



Project Details

Project Name	ESP32-PICO-V3-ZERO																	
Product Type	Controller Subsystem																	
TCRL Version:	TCRL 2019-2																	
Referenced Qualified Design(s)																		
Previously Qualified Design Used in this Qualification(s)	124871																	
Listing Date	2020-04-14																	
Declaration ID	D050108																	
Product Listing(s)	<table><thead><tr><th>Name</th><th>Website</th><th>Category</th><th>Publish Date</th><th>Model Number</th><th>Description</th></tr></thead><tbody><tr><td>2.4 GHz Wi-Fi/Bluetooth Module</td><td></td><td>Unique Products</td><td>4/14/2020 12:00:00 AM</td><td>ESP32-PICO-V3-ZERO</td><td>ESP32-PICO-V3-ZERO</td></tr></tbody></table>						Name	Website	Category	Publish Date	Model Number	Description	2.4 GHz Wi-Fi/Bluetooth Module		Unique Products	4/14/2020 12:00:00 AM	ESP32-PICO-V3-ZERO	ESP32-PICO-V3-ZERO
	Name	Website	Category	Publish Date	Model Number	Description												
2.4 GHz Wi-Fi/Bluetooth Module		Unique Products	4/14/2020 12:00:00 AM	ESP32-PICO-V3-ZERO	ESP32-PICO-V3-ZERO													
Member Company	Espressif Systems (Shanghai) Co., Ltd.																	
Declaring Member Contact / Listing Contact Person	Name																	
	Address																	
	City																	
	State																	
	Country																	
	Postal Code																	

Complete the Project and Submit Product(s) for Qualification

By typing my name or other symbol of my signature into the "Signature" field below, I agree on behalf of Espressif Systems (Shanghai) 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.
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Signature:

Huang Jian

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Effective Date: November 10th, 2017.

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- (b) contains one or more Portions; and
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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
21/14	Core Specification Version 4.2, Adopted 02 December 2014	Core 4.2	C.1	☑	C.1: Mandatory to support only one Controller Core Specification Version. IF 11/1 "End Product" OR 11/3 "Controller Subsystem" is Supported, Mandatory to Support only one Controller Core Spec version IF (11/4 "Component tested" OR 11/5 "Component non-tested") AND (BB OR LL OR LMP OR RF OR RF-PHY) is Supported, otherwise Excluded.
21/17	Core Erratum 10734 Pairing Updates. Adopted 16 July 2018	Erratum 10734	C.3	☑	C.3: Mandatory IF 21/14 "Core 4.2" OR 21/16 "Core 5.0" is Supported, otherwise Excluded. (Applicable as a separate item in addition to specifications adopted prior to this erratum, integrated in specifications adopted later)
21/19	Core Erratum 11838 Key Size Updates. Adopted 13 August 2019	Erratum 11838	C.4	☑	C.4: Mandatory IF 21/14 "Core 4.2" OR 21/16 "Core 5.0" OR 21/18 "Core 5.1" is Supported, otherwise Excluded. (Applicable as a separate item in addition to specifications adopted prior to this erratum, integrated in specifications adopted later)

Table 22: EDR Features

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

Table 31: Host Core Specification

Item	Capability	Reference	Support	Status	Comment
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Table 34: LE Host Specification Parts

Item	Capability	Reference	Support	Status	Comment
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Table 41: AMP Controller Core Specification

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

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

Item	Capability	Reference	Support	Status	Comment
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
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Product Type

Table 1: Product Types

Item	Capability	Reference	Support	Status	Comment
1/5	Controller Subsystem	Vol. 0 Part B	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support one and only one Product Type.

Table 2: Controller Core Configuration

Item	Capability	Reference	Support	Status	Comment
2/5	BR/EDR/LE Combined Controller	Vol. 0 Part B	C.1	<input checked="" type="checkbox"/>	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
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4.0 Host Controller Interface

Table 1a: IUT Configuration

Item	Capability	Reference	Support	Status	Comment
1a/4	LE Controller	[1] 1.0	C.0	<input checked="" type="checkbox"/>	C.0: Mandatory to support at least one of the defined IUT Configurations.

Table 1: -

Item	Capability	Reference	Support	Status	Comment
1/1	Command Complete event	[1] 7.7.14	M	<input checked="" type="checkbox"/>	
1/1d	Support all LE Controller commands	[1] 3.3, 7.7	O	<input checked="" type="checkbox"/>	
1/2	Command Status event	[1] 7.7.15	M	<input checked="" type="checkbox"/>	
1/3	Hardware Error event	[1] 7.7.16	O	<input checked="" type="checkbox"/>	

Table 2: -

Item	Capability	Reference	Support	Status	Comment
2/1	Reset command	[1] 7.3.2	M	<input checked="" type="checkbox"/>	

Table 3: -

Item	Capability	Reference	Support	Status	Comment
3/5	LE Read Buffer Size command [M]	[1] 7.8.2	M	<input checked="" type="checkbox"/>	

Table 4: -

Item	Capability	Reference	Support	Status	Comment
4/1	Read Local Version Information command	[1] 7.4.1	M	<input checked="" type="checkbox"/>	
4/2	Read Local Supported Commands command	[1] 7.4.2	M	<input checked="" type="checkbox"/>	
4/3	Read Local Supported Features command	[1] 7.4.3	M	<input checked="" type="checkbox"/>	
4/5	Read BD_ADDR command	[1] 7.4.6	M	<input checked="" type="checkbox"/>	
4/8	LE Read Local Supported Features command	[1] 7.8.3	M	<input checked="" type="checkbox"/>	
4/9	LE Read Supported States command	[1] 7.8.27	M	<input checked="" type="checkbox"/>	

