Project Details

Project Name	FR508x
Product Type	Component (Tested)
TCRL Version:	TCRL 2021-2
Referenced Qualified Design(s)	
Previously Qualified Design Used in this Qualification(s)	
Listing Date	2022-09-08
Declaration ID	D058882

Product Listing(s)

Name	Website	Category	Publish Date	Model Number	Description
Freqchip FRQ-BTDM5.3		Unique Products	9/8/2022 12:00:00 AM	FR5xxx	Bluetooth dual mode solution for low power wireless applications

Member Company	Shanghai Frequen Microelectronics Co., Ltd.

Declaring Member Contact / Listing Contact Person	**Name**	owen liu
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	State	
	Country	China
	Postal Code	

Complete the Project and Submit Product(s) for Qualification

By typing my name or other symbol of my signature into the "Signature" field below, I agree on behalf of Shanghai Frequen Microelectronics 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:

owen liu

BLUETOOTH® LAUNCH STUDIO TERMS OF USE

Last Updated: February 25, 2021.

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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).

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

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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
21/21	Core Specification Version 5.3. Adopted 06 July 2021	Core 5.3	C.1	☑	C.1: Mandatory to support one and only one of SUM ICS 21/14 "Core v4.2" OR SUM ICS 21/16 "Core v5.0" OR SUM ICS 21/18 "Core v5.1" OR SUM ICS 21/20 "Core v5.2" OR SUM ICS 21/21 "Core v5.3".

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 of SUM ICS 22/1 "EDR for asynchronous transports (single slot)" OR SUM ICS 22/2 "EDR for asynchronous transports (multi-slot)" OR SUM ICS 22/4 "EDR for synchronous transports (Core 3.0 or later)" IF SUM ICS 41/1 "Core v3.0+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 of SUM ICS 22/1 "EDR for asynchronous transports (single slot)" OR SUM ICS 22/2 "EDR for asynchronous transports (multi-slot)" OR SUM ICS 22/4 "EDR for synchronous transports (Core 3.0 or later)" IF SUM ICS 41/1 "Core v3.0+HS or later" is supported, otherwise Optional.

Table 31: Host Core Specification

Item	Capability	Reference	Support	Status	Comment
31/22	Core Specification Version 5.3. Adopted 06 July 2021	Core 5.3	C.1	☑	C.1: Mandatory to support one and only one of SUM ICS 31/17 "Core v4.2" OR SUM ICS 31/18 "Core v4.2+HS" OR SUM ICS 31/19 "Core v5.0" OR SUM ICS 31/20 "Core v5.1" OR SUM ICS 31/21 "Core v5.2" OR SUM ICS 31/22 "Core v5.3".

Table 34: LE Host Specification Parts

Item	Capability	Reference	Support	Status	Comment

Table 41: AMP Controller Core Specification

Prerequisite: SUM ICS 21/14 "Core v4.2" OR SUM ICS 21/16 "Core v5.0" OR SUM ICS 21/18 "Core v5.1" OR SUM ICS 21/20 "Core v5.2"

Item	Capability	Reference	Support	Status	Comment

Table 42: AMP Controller Specification Parts

Prerequisite: SUM ICS 21/14 "Core v4.2" OR SUM ICS 21/16 "Core v5.0" OR SUM ICS 21/18 "Core v5.1" OR SUM ICS 21/20 "Core v5.2"

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
1/2	Component (Tested)	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.

4.0 Host Controller Interface

Table 1a: IUT Configuration

Item	Capability	Reference	Support	Status	Comment
1a/2	Host	[1] 1.0	C.0	☑	C.0: Mandatory to support at least one of HCI 1a/1 "BR/EDR Controller" OR HCI 1a/2 "Host" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller" the defined IUT Configurations.
1a/4	LE Controller	[1] 1.0	C.0, C.901	☑	C.0: Mandatory to support at least one of the defined IUT Configurations. C.901: Optional IF SUM ICS 21/14 "Core v4.2" OR SUM ICS 21/16 "Core v5.0" OR SUM ICS 21/18 "Core v5.1" OR SUM ICS 21/20 "Core v5.2" is supported, otherwise Excluded.

Table 1:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
1/1	Command Complete event	[1] 7.7.14	M	☑	
1/2	Command Status event	[1] 7.7.15	M	☑	

Table 2:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
2/1	Reset command	[1] 7.3.2	M	☑	

Table 3:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
3/5	LE Read Buffer Size command [v1]	[1] 7.8.2	M	☑	
3/6	LE Request Peer SCA command	[8] 7.8 .108	Core v.5.2 or later | C.44	☑	Core v.5.2 or later C.44: Mandatory IF LL 9/30 "Sleep Clock Accuracy Update" AND (LL 9/31 "Connected Isochronous Stream Central" OR LL 9/32 "Connected Isochronous Stream Peripheral") are supported, otherwise Optional IF LL 9/30 "Sleep Clock Accuracy Update" is supported, otherwise Excluded.
3/7	LE Request Peer SCA Complete event	[8] 7.7.65.31	Core v.5.2 or later | C.95	☑	Core v.5.2 or later C.95: Mandatory IF HCI 3/6 "LE Request Peer SCA command" is supported, otherwise Excluded.
3/8	LE Read Buffer Size command [v2]	[8] 7.8.2	Core v.5.2 or later | C.55	☑	Core v.5.2 or later C.55: Mandatory IF LL 9/31 "Connected Isochronous Stream Central" OR LL 9/32 "Connected Isochronous Stream Peripheral" OR LL 9/33 "Isochronous Broadcaster" is supported, otherwise Optional IF LL 1/4 "Peripheral Role" OR LL 1/5 "Central Role" is supported, otherwise Excluded.
3/9	LE Read ISO TX Sync command	[8] 7.8.96	Core v.5.2 or later |	☑	Core v.5.2 or later C.45: Mandatory IF LL 9/31 "Connected Isochronous Stream Central" OR LL 9/32 "Connected Isochronous Stream Peripheral" OR LL 9/33 "Isochronous Broadcaster" is supported, otherwise Excluded.

Table 4:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
4/1	Read Local Version Information command	[1] 7.4.1	M	☑	
4/2	Read Local Supported Commands command	[1] 7.4.2	M	☑	
4/3	Read Local Supported Features command	[1] 7.4.3	M	☑	
4/5	Read BD_ADDR command	[1] 7.4.6	M	☑	
4/8	LE Read Local Supported Features command	[1] 7.8.3	M	☑	
4/9	LE Read Supported States command	[1] 7.8.27	M	☑	

Table 5:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
5/13	LE Set Random Address command	[1] 7.8.4	C.1	☑	C.1: Mandatory IF RFPHY 1/1 "LE Transmitter" OR RFPHY 1/3 "LE Transceiver" is supported, otherwise Excluded.
5/14	LE Read Filter Accept List Size command	[1] 7.8.14	M	☑	
5/15	LE Add Device To Filter Accept List command	[1] 7.8.16	M	☑	
5/16	LE Clear Filter Accept List command	[1] 7.8.15	M	☑	
5/17	LE Remove Device From Filter Accept List command	[1] 7.8.17	M	☑	
5/27	LE Add Device To Resolving List command	[4] 7.8.38	C.9	☑	C.9: Mandatory IF LL 9/13 "LL Privacy" is supported, otherwise Excluded.
5/28	LE Remove Device From Resolving List command	[4] 7.8.39	C.9	☑	C.9: Mandatory IF LL 9/13 "LL Privacy" is supported, otherwise Excluded.
5/29	LE Clear Resolving List command	[4] 7.8.40	C.9	☑	C.9: Mandatory IF LL 9/13 "LL Privacy" is supported, otherwise Excluded.
5/30	LE Read Resolving List Size command	[4] 7.8.41	C.9	☑	C.9: Mandatory IF LL 9/13 "LL Privacy" is supported, otherwise Excluded.
5/31	LE Set Address Resolution Enable command	[4] 7.8.44	C.9	☑	C.9: Mandatory IF LL 9/13 "LL Privacy" is supported, otherwise Excluded.
5/32	LE Set Resolvable Private Address Timeout command	[4] 7.8.45	C.9	☑	C.9: Mandatory IF LL 9/13 "LL Privacy" is supported, otherwise Excluded.
5/33	LE Set Advertising Set Random Address command	[5] 7.8.52	Core v.5.0 or later | C.17	☑	Core v.5.0 or laterC.17: Mandatory IF LL 3/9 "Extended Advertising" is supported, otherwise Excluded.
5/34	LE Set Extended Advertising Parameters command	[5] 7.8.53	Core v.5.0 or later | C.17	☑	Core v.5.0 or later C.17: Mandatory IF LL 3/9 "Extended Advertising" is supported, otherwise Excluded.
5/35	LE Set Periodic Advertising Parameters command	[5] 7.8.61	Core v.5.0 or later | C.18	☑	Core v.5.0 or later C.18: Mandatory IF LL 3/10 "Periodic Advertising" is supported, otherwise Excluded.
5/36	LE Set Extended Advertising Data command	[5] 7.8.54	Core v.5.0 or later | C.17	☑	Core v.5.0 or later C.17: Mandatory IF LL 3/9 "Extended Advertising" is supported, otherwise Excluded.
5/37	LE Set Periodic Advertising Data	[5] 7.8.62	Core v.5.0 or	☑	Core v.5.0 or later C.18: Mandatory IF LL 3/10 "Periodic Advertising" is supported, otherwise Excluded.

	command		later | C.18		
5/38	LE Set Extended Scan Response Data command	[5] 7.8.55	Core v.5.0 or later | C.17	☑	Core v.5.0 or later C.17: Mandatory IF LL 3/9 "Extended Advertising" is supported, otherwise Excluded.
5/39	LE Scan Request Received event	[5] 7.7.65.19	Core v.5.0 or later | C.17	☑	Core v.5.0 or later C.17: Mandatory IF LL 3/9 "Extended Advertising" is supported, otherwise Excluded.
5/40	LE Set Extended Advertising Enable command	[5] 7.8.56	Core v.5.0 or later | C.17	☑	Core v.5.0 or later C.17: Mandatory IF LL 3/9 "Extended Advertising" is supported, otherwise Excluded.
5/41	LE Set Periodic Advertising Enable command	[5] 7.8.63	Core v.5.0 or later | C.18	☑	Core v.5.0 or later C.18: Mandatory IF LL 3/10 "Periodic Advertising" is supported, otherwise Excluded.
5/42	LE Read Maximum Advertising Data Length command	[5] 7.8.57	Core v.5.0 or later | C.17	☑	Core v.5.0 or later C.17: Mandatory IF LL 3/9 "Extended Advertising" is supported, otherwise Excluded.
5/43	LE Read Number of Supported Advertising Sets command	[5] 7.8.58	Core v.5.0 or later | C.17	☑	Core v.5.0 or later C.17: Mandatory IF LL 3/9 "Extended Advertising" is supported, otherwise Excluded.
5/44	LE Read Transmit Power command	[5] 7.8.74	Core v.5.0 or later | C.64	☑	Core v.5.0 or later C.64: Optional IF RFPHY 1/1 "LE Transmitter" OR RFPHY 1/3 "LE Transceiver" is supported, otherwise Excluded.
5/45	LE Write RF Path Compensation command	[5] 7.8.76	Core v.5.0 or later | C.22	☑	Core v.5.0 or later C.22: Mandatory IF LL 3/12 "Sending Tx Power in Advertisements" OR LL 9/37 "LE Power Control Request" is supported, otherwise Optional.
5/46	LE Read RF Path Compensation command	[5] 7.8.75	Core v.5.0 or later | C.22	☑	Core v.5.0 or later C.22: Mandatory IF LL 3/12 "Sending Tx Power in Advertisements" OR LL 9/37 "LE Power Control Request" is supported, otherwise Optional.
5/47	LE Remove Advertising Set command	[5] 7.8.59	Core v.5.0 or later | C.17	☑	Core v.5.0 or later C.17: Mandatory IF LL 3/9 "Extended Advertising" is supported, otherwise Excluded.
5/48	LE Clear Advertising Sets command	[5] 7.8.60	Core v.5.0 or later | C.17	☑	Core v.5.0 or later C.17: Mandatory IF LL 3/9 "Extended Advertising" is supported, otherwise Excluded.
5/49	LE Advertising Set Terminated event	[5] 7.7.65.18	Core v.5.0 or later | C.17	☑	Core v.5.0 or later C.17: Mandatory IF LL 3/9 "Extended Advertising" is supported, otherwise Excluded.
5/54	LE Setup ISO Data Path command	[8] 7.8.109	Core v.5.2 or later | C.47	☑	Core v.5.2 or later C.47: Mandatory IF LL 9/31 "Connected Isochronous Stream Central" OR LL 9/32 "Connected Isochronous Stream Peripheral", OR LL 9/33 "Isochronous Broadcaster" OR LL 9/34 "Synchronized Receiver" is supported, otherwise Excluded.
5/55	LE Remove ISO Data Path command	[8] 7.8.110	Core v.5.2 or later | C.47	☑	Core v.5.2 or later C.47: Mandatory IF LL 9/31 "Connected Isochronous Stream Central" OR LL 9/32 "Connected Isochronous Stream Peripheral", OR LL 9/33 "Isochronous Broadcaster" OR LL 9/34 "Synchronized Receiver" is supported, otherwise Excluded.
5/56	LE Set CIG Parameters command	[8] 7.8.97	Core v.5.2 or later | C.39	☑	Core v.5.2 or later C.39: Mandatory IF LL 9/31 "Connected Isochronous Stream Central" is supported, otherwise Excluded
5/57	LE Remove CIG command	[8] 7.8.100	Core v.5.2 or later | C.39	☑	Core v.5.2 or later C.39: Mandatory IF LL 9/31 "Connected Isochronous Stream Central" is supported, otherwise Excluded
5/58	LE Set CIG Parameters Test command	[8] 7.8.98	Core v.5.2 or	☑	Core v.5.2 or later C.39: Mandatory IF LL 9/31 "Connected Isochronous Stream Central" is supported, otherwise Excluded

				later | C.39		
5/59	LE Enhanced Read Transmit Power Level command	[8] 7.8.117	Core v.5.2 or later | C.51	☑	Core v.5.2 or later C.51: Mandatory IF LL 9/37 "LE Power Control Request" is supported, otherwise Excluded.
5/62	LE Transmit Power Reporting event	[8] 7.7.65.33	Core v.5.2 or later | C.51	☑	Core v.5.2 or later C.51: Mandatory IF LL 9/37 "LE Power Control Request" is supported, otherwise Excluded.
5/64	LE Set Transmit Power Reporting Enable command	[8] 7.8.121	Core v.5.2 or later | C.51	☑	Core v.5.2 or later C.51: Mandatory IF LL 9/37 "LE Power Control Request" is supported, otherwise Excluded.

Table 6:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
6/15	LE Set Advertising Enable command	[1] 7.8.9	C.97	☑	C.97: Mandatory IF LL 1/1 "Advertising State" is supported, otherwise Excluded.
6/16	LE Set Advertising Parameters command	[1] 7.8.5	C.97	☑	C.97: Mandatory IF LL 1/1 "Advertising State" is supported, otherwise Excluded.
6/17	LE Set Scan Response Data command	[1] 7.8.8	C.15	☑	C.15: Mandatory IF LL 3/2 "Connectable and Scannable Undirected Events" OR LL 3/5 "Scannable Undirected Events" OR LL 3/5a "Scannable Directed Events" is supported, otherwise Excluded.
6/18	LE Set Advertising Data command	[1] 7.8.7	C.97	☑	C.97: Mandatory IF LL 1/1 "Advertising State" is supported, otherwise Excluded.
6/19	LE Advertising Report event	[1] 7.7.65.2	C.98	☑	C.98: Mandatory IF LL 1/2 "Scanning State" is supported, otherwise Excluded.
6/20	LE Set Scan Enable command	[1] 7.8.11	C.98	☑	C.98: Mandatory IF LL 1/2 "Scanning State" is supported, otherwise Excluded.
6/21	LE Set Scan Parameters command	[1] 7.8.10	C.98	☑	C.98: Mandatory IF LL 1/2 "Scanning State" is supported, otherwise Excluded.
6/22	LE Read Advertising Physical Channel Tx Power command	[1] 7.8.6	C.97	☑	C.97: Mandatory IF LL 1/1 "Advertising State" is supported, otherwise Excluded.
6/26	LE Directed Advertising Report event	[4] 7.7.65.11	C.63	☑	C.63: Mandatory IF LL 1/2 "Scanning State" AND LL 9/13 "LL Privacy" is supported, otherwise Excluded.
6/27	LE Set Extended Scan Parameters command	[5] 7.8.64	Core v.5.0 or later | C.19	☑	Core v.5.0 or later C.19: Mandatory IF LL 4/7 "Extended Scanning" is supported, otherwise Excluded.
6/28	LE Set Extended Scan Enable command	[5] 7.8.65	Core v.5.0 or later | C.19	☑	Core v.5.0 or later C.19: Mandatory IF LL 4/7 "Extended Scanning" is supported, otherwise Excluded.
6/29	LE Extended Advertising Report event	[5] 7.7.65.13	C.19	☑	C.19: Mandatory IF LL 4/7 "Extended Scanning" is supported, otherwise Excluded.
6/30	LE Periodic Advertising Create Sync command	[5] 7.8.67	Core v.5.0 or later | C.16	☑	Core v.5.0 or later C.16: Mandatory IF LL 4/8 "Scanning for Periodic Advertising" AND LL 1/3a "Synchronized State" are supported, otherwise Excluded.
6/31	LE Periodic Advertising Create Sync Cancel command	[5] 7.8.68	Core v.5.0 or later | C.16	☑	Core v.5.0 or later C.16: Mandatory IF LL 4/8 "Scanning for Periodic Advertising" AND LL 1/3a "Synchronized State" are supported, otherwise Excluded.
6/32	LE Periodic Advertising Terminate Sync command	[5] 7.8.69	Core v.5.0 or later | C.21	☑	Core v.5.0 or later C.21: Mandatory IF LL 11/1 "Synchronizing to Periodic Advertising" is supported, otherwise Excluded.
6/33	LE Periodic Advertising Report event	[5] 7.7.65.15	Core v.5.0 or later | C.21	☑	Core v.5.0 or later C.21: Mandatory IF LL 11/1 "Synchronizing to Periodic Advertising" is supported, otherwise Excluded.
6/34	LE Periodic Advertising Sync Lost event	[5] 7.7.65.16	Core v.5.0 or later | C.21	☑	Core v.5.0 or later C.21: Mandatory IF LL 11/1 "Synchronizing to Periodic Advertising" is supported, otherwise Excluded.
6/35	LE Periodic Advertising Sync Established event	[5] 7.7.65.14	Core v.5.0 or later | C.16	☑	Core v.5.0 or later C.16: Mandatory IF LL 4/8 "Scanning for Periodic Advertising" AND LL 1/3a "Synchronized State" are supported, otherwise Excluded.

6/36	LE Scan Timeout event	[5] 7.7.65.17	Core v.5.0 or later | C.19	☑	Core v.5.0 or later C.19: Mandatory IF LL 4/7 "Extended Scanning" is supported, otherwise Excluded.
6/37	LE Set Periodic Advertising Receive Enable command	[6] 7.8.88	Core v.5.1 or later | C.32	☑	Core v.5.1 or later C.32: Mandatory IF LL 9/27 "Periodic Advertising Sync Transfer – Recipient" is supported, otherwise Optional IF LL 11/1 "Synchronizing to Periodic Advertising" is supported, otherwise Excluded.
6/38	LE BIG Create Sync command	[8] 7.8.106	Core v.5.2 or later | C.42	☑	Core v.5.2 or later C.42: Mandatory IF LL 9/34 "Synchronized Receiver" is supported, otherwise Excluded.
6/39	LE BIG Sync Established event	[8] 7.7.65.29	Core v.5.2 or later | C.42	☑	Core v.5.2 or later C.42: Mandatory IF LL 9/34 "Synchronized Receiver" is supported, otherwise Excluded.
6/40	LE Terminate BIG command	[8] 7.8.105	Core v.5.2 or later | C.41	☑	Core v.5.2 or later C.41: Mandatory IF LL 9/33 "Isochronous Broadcaster" is supported, otherwise Excluded.
6/41	LE BIG Sync Lost event	[8] 7.7.65.30	Core v.5.2 or later | C.42	☑	Core v.5.2 or later C.42: Mandatory IF LL 9/34 "Synchronized Receiver" is supported, otherwise Excluded.
6/42	LE BIG Terminate Sync command	[8] 7.8.107	Core v.5.2 or later | C.42	☑	Core v.5.2 or later C.42: Mandatory IF LL 9/34 "Synchronized Receiver" is supported, otherwise Excluded.
6/43	LE Terminate BIG Complete event	[8] 7.7.65.28	Core v.5.2 or later | C.41	☑	Core v.5.2 or later C.41: Mandatory IF LL 9/33 "Isochronous Broadcaster" is supported, otherwise Excluded.
6/44	LE BIGInfo Advertising Report event	[8] 7.7.65.34	Core v.5.2 or later | C.54	☑	Core v.5.2 or later C.54: Mandatory IF LL 9/34 "Synchronized Receiver" is supported, otherwise Optional.

