundary Flag	[1] 7.6.3	C.1	☑	C.1: Mandatory IF HCI 12/10 "Enhanced Flush Command" is supported; otherwise Optional.

Table 17: Connection States

Item	Capability	Reference	Support	Status	Comment
17/1	Sniff Subrating Mode	[3] 4.5.3.3	C.1	☑	C.1: Mandatory IF LMP 2/8 "Sniff Mode" is supported; otherwise Optional.

Table 18: Coarse Clock Adjust

Item	Capability	Reference	Support	Status	Comment

Table 19: Slot Availability Mask

Item	Capability	Reference	Support	Status	Comment

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.
1/3	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	☑	
1/6	Non-bondable mode	[1] or [2] or [3] or [7] 4.3.1	O	☑	
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.
2/5	Security mode 2	[1] or [2] or [3] or [7] 5.2.1.2	O	☑	
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.
3/3	Initiation of	[1] or [2] or	O	☑	

		name discovery	[3] or [7] 6.3			
3/4	Initiation of device discovery	[1] or [2] or [3] or [7] 6.4	O	☑		
3/5	Initiation of general bonding	[1] or [2] or [3] or [7] 6.5	O	☑		
3/6	Initiation of dedicated bonding	[1] or [2] or [3] or [7] 6.5	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	☑	
4/7	Support synchronization establishment as receiver	[3] or [6] or [7] 7.5	C.1	☑	C.1: Mandatory IF BB 3a/2 "Connectionless Slave Broadcast Receiver" is supported, otherwise Optional.

Table 5: LE Roles

Prerequisite: GAP 0/2

Item	Capability	Reference	Support	Status	Comment

Table 6: Broadcaster Physical Layer

Prerequisite: GAP 38/1 or GAP 5/1

Item	Capability	Reference	Support	Status	Comment
6/1	Transmitter	[3] or [7] 2.2.2	M	☑	
6/2	Receiver	[3] or [7] 2.2.2	O	☑	

Table 7: Broadcaster Link Layer States

Prerequisite: GAP 38/1 or GAP 5/1

Item	Capability	Reference	Support	Status	Comment
7/1	Standby	[3] or [7] 2.2.2	M	☑	
7/2	Advertising	[3] or [7] 2.2.2	M	☑	

Table 8: Broadcaster Link Layer Advertising Event Types

Prerequisite: GAP 38/1 or GAP 5/1

Item	Capability	Reference	Support	Status	Comment
8/1	Non-Connectable Undirected Event	[3] or [7] 2.2.2	M	☑	
8/2	Scannable Undirected Event	[3] or [7] 2.2.2	O	☑	

Table 8a: Broadcaster Link Layer Advertising Data Types

Prerequisite: GAP 38/1 or GAP 5/1

Item	Capability	Reference	Support	Status	Comment
8a/1	AD Type – Service UUID	[3] 11.1.1, [4] 1.1	O	☑	
8a/2	AD Type – Local Name	[3] 11.1.2, [4] 1.2	O	☑	

8a/3	AD Type – Flags	[3] 11.1.3, [4] 1.3	O	☑	
8a/4	AD Type – Manufacturer Specific	[3] 11.1.4, [4] 1.4	O	☑	
8a/5	AD Type – TX Power Level	[3] 11.1.5, [4] 1.5	O	☑	
8a/6	AD Type – Security Manager Out of Band (OOB)	[3] 11.1.6, [4] 1.6	C.1	☑	C.1: Optional IF SM 2/4 "OOB supported" is supported, otherwise Excluded.
8a/7	AD Type – Security Manager TK	[3] 11.1.7, [4] 1.7	O	☑	
8a/8	AD Type – Slave Connection	[3] 11.1.8, [4] 1.8	O	☑	
8a/9	AD Type - Service Solicitation	[3] 11.1.9, [4] 1.9	O	☑	
8a/10	AD Type – Service Data	[3] 11.1.10, [4] 1.10	O	☑	
8a/11	AD Type – Appearance	[4] 1.1.12	O	☑	
8a/12	AD Type – Public Target Address	[4] 1.1.13	O	☑	
8a/13	AD Type – Random Target Address	[4] 1.1.14	O	☑	
8a/14	AD Type – Advertising Interval	[4] 1.1.15	O	☑	
8a/15	AD Type – LE Bluetooth Device Address	[4] 1.1.16	O	☑	
8a/16	AD Type – LE Role	[4] 1.1.17	O	☑	
8a/17	AD Type - URI	[4] 1.1.18	O	☑	

Table 9: Broadcaster Connection Modes and Procedures

Prerequisite: GAP 38/1 or GAP 5/1

Item	Capability	Reference	Support	Status	Comment
9/1	Non-Connectable Mode	[3] or [7] 9.3.2	M	☑	

Table 10: Broadcaster Broadcasting and Observing Features

Prerequisite: GAP 38/1 or GAP 5/1

Item	Capability	Reference	Support	Status	Comment
10/1	Broadcast Mode	[3] or [7] 9.1.1	M	☑	

Table 11: Broadcaster Privacy Feature

Prerequisite: GAP 38/1 or GAP 5/1

Item	Capability	Reference	Support	Status	Comment
11/2	Resolvable Private Address Generation Procedure	[3] or [7] 10.8.2.2 or 1.3.2.2	C.1	☑	C.1: Mandatory IF GAP 11/1 "Privacy Feature" AND NOT GAP 11/3 "Non-Resolvable Private Address Generation Procedure" is supported, otherwise Optional.
11/3	Non-Resolvable Private Address Generation Procedure	[3] or [7] 10.8.2.1 or [9] 1.3.2.2	C.2	☑	C.2: Mandatory IF GAP 11/1 "Privacy Feature" AND NOT GAP 11/2 "Resolvable Private Address Generation Procedure" is supported, otherwise Optional.

Table 11a: Periodic Advertising Modes and Procedures

Prerequisite: GAP 38/1 or GAP 5/1

Item	Capability	Reference	Support	Status	Comment

Table 11b: Broadcaster Security Aspects Features

Prerequisite: GAP 38/1 or GAP 5/1

Item	Capability	Reference	Support	Status	Comment

Table 12: Observer Physical Layer

Prerequisite: GAP 38/2 or GAP 5/2

Item	Capability	Reference	Support	Status	Comment
12/1	Receiver	[3] or [7] 2.2.2	M	☑	
12/2	Transmitter	[3], 2.2.2	O	☑	

Table 13: Observer Link Layer States

Prerequisite: GAP 38/2 or GAP 5/2

Item	Capability	Reference	Support	Status	Comment
13/1	Standby	[3] or [7] 2.2.2	M	☑	
13/2	Scanning	[3] or [7] 2.2.2	M	☑	

Table 14: Observer Link Layer Scanning Types

Prerequisite: GAP 38/2 or GAP 5/2

Item	Capability	Reference	Support	Status	Comment
14/1	Passive Scanning	[3] or [7] 2.2.2	M	☑	
14/2	Active Scanning	[3] or [7] 2.2.2	O	☑	

Table 15: Observer Connection Modes and Procedures

Prerequisite: GAP 38/2 or GAP 5/2

Item	Capability	Reference	Support	Status	Comment
15/1	Non-Connectable Modes	[3] or [7] 9.3.2	M	☑	

Table 16: Observer Broadcasting and Observing Features

Prerequisite: GAP 38/2 or GAP 5/2

Item	Capability	Reference	Support	Status	Comment
16/1	Observation Procedure	[3] or [7] 9.1.2	M	☑	

Table 17: Observer Privacy Feature

Prerequisite: GAP 38/2 or GAP 5/2

Item	Capability	Reference	Support	Status	Comment
17/2	Non-Resolvable Private Address Generation Procedure	[3] or [7] 10.8.2.1 [9] 1.3.2.2	C.1	☑	C.1: Mandatory IF GAP 17/1 "Privacy Feature" AND GAP 14/2 "Active Scanning" AND NOT GAP 17/4 "Resolvable Private Address Generation Procedure" is supported, otherwise Optional.
17/3	Resolvable Private Address Resolution Procedure	[3] or [7] 10.8.2.3 [5] 10.8 [9] 1.3.2.2	O	☑	
17/4	Resolvable Private Address Generation Procedure	[3] or [7] 10.8.2.2 [5] 10.8 [9] 1.3.2.3	C.2	☑	C.2: Mandatory IF GAP 17/1 "Privacy Feature" AND GAP 14/2 "Active Scanning" AND NOT GAP 17/2 "Non-Resolvable Private Address Generation Procedure" is supported, otherwise Optional.