Table 5: -

Item	Capability	Reference	Support	Status	Comment
5/13	LE Set Random Address command	[1] 7.8.4	C.1	☑	C.1: Mandatory IF RF PHY 1/1 "LE Transmitter" OR RF PHY 1/3 "LE Transceiver" is supported, otherwise Excluded.
5/14	LE Read White List Size command	[1] 7.8.14	M	☑	
5/15	LE Add Device To White List command	[1] 7.8.16	M	☑	
5/16	LE Clear White List command	[1] 7.8.15	M	☑	
5/17	LE Remove Device From White List command	[1] 7.8.17	M	☑	

Table 6: -

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 3/5 "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 TxPower command	[1] 7.8.6	C.97	☑	C.97: Mandatory IF LL 1/1 "Advertising State" is supported, otherwise Excluded.

Table 7: -

Item	Capability	Reference	Support	Status	Comment
7/5	Disconnect command	[1] 7.1.6	C.3a	☑	C.3a: Mandatory IF HCI 1a/1 "BR/EDR" OR HCI 1a/3 "AMP" OR LL 1/4 "Slave Role" OR LL 1/5 "Master Role" is supported, otherwise Excluded.
7/23	LE Create Connection command	[1] 7.8.12	C.3	☑	C.3: Mandatory IF LL 1/4 "Slave Role" OR LL 1/5 "Master Role" is supported, otherwise Excluded.
7/24	LE Create Connection Cancel command	[1] 7.8.13	C.3	☑	C.3: Mandatory IF LL 1/4 "Slave Role" OR LL 1/5 "Master Role" is supported, otherwise Excluded.
7/25	LE Connection Complete event	[1] 7.7.65.1	C.3	☑	C.3: Mandatory IF LL 1/4 "Slave Role" OR LL 1/5 "Master Role" is supported, otherwise Excluded.
7/26	Disconnection Complete event	[1] 7.7.5	C.3a	☑	C.3a: Mandatory IF HCI 1a/1 "BR/EDR" OR HCI 1a/3 "AMP" OR LL 1/4 "Slave Role" OR LL 1/5 "Master Role" is supported, otherwise Excluded.
7/27	LE Connection Update command	[1] 7.8.18	C.3	☑	C.3: Mandatory IF LL 1/4 "Slave Role" OR LL 1/5 "Master Role" 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 "Slave Role" OR LL 1/5 "Master Role" is supported, otherwise Excluded.

Table 8: -

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 "Slave Role" OR LL 1/5 "Master 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 "Slave Role" OR LL 1/5 "Master 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 "Slave Role" OR LL 1/5 "Master 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 "Slave Role" OR LL 1/5 "Master Role" is supported, otherwise Excluded.

Table 10: -

Item	Capability	Reference	Support	Status	Comment
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Table 13: -

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 1/4 "Slave Role" OR LL 1/5 "Master Role" is supported, otherwise Optional IF LL 3/9 "Extended Advertising" OR LL 9/33 (Isochronous Broadcaster) is supported, otherwise Excluded.

Table 14: -

Item	Capability	Reference	Support	Status	Comment
14/1	Host Buffer Size command	[1] 7.3.39	C.107	☑	C.107: Mandatory IF HCI 14/4 "Set Controller To Host Flow Control command" is supported, otherwise Excluded.
14/2	Set Event Mask command	[1] 7.3.1	M	☑	
14/4	Set Controller to Host Flow Control command	[1] 7.3.38	C.96a	☑	C.96a: Optional IF HCI 1a/1 "BR/EDR" OR HCI 1a/3 "AMP" OR LL 1/4 "Slave Role" OR LL 1/5 "Master Role" is supported, otherwise Excluded.
14/5	Host Number of Completed Packets command	[1] 7.3.40	C.107	☑	C.107: Mandatory IF HCI 14/4 "Set Controller To Host Flow Control command" 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" OR HCI 1a/3 "AMP" OR LL 1/4 "Slave Role" OR LL 1/5 "Master Role" is supported, otherwise Excluded.
14/13	Data Buffer Overflow event	[1] 7.7.26	O	☑	
14/14	LE Set Event Mask command	[1] 7.8.1	M	☑	

Table 15: -

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 "Slave Role" OR LL 1/5 "Master 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 "Slave Role" OR LL 1/5 "Master 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 "Slave Role" OR LL 1/5 "Master Role" is supported, otherwise Excluded.

Table 16: -

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.4	☑	C.4: Mandatory IF LL 9/1 "LE Encryption" is supported, otherwise Excluded.
16/35	LE Enable Encryption command	[1] 7.8.24	C.4	☑	C.4: Mandatory IF LL 9/1 "LE Encryption" is supported, otherwise Excluded.
16/36	LE Long Term Key Request event	[1] 7.7.65.5	C.4	☑	C.4: Mandatory IF LL 9/1 "LE Encryption" is supported, otherwise Excluded.
16/37b	Encryption Change event 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.4	☑	C.4: Mandatory IF LL 9/1 "LE Encryption" is supported, otherwise Excluded.

