



Project Details

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Project Name	CC6UL Bluetooth Controller Subsystem Qualification
Product Type	Controller Subsystem
TCRL Version:	TCRL 2017-1
Referenced Qualified Design(s)	
Previously Qualified Design Used in this Qualification(s)	81685
Listing Date	2017-10-25
Declaration ID	D037484

Product Listing(s)	Product Listing(s)					
	Name	Website	Category	Publish Date	Model Number	Description
	ConnectCore 6UL SoM	www.digi.com	Unique Products	10/25/2017 12:00:00 AM	CC-WMX-JN58-NE	The ConnectCore 6UL module delivers a secure and extremely cost-effective connected System-on-Module platform that is slightly bigger than a postage stamp. Its patent-pending Digi SMTplus™ surface mount form factor allows you to choose simplified design integration leveraging proven and easy-to-use edge-castellated SMT technology, or a versatile LGA option for ultimate design flexibility with access to virtually all interfaces. Built on the NXP i.MX6UL UltraLite application processor, the module is the intelligent communication engine for today's secure connected devices. It seamlessly integrates dual-Ethernet and pre-certified dual-band Wi-Fi (802.11a/b/g/n/ac) with Bluetooth 4.2 connectivity. Embedded device security is a critical design aspect for the growing number of connected applications ("IoT") and the ConnectCore 6UL removes the implementation barriers by providing you with Digi TrustFence, a fully integrated secure module platform with complete Linux software support.
	ConnectCore 6UL SoM	www.digi.com	Unique Products	10/25/2017 12:00:00 AM	CC-WMX-JN7A-NE	The ConnectCore 6UL module delivers a secure and extremely cost-effective connected System-on-Module platform that is slightly bigger than a postage stamp. Its patent-pending Digi SMTplus™ surface mount form factor allows you to choose simplified design integration leveraging proven and easy-to-use edge-castellated SMT technology, or a versatile LGA option for ultimate design flexibility with access to virtually all interfaces. Built on the NXP i.MX6UL UltraLite application processor, the module is the intelligent communication engine for today's secure connected devices. It seamlessly integrates dual-Ethernet and pre-certified dual-band Wi-Fi (802.11a/b/g/n/ac) with Bluetooth 4.2 connectivity. Embedded device security is a critical design aspect for the growing number of connected applications ("IoT") and the ConnectCore 6UL removes the implementation barriers by providing you with Digi TrustFence, a fully integrated secure module platform with complete Linux software support.
	ConnectCore 6 Plus SoM	www.digi.com	Unique Products	1/24/2018 12:00:00 AM	CC-SB-WMX-KK8D	ConnectCore 6 QuadPlus SBC, i.MX6QuadPlus, Industrial, 1 GHz, -40 to 85°C, 8 GB flash, 2 GB DDR3, Microcontroller Assist (MKL14Z32VFT4), 802.11a/b/g/n/ac, Bluetooth 4.2, Gigabit Ethernet, Secure Element

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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 Digi International Inc (R) ("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:

BLUETOOTH[®] LAUNCH STUDIO TERMS OF USE

Effective Date: November 10th, 2017.

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

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

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

1. MEMBERSHIP ACCOUNT REQUIREMENT.

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

2. BLUETOOTH QUALIFICATION PROCESS.

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

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

3. REPRESENTATIONS AND ACKNOWLEDGEMENTS.

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

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

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

4. FEES AND PAYMENT TERMS.

(a) Bluetooth SIG may charge you fees in connection with your use of the Launch Studio Tool and Submissions (e.g., for declaration IDs, etc.). The type and amount of fees may change at any time. You agree that Member will pay all fees required by Bluetooth SIG in accordance with the instructions provided within the Launch Studio Tool. Bluetooth SIG may accept credit card payments or, if offered within the Launch Studio Tool, may permit you to pay fees offline. If you choose to pay offline, you will pay the invoice issued to you by Bluetooth SIG, according to the terms stated in the invoice. If you provide credit card payment information, you agree that Bluetooth SIG or its third party payment processor may charge your credit card immediately. You acknowledge that, until Bluetooth SIG has processed your payment and received the funds: you will not be entitled to receive or be permitted to use any item purchased (e.g., declaration ID). Except as set forth in Section 4(c) below, all sales are final and all payments are non-refundable.

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

(c) If you have purchased declaration IDs and have not used them and you would like to request a refund, you may click this [contact us](#) link and submit a request to return the declaration IDs. All refunds processed by Bluetooth SIG will be made less a 10% processing fee. Declaration IDs purchased from Bluetooth SIG are non-transferable and may not be transferred to another member.

5. CONFIDENTIALITY OF SUBMISSIONS.

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

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

(b) the test plan and test evidence provided as part of your Submission will continue to be treated as Member Confidential Information for the period of time required under the Bluetooth SIG Confidentiality Policy regardless of any listing date or publish date in the Submission. To the extent that this Section conflicts with the Bluetooth SIG Confidentiality Policy, this Section supersedes the Bluetooth SIG Confidentiality Policy with respect to Bluetooth SIG's obligations of confidentiality of Submissions.