Table 7:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
7/5	Disconnect command	[1] 7.1.6	C.3b	☑	C.3b: Mandatory IF HCI 1a/1 "BR/EDR Controller" OR LL 1/4 "Peripheral Role" OR LL 1/5 "Central Role" is supported, otherwise Excluded.
7/12	Read Connection Accept Timeout command	[1] 7.3.13	C.40a	☑	C.40a: Mandatory IF (HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR LL 9/32 "Connected Isochronous Stream Peripheral") is supported, otherwise Excluded
7/13	Write Connection Accept Timeout command	[1] 7.3.14	C.40a	☑	C.40a: Mandatory IF (HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR LL 9/32 "Connected Isochronous Stream Peripheral") is supported, otherwise Excluded
7/23	LE Create Connection command	[1] 7.8.12	C.59	☑	C.59: Mandatory IF LL 1/5 "Central Role" is supported, otherwise Excluded.
7/24	LE Create Connection Cancel command	[1] 7.8.13	C.94	☑	C.94: Mandatory IF HCI 7/23 "LE Create Connection command" OR HCI 7/41 "LE Extended Create Connection command" is supported, otherwise Excluded.
7/25	LE Connection Complete event	[1] 7.7.65.1	C.3	☑	C.3: Mandatory IF LL 1/4 "Peripheral Role" OR LL 1/5 "Central Role" is supported, otherwise Excluded.
7/26	Disconnection Complete event	[1] 7.7.5	C.3b	☑	C.3b: Mandatory IF HCI 1a/1 "BR/EDR Controller" OR LL 1/4 "Peripheral Role" OR LL 1/5 "Central Role" is supported, otherwise Excluded.
7/27	LE Connection Update command	[1] 7.8.18	C.62	☑	C.62: Mandatory IF LL 1/5 "Central Role" OR (LL 1/4 "Peripheral Role" AND LL 9/3 "Connection Parameters Request Procedure") is supported, otherwise Excluded.
7/28	LE Connection Update Complete event	[1] 7.7.65.3	C.3	☑	C.3: Mandatory IF LL 1/4 "Peripheral Role" OR LL 1/5 "Central Role" is supported, otherwise Excluded.
7/35	LE Remote Connection Parameter Request Reply command	[1] 7.8.31	C.6	☑	C.6: Mandatory IF LL 9/3 "Connection Parameters Request Procedure" is supported, otherwise Excluded.
7/36	LE Remote Connection Parameter Request Negative Reply command	[1] 7.8.32	C.6	☑	C.6: Mandatory IF LL 9/3 "Connection Parameters Request Procedure" is supported, otherwise Excluded.
7/37	LE Remote Connection Parameter Request event	[1] 7.7.65.6	C.6	☑	C.6: Mandatory IF LL 9/3 "Connection Parameters Request Procedure" is supported, otherwise Excluded.
7/38	LE Enhanced Connection Complete event	[1] 7.7.65.10	C.24	☑	C.24: Mandatory IF (LL 1/4 "Peripheral Role" OR LL 1/5 "Central Role") AND (LL 9/13 "LL Privacy" OR LL 5/4 "Requesting connections using extended advertising") is supported, otherwise Optional IF LL 1/4 "Peripheral Role" OR LL 1/5 "Central Role" is supported, otherwise Excluded.
7/39	LE Read Peer Resolvable Address command	[1] 7.8.42	C.10	☑	C.10: Optional IF LL 9/13 "LL Privacy" is supported, otherwise Excluded.

Item	Capability	Reference	Support	Status	Comment
7/40	LE Read Local Resolvable Address command	[1] 7.8.43	C.10	☑	C.10: Optional IF LL 9/13 "LL Privacy" is supported, otherwise Excluded.
7/41	LE Extended Create Connection command	[5] 7.8.66	Core v.5.0 or later | C.20	☑	Core v.5.0 or later C.20: Mandatory IF LL 5/4 "Requesting connections using extended advertising" is supported, otherwise Excluded.
7/42	LE Channel Selection Algorithm event	[5] 7.7.65.20	Core v.5.0 or later | C.23	☑	Core v.5.0 or later C.23: Mandatory IF LL 9/10 "Channel Selection Algorithm #2" is supported, otherwise Excluded.
7/43	LE Set Privacy Mode command	[1] 7.8.77	Core v.5.0 or later | C.9	☑	Core v.5.0 or later C.9: Mandatory IF LL 9/13 "LL Privacy" is supported, otherwise Excluded.

Table 8:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
8/5b	Read Remote Version Information command on LE	[1] 7.1.23	C.3	☑	C.3: Mandatory IF LL 1/4 "Peripheral Role" OR LL 1/5 "Central Role" is supported, otherwise Excluded.
8/6	LE Read Remote Features command	[1] 7.8.21	C.3	☑	C.3: Mandatory IF LL 1/4 "Peripheral Role" OR LL 1/5 "Central Role" is supported, otherwise Excluded.
8/7	LE Read Remote Features Complete event	[1] 7.7.65.4	C.3	☑	C.3: Mandatory IF LL 1/4 "Peripheral Role" OR LL 1/5 "Central Role" is supported, otherwise Excluded.
8/8b	Read Remote Version Information Complete event on LE	[1] 7.7.12	C.3	☑	C.3: Mandatory IF LL 1/4 "Peripheral Role" OR LL 1/5 "Central Role" is supported, otherwise Excluded.
8/10	LE Read Remote Transmit Power Level command	[8] 7.8.118	Core v.5.2 or later | C.51	☑	Core v.5.2 or later C.51: Mandatory IF LL 9/37 "LE Power Control Request" is supported, otherwise Excluded.

Table 10:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
10/12	LE Set Data Length command	[4] 7.8.33	C.8	☑	C.8: Mandatory IF LL 9/6 "LE Data Packet Length Extension" is supported, otherwise Optional.
10/13	LE Data Length Change event	[4] 7.7.65.7	C.8	☑	C.8: Mandatory IF LL 9/6 "LE Data Packet Length Extension" is supported, otherwise Optional.
10/14	LE Read Suggested Default Data Length command	[4] 7.8.34	C.8	☑	C.8: Mandatory IF LL 9/6 "LE Data Packet Length Extension" is supported, otherwise Optional.
10/15	LE Write Suggested Default Data Length command	[4] 7.8.35	C.8	☑	C.8: Mandatory IF LL 9/6 "LE Data Packet Length Extension" is supported, otherwise Optional.
10/16	LE Read Maximum Data Length command	[4] 7.8.46	C.8	☑	C.8: Mandatory IF LL 9/6 "LE Data Packet Length Extension" is supported, otherwise Optional.
10/24	LE Periodic Advertising Sync Transfer command	[6] 7.8.89	Core v.5.1 or later | C.33	☑	Core v.5.1 or later C.33: Mandatory IF LL 9/26 "Periodic Advertising Sync Transfer – Sender" AND LL 1/2 "Scanning State" are supported, otherwise Excluded.
10/25	LE Periodic Advertising Set Info Transfer command	[6] 7.8.90	Core v.5.1 or later | C.34	☑	Core v.5.1 or later C.34: Mandatory IF LL 9/26 "Periodic Advertising Sync Transfer – Sender" AND LL 1/1 "Advertising State" are supported, otherwise Excluded.
10/26	LE Periodic Advertising Sync Transfer Received event	[6] 7.7.65.24	Core v.5.1 or later | C.35	☑	Core v.5.1 or later C.35: Mandatory IF LL 9/27 "Periodic Advertising Sync Transfer – Recipient" is supported, otherwise Excluded.
10/27	LE Set Periodic Advertising Sync Transfer Parameters command	[6] 7.8.91	Core v.5.1 or later | C.35	☑	Core v.5.1 or later C.35: Mandatory IF LL 9/27 "Periodic Advertising Sync Transfer – Recipient" is supported, otherwise Excluded.
10/28	LE Set Default Periodic Advertising Sync Transfer Parameters command	[6] 7.8.92	Core v.5.1 or later | C.35	☑	Core v.5.1 or later C.35: Mandatory IF LL 9/27 "Periodic Advertising Sync Transfer – Recipient" is supported, otherwise Excluded.
10/29	LE Modify Sleep Clock Accuracy command	[6] 7.8.94	Core v.5.1 or later | C.37	☑	Core v.5.1 or later C.37: Mandatory IF LL 9/40 "Can Change Sleep Clock Accuracy" is supported, otherwise Excluded.
10/30	LE Create CIS command	[8] 7.8.99	Core v.5.2	☑	Core v.5.2 or later C.39: Mandatory IF LL 9/31 "Connected Isochronous Stream

Item	Capability	Reference	Support	Status	Comment
			or later | C.39		Central" is supported, otherwise Excluded.
10/31	LE CIS Established event	[8] 7.7.65.25	Core v.5.2 or later | C.38	☑	Core v.5.2 or later C.38: Mandatory IF LL 9/31 "Connected Isochronous Stream Central" OR LL 9/32 "Connected Isochronous Peripheral" is supported, otherwise Excluded.
10/32	LE CIS Request event	[8] 7.7.65.26	Core v.5.2 or later | C.40	☑	Core v.5.2 or later C.40: Mandatory IF LL 9/32 "Connected Isochronous Stream Peripheral" is supported, otherwise Excluded.
10/33	LE Accept CIS Request command	[8] 7.8.101	Core v.5.2 or later | C.40	☑	Core v.5.2 or later C.40: Mandatory IF LL 9/32 "Connected Isochronous Stream Peripheral" is supported, otherwise Excluded.
10/34	LE Reject CIS Request command	[8] 7.8.102	Core v.5.2 or later | C.40	☑	Core v.5.2 or later C.40: Mandatory IF LL 9/32 "Connected Isochronous Stream Peripheral" is supported, otherwise Excluded.

Table 13:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
13/8	LE Set Host Channel Classification command	[1] 7.8.19	C.36	☑	C.36: Mandatory IF LL 9/44 "LE Channel Classification" OR LL 1/5 "Central Role" is supported, otherwise Optional IF (LL 9/41 "Extended Advertising" AND LL 1/1 "Advertising State") OR LL 9/33 "Isochronous Broadcaster" is supported, otherwise Excluded.
13/9	LE Read PHY command	[5] 7.8.47	Core v.5.0 or later | C.11	☑	Core v.5.0 or later C.11: Mandatory IF LL 9/6a "Multiple PHYs" is supported, otherwise Optional.
13/10	LE Set Default PHY command	[5] 7.8.48	Core v.5.0 or later | C.11	☑	Core v.5.0 or later C.11: Mandatory IF LL 9/6a "Multiple PHYs" is supported, otherwise Optional.
13/11	LE Set PHY command	[5] 7.8.49	Core v.5.0 or later | C.11	☑	Core v.5.0 or later C.11: Mandatory IF LL 9/6a "Multiple PHYs" is supported, otherwise Optional.
13/12	LE PHY Update Complete event	[5] 7.7.65.12	Core v.5.0 or later | C.11	☑	Core v.5.0 or later C.11: Mandatory IF LL 9/6a "Multiple PHYs" is supported, otherwise Optional.

Table 14:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
14/2	Set Event Mask command	[1] 7.3.1	M	☑	
14/12	Number of Completed Packets event	[1] 7.7.19	C.3a	☑	C.3a: Mandatory IF HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR LL 1/4 "Peripheral Role" OR LL 1/5 "Central Role" is supported, otherwise Excluded.
14/14	LE Set Event Mask command	[1] 7.8.1	M	☑	
14/17	LE Add Device To Periodic Advertiser List command	[5] 7.8.70	Core v.5.0 or later | C.21	☑	Core v.5.0 or later C.21: Mandatory IF LL 11/1 "Synchronizing to Periodic Advertising" is supported, otherwise Excluded.
14/18	LE Remove Device From Periodic Advertiser List command	[5] 7.8.71	Core v.5.0 or later | C.21	☑	Core v.5.0 or later C.21: Mandatory IF LL 11/1 "Synchronizing to Periodic Advertising" is supported, otherwise Excluded.
14/19	LE Clear Periodic Advertiser List command	[5] 7.8.72	Core v.5.0 or later | C.21	☑	Core v.5.0 or later C.21: Mandatory IF LL 11/1 "Synchronizing to Periodic Advertising" is supported, otherwise Excluded.
14/20	LE Read Periodic Advertiser List Size command	[5] 7.8.73	Core v.5.0 or later | C.21	☑	Core v.5.0 or later C.21: Mandatory IF LL 11/1 "Synchronizing to Periodic Advertising" is supported, otherwise Excluded.

Table 15:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment

Item	Capability	Reference	Support	Status	Comment
15/2c	Read Transmit Power Level command on LE	[1] 7.3.35	C.3	☑	C.3: Mandatory IF LL 1/4 "Peripheral Role" OR LL 1/5 "Central Role" is supported, otherwise Excluded.
15/4c	Read RSSI command on LE	[1] 7.5.4	C.3	☑	C.3: Mandatory IF LL 1/4 "Peripheral Role" OR LL 1/5 "Central Role" is supported, otherwise Excluded.
15/8	LE Read Channel Map command	[1] 7.8.20	C.3	☑	C.3: Mandatory IF LL 1/4 "Peripheral Role" OR LL 1/5 "Central Role" is supported, otherwise Excluded.

Table 16:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
16/32	LE Encrypt command	[1] 7.8.22	C.4	☑	C.4: Mandatory IF LL 9/1 "LE Encryption" is supported, otherwise Excluded.
16/33	LE Rand command	[1] 7.8.23	C.4	☑	C.4: Mandatory IF LL 9/1 "LE Encryption" is supported, otherwise Excluded.
16/34	LE Long Term Key Request Reply command	[1] 7.8.25	C.61	☑	C.61: Mandatory IF LL 1/4 "Peripheral Role" AND LL 9/1 "LE Encryption" is supported, otherwise Excluded.
16/35	LE Enable Encryption command	[1] 7.8.24	C.60	☑	C.60: Mandatory IF LL 1/5 "Central Role" AND LL 9/1 "LE Encryption" is supported, otherwise Excluded.
16/36	LE Long Term Key Request event	[1] 7.7.65.5	C.61	☑	C.61: Mandatory IF LL 1/4 "Peripheral Role" AND LL 9/1 "LE Encryption" is supported, otherwise Excluded.
16/37b	Encryption Change event [v1] on LE	[1] 7.7.8	C.4	☑	C.4: Mandatory IF LL 9/1 "LE Encryption" is supported, otherwise Excluded.
16/38b	Encryption Key Refresh Complete event on LE	[1] 7.7.39	C.4	☑	C.4: Mandatory IF LL 9/1 "LE Encryption" is supported, otherwise Excluded.
16/39	LE Long Term Key Request Negative Reply command	[1] 7.8.26	C.61	☑	C.61: Mandatory IF LL 1/4 "Peripheral Role" AND LL 9/1 "LE Encryption" is supported, otherwise Excluded.
16/46b	Authenticated Payload Timeout Expired event on LE	[4] 7.7.75	C.155b	☑	C.155b: Mandatory IF HCI 16/48b "Write Authenticated Payload Timeout command on LE" is supported, otherwise Optional.
16/47b	Read Authenticated Payload Timeout command on LE	[4] 7.3.93	C.155b	☑	C.155b: Mandatory IF HCI 16/48b "Write Authenticated Payload Timeout command on LE" is supported, otherwise Optional.
16/48b	Write Authenticated Payload Timeout command on LE	[4] 7.3.94	C.7	☑	C.7: Mandatory IF LL 9/1 "LE Encryption" AND LL 9/2 "LE Ping Procedure" are supported, otherwise Excluded.
16/50	LE Read Local P-256 Public Key command	[4] 7.8.36	O	☑	
16/51	LE Generate DHKey command [v1]	[4] 7.8.37	C.99	☑	C.99: Mandatory IF HCI 16/51a "LE Generate DHKey command [v2]" is supported, otherwise Optional.
16/51a	LE Generate DHKey command [v2]	[6] 7.8.37	Core v.5.0 or later	O	☑	Core v.5.0 or later
16/52	LE Read Local P-256 Public Key Complete event	[4] 7.7.65.8	O	☑	

Table 17:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
17/7	LE Receiver Test command [v1]	[1] 7.8.28	C.2	☑	C.2: Mandatory IF RFPHY 1/2 "LE Receiver" OR RFPHY 1/3 "LE Transceiver" is supported, otherwise Excluded.
17/8	LE Transmitter Test command [v1]	[1] 7.8.29	C.1	☑	C.1: Mandatory IF RFPHY 1/1 "LE Transmitter" OR RFPHY 1/3 "LE Transceiver" is supported, otherwise Excluded.
17/9	LE Test End command	[1] 7.8.30	M	☑	
17/10	LE Receiver Test command [v2]	[5] 7.8.28	Core v.5.0 or later | C.13	☑	Core v.5.0 or later C.13: Mandatory IF LL 9/6a "Multiple PHYs" OR RFPHY 1/6 "Stable Modulation Index – Receiver" is supported, otherwise Optional IF RFPHY 1/2 "LE Receiver" OR RFPHY 1/3 "LE Transceiver" is supported, otherwise Excluded.
17/11	LE Transmitter Test command [v2]	[5] 7.8.29	Core v.5.0 or later | C.12	☑	Core v.5.0 or later C.12: Mandatory IF LL 9/6a "Multiple PHYs" OR RFPHY 1/5 "Stable Modulation Index – Transmitter" is supported, otherwise Optional IF RFPHY 1/1 "LE Transmitter" OR RF PHY 1/3 "LE Transceiver" is supported, otherwise Excluded.
17/12	LE Receiver Test command [v3]	[6] 7.8.28	Core v.5.1 or later |	☑	Core v.5.1 or later C.30: Mandatory IF LL 9/14 "Connection CTE Request" OR LL 9/17 "Connectionless CTE Receiver" is supported, otherwise Optional IF RFPHY 1/2 "LE Receiver" OR RFPHY 1/3 "LE Transceiver" is supported, otherwise Excluded.

			C.30			
17/13	LE Transmitter Test command [v3]	[6] 7.8.29	Core v.5.1 or later | C.29	☑	Core v.5.1 or later C.29: Mandatory IF LL 9/15 "Connection CTE Response" OR LL 9/16 "Connectionless CTE Transmitter" is supported, otherwise Optional IF RFPHY 1/1 "LE Transmitter" OR RFPHY 1/3 "LE Transceiver" is supported, otherwise Excluded.
17/14	LE ISO Transmit Test command	[8] 7.8.111	Core v.5.2 or later | C.45	☑	Core v.5.2 or later C.45: Mandatory IF LL 9/31 "Connected Isochronous Stream Central" OR LL 9/32 "Connected Isochronous Stream Peripheral" OR LL 9/33 "Isochronous Broadcaster" is supported, otherwise Excluded.
17/15	LE ISO Receive Test command	[8] 7.8.112	Core v.5.2 or later | C.46	☑	Core v.5.2 or later C.46: Mandatory IF LL 9/31 "Connected Isochronous Stream Central" OR LL 9/32 "Connected Isochronous Stream Peripheral" OR LL 9/34 "Synchronized Receiver" is supported, otherwise Excluded.
17/16	LE ISO Read Test Counters command	[8] 7.8.113	Core v.5.2 or later | C.46	☑	Core v.5.2 or later C.46: Mandatory IF LL 9/31 "Connected Isochronous Stream Central" OR LL 9/32 "Connected Isochronous Stream Peripheral" OR LL 9/34 "Synchronized Receiver" is supported, otherwise Excluded.
17/17	LE ISO Test End command	[8] 7.8.114	Core v.5.2 or later | C.47	☑	Core v.5.2 or later C.47: Mandatory IF LL 9/31 "Connected Isochronous Stream Central" OR LL 9/32 "Connected Isochronous Stream Peripheral" OR LL 9/33 "Isochronous Broadcaster" OR LL 9/34 "Synchronized Receiver" is supported, otherwise Excluded.
17/18	LE Transmitter Test command [v4]	[8] 7.8.29	Core v.5.2 or later | C.53	☑	Core v.5.2 or later C.53: Mandatory IF LL 9/37 "LE Power Control Request" is supported, otherwise Optional IF RFPHY 1/1 "LE Transmitter" OR RFPHY 1/3 "LE Transceiver" is supported, otherwise Excluded.

Table 20:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
20/1	LE Create BIG command	[8] 7.8.103	Core v.5.2 or later | C.41	☑	Core v.5.2 or later C.41: Mandatory IF LL 9/33 "Isochronous Broadcaster" is supported, otherwise Excluded.
20/2	LE Create BIG Test command	[8] 7.8.104	Core v.5.2 or later | C.41	☑	Core v.5.2 or later C.41: Mandatory IF LL 9/33 "Isochronous Broadcaster" is supported, otherwise Excluded.
20/3	LE Create BIG Complete event	[8] 7.7.65.27	Core v.5.2 or later | C.41	☑	Core v.5.2 or later C.41: Mandatory IF LL 9/33 "Isochronous Broadcaster" is supported, otherwise Excluded.
20/5	LE Set Host Feature command	[8] 7.8.115	Core v.5.2 or later | C.49	☑	Core v.5.2 or later C.49: Mandatory IF LL 9/31 "Connected Isochronous Stream Central" OR LL 9/32 "Connected Isochronous Stream Peripheral" OR LL 9/45 "Connection Subrating" is supported, otherwise Optional.

Advanced Audio Distribution Profile

Table 1: Role Requirements

Item	Capability	Reference	Support	Status	Comment
1/2	Sink	[1] 2.2	C.1	☑	C.1: Mandatory to support at least one of A2DP 1/1 "Source" OR A2DP 1/2 "Sink".