Table 17: -

Item	Capability	Reference	Support	Status	Comment
17/7	LE Receiver Test command [V]	[1] 7.8.28	C.2	☑	C.2: Mandatory IF RF PHY 1/2 "LE Receiver" OR RF PHY 1/3 "LE Transceiver" is supported, otherwise Excluded.
17/8	LE Transmitter Test command [V]	[1] 7.8.29	C.1	☑	C.1: Mandatory IF RF PHY 1/1 "LE Transmitter" OR RF PHY 1/3 "LE Transceiver" is supported, otherwise Excluded.
17/9	LE Test End command	[1] 7.8.30	M	☑	

Table 20: -

Item	Capability	Reference	Support	Status	Comment
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Baseband Conformance

Table 1: Physical Channel

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

Table 1a: Modulation

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

Table 2: Link Types

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

Table 3: SCO and eSCO Link Support

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

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

Table 3a: Profile Broadcast Data Link Support

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

Item	Capability	Reference	Support	Status	Comment
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Table 4: Common Packet Types

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

Table 5: ACL Packet Types

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

Table 5a: Enhanced Data Rate ACL Packet Types

Prerequisite: BB 2/4 "Support of Enhanced 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 (SUMICS 22/1 "EDR for asynchronous transports (single slot)" OR SUMICS 22/2 "EDR for asynchronous transports (multi-slot)") is supported; Optional IF BB 1a/2 "Enhanced Data Rate, 2 Mbps payload data rate" is supported; otherwise Excluded.
5a/2	2-DH3 packet type	[1] 6.5.4.9	C.2	☑	C.2: Mandatory IF SUMICS 22/2 "EDR for asynchronous transports (multi-slot)" is supported; Optional IF BB 1a/2 "Enhanced Data Rate, 2 Mbps payload data rate" is supported; otherwise Excluded.
5a/3	2-DH5 packet type	[1] 6.5.4.10	C.2	☑	C.2: Mandatory IF SUMICS 22/2 "EDR for asynchronous transports (multi-slot)" is supported; Optional IF BB 1a/2 "Enhanced Data Rate, 2 Mbps payload data rate" is supported; otherwise Excluded.
5a/4	3-DH1 packet type	[1] 6.5.4.11	C.3	☑	C.3: Mandatory IF (SUMICS 22/1 "EDR for asynchronous transports (single slot)" OR SUMICS 22/2 "EDR for asynchronous transports (multi-slot)") is supported; Optional IF BB 1a/3 "Enhanced Data Rate, 3 Mbps payload data rate" is supported; otherwise Excluded.
5a/5	3-DH3 packet type	[1] 6.5.4.12	C.4	☑	C.4: Mandatory IF SUMICS 22/2 "EDR for asynchronous transports (multi-slot)" is supported; Optional IF (BB 5a/2 "Support 2-DH3 packet type" AND BB 5a/4 "Support 3-DH1 packet type") are supported; otherwise Excluded.
5a/6	3-DH5 packet type	[1] 6.5.4.13	C.5	☑	C.5: Mandatory IF SUMICS 22/2 "EDR for asynchronous transports (multi-slot)" is supported; Optional IF (BB 5a/3 "Support 2-DH5 packet type" AND BB 5a/4 "Support 3-DH1 packet type") are supported; otherwise Excluded.

Table 6: SCO and eSCO Packet Types

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

Table 6a: Enhanced Data Rate eSCO Packet Types

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

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

Table 7: Page Procedures

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

Table 8: Paging Schemes

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

Table 9: Paging Modes

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

Table 9b: Paging Train Repetition

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

Table 9c: Synchronization Modes Support

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

Item	Capability	Reference	Support	Status	Comment
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Table 10: Inquiry Procedures

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

Table 11: Piconet Capabilities

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

Table 12: Scatternet Capabilities

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

Table 13: Synchronous Coding Schemes

Prerequisite: BB 2/2 "SCO link support"

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

Table 14: Erroneous Data Reporting

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

Table 16: Non-flushable Packet Boundary Flag

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

Table 17: Connection States

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

Table 18: Coarse Clock Adjust

Item	Capability	Reference	Support	Status	Comment
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Table 19: Slot Availability Mask

Item	Capability	Reference	Support	Status	Comment
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Host Controller Interface

Table 1a: IUT Configuration

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

Table 1: -

Item	Capability	Reference	Support	Status	Comment
1/1	Command Complete event	[1] 7.7.14	M	<input checked="" type="checkbox"/>	
1/2	Command Status event	[1] 7.7.15	M	<input checked="" type="checkbox"/>	

Table 2: -

Item	Capability	Reference	Support	Status	Comment
2/1	Reset command	[1] 7.3.2	M	<input checked="" type="checkbox"/>	

Table 3: -

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

Table 4: -

Item	Capability	Reference	Support	Status	Comment
4/1	Read Local Version Information command	[1] 7.4.1	M	<input checked="" type="checkbox"/>	
4/2	Read Local Supported Commands command	[1] 7.4.2	M	<input checked="" type="checkbox"/>	
4/3	Read Local Supported Features command	[1] 7.4.3	M	<input checked="" type="checkbox"/>	
4/4	Read Local Extended Features command	[1] 7.4.4	C.220	<input checked="" type="checkbox"/>	C.220: Mandatory IF LMP 11/4 "Extended Features" is supported, otherwise Excluded.
4/5	Read BD_ADDR command	[1] 7.4.6	M	<input checked="" type="checkbox"/>	