6. RECORD KEEPING AND AUDIT.

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

7. ADDITIONAL DISCLAIMERS.

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

Appendix A

Summary ICS

Table 21: Controller Configuration Specification Version

Item	Capability	System Spec Reference	Support	Status	Comment
21/14	Core Specification Version 4.2, Adopted 02 December 2014	Core 4.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support only one Controller Core Specification Version.

Table 24: BR/EDR Controller Electrical Interfaces

Item	Capability	System Spec Reference	Support	Status	Comment
24/1	UART Transport Layer	Vol. 4, Part A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
24/2	USB Transport Layer	Vol. 4, Part B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Table 31: Host Configuration Specification Version

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 33: Core Host Electrical Interfaces

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

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 41: AMP Controller Specification Version

Prerequisite: SUM ICS 21/13 or SUM ICS 21/14 or SUM ICS 21/16 or SUM ICS 21/5 or SUM ICS 21/6 or SUM ICS 21/8 or SUM ICS 21/9

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

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 43: AMP Controller Electrical Interfaces

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

Prerequisite: SUM ICS 21/13 or SUM ICS 21/14 or SUM ICS 21/16 or SUM ICS 21/9

Item	Capability	System Spec Reference	Support	Status	Comment
51/1	Low Energy Controller	Core 4.0	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory if PROD 2/4 or 2/5 or 2/6 is supported, otherwise Excluded.

Table 52: Low Energy Host Core Specification

Prerequisite: SUM ICS 31/10 or SUM ICS 31/11 or SUM ICS 31/15 or SUM ICS 31/16 or SUM ICS 31/17 or SUM ICS 31/18 or SUM ICS 31/19

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 22: EDR Features

Prerequisite: SUM ICS 21/13 or SUM ICS 21/14 or SUM ICS 21/16 or SUM ICS 21/4 or SUM ICS 21/6 or SUM ICS 21/8 or SUM ICS 21/9

Item	Capability	System	Support	Status	Comment
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		Spec Reference			
22/1	EDR for asynchronous transports (single slot)	Core 2.0+EDR and later	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one if +EDR (21/4 or 21/6) is supported; Mandatory to support at least one if +HS (41/1 or 41/2) is supported, otherwise Optional
22/2	EDR for asynchronous transports (multi-slot)	Core 2.0+EDR and later	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one if +EDR (21/4 or 21/6) is supported; Mandatory to support at least one if +HS (41/1 or 41/2) 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.2	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one if +EDR (21/4 or 21/6) is supported; Mandatory to support at least one if +HS (41/1 or 41/2) is supported, otherwise Optional C.2: Optional if CSA1 or later is supported, otherwise Excluded.

Product Type

Table 1: Product Types

Item	Capability	System Spec Reference	Support	Status	Comment
1/5	Controller Subsystem	N/A	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support one and only one Product Type.

Table 2: Controller Core Configuration

Prerequisite: PROD 1/1 or PROD 1/2 or PROD 1/3 or PROD 1/5

Item	Capability	System Spec 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

Prerequisite: PROD 1/1 or PROD 1/2 or PROD 1/3 or PROD 1/4

Item	Capability	System Spec Reference	Support	Status	Comment
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Radio

Table 1: RF Capabilities

Item	Capability	System Spec Reference	Support	Status	Comment
1/1	Power Class = 1	RF, 3	C.5	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	C.1: Mandatory if 1/1 is supported, otherwise Optional.
1/5	1-slot packets supported	BB, 6.5	M	<input checked="" type="checkbox"/>	
1/6	3-slot packets supported	BB, 6.5	O	<input checked="" type="checkbox"/>	
1/7	5-slot packets supported	BB, 6.5	O	<input checked="" type="checkbox"/>	
1/8	79 Channels	RF, 2	M	<input checked="" type="checkbox"/>	
1/9	Support for GFSK modulation	RF, 3.1	M	<input checked="" type="checkbox"/>	
1/10	Support for pi/4-DQPSK modulation	RF, 3.2	C.2	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	C.4: Optional if Core Specification 3.0 or later and 1/4 is supported, otherwise Excluded.

Baseband Conformance

Table 1: Physical Channel

Item	Capability	System Spec Reference	Support	Status	Comment
1/1	Support frequency band and 79 RF channels	BB, 2.1	M	<input checked="" type="checkbox"/>	
1/2	Adaptive Frequency Hopping Kernel	BB, 2.6	M		

**Table 1a: Modulation Schemes**

Item	Capability	System Spec Reference	Support	Status	Comment
1a/1	Basic Data Rate, 1 Mbps payload data rate	RF, 3.1	M	<input checked="" type="checkbox"/>	
1a/2	Enhanced Data Rate, 2 Mbps payload data rate	RF, 3.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory if (SUMICS 22/1 or 22/2 or 22/3 or 22/4) is supported, otherwise Excluded.
1a/3	Enhanced Data Rate, 3 Mbps payload data rate	RF, 3.2	C.2	<input checked="" type="checkbox"/>	C.2: Mandatory IF (SUMICS 22/1 (“EDR for asynchronous transports (single slot)”) OR SUMICS 22/2 (“EDR for asynchronous transports (multi-slot)”) OR SUMICS 22/3 (“EDR for synchronous transports”)”) is supported; Optional if IF SUMICS 22/4 (“EDR for synchronous transports, CSA1 and 3.0+HS or later”) is supported, otherwise Excluded.