Table 2: A2DP SRC Features

Prerequisite: A2DP 1/1 "Source"

Item	Capability	Reference	Support	Status	Comment

Table 2a: A2DP SRC – Major Versions (X.Y)

Prerequisite: A2DP 1/1 "Source"

Item	Capability	Reference	Support	Status	Comment

Table 2b: A2DP SRC – Minor Versions (X.Y.Z)

Prerequisite: A2DP 1/1 "Source"

Item	Capability	Reference	Support	Status	Comment

Table 8: SDP Attributes (Source)

Prerequisite: A2DP 1/1 "Source"

Item	Capability	Reference	Support	Status	Comment

Table 9: GAVDP Roles (Source)

Prerequisite: A2DP 1/1 "Source"

Item	Capability	Reference	Support	Status	Comment

Table 4: A2DP SNK Features

Prerequisite: A2DP 1/2 "Sink"

Item	Capability	Reference	Support	Status	Comment
4/1	Initiate Connection Establishment	[4] 4.1.1	O	☑	
4/2	Accept Connection Establishment	[4] 4.1.1	M	☑	
4/3	Initiate Start Streaming	[4] 4.1.2	O	☑	
4/4	Accept Start Streaming	[4] 4.1.2	M	☑	
4/5	Receive Audio Stream	[1] 3.2.1	M	☑	
4/6	Initiate Connection Release	[4] 4.1.3	O	☑	
4/7	Accept Connection Release	[4] 4.1.3	M	☑	
4/8	Initiate Suspend	[4] 4.1.4	O	☑	
4/9	Accept Suspend	[4] 4.1.4	O	☑	
4/10	SBC Decoder	[1] 4.3	M	☑	
4/13	SBC Configurations in 44.1 kHz sampling frequency	[1] 4.3.2.1	M	☑	
4/14	SBC Configurations in 48 kHz sampling frequency	[1] 4.3.2.1	M	☑	

Table 7a: A2DP SNK – Major Versions (X.Y)

Prerequisite: A2DP 1/2 "Sink"

Item	Capability	Reference	Support	Status	Comment
7a/2	A2DP 1.2	A2DP 1.2	C.1	☑	C.1: Mandatory to support one and only one of A2DP 7a/1 "A2DP 1.0" OR A2DP 7a/2 "A2DP 1.2" OR A2DP 7a/3 "A2DP 1.3".

Table 7b: A2DP SNK – Minor Versions (X.Y.Z)

Prerequisite: A2DP 1/2 "Sink"

Item	Capability	Reference	Support	Status	Comment

Table 12: SDP Attributes (Sink)

Prerequisite: A2DP 1/2 "Sink"

Item	Capability	Reference	Support	Status	Comment
12/2	ProtocolDescriptorList	[1] 5.3	M	☑	
12/3	BluetoothProfileDescriptorList	[1] 5.3	M	☑	

Table 13: GAVDP Roles (Sink)

Prerequisite: A2DP 1/2 "Sink"

Item	Capability	Reference	Support	Status	Comment
13/2	Acceptor	[1] 5.1.1.1	M	☑	

Table 3: Supported Codecs in SRC

Prerequisite: A2DP 1/1 "Source"

Item	Capability	Reference	Support	Status	Comment

Table 3a: Supported Codec Features in SRC

Prerequisite: A2DP 3/1 "SBC encoder"

Item	Capability	Reference	Support	Status	Comment

Table 5: Supported Codecs in SNK

Prerequisite: A2DP 1/2 "Sink"

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

Table 5a: Supported Codec Features in SNK

Prerequisite: A2DP 5/1 "SBC Decoder"

Item	Capability	Reference	Support	Status	Comment
5a/1	Channel Mode - Mono	[1] 4.3.2.2	M	☑	
5a/2	Channel Mode – Dual Channel	[1] 4.3.2.2	M	☑	
5a/3	Channel Mode – Stereo	[1] 4.3.2.2	M	☑	
5a/4	Channel Mode – Joint Stereo	[1] 4.3.2.2	M	☑	
5a/5	Block Length 4	[1] 4.3.2.3	M	☑	
5a/6	Block Length 8	[1] 4.3.2.3	M	☑	
5a/7	Block Length 12	[1] 4.3.2.3	M	☑	
5a/8	Block Length 16	[1] 4.3.2.3	M	☑	
5a/9	Subbands - 4	[1] 4.3.2.4	M	☑	
5a/10	Subbands - 8	[1] 4.3.2.4	M	☑	
5a/11	Allocation - SNR	[1] 4.3.2.5	M	☑	
5a/12	Allocation - Loudness	[1] 4.3.2.5	M	☑	

Attribute Protocol

Table 1: Role

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

Table 2: Transport Requirements

Item	Capability	Reference	Support	Status	Comment
2/2	Attribute Protocol Supported over LE	[1] ATT 1.3	C.2	☑	C.2: Mandatory IF (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" is supported), otherwise Excluded.

Table 3: Attribute Protocol Client Messages

Prerequisite: ATT 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: 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: Mandatory IF ATT 3/2 "Exchange MTU Request" is supported, otherwise Excluded.
3/4	Find Information Request	[1] ATT, 3.4.3.1	C.13	☑	C.13: Mandatory IF GATT 3/7 "Discover All Characteristic Descriptors" is supported, otherwise Optional.
3/5	Find Information Response	[1] ATT, 3.4.3.2	C.9	☑	C.9: Mandatory IF ATT 3/4 "Find Information Request" is supported, otherwise Excluded.
3/6	Find by Type Value Request	[1] ATT, 3.4.4.3	C.12	☑	C.12: Mandatory IF GATT 3/3 "Discover Primary Services by Service UUID" is supported, otherwise Optional.

3/7	Find by Type Value Response	[1] ATT, 3.4.4.4	C.2	☑	C.2: Mandatory IF ATT 3/6 "Find by Type Value Request" is supported, otherwise Excluded.
3/8	Read by Type Request	[1] ATT, 3.4.4.1	C.15	☑	C.15: Mandatory IF GATT 3/9 "Read Using Characteristic UUID" is supported, otherwise Optional.
3/9	Read by Type Response	[1] ATT, 3.4.4.2	C.3	☑	C.3: Mandatory IF ATT 3/8 "Read by Type Request" is supported, otherwise Excluded.
3/10	Read Request	[1] ATT, 3.4.4.3	C.14	☑	C.14: Mandatory IF GATT 3/8 "Read Characteristic Value" OR GATT 3/19 "Read Characteristic Descriptors" is supported, otherwise Optional.
3/11	Read Response	[1] ATT, 3.4.4.4	C.10	☑	C.10: Mandatory IF ATT 3/10 "Read Request" is supported, otherwise Excluded.
3/12	Read Blob Request	[1] ATT, 3.4.4.5	C.16	☑	C.16: Mandatory IF GATT 3/10 "Read Long Characteristic Values" OR GATT 3/20 "Read Long Characteristic Descriptors" is supported, otherwise Optional.
3/13	Read Blob Response	[1] ATT, 3.4.4.6	C.4	☑	C.4: Mandatory IF ATT 3/12 "Read Blob Request" is supported, otherwise Excluded.
3/14	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: 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 "Enhanced ATT bearer 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 ATT 3/27 "Handle-Value Indication" is supported, otherwise Excluded.
3/29	Client Timeout	[1] ATT, 3.3.3	C.24	☑	C.24: Mandatory IF ATT 3/27 "Handle-Value Indication" is supported, otherwise Excluded.

Table 4: Attribute Protocol Server Messages

Prerequisite: ATT 1/2 "Attribute Protocol Server"

Item	Capability	Reference	Support	Status	Comment
4/1	Attribute Error Response	[1] ATT, 3.4.1.1	M	☑	
4/2	Exchange MTU Request	[1] ATT, 3.4.2.1	C.18	☑	C.18: Mandatory IF GATT 4/1 "Exchange MTU" is supported, otherwise Optional.
4/3	Exchange MTU Response	[1] ATT, 3.4.2.2	C.19	☑	C.19: Mandatory IF ATT 4/2 "Exchange MTU Request" is supported, otherwise Excluded.
4/4	Find Information	[1] ATT, 3.4.3.1	M	☑	

Item	Capability	Reference	Support	Status	Comment
	Request				
4/5	Find Information Response	[1] ATT, 3.4.3.2	M	☑	
4/6	Find by Type Value Request	[1] ATT, 3.4.4.3	M	☑	
4/7	Find by Type Value Response	[1] ATT, 3.4.4.4	M	☑	
4/8	Read by Type Request	[1] ATT, 3.4.4.1	M	☑	
4/9	Read by Type Response	[1] ATT, 3.4.4.2	M	☑	
4/10	Read Request	[1] ATT, 3.4.4.3	M	☑	
4/11	Read Response	[1] ATT, 3.4.4.4	M	☑	
4/12	Read Blob Request	[1] ATT, 3.4.4.5	C.6	☑	C.6: Mandatory IF GATT 4/10 "Read Long Characteristic Values" OR ATT 2/3 "Enhanced ATT bearer Attribute Protocol Supported (L2CAP fixed EATT PSM supported)" is supported, otherwise Optional.
4/13	Read Blob Response	[1] ATT, 3.4.4.6	C.1	☑	C.1: Mandatory IF ATT 4/12 "Read Blob Request" is supported, otherwise Excluded.
4/16	Read by Group Type Request	[1] ATT, 3.4.4.9	M	☑	
4/17	Read by Group Type Response	[1] ATT, 3.4.4.10	M	☑	
4/18	Write Request	[1] 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 "Enhanced ATT bearer Attribute Protocol Supported (L2CAP fixed EATT PSM supported)" is supported, otherwise Optional.
4/19	Write Response	[1] ATT, 3.4.5.2	C.3	☑	C.3: Mandatory IF ATT 4/18 "Write Request" is supported, otherwise Excluded.
4/20	Write Command	[1] ATT, 3.4.5.3	C.8	☑	C.8: Mandatory IF GATT 4/12 "Write Without Response" OR ATT 2/3 "Enhanced ATT bearer Attribute Protocol Supported (L2CAP fixed EATT PSM supported)" is supported, otherwise Optional.
4/22	Prepare Write Request	[1] 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 "Enhanced ATT bearer Attribute Protocol Supported (L2CAP fixed EATT PSM supported)" is supported, otherwise Optional.
4/23	Prepare Write Response	[1] ATT, 3.4.6.2	C.4	☑	C.4: Mandatory IF ATT 4/22 "Prepare Write Request" is supported, otherwise Excluded.
4/24	Execute Write Request	[1] ATT, 3.4.6.3	C.4	☑	C.4: Mandatory IF ATT 4/22 "Prepare Write Request" is supported, otherwise Excluded.
4/25	Execute Write Response	[1] ATT, 3.4.6.4	C.4	☑	C.4: Mandatory IF ATT 4/22 "Prepare Write Request" is supported, otherwise Excluded.
4/26	Handle Value Notification	[1] ATT, 3.4.7.1	C.12	☑	C.12: Mandatory IF GATT 4/17 "Notifications" OR ATT 2/3 "Enhanced ATT bearer Attribute Protocol Supported (L2CAP fixed EATT PSM supported)" 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 IF ATT 2/2 "Attribute Protocol Supported over LE" is supported, otherwise Excluded.
5/3	LE Security Mode 2	[2] GAP 10.2.2	C.2	☑	C.2: Optional IF ATT 2/2 "Attribute Protocol Supported over LE" is supported, otherwise Excluded.

Audio/Video Control Transport Protocol

Table 0: Major Versions (X.Y)

Item	Capability	Reference	Support	Status	Comment
0/4	AVCTP 1.4	AVCTP 1.4	C.1	☑	C.1: Mandatory to support one and only one of AVCTP 0/1 "AVCTP 1.0" OR AVCTP 0/2 "AVCTP 1.2" OR AVCTP 0/4 "AVCTP 1.4".

Table 1: Role Requirements

Item	Capability	Reference	Support	Status	Comment
1/1	Controller	[1] 3.1	C.1	☑	C.1: Mandatory to support at least one of AVCTP 1/1 "Controller" OR AVCTP 1/2 "Target".
1/2	Target	[1] 3.1	C.1	☑	C.1: Mandatory to support at least one of AVCTP 1/1 "Controller" OR AVCTP 1/2 "Target".

Table 2: Controller Features

Prerequisite: AVCTP 1/1 "Controller"

Item	Capability	Reference	Support	Status	Comment
2/2	Transaction label management	[1] 4.2, 6.1.1, 6.1.2	M	☑	
2/3	Packet type field management	[1] 4.3, 6.1.1, 6.1.2	M	☑	
2/4	Message type field management	[1] 4.5, 6.1.1, 6.1.2	M	☑	
2/5	PID field management	[1] 4.4, 6.1.1, 6.1.2	M	☑	
2/6	IPID field management	[1] 6.1.1, 6.1.2	M	☑	
2/7	Message information management	[1] 6.1, 6.2	M	☑	

Table 3: Target Features

Prerequisite: AVCTP 1/2 "Target"

Item	Capability	Reference	Support	Status	Comment
3/2	Transaction label management	[1] 4.2, 6.1.1, 6.1.2	M	☑	
3/3	Packet type field management	[1] 4.3, 6.1.1, 6.1.2	M	☑	
3/4	Message type field management	[1] 4.5, 6.1.1, 6.1.2	M	☑	
3/5	PID field management	[1] 4.4, 6.1.1, 6.1.2	M	☑	
3/6	IPID field management	[1] 6.1.1, 6.1.2	M	☑	
3/7	Message information management	[1] 6.1, 6.2	M	☑	

Audio Video Distribution Transport Protocol

Table 1: Role Requirements

Item	Capability	Reference	Support	Status	Comment
1/2	Sink	[1] 4.2	C.1	☑	C.1: Mandatory to support at least one of AVDTP 1/1 "Source" OR AVDTP 1/2 "Sink".
1/3	Initiator	[1] 4.3	C.2	☑	C.2: Mandatory to support at least one of AVDTP 1/3 "Initiator" OR AVDTP 1/4 "Acceptor". Note: It is within the scope of profiles using the AVDTP specification to mandate Initiator/Acceptor capabilities.
1/4	Acceptor	[1] 4.3	C.2	☑	C.2: Mandatory to support at least one of AVDTP 1/3 "Initiator" OR AVDTP 1/4 "Acceptor". Note: It is within the scope of profiles using the AVDTP specification to mandate Initiator/Acceptor capabilities.

Table 2: Signaling Message Format (Initiator, Source)

Prerequisite: AVDTP 1/3 "Initiator" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Support	Status	Comment

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

Prerequisite: AVDTP 1/3 "Initiator" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Support	Status	Comment

Table 4: Stream Discovery and Configuration (Initiator, Source)

Prerequisite: AVDTP 1/3 "Initiator" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Support	Status	Comment

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

Prerequisite: AVDTP 1/3 "Initiator" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Support	Status	Comment

Table 6: Security Signaling (Initiator, Source)

Prerequisite: AVDTP 1/3 "Initiator" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Support	Status	Comment

Table 7: Message Fragmentation (Initiator, Source)

Prerequisite: AVDTP 1/3 "Initiator" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Support	Status	Comment

Table 8: Signaling Message Format (Acceptor, Source)

Prerequisite: AVDTP 1/4 "Acceptor" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Support	Status	Comment

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

Prerequisite: AVDTP 1/4 "Acceptor" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Support	Status	Comment

Table 10: Stream Discovery and Configuration (Acceptor, Source)

Prerequisite: AVDTP 1/4 "Acceptor" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Support	Status	Comment

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

Prerequisite: AVDTP 1/4 "Acceptor" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Support	Status	Comment

Table 12: Security Signaling (Acceptor, Source)

Prerequisite: AVDTP 1/4 "Acceptor" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Support	Status	Comment

Table 13: Message Fragmentation (Acceptor, Source)

Prerequisite: AVDTP 1/4 "Acceptor" AND AVDTP 1/1 "Source"

Item	Capability	Reference	Support	Status	Comment

Table 14: Source Capabilities

Prerequisite: AVDTP 1/1 "Source"

Item	Capability	Reference	Support	Status	Comment

Table 14a: AVDTP Source - Major Versions (X.Y)

Prerequisite: AVDTP 1/1 "Source"

Item	Capability	Reference	Support	Status	Comment

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

Prerequisite: AVDTP 1/3 "Initiator" AND AVDTP 1/2 "Sink"

Item	Capability	Reference	Support	Status	Comment
2b/1	Transaction Label	[1] 8.4.1	M	☑	
2b/2	Packet type	[1] 8.4.2	M	☑	
2b/3	Message type	[1] 8.4.3	M	☑	

	2b/4	Signal identifier	[1] 8.4.4	M	☑	

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

Prerequisite: AVDTP 1/3 "Initiator" AND AVDTP 1/2 "Sink"

Item	Capability	Reference	Support	Status	Comment

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

Prerequisite: AVDTP 1/3 "Initiator" AND AVDTP 1/2 "Sink"

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

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

Prerequisite: AVDTP 1/3 "Initiator" AND AVDTP 1/2 "Sink"

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

Table 6b: Security Signaling (Initiator, Sink)

Prerequisite: AVDTP 1/3 "Initiator" AND AVDTP 1/2 "Sink"

Item	Capability	Reference	Support	Status	Comment

Table 7b: Message Fragmentation (Initiator, Sink)

Prerequisite: AVDTP 1/3 "Initiator" AND AVDTP 1/2 "Sink"

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

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

Prerequisite: AVDTP 1/4 "Acceptor" AND AVDTP 1/2 "Sink"

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

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

Prerequisite: AVDTP 1/4 "Acceptor" AND AVDTP 1/2 "Sink"

Item	Capability	Reference	Support	Status	Comment

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

Prerequisite: AVDTP 1/4 "Acceptor" AND AVDTP 1/2 "Sink"

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

response   Excluded.

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

Prerequisite: AVDTP 1/4 "Acceptor" AND AVDTP 1/2 "Sink"

Item	Capability	Reference	Support	Status	Comment
11b/1	Open stream response	[1] [2] 6.4, 6.10, 8.11, 13.1, [3] 6.4, 6.11, 8.12, 13.1	O	☑	
11b/2	Start stream response	[1] [2] 6.4, 6.11, 8.12, 13.1, [3] 6.4, 6.12, 8.13, 13.1	O	☑	
11b/3	Close stream response	[1] [2] 6.4, 6.12, 8.13, 13.1, [3] 6.4, 6.13, 8.14, 13.1	O	☑	
11b/4	Suspend response	[1] [2] 6.4, 6.13, 8.14, 13.1, [3] 6.4, 6.14, 8.15, 13.1	O	☑	

Table 12b: Security Signaling (Acceptor, Sink)

Prerequisite: AVDTP 1/4 "Acceptor" AND AVDTP 1/2 "Sink"

Item	Capability	Reference	Support	Status	Comment

Table 13b: Message Fragmentation (Acceptor, Sink)

Prerequisite: AVDTP 1/4 "Acceptor" AND AVDTP 1/2 "Sink"

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

Table 15: Sink Capabilities

Prerequisite: AVDTP 1/2 "Sink"

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

Table 15a: AVDTP Sink – Major Versions (X.Y)

Prerequisite: AVDTP 1/2 "Sink"

Item	Capability	Reference	Support	Status	Comment
15a/3	AVDTP 1.3	AVDTP 1.3	C.1	☑	C.1: Mandatory to support one and only one of AVDTP 15a/1 "AVDTP 1.0" OR AVDTP 15a/2 "AVDTP 1.2" OR AVDTP 15a/3 "AVDTP 1.3".

Table 16: Message Error Handling Capabilities

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

Table 17: Upper Test Interface

Item	Capability	Reference	Support	Status	Comment

Table 18: L2CAP Capabilities

Item	Capability	Reference	Support	Status	Comment

A/V Remote Control Profile

Table 0a: Controller Major Versions and Later

Prerequisite: AVRCP 1/1 "Controller"

Item	Capability	Reference	Support	Status	Comment
0a/1	AVRCP v1.0 or later Controller	[1]	M	☑	
0a/2	AVRCP v1.3 or later	[2]	C.1	☑	C.1: Excluded IF AVRCP 2b/1 "AVRCP v1.0", otherwise Mandatory.

Item	Capability	Reference	Support	Status	Comment
	Controller				
0a/3	AVRCP v1.5 or later Controller	[3]	C.2	☑	C.2: Excluded IF AVRCP 2b/1 "AVRCP v1.0" OR AVRCP 2b/2 "AVRCP v1.3", otherwise Mandatory.

Table 0b: Target Major Versions and Later

Prerequisite: AVRCP 1/2 "Target"

Item	Capability	Reference	Support	Status	Comment
0b/1	AVRCP v1.0 or later Target	[1]	M	☑	
0b/2	AVRCP v1.3 or later Target	[2]	C.1	☑	C.1: Excluded IF AVRCP 7b/1 "AVRCP v1.0", otherwise Mandatory.
0b/3	AVRCP v1.5 or later Target	[3]	C.2	☑	C.2: Excluded IF AVRCP 7b/1 "AVRCP v1.0" OR AVRCP 7b/2 "AVRCP v1.3", otherwise Mandatory.

Table 1: Role Requirements

Item	Capability	Reference	Support	Status	Comment
1/1	Controller	[1] 2.2	C.1	☑	C.1: Mandatory to support at least one of AVRCP 1/1 "Controller" OR AVRCP 1/2 "Target".
1/2	Target	[1] 2.2	C.1	☑	C.1: Mandatory to support at least one of AVRCP 1/1 "Controller" OR AVRCP 1/2 "Target".