Table 5: -

Item	Capability	Reference	Support	Status	Comment
5/1	Read Local Name command	[1] 7.3.12	M	<input checked="" type="checkbox"/>	
5/2	Write Local Name command	[1] 7.3.11	M	<input checked="" type="checkbox"/>	
5/3	Read Class of Device command	[1] 7.3.25	M	<input checked="" type="checkbox"/>	
5/4	Write Class of Device command	[1] 7.3.26	M	<input checked="" type="checkbox"/>	
5/5	Read Number of Supported IAC command	[1] 7.3.43	C.125	<input checked="" type="checkbox"/>	C.125: Mandatory IF BB 10/2 "Inquiry Scan" is supported, otherwise Excluded.
5/6	Read Current IAC LAP command	[1] 7.3.44	C.125	<input checked="" type="checkbox"/>	C.125: Mandatory IF BB 10/2 "Inquiry Scan" is supported, otherwise Excluded.
5/7	Write Current IAC LAP command	[1] 7.3.45	C.125	<input checked="" type="checkbox"/>	C.125: Mandatory IF BB 10/2 "Inquiry Scan" 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: -

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	InquiryCancel 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" 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" 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" 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" 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" 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.
6/23	Inquiry Response Notification event	[2] 7.7.74	C.126	☑	C.126: Optional IF BB 10/2 "Inquiry Scan" is supported, otherwise Excluded.
6/24	Read Extended Inquiry Length command	[1] 7.3.98	C.113	☑	C.113: Mandatory IF HCI 6/25 "Write Extended Inquiry Length command" is supported, otherwise Excluded.
6/25	Write Extended Inquiry Length command	[1] 7.3.99	C.128	☑	C.128: Optional IF BB 10/1 "Inquiry" 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.
6/48	Inquiry Complete event	[1] 7.7.1	C.127	☑	C.127: Mandatory IF BB 10/1 "Inquiry" is supported, otherwise Excluded.

Table 7: -

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.3a	☑	C.3a: Mandatory IF HCI 1a/1 "BR/EDR" OR HCI 1a/3 "AMP" OR LL 1/4 "Slave Role" OR LL 1/5 "Master 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 Page Scan" is supported, otherwise Optional.
7/12	Read Connection Accept Timeout command	[1] 7.3.13	M	☑	
7/13	Write Connection Accept Timeout command	[1] 7.3.14	M	☑	
7/26	Disconnection Complete event	[1] 7.7.5	C.3a	☑	C.3a: Mandatory IF HCI 1a/1 "BR/EDR" OR HCI 1a/3 "AMP" OR LL 1/4 "Slave Role" OR LL 1/5 "Master 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: -

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 "Extended Features" 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 "Extended Features" 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: -

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" OR BB 2/3 "eSCO" 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" OR BB 2/3 "eSCO" 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" OR BB 2/3 "eSCO" is supported, otherwise Excluded.
9/4	Read Voice Setting command	[1] 7.3.27	C.134	☑	C.134: Mandatory IF BB 2/2 "SCO" OR BB 2/3 "eSCO" is supported, otherwise Excluded.
9/5	Write Voice Setting command	[1] 7.3.28	C.134	☑	C.134: Mandatory IF BB 2/2 "SCO" OR BB 2/3 "eSCO" is supported, otherwise Excluded.
9/6	SCO data via HCI	[1] 5.4.3	O	☑	
9/7	eSCO data via HCI	[1] 5.4.3	O	☑	
9/8	Write Default Erroneous Data Reporting command	[1] 7.3.65	C.135	☑	C.135: Optional IF BB 2/2 "SCO" OR BB 2/3 "eSCO" is supported, otherwise Excluded.
9/9	Read Default Erroneous Data Reporting command	[1] 7.3.64	C.112	☑	C.112: Mandatory IF HCI 9/8 "Write Default Erroneous Data Reporting command" 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" OR BB 2/3 "eSCO" is supported, otherwise Excluded.
9/11	Enhanced Accept Synchronous Connection	[1] 7.1.46	C.135	☑	C.135: Optional IF BB 2/2 "SCO" OR BB 2/3 "eSCO" is supported, otherwise

Request command	Excluded.
9/12 Synchronous Connection Complete event [1] 7.7.35 C.134 <input checked="" type="checkbox"/>	C.134: Mandatory IF BB 2/2 "SCO" OR BB 2/3 "eSCO" is supported, otherwise Excluded.
9/13 Synchronous Connection Changed event [1] 7.7.36 C.134 <input checked="" type="checkbox"/>	C.134: Mandatory IF BB 2/2 "SCO" OR BB 2/3 "eSCO" is supported, otherwise Excluded.

Table 10: -

Item	Capability	Reference	Support	Status	Comment
10/2	Sniff Mode command	[1] 7.2.2	C.214	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	C.132: Mandatory IF BB 5/2 "DM3" OR BB 5/3 "DH3" OR BB 5/4 "DM5" OR BB 5/5 "DH5" 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	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	C.133: Mandatory IF BB 5/2 "DM3" OR BB 5/3 "DH3" OR BB 5/4 "DM5" OR BB 5/5 "DH5" OR BB 6/2 "HV2" OR BB 6/3 "HV3" OR BB 2/4 "Enhanced Data Rate ACL links" is supported, otherwise Excluded.