Table 2: Link Types

Item	Capability	System Spec Reference	Support	Status	Comment
2/1	Support of ACL link	BB, 5.2	M	<input checked="" type="checkbox"/>	
2/2	Support of SCO link	BB, 5.4	O	<input checked="" type="checkbox"/>	
2/3	Support of eSCO link	BB, 4.3	O	<input checked="" type="checkbox"/>	
2/4	Support of Enhanced Data Rate ACL links	BB, 6.5.4	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory if (SUMICS 22/1 or 22/2) is supported, otherwise Optional.
2/5	Support of Enhanced Data Rate eSCO links	BB, 6.5.3	C.2	<input checked="" type="checkbox"/>	C.2: Mandatory if (SUMICS 22/3 or 22/4) is supported otherwise Excluded.
2/7	ACL with AES-CCM and MIC	[4] 8.3.2	C.4	<input checked="" type="checkbox"/>	C.4: Mandatory if LMP 2/26 is supported, otherwise Excluded.
2/8	eSCO with AES-CCM	[4] 8.3.1	C.5	<input checked="" type="checkbox"/>	C.5: Mandatory if LMP 2/26 and BB 2/3 is supported, otherwise Excluded.

Table 3: SCO Link Support

Item	Capability	System Spec Reference	Support	Status	Comment	Value
3/1	SCO links to same Slave	BB, 4.3	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one SCO link type if BB 2/2 is supported.	
3/2	SCO links to different Slaves	BB, 4.3	C.3	<input checked="" type="checkbox"/>	C.3: Optional if BB 2/2 is supported, otherwise Excluded.	
3/3	SCO links from same Master	BB, 4.3	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one SCO link type if BB 2/2 is supported.	
3/5	eSCO links to same Slave	BB, 4.2	C.2	<input checked="" type="checkbox"/>	C.2: Mandatory to support at least one eSCO link type if BB 2/3 is supported.	
3/7	eSCO links from same Master	BB, 4.2	C.2	<input checked="" type="checkbox"/>	C.2: Mandatory to support at least one eSCO link type if BB 2/3 is supported.	

Table 3a: Profile Broadcast Data Link Support

Prerequisite: BB 2/6

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

Item	Capability	System Spec Reference	Support	Status	Comment
4/1	Support of ID packet type	BB, 6.5.1 BB,6.5.1.1	M	<input checked="" type="checkbox"/>	
4/2	Support of NULL packet type	BB, 6.5.1 BB, 6.5.1.2	M	<input checked="" type="checkbox"/>	

4/3	Support of POLL packet type	BB, 6.5.1 BB, 6.5.1.3	M	☑	
4/4	Support of FHS packet type	BB, 6.5.1 BB,6.5.1.4	M	☑	
4/5	Support of DM1 packet type	BB, 6.5.1 BB, 6.5.1.5 BB, 6.5.4 BB, 6.5.4.1	M	☑	

Table 5: ACL Packet Types

Item	Capability	System Spec Reference	Support	Status	Comment
5/1	Support of DH1 packet type	BB, 6.5.4 BB,6.5.4.2	M	☑	
5/2	Support of DM3 packet type	BB, 6.5.4 BB,6.5.4.3	C.1	☑	C.1: Mandatory if (9c/1 or 9c/2) is supported, otherwise Optional.
5/3	Support of DH3 packet type	BB, 6.5.4 BB,6.5.4.4	O	☑	
5/4	Support of DM5 packet type	BB, 6.5.4 BB,6.5.4.5	O	☑	
5/5	Support of DH5 packet type	BB, 6.5.4 BB,6.5.4.6	O	☑	
5/6	Support of AUX1 packet type	BB, 6.5.4 BB,6.5.4.7	O	☑	

Table 5a: Enhanced Data Rate ACL Packet Types

Prerequisite: BB 2/4

Item	Capability	System Spec Reference	Support	Status	Comment
5a/1	Support 2-DH1 packet type	BB, 6.5.4.8	C.1	☑	C.1: Mandatory if (SUMICS 22/1 or 22/2) is supported, otherwise Optional if (BB 1a/2) is supported.
5a/2	Support 2-DH3 packet type	BB, 6.5.4.9	C.2	☑	C.2: Mandatory if (SUMICS 22/2) is supported, otherwise Optional if (BB 1a/2) is supported.
5a/3	Support 2-DH5 packet type	BB, 6.5.4.10	C.2	☑	C.2: Mandatory if (SUMICS 22/2) is supported, otherwise Optional if (BB 1a/2) is supported.
5a/4	Support 3-DH1 packet type	BB, 6.5.4.11	C.3	☑	C.3: Mandatory if (SUMICS 22/1 or 22/2) is supported, otherwise Optional if (BB 1a/3) is Supported.
5a/5	Support 3-DH3 packet type	BB, 6.5.4.12	C.4	☑	C.4: Mandatory if (SUMICS 22/2) is supported, otherwise Optional if (BB 5a/2 and 5a/4) are supported.
5a/6	Support 3-DH5 packet type	BB, 6.5.4.13	C.5	☑	C.5: Mandatory if (SUMICS 22/2) is supported, otherwise Optional if (BB 5a/3 and 5a/4) are supported.