Table 17a: Periodic Advertising Modes and Procedures

Prerequisite: GAP 38/2 or GAP 5/2

Item	Capability	Reference	Support	Status	Comment

Table 17b: Observer Security Aspects Features

Prerequisite: GAP 38/2 or GAP 5/2

Item	Capability	Reference	Support	Status	Comment

Table 18: Peripheral Physical Layer

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	Reference	Support	Status	Comment
18/1	Transmitter	[3] or [7] 2.2.2	M	☑	
18/2	Receiver	[3] 2.2.2	M	☑	

Table 19: Peripheral Link Layer States

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	Reference	Support	Status	Comment
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

Prerequisite: GAP 38/3 or GAP 5/3

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	☑	
20/5	Connectable Undirected Event	[10] 2.2.2	C.1	☑	C.1: Excluded IF (SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS") is supported, otherwise Optional.
20/6	Non-Connectable and Non-Scannable Directed Event	[10] 2.2.2	C.1	☑	C.1: Excluded IF (SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS") is supported, otherwise Optional.
20/7	Scannable Directed Event	[10] 2.2.2	C.1	☑	C.1: Excluded IF (SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS") is supported, otherwise Optional.

Table 20A: Peripheral Link Layer Advertising Data Types

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	Reference	Support	Status	Comment
20A/1	AD Type – Service UUID	[3] 11.1.1 [4] 1.1	C.1	☑	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
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/4	AD Type – Manufacturer Specific Data	[3] 11.1.4 [4] 1.4	C.1	☑	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
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.
20A/6	AD Type – Security Manager Out of Band (OOB)	[3] 11.1.5 [4] 1.7	C.3	☑	C.3: Optional if (20/1 (Connectable Undirected Event) or 20/3 (Non-Connectable Undirected Event) or 20/4 (Scannable Undirected Event)) and SM 2/4 (OOB supported) are supported, otherwise Excluded.
20A/7	AD Type – Security Manager TK Value	[3] 11.1.7 [4] 1.8	C.1	☑	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/8	AD Type – Slave Connection Interval Range	[3] 11.1.8 [4] 1.9	C.1	☑	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/9	AD Type – Service Solicitation	[3] 11.1.9 [4] 1.10	C.1	☑	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/10	AD Type – Service Data	[3] 11.1.10 [4] 1.11	C.1	☑	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/11	AD Type – Appearance	[4] 1.1.12	C.1	☑	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/12	AD Type – Public Target Address	[4] 1.1.13	C.1	☑	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/13	AD Type – Random Target Address	[4] 1.1.14	C.1	☑	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/14	AD Type – Advertising Interval	[4] 1.1.15	C.1	☑	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/15	AD Type – LE Bluetooth Device Address	[4] 1.1.16	C.1	☑	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/16	AD Type – LE Role	[4] 1.1.17	C.1	☑	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/17	AD Type – URI	[4] 1.1.18	O	☑	

Table 21: Peripheral Link Layer Control Procedures

Prerequisite: GAP 5/3 "Peripheral LE-Only" OR GAP 38/3 "Peripheral BR/EDR/LE"

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	☑	
21/7	LE Ping Procedure	[7] 2.2.2	O	☑	
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.

Table 22: Peripheral Discovery Modes and Procedures

Prerequisite: GAP 38/3 or GAP 5/3

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 Discovery Procedure	[3] or [7] 9.2.7	O	☑	

Table 23: Peripheral Connection Modes and Procedures

Prerequisite: GAP 38/3 or GAP 5/3

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

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	Reference	Support	Status	Comment
24/1	Non-Bondable Mode	[3], 9.4.2	M	☑	
24/2	Bondable Mode	[3] 9.4.3, 13.1.4.2 [7] 9.4.3, 13.2	O	☑	
24/3	Bonding Procedure	[3] 9.4.4, 13.1.4.2 [7] 9.4.4, 13.2	O	☑	

Table 25: Peripheral Security Aspects Features

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	Reference	Support	Status	Comment
25/1	Security Mode 1	[3] 10.2.1, 13.1.2.2 [7] 10.2.1	O	☑	

Item	Capability	Reference	Support	Status	Comment
25/2	Security Mode 2	[3] 10.2.2, 13.1.2.2 [7] 10.2.2	O	☑	
25/3	Authentication Procedure	[3] 10.3, 13.1.2.2 [7] 10.3	O	☑	
25/4	Authorization Procedure	[3] 10.5, 13.1.2.2 [7] 10.5	O	☑	
25/5	Connection Data Signing Procedure	[3] 10.4.1, 13.1.2.2 [7] 10.4.1	O	☑	
25/6	Authenticate Signed Data Procedure	[3] 10.4.3, 13.1.2.2 [7] 10.4.3	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

Prerequisite: GAP 5/3 "Peripheral LE-Only" OR GAP 38/3 "Peripheral BR/EDR/LE"

Item	Capability	Reference	Support	Status	Comment
26/2	Non-Resolvable Private Address Generation Procedure	[3] [7] [8] 10.7, 10.8.2.1 [9] 1.3.2.2	O	☑	
26/3	Resolvable Private Address Generation Procedure	[3] [7] [8] 10.7, 10.8.2.2 [9] 1.3.2.2	C.1	☑	C.1: Mandatory IF GAP 26/1 "Privacy Feature" is supported, otherwise Optional.
26/4	Resolvable Private Address Resolution Procedure	[3] [7] [8] 10.7, 10.8.2.3 [9] 1.3.2.2	C.1	☑	C.1: Mandatory IF GAP 26/1 "Privacy Feature" is supported, otherwise Optional.

Table 27: Peripheral GAP Characteristics

Prerequisite: GAP 38/3 or GAP 5/3

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

Prerequisite: (GAP 5/3 "Peripheral LE-Only" OR GAP 38/3 "Peripheral BR/EDR/LE") AND NOT (SUM ICS 31/17 "Core Spec Version 4.2" OR SUM ICS 31/18 "Core Spec Version 4.2+HS" OR SUM ICS 31/19 "Core Spec Version 5.0")

Item	Capability	Reference	Support	Status	Comment

Table 28: Central Physical Layer

Prerequisite: GAP 38/4 or GAP 5/4

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

Prerequisite: GAP 38/4 or GAP 5/4

Item	Capability	Reference	Support	Status	Comment
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

Prerequisite: GAP 38/4 or GAP 5/4

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

Prerequisite: GAP 38/4 or GAP 5/4

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	☑	
31/7	LE Ping Procedure	[7] 2.2.2	O	☑	
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.

Table 32: Central Discovery Modes and Procedures

Prerequisite: GAP 38/4 or GAP 5/4

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

Prerequisite: GAP 38/4 or GAP 5/4

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

Prerequisite: GAP 38/4 or GAP 5/4

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	☑	
34/3	Bonding Procedure	[3] 9.4.4, 13.1.3 [7] 9.4.4, 13.2	O	☑	

Table 35: Central Security Features

Prerequisite: GAP 38/4 or GAP 5/4

Item	Capability	Reference	Support	Status	Comment
35/1	Security Mode 1	[3] or [7] 10.2.1	O	☑	
35/2	Security Mode 2	[3] or [7] 10.2.2	O	☑	
35/3	Authentication Procedure	[3] or [7] 10.3	O	☑	

Item	Capability	Reference	Support	Status	Comment
35/4	Authorization Procedure	[3] or [7] 10.5	O	☑	
35/5	Connection Data Signing Procedure	[3] or [7] 10.4.1	O	☑	
35/6	Authenticate Signed Data Procedure	[3] or [7] 10.4.3	O	☑	
35/7	Authenticated Pairing (LE security mode 1 level 3)	[3] or [7] 10.3	C.1	☑	C.1: Optional IF GAP 35/1 "LE Security Mode 1" is supported, otherwise Excluded.
35/8	Unauthenticated Pairing (LE security mode1 level 2)	[3] or [7] 10.3	C.1	☑	C.1: Optional IF GAP 35/1 "LE Security Mode 1" is supported, otherwise Excluded.