Table 2: Controller Features

Prerequisite: AVRCP 1/1 "Controller"

Item	Capability	Reference	Support	Status	Comment
2/1	Initiating connection establishment for control	[1] 4.1.1	M	☑	
2/2	Accepting connection establishment for control initiated by TG	[1] 4.1.1	M	☑	
2/3	Initiating connection release for control	[1] 4.1.2	M	☑	
2/4	Accepting connection release for control initiated by TG	[1] 4.1.2	M	☑	
2/7	Sending PASS THROUGH command in category 1	[1] 4.1.3	C.1	☑	C.1: Mandatory to support at least one of AVRCP 2/7 "Sending PASS THROUGH command in category 1" OR AVRCP 2/8 "Sending PASS THROUGH command in category 2" OR AVRCP 2/9 "Sending PASS THROUGH command in category 3" OR AVRCP 2/10 "Sending PASS THROUGH command in category 4".
2/22	Register Notification	[2] 5.4.2, [3] 6.7.2	C.11	☑	C.11: Mandatory IF AVRCP 2/20 "Get Element Attributes" OR AVRCP 2/49 "Absolute Volume", otherwise Optional.
2/52	Discoverable Mode	[3] 12.1	M	☑	

Table 2b: Controller - Major Versions (X.Y)

Prerequisite: AVRCP 1/1 "Controller"

Item	Capability	Reference	Support	Status	Comment
2b/4	AVRCP v1.5	AVRCP v1.5	C.1	☑	C.1: Mandatory to support one and only one of AVRCP 2b/1 "AVRCP v1.0" OR AVRCP 2b/2 "AVRCP v1.3" OR AVRCP 2b/4 "AVRCP v1.5" OR AVRCP 2b/5 "AVRCP v1.6".

Table 2c: Controller - Minor Versions (X.Y.Z)

Prerequisite: AVRCP 1/1 "Controller"

Item	Capability	Reference	Support	Status	Comment

Table 3: operation_id of category 1 for CT

Prerequisite: AVRCP 2/7 "Sending PASS THROUGH command in category 1"

Item	Capability	Reference	Support	Status	Comment
3/19	play	-	C.1	☑	C.1: Mandatory to support at least one item.
3/21	pause	-	C.1	☑	C.1: Mandatory to support at least one item.

Table 4: operation_id of category 2 for CT

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

Item	Capability	Reference	Support	Status	Comment

Table 5: operation_id of category 3 for CT

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

Item	Capability	Reference	Support	Status	Comment

Table 6: operation_id of category 4 for CT

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

Item	Capability	Reference	Support	Status	Comment

Table 7: Target Features

Prerequisite: AVRCP 1/2 "Target"

Item	Capability	Reference	Support	Status	Comment
7/2	Accepting connection establishment for control initiated by CT	[1] 4.1.1	M	☑	
7/3	Initiating connection release for control	[1] 4.1.2	M	☑	
7/4	Accepting connection release for control initiated by CT	[1] 4.1.2	M	☑	
7/5	Receiving UNIT INFO command	[1] 4.1.3	M	☑	
7/6	Receiving SUBUNIT INFO command	[1] 4.1.3	M	☑	
7/8	Receiving PASS THROUGH command in category 2	[1] 4.1.3	C.1	☑	C.1: Mandatory to support at least one of AVRCP 7/7 "Receiving PASS THROUGH command in category 1" OR AVRCP 7/8 "Receiving PASS THROUGH command in category 2" OR AVRCP 7/9 "Receiving PASS THROUGH command in category 3" OR AVRCP 7/10 "Receiving PASS THROUGH command in category 4".
7/22	Register Notification Response	[2] 5.4.2, [3] 6.7.2	C.12	☑	C.12: Mandatory IF AVRCP 7/7 "Receiving PASS THROUGH command in category 1" OR (AVRCP 7/8 "Receiving PASS THROUGH command in category 2" AND AVRCP 7/60 "Absolute Volume") OR AVRCP 7/9 "Receiving PASS THROUGH command in category 3", otherwise Optional.
7/60	Absolute Volume	[3] 6.13	C.5	☑	C.5: Mandatory IF AVRCP 7/8 "Receiving PASS THROUGH command in category 2", otherwise Excluded.
7/61	SetAbsoluteVolume	[3] 6.13.2	C.5	☑	C.5: Mandatory IF AVRCP 7/8 "Receiving PASS THROUGH command in category 2", otherwise Excluded.
7/62	NotifyVolumeChange	[3] 6.13.3	C.5	☑	C.5: Mandatory IF AVRCP 7/8 "Receiving PASS THROUGH command in category 2", otherwise Excluded.
7/65	Discoverable Mode	[3] 12.1	M	☑	

Table 7b: Target - Major Versions (X.Y)

Prerequisite: AVRCP 1/2 "Target"

Item	Capability	Reference	Support	Status	Comment
7b/4	AVRCP v1.5	AVRCP v1.5	C.1	☑	C.1: Mandatory to support one and only one of AVRCP 7b/1 "AVRCP v1.0" OR AVRCP 7b/2 "AVRCP v1.3" OR AVRCP 7b/4 "AVRCP v1.5" OR AVRCP 7b/5 "AVRCP v1.6".

Table 7c: Target - Minor Versions (X.Y.Z)

Prerequisite: AVRCP 1/2 "Target"

Item	Capability	Reference	Support	Status	Comment

Table 8: operation_id of category 1 for TG

Prerequisite: AVRCP 7/7 "Receiving PASS THROUGH command in category 1"

Item	Capability	Reference	Support	Status	Comment

Table 9: operation_id of category 2 for TG

Prerequisite: AVRCP 7/8 "Receiving PASS THROUGH command in category 2"

Item	Capability	Reference	Support	Status	Comment
9/19	Volume up	-	M	☑	
9/20	Volume down	-	M	☑	

Table 10: operation_id of category 3 for TG

Prerequisite: AVRCP 7/9 "Receiving PASS THROUGH command in category 3"

Item	Capability	Reference	Support	Status	Comment

Table 11: operation_id of category 4 for TG

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

Item	Capability	Reference	Support	Status	Comment

Table 12: Requirements towards the Generic Access Profile (CT)

Prerequisite: AVRCP 1/1 "Controller"

Item	Capability	Reference	Support	Status	Comment
12/1	General discoverable mode	[1] 9.1, [2] 10.1, [3] 12.1	M	☑	

Table 13: Requirements towards the Generic Access Profile (TG)

Prerequisite: AVRCP 1/2 "Target"

Item	Capability	Reference	Support	Status	Comment
13/1	General discoverable mode	[1] 9.1, [2] 10.1, [3] 12.1	M	☑	

Table 14: OBEX Operations (AVRCP CT, OBEX Client)

Prerequisite: AVRCP 1/1 "Controller"

Item	Capability	Reference	Support	Status	Comment

Table 15: OBEX Operations (AVRCP TG, OBEX Server)

Prerequisite: AVRCP 1/2 "Target"

Item	Capability	Reference	Support	Status	Comment

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 SUM ICS 22/1 "EDR for asynchronous transports (single slot)" OR SUM ICS 22/2 "EDR for asynchronous transports (multi-slot)" OR SUM ICS 22/4 "EDR for synchronous transports (Core 3.0 or later)", otherwise Optional.
1a/3	Enhanced Data Rate, 3 Mbps payload data rate	[2] 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)", otherwise Optional IF BB 1a/2 "Enhanced Data Rate, 2 Mbps payload data rate", 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 SUM ICS 22/1 "EDR for asynchronous transports (single slot)" OR SUM ICS 22/2 "EDR for asynchronous transports (multi-slot)", otherwise Excluded.
2/5	Enhanced Data Rate eSCO links	[1] 6.5.3	C.2	☑	C.2: Mandatory IF SUM ICS 22/4 "EDR for synchronous transports (Core 3.0 or later)", otherwise Excluded.
2/7	ACL with AES-CCM and MIC	[4] 8.3.2	C.4	☑	C.4: Mandatory IF LMP 2/26 "Secure Connections (Controller Support)", otherwise Excluded.
2/8	eSCO with AES-CCM	[4] 8.3.1	C.5	☑	C.5: Mandatory IF LMP 2/26 "Secure Connections (Controller Support)" AND BB 2/3 "eSCO link", otherwise Excluded.

Table 3: SCO and eSCO Link Support

Item	Capability	Reference	Support	Status	Comment
3/1	SCO links to same Peripheral	[1] 4.3	C.1	☑	C.1: Mandatory to support at least one of BB 3/1 "SCO links to same Peripheral" OR BB 3/3 "SCO links from same Central" IF BB 2/2 "SCO link", otherwise Excluded.
3/3	SCO links from same Central	[1] 4.3	C.1	☑	C.1: Mandatory to support at least one of BB 3/1 "SCO links to same Peripheral" OR BB 3/3 "SCO links from same Central" IF BB 2/2 "SCO link", otherwise Excluded.
3/5	eSCO links to same Peripheral	[1] 4.2	C.2	☑	C.2: Mandatory to support at least one of BB 3/5 "eSCO links to same Peripheral" OR BB 3/7 "eSCO links from same Central" IF BB 2/3 "eSCO link", otherwise Excluded.
3/7	eSCO links from same Central	[1] 4.2	C.2	☑	C.2: Mandatory to support at least one of BB 3/5 "eSCO links to same Peripheral" OR BB 3/7 "eSCO links from same Central" IF BB 2/3 "eSCO link", otherwise Excluded.

Table 3a: Profile Broadcast Data Link Support

Prerequisite: BB 2/6 "Profile 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", 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	☑	

Table 5a: Enhanced Data Rate ACL Packet Types

Prerequisite: BB 2/4 "Enhanced Data 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)"), otherwise Optional IF BB 1a/2 "Enhanced Data Rate, 2 Mbps payload data rate", 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)", otherwise Optional IF BB 1a/2 "Enhanced Data Rate, 2 Mbps payload data rate", 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)", otherwise Optional IF BB 1a/2 "Enhanced Data Rate, 2 Mbps payload data rate", 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)", otherwise Optional IF BB 1a/3 "Enhanced Data Rate, 3 Mbps payload data rate", 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 "SCO link", 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 "SCO link", 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 "SCO link", otherwise Excluded.
6/5	EV3 packet type	[1] 6.5.3, [1] 6.5.3.1	C.3	☑	C.3: Mandatory IF BB 2/3 "eSCO link", otherwise Excluded.
6/6	EV4 packet type	[1] 6.5.3, [1] 6.5.3.2	C.4	☑	C.4: Optional IF BB 2/3 "eSCO link", otherwise Excluded.
6/7	EV5 packet type	[1] 6.5.3, [1] 6.5.3.3	C.4	☑	C.4: Optional IF BB 2/3 "eSCO link", otherwise Excluded.

Table 6a: Enhanced Data Rate eSCO Packet Types

Prerequisite: BB 2/5 "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", 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	☑	

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: Mandatory to support at least one of BB 9/1 "paging mode R0" OR BB 9/2 "paging mode R1" OR BB 9/3 "paging mode R2".

Table 9b: Paging Train Repetition

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

Table 9c: Synchronization Modes Support

Prerequisite: BB 2/6 "Profile 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	☑	
10/6	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 "General discoverable mode", otherwise Optional.

Table 11: Piconet Capabilities

Item	Capability	Reference	Support	Status	Comment
11/1	Broadcast Messages	[1] 7.6.5	M	☑	
11/2	Point-to-multipoint Connections	[1] 1	M	☑	

Table 12: Scatternet Capabilities

Item	Capability	Reference	Support	Status	Comment

Table 13: Synchronous Coding Schemes

Prerequisite: BB 2/2 "SCO link" OR BB 2/3 "eSCO link"

Item	Capability	Reference	Support	Status	Comment
13/3	CVSD	[1] 9.2	C.1	☑	C.1: Mandatory to support at least one of BB 13/1 "A-law" OR BB 13/2 "mu-law" OR BB 13/3 "CVSD" OR BB 13/4 "Transparent Synchronous Data".

Table 14: Erroneous Data Reporting

Item	Capability	Reference	Support	Status	Comment

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", 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", 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 | [2] 1.1 | C.3 | ☑ | C.3: Mandatory IF SUM ICS 32/3 "Generic Access Profile (BR/EDR)" AND SUM ICS 34/2 "Generic Access Profile (LE)", 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] 4.1.1	C.1	☑	C.1: Mandatory IF GAP 1/2 "Limited discoverable mode", otherwise Optional.
1/3	General discoverable mode	[1] 4.1.3	O	☑	
1/4	Non-connectable mode	[1] 4.2.1	O	☑	
1/5	Connectable mode	[1] 4.2.2	M	☑	

Table 2: Security Aspects

Prerequisite: GAP 0/1 "BR/EDR" OR GAP 0/3 "BR/EDR/LE"

Item	Capability	Reference	Support	Status	Comment
2/2	Support of LMP-Authentication	[1] 5.1	M	☑	
2/3	Initiate LMP-Authentication	[1] 5.1	C.5	☑	C.5: Mandatory IF GAP 2/5 "Security mode 2" OR GAP 2/6 "Security mode 3" OR GAP 2/7 "Security mode 4", otherwise Optional.
2/7	Security mode 4	[1] 5.2.2	M	☑	
2/8	Authenticated link key	[1] 5.2.2	C.6	☑	C.6: Mandatory to support at least one of GAP 2/8 "Authenticated link key" OR GAP 2/9 "Unauthenticated link key" OR GAP 2/10 "Security Optional" IF GAP 2/7 "Security mode 4", otherwise Excluded.
2/9	Unauthenticated link key	[1] 5.2.2	C.6	☑	C.6: Mandatory to support at least one of GAP 2/8 "Authenticated link key" OR GAP 2/9 "Unauthenticated link key" OR GAP 2/10 "Security Optional" IF GAP 2/7 "Security mode 4", otherwise Excluded.
2/10	Security Optional	[1] 5.2.2	C.6	☑	C.6: Mandatory to support at least one of GAP 2/8 "Authenticated link key" OR GAP 2/9 "Unauthenticated link key" OR GAP 2/10 "Security Optional" IF GAP 2/7 "Security mode 4", 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

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	Link Establishment as initiator	[1] 7.1	M	☑	
4/2	Link Establishment as acceptor	[1] 7.1	M	☑	
4/4	Channel Establishment as acceptor	[1] 7.2	M	☑	

Table 5: LE Roles

Prerequisite: GAP 0/2 "LE"

Item	Capability	Reference	Support	Status	Comment

Table 6: Broadcaster Physical Layer

Prerequisite: GAP 5/1 "Broadcaster (LE-Only)" OR GAP 38/1 "Broadcaster (BR/EDR/LE)"

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

Table 7: Broadcaster Link Layer States

Prerequisite: GAP 5/1 "Broadcaster (LE-Only)" OR GAP 38/1 "Broadcaster (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment
7/1	Standby state	[2] 2.2.2, 2.2.2.1	M	☑	
7/2	Advertising state	[2] 2.2.2, 2.2.2.1	M	☑	

Table 8: Broadcaster Link Layer Advertising Event Types

Prerequisite: GAP 5/1 "Broadcaster (LE-Only)" OR GAP 38/1 "Broadcaster (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment
8/1	Non-connectable and non-scannable undirected event	[2] 2.2.2	M	☑	

Table 8a: Broadcaster Link Layer Advertising Data Types

Prerequisite: GAP 5/1 "Broadcaster (LE-Only)" OR GAP 38/1 "Broadcaster (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment
8a/1	Service UUID	[3] 1.1	O	☑	
8a/2	Local Name	[3] 1.2	O	☑	
8a/3	Flags	[3] 1.3	O	☑	
8a/4	Manufacturer Specific Data	[3] 1.4	O	☑	

Table 9: Broadcaster Connection Modes and Procedures

Prerequisite: GAP 5/1 "Broadcaster (LE-Only)" OR GAP 38/1 "Broadcaster (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment
9/1	Non-connectable mode	[2] 9.3.2	M	☑	

Table 10: Broadcaster Broadcasting and Observing Features

Prerequisite: GAP 5/1 "Broadcaster (LE-Only)" OR GAP 38/1 "Broadcaster (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment
10/1	Broadcast mode	[2] 9.1.1	M	☑	

Table 11: Broadcaster Privacy Feature

Prerequisite: GAP 5/1 "Broadcaster (LE-Only)" OR GAP 38/1 "Broadcaster (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment
11/1	Privacy feature	[5] 10.7	O	☑	
11/2	Resolvable private address generation procedure	[5] 10.8.2.2, [6] 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", otherwise Optional.
11/3	Non-resolvable private address generation procedure	[5] 10.8.2.1, [6] 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", otherwise Optional.

Table 11a: Periodic Advertising Modes and Procedures

Prerequisite: (GAP 5/1 "Broadcaster (LE-Only)" OR GAP 38/1 "Broadcaster (BR/EDR/LE)") AND NOT (SUM ICS 31/17 "Core v4.2" OR SUM ICS 31/18 "Core v4.2+HS")

Item	Capability	Reference	Support	Status	Comment

Table 11b: Broadcaster Security Aspects Features

Prerequisite: GAP 5/1 "Broadcaster (LE-Only)" OR GAP 38/1 "Broadcaster (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment

Table 12: Observer Physical Layer

Prerequisite: GAP 5/2 "Observer (LE-Only)" OR GAP 38/2 "Observer (BR/EDR/LE)"

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

Table 13: Observer Link Layer States

Prerequisite: GAP 5/2 "Observer (LE-Only)" OR GAP 38/2 "Observer (BR/EDR/LE)"

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

Table 14: Observer Link Layer Scanning Types

Prerequisite: GAP 5/2 "Observer (LE-Only)" OR GAP 38/2 "Observer (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment
14/1	Passive scanning	[2] 2.2.2	M	☑	
14/2	Active scanning	[2] 2.2.2	O	☑	

Table 15: Observer Connection Modes and Procedures

Prerequisite: GAP 5/2 "Observer (LE-Only)" OR GAP 38/2 "Observer (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment
15/1	Non-connectable mode	[2] 9.3.2	M	☑	

Table 16: Observer Broadcasting and Observing Features

Prerequisite: GAP 5/2 "Observer (LE-Only)" OR GAP 38/2 "Observer (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment
16/1	Observation procedure	[2] 9.1.2	M	☑	

Table 17: Observer Privacy Feature

Prerequisite: GAP 5/2 "Observer (LE-Only)" OR GAP 38/2 "Observer (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment
17/1	Privacy feature	[5] 10.7	O	☑	
17/2	Non-resolvable private address generation procedure	[5] 10.8.2.1, [6] 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", otherwise Optional.
17/3	Resolvable private address resolution procedure	[5] 10.8.2.3, [6] 1.3.2.2	O	☑	
17/4	Resolvable private address generation procedure	[5] 10.8.2.2, [6] 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", otherwise Optional.

Table 17a: Periodic Advertising Modes and Procedures

Prerequisite: (GAP 5/2 "Observer (LE-Only)" OR GAP 38/2 "Observer (BR/EDR/LE)") AND NOT (SUM ICS 31/17 "Core v4.2" OR SUM ICS 31/18 "Core v4.2+HS")

Item	Capability	Reference	Support	Status	Comment

Table 17b: Observer Security Aspects Features

Prerequisite: GAP 5/2 "Observer (LE-Only)" OR GAP 38/2 "Observer (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment

Table 18: Peripheral Physical Layer

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

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

Table 19: Peripheral Link Layer States

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

Item	Capability	Reference	Support	Status	Comment
19/1	Standby state	[2] 2.2.2	M	☑	
19/2	Advertising state	[2] 2.2.2	M	☑	
19/3	Connection state, Peripheral role	[4] 2.2.2	M	☑	

Table 20: Peripheral Link Layer Advertising Event Types

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

Item	Capability	Reference	Support	Status	Comment
20/1	Connectable and scannable undirected event	[4] 2.2.2	M	☑	
20/2	Connectable directed event	[4] 2.2.2	O	☑	
20/3	Non-connectable and non-scannable undirected event	[4] 2.2.2, 9.3.2.2, 9.3.11.2	O	☑	
20/4	Scannable undirected event	[4] 2.2.2, 9.3.4.2	O	☑	

Table 20A: Peripheral Link Layer Advertising Data Types

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

Item	Capability	Reference	Support	Status	Comment
20A/1	Service UUID	[3] 1.1	C.1	☑	C.1: Optional IF GAP 20/1 "Connectable and scannable undirected event" OR GAP 20/3 "Non-connectable and non-scannable undirected event" OR GAP 20/4 "Scannable undirected event", otherwise Excluded.
20A/2	Local Name	[3] 1.2	C.1	☑	C.1: Optional IF GAP 20/1 "Connectable and scannable undirected event" OR GAP 20/3 "Non-connectable and non-scannable undirected event" OR GAP 20/4 "Scannable undirected event", otherwise Excluded.
20A/3	Flags	[3] 1.3	C.2	☑	C.2: Mandatory IF GAP 22/2 "Limited discoverable mode" OR GAP 22/3 "General discoverable mode", otherwise Optional.
20A/4	Manufacturer Specific Data	[3] 1.4	C.1	☑	C.1: Optional IF GAP 20/1 "Connectable and scannable undirected event" OR GAP 20/3 "Non-connectable and non-scannable undirected event" OR GAP 20/4 "Scannable undirected event", otherwise Excluded.

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	[4] 2.2.2	M	☑	
21/2	Channel Map Update procedure	[4] 2.2.2	M	☑	
21/3	Encryption procedure	[4] 2.2.2	O	☑	
21/4	Central-initiated Feature Exchange procedure	[4] 2.2.2	M	☑	
21/5	Version Exchange procedure	[4] 2.2.2	M	☑	
21/6	Termination procedure	[4] 2.2.2	M	☑	
21/8	Peripheral-initiated Feature Exchange procedure	[4] 2.2.2	C.1	☑	C.1: Mandatory IF GAP 21/9 "Connection Parameter Request procedure", otherwise Optional.
21/9	Connection Parameter Request procedure	[4] 2.2.2	O	☑	
21/10	Data Length Update procedure	[8] 2.2.2	O	☑	
21/11	PHY Update procedure	[8] 2.2.2	C.2	☑	C.2: Excluded IF SUM ICS 31/17 "Core v4.2" OR SUM ICS 31/18 "Core v4.2+HS", otherwise Optional.