Table 6: SCO and eSCO Packet Types

Item	Capability	System Spec Reference	Support	Status	Comment
6/1	Support of HV1 packet type	BB, 6.5.2 BB,6.5.2.1	C.1	☑	C.1: Mandatory if BB 2/2 is supported, otherwise Excluded.
6/2	Support of HV2 packet type	BB, 6.5.2 BB,6.5.2.2	C.2	☑	C.2: Optional if BB 2/2 is supported, otherwise Excluded.
6/3	Support of HV3 packet type	BB, 6.5.2 BB,6.5.2.3	C.2	☑	C.2: Optional if BB 2/2 is supported, otherwise Excluded.
6/4	Support of DV packet type	BB, 6.5.2 BB,6.5.2.4	C.1	☑	C.1: Mandatory if BB 2/2 is supported, otherwise Excluded.
6/5	Support of EV3 packet type	BB, 6.5.3 BB,6.5.3.1	C.3	☑	C.3: Mandatory if BB 2/3 is supported, otherwise Excluded.

Table 6a: Enhanced Data Rate eSCO Packet Types

Item	Capability	System Spec Reference	Support	Status	Comment
6a/1	Support 2-EV3 packet type	BB, 6.5.3.4	C.1	☑	C.1: Mandatory if (SUMICS 22/3) is supported, otherwise Optional if (BB 1a/2) is supported.

Table 7: Page Procedures

Item	Capability	System Spec Reference	Support	Status	Comment
7/1	Support paging	BB, 8.3.2	M	☑	
7/2	Support page scan	BB, 8.3.1	M	☑	
7/5	Supports Interlaced Scan during page scan	BB, 2.4	O	☑	

Table 8: Paging Schemes

Item	Capability	System Spec Reference	Support	Status	Comment
8/1	Supports mandatory scan mode	BB, 8.3 BB, table 6.5	M	<input checked="" type="checkbox"/>	

Table 9: Paging Modes

Item	Capability	System Spec Reference	Support	Status	Comment
9/1	Supports paging mode R0	BB, 8.3.1 BB, table 8.1	C.1	<input checked="" type="checkbox"/>	C.1: At least one of 9/1-3 is Mandatory.
9/2	Supports paging mode R1	BB, 8.3.1 BB, table 8.1	C.1	<input checked="" type="checkbox"/>	C.1: At least one of 9/1-3 is Mandatory.
9/3	Supports paging mode R2	BB, 8.3.1 BB, table 8.1	C.1	<input checked="" type="checkbox"/>	C.1: At least one of 9/1-3 is Mandatory.

Table 9b: Paging Train Repetition

Item	Capability	System Spec Reference	Support	Status	Comment
9b/1	Supports Npage >= 1	BB, 8.3.2 BB, table 8.2	O	<input checked="" type="checkbox"/>	
9b/2	Supports Npage >= 128	BB, 8.3.2 BB, table 8.2	O	<input checked="" type="checkbox"/>	
9b/3	Supports Npage >= 256	BB, 8.3.2 BB, table 8.2	M	<input checked="" type="checkbox"/>	

Table 9c: Synchronization Modes Support

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 10: Inquiry Procedures

Item	Capability	System Spec Reference	Support	Status	Comment
10/1	Support inquiry	BB, 8.4.2	O	<input checked="" type="checkbox"/>	
10/2	Inquiry scan with first FHS	BB, 8.4.2	O	<input checked="" type="checkbox"/>	
10/5	Supports the dedicated inquiry access code	BB, 6.3.1	O	<input checked="" type="checkbox"/>	
10/6	Supports interlaced Scan during inquiry scan	BB, 2.5	O	<input checked="" type="checkbox"/>	
10/7	Extended Inquiry Response	BB, 8.4.2, BB 8.4.3	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory if (GAP 1/3) and (Core Spec 2.1 or later), otherwise Optional. Excluded if (Core Spec 2.0) is supported.

Table 11: Piconet Capabilities

Item	Capability	System Spec Reference	Support	Status	Comment	Value
11/1	Broadcast messages	BB, 7.6.1 BB, 7.6.5	O	<input checked="" type="checkbox"/>		
11/2	Point-to-multipoint connections	BB, 1	O	<input checked="" type="checkbox"/>		

Table 12: Scatternet Capabilities

Item	Capability	System Spec Reference	Support	Status	Comment
12/1	Act as Master in one piconet and Slave in another piconet	BB, 1	O	<input checked="" type="checkbox"/>	
12/2	Act as Slave in more than one piconet	BB, 1	O	<input checked="" type="checkbox"/>	

Table 13: Synchronous Coding Schemes

Prerequisite: BB 2/2

Item	Capability	System Spec Reference	Support	Status	Comment
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13/1	A-law	BB, 9.1	O	<input checked="" type="checkbox"/>
13/2	u-law	BB, 9.1	O	<input checked="" type="checkbox"/>
13/3	CVSD	BB, 9.2	O	<input checked="" type="checkbox"/>
13/4	Transparent Synchronous Data	BB, 5.4 BB, 5.5	O	<input checked="" type="checkbox"/>

Table 14: Erroneous Data Reporting

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 15: This table is intentionally left blank: DO NOT USE

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 16: Non-flushable Packet Boundary Flag

Prerequisite: SUM ICS 21/13 or SUM ICS 21/14 or SUM ICS 21/16 or SUM ICS 21/5 or SUM ICS 21/6 or SUM ICS 21/8 or SUM ICS 21/9

Item	Capability	System Spec Reference	Support	Status	Comment
16/1	Support Non-flushable Packet Boundary Flag	Vol 2, Part B, Section 7.6.3	C.1	<input checked="" type="checkbox"/>	C.1 Mandatory if (Core Spec 2.1 or later) and (HCI 12/1) is supported, otherwise optional. Excluded if (Core Spec 2.0) is supported.