Table 36: Central Privacy Feature

Prerequisite: GAP 38/4 or GAP 5/4

Item	Capability	Reference	Support	Status	Comment
36/2	Non-Resolvable Private Address Generation Procedure	[3] [7] [8] 10.7, 10.8.2.1 [9] 1.3.2.2	O	☑	
36/3	Resolvable Private Address Resolution Procedure	[3] [7] [8] 10.7, 10.8.2.3 [9] 1.3.2.2	C.1	☑	C.1: Mandatory IF GAP 36/1 "Privacy Feature" is supported, otherwise Optional.
36/5	Resolvable Private Address Generation Procedure	[3] [7] [8] 10.7, 10.8.2.2 [5] 2.2.5 [9] 1.3.2.3	C.1	☑	C.1: Mandatory IF GAP 36/1 "Privacy Feature" is supported, otherwise Optional.

Table 37: Central GAP Characteristics

Prerequisite: GAP 38/4 or GAP 5/4

Item	Capability	Reference	Support	Status	Comment
37/1	Device Name	[3] or [7] 12.1	M	☑	
37/2	Appearance	[3] or [7] 12.2	M	☑	

Table 37a: Periodic Advertising Modes and Procedures

Prerequisite: (GAP 5/4 "Central LE-Only" OR GAP 38/4 "Central BR/EDR/LE") AND NOT (SUM ICS 31/17 "Core Spec Version 4.2" OR SUM ICS 31/18 "Core Spec Version 4.2+HS" OR SUM ICS 31/19 "Core Spec Version 5.0")

Item	Capability	Reference	Support	Status	Comment

Table 38: BR/EDR/LE Roles

Prerequisite: GAP 0/3

Item	Capability	Reference	Support	Status	Comment
38/1	Broadcaster	[3] or [7] 13	C.1	☑	C.1: It is Mandatory to support at least one of the defined roles.
38/2	Observer	[3] or [7] 13	C.1	☑	C.1: It is Mandatory to support at least one of the defined roles.
38/3	Peripheral	[3] or [7] 13	C.1	☑	C.1: It is Mandatory to support at least one of the defined roles.
38/4	Central	[3] or [7] 13	C.1	☑	C.1: It is Mandatory to support at least one of the defined roles.

Table 41: Central BR/EDR/LE Security Aspects

Item	Capability	Reference	Support	Status	Comment
41/1	Security Aspects	[3] 14	M	☑	

Table 43: Peripheral BR/EDR/LE Security Aspects

Prerequisite: GAP 38/3

Item	Capability	Reference	Support	Status	Comment
43/1	Security Aspects	[3] or [7] 14	M	☑	

Table 44: Central Simultaneous BR/EDR and LE Transports

Prerequisite: GAP 38/4

Item	Capability	Reference	Support	Status	Comment
44/1	Simultaneous BR/EDR and LE Transports – BR/EDR Slave to the same device	[3] [7] 13.1.1	O	☑	

Item	Capability	Reference	Support	Status	Comment
44/2	Simultaneous BR/EDR and LE Transports – BR/EDR Master to the same device	[7] 13.1.1	O	☑	

Table 45: Peripheral Simultaneous BR/EDR and LE Transports

Prerequisite: GAP 38/3

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	☑	

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

Prerequisite: GATT 1/1 "Generic Attribute Profile Client" AND (GATT 1a/1 "GATT Client over LE" OR GATT 1a/2 "GATT Client over BR/EDR")

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	☑	
3/11	Read Multiple Characteristic Values	[1] 4.8.4	O	☑	
3/12	Write without Response	[1] 4.9.1	O	☑	
3/13	Signed Write Without Response	[1] 4.9.2	C.11	☑	C.11: Optional IF GATT 1a/1 "GATT Client over LE" is supported, otherwise Excluded.
3/14	Write Characteristic Value	[1] 4.9.3	O	☑	

Item	Capability	Reference	Support	Status	Comment
3/15	Write Long Characteristic Values	[1] 4.9.4	O	☑	
3/16	Characteristic Value Reliable Writes	[1] 4.9.5	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	☑	
3/24	Configured Broadcast	[1] 2.7	C.2	☑	C.2: Optional IF GATT 3/14 "Write Characteristic Value" is supported, otherwise Excluded.

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.
4/11	Read Multiple Characteristic Values	[1] 4.8.4	O	☑	
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.
4/13	Signed Write Without Response	[1] 4.9.2	C.6	☑	C.6: Optional IF GATT 1a/3 "GATT Server over LE" is supported, otherwise Excluded.
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.

Item	Capability	Reference	Support	Status	Comment
4/16	Characteristic Value Reliable Writes	[1] 4.9.5	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.
4/17	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.
4/24	Configured Broadcast	[1] 2.7	C.5	☑	C.5: Optional IF GATT 4/14 "Write Characteristic Value" is supported, otherwise Excluded.
4/25	Execute Write Request with empty queue	[1] 4.9.4, 4.9.5, 4.12.4	C.7	☑	C.7: Mandatory IF (SUM ICS 31/19 "Core Spec Version 5.0") AND (GATT 4/15 "Write Long Characteristic Values" OR GATT 4/16 "Characteristic Value Reliable Writes" OR GATT 4/22 "Write Long Characteristic Descriptors") is supported, Optional IF (NOT SUM ICS 31/19 "Core Spec Version 5.0") AND (GATT 4/15 "Write Long Characteristic Values" OR GATT 4/16 "Characteristic Value Reliable Writes" OR GATT 4/22 "Write Long Characteristic Descriptors") is supported, otherwise Excluded.

Table 6: SDP Interoperability

Prerequisite: GATT 2/1 "Attribute Protocol Supported over BR/EDR"

Item	Capability	Reference	Support	Status	Comment

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.
7/3	LE Security Mode 2	[2] 10.2.2	C.6	☑	C.6: Mandatory IF ATT 5/3 "LE Security Mode 2" 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.
7/5	LE connection data signing procedure	[2] 10.4.1	C.2	☑	C.2: Optional IF GATT 2/2 "Attribute Protocol Supported over LE" is supported, otherwise Excluded.
7/6	LE Authenticate signed data procedure	[2] 10.4.2	C.2	☑	C.2: 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

Human Interface Device Profile

Table 0: Profile Versions

Item	Capability	Reference	Support	Status	Comment
0/1	HID 1.0	HID 1.0	C.1	☑	C.1: Mandatory to support one and only one profile version.

Table 1: Roles

Item	Capability	Reference	Support	Status	Comment
1/2	HID Role	6.0	C.1	☑	C.1: Mandatory to support at least one of these roles.

Table 2: Application Procedures

Prerequisite: HID 1/1 or HID 1/3

Item	Capability	Reference	Support	Status	Comment

Table 3: Device to Host Transfers

Prerequisite: HID 1/1 or HID 1/3

Item	Capability	Reference	Support	Status	Comment

Table 4: Host to Device Transfers

Prerequisite: HID 1/1 or HID 1/3

Item	Capability	Reference	Support	Status	Comment

Table 5: HID Control Commands

Prerequisite: HID 1/1 or HID 1/3

Item	Capability	Reference	Support	Status	Comment

Table 6: Host Link Manager Procedures

Item	Capability	Reference	Support	Status	Comment

Table 7: Host Link Control Requirements

Item	Capability	Reference	Support	Status	Comment

Table 8: HID Device Roles

Prerequisite: HID 1/2

Item	Capability	Reference	Support	Status	Comment
8/2	Keyboard HID	6.0	C.1	☑	C.1: Mandatory to support one of 8/1 (Pointing HID) OR 8/2 (Keyboard HID) OR 8/3 (Identification HID) OR 8/4 (Other HID) IF 1/2 (HID Role) is supported.

Table 10: Device to Host Transfers

Prerequisite: HID 1/2

Item	Capability	Reference	Support	Status	Comment
10/4	Boot mode reports to host	7.2.1	C.1	☑	C.1: Mandatory IF 8/1 (Pointing HID) OR 8/2 (Keyboard HID) is supported; Optional if 8/3 (Identification HID) OR 8/4 (Other HID) is supported.