Table 11: -

Item	Capability	Reference	Support	Status	Comment
11/1	Role Discovery command	[1] 7.2.7	O	<input checked="" type="checkbox"/>	
11/2	Switch Role command	[1] 7.2.8	C.212	<input checked="" type="checkbox"/>	C.212: Mandatory IF LMP 2/6 "Role Switch" is supported, otherwise Excluded.

Table 12: -

Item	Capability	Reference	Support	Status	Comment
12/1	Flow Specification command	[1] 7.2.13	M	<input checked="" type="checkbox"/>	
12/2	QoS Setup command	[1] 7.2.6	M	<input checked="" type="checkbox"/>	
12/3	Flush command	[1] 7.3.4	M	<input checked="" type="checkbox"/>	
12/4	Read Automatic Flush Timeout command	[1] 7.3.29	M	<input checked="" type="checkbox"/>	
12/5	Write Automatic Flush Timeout command	[1] 7.3.30	M	<input checked="" type="checkbox"/>	
12/6	Read Failed Contact Counter command	[1] 7.5.1	M	<input checked="" type="checkbox"/>	
12/7	Reset Failed Contact Counter command	[1] 7.5.2	M	<input checked="" type="checkbox"/>	
12/8	Read Num Broadcast Retransmissions command	[1] 7.3.31	C.118	<input checked="" type="checkbox"/>	C.118: Mandatory IF HCI 12/9 "Write Num Broadcast Retransmissions command" is supported, otherwise Excluded.
12/9	Write Num Broadcast Retransmissions command	[1] 7.3.32	O	<input checked="" type="checkbox"/>	
12/10	Enhanced Flush command	[1] 7.3.66	M	<input checked="" type="checkbox"/>	
12/17	Sniff Subrating command	[1] 7.2.14	C.221		C.221: Mandatory IF LMP 16/7 "Sniff subrating" 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" 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: -

Item	Capability	Reference	Support	Status	Comment
13/3	Read AFH Channel Assessment Mode command	[1] 7.3.53	C.140	☑	C.140: Mandatory IF LMP 26/1 "AFH master" OR LMP 26/6 "Support of Channel Classification", otherwise Excluded.
13/4	Write AFH Channel Assessment Mode command	[1] 7.3.54	C.140	☑	C.140: Mandatory IF LMP 26/1 "AFH master" OR LMP 26/6 "Support of Channel Classification", otherwise Excluded.
13/5	Set AFH Host Channel Classification command	[1] 7.3.46	C.140	☑	C.140: Mandatory IF LMP 26/1 "AFH master" OR LMP 26/6 "Support of Channel Classification", otherwise Excluded.
13/6	Change Connection Packet Type command	[1] 7.1.14	C.133	☑	C.133: Mandatory IF BB 5/2 "DM3" OR BB 5/3 "DH3" OR BB 5/4 "DM5" OR BB 5/5 "DH5" OR BB 6/2 "HV2" OR BB 6/3 "HV3" 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: -

Item	Capability	Reference	Support	Status	Comment
14/1	Host Buffer Size command	[1] 7.3.39	C.107	☑	C.107: Mandatory IF HCI 14/4 "Set Controller To Host Flow Control command" is supported, otherwise Excluded.
14/2	Set Event Mask command	[1] 7.3.1	M	☑	
14/4	Set Controller to Host Flow Control command	[1] 7.3.38	C.96a	☑	C.96a: Optional IF HCI 1a/1 "BR/EDR" OR HCI 1a/3 "AMP" OR LL 1/4 "Slave Role" OR LL 1/5 "Master Role" is supported, otherwise Excluded.
14/5	Host Number of Completed Packets command	[1] 7.3.40	C.107	☑	C.107: Mandatory IF HCI 14/4 "Set Controller To Host Flow Control command" is supported, otherwise Excluded.
14/6	Read Synchronous Flow Control Enable command	[1] 7.3.36	C.122	☑	C.122: Mandatory IF HCI 14/7 "Write Synchronous Flow Control Enable command" is supported, otherwise Excluded.
14/7	Write Synchronous Flow Control Enable command	[1] 7.3.37	C.135	☑	C.135: Optional IF BB 2/2 "SCO" OR BB 2/3 "eSCO" is supported, otherwise Excluded.
14/12	Number of Completed Packets event	[1] 7.7.19	C.3a	☑	C.3a: Mandatory IF HCI 1a/1 "BR/EDR" OR HCI 1a/3 "AMP" OR LL 1/4 "Slave Role" OR LL 1/5 "Master Role" is supported, otherwise Excluded.
14/13	Data Buffer Overflow event	[1] 7.7.26	O	☑	
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.153a: Mandatory IF HCI 1a/1 "BR/EDR" AND HCI 1a/4 "LE" is supported, otherwise Optional.