Table 17: Connection States

Prerequisite: SUM ICS 21/13 or SUM ICS 21/14 or SUM ICS 21/16 or SUM ICS 21/5 or SUM ICS 21/6 or SUM ICS 21/8 or SUM ICS 21/9

Item	Capability	System Spec Reference	Support	Status	Comment
17/1	Sniff Subrating Mode	Vol 2, Part C, Section 4.5.3.3	C.1	<input checked="" type="checkbox"/>	C.1 Mandatory if (Core Spec 2.1 or later) and (LMP 2/8) is supported, otherwise optional. Excluded if (Core Spec 2.0) is supported.

Table 18: Coarse Clock Adjust

Item	Capability	System Spec Reference	Support	Status	Comment
18/1	Coarse Clock Adjustment	[4] 8.6.10.1	O	<input checked="" type="checkbox"/>	

Link Manager

Table 1: Response Messages

Item	Capability	System Spec Reference	Support	Status	Comment
1/1	Accept message	LMP, 2.7	M	<input checked="" type="checkbox"/>	
1/2	Reject message	LMP, 2.7	M	<input checked="" type="checkbox"/>	

Table 2: Supported Features

Item	Capability	System Spec Reference	Support	Status	Comment
2/1	3-slot packets	LMP, 4.1.10, LMP, 3.3	C.11	<input checked="" type="checkbox"/>	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/2	5-slot packets	LMP, 4.1.10, LMP, 3.3	C.11	<input checked="" type="checkbox"/>	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/3	Encryption	LMP, 4.2.5, LMP, 3.3	C.5	<input checked="" type="checkbox"/>	C.5: Optional IF (SUM ICS 21/1 OR SUM ICS 21/2 OR SUM ICS 21/3 "(Core Specification 2.0)" OR SUM ICS 21/4 "(2.0+EDR)") is supported; Excluded IF LMP 2/21 "(BR/EDR Not Supported)" is supported, otherwise Mandatory.
2/4	Slot offset	LMP, 4.4.1, LMP, 3.3	C.11	<input checked="" type="checkbox"/>	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/5	Timing accuracy	LMP, 4.3.1, LMP, 3.3	C.11	<input checked="" type="checkbox"/>	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.

2/6	Role switch (Master/Slave)	LMP,4.4.2, LMP, 3.3	C.11	☑	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/7	Hold mode	LMP,4.5.1, LMP, 3.3	C.11	☑	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/8	Sniff mode	LMP,4.5.3, LMP, 3.3	C.11	☑	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/10	Power Control	RF, 3 LMP, 4.1.3, LMP, 3.3	C.1	☑	C.1: Mandatory IF Power Class 1 is supported (RF, 1/1=1); Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/11	Channel quality driven data rate	LMP, 4.1.7, LMP, 3.3	C.11	☑	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/12	SCO link	LMP, 4.6.1, LMP, 3.3	C.11	☑	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/13	RSSI	LMP, 3.3	C.11	☑	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/14	Broadcast encryption	LMP, 4.2.5, LMP, 3.3	C.11	☑	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.
2/15	eSCO link	LMP, 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	LMP, 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	BB, 6.5.4 LMP, 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, otherwise Excluded.
2/18	Enhanced Data Rate eSCO	BB, 6.5.3 LMP, 3.3	C.3	☑	C.3: Mandatory IF (SUMICS 22/3 (EDR for synchronous transports) OR SUMICS 22/4 (EDR for synchronous transports, CSA1 and 3.0 + HS or later)) is supported, otherwise Excluded.
2/19	Simple Pairing	LMP 4.2.7	C.4	☑	C.4: Excluded IF SUMICS 21/3 "Core Specification 2.0" OR SUMICS 21/4 "2.0+EDR" is supported; otherwise Mandatory IF LMP 2/21 "BR/EDR Not Supported" is NOT supported, otherwise Excluded.
2/20	Enhanced Power Control	LMP, 4.1.3.1, LMP, 3.3	C.6	☑	C.6: Excluded IF SUMICS 21/3 "Core Specification 2.0" OR SUMICS 21/4 "2.0+EDR" OR SUMICS 21/5 "Core Specification 2.1" OR SUMICS 21/6 "2.1+EDR" is supported, otherwise Excluded if LMP 2/21 "BR/EDR Not Supported" is supported, otherwise Optional IF LMP 2/10 "Power Control" AND LMP 2/13 "RSSI" are supported.
2/22	LE Supported (Controller)	LMP, 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)	LMP, 3.3	C.12	☑	C.12: Optional IF LMP 2/22 (LE Supported (Controller)) is supported AND LMP 2/21 (BR/EDR Not Supported) is NOT supported, otherwise Excluded.
2/24	LE Supported (Host)	LMP, 3.3	C.7	☑	C.7: Optional IF LMP 2/22 (LE Supported (Controller)) is supported, otherwise Excluded.
2/25	No Longer Used			☑	
2/26	Secure Connections	[4] 3.3	C.9	☑	C.9: Excluded IF SUMICS 21/3 "Core Specification 2.0" OR SUMICS 21/4 "2.0+EDR" OR SUMICS 21/5 "Core Specification 2.1" OR SUMICS 21/6 "2.1+EDR" is supported OR SUMICS 21/8 "Core Specification 3.0" OR SUMICS 21/9 "Core Specification 4.0" is supported; otherwise Optional IF LMP 2/21 "BR/EDR Not Supported" is NOT supported, otherwise Excluded.
2/27	Ping	[4] 3.3, 4.1.13	C.10	☑	C.10: Mandatory if 2/26 (Secure Connections) is supported, otherwise Excluded.
2/28	Coarse Clock Adjustment	[1] 4.1.14.1	C.11	☑	C.11: Excluded IF LMP 2/21 (BR/EDR Not Supported) is supported, otherwise Optional.