Table 11: Host to Device Transfers

Prerequisite: HID 1/2

Item	Capability	Reference	Support	Status	Comment
11/4	Boot mode reports to device	7.2.1	C.1	☑	C.1: Mandatory IF 8/2 (Keyboard HID) is supported; Optional IF 8/1 (Pointing HID) OR 8/3 (Identification HID) OR 8/4 (Other HID) is supported.

Table 12: HID Control Commands

Prerequisite: HID 1/2

Item	Capability	Reference	Support	Status	Comment
12/1	Set_Protocol command	7.4.6	C.1/C.5	☑	C.1: Mandatory IF 8/1 (Pointing HID) OR 8/2 (Keyboard HID) is supported; Optional IF 8/3 (Identification HID) OR 8/4 (Other HID) is supported. C.5: If either 12/1 (Set_Protocol command) OR 12/2 (Get_Protocol command) is supported, both 12/1 (Set_Protocol command) AND 12/2 (Get_Protocol command) are Mandatory to support.

12/2	Get_Protocol command	7.4.5	C.1/C.5	☑	C.1: Mandatory IF 8/1 (Pointing HID) OR 8/2 (Keyboard HID) is supported; Optional IF 8/3 (Identification HID) OR 8/4 (Other HID) is supported. C.5: If either 12/1 (Set_Protocol command) OR 12/2 (Get_Protocol command) is supported, both 12/1 (Set_Protocol command) AND 12/2 (Get_Protocol command) are Mandatory to support.
12/3	Set_Idle command	7.4.8	C.2	☑	C.2: Mandatory IF 8/2 (Keyboard HID) is supported; Optional IF 8/1 (Pointing HID) OR 8/3 (Identification HID) OR 8/4 (Other HID) is supported.
12/4	Get_Idle command	7.4.7	C.2	☑	C.2: Mandatory IF 8/2 (Keyboard HID) is supported; Optional IF 8/1 (Pointing HID) OR 8/3 (Identification HID) OR 8/4 (Other HID) is supported.
12/5	Set_Report command	7.4.4	C.3	☑	C.3: Mandatory IF 9/12 (Output reports declared) OR 9/14 (Feature reports declared) is supported, otherwise Excluded.
12/6	Get_Report command	7.4.3	C.4	☑	C.4: Mandatory IF 9/13 (Input reports declared) OR 9/14 (Feature reports declared) is supported, otherwise Excluded.

Table 13: HID Link Manager Procedures

Item	Capability	Reference	Support	Status	Comment
13/1	Host Initiated Authentication before connection completed	6.7.1.1	C.1	☑	C.1: Mandatory IF 8/2 (Keyboard HID) OR 8/3 (Identification HID) is supported. Optional IF 8/1 (Pointing HID) OR 8/4 (Other HID) is supported.
13/2	Host Initiated Authentication after connection	6.7.1.1	C.1	☑	C.1: Mandatory IF 8/2 (Keyboard HID) OR 8/3 (Identification HID) is supported. Optional IF 8/1 (Pointing HID) OR 8/4 (Other HID) is supported.
13/5	Encryption	9.0	C.1	☑	C.1: Mandatory IF 8/2 (Keyboard HID) OR 8/3 (Identification HID) is supported. Optional IF 8/1 (Pointing HID) OR 8/4 (Other HID) is supported.
13/7	Accept encryption requests	9.0	C.2	☑	C.2: Mandatory IF 13/5 (Encryption) is supported, otherwise Excluded.

Table 14: HID Link Control Requirements

Item	Capability	Reference	Support	Status	Comment
14/2	Supports inquiry scan, 79 channel	10.7.2	M	☑	

Table 9: HID Application Procedures

Prerequisite: HID 1/2

Item	Capability	Reference	Support	Status	Comment
9/2	Accept HID connection	7.1.1	M	☑	
9/4	Accept Termination of HID connection	7.1.1	M	☑	
9/9	HID data transfer to Host	7.1.3	C.2	☑	C.2: Mandatory to support one of 9/8 (Host Data transfer to HID) OR 9/9 (HID Data Transfer to Host) IF 1/2 (HID Role) is supported.
9/10	HID Boot mode data transfer to Host	7.2.1	C.3	☑	C.3: Mandatory IF 8/1 (Pointing HID) OR 8/2 (Keyboard HID) is supported, otherwise Excluded.
9/11	Host Boot mode data transfer to HID	7.2.1	C.4	☑	C.4: Mandatory IF 8/2 (Keyboard HID) is supported, otherwise Excluded.
9/12	Output reports declared	7.4.4	C.4	☑	C.4: Mandatory IF 8/2 (Keyboard HID) is supported, otherwise Excluded.
9/13	Input reports declared	7.4.3	C.3	☑	C.3: Mandatory IF 8/1 (Pointing HID) OR 8/2 (Keyboard HID) is supported, otherwise Excluded.

Interoperability Test Specification

Table 1: Interoperability Test Specification

Item	Capability	Reference	Support	Status	Comment
1/1	Interoperability	IOP	M	☑	

Table 2: Design Configuration

Item	Capability	Reference	Support	Status	Comment
2/1	BR/EDR	GAP 0/1	C.1, C.2	☑	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	☑	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	☑	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	☑	C.3: Mandatory IF SUM ICS 32/1 "Host Specification Part: Logical Link Control and Adaptation Protocol (L2CAP)" AND SUM ICS 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	☑	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	☑	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	☑	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.
1/5	LE Data Channel Initiator	[5] 3.4	C.4	☑	C.4: Optional IF (L2CAP 0/2 "LE" OR L2CAP 0/3 "BR/EDR/LE") AND L2CAP 2/46 "LE Credit Based Flow Control Mode" is supported, otherwise Excluded.
1/6	LE Data Channel Acceptor	[5] 3.4	C.5	☑	C.5: Mandatory IF (L2CAP 0/2 "LE" OR L2CAP 0/3 "BR/EDR/LE") AND L2CAP 2/46 "LE Credit Based Flow Control Mode" is supported, otherwise Excluded.

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.
2/5	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.
2/7	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.
2/8	Support of a channel group	[1] 2.2	C.17	☑	C.17: Optional 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 SUM ICS 31/17 "4.2+HS" is supported, otherwise Optional.
2/15	Generate Local Busy Condition	[2] 8.6.4.3	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.
2/16	Send Reject	[2] 8.6.1.2	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.
2/17	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.
2/18	Mandatory 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.
2/20	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.
2/22	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.
2/24	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.
2/26	Supports sending more than one unacknowledged I-Frame when operating in ERTM	[2] 8.6.5	C.9	☑	C.9: Optional IF L2CAP 2/12 "Enhanced Retransmission Mode" is supported, otherwise Excluded.
2/27	Supports sending more than three unacknowledged I-Frame when operating in ERTM	[2] 8.6.5	C.9	☑	C.9: Optional IF L2CAP 2/12 "Enhanced Retransmission Mode" is 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 SUM ICS 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.
2/46	Support LE Credit Based Flow Control Mode	[5] 3.4	C.19	☑	C.19: Optional IF (L2CAP 0/2 "LE" OR L2CAP 0/3 "BR/EDR/LE") is supported, otherwise Excluded.
2/47	Support for LE Data Channel	[1] 3.4	C.20	☑	C.20: Mandatory IF L2CAP 2/46 "Support LE Credit Based Flow Control Mode" 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.
3/12	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.
3/16	Support Multiple Simultaneous LE Data Channels	[5] 3.4	C.10	☑	C.10: Optional IF L2CAP 2/47 (Support LE Data Channel) AND SUM ICS 21/13 (v4.1) is supported, otherwise Excluded.