Table 22: Peripheral Discovery Modes and Procedures

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

Item	Capability	Reference	Support	Status	Comment
22/1	Non-discoverable mode	[4] 9.2.2, 13.1	M	☑	
22/2	Limited discoverable mode	[4] 9.2.3, 13.1	O	☑	
22/3	General discoverable mode	[4] 9.2.4, 13.1	C.1	☑	C.1: Mandatory IF NOT GAP 22/2 "Limited discoverable mode", otherwise Optional.

Table 23: Peripheral Connection Modes and Procedures

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

Item	Capability	Reference	Support	Status	Comment
23/1	Non-connectable mode	[4] 9.3.2	M	☑	
23/3	Undirected connectable mode	[4] 9.3.4	M	☑	
23/4	Connection parameter update procedure	[4] 9.3.9	O	☑	
23/5	Terminate connection procedure	[4] 9.3.10	M	☑	
23/6	Connected Isochronous Stream Peripheral	[10] 9.3.14	C.1	☑	C.1: Mandatory IF LL 9/32 "Connected Isochronous Stream

| | Establishment procedure | | | | Peripheral", otherwise Excluded. |
| 23/7 | Connected Isochronous Stream Terminate procedure | [10] 9.3.15 | C.1 | ☑ | C.1: Mandatory IF LL 9/32 "Connected Isochronous Stream Peripheral", otherwise Excluded. |

Table 24: Peripheral Bonding Modes and Procedures

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

Item	Capability	Reference	Support	Status	Comment
24/1	Non-bondable mode	[2] 9.4.2	M	☑	
24/2	Bondable mode	[4] 9.4.3, 13.2	O	☑	
24/3	Bonding procedure	[4] 9.4.4, 13.2	O	☑	

Table 25: Peripheral Security Aspects Features

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

Item	Capability	Reference	Support	Status	Comment
25/1	LE security mode 1	[4] 10.2.1	O	☑	
25/11	Unauthenticated Pairing (LE security mode 1 level 2) with LE Secure Connections Pairing only	[5] 10.3	C.3	☑	C.3: Optional IF SM 2/5 "LE Secure Connections" AND GAP 25/1 "LE security mode 1", otherwise Excluded.
25/13	Minimum 128 Bit entropy key	[5] 10.3	C.5	☑	C.5: Mandatory IF GAP 25/9 "LE security mode 1 level 4", otherwise Optional IF GAP 25/11 "Unauthenticated Pairing (LE security mode 1 level 2) with LE Secure Connections Pairing only" OR GAP 25/12 "Authenticated Pairing (LE security mode 1 level 3) with LE Secure Connections Pairing only", 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
26/1	Privacy feature	[5] 10.7	O	☑	
26/2	Non-resolvable private address generation procedure	[5] 10.7, 10.8.2.1, [6] 1.3.2.2	O	☑	
26/3	Resolvable private address generation procedure	[5] 10.7, 10.8.2.2, [6] 1.3.2.2	C.1	☑	C.1: Mandatory IF GAP 26/1 "Privacy feature", otherwise Optional.
26/4	Resolvable private address resolution procedure	[5] 10.7, 10.8.2.3, [6] 1.3.2.2	C.1	☑	C.1: Mandatory IF GAP 26/1 "Privacy feature", otherwise Optional.

Table 27: Peripheral GAP Characteristics

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

Item	Capability	Reference	Support	Status	Comment
27/1	Device Name	[2] 12.1	M	☑	
27/2	Appearance	[2] 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 v4.2" OR SUM ICS 31/18 "Core v4.2+HS" OR SUM ICS 31/19 "Core v5.0")

Item	Capability	Reference	Support	Status	Comment

Table 28: Central Physical Layer

Prerequisite: GAP 5/4 "Central (LE-Only)" OR GAP 38/4 "Central (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment
28/1	Transmitter	[2] 2.2.2	M	☑	
28/2	Receiver	[2] 2.2.2	M	☑	

Table 29: Central Link Layer States

Prerequisite: GAP 5/4 "Central (LE-Only)" OR GAP 38/4 "Central (BR/EDR/LE)"

Item	Capability		Reference	Support	Status	Comment

29/1	Standby state	[2] 2.2.2	M	☑
29/2	Scanning state	[2] 2.2.2	M	☑
29/3	Initiating state	[2] 2.2.2	M	☑
29/4	Connection state, Central role	[2] 2.2.2	M	☑

Table 30: Central Link Layer Scanning Types

Prerequisite: GAP 5/4 "Central (LE-Only)" OR GAP 38/4 "Central (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment
30/1	Passive scanning	[2] 2.2.2	O	☑	
30/2	Active scanning	[2] 2.2.2	C.1	☑	C.1: Mandatory IF NOT GAP 30/1 "Passive scanning", otherwise Optional.

Table 31: Central Link Layer Control Procedures

Prerequisite: GAP 5/4 "Central (LE-Only)" OR GAP 38/4 "Central (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment
31/1	Connection Update procedure	[2] 2.2.2	M	☑	
31/2	Channel Map Update procedure	[2] 2.2.2	M	☑	
31/3	Encryption procedure	[2] 2.2.2	O	☑	
31/4	Central-initiated Feature Exchange procedure	[2] 2.2.2	M	☑	
31/5	Version Exchange procedure	[2] 2.2.2	M	☑	
31/6	Termination procedure	[2] 2.2.2	M	☑	

Table 32: Central Discovery Modes and Procedures

Prerequisite: GAP 5/4 "Central (LE-Only)" OR GAP 38/4 "Central (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment
32/2	General Discovery procedure	[4] 9.2.6	M	☑	

Table 33: Central Connection Modes and Procedures

Prerequisite: GAP 5/4 "Central (LE-Only)" OR GAP 38/4 "Central (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment
33/4	Direct connection establishment procedure	[2] 9.3.8	M	☑	
33/5	Connection parameter update procedure	[2] 9.3.9	M	☑	
33/6	Terminate connection procedure	[2] 9.3.10	M	☑	
33/7	Connected Isochronous Stream Central Establishment procedure	[10] 9.3.13	C.1	☑	C.1: Mandatory IF LL 9/31 "Connected Isochronous Stream Central", otherwise Excluded.
33/8	Connected Isochronous Stream Terminate procedure	[10] 9.3.15	C.1	☑	C.1: Mandatory IF LL 9/31 "Connected Isochronous Stream Central", otherwise Excluded.

Table 34: Central Bonding Modes and Procedures

Prerequisite: GAP 5/4 "Central (LE-Only)" OR GAP 38/4 "Central (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment
34/1	Non-bondable mode	[4] 9.4.2, 13.2	M	☑	

Table 35: Central Security Features

Prerequisite: GAP 5/4 "Central (LE-Only)" OR GAP 38/4 "Central (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment

Table 36: Central Privacy Feature

Prerequisite: GAP 5/4 "Central (LE-Only)" OR GAP 38/4 "Central (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment
36/1	Privacy feature	[5] 10.7	O	☑	

36/2	Non-resolvable private address generation procedure	[5] 10.7, 10.8.2.1, [6] 1.3.2.2	O	☑	
36/3	Resolvable private address resolution procedure	[5] 10.7, 10.8.2.3, [6] 1.3.2.2	C.1	☑	C.1: Mandatory IF GAP 36/1 "Privacy feature", otherwise Optional.
36/5	Resolvable private address generation procedure	[5] 10.7, 10.8.2.2, [6] 1.3.2.3	C.1	☑	C.1: Mandatory IF GAP 36/1 "Privacy feature", otherwise Optional.

Table 37: Central GAP Characteristics

Prerequisite: GAP 5/4 "Central (LE-Only)" OR GAP 38/4 "Central (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment
37/1	Device Name	[2] 12.1	M	☑	
37/2	Appearance	[2] 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 v4.2" OR SUM ICS 31/18 "Core v4.2+HS" OR SUM ICS 31/19 "Core v5.0")

Item	Capability	Reference	Support	Status	Comment

Table 38: BR/EDR/LE Roles

Prerequisite: GAP 0/3 "BR/EDR/LE"

Item	Capability	Reference	Support	Status	Comment
38/1	Broadcaster	[2] 13	C.1	☑	C.1: Mandatory to support at least one of GAP 38/1 "Broadcaster" OR GAP 38/2 "Observer" OR GAP 38/3 "Peripheral" OR GAP 38/4 "Central".
38/2	Observer	[2] 13	C.1	☑	C.1: Mandatory to support at least one of GAP 38/1 "Broadcaster" OR GAP 38/2 "Observer" OR GAP 38/3 "Peripheral" OR GAP 38/4 "Central".
38/3	Peripheral	[2] 13	C.1	☑	C.1: Mandatory to support at least one of GAP 38/1 "Broadcaster" OR GAP 38/2 "Observer" OR GAP 38/3 "Peripheral" OR GAP 38/4 "Central".
38/4	Central	[2] 13	C.1	☑	C.1: Mandatory to support at least one of GAP 38/1 "Broadcaster" OR GAP 38/2 "Observer" OR GAP 38/3 "Peripheral" OR GAP 38/4 "Central".

Table 41: Central BR/EDR/LE Security Aspects

Prerequisite: GAP 38/4 "Central (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment
41/1	Security aspects	[2] 14	M	☑	

Table 43: Peripheral BR/EDR/LE Security Aspects

Prerequisite: GAP 38/3 "Peripheral (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment
43/1	Security aspects	[2] 14	M	☑	

Table 44: Central Simultaneous BR/EDR and LE Transports

Prerequisite: GAP 38/4 "Central (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment

Table 45: Peripheral Simultaneous BR/EDR and LE Transports

Prerequisite: GAP 38/3 "Peripheral (BR/EDR/LE)"

Item	Capability	Reference	Support	Status	Comment

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 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 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	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 (GATT) 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	☑	
3/12	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	☑	
3/15	Write Long Characteristic Values	[1] 4.9.4	O	☑	
3/16	Characteristic Value Reliable Writes	[1] 4.9.5	O	☑	
3/18	Indications	[1] 4.11.1	M	☑	
3/19	Read Characteristic Descriptors	[1] 4.12.1	O	☑	
3/20	Read Long Characteristic Descriptors	[1] 4.12.2	O	☑	
3/21	Write Characteristic Descriptors	[1] 4.12.3	O	☑	
3/22	Write Long Characteristic Descriptors	[1] 4.12.4	O	☑	
3/23	Service Changed Characteristic	[1] 7.1	M	☑	

Table 4: Generic Attribute Profile Feature Support, by Server

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

Item	Capability	Reference	Support	Status	Comment
4/2	Discover All Primary Services	[1] 4.4.1	M	☑	
4/3	Discover	[1] 4.4.2	M	☑	

Item	Capability	Reference	Support	Status	Comment
	Primary Services by Service UUID				
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	☑	
4/12	Write without Response	[1] 4.9.1	C.2	☑	C.2: Mandatory IF (GATT 4/13 "Signed Write Without Response" OR ATT 2/3 "Enhanced ATT bearer Attribute Protocol Supported (L2CAP fixed EATT PSM supported)") is supported, otherwise Optional.
4/14	Write Characteristic Value	[1] 4.9.3	C.3	☑	C.3: Mandatory IF (GATT 4/15 "Write Long Characteristic Values" OR ATT 2/3 "Enhanced ATT bearer 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 "Enhanced ATT bearer Attribute Protocol Supported (L2CAP fixed EATT PSM supported)" is supported, otherwise Optional.
4/17	Notifications	[1] 4.10.1	O	☑	
4/19	Read Characteristic Descriptors	[1] 4.12.1	C.12	☑	C.12: Mandatory IF ATT 2/3 "Enhanced ATT bearer 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 "Enhanced ATT bearer Attribute Protocol Supported (L2CAP fixed EATT PSM supported)" is supported, otherwise Optional.
4/25	Execute Write Request with empty queue	[1] 4.9.4, 4.9.5, 4.12.4	C.7	☑	C.7: Optional IF (SUM ICS 31/17 "Core v4.2" OR SUM ICS 31/18 "Core v4.2+HS") AND (GATT 4/15 "Write Long Characteristic Values" OR GATT 4/16 "Characteristic Value Reliable Writes" OR GATT 4/22 "Write Long Characteristic Descriptors") are supported, otherwise Mandatory IF SUM ICS 31/17 "Core v4.2" OR SUM ICS 31/18 "Core v4.2+HS" is not supported 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 (L2CAP fixed channel support)"

Item	Capability	Reference	Support	Status	Comment

Table 7: Attribute Protocol Transport Security

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, otherwise 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, otherwise Optional IF GATT 2/2 "Attribute Protocol Supported over LE" is supported, otherwise Excluded.

Table 8: Multiple Simultaneous ATT Bearers

Item	Capability	Reference	Support	Status	Comment

Host Controller Interface

Table 1a: IUT Configuration

Item	Capability	Reference	Support	Status	Comment
1a/1	BR/EDR Controller	[1] 1.0	C.0	☑	C.0: Mandatory to support at least one of HCI 1a/1 "BR/EDR Controller" OR HCI 1a/2 "Host" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"the defined IUT Configurations.
1a/2	Host	[1] 1.0	C.0, C.901	☑	C.0: Mandatory to support at least one of the defined IUT Configurations. C.901: Optional IF SUMICS 21/14 "Core v4.2" OR SUMICS 21/16 "Core v5.0" OR SUMICS 21/18 "Core v5.1" OR SUMICS 21/20 "Core v5.2" is supported, otherwise Excluded.

Table 1:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
1/1	Command Complete event	[1] 7.7.14	M	☑	
1/2	Command Status event	[1] 7.7.15	M	☑	

Table 2:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
2/1	Reset command	[1] 7.3.2	M	☑	

Table 3:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
3/1	Read Buffer Size command	[1] 7.4.5	C.5a	☑	C.5a: Mandatory IF HCI 1a/1 "BR/EDR" OR HCI 1a/3 "AMP" is supported, otherwise Optional.

Table 4:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
4/1	Read Local Version Information command	[1] 7.4.1	M	☑	
4/2	Read Local Supported Commands command	[1] 7.4.2	M	☑	
4/3	Read Local Supported Features command	[1] 7.4.3	M	☑	
4/4	Read Local Extended Features command	[1] 7.4.4	C.220	☑	C.220: Mandatory IF LMP 11/4 "Respond to extended features Request" is supported, otherwise Excluded.
4/5	Read BD_ADDR command	[1] 7.4.6	M	☑	
4/12	Read Local Simple Pairing Options command	[7] 7.4.9	O	☑	

Table 5:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
5/1	Read Local Name command	[1] 7.3.12	M	☑	
5/2	Write Local Name command	[1] 7.3.11	M	☑	
5/3	Read Class of Device command	[1] 7.3.25	M	☑	
5/4	Write Class of Device command	[1] 7.3.26	M	☑	
5/5	Read Number of Supported IAC command	[1] 7.3.43	C.125	☑	C.125: Mandatory IF BB 10/2 "Inquiry Scan with first FHS" is supported, otherwise Excluded.
5/6	Read Current IAC LAP command	[1] 7.3.44	C.125	☑	C.125: Mandatory IF BB 10/2 "Inquiry Scan with first FHS" is supported, otherwise Excluded.
5/7	Write Current IAC LAP command	[1] 7.3.45	C.125	☑	C.125: Mandatory IF BB 10/2 "Inquiry Scan with first FHS" is supported, otherwise Excluded.
5/8	Read Scan Enable command	[1] 7.3.17	M	☑	
5/9	Write Scan Enable command	[1] 7.3.18	M	☑	

Table 6:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
6/1	Inquiry command	[1] 7.1.1	C.127	☑	C.127: Mandatory IF BB 10/1 "Inquiry" is supported, otherwise Excluded.
6/2	Inquiry Cancel command	[1] 7.1.2	C.127	☑	C.127: Mandatory IF BB 10/1 "Inquiry" is supported, otherwise Excluded.
6/3	Periodic Inquiry Mode command	[1] 7.1.3	C.128	☑	C.128: Optional IF BB 10/1 "Inquiry" is supported, otherwise Excluded.
6/4	Exit Periodic Inquiry Mode command	[1] 7.1.4	C.103	☑	C.103: Mandatory IF HCI 6/3 "Periodic Inquiry Mode command" is supported, otherwise Excluded.
6/5	Read Inquiry Scan Activity command	[1] 7.3.21	C.125	☑	C.125: Mandatory IF BB 10/2 "Inquiry Scan with first FHS" is supported, otherwise Excluded.
6/6	Write Inquiry Scan Activity command	[1] 7.3.22	C.125	☑	C.125: Mandatory IF BB 10/2 "Inquiry Scan with first FHS" is supported, otherwise Excluded.
6/7	Read Inquiry Scan Type command	[1] 7.3.47	C.125	☑	C.125: Mandatory IF BB 10/2 "Inquiry Scan with first FHS" is supported, otherwise Excluded.
6/8	Write Inquiry Scan Type command	[1] 7.3.48	C.125	☑	C.125: Mandatory IF BB 10/2 "Inquiry Scan with first FHS" is supported, otherwise Excluded.
6/9	Read Inquiry Mode command	[1] 7.3.49	C.115	☑	C.115: Mandatory IF HCI 6/10 "Write Inquiry Mode command" is supported, otherwise Excluded.
6/10	Write Inquiry Mode command	[1] 7.3.50	C.146	☑	C.146: Mandatory IF HCI 6/46 "Extended Inquiry Result event" OR HCI 16/54 "IO Capability Request event" is supported, otherwise Optional IF BB 10/1 "Inquiry" is supported, otherwise Excluded.
6/11	Read Inquiry Response Transmit Power Level command	[1] 7.3.61	C.125	☑	C.125: Mandatory IF BB 10/2 "Inquiry Scan with first FHS" is supported, otherwise Excluded.
6/12	Write Inquiry Transmit Power Level command	[1] 7.3.62	C.127	☑	C.127: Mandatory IF BB 10/1 "Inquiry" is supported, otherwise Excluded.
6/13	Read Extended Inquiry Response command	[1] 7.3.55	C.205	☑	C.205: Mandatory IF BB 10/7 "Extended Inquiry Response" is supported, otherwise Excluded.
6/14	Write Extended Inquiry Response command	[1] 7.3.56	C.205	☑	C.205: Mandatory IF BB 10/7 "Extended Inquiry Response" is supported, otherwise Excluded.
6/45	Inquiry Result event	[1] 7.7.2	C.127	☑	C.127: Mandatory IF BB 10/1 "Inquiry" is supported, otherwise Excluded.
6/46	Extended Inquiry Result event	[1] 7.7.38	C.147	☑	C.147: Optional IF HCI 6/47 "Inquiry Result with RSSI event" is supported, otherwise Excluded.
6/47	Inquiry Result with RSSI event	[1] 7.7.33	C.128	☑	C.128: Optional IF BB 10/1 "Inquiry" is supported, otherwise Excluded.
6/48	Inquiry Complete event	[1] 7.7.1	C.127	☑	C.127: Mandatory IF BB 10/1 "Inquiry" is supported, otherwise Excluded.

Table 7:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
7/1	Create Connection command	[1] 7.1.5	M	☑	
7/2	Accept Connection Request command	[1] 7.1.8	M	☑	
7/3	Reject Connection Request command	[1] 7.1.9	M	☑	
7/4	Create Connection Cancel command	[1] 7.1.7	M	☑	
7/5	Disconnect command	[1] 7.1.6	C.3b	☑	C.3b: Mandatory IF HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP" OR LL 1/4 "Peripheral Role" OR LL 1/5 "Central Role" is supported, otherwise Excluded.
7/6	Read Page Timeout command	[1] 7.3.15	M	☑	
7/7	Write Page Timeout command	[1] 7.3.16	M	☑	
7/8	Read Page Scan Activity command	[1] 7.3.19	M	☑	
7/9	Write Page Scan Activity command	[1] 7.3.20	M	☑	

7/10	Read Page Scan Type command	[1] 7.3.51	C.119	☑	C.119: Mandatory IF HCI 7/11 "Write Page Scan Type command" is supported, otherwise Excluded.
7/11	Write Page Scan Type command	[1] 7.3.52	C.154	☑	C.154: Mandatory IF BB 7/5 "Interlaced Scan during Page Scan" is supported, otherwise Optional.
7/12	Read Connection Accept Timeout command	[1] 7.3.13	C.40a	☑	C.40a: Mandatory IF (HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR LL 9/32 "Connected Isochronous Stream Peripheral") is supported, otherwise Excluded
7/13	Write Connection Accept Timeout command	[1] 7.3.14	C.40a	☑	C.40a: Mandatory IF (HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR LL 9/32 "Connected Isochronous Stream Peripheral") is supported, otherwise Excluded
7/26	Disconnection Complete event	[1] 7.7.5	C.3b	☑	C.3b: Mandatory IF HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP" OR LL 1/4 "Peripheral Role" OR LL 1/5 "Central Role" is supported, otherwise Excluded.
7/44	Connection Request event	[1] 7.7.4	M	☑	
7/45	Connection Complete event	[1] 7.7.3	M	☑	

Table 8:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
8/1	Remote Name Request command	[1] 7.1.19	O	☑	
8/2	Remote Name Request Cancel command	[1] 7.1.20	C.106	☑	C.106: Mandatory IF HCI 8/1 "Remote Name Request command" is supported, otherwise Excluded.
8/3	Read Remote Supported Features command	[1] 7.1.21	M	☑	
8/4	Read Remote Extended Features command	[1] 7.1.22	C.220	☑	C.220: Mandatory IF LMP 11/4 "Respond to extended features Request" is supported, otherwise Excluded.
8/5a	Read Remote Version Information command on BR/EDR	[1] 7.1.23	O	☑	
8/8a	Read Remote Version Information Complete event on BR/EDR	[1] 7.7.12	C.105	☑	C.105: Mandatory IF HCI 8/5a "Read Remote Version Information command on BR/EDR" is supported, otherwise Excluded.
8/11	Read Remote Extended Features Complete event	[1] 7.7.34	C.220	☑	C.220: Mandatory IF LMP 11/4 "Respond to extended features Request" is supported, otherwise Excluded.
8/12	Read Remote Supported Features Complete event	[1] 7.7.11	M	☑	
8/13	Remote Host Supported Features Notification event	[1] 7.7.50	C.106	☑	C.106: Mandatory IF HCI 8/1 "Remote Name Request command" is supported, otherwise Excluded.
8/14	Remote Name Request Complete event	[1] 7.7.7	C.106	☑	C.106: Mandatory IF HCI 8/1 "Remote Name Request command" is supported, otherwise Excluded.