Table 3: Authentication

Item	Capability	System Spec Reference	Support	Status	Comment
3/1	Initiate authentication before connection completed	LMP, 4.2.1	O	☑	
3/2	Initiate authentication after connection completed	LMP, 4.2.1	O	☑	
3/3	Respond to authentication request	LMP, 4.2.1	M	☑	

Table 4: Pairing

Item	Capability	System Spec Reference	Support	Status	Comment
4/1	Initiate pairing before connection completed	LMP, 4.2.2	O	☑	
4/2	Initiate pairing after connection completed	LMP, 4.2.2	O	☑	
4/3	Respond to pairing request	LMP, 4.2.2.1, LMP, 4.2.2.3	M	☑	
4/4	Use fixed PIN and request responder to initiator switch	LMP, 4.2.2.2	C.1	☑	C.1: Mandatory to support at least one of 4/4 or 4/5.
4/5	Use variable PIN	LMP, 4.2.2.2	C.1	☑	C.1: Mandatory to support at least one of 4/4 or 4/5.
4/6	Accept initiator to responder switch	LMP, 4.2.2.2	C.2	☑	C.2: Mandatory if 4/5 and (4/1 or 4/2) are supported.

Table 5: Link Keys

Item	Capability	System Spec Reference	Support	Status	Comment
5/1	Creation of link key - Unit Key	LMP, 4.2.2.4	C.1	☑	C.1: Mandatory to support at least one of 5/1 or 5/2.
5/2	Creation of link key - Combination Key	LMP, 4.2.2.4	C.1	☑	C.1: Mandatory to support at least one of 5/1 or 5/2.
5/3	Initiate change of link key	LMP, 4.2.3	O	☑	
5/4	Accept change of link key	LMP, 4.2.3	M	☑	
5/7	Accept pairing with Unit Key	LMP, 4.2.2.4	O	☑	

Table 6: Encryption

Item	Capability	System Spec Reference	Support	Status	Comment
6/1	Initiate encryption	LMP, 4.2.5.1	C.1	☑	C.1: Optional IF (SUMICS 21/3 "Core Specification 2.0" OR SUMICS 21/4 "2.0+EDR") is supported, otherwise Mandatory.
6/2	Accept encryption requests	LMP, 4.2.5.1	M	☑	
6/5	Key size negotiation	LMP, 4.2.5.2	M	☑	
6/6	Start encryption, as master	LMP, 4.2.5.3	M	☑	
6/7	Accept start of encryption	LMP, 4.2.5.3	M	☑	
6/8	Stop encryption, as master	LMP, 4.2.5.4	M	☑	
6/9	Accept stop of encryption	LMP, 4.2.5.4	M	☑	
6/10	Encryption Pause/Resume	LMP 4.2.5.3	C.2	☑	C.2: Excluded IF (SUMICS 21/3 "Core Specification 2.0" OR SUMICS 21/4 "2.0+EDR") is supported, otherwise Mandatory.
6/11	AES CCM Encryption	[4] 4.2.5	C.3	☑	C.3: Mandatory IF 2/26 (Secure Connections) is supported, otherwise Excluded.

Table 7: Clock Offset Information

Item	Capability	System Spec Reference	Support	Status	Comment
7/1	Request clock offset information	LMP, 4.3.2	O	☑	
7/2	Respond to clock offset requests	LMP, 4.3.2	M	☑	

Table 8: Slot Offset Information

Prerequisite: LMP 2/4

Item	Capability	System Spec Reference	Support	Status	Comment
8/1	Send slot offset information	LMP, 4.4.1	C.1	☑	C.1: Mandatory if 13/1 is supported, otherwise Optional.