Low Energy Link Layer

Table 9: Supported Features

Item	Capability	Reference	Support	Status	Comment
9/1	LE Encryption	[1] 4.6.1	O	☑	
9/6	LE Data Packet Length Extension	[4] 4.6.6	O	☑	

Table 10: Scatternet Capabilities

Item	Capability	Reference	Support	Status	Comment
10/1	Act as LE Master and LE Slave at the same time	[3] 1.1.1	O	☑	
10/2	Act as LE Slave to more than one LE Master at the same time.	[3] 1.1.1	O	☑	

Table 11: Protocol Synchronizing Features

Prerequisite: LL 1/3a "Synchronized State"

Item	Capability	Reference	Support	Status	Comment

Table 1: Controller States/Roles

Item	Capability	Reference	Support	Status	Comment
1/1	Advertising State	[1] 4.4.2	C.1	☑	C.1: Mandatory to support at least one of (1/1 or 1/2 or 1/3).
1/2	Scanning State	[1] 4.4.3	C.1	☑	C.1: Mandatory to support at least one of (1/1 or 1/2 or 1/3).
1/3	Initiating State	[1] 4.4.4	C.1	☑	C.1: Mandatory to support at least one of (1/1 or 1/2 or 1/3).
1/4	Slave Role	[1] 4.5.5	C.3	☑	C.3: Optional if 1/1 is supported, otherwise Excluded.
1/5	Master Role	[1] 4.5.4	C.2	☑	C.2: Mandatory if 1/3 is supported, otherwise Excluded

Table 12: Protocol Isochronous Broadcasting Features

Prerequisite: LL 1/6 "Isochronous Broadcasting State"

Item	Capability	Reference	Support	Status	Comment

Table 2: Device Addresses Types

Prerequisite: LL 1/1 "Advertising State" OR LL 1/2 "Scanning State" OR LL 1/3 "Initiating State"

Item	Capability	Reference	Support	Status	Comment
2/1	Public Address	[1] 1.3	C.1	☑	C.1: Mandatory to support at least one of (LL 2/1 "Public Address" OR LL 2/3 "Static Address").
2/2	Random Address	[1] 1.3	C.1	☑	C.1: Mandatory to support at least one of (LL 2/1 "Public Address" OR LL 2/3 "Static Address").

Table 3: Protocol Advertising Features

Prerequisite: LL 1/1 "Advertising State"

Item	Capability	Reference	Support	Status	Comment
3/1	Non-Connectable and Non-Scannable Undirected Events	[1] 4.4.2.6	C.1	☑	C.1: Mandatory if GAP 5/1 (Broadcaster) is supported; Optional if GAP 5/3 (Peripheral), otherwise Not Defined.
3/2	Connectable and Scannable Undirected Events	[1] 4.4.2.3	C.2	☑	C.2: Mandatory if GAP 5/3 (Peripheral) is supported, otherwise Not Defined.
3/3	Advertising Data	[1] 4.4.2.3, 4.4.2.5, 4.4.2.6	M	☑	
3/4	Connectable Directed Events	[1] 4.4.2.4	O	☑	
3/4a	Low Duty Cycle Direct Advertising	[1] 4.4.2.4	O	☑	
3/5	Scannable Undirected Events	[1] 4.4.2.5	O	☑	
3/6	Sending Scan Responses	[1] 4.4.2.3, 4.4.2.5	C.2	☑	C.2: Mandatory IF GAP 5/3 "Peripheral" is supported, otherwise Optional.
3/7	Accepting Connection Requests	[1] 4.4.2.3, 4.4.2.4	C.2	☑	C.2: Mandatory IF GAP 5/3 "Peripheral" is supported, otherwise Optional.
3/8	Filtering Policies	[1] 4.3.2	O	☑	

Table 4: Protocol Scanning Features

Prerequisite: LL 1/2 "Scanning State"

Item	Capability	Reference	Support	Status	Comment
4/1	Passive Scanning	[1] 4.4.3.1	C.1	☑	C.1: Mandatory IF GAP 5/2 "Observer" is supported; Optional IF GAP 5/4 "Central" is supported, otherwise Optional.
4/2	Receiving Advertising Data	[1] 4.4.3.1, 4.4.3.2	M	☑	

4/3	Active Scanning	[1] 4.4.3.2	C.2	☑	C.2: Mandatory IF GAP 5/4 "Central" AND NOT LL 4/1 "Passive Scanning" is supported; Optional IF (GAP 5/4 "Central" AND NOT LL 4/1 "Passive Scanning") OR GAP 5/2 "Observer" is supported; otherwise Optional.
4/4	Backoff Procedure	[1] 4.4.3.2	M	☑	
4/5	Filtering Policies	[1] 4.3.3	M	☑	

Table 5: Protocol Initiating Features

Prerequisite: LL 1/3 "Initiating State"

Item	Capability	Reference	Support	Status	Comment
5/1	Requesting Connections	[1] 4.4.4	M	☑	
5/2	Requesting to Directed Advertising	[1] 4.4.4	M	☑	
5/3	Initiator Filtering	[1] 4.3.4	M	☑	

Table 6: Protocol Slave Role Features

Prerequisite: LL 1/4 "Slave Role"

Item	Capability	Reference	Support	Status	Comment
6/1	Slave Transmissions	[1] 4.5.1, 4.5.5, 4.5.6	M	☑	
6/2	Acknowledgement Scheme	[1] 4.5.9	M	☑	
6/3	Unknown Response	[1] 5.1.4, 2.4.2	M	☑	
6/4	Responding in Feature Setup	[1] 5.1.4	M	☑	
6/5	Sending Data (Device supports data output from a Host)	[1] 4.5.1, 4.5.6	M	☑	
6/6	Receiving Data (Device supports data input to a Host)	[1] 4.5.1, 4.5.6	M	☑	
6/7	More Data	[1] 4.5.6	O	☑	
6/10	Accepting Parameter Update	[1] 5.1.1	M	☑	
6/11	Accepting Channel Map Update	[1] 5.1.2	M	☑	
6/12	Encryption Start	[1] 5.1.3	C.17	☑	C.17: Mandatory if LL 9/1 "LE Encryption" is supported, otherwise Excluded.
6/13	Connection Control Timer	[1] 5.2	M	☑	
6/14	Sending Termination	[1] 5.1.6	M	☑	
6/15	Accepting Termination	[1] 5.1.6	M	☑	
6/16	Connection Supervision Timer	[1] 4.5.2	M	☑	
6/18	Slave Pause Encryption	[1] 5.1.3	C.17	☑	C.17: Mandatory if LL 9/1 "LE Encryption" is supported, otherwise Excluded.
6/19	Slave Version Exchange	[1] 5.1.5	M	☑	
6/20	Slave listens to multiple packets per connection event	4.5.7	O	☑	
6/22	Data Length Update Procedure	[4] 5.1.9	C.4	☑	C.4: Mandatory IF LL 9/6 (LE Data Packet Length Extension) is supported, otherwise Excluded.

Table 7: Protocol Master Role Features

Prerequisite: LL 1/5 "Master Role"

Item	Capability	Reference	Support	Status	Comment
7/1	Master Transmissions	[1] 4.5.1, 4.5.4, 4.5.6	M	☑	
7/2	Acknowledgement Scheme	[1] 4.5.9	M	☑	
7/3	Unknown Responses	[1] 5.1.4, 2.4.2	M	☑	
7/4	Requesting Feature Setup	[1] 5.1.4	M	☑	
7/5	Sending Data (Device supports data output from a Host)	[1] 4.5.1, 4.5.6	M	☑	

7/6	Receiving Data (Device supports data input to a Host)	[1] 4.5.1, 4.5.6	M	☑	
7/7	More Data	[1] 4.5.6	O	☑	
7/10	Requesting Parameter Update	[1] 5.1.1	M	☑	
7/11	Requesting Channel Map Update	[1] 5.1.2	M	☑	
7/12	Encryption Start	[1] 5.1.3	C.17	☑	C.17: Mandatory if LL 9/1 "LE Encryption", otherwise Excluded.
7/13	Connection Control Timer	[1] 5.2	M	☑	
7/14	Sending Termination	[1] 5.1.6	M	☑	
7/15	Accepting Termination	[1] 5.1.6	M	☑	
7/16	Connection Supervision Timer	[1] 4.5.2	M	☑	
7/19	Master Pause Encryption	[1] 5.1.3	C.17	☑	C.17: Mandatory if LL 9/1 "LE Encryption", otherwise Excluded.
7/20	Master Version Exchange	[1] 5.1.5	M	☑	
7/22	Data Length Update Procedure	[4] 5.1.9	C.4	☑	C.4: Mandatory IF LL 9/6 (LE Data Packet Length Extension) is supported, otherwise Excluded.