Table 9:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
9/1	Setup Synchronous Connection command	[1] 7.1.26	C.134	☑	C.134: Mandatory IF BB 2/2 "SCO link" OR BB 2/3 "eSCO link" is supported, otherwise Excluded.
9/2	Accept Synchronous Connection Request command	[1] 7.1.27	C.134	☑	C.134: Mandatory IF BB 2/2 "SCO link" OR BB 2/3 "eSCO link" is supported, otherwise Excluded.
9/3	Reject Synchronous Connection Request command	[1] 7.1.28	C.134	☑	C.134: Mandatory IF BB 2/2 "SCO link" OR BB 2/3 "eSCO link" is supported, otherwise Excluded.
9/4	Read Voice Setting command	[1] 7.3.27	C.134	☑	C.134: Mandatory IF BB 2/2 "SCO link" OR BB 2/3 "eSCO link" is supported, otherwise Excluded.
9/5	Write Voice Setting command	[1] 7.3.28	C.134	☑	C.134: Mandatory IF BB 2/2 "SCO link" OR BB 2/3 "eSCO link" is supported, otherwise Excluded.
9/6	SCO data via HCI	[1] 5.4.3	C.135a	☑	C.135a: Optional IF BB 2/2 "SCO link" is supported, otherwise Excluded.
9/7	eSCO data via HCI	[1] 5.4.3	C.135b	☑	C.135b: Optional IF BB 2/3 "eSCO link" is supported, otherwise Excluded.
9/10	Enhanced Setup Synchronous Connection command	[1] 7.1.45	C.135	☑	C.135: Optional IF BB 2/2 "SCO link" OR BB 2/3 "eSCO link" is supported, otherwise Excluded.
9/11	Enhanced Accept Synchronous Connection Request command	[1] 7.1.46	C.135	☑	C.135: Optional IF BB 2/2 "SCO link" OR BB 2/3 "eSCO link" is supported, otherwise Excluded.

Item	Capability	Reference	Support	Status	Comment
9/12	Synchronous Connection Complete event	[1] 7.7.35	C.134	☑	C.134: Mandatory IF BB 2/2 "SCO link" OR BB 2/3 "eSCO link" is supported, otherwise Excluded.
9/13	Synchronous Connection Changed event	[1] 7.7.36	C.134	☑	C.134: Mandatory IF BB 2/2 "SCO link" OR BB 2/3 "eSCO link" is supported, otherwise Excluded.

Table 10:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
10/2	Sniff Mode command	[1] 7.2.2	C.214	☑	C.214: Mandatory IF LMP 2/8 "Sniff mode" is supported, otherwise Excluded.
10/3	Exit Sniff Mode command	[1] 7.2.3	C.214	☑	C.214: Mandatory IF LMP 2/8 "Sniff mode" is supported, otherwise Excluded.
10/6	Read Link Policy Settings command	[1] 7.2.9	C.141	☑	C.141: Mandatory IF LMP 2/6 "Role switch" OR LMP 2/7 "Hold mode" OR LMP 2/8 "Sniff mode" is supported, otherwise Excluded.
10/7	Write Link Policy Settings command	[1] 7.2.10	C.141	☑	C.141: Mandatory IF LMP 2/6 "Role switch" OR LMP 2/7 "Hold mode" OR LMP 2/8 "Sniff mode" is supported, otherwise Excluded.
10/8	Read Default Link Policy Settings command	[1] 7.2.11	C.141	☑	C.141: Mandatory IF LMP 2/6 "Role switch" OR LMP 2/7 "Hold mode" OR LMP 2/8 "Sniff mode" is supported, otherwise Excluded.
10/9	Write Default Link Policy Settings command	[1] 7.2.12	C.141	☑	C.141: Mandatory IF LMP 2/6 "Role switch" OR LMP 2/7 "Hold mode" OR LMP 2/8 "Sniff mode" is supported, otherwise Excluded.
10/35	Max Slots Change event	[1] 7.7.27	C.132	☑	C.132: Mandatory IF BB 5/2 "DM3 packet type" OR BB 5/3 "DH3 packet type" OR BB 5/4 "DM5 packet type" OR BB 5/5 "DH5 packet type" OR SUM ICS 22/2 "EDR for asynchronous transports (multi-slot)" is supported, otherwise Excluded.
10/36	Mode Change event	[1] 7.7.20	C.144	☑	C.144: Mandatory IF LMP 2/7 "Hold mode" OR LMP 2/8 "Sniff mode" is supported, otherwise Excluded.
10/37	Role Change event	[1] 7.7.18	C.212	☑	C.212: Mandatory IF LMP 2/6 "Role switch" is supported, otherwise Excluded.
10/38	Connection Packet Type Changed event	[1] 7.7.29	C.133	☑	C.133: Mandatory IF BB 5/2 "DM3 packet type" OR BB 5/3 "DH3 packet type" OR BB 5/4 "DM5 packet type" OR BB 5/5 "DH5 packet type" OR BB 6/2 "HV2 packet type" OR BB 6/3 "HV3 packet type" OR BB 2/4 "Enhanced Data Rate ACL links" is supported, otherwise Excluded.

Table 11:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
11/1	Role Discovery command	[1] 7.2.7	O	☑	
11/2	Switch Role command	[1] 7.2.8	C.212	☑	C.212: Mandatory IF LMP 2/6 "Role switch" is supported, otherwise Excluded.

Table 12:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
12/1	Flow Specification command	[1] 7.2.13	M	☑	
12/2	QoS Setup command	[1] 7.2.6	M	☑	
12/3	Flush command	[1] 7.3.4	M	☑	
12/4	Read Automatic Flush Timeout command	[1] 7.3.29	M	☑	
12/5	Write Automatic Flush Timeout command	[1] 7.3.30	M	☑	
12/6	Read Failed Contact Counter command	[1] 7.5.1	M	☑	
12/7	Reset Failed Contact Counter command	[1] 7.5.2	M	☑	
12/10	Enhanced Flush command	[1] 7.3.66	M	☑	
12/17	Sniff Subrating command	[1] 7.2.14	C.221	☑	C.221: Mandatory IF LMP 16/7 "Sniff Subrating mode" is supported, otherwise Excluded.

Item	Capability	Reference	Support	Status	Comment
12/18	Sniff Subrating event	[1] 7.7.37	C.221	☑	C.221: Mandatory IF LMP 16/7 "Sniff Subrating mode" is supported, otherwise Excluded.
12/22	Flush Occurred event	[1] 7.7.17	M	☑	
12/23	Enhanced Flush Complete event	[1] 7.7.47	M	☑	
12/24	Flow Specification Complete event	[1] 7.7.32	M	☑	
12/26	QoS Setup Complete event	[1] 7.7.13	M	☑	
12/27	QoS Violation event	[1] 7.7.30	M	☑	

Table 13:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
13/1a	Read Link Supervision Timeout command on BR/EDR	[1] 7.3.41	C.117	☑	C.117: Mandatory IF HCI 13/2a "Write Link Supervision Timeout command on BR/EDR" is supported, otherwise Excluded.
13/2a	Write Link Supervision Timeout command on BR/EDR	[1] 7.3.42	O	☑	
13/3	Read AFH Channel Assessment Mode command	[1] 7.3.53	C.140	☑	C.140: Mandatory IF LMP 26/1 "Support of AFH switch as Central" OR LMP 26/6 "Support of Channel Classification" is supported, otherwise Excluded.
13/4	Write AFH Channel Assessment Mode command	[1] 7.3.54	C.140	☑	C.140: Mandatory IF LMP 26/1 "Support of AFH switch as Central" OR LMP 26/6 "Support of Channel Classification" is supported, otherwise Excluded.
13/5	Set AFH Host Channel Classification command	[1] 7.3.46	C.140	☑	C.140: Mandatory IF LMP 26/1 "Support of AFH switch as Central" OR LMP 26/6 "Support of Channel Classification" is supported, otherwise Excluded.
13/6	Change Connection Packet Type command	[1] 7.1.14	C.133	☑	C.133: Mandatory IF BB 5/2 "DM3 packet type" OR BB 5/3 "DH3 packet type" OR BB 5/4 "DM5 packet type" OR BB 5/5 "DH5 packet type" OR BB 6/2 "HV2 packet type" OR BB 6/3 "HV3 packet type" OR BB 2/4 "Enhanced Data Rate ACL links" is supported, otherwise Excluded.
13/7	Link Supervision Timeout Changed event	[1] 7.7.46	M	☑	

Table 14:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
14/2	Set Event Mask command	[1] 7.3.1	M	☑	
14/3	Set Event Filter command	[1] 7.3.3	C.148	☑	C.148: Optional IF HCI 7/45 "Connection Complete event" OR HCI 7/44 "Connection Request event" OR HCI 6/46 "Extended Inquiry Result event" OR HCI 6/47 "Inquiry Result with RSSI event" OR HCI 16/54 "IO Capability Request event" OR HCI 9/12 "Synchronous Connection Complete event" is supported, otherwise Excluded.
14/8	Set Event Mask Page 2 command	[1] 7.3.69	O	☑	
14/12	Number of Completed Packets event	[1] 7.7.19	C.3a	☑	C.3a: Mandatory IF HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR LL 1/4 "Peripheral Role" OR LL 1/5 "Central Role" is supported, otherwise Excluded.
14/15	Read LE Host Support command	[1] 7.3.78	C.116	☑	C.116: Mandatory IF HCI 14/16 "Write LE Host Support command" is supported, otherwise Excluded.
14/16	Write LE Host Support command	[1] 7.3.79	C.153a	☑	C.153: Mandatory IF HCI 1a/4 "LE Controller" is supported, otherwise Optional.
14/23	Separate BR/EDR and LE Data Buffers	[1] 1.1	O	☑	

Table 15:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
15/1	Read LMP Handle command	[1] 7.1.25	C.134	☑	C.134: Mandatory IF BB 2/2 "SCO link" OR BB 2/3 "eSCO link" is supported, otherwise Excluded.
15/2b	Read Transmit Power Level command on BR/EDR	[1] 7.3.35	C.152	☑	C.152: Mandatory IF LMP 2/10 "Power Control" is supported, otherwise Optional.
15/5	Read Clock Offset command	[1] 7.1.24	O	☑	
15/6	Read Clock command	[1] 7.5.6	O	☑	
15/7	Read AFH Channel Map command	[1] 7.5.5	C.139	☑	C.139: Mandatory IF LMP 26/1 "Support of AFH switch as Central" OR LMP 26/2 "Support of AFH switch as Peripheral" is supported, otherwise Excluded.
15/10	Read Clock Offset Complete event	[1] 7.7.28	C.104	☑	C.104: Mandatory IF HCI 15/5 "Read Clock Offset command" is supported, otherwise Excluded.

Table 16:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
16/1	Read Authentication Enable command	[1] 7.3.23	C.111	☑	C.111: Mandatory IF HCI 16/2 "Write Authentication Enable command" is supported, otherwise Excluded.
16/2	Write Authentication Enable command	[1] 7.3.24	O	☑	
16/5	Link Key Request Reply command	[1] 7.1.10	M	☑	
16/6	Link Key Request Negative Reply command	[1] 7.1.11	M	☑	
16/7	PIN Code Request Reply command	[1] 7.1.12	M	☑	
16/8	PIN Code Request Negative Reply command	[1] 7.1.13	M	☑	
16/9	Authentication Requested command	[1] 7.1.15	O	☑	
16/10	Set Connection Encryption command	[1] 7.1.16	M	☑	
16/11	Change Connection Link Key command	[1] 7.1.17	O	☑	
16/13	Read PIN Type command	[1] 7.3.5	C.120	☑	C.120: Mandatory IF HCI 16/14 "Write PIN Type command" is supported, otherwise Excluded.
16/14	Write PIN Type command	[1] 7.3.6	O	☑	
16/15	Read Stored Link Key command	[1] 7.3.8	C.121	☑	C.121: Mandatory IF HCI 16/16 "Write Stored Link Key command" is supported, otherwise Excluded.
16/16	Write Stored Link Key command	[1] 7.3.9	O	☑	
16/17	Delete Stored Link Key command	[1] 7.3.10	C.121	☑	C.121: Mandatory IF HCI 16/16 "Write Stored Link Key command" is supported, otherwise Excluded.
16/19	User Confirmation Request Reply command	[1] 7.1.30	M	☑	
16/20	User Confirmation Request Negative Reply command	[1] 7.1.31	M	☑	
16/21	User Passkey Request Reply command	[1] 7.1.32	M	☑	
16/22	User Passkey Request Negative Reply command	[1] 7.1.33	M	☑	
16/23	IO Capability Request Reply command	[1] 7.1.29	M	☑	
16/23a	IO Capability Request Negative Reply command	[1] 7.1.36	M	☑	
16/24a	Remote OOB Data Request Reply command	[1] 7.1.34	M	☑	
16/25	Remote OOB Data Request Negative Reply command	[1] 7.1.35	M	☑	
16/26	Read Local OOB Data command	[1] 7.3.60	M		

Item	Capability	Reference	Support	Status	Comment
				☑	
16/27	Write Simple Pairing Mode command	[1] 7.3.59	M	☑	
16/28	Read Simple Pairing Mode command	[1] 7.3.58	M	☑	
16/29	Refresh Encryption Key command	[1] 7.3.57	M	☑	
16/30	Read Encryption Key Size command	[1] 7.5.7	M	☑	
16/31	Send Keypress Notification command	[1] 7.3.63	M	☑	
16/37a	Encryption Change event [v1] on BR/EDR	[1] 7.7.8	M	☑	
16/38a	Encryption Key Refresh Complete event on BR/EDR	[1] 7.7.39	M	☑	
16/40	Link Key Notification event	[1] 7.7.24	M	☑	
16/41	Read Secure Connections Host Support command	[1] 7.3.91	C.218	☑	C.218: Mandatory IF LMP 2/26 "Secure Connections (Controller Support)" is supported, otherwise Excluded.
16/42	Write Secure Connections Host Support command	[1] 7.3.92	C.218	☑	C.218: Mandatory IF LMP 2/26 "Secure Connections (Controller Support)" is supported, otherwise Excluded.
16/45	Write Secure Connections Test Mode command	[1] 7.6.8	C.138	☑	C.138: Mandatory IF LMP 2/26 "Secure Connections (Controller Support)" is supported, otherwise Optional IF BB 2/3 "eSCO link" is supported, otherwise Excluded.
16/46a	Authenticated Payload Timeout Expired event on BR/EDR	[4] 7.7.75	C.155a	☑	C.155a: Mandatory IF HCI 16/48a "Write Authenticated Payload Timeout on BR/EDR command" is supported, otherwise Optional.
16/47a	Read Authenticated Payload Timeout command on BR/EDR	[4] 7.3.93	C.155a	☑	C.155a: Mandatory IF HCI 16/48a "Write Authenticated Payload Timeout on BR/EDR command" is supported, otherwise Optional.
16/48a	Write Authenticated Payload Timeout command on BR/EDR	[4] 7.3.94	C.151	☑	C.151: Mandatory IF LMP 2/26 "Secure Connections (Controller Support)" AND LMP 2/27 "Ping" are supported, otherwise Excluded.
16/54	IO Capability Request event	[1] 7.7.40	M	☑	
16/55	IO Capability Response event	[1] 7.7.41	M	☑	
16/56	Link Key Request event	[1] 7.7.23	M	☑	
16/57	Return Link Keys event	[1] 7.7.21	C.121	☑	C.121: Mandatory IF HCI 16/16 "Write Stored Link Key command" is supported, otherwise Excluded.
16/58	Change Connection Link Key Complete event	[1] 7.7.9	C.102	☑	C.102: Mandatory IF HCI 16/11 "Change Connection Link Key command" is supported, otherwise Excluded.
16/60	Keypress Notification event	[1] 7.7.49	M	☑	
16/61	PIN Code Request event	[1] 7.7.22	M	☑	
16/62	Remote OOB Data Request event	[1] 7.7.44	M	☑	
16/63	User Passkey Request event	[1] 7.7.43	M	☑	
16/64	User Passkey Notification event	[1] 7.7.48	M	☑	
16/65	User Confirmation Request event	[1] 7.7.42	M	☑	
16/66	Authentication Complete event	[1] 7.7.6	C.101	☑	C.101: Mandatory IF HCI 16/9 "Authentication Requested command" is supported, otherwise Excluded.
16/67	Simple Pairing Complete event	[1] 7.7.45	M	☑	

Table 17:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment
17/1	Read Loopback Mode command	[1] 7.6.1	C.123	☑	C.123: Mandatory IF LMP 25/1 "Activate test mode" is supported, otherwise Excluded.
17/2	Write Loopback Mode command	[1] 7.6.2	C.123	☑	C.123: Mandatory IF LMP 25/1 "Activate test mode" is supported, otherwise Excluded.
17/3a	Enable Device Under Test Mode command on BR/EDR	[1] 7.6.3	C.123	☑	C.123: Mandatory IF LMP 25/1 "Activate test mode" is supported, otherwise Excluded.
17/4	Write Simple Pairing Debug Mode command	[1] 7.6.4	M	☑	
17/22	Loopback command event	[1] 7.7.25	C.123	☑	C.123: Mandatory IF LMP 25/1 "Activate test mode" is supported,

Table 18:

Prerequisite: HCI 1a/1 "BR/EDR Controller" OR HCI 1a/3 "AMP Controller" OR HCI 1a/4 "LE Controller"

Item	Capability	Reference	Support	Status	Comment

Hands-Free Profile

Table 0a: AG Major Profile Version (X.Y)

Prerequisite: HFP 1/1 "Audio Gateway (AG)"

Item	Capability	Reference	Support	Status	Comment

Table 0b: HF Major Profile Version (X.Y)

Prerequisite: HFP 1/2 "Hands-Free (HF)"

Item	Capability	Reference	Support	Status	Comment
0b/4	Hands-Free Profile 1.8	[5]	C.1	☑	C.1: Mandatory to support one and only one of HFP 0b/1 "Hands-Free Profile 1.5" OR HFP 0b/2 "Hands-Free Profile 1.6" OR HFP 0b/3 "Hands-Free Profile 1.7" OR HFP 0b/4 "Hands-Free Profile 1.8".

Table 0c: AG Minor Profile Versions (X.Y.Z)

Prerequisite: HFP 1/1 "Audio Gateway (AG)"

Item	Capability	Reference	Support	Status	Comment

Table 0d: HF Minor Profile Versions (X.Y.Z)

Prerequisite: HFP 1/2 "Hands-Free (HF)"

Item	Capability	Reference	Support	Status	Comment

Table 1: Role Requirements

Item	Capability	Reference	Support	Status	Comment
1/2	Hands-Free (HF)	[1] 2.2	C.1	☑	C.1: Mandatory to support at least one of HFP 1/1 "Audio Gateway (AG)" OR HFP 1/2 "Hands-Free (HF)".

Table 2: Capabilities of the AG

Prerequisite: HFP 1/1 "Audio Gateway (AG)"

Item	Capability	Reference	Support	Status	Comment

Table 3: Capabilities of the HF

Prerequisite: HFP 1/2 "Hands-Free (HF)"

Item	Capability	Reference	Support	Status	Comment
3/1	Connection Management	[1] 4.2; 4.3	M	☑	
3/2a	Phone Status Information (service and call indicators)	[1] 4.4; 4.10	M	☑	
3/3	Audio connection handling	[1] 4.11; 4.12	M	☑	
3/3b	eSCO support in Audio Connection	[1] 5.7.1	C.7	☑	C.7: Mandatory IF HFP 3/26 "Support CVSD eSCO S4 setting" OR HFP 3/24 "Wide Band Speech service" is supported, otherwise Optional.
3/4a	Accept an incoming voice call (in-band ring)	[1] 4.13	M	☑	
3/4b	Accept an incoming voice call (no in-band ring)	[1] 4.13	M	☑	
3/5	Reject an incoming voice call	[1] 4.14	M	☑	
3/6	Terminate a call	[1] 4.15	M	☑	
3/7	Audio connection transfer during an ongoing call	[1] 4.16; 4.17	M	☑	
3/12	Three Way Calling	[1] 4.22	O	☑	

3/12a	Three way calling (AT+CHLD values 0)	[1] 4.22	C.2	☑	C.2: Optional IF HFP 3/12 "Three Way Calling" is supported, otherwise Excluded.
3/12b	Three way calling (AT+CHLD values 1 and 2)	[1] 4.22	C.1	☑	C.1: Mandatory IF HFP 3/12 "Three Way Calling" is supported, otherwise Excluded.
3/12c	Three way calling (AT+CHLD value 3)	[1] 4.22	C.2	☑	C.2: Optional IF HFP 3/12 "Three Way Calling" is supported, otherwise Excluded.
3/12d	Three way calling (AT+CHLD value 4)	[1] 4.22	C.2	☑	C.2: Optional IF HFP 3/12 "Three Way Calling" is supported, otherwise Excluded.
3/13	Calling Line Identification (CLI)	[1] 4.23	O	☑	
3/15	Voice recognition activation/deactivation	[1] 4.25	O	☑	
3/18a	Remote audio volume control – speaker	[1] 4.28,1	O	☑	
3/18b	Remote audio volume control – microphone	[1] 4.28.1	O	☑	
3/18c	Volume Level Synchronization – speaker	[1] 4.28.2	C.3	☑	C.3: Mandatory IF HFP 3/18a "Remote audio volume control – speaker" OR HFP 3/18b "Remote audio volume control – microphone" is supported, otherwise Optional.
3/18d	Volume Level Synchronization – microphone	[1] 4.28.2	C.4	☑	C.4: Mandatory IF HFP 3/18b "Remote audio volume control – microphone" is supported, otherwise Optional.
3/18e	HF informs AG about local changes of audio volume	[1] 4.28.2	O	☑	
3/18f	HF informs AG about local changes of microphone gain	[1] 4.28.2	O	☑	
3/26	Support CVSD eSCO S4 setting	[2] 5.7.3	C.9	☑	C.9: Excluded IF HFP 0b/1 "Hands-Free Profile 1.5" OR HFP 0b/2 "Hands-Free Profile 1.6" is supported, otherwise Mandatory.