Table 9: Timing Accuracy Information

Prerequisite: LMP 2/5

Item	Capability	System Spec Reference	Support	Status	Comment
9/1	Request timing accuracy information	LMP, 4.3.1	O	☑	
9/2	Respond to timing accuracy information requests	LMP, 4.3.1	M	☑	

Table 10: LM Version Information

Item	Capability	System Spec Reference	Support	Status	Comment
10/1	Request LM version information	LMP, 4.3.3	O	☑	
10/2	Respond to LM version information requests	LMP, 4.3.3	M	☑	

Table 11: Feature Support

Item	Capability	System Spec Reference	Support	Status	Comment
11/1	Request supported features	LMP, 4.3.4	C.1	☑	C.1: Mandatory if any of the "Optional" features in Table 2 is supported, otherwise Optional. (LMP:2/1-3), (LMP:2/5), (LMP:2/7-12), (LMP:2/14-16), (LMP:26/1) is requested by the IUT, ELSE Optional.
11/2	Respond to supported features requests	LMP, 4.3.4	M	☑	
11/3	Request extended features mask	LMP, 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	LMP, 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	System Spec Reference	Support	Status	Comment
12/1	Request name information	LMP, 4.3.5	O	☑	
12/2	Respond to name requests	LMP, 4.3.5	M	☑	

Table 13: Role Switch

Item	Capability	System Spec Reference	Support	Status	Comment
13/1	Request Master Slave switch	LMP, 4.4.2	O	☑	
13/2	Accept Master Slave switch requests	LMP, 4.4.2	M	☑	

Table 14: Detach

Item	Capability	System Spec Reference	Support	Status	Comment
14/1	Detach connection	LMP, 4.1.2	M	☑	

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

Prerequisite: LMP 2/17

Item	Capability	System Spec Reference	Support	Status	Comment
14a/1	Enter Enhanced Data Rate	LMP, 4.1.11	C.1	☑	C.1: Mandatory if 2/17 is supported, otherwise Excluded.
14a/2	Exit Enhanced Data Rate	LMP, 4.1.11	C.1	☑	C.1: Mandatory if 2/17 is supported, otherwise Excluded.

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

Prerequisite: LMP 2/18

Item	Capability	System Spec Reference	Support	Status	Comment
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14b/1	Enter and Exit eSCO Using Enhanced Data Rate Packets	LMP, 4.6.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory if 2/18 is supported, otherwise Excluded.
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Table 15: Hold Mode

Prerequisite: LMP 2/7

Item	Capability	System Spec Reference	Support	Status	Comment
15/1	Force hold mode	LMP, 4.5.1. LMP, 4.5.1.2	O	<input checked="" type="checkbox"/>	
15/2	Request hold mode	LMP, 4.5.1. LMP, 4.5.1.3	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory if 15/1 is supported, otherwise Optional.
15/3	Respond to hold mode requests	LMP, 4.5.1. LMP, 4.5.1.3	M	<input checked="" type="checkbox"/>	
15/4	Accept forced hold mode	LMP, 4.5.1.1, LMP, 4.5.1.2	M	<input checked="" type="checkbox"/>	

Table 16: Sniff Mode

Item	Capability	System Spec Reference	Support	Status	Comment
16/2	Request sniff mode	LMP, 4.5.3, LMP, 4.5.3.2	O	<input checked="" type="checkbox"/>	
16/3	Respond to sniff mode requests (renegotiate or reject)	LMP, 4.5.3.2	M	<input checked="" type="checkbox"/>	
16/5	Request un-sniff	LMP, 4.5.3.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory if 16/2 is supported, otherwise Optional.
16/6	Accept un-sniff requests	LMP, 4.5.3.2	M	<input checked="" type="checkbox"/>	
16/7	Sniff Subrating Mode	LMP, 4.5.3.3	C.2	<input checked="" type="checkbox"/>	C.2: Excluded IF (SUMICS 21/3 "Core Specification 2.0" OR SUMICS 21/4 "2.0+EDR") is supported, otherwise Mandatory.

Table 17: Park Mode

Prerequisite: LMP 2/9

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 18: Power Control

Item	Capability	System Spec Reference	Support	Status	Comment
18/1	Request to increase power	LMP, 4.1.3	M1	<input checked="" type="checkbox"/>	M1: Mandatory if 2/13 is supported.
18/2	Request to decrease power	LMP, 4.1.3	M1	<input checked="" type="checkbox"/>	M1: Mandatory if 2/13 is supported.
18/3	Respond when max power reached	LMP, 4.1.3	M2	<input checked="" type="checkbox"/>	M2: Mandatory if 2/10 is supported.
18/4	Respond when min power reached	LMP, 4.1.3	M2	<input checked="" type="checkbox"/>	M2: Mandatory if 2/10 is supported.
18/5	Request to increment power a single step	LMP, 4.1.3.1.1	M3	<input checked="" type="checkbox"/>	M3: Mandatory if 2/20 is supported.
18/6	Request to decrease power a single step	LMP, 4.1.3.1.1	M3	<input checked="" type="checkbox"/>	M3: Mandatory if 2/20 is supported.
18/8	Respond to increment power a single step	LMP, 4.1.3.1.2	M3	<input checked="" type="checkbox"/>	M3: Mandatory if 2/20 is supported.
18/9	Respond to decrease power a single step	LMP, 4.1.3.1.2	M3	<input checked="" type="checkbox"/>	M3: Mandatory if 2/20 is supported.
18/10	Respond to go to max power	LMP, 4.1.3.1.2	M3	<input checked="" type="checkbox"/>	M3: Mandatory if 2/20 is supported.