Table 8: Physical Channels

Item	Capability	Reference	Support	Status	Comment
8/1	Data channels (channel index 0 to 36)	[1] 1.4	C.1	☑	C.1: Mandatory IF LL 1/4 "Slave Role" OR LL 1/5 "Master Role" is supported, otherwise Excluded.
8/2	Advertising channels (at least one of channel index 37, 38, 39)	[1] 1.4.1	M	☑	
8/3	Support Data channel selection algorithm	[1] 4.5.8	C.1	☑	C.1: Mandatory IF LL 1/4 "Slave Role" OR LL 1/5 "Master Role" is supported, otherwise Excluded.

Link Manager

Table 1: Response Messages

Item	Capability	Reference	Support	Status	Comment
1/1	Accept message	[1] 2.7	M	☑	
1/2	Reject message	[1] 2.7	M	☑	

Table 2: Supported Features

Item	Capability	Reference	Support	Status	Comment
2/1	3-slot packets	[1] 3.3, 4.1.10	C.11	☑	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/2	5-slot packets	[1] 3.3, 4.1.10	C.11	☑	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/3	Encryption	[1] 3.3, 4.2.5	C.5	☑	C.5: Excluded IF LMP 2/21 "BR/EDR Not Supported" is supported, otherwise Mandatory.
2/4	Slot offset	[1] 3.3, 4.4.1	C.11	☑	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/5	Timing accuracy	[1] 3.3, 4.3.1	C.11	☑	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/6	Role switch (Master/Slave)	[1] 3.3, 4.4.2	C.11	☑	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/7	Hold mode	[1] 3.3, 4.5.1	C.11	☑	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/8	Sniff mode	[1] 3.3, 4.5.3	C.11	☑	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/10	Power Control	[1] 3.3, 4.1.3 [2] 3	C.1	☑	C.1: Mandatory IF RF 1/1 "Power Class 1" is supported; Excluded IF LMP 2/21 "BR/EDR Not Supported" is supported, otherwise Optional.
2/11	Channel quality driven data rate	[1] 3.3, 4.1.7	C.11	☑	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.

2/12	SCO link	[1] 3.3, 4.6.1	C.11	☑	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/13	RSSI	[1] 3.3	C.11	☑	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/14	Broadcast encryption	[1] 3.3, 4.2.5	C.11	☑	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/15	eSCO link	[1] 4.6.2	C.11	☑	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/16	Adaptive frequency hopping	[1] 4.1.4	C.11	☑	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/17	Enhanced Data Rate ACL	[3] 6.5.4 [1] 3.3	C.2	☑	C.2: Mandatory IF (SUM ICS 22/1 "EDR for asynchronous transports (single slot)" OR SUM ICS 22/2 "EDR for asynchronous transports (multi-slot)") is supported AND LMP 2/21 "BR/EDR Not Supported" is NOT supported; Excluded IF LMP 2/21 "BR/EDR Not Supported" is supported, otherwise Optional.
2/18	Enhanced Data Rate eSCO	[3] 6.5.3 [1] 3.3	C.3	☑	C.3: Mandatory IF SUM ICS 22/4 "EDR for synchronous transports, CSA1 and 3.0 + HS or later" is supported AND LMP 2/21 "BR/EDR Not Supported" is NOT supported; Excluded IF LMP 2/21 "BR/EDR Not Supported" is supported, otherwise Optional.
2/19	Simple Pairing (Host Support)	[1] 4.2.7	C.4	☑	C.4: Mandatory IF LMP 2/21 "BR/EDR Not Supported" is NOT supported, otherwise Excluded.
2/19a	Simple Pairing Updates	[6] [7] 4.2.7.4	C.16	☑	C.16: Mandatory IF LMP 2/19 "Simple Pairing" is supported, otherwise Excluded.
2/20	Enhanced Power Control	[1] 3.3, 4.1.3.1	C.6	☑	C.6: Excluded IF LMP 2/21 "BR/EDR Not Supported" is supported, Optional IF LMP 2/10 "Power Control" AND LMP 2/13 "RSSI" are supported.
2/22	LE Supported (Controller)	[1] 3.3	C.8	☑	C.8: Mandatory IF LMP 2/21 "BR/EDR Not Supported" is supported, otherwise Optional.
2/23	LE and BR/EDR to same device capable (Controller)	[1] 3.3	C.12	☑	C.12: Optional IF LMP 2/22 "LE Supported (Controller)" is supported AND LMP 2/21 "BR/EDR Not Supported" is NOT supported, otherwise Excluded.
2/24	LE Supported (Host)	[1] 3.3	C.7	☑	C.7: Optional IF LMP 2/22 "LE Supported (Controller)" is supported, otherwise Excluded.

Table 3: Authentication

Item	Capability	Reference	Support	Status	Comment
3/1	Initiate authentication before connection completed	[1] 4.2.1	O	☑	
3/2	Initiate authentication after connection completed	[1] 4.2.1	O	☑	
3/3	Respond to authentication request	[1] 4.2.1	M	☑	

Table 4: Pairing

Item	Capability	Reference	Support	Status	Comment
4/1	Initiate pairing before connection completed	[1] 4.4.2	O	☑	
4/2	Initiate pairing after connection completed	[1] 4.4.2	O	☑	
4/3	Respond to pairing request	[1] 4.2.2.1, 4.2.2.3	M	☑	
4/4	Use fixed PIN and request responder to initiator switch	[1] 4.2.2.2	C.1	☑	C.1: Mandatory to support at least one of LMP 4/4 "Use fixed PIN and request responder to initiator switch" OR LMP 4/5 "Use variable PIN".
4/5	Use variable PIN	[1] 4.2.2.2	C.1	☑	C.1: Mandatory to support at least one of LMP 4/4 "Use fixed PIN and request responder to initiator switch" OR LMP 4/5 "Use variable PIN".
4/6	Accept initiator to responder switch	[1] 4.2.2.2	C.2	☑	C.2: Mandatory IF LMP 4/5 "Use variable PIN" AND (LMP 4/1 "Initiate pairing before connection completed" OR LMP 4/2 "Initiate pairing after connection completed") is supported.

Table 5: Link Keys

Item	Capability	Reference	Support	Status	Comment
5/2	Creation of link key - Combination Key	[1] 4.2.2.4	M	☑	

Item	Capability	Reference	Support	Status	Comment
5/3	Initiate change of link key	[1] 4.2.3	O	☑	
5/4	Accept change of link key	[1] 4.2.3	M	☑	

Table 6: Encryption

Prerequisite: LMP 2/3 "Encryption supported"

Item	Capability	Reference	Support	Status	Comment
6/1	Initiate encryption	[1] 4.2.5.1	M	☑	
6/2	Accept encryption requests	[1] 4.2.5.1	M	☑	
6/5	Key size negotiation	[1] 4.2.5.2	M	☑	
6/6	Start encryption, as master	[1] 4.2.5.3	M	☑	
6/7	Accept start of encryption	[1] 4.2.5.3	M	☑	
6/8	Stop encryption , as master	[1] 4.2.5.4	M	☑	
6/9	Accept stop of encryption	[1] 4.2.5.4	M	☑	
6/10	Encryption Pause/Resume	[1] 4.2.5.3	M	☑	

Table 7: Clock Offset Information

Item	Capability	Reference	Support	Status	Comment
7/1	Request clock offset information	[1] 4.3.2	O	☑	
7/2	Respond to clock offset requests	[1] 4.3.2	M	☑	

Table 8: Slot Offset Information

Prerequisite: LMP 2/4 "Slot offset"

Item	Capability	Reference	Support	Status	Comment
8/1	Send slot offset information	[1] 4.4.1	C.1	☑	C.1: Mandatory IF LMP 13/1 "Request Master/Slave switch" is supported, otherwise Optional.