Table 4: Requirements towards the Link Control Procedures of the Serial Port Profile (AG and HF)

Item	Capability	Reference	Support	Status	Comment
4/1	CVSD audio coding over SCO	[1] 2.3	M	☑	
4/3	CVSD audio coding over eSCO (Initiating)	[1] 5.7.3	C.2	☑	C.2: Mandatory IF HFP 2/3b "eSCO support in Audio Connection" OR HFP 3/3b "eSCO support in Audio Connection" is supported, otherwise Excluded.
4/4	CVSD audio coding over eSCO (Accepting)	[1] 5.7.3	C.2	☑	C.2: Mandatory IF HFP 2/3b "eSCO support in Audio Connection" OR HFP 3/3b "eSCO support in Audio Connection" is supported, otherwise Excluded.

Table 5: Requirements towards the Roles of the Serial Port Profile (AG and HF)

Item	Capability	Reference	Support	Status	Comment
5/1	Device A (DevA)	[1] 5	M	☑	
5/2	Device B (DevB)	[1] 5	M	☑	

Table 6: Requirements towards the Generic Access Profile (AG)

Prerequisite: HFP 1/1 "Audio Gateway (AG)"

Item	Capability	Reference	Support	Status	Comment

Table 7: Requirements towards the Generic Access Profile (HF)

Prerequisite: HFP 1/2 "Hands-Free (HF)"

Item	Capability	Reference	Support	Status	Comment
7/1	General discoverable mode	[1] 6.1	M	☑	

Table 7b: Requirements towards the Core Specification

Item	Capability	Reference	Support	Status	Comment
7b/1	Enhanced Data Rate	[1] 3	C.1	☑	C.1: Mandatory IF HFP 0a/1 "Hands-Free Profile 1.5" AND HFP 0b/1 "Hands-Free Profile 1.5" AND HFP 0a/2 "Hands-Free Profile 1.6" AND HFP 0b/2 "Hands-Free Profile 1.6" are not supported, otherwise Optional.

Table 8: Additional Hands-Free Capabilities

Item	Capability	Reference	Support	Status	Comment

Isochronous Adaptation Layer

Table 1: Supported Features

Item	Capability	Reference	Support	Status	Comment
1/1	Framed Data Traffic	[1] 2.2	M	☑	
1/2	Unframed Data Traffic	[1] 2.1	M	☑	
1/3	Connected Isochronous Stream Adaptation	[1] 2	C.1	☑	C.1: Mandatory IF LL 9/31 "Connected Isochronous Stream Central" OR LL 9/32 "Connected Isochronous Stream Peripheral" is supported, otherwise Excluded.
1/4	Broadcast Isochronous Stream Adaptation	[1] 2	C.2	☑	C.2: Mandatory IF LL 9/33 "Isochronous Broadcaster" is supported, otherwise Excluded.
1/5	Synchronized Receiver Adaptation	[1] 2	C.3	☑	C.3: Mandatory IF LL 9/34 "Synchronized Receiver" 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 "Logical Link Control and Adaptation Protocol (L2CAP)" AND SUM ICS 34/1 "Logical Link Control and Adaptation Protocol (L2CAP)", otherwise Excluded.

Table 1: Role Requirements

Item	Capability	Reference	Support	Status	Comment
1/1	Data Channel Initiator	[1] 2	C.3	☑	C.3: Optional IF L2CAP 0/1 "BR/EDR (includes possible support of GAP LE Broadcaster or LE Observer roles)" OR L2CAP 0/3 "BR/EDR/LE", otherwise Excluded.
1/2	Data Channel Acceptor	[1] 2	C.1	☑	C.1: Mandatory IF L2CAP 0/1 "BR/EDR (includes possible support of GAP LE Broadcaster or LE Observer roles)" OR L2CAP 0/3 "BR/EDR/LE", otherwise Excluded.
1/3	LE Central	[4] 2	C.2	☑	C.2: Mandatory to support at least one of L2CAP 1/3 "LE Central" OR L2CAP 1/4 "LE Peripheral" IF L2CAP 0/2 "LE" OR L2CAP 0/3 "BR/EDR/LE", otherwise Excluded.
1/4	LE Peripheral	[4] 2	C.2	☑	C.2: Mandatory to support at least one of L2CAP 1/3 "LE Central" OR L2CAP 1/4 "LE Peripheral" IF L2CAP 0/2 "LE" OR L2CAP 0/3 "BR/EDR/LE", otherwise Excluded.

Table 2: General Operation

Item	Capability	Reference	Support	Status	Comment
2/1	L2CAP Signaling channel over BR/EDR	[1] 2.2	C.16	☑	C.16: Mandatory IF L2CAP 0/1 "BR/EDR (includes possible support of GAP LE Broadcaster or LE Observer roles)" OR L2CAP 0/3 "BR/EDR/LE", otherwise Excluded.
2/2	Configuration process	[1] 7.1	C.16	☑	C.16: Mandatory IF L2CAP 0/1 "BR/EDR (includes possible support of GAP LE Broadcaster or LE Observer roles)" OR L2CAP 0/3 "BR/EDR/LE", otherwise Excluded.
2/3	Connection-oriented data channel over BR/EDR	[1] 2.2	C.16	☑	C.16: Mandatory IF L2CAP 0/1 "BR/EDR (includes possible support of GAP LE Broadcaster or LE Observer roles)" OR L2CAP 0/3 "BR/EDR/LE", otherwise Excluded.
2/5	Send echo response	[1] 4.9	C.16	☑	C.16: Mandatory IF L2CAP 0/1 "BR/EDR (includes possible support of GAP LE Broadcaster or LE Observer roles)" OR L2CAP 0/3 "BR/EDR/LE", otherwise Excluded.
2/7	Send information response	[1] 4.11	C.16	☑	C.16: Mandatory IF L2CAP 0/1 "BR/EDR (includes possible support of GAP LE Broadcaster or LE Observer roles)" OR L2CAP 0/3 "BR/EDR/LE", otherwise Excluded.
2/40	L2CAP LE Signaling channel	[4] 2.1, 2.2	C.13	☑	C.13: Mandatory IF L2CAP 0/2 "LE" OR L2CAP 0/3 "BR/EDR/LE", otherwise Excluded.
2/41	Command reject	[4] 4.10	C.13	☑	C.13: Mandatory IF L2CAP 0/2 "LE" OR L2CAP 0/3 "BR/EDR/LE", otherwise Excluded.
2/43	Send Connection Parameter Update Response	[4] 4.21	C.15	☑	C.15: Mandatory IF L2CAP 1/3 "LE Central", otherwise Excluded.

Table 3: Configurable Parameters

Item	Capability	Reference	Support	Status	Comment
3/1	RTX timer	[1] 6.2.1	M	☑	
3/2	ERTX timer	[1] 6.2.2	C.4	☑	C.4: Mandatory IF L2CAP 0/1 "BR/EDR (includes possible support of GAP LE Broadcaster or LE Observer roles)" OR L2CAP 0/3 "BR/EDR/LE", otherwise Excluded.
3/3	Minimum MTU size of 48 octets	[1] 5.1	C.4	☑	C.4: Mandatory IF L2CAP 0/1 "BR/EDR (includes possible support of GAP LE Broadcaster or LE Observer roles)" OR L2CAP 0/3 "BR/EDR/LE", otherwise Excluded.
3/4	MTU size larger than 48 octets	[1] 5.1	C.5	☑	C.5: Optional IF L2CAP 0/1 "BR/EDR (includes possible support of GAP LE Broadcaster or LE Observer roles)" OR L2CAP 0/3 "BR/EDR/LE", otherwise Excluded.
3/5	Flush timeout value for reliable channel	[1] 5.2	C.4	☑	C.4: Mandatory IF L2CAP 0/1 "BR/EDR (includes possible support of GAP LE Broadcaster or LE Observer roles)" OR L2CAP 0/3 "BR/EDR/LE", otherwise Excluded.
3/12	Minimum MTU size of 23 octets	[4] 5.1	C.6	☑	C.6: Mandatory IF L2CAP 0/2 "LE" OR L2CAP 0/3 "BR/EDR/LE", otherwise Excluded.

Table 4: GAP Requirements – Security Aspects (LE)

Item	Capability	Reference	Support	Status	Comment
4/3	Encryption procedure	[1] 4.23, 4.26	C.2	☑	C.2: Mandatory IF GAP 25/6 "Authenticate signed data procedure" OR GAP 25/7 "Authenticated Pairing (LE security mode 1 level 3)" OR GAP 25/9 "LE security mode 1 level 4" OR GAP 35/6 "Authenticate signed data procedure" OR GAP 35/7 "Authenticated Pairing (LE security mode 1 level 3)" OR GAP 35/9 "LE security mode 1 level 4", otherwise Optional.

Table 5: GAP Requirements – Security Aspects (BR/EDR)

Item	Capability	Reference	Support	Status	Comment

Low Energy Link Layer

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 LL 1/1 "Advertising State" OR LL 1/2 "Scanning State" OR LL 1/3 "Initiating State".
1/2	Scanning State	[1] 4.4.3	C.1	☑	C.1: Mandatory to support at least one of LL 1/1 "Advertising State" OR LL 1/2 "Scanning State" OR LL 1/3 "Initiating State".
1/3	Initiating State	[1] 4.4.4	C.1	☑	C.1: Mandatory to support at least one of LL 1/1 "Advertising State" OR LL 1/2 "Scanning State" OR LL 1/3 "Initiating State".
1/3a	Synchronized State	[7] 4.4.5	C.4	☑	C.4: Excluded IF SUM ICS 21/14 "Core v4.2" OR SUM ICS 21/16 "Core v5.0", otherwise Mandatory IF LL 6/28 "Accepting Periodic Advertising Sync Transfer Procedure" OR LL 7/28 "Accepting Periodic Advertising Sync Transfer Procedure" OR LL 4/8 "Scanning for Periodic Advertising", otherwise Excluded.
1/4	Peripheral Role	[1] 4.5.5	C.3	☑	C.3: Optional IF LL 1/1 "Advertising State", otherwise Excluded.
1/5	Central Role	[1] 4.5.4	C.2	☑	C.2: Mandatory IF LL 1/3 "Initiating State", otherwise Excluded.
1/6	Isochronous Broadcasting State	[8] 4.4.6	C.5	☑	C.5: Excluded IF SUM ICS 21/14 "Core v4.2" OR SUM ICS 21/16 "Core v5.0" OR SUM ICS 21/18 "Core v5.1", otherwise Optional.

Table 2: Device Address 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 2/2 "Random 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 2/2 "Random Address" OR LL 2/3 "Static Address".
2/3	Static Address	[4] 1.3.2.1	C.1	☑	C.1: Mandatory to support at least one of LL 2/1 "Public Address" OR LL 2/2 "Random Address" OR LL 2/3 "Static Address".
2/6	Network Privacy Mode – Ignore Identity Address when IRK is present in resolving list	[4] 4.7	C.4	☑	C.4: Mandatory IF LL 9/13 "LL Privacy", otherwise Excluded.

| 2/7 | Device Privacy Mode | | [4] 4.7 | C.5 | ☑ | C.5: Optional IF LL 9/13 "LL Privacy" AND SUM ICS 21/14 "Core v4.2", otherwise Mandatory IF LL 9/13 "LL Privacy", otherwise Excluded. |

Table 3: Protocol Advertising Features

Prerequisite: LL 1/1 "Advertising State"

Item	Capability	Reference	Support	Status	Comment
3/1a	Non-Connectable and Non-Scannable Directed Events	[7] 4.4.2.9	C.10	☑	C.10: Mandatory IF LL 3/9 "Extended Advertising", otherwise Excluded.
3/2	Connectable and Scannable Undirected Events	[1] 4.4.2.3	C.2	☑	C.2: Mandatory IF GAP 5/3 "Peripheral", otherwise Optional.
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	☑	
3/4b	Connectable Undirected Events	[7] 4.4.2.7	C.10	☑	C.10: Mandatory IF LL 3/9 "Extended Advertising", otherwise Excluded.
3/5	Scannable Undirected Events	[1] 4.4.2.5	O	☑	
3/5a	Scannable Directed Events	[7] 4.4.2.8	C.10	☑	C.10: Mandatory IF LL 3/9 "Extended Advertising", otherwise Excluded.
3/6	Sending Scan Responses	[1] 4.4.2.3, 4.4.2.5	C.2	☑	C.2: Mandatory IF GAP 5/3 "Peripheral", 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", otherwise Optional.
3/9	Extended Advertising	[5] 4.6.12	C.6	☑	C.6: Mandatory IF LL 9/41 "Extended Advertising", otherwise Excluded.
3/10	Periodic Advertising	[5] 4.4.2.12	C.12	☑	C.12: Mandatory IF LL 9/42 "Periodic Advertising", otherwise Excluded.

Table 4: Protocol Scanning Features

Prerequisite: LL 1/2 "Scanning State"

Item	Capability	Reference	Support	Status	Comment
4/2	Receiving Advertising Data	[1] 4.4.3.1, 4.4.3.2	M	☑	
4/5	Filtering Policies	[1] 4.3.3	M	☑	
4/6a	Periodic Sync Establishment Filtering Policies	[5] 4.6.13	C.6	☑	C.6: Mandatory IF LL 4/8 "Scanning for Periodic Advertising", otherwise Excluded.
4/7	Extended Scanning	[5] 4.6.12	C.4	☑	C.4: Mandatory IF LL 9/41 "Extended Advertising", otherwise Excluded.
4/8	Scanning for Periodic Advertising	[5] 4.4.3.4	C.5	☑	C.5: Mandatory IF LL 9/42 "Periodic Advertising", otherwise Excluded.

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	☑	
5/4	Requesting connections using extended advertising	[5] 4.6.12	C.1	☑	C.1: Mandatory IF LL 9/41 "Extended Advertising", otherwise Excluded.

Table 6: Protocol Peripheral Role Features

Prerequisite: LL 1/4 "Peripheral Role"

Item	Capability	Reference	Support	Status	Comment
6/1	Peripheral 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] 5.1.4.1	M	☑	
6/4a	Requesting Feature Setup	[1] 5.1.4.2	C.18	☑	C.18: Mandatory IF LL 9/5 "Peripheral-initiated Features Exchange", otherwise

Item	Capability	Reference	Support	Status	Comment
					Excluded.
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	☑	
6/10	Accepting Parameter Update	[1] 5.1.1	M	☑	
6/10a	Initiating Connection Parameter Request	[1] 5.1	O	☑	
6/10b	Accepting Connection Parameter Request	[1] 5.1	C.2	☑	C.2: Mandatory IF LL 6/10a "Initiating Connection Parameter Request", otherwise Excluded.
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", 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	Peripheral Pause Encryption	[1] 5.1.3	C.17	☑	C.17: Mandatory IF LL 9/1 "LE Encryption", otherwise Excluded.
6/19	Peripheral Version Exchange	[1] 5.1.5	M	☑	
6/21	LE Authenticated Payload Timeout	[3] 5.4	C.5	☑	C.5: Mandatory IF LL 9/2 "LE Ping Procedure", otherwise Excluded.
6/22	Data Length Update Procedure	[4] 5.1.9	C.4	☑	C.4: Mandatory IF LL 9/6 "LE Data Packet Length Extension", otherwise Excluded.
6/23	Minimum Number Of Used Channels Procedure	[5] 4.6.15	C.6	☑	C.6: Mandatory IF LL 9/12 "Minimum Number of Used Channels Procedure", otherwise Excluded.
6/23a	PHY Update procedure	[5] 5.1.10	C.9	☑	C.9: Excluded IF SUM ICS 21/14 "Core v4.2", otherwise Mandatory IF LL 9/6a "Multiple PHYs", otherwise Optional.
6/26	Initiating Periodic Advertising Sync Transfer Procedure for Local Periodic Advertising	[7] 5.1.13	C.10	☑	C.10: Mandatory IF LL 9/28 "Initiating Periodic Advertising Sync Transfer for Local Periodic Advertising", otherwise Excluded.
6/27	Initiating Periodic Advertising Sync Transfer Procedure for Remote Periodic Advertising	[7] 5.1.13	C.11	☑	C.11: Mandatory IF LL 9/29 "Initiating Periodic Advertising Sync Transfer for Remote Periodic Advertising", otherwise Excluded.
6/28	Accepting Periodic Advertising Sync Transfer Procedure	[7] 5.1.13	C.12	☑	C.12: Mandatory IF LL 9/27 "Periodic Advertising Sync Transfer – Recipient", otherwise Excluded.
6/29	Sending Long Control PDUs	[7] 4.5.11	C.13	☑	C.13: Mandatory IF LL 6/26 "Initiating Periodic Advertising Sync Transfer Procedure for Local Periodic Advertising" OR LL 6/27 "Initiating Periodic Advertising Sync Transfer Procedure for Remote Periodic Advertising", otherwise Excluded.
6/30	Receiving Long Control PDUs	[7] 4.5.11	C.14	☑	C.14: Mandatory IF (LL 6/28 "Accepting Periodic Advertising Sync Transfer Procedure" OR LL 9/32 "Connected Isochronous Stream Peripheral"), otherwise Excluded.
6/31	Can Change Sleep Clock Accuracy	[7] 4.6.25	C.15	☑	C.15: Mandatory IF LL 9/40 "Can Change Sleep Clock Accuracy", otherwise Excluded.
6/32	Bi-Directional Data in Single Connected Isochronous Stream	[8] 4.5.14	C.16	☑	C.16: Mandatory IF LL 9/32 "Connected Isochronous Stream Peripheral", otherwise Excluded.

Table 7: Protocol Central Role Features

Prerequisite: LL 1/5 "Central Role"

Item	Capability	Reference	Support	Status	Comment
7/1	Central 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] 5.1.4.1	M	☑	
7/4a	Responding in Feature Setup	[1] 5.1.4.2	C.18	☑	C.18: Mandatory IF LL 9/5 "Peripheral-initiated Features Exchange", otherwise Excluded.
7/5	Sending Data (Device supports data output from a Host)	[1] 4.5.1, 4.5.6	M	☑	
7/6	Receiving Data (Device	[1] 4.5.1,	M	☑	

	supports data input to a Host) 4.5.6				
7/10	Requesting Parameter Update	[1] 5.1.1	M	☑	
7/10a	Initiating Connection Parameter Request	[1] 5.1	C.2	☑	C.2: Mandatory IF LL 7/10b "Accepting Connection Parameter Request", otherwise Excluded.
7/10b	Accepting Connection Parameter Request	[1] 5.1	O	☑	
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	Central Pause Encryption	[1] 5.1.3	C.17	☑	C.17: Mandatory IF LL 9/1 "LE Encryption", otherwise Excluded.
7/20	Central Version Exchange	[1] 5.1.5	M	☑	
7/21	LE Authenticated Payload Timeout	[3] 5.4	C.5	☑	C.5: Mandatory IF LL 9/2 "LE Ping Procedure", otherwise Excluded.
7/22	Data Length Update Procedure	[4] 5.1.9	C.4	☑	C.4: Mandatory IF LL 9/6 "LE Data Packet Length Extension", otherwise Excluded.
7/23	Minimum Number Of Used Channels Procedure	[5] 4.6.15	C.6	☑	C.6: Mandatory IF LL 9/12 "Minimum Number of Used Channels Procedure", otherwise Excluded.
7/23a	PHY Update procedure	[5] 5.1.10	C.9	☑	C.9: Excluded IF SUM ICS 21/14 "Core v4.2", otherwise Mandatory IF LL 9/6a "Multiple PHYs", otherwise Optional.
7/26	Initiating Periodic Advertising Sync Transfer Procedure for Local Periodic Advertising	[7] 5.1.13	C.10	☑	C.10: Mandatory IF LL 9/28 "Initiating Periodic Advertising Sync Transfer for Local Periodic Advertising" , otherwise Excluded.
7/27	Initiating Periodic Advertising Sync Transfer Procedure for Remote Periodic Advertising	[7] 5.1.13	C.11	☑	C.11: Mandatory IF LL 9/29 "Initiating Periodic Advertising Sync Transfer for Remote Periodic Advertising", otherwise Excluded.
7/28	Accepting Periodic Advertising Sync Transfer Procedure	[7] 5.1.13	C.12	☑	C.12: Mandatory IF LL 9/27 "Periodic Advertising Sync Transfer – Recipient", otherwise Excluded.
7/29	Sending Long Control PDUs	[7] 4.5.11	C.13	☑	C.13: Mandatory IF (LL 7/26 "Initiating Periodic Advertising Sync Transfer Procedure for Local Periodic Advertising" OR LL 7/27 "Initiating Periodic Advertising Sync Transfer Procedure for Remote Periodic Advertising" OR LL 9/31 "Connected Isochronous Stream Central"), otherwise Excluded.
7/30	Receiving Long Control PDUs	[7] 4.5.11	C.14	☑	C.14: Mandatory IF LL 7/28 "Accepting Periodic Advertising Sync Transfer Procedure", otherwise Excluded.
7/31	Can Change Sleep Clock Accuracy	[7] 4.6.25	C.15	☑	C.15: Mandatory IF LL 9/40 "Can Change Sleep Clock Accuracy", otherwise Excluded.
7/32	Connected Isochronous Stream – Sequential	[8] 4.5.14	C.16	☑	C.16: Mandatory IF LL 9/31 "Connected Isochronous Stream Central", otherwise Excluded.
7/33	Connected Isochronous Stream – Interleaved	[8] 4.5.14	C.16	☑	C.16: Mandatory IF LL 9/31 "Connected Isochronous Stream Central", otherwise Excluded.