Table 15: -

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" OR BB 2/3 "eSCO" is supported, otherwise Excluded.
15/2a	Read Enhanced Transmit Power Level command	[1] 7.3.74	C.217	☑	C.217: Mandatory IF LMP 2/20 "Enhanced Power Control" 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 "AFH master" OR LMP 26/2 "AFH Slave" 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: -

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	☑	
16/10	Set Connection Encryption command	[1] 7.1.16	M	☑	
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	☑	
16/18	Create New Unit Key command	[1] 7.3.7	Core v.5.0 or earlier O	☑	
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	☑	
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 on BR/EDR	[1] 7.7.8	M	☑	
16/38a	Encryption Key Refresh	[1] 7.7.39	M	☑	

Complete event on BR/EDR					
16/40	Link Key Notification event	[1] 7.7.24	M	<input checked="" type="checkbox"/>	
16/45	Write Secure Connections Test Mode command	[1] 7.6.8	C.138	<input checked="" type="checkbox"/>	C.138: Mandatory IF LMP 2/26 "Secure Connections (Controller)" is supported, otherwise Optional IF BB 2/3 "eSCO" is supported, otherwise Excluded.
16/54	IO Capability Request event	[1] 7.7.40	M	<input checked="" type="checkbox"/>	
16/55	IO Capability Response event	[1] 7.7.41	M	<input checked="" type="checkbox"/>	
16/56	Link Key Request event	[1] 7.7.23	M	<input checked="" type="checkbox"/>	
16/60	Keypress Notification event	[1] 7.7.49	M	<input checked="" type="checkbox"/>	
16/61	PIN Code Request event	[1] 7.7.22	M	<input checked="" type="checkbox"/>	
16/62	Remote OOB Data Request event	[1] 7.7.44	M	<input checked="" type="checkbox"/>	
16/63	User Passkey Request event	[1] 7.7.43	M	<input checked="" type="checkbox"/>	
16/64	User Passkey Notification event	[1] 7.7.48	M	<input checked="" type="checkbox"/>	
16/65	User Confirmation Request event	[1] 7.7.42	M	<input checked="" type="checkbox"/>	
16/67	Simple Pairing Complete event	[1] 7.7.45	M	<input checked="" type="checkbox"/>	

Table 17: -

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

Table 18: -

Item	Capability	Reference	Support	Status	Comment
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Low Energy Link Layer

Table 9: Supported Features

Item	Capability	Reference	Support	Status	Comment
9/1	LE Encryption	[1] 4.6.1	O	<input checked="" type="checkbox"/>	
9/4	Extended Reject Indication	[1] 4.6.3	C.3	<input checked="" type="checkbox"/>	C.3: IF LL 9/3 "Connection Parameter Request Procedure" OR LL 9/14 "Connection CTE Request" OR LL 9/15 "Connection CTE Response" is supported; otherwise Optional.
9/5	Slave-initiated Features Exchange	[1] 4.6.4	O	<input checked="" type="checkbox"/>	

Table 10: Scatternet Capabilities

Item	Capability	Reference	Support	Status	Comment
10/1	Act as LE Master and LE Slave at the same time	[3] 1.1.1	O	<input checked="" type="checkbox"/>	
10/2	Act as LE Slave to more than one LE Master at the same time.	[3] 1.1.1	O	<input checked="" type="checkbox"/>	

Table 11: Protocol Synchronizing Features

Prerequisite: LL 1/3a "Synchronized State"

Item	Capability	Reference	Support	Status	Comment
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Table 1: Controller States/Roles

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

Table 12: Protocol Isochronous Broadcasting Features

Prerequisite: LL 1/6 "Isochronous Broadcasting State"

Item	Capability	Reference	Support	Status	Comment
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Table 2: Device Addresses Types

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

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

Table 3: Protocol Advertising Features

Prerequisite: LL 1/1 "Advertising State"

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

Table 4: Protocol Scanning Features

Prerequisite: LL 1/2 "Scanning State"

Item	Capability	Reference	Support	Status	Comment
4/1	Passive Scanning	[1] 4.4.3.1	C.1	☑	C.1: Mandatory IF GAP 5/2 "Observer" is supported; Optional IF GAP 5/4 "Central" is supported, otherwise Optional.
4/2	Receiving Advertising Data	[1] 4.4.3.1, 4.4.3.2	M	☑	
4/3	Active Scanning	[1] 4.4.3.2	C.2	☑	C.2: Mandatory IF GAP 5/4 "Central" AND NOT LL 4/1 "Passive Scanning" is supported; Optional IF (GAP 5/4 "Central" AND NOT LL 4/1 "Passive Scanning") OR GAP 5/2 "Observer" is supported; otherwise Optional.
4/4	Backoff Procedure	[1] 4.4.3.2	M	☑	
4/5	Filtering Policies	[1] 4.3.3	M	☑	

Table 5: Protocol Initiating Features

Prerequisite: LL 1/3 "Initiating State"

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

Table 6: Protocol Slave Role Features

Prerequisite: LL 1/4 “Slave Role”

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

Table 7: Protocol Master Role Features

Prerequisite: LL 1/5 “Master Role”