Table 9: Timing Accuracy Information

Prerequisite: LMP 2/5 "Timing Accuracy"

Item	Capability	Reference	Support	Status	Comment
9/1	Request timing accuracy information	[1] 4.3.1	O	☑	
9/2	Respond to timing accuracy information requests	[1] 4.3.1	M	☑	

Table 10: LM Version Information

Item	Capability	Reference	Support	Status	Comment
10/1	Request LM version information	[1] 4.3.3	O	☑	
10/2	Respond to LM version information requests	[1] 4.3.3	M	☑	

Table 11: Feature Support

Item	Capability	Reference	Support	Status	Comment
11/1	Request supported features	[1] 4.3.4	C.1	☑	C.1: Mandatory IF any of the Optional features in LMP 2/1 "3-slot packets", LMP 2/2 "5-slot packets", LMP 2/3 "Encryption", LMP 2/5 "Timing accuracy", LMP 2/7 "Hold mode", LMP 2/8 "Sniff mode", LMP 2/9 "Park mode", LMP 2/10 "Power Control", LMP 2/11 "Channel quality driven data rate", LMP 2/12 "SCO link", LMP 2/14 "Broadcast encryption", LMP 2/15 "eSCO link", LMP 2/16 "Adaptive Frequency Hopping" OR LMP 26/1 "Support of AFH switch as master" is supported, otherwise Optional.
11/2	Respond to supported features requests	[1] 4.3.4	M	☑	
11/3	Request extended features	[1] 4.3.4	C.2	☑	C.2: Mandatory if a feature requiring another features page is supported, otherwise Optional.

	mask				
11/4	Respond to extended features Request	[1] 4.3.4	C.2	☑	C.2: Mandatory if a feature requiring another features page is supported, otherwise Optional.

Table 12: Name Information

Item	Capability	Reference	Support	Status	Comment
12/1	Request name information	[1] 4.3.5	O	☑	
12/2	Respond to name requests	[1] 4.3.5	M	☑	

Table 13: Role Switch

Prerequisite: LMP 2/6 "Role switch"

Item	Capability	Reference	Support	Status	Comment
13/1	Request Master Slave switch	[1] 4.4.2	O	☑	
13/2	Accept Master Slave switch requests	[1] 4.4.2	M	☑	

Table 14: Detach

Item	Capability	Reference	Support	Status	Comment
14/1	Detach connection	[1] 4.1.2	M	☑	

Table 14a: Setting Up and Removing Enhanced Data Rate ACL Connection

Item	Capability	Reference	Support	Status	Comment
14a/1	Enter Enhanced Data Rate	[1] 4.1.11	C.1	☑	C.1: Mandatory IF LMP 2/17 "Enhanced Data Rate ACL" is supported, otherwise Excluded.
14a/2	Exit Enhanced Data Rate	[1] 4.1.11	C.1	☑	C.1: Mandatory IF LMP 2/17 "Enhanced Data Rate ACL" is supported, otherwise Excluded.

Table 14b: Setting Up and Removing Enhanced Data Rate eSCO Connection

Item	Capability	Reference	Support	Status	Comment
14b/1	Enter and Exit eSCO Using Enhanced Data Rate Packets	[1] 4.6.2	C.1	☑	C.1: Mandatory IF LMP 2/18 "Enhanced Data Rate eSCO" is supported, otherwise Excluded.

Table 15: Hold Mode

Prerequisite: LMP 2/7 "Hold mode"

Item	Capability	Reference	Support	Status	Comment
15/1	Force hold mode	[1] 4.5.1, 4.5.1.2	O	☑	
15/2	Request hold mode	[1] 4.5.1, 4.5.1.3	C.1	☑	C.1: Mandatory IF LMP 15/1 "Force hold mode" is supported, otherwise Optional.
15/3	Respond to hold mode requests	[1] 4.5.1, 4.5.1.3	M	☑	
15/4	Accept forced hold mode	[1] 4.5.1, 4.5.1.2	M	☑	

Table 16: Sniff Mode

Prerequisite: LMP 2/8 "Sniff mode"

Item	Capability	Reference	Support	Status	Comment
16/2	Request sniff mode	[1] 4.5.3, 4.5.3.2	O	☑	
16/3	Respond to sniff mode requests (renegotiate or reject)	[1] 4.5.3.2	M	☑	
16/5	Request un-sniff	[1] 4.5.3.2	C.1	☑	C.1: Mandatory IF LMP 16/2 "Request sniff mode" is supported, otherwise Optional.

Item	Capability	Reference	Status		
16/6	Accept un-sniff requests	[1] 4.5.3.2	M	☑	
16/7	Sniff Subrating Mode	[1] 4.5.3.2	M	☑	

Table 18: Power Control

Item	Capability	Reference	Support	Status	Comment
18/1	Request to increase power	[1] 4.1.3	C.1	☑	C.1: Mandatory IF LMP 2/13 "RSSI" is Supported, otherwise Excluded.
18/2	Request to decrease power	[1] 4.1.3	C.1	☑	C.1: Mandatory IF LMP 2/13 "RSSI" is Supported, otherwise Excluded.
18/3	Respond when max power reached	[1] 4.1.3	C.2	☑	C.2: Mandatory IF LMP 2/10 "Power Control" is Supported, otherwise Excluded.
18/4	Respond when min power reached	[1] 4.1.3	C.2	☑	C.2: Mandatory IF LMP 2/10 "Power Control" is Supported, otherwise Excluded.
18/5	Request to increment power a single step	[1] 4.1.3.1.1	C.3	☑	C.3: Mandatory IF LMP 2/20 "Enhanced Power Control" is Supported, otherwise Excluded.
18/6	Request to decrease power a single step	[1] 4.1.3.1.1	C.3	☑	C.3: Mandatory IF LMP 2/20 "Enhanced Power Control" is Supported, otherwise Excluded.
18/7	Request to go to max power	[1] 4.1.3.1.1	C.4	☑	C.4: Optional IF LMP 2/20 "Enhanced Power Control" is Supported, otherwise Excluded.
18/8	Respond to increment power a single step	[1] 4.1.3.1.2	C.3	☑	C.3: Mandatory IF LMP 2/20 "Enhanced Power Control" is Supported, otherwise Excluded.
18/9	Respond to decrease power a single step	[1] 4.1.3.1.2	C.3	☑	C.3: Mandatory IF LMP 2/20 "Enhanced Power Control" is Supported, otherwise Excluded.
18/10	Respond to go to max power	[1] 4.1.3.1.2	C.3	☑	C.3: Mandatory IF LMP 2/20 "Enhanced Power Control" is Supported, otherwise Excluded.

Table 19: Link Supervision Timeout

Item	Capability	Reference	Support	Status	Comment
19/1	Set link supervision timeout value	[1] 4.1.6	O	☑	
19/2	Accept link supervision timeout setting	[1] 4.1.6	M	☑	

Table 20: Quality of Service

Item	Capability	Reference	Support	Status	Comment
20/1	Channel quality driven change between DM and DH packet type	[1] 4.1.7	C.1	☑	C.1: Mandatory IF LMP 2/11 "Channel quality driven data rate" is supported, otherwise Optional.
20/2	Force/Request change of Quality of Service	[1] 4.1.8, 4.1.8.1	M	☑	
20/3	Request Change of Quality of Service	[1] 4.1.8, 4.1.8.2	M	☑	

Table 21: SCO Links

Prerequisite: LMP 2/12 "SCO link"

Item	Capability	Reference	Support	Status	Comment
21/1	Initiate SCO links, as Master	[1] 4.6.1, 4.6.1.1	O	☑	
21/2	Initiate SCO links, as Slave	[1] 4.6.1, 4.6.1.2	O	☑	
21/3	Accept SCO links	[1] 4.6.1, 4.6.1.1, 4.6.1.2	O	☑	
21/4	Remove SCO links, as Master	[1] 4.6.1, 4.6.1.5	C.1	☑	C.1: Mandatory IF LMP 21/1 "Initiating SCO links, as Master" is supported, otherwise Optional.
21/5	Remove SCO links, as Slave	[1] 4.6.1, 4.6.1.5	C.2	☑	C.2: Mandatory IF LMP 21/2 "Initiating SCO links, as Slave" is supported, otherwise Optional.
21/6	Negotiate SCO link parameters, as Master	[1] 4.6.1, 4.6.1.3	C.3	☑	C.3: Mandatory IF (LMP 21/1 "Initiating SCO links, as Master" OR LMP 21/3 "Accept SCO links") is supported, otherwise Optional.
21/7	Negotiate SCO link parameters, as Slave	[1] 4.6.1, 4.6.1.4	C.4	☑	C.4: Mandatory IF (LMP 21/2 "Initiating SCO links, as Slave" OR LMP 21/3 "Accept SCO links") is supported, otherwise Optional.