Table 8: Physical Channels

Item	Capability	Reference	Support	Status	Comment
8/1	Data channels (channel index 0 to 36)	[1] 1.4.1	C.1	☑	C.1: Mandatory IF LL 1/4 "Peripheral Role" OR LL 1/5 "Central Role", 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 "Peripheral Role" OR LL 1/5 "Central Role", otherwise Excluded.

Table 9: Supported Features

Item	Capability	Reference	Support	Status	Comment

9/1	LE Encryption	[1] 4.6.1	O	☑	
9/2	LE Ping Procedure	[3] 4.6.5	O	☑	
9/3	Connection Parameters Request Procedure	[1] 4.6.2	C.2	☑	C.2: Mandatory IF (LL 6/10a "Initiating Connection Parameter Request" OR LL 7/10b "Accepting Connection Parameter Request"), otherwise Excluded.
9/4	Extended Reject Indication	[1] 4.6.3	C.3	☑	C.3: Mandatory IF LL 9/3 "Connection Parameters Request Procedure" OR LL 9/6a "Multiple PHYs" OR LL 9/14 "Connection CTE Request" OR LL 9/15 "Connection CTE Response" OR LL 9/31 "Connected Isochronous Stream Central" OR LL 9/32 "Connected Isochronous Stream Peripheral" OR LL 9/37 "LE Power Control Request", otherwise Optional.
9/5	Peripheral-initiated Features Exchange	[1] 4.6.4	O	☑	
9/6	LE Data Packet Length Extension	[4] 4.6.6	O	☑	
9/6a	Multiple PHYs	[5] 4.6.9	C.6	☑	C.6: Mandatory IF LL 9/7 "LE 2M PHY" OR LL 9/9 "LE Coded PHY", otherwise Excluded.
9/7	LE 2M PHY	[4] 2.1	C.5	☑	C.5: Excluded IF SUM ICS 21/14 "Core v4.2", otherwise Optional.
9/8	Asymmetric Connections	[5] 4.6.9.1	C.7	☑	C.7: Optional IF LL 9/6a "Multiple PHYs", otherwise Excluded.
9/9	LE Coded PHY	[5] 2.2	C.5	☑	C.5: Excluded IF SUM ICS 21/14 "Core v4.2", otherwise Optional.
9/10	Channel Selection Algorithm #2	[5] 4.6.14	C.8	☑	C.8: Excluded IF SUM ICS 21/14 "Core v4.2", otherwise Mandatory IF (LL 9/41 "Extended Advertising" AND (LL 1/4 "Peripheral Role" OR LL 1/5 "Central Role")) OR LL 9/42 "Periodic Advertising", otherwise Optional.
9/12	Minimum Number of Used Channels Procedure	[5] 4.6.15	C.10	☑	C.10: Excluded IF SUM ICS 21/14 "Core v4.2", otherwise Optional.
9/13	LL Privacy	[5] 4.6.7	O	☑	
9/26	Periodic Advertising Sync Transfer – Sender	[7] 4.6.23	C.21	☑	C.21: Mandatory IF (LL 9/28 "Initiating Periodic Advertising Sync Transfer for Local Periodic Advertising" OR LL 9/29 "Initiating Periodic Advertising Sync Transfer for Remote Periodic Advertising") , otherwise Excluded.
9/27	Periodic Advertising Sync Transfer – Recipient	[7] 4.6.24	C.22	☑	C.22: Optional IF (LL 11/1 "Synchronizing to Periodic Advertising" AND (LL 1/4 "Peripheral Role" OR LL 1/5 "Central Role")), otherwise Excluded.
9/28	Initiating Periodic Advertising Sync Transfer for Local Periodic Advertising	[7] 5.1.13	C.23	☑	C.23: Excluded IF SUM ICS 21/16 "Core v5.0", otherwise Optional IF (LL 3/10 "Periodic Advertising" AND (LL 1/4 "Peripheral Role" OR LL 1/5 "Central Role")), otherwise Excluded.
9/29	Initiating Periodic Advertising Sync Transfer for Remote Periodic Advertising	[7] 5.1.13	C.22	☑	C.22: Optional IF (LL 11/1 "Synchronizing to Periodic Advertising" AND (LL 1/4 "Peripheral Role" OR LL 1/5 "Central Role")), otherwise Excluded.
9/30	Sleep Clock Accuracy Update	[7] 4.6.25	C.24	☑	C.24: Excluded IF SUM ICS 21/14 "Core v4.2" OR SUM ICS 21/16 "Core v5.0", otherwise Mandatory IF LL 6/31 "Can Change Sleep Clock Accuracy" OR LL 7/31 "Can Change Sleep Clock Accuracy", otherwise Optional.
9/31	Connected Isochronous Stream Central	[8] 4.6.27	C.28	☑	C.28: Excluded IF SUM ICS 21/14 "Core v4.2" OR SUM ICS 21/16 "Core v5.0" OR SUM ICS 21/18 "Core v5.1", otherwise Optional IF LL 1/5 "Central Role", otherwise Excluded.
9/32	Connected Isochronous Stream Peripheral	[8] 4.6.27	C.29	☑	C.29: Excluded IF SUM ICS 21/14 "Core v4.2" OR SUM ICS 21/16 "Core v5.0" OR SUM ICS 21/18 "Core v5.1", otherwise Optional IF LL 1/4 "Peripheral Role", otherwise Excluded.
9/33	Isochronous Broadcaster	[8] 4.6.28	C.30	☑	C.30: Mandatory IF LL 1/6 "Isochronous Broadcasting State", otherwise Excluded.
9/34	Synchronized Receiver	[8] 4.6.29	C.31	☑	C.31: Excluded IF SUM ICS 21/14 "Core v4.2" OR SUM ICS 21/16 "Core v5.0", otherwise Optional IF LL 1/3a "Synchronized State", otherwise Excluded.
9/35	ISO Receive Test	[9] 7.8.112, 7.8.113, 7.8.114	C.32	☑	C.32: Mandatory IF LL 9/31 "Connected Isochronous Stream Central" OR LL 9/32 "Connected Isochronous Stream Peripheral" OR LL 9/34 "Synchronized Receiver", otherwise Excluded.
9/36	ISO Transmit Test	[9] 7.8.111, 7.8.114	C.33	☑	C.33: Mandatory IF LL 1/6 "Isochronous Broadcasting State" OR LL 9/31 "Connected Isochronous Stream Central" OR LL 9/32 "Connected Isochronous Stream Peripheral", otherwise Excluded.
9/37	LE Power Control Request	[8] 4.6.31	C.34	☑	C.34: Excluded IF SUM ICS 21/14 "Core v4.2" OR SUM ICS 21/16 "Core v5.0" OR SUM ICS 21/18 "Core v5.1", otherwise Optional.
9/40	Can Change Sleep Clock Accuracy	[7] 4.6.25	C.37	☑	C.37: Excluded IF SUM ICS 21/14 "Core v4.2" OR SUM ICS 21/16 "Core v5.0", otherwise Optional.

Item	Capability	Reference	Status		Comment
9/41	Extended Advertising	[7] 4.6.12	C.38	☑	C.38: Excluded IF SUM ICS 21/14 "Core v4.2", otherwise Optional.
9/42	Periodic Advertising	[7] 4.6.13	C.39	☑	C.39: Optional IF LL 9/41 "Extended Advertising", otherwise Excluded.

Table 10: Scatternet Capabilities

Item	Capability	Reference	Support	Status	Comment

Table 11: Protocol Synchronizing Features

Prerequisite: LL 1/3a "Synchronized State"

Item	Capability	Reference	Support	Status	Comment
11/1	Synchronizing to Periodic Advertising	[7] 4.4.3.4	C.3	☑	C.3: Mandatory IF LL 4/8 "Scanning for Periodic Advertising", otherwise Excluded.
11/3	Receiving Data on Single Broadcast Isochronous Stream	[8] 4.4.5.2	C.2	☑	C.2: Mandatory IF LL 9/34 "Synchronized Receiver", otherwise Excluded.

Table 11a: Synchronized Receiver Features

Prerequisite: LL 9/34 "Synchronized Receiver"

Item	Capability	Reference	Support	Status	Comment

Table 12: Protocol Isochronous Broadcasting Features

Prerequisite: LL 1/6 "Isochronous Broadcasting State"

Item	Capability	Reference	Support	Status	Comment
12/1	Encrypting a Broadcast Isochronous Stream	[8] 4.4.6.14.4.6.10	C.1	☑	C.1: Mandatory IF LL 9/1 "LE Encryption", otherwise Excluded.
12/2	Unencrypted Broadcast Isochronous Stream	[8] 4.4.6.1	M	☑	

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.4	☑	C.4: Mandatory IF LMP 2/21 "BR/EDR Not Supported" is not supported, otherwise Excluded.
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.
2/6	Role switch	[1] 3.3, 4.4.2	C.5	☑	C.5: Excluded IF LMP 2/21 "BR/EDR Not Supported" is supported, otherwise Optional IF LMP 2/4 "Slot offset" is supported, otherwise Excluded.
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: Excluded IF LMP 2/21 "BR/EDR Not Supported" is supported, otherwise Mandatory IF RF 1/1 "Power Class 1" 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.
2/13a	Power Control	[1] 3.3,	C.11	☑	C.11: Excluded IF LMP 2/21 "BR/EDR Not Supported" is supported, otherwise Optional.

Item	Capability	Reference		Support	Status	Comment
	Requests	4.1.3				
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.
2/17	Enhanced Data Rate ACL (2 Mb/s mode)	[3] 6.5.4, [1] 3.3	C.2	☑		C.2: Excluded IF LMP 2/21 "BR/EDR Not Supported" is supported, otherwise Mandatory IF SUM ICS 22/1 "EDR for asynchronous transports (single slot)" OR SUM ICS 22/2 "EDR for asynchronous transports (multi-slot)" OR LMP 2/17a "Enhanced Data Rate ACL (3 Mb/s mode)" OR BB 5a/1 "2-DH1 packet type" is supported, otherwise Excluded.
2/17a	Enhanced Data Rate ACL (3 Mb/s mode)	[3] 1, 6.5.4, [1] 3.3	C.19	☑		C.19: Excluded IF LMP 2/21 "BR/EDR Not Supported" is supported, otherwise Mandatory IF BB 5a/4 "3-DH1 packet type" is supported, otherwise Excluded.
2/18	Enhanced Data Rate eSCO (2 Mb/s mode)	[3] 6.5.3, [1] 3.3	C.3	☑		C.3: Excluded IF LMP 2/21 "BR/EDR Not Supported" is supported, otherwise Mandatory IF SUM ICS 22/4 "EDR for synchronous transports (Core 3.0 or later)" OR LMP 2/18a "Enhanced Data Rate eSCO (3 Mb/s mode)" OR BB 6a/1 "2-EV3 packet type" is supported, otherwise Excluded.
2/19a	Simple Pairing Updates	[6], [7] 4.2.7.4	C.4	☑		C.4: Mandatory IF LMP 2/21 "BR/EDR Not Supported" is not supported, otherwise Excluded.
2/19b	Secure Simple Pairing (Controller Support)	[1] 4.2.7	C.4	☑		C.4: Mandatory IF LMP 2/21 "BR/EDR Not Supported" is not supported, otherwise Excluded.
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.
2/26	Secure Connections (Controller Support)	[4] 3.3	C.9	☑		C.9: Excluded IF LMP 2/21 "BR/EDR Not Supported" is supported, otherwise Optional IF LMP 2/27 "Ping" AND LMP 6/10 "Encryption Pause/Resume" are supported, otherwise Excluded.
2/27	Ping	[4] 3.3, 4.1.13	C.11	☑		C.11: Excluded IF LMP 2/21 "BR/EDR Not Supported" is supported, otherwise Optional.

Table 3: Authentication

Item	Capability	Reference	Support	Status	Comment
3/3	Respond to authentication request	[1] 4.2.1	M	☑	

Table 4: Pairing

Item	Capability	Reference	Support	Status	Comment
4/3	Respond to pairing request	[1] 4.2.2.1, 4.2.2.3	M	☑	
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".
4/7	TSPC_Change_of_IO_Capabilities	[1] 4.2.7.3.4	M	☑	

Table 5: Link Keys

Item	Capability	Reference	Support	Status	Comment
5/2	Creation of link key - Combination Key	[1] 4.2.2.4	M	☑	
5/4	Accept change of link key	[1] 4.2.3	M	☑	
5/8	Support for 7 bytes or longer encryption key size	[1] 4.2.5.2	C.1	☑	C.1: Mandatory IF SUM ICS 21/21 "Core v5.3" is supported, otherwise Excluded.

Table 6: Encryption

Prerequisite: LMP 2/3 "Encryption"

Item	Capability	Reference	Support	Status	Comment
6/1	Initiate encryption	[1] 4.2.5.1	M	☑	
6/2	Accept encryption	[1] 4.2.5.1	M		

	requests			☑	
6/5	Key size negotiation	[1] 4.2.5.2	M	☑	
6/6	Start encryption, as Central	[1] 4.2.5.3	M	☑	
6/7	Accept start of encryption	[1] 4.2.5.3	M	☑	
6/8	Stop encryption, as Central	[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	☑	
6/11	AES CCM Encryption	[4] 4.2.5	C.3	☑	C.3: Mandatory IF LMP 2/26 "Secure Connections (Controller Support)" is supported, otherwise Excluded.

Table 7: Clock Offset Information

Item	Capability	Reference	Support	Status	Comment
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

Table 9: Timing Accuracy Information

Prerequisite: LMP 2/5 "Timing accuracy"

Item	Capability	Reference	Support	Status	Comment

Table 10: LM Version Information

Item	Capability	Reference	Support	Status	Comment
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	M	☑	
11/2	Respond to supported features requests	[1] 4.3.4	M	☑	
11/3	Request extended features mask	[1] 4.3.4	C.2	☑	C.2: Mandatory IF a feature requiring another features page (a feature with an LMP feature number greater than 63 in Table 3.1: Mapping of LMP Feature Bits to ICS Items) is supported, otherwise Optional.
11/4	Respond to extended features Request	[1] 4.3.4	C.2	☑	C.2: Mandatory IF a feature requiring another features page (a feature with an LMP feature number greater than 63 in Table 3.1: Mapping of LMP Feature Bits to ICS Items) is supported, otherwise Optional.

Table 12: Name Information

Item	Capability	Reference	Support	Status	Comment
12/1	Request name information	[1] 4.3.5	M	☑	
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

Item	Capability	Reference	Support	Status	Comment
13/2	Accept role 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 Date 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 (2 Mb/s mode)" 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 (2 Mb/s mode)" 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 (2 Mb/s mode)" is supported, otherwise Excluded.

Table 15: Hold Mode

Prerequisite: LMP 2/7 "Hold mode"

Item	Capability	Reference	Support	Status	Comment

Table 16: Sniff Mode

Prerequisite: LMP 2/8 "Sniff mode"

Item	Capability	Reference	Support	Status	Comment
16/3	Respond to sniff mode requests (renegotiate or reject)	[1] 4.5.3.2	M	☑	
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 2/13a "Power Control Requests" is supported, otherwise Excluded.
18/2	Request to Decrease Power	[1] 4.1.3	C.1	☑	C.1: Mandatory IF LMP 2/13a "Power Control Requests" 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.

Table 19: Link Supervision Timeout

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

Table 20: Quality of Service

Item	Capability	Reference	Support	Status	Comment
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

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

Prerequisite: LMP 2/30 "Paging Parameter Negotiation"

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 completed	[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	☑	
25/4	Ability to reject test mode control commands if test mode is disabled	[1] 4.7.2	M	☑	

Table 26: Adaptive Frequency Hopping

Item	Capability	Reference	Support	Status	Comment
26/1	Support of AFH switch as Central	[1] 4.1.4	O	☑	
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 Central" OR LMP 26/4 "Support of Channel Classification reporting as Peripheral" 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
27/2	Respond to LMP Ping	[4] 4.1.13	M	☑	

Table 28: Coarse Clock Adjustment

Prerequisite: LMP 2/28 "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
1/2	Power Class 2	[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.

RFCOMM

Table 0: Protocol Versions

Item	Capability	Reference	Support	Status	Comment
0/2	RFCOMM 1.2 with TS 07.10	RFCOMM 1.2	C.1	☑	C.1: Mandatory to support one and only one of the protocol versions.

Table 1: Supported Procedures

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

Item	Capability	Reference	Support	Status	Comment
1/16	Respond to PN command	[1] 5.5.3	M	☑	
1/18	Send Non-Supported Command (NSC) response	[1] 4.3	C.4	☑	C.4: Mandatory to support IF 0/2 "RFCOMM 1.2" is supported, otherwise Optional.
1/19	Respond to RPN command	[1] 5.5.1	M	☑	
1/22	Support of Credit Based Flow Control	[1] 6.5	M	☑	

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 RFPHY 1/1 "LE Transmitter" OR RFPHY 1/2 "LE Receiver" OR RFPHY 1/3 "LE Transceiver". Note: Selecting both RFPHY 1/1 "LE Transmitter" and RFPHY 1/2 "LE Receiver" is equivalent to selecting RFPHY 1/3 "LE Transceiver" and vice versa.
1/4	LE 2M PHY	[3] 3, 4	C.2	☑	C.2: Excluded IF SUM ICS 21/14 "Core v4.2", otherwise Optional.
1/7	LE Coded PHY	[3] 3, 4	C.2	☑	C.2: Excluded IF SUM ICS 21/14 "Core v4.2", otherwise Optional.

Table 2: Bluetooth LE Test Interface Capabilities

Item	Capability	Reference	Support	Status	Comment
2/2	UART Test Interface	[2] 3	C.1	☑	C.1: Mandatory to support at least one of RFPHY 2/1 "HCI Test Interface" OR RFPHY 2/2 "UART Test Interface".

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.

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	☑	

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	☑	

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

Table 9: Attributes Present in IUT

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

Security Manager Protocol

Table 1: Role Requirements

Item	Capability	Reference	Support	Status	Comment
1/1	Central Role (Initiator)	[1] 2.4	C.1	☑	C.1: Mandatory IF NOT SM 1/2 "Peripheral Role (Responder)", otherwise Optional.
1/2	Peripheral Role (Responder)	[1] 2.4	C.2	☑	C.2: Optional IF GAP 5/3 "Peripheral (LE-Only)" OR GAP 38/3 "Peripheral (BR/EDR/LE)", 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 SM 2/1 "Authenticated MITM protection", otherwise Optional.
2/3	No security requirements	[1] 2.3.1	M	☑	
2/5	LE Secure Connections	[3] 2.3.1	O	☑	

Table 3: Encryption Key Size

Prerequisite: SM 2/1 "Authenticated MITM protection" OR SM 2/2 "Unauthenticated no MITM protection" OR SM 2/4 "OOB supported"

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

Table 4: Pairing Method

Item	Capability	Reference	Support	Status	Comment

| 4/2 | Passkey Entry | [1] 2.3.5 | C.1 | ☑ | C.1: Mandatory to support at least one of SM 4/2 "Passkey Entry" OR SM 4/3 "Out of Band" IF SM 2/1 "Authenticated MITM protection", otherwise Excluded. |

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 SM 2/1 "Authenticated MITM protection" OR SM 2/2 "Unauthenticated no MITM protection" OR SM 2/4 "OOB supported", otherwise Excluded.
5/4	Peripheral Initiated Security – Central response	[1] 2.4.6	C.2	☑	C.2: Mandatory IF SM 1/1 "Central Role (Initiator)", otherwise Excluded.

Table 6: Signing Algorithm

Item	Capability	Reference	Support	Status	Comment

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 34/2 "Bondable mode", otherwise Optional.
7/2	Identity Key	[2] 10.7	C.2	☑	C.2: Mandatory IF GAP 26/3 "Resolvable private address generation procedure", otherwise Optional.

Table 8: Cross-Transport Key Derivation

Item	Capability	Reference	Support	Status	Comment

Serial Port Profile

Table 0: Major Versions (X.Y)

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

Table 1: Role Requirements

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

Table 2: Serial Port Service Support

Item	Capability	Reference	Support	Status	Comment

Table 3: Application Procedures

Item	Capability	Reference	Support	Status	Comment
3/1	Establish link and set up virtual serial connection	[1] 3.1	C.1	☑	C.1: Mandatory IF SPP 1/1 "Device A (DevA)" is supported, otherwise Optional.
3/2	Accept link and virtual serial connection establishment	[1] 3.1	C.2	☑	C.2: Mandatory IF SPP 1/2 "Device B (DevB)" is supported, otherwise Optional.
3/3	Register Service record for application in local SDP database	[1] 3.1	C.3	☑	C.3: Mandatory IF SPP 2/1b "SPP as a standalone profile – Device B (DevB)" is supported, otherwise Optional.

Table 4: SDP Dependencies

Prerequisite: SPP 2/1b "SPP as a standalone profile – Device B (DevB)"

Item	Capability	Reference	Support	Status	Comment

Item	Capability	Reference	Support	Status	Comment