Item	Capability	Reference	Support	Status	Comment
7/1	Master Transmissions	[1] 4.5.1, 4.5.4, 4.5.6	M	☑	
7/2	Acknowledgement Scheme	[1] 4.5.9	M	☑	
7/3	Unknown Responses	[1] 5.1.4, 2.4.2	M	☑	
7/4	Requesting Feature Setup	[1] 5.1.4	M	☑	
7/5	Sending Data (Device supports data output from a Host)	[1] 4.5.1, 4.5.6	M	☑	
7/6	Receiving Data (Device supports data input to a Host)	[1] 4.5.1, 4.5.6	M	☑	
7/7	More Data	[1] 4.5.6	O	☑	
7/10	Requesting Parameter Update	[1] 5.1.1	M	☑	
7/11	Requesting Channel Map Update	[1] 5.1.2	M	☑	
7/12	Encryption Start	[1] 5.1.3	C.17	☑	C.17: Mandatory if LL 9/1 “LE Encryption”, otherwise Excluded.
7/13	Connection Control Timer	[1] 5.2	M	☑	
7/14	Sending Termination	[1] 5.1.6	M	☑	
7/15	Accepting Termination	[1] 5.1.6	M	☑	

7/16	Connection Supervision Timer	[1] 4.5.2	M	✓	
7/19	Master Pause Encryption	[1] 5.1.3	C.17	✓	C.17: Mandatory if LL 9/1 "LE Encryption", otherwise Excluded.
7/20	Master Version Exchange	[1] 5.1.5	M	✓	

Table 8: Physical Channels

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

Link Manager

Table 1: Response Messages

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

Table 2: Supported Features

Item	Capability	Reference	Support	Status	Comment
2/1	3-slot packets	[1] 3.3, 4.1.10	C.11	✓	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/2	5-slot packets	[1] 3.3, 4.1.10	C.11	✓	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/3	Encryption	[1] 3.3, 4.2.5	C.5	✓	C.5: Excluded IF LMP 2/21 "BR/EDR Not Supported" is supported, otherwise Mandatory.
2/4	Slot offset	[1] 3.3, 4.4.1	C.11	✓	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/5	Timing accuracy	[1] 3.3, 4.3.1	C.11	✓	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/6	Role switch (Master/Slave)	[1] 3.3, 4.4.2	C.11	✓	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/8	Sniff mode	[1] 3.3, 4.5.3	C.11	✓	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/10	Power Control	[1] 3.3, 4.1.3 [2] 3	C.1	✓	C.1: Mandatory IF RF 1/1 "Power Class 1" is supported; Excluded IF LMP 2/21 "BR/EDR Not Supported" is supported, otherwise Optional.
2/11	Channel quality driven data rate	[1] 3.3, 4.1.7	C.11	✓	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/12	SCO link	[1] 3.3, 4.6.1	C.11	✓	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/13	RSSI	[1] 3.3	C.11	✓	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/15	eSCO link	[1] 4.6.2	C.11	✓	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/16	Adaptive frequency hopping	[1] 4.1.4	C.11	✓	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/17	Enhanced Data Rate ACL	[3] 6.5.4 [1] 3.3	C.2	✓	C.2: Mandatory IF (SUMICS 22/1 "EDR for asynchronous transports (single slot)" OR SUMICS 22/2 "EDR for asynchronous transports (multi-slot)") is supported AND LMP 2/21 "BR/EDR Not Supported" is NOT supported; Excluded IF LMP 2/21 "BR/EDR Not Supported" is supported, otherwise Optional.
2/18	Enhanced Data Rate eSCO	[3] 6.5.3 [1] 3.3	C.3	✓	C.3: Mandatory IF SUMICS 22/4 "EDR for synchronous transports, CSA1 and 3.0 + HS or later" is supported AND LMP 2/21 "BR/EDR Not Supported" is NOT supported; Excluded IF LMP 2/21 "BR/EDR Not Supported" is supported, otherwise Optional.
2/19	Simple	[1] 4.2.7	C.4	✓	C.4: Mandatory IF LMP 2/21 "BR/EDR Not Supported" is NOT supported, otherwise Excluded.

Pairing (Host Support)					
2/19a	Simple Pairing Updates	[6] [7] 4.2.7.4	C.16	<input checked="" type="checkbox"/>	C.16: Mandatory IF LMP 2/19 "Simple Pairing" is supported, otherwise Excluded.
2/20	Enhanced Power Control	[1] 3.3, 4.1.3.1	C.6	<input checked="" type="checkbox"/>	C.6: Excluded IF LMP 2/21 "BR/EDR Not Supported" is supported, Optional IF LMP 2/10 "Power Control" AND LMP 2/13 "RSSI" are supported.

Table 3: Authentication

Item	Capability	Reference	Support	Status	Comment
3/1	Initiate authentication before connection completed	[1] 4.2.1	O	<input checked="" type="checkbox"/>	
3/2	Initiate authentication after connection completed	[1] 4.2.1	O	<input checked="" type="checkbox"/>	
3/3	Respond to authentication request	[1] 4.2.1	M	<input checked="" type="checkbox"/>	

Table 4: Pairing

Item	Capability	Reference	Support	Status	Comment
4/1	Initiate pairing before connection completed	[1] 4.4.2	O	<input checked="" type="checkbox"/>	
4/2	Initiate pairing after connection completed	[1] 4.4.2	O	<input checked="" type="checkbox"/>	
4/3	Respond to pairing request	[1] 4.2.2.1, 4.2.2.3	M	<input checked="" type="checkbox"/>	
4/4	Use fixed PIN and request responder to initiator switch	[1] 4.2.2.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one of LMP 4/4 "Use fixed PIN and request responder to initiator switch" OR LMP 4/5 "Use variable PIN".
4/5	Use variable PIN	[1] 4.2.2.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one of LMP 4/4 "Use fixed PIN and request responder to initiator switch" OR LMP 4/5 "Use variable PIN".
4/6	Accept initiator to responder switch	[1] 4.2.2.2	C.2	<input checked="" type="checkbox"/>	C.2: Mandatory IF LMP 4/5 "Use variable PIN" AND (LMP 4/1 "Initiate pairing before connection completed" OR LMP 4/2 "Initiate pairing after connection completed") is supported.
4/7	TSPC_Change_of_IO_Capabilities	[1] 4.2.7.3.4	M	<input checked="" type="checkbox"/>	