Table 22: Multi-Slot Packets

Item	Capability	Reference	Support	Status	Comment
22/1	Accept maximum allowed number of slots to be used	[1] 4.1.10	C.1	☑	C.1: Mandatory IF LMP 2/1 "3-slot packets" OR LMP 2/2 "5-slot packets" are supported, otherwise Optional.
22/2	Request maximum number of slots to be used	[1] 4.1.10	C.1	☑	C.1: Mandatory IF LMP 2/1 "3-slot packets" OR LMP 2/2 "5-slot packets" are supported, otherwise Optional.
22/3	Accept request of maximum number of slots to be used	[1] 4.1.10	C.1	☑	C.1: Mandatory IF LMP 2/1 "3-slot packets" OR LMP 2/2 "5-slot packets" are supported, otherwise Optional.

Table 23: Paging Scheme

Item	Capability	Reference	Support	Status	Comment

Table 24: Connection Establishment

Item	Capability	Reference	Support	Status	Comment
24/1	Create connection for higher layers	[1] 4.1.1	M	☑	
24/2	Respond to requests to establish connections for higher layers	[1] 4.1.1	M	☑	
24/3	Indicate that link set-up is complete	[1] 4.1.1	M	☑	

Table 25: Test Mode

Item	Capability	Reference	Support	Status	Comment
25/1	Activate test mode	[1] 4.7.1	O	☑	
25/2	Ability to reject activation of test mode if test mode is disabled	[1] 4.7.1	M	☑	
25/3	Control test mode	[1] 4.7.2	O	☑	
25/4	Ability to reject est mode control commands if test mode is disabled.	[1] 4.7.2	M	☑	

Table 26: Adaptive Frequency Hopping

Prerequisite: LMP 2/16 "AFH"

Item	Capability	Reference	Support	Status	Comment
26/1	Support of AFH switch as master	[1] 4.1.4	O	☑	
26/2	Support of AFH switch as slave	[1] 4.1.4	M	☑	
26/3	Support of Channel Classification reporting - post Role Switch (as Slave)	[1] 4.1.5	C.1	☑	C.1: Optional IF LMP 26/6 "Support of Channel Classification" is supported, otherwise Excluded.
26/4	Support of Channel Classification reporting as slave	[1] 4.1.5	C.2	☑	C.2: Mandatory IF LMP 26/6 "Support of Channel Classification" is supported, otherwise Excluded.
26/5	Support channel classification from host	[1] 4.1.5	C.3	☑	C.3: Mandatory IF LMP 26/1 "Support of AFH switch as master" OR LMP 26/4 "Support of Channel Classification reporting as slave" is supported, otherwise Optional.
26/6	Support of Channel Classification	[1] 4.1.5	O	☑	

Table 27: Ping

Prerequisite: LMP 2/27 "Ping"

Item	Capability	Reference	Support	Status	Comment

Table 28: Coarse Clock Adjustment

Prerequisite: LMP 2/28 "Support of Coarse Clock Adjustment"

Item	Capability	Reference	Support	Status	Comment

Table 29: Slot Availability Mask

Prerequisite: LMP 2/29 "Slot Availability Mask"

Item	Capability	Reference	Support	Status	Comment

Radio

Table 1: RF Capabilities

Item	Capability	Reference	Support	Status	Comment
1/1	Power Class 1	[1] 3	C.5	☑	C.5: At least one of RF 1/1 "Power Class 1" OR RF 1/2 "Power Class 2" OR 1/3 "Power Class 3" shall be supported.
1/4	Power Control	[1] 3	C.1	☑	C.1: Mandatory IF RF 1/1 "Power Class 1" is supported; Optional IF RF 1/2 "Power Class 2" OR RF 1/3 "Power Class 3" is supported, otherwise Excluded.
1/5	1-slot packets supported	[2] 6.5	M	☑	
1/6	3-slot packets supported	[2] 6.5	O	☑	
1/7	5-slot packets supported	[2] 6.5	O	☑	
1/8	79 Channels	[1] 2	M	☑	
1/9	Support for GFSK modulation	[1] 3.1	M	☑	
1/10	Support for pi/4-DQPSK modulation	[1] 3.2	C.2	☑	C.2: Mandatory IF (SUM ICS 22/1 "EDR for asynchronous transports (single slot)" OR SUM ICS 22/2 "EDR for asynchronous transports (multi-slot)" OR SUM ICS 22/3 "EDR for synchronous transports" OR SUM ICS 22/4 "EDR for synchronous transports") is supported, otherwise Excluded.
1/11	Support for 8DPSK modulation	[1] 3.2	C.3	☑	C.3: Mandatory IF (SUM ICS 22/1 "EDR for asynchronous transports (single slot)" OR SUM ICS 22/2 "EDR for asynchronous transports (multi-slot) OR SUM ICS 22/3 "EDR for synchronous transports") is supported; Optional IF (SUM ICS 22/4 "EDR for synchronous transports") is supported, otherwise Excluded.
1/12	Enhanced Power Control	[1] 3	C.4	☑	C.4: Optional IF SUM_ICS, 21/8 "Core Specification 3.0" or later AND RF 1/4 "Power Control" is supported, otherwise Excluded.

Low Energy RF PHY

Table 1: Bluetooth LE RF Capabilities

Item	Capability	Reference	Support	Status	Comment
1/3	LE Transceiver	[1] 3, 4	C.1	☑	C.1: Mandatory to support at least one of these capabilities. Note that selecting both RF PHY 1/1 "LE Transmitter" and RF PHY 1/2 "LE Receiver" is equivalent to selecting RF PHY 1/3 "LE Transceiver" and vice versa.

Table 2: Bluetooth LE Test Interface Capabilities

Item	Capability	Reference	Support	Status	Comment
2/1	HCI Test Interface	[2] 2	C.1	☑	C.1: At least one of the capabilities shall be supported.

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.

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.
2/2	Support for respond on search of Service, using continuation state	[1] 4.5	O	☑	

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	☑	
4/2	Support for respond on search of Attribute, using continuation state.	[1] 4.6	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	☑	
6/2	Support for respond on search of Attribute, using continuation state.	[1] 4.7	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
8/1	Support for browsing, using SDP_ServiceSearchRequest and SDP_ServiceAttributeRequest	[1] 4.5, 4.6, 2.8	O	☑	
8/2	Support for browsing, using SDP_ServiceSearchAttributeRequest	[1] 4.7, 2.8	O	☑	

Table 9: Attributes Present in IUT

Item	Capability	Reference	Support	Status	Comment
9/2	ProtocolDescriptorList	[5] 5.1.5	O	☑	
9/5	BrowseGroupList	[5] 5.1.7	O	☑	
9/6	LanguageBaseAttributedIdList	[5] 5.1.8	O	☑	
9/9	ServiceName	[5] 5.1.15	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	☑

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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.
4/3	Out of Band	[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
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	☑	
2/4	OOB supported	[1] 2.3.1	O	☑	

Table 3: Encryption Key Size

Prerequisite: SM 2/1 or SM 2/2 or SM 2/4

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
6/1	Signing Algorithm - Generation	[1] 2.4	O	☑	
6/2	Signing Algorithm - Resolving	[1] 2.4	O	☑	

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.
7/2	Identity Key	[2] 10.7	C.2	☑	C.2: Mandatory IF GAP 26/3 "Resolvable Private Address Generation Procedure" is supported, otherwise Optional.
7/3	Signing Key	[2] 10.4	C.3	☑	C.3: Mandatory IF GAP 25/6 "Authenticate Signed Data Procedure" OR 35/6 "Authenticate Signed Data Procedure" is supported, otherwise Optional.

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.
7/2	Identity Key	[2] 10.7	C.2	☑	C.2: Mandatory IF GAP 26/3 "Resolvable Private Address Generation Procedure" is supported, otherwise Optional.
7/3	Signing Key	[2] 10.4	C.3	☑	C.3: Mandatory IF GAP 25/6 "Authenticate Signed Data Procedure" OR 35/6 "Authenticate Signed Data Procedure" is supported, otherwise Optional.