Table 5: Link Keys

Item	Capability	Reference	Support	Status	Comment
5/2	Creation of link key - Combination Key	[1] 4.2.2.4	M	<input checked="" type="checkbox"/>	
5/3	Initiate change of link key	[1] 4.2.3	O	<input checked="" type="checkbox"/>	
5/4	Accept change of link key	[1] 4.2.3	M	<input checked="" type="checkbox"/>	

Table 6: Encryption

Prerequisite: LMP 2/3 "Encryption supported"

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

Table 7: Clock Offset Information

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

Table 8: Slot Offset Information

Prerequisite: LMP 2/4 "Slot offset"

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

Table 9: Timing Accuracy Information

Prerequisite: LMP 2/5 "Timing Accuracy"

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

Table 10: LM Version Information

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

Table 11: Feature Support

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

Table 12: Name Information

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

Table 13: Role Switch

Prerequisite: LMP 2/6 "Role switch"

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

Table 14: Detach

Item	Capability	Reference	Support	Status	Comment
14/1	Detach connection	[1] 4.1.2	M	<input checked="" type="checkbox"/>	

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

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

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

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

Table 15: Hold Mode

Prerequisite: LMP 2/7 "Hold mode"

Item	Capability	Reference	Support	Status	Comment
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Table 16: Sniff Mode

Prerequisite: LMP 2/8 "Sniff mode"

Item	Capability	Reference	Support	Status	Comment
16/2	Request sniff mode	[1] 4.5.3, 4.5.3.2	O	<input checked="" type="checkbox"/>	
16/3	Respond to sniff mode requests (renegotiate or reject)	[1] 4.5.3.2	M	<input checked="" type="checkbox"/>	
16/5	Request un-sniff	[1] 4.5.3.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory IF LMP 16/2 "Request sniff mode" is supported, otherwise Optional.
16/6	Accept un-sniff requests	[1] 4.5.3.2	M	<input checked="" type="checkbox"/>	
16/7	Sniff Subrating Mode	[1] 4.5.3.2	M	<input checked="" type="checkbox"/>	

Table 18: Power Control

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

Table 19: Link Supervision Timeout

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

Table 20: Quality of Service

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

Table 21: SCO Links

Prerequisite: LMP 2/12 "SCO link"

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

Table 22: Multi-Slot Packets

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

Table 23: Paging Scheme

Item	Capability	Reference	Support	Status	Comment
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Table 24: Connection Establishment

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

Table 25: Test Mode

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

Table 26: Adaptive Frequency Hopping

Prerequisite: LMP 2/16 “AFH”

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

Table 27: Ping

Prerequisite: LMP 2/27 “Ping”

Item	Capability	Reference	Support	Status	Comment
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Table 28: Coarse Clock Adjustment

Prerequisite: LMP 2/28 “Support of Coarse Clock Adjustment”

Item	Capability	Reference	Support	Status	Comment
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Table 29: Slot Availability Mask

Prerequisite: LMP 2/29 “Slot Availability Mask”

Item	Capability	Reference	Support	Status	Comment
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Radio

Table 1: RF Capabilities

Item	Capability	Reference	Support	Status	Comment
1/2	Power Class = 2	RF, 3	C.5	☑	C.5: At least one of 1/1 (Power Class 1) OR 1/2 (Power Class 2) OR 1/3 (Power Class 3) shall be supported.
1/4	Power Control	RF, 3	C.1	☑	C.1: Mandatory if 1/1 is supported, otherwise Optional.
1/5	1-slot packets supported	BB, 6.5	M	☑	
1/6	3-slot packets supported	BB, 6.5	O	☑	
1/7	5-slot packets supported	BB, 6.5	O	☑	
1/8	79 Channels	RF, 2	M	☑	
1/9	Support for GFSK modulation	RF, 3.1	M	☑	
1/10	Support for pi/4-DQPSK modulation	RF, 3.2	C.2	☑	C.2: Mandatory if (SUMICS 22/1 or 22/2 or 22/3 or 22/4) is supported, otherwise Excluded.
1/11	Support for 8DPSK modulation	RF, 3.3	C.3	☑	C.3: Mandatory if (SUMICS 22/1 or 22/2 or 22/3) is supported; Optional if (SUMICS 22/4) is supported, otherwise Excluded.
1/12	Enhanced Power Control	RF, 3	C.4	☑	C.4: Optional if Core Specification 3.0 or later and 1/4 is supported, otherwise Excluded.

Low Energy RF PHY

Table 1: Bluetooth LE RF Capabilities

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

Table 2: Bluetooth LE Test Interface Capabilities

Item	Capability	Reference	Support	Status	Comment
2/1	HCI Test Interface	[2]2	C.1	<input checked="" type="checkbox"/>	C.1: At least one of the capabilities shall be supported.