Table 19: Link Supervision Timeout

Item	Capability	System Spec Reference	Support	Status	Comment
19/1	Set link supervision timeout value	LMP, 4.1.6	O	<input checked="" type="checkbox"/>	
19/2	Accept link supervision timeout setting	LMP, 4.1.6	M	<input checked="" type="checkbox"/>	

Table 20: Quality of Service

Item	Capability	System Spec Reference	Support	Status	Comment
20/1	Channel quality driven change between DM and	LMP, 4.1.7	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory if 2/11 is supported (stated in the feature

DH packet type

request), otherwise Optional.

20/2	Force/Request change of Quality of Service	LMP, 4.1.8, LMP, 4.1.8.1	M	<input checked="" type="checkbox"/>	
20/3	Request Change of Quality of Service	LMP, 4.1.8, LMP, 4.1.8.2	M	<input checked="" type="checkbox"/>	

Table 21: SCO Links

Prerequisite: LMP 2/12

Item	Capability	System Spec Reference	Support	Status	Comment
21/1	Initiate SCO links, as Master	LMP, 4.6.1, LMP, 4.6.1.1	O	<input checked="" type="checkbox"/>	
21/2	Initiate SCO links, as Slave	LMP, 4.6.1, LMP, 4.6.1.2	O	<input checked="" type="checkbox"/>	
21/3	Accept SCO links	LMP, 4.6.1, LMP, 4.6.1.1, LMP, 4.6.1.2	O	<input checked="" type="checkbox"/>	
21/4	Remove SCO links, as Master	LMP, 4.6.1, LMP,4.6.1.5	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory if 21/1 is supported, otherwise Optional.
21/5	Remove SCO links, as Slave	LMP, 4.6.1, LMP,4.6.1.5	C.2	<input checked="" type="checkbox"/>	C.2: Mandatory if 21/2 is supported, otherwise Optional.
21/6	Negotiate SCO link parameters, as Master	LMP, 4.6.1, LMP,4.6.1.3	C.3	<input checked="" type="checkbox"/>	C.3: Mandatory if (21/1 or 21/3) is supported, otherwise Optional.
21/7	Negotiate SCO link parameters, as Slave	LMP, 4.6.1, LMP,4.6.1.4	C.4	<input checked="" type="checkbox"/>	C.4: Mandatory if (21/2 or 21/3) is supported, otherwise Optional.

Table 22: Multi-Slot Packets

Item	Capability	System Spec Reference	Support	Status	Comment
22/1	Accept maximum allowed number of slots to be used	LMP, 4.1.10	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory if (2/1 and/or 2/2) is supported, otherwise Optional.
22/2	Request maximum number of slots to be used	LMP, 4.1.10	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory if (2/1 and/or 2/2) is supported, otherwise Optional.
22/3	Accept request of maximum number of slots to be used	LMP, 4.1.10	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory if (2/1 and/or 2/2) is supported, otherwise Optional.

Table 23: Paging Scheme

Item	Capability	System Spec Reference	Support	Status	Comment
23/1	Request page mode to use	LMP, 4.1.9, LMP, 4.1.9.1	O	<input checked="" type="checkbox"/>	
23/2	Accept suggested page mode	LMP, 4.1.9, LMP,4.1.9.1	O	<input checked="" type="checkbox"/>	
23/3	Request page scan mode to use	LMP, 4.1.9, LMP,4.1.9.2	O	<input checked="" type="checkbox"/>	
23/4	Accept suggested page scan mode	LMP, 4.1.9, LMP, 4.1.9.2	O	<input checked="" type="checkbox"/>	

Table 24: Connection Establishment

Item	Capability	System Spec Reference	Support	Status	Comment
24/1	Create connection for higher layers	LMP, 4.1.1	M	<input checked="" type="checkbox"/>	
24/2	Respond to requests to establish connections for higher layers	LMP, 4.1.1	M	<input checked="" type="checkbox"/>	
24/3	Indicate that link set-up is complete	LMP, 4.1.1	M	<input checked="" type="checkbox"/>	

Table 25: Test Mode

Item	Capability	System Spec Reference	Support	Status	Comment
25/1	Activate test mode	LMP, 4.7.1	O	<input checked="" type="checkbox"/>	
25/2	Ability to reject activation of test mode if test mode is disabled	LMP, 4.7.1	M	<input checked="" type="checkbox"/>	
25/3	Control test mode	LMP, 4.7.2	O	<input checked="" type="checkbox"/>	

25/4	Ability to reject est mode control commands if test mode is disabled.	LMP, 4.7.2	M	<input checked="" type="checkbox"/>
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Table 26: Adaptive Frequency Hopping

Item	Capability	System Spec Reference	Support	Status	Comment
26/1	Support of AFH switch as master	LMP, 4.1.4	O	<input checked="" type="checkbox"/>	
26/2	Support of AFH switch as slave	LMP, 4.1.4	M	<input checked="" type="checkbox"/>	
26/3	Support of Channel Classification reporting - post Role Switch (as Slave)	LMP, 4.1.5	C.1	<input checked="" type="checkbox"/>	C.1: Optional if 26/6 is supported, otherwise Excluded.
26/4	Support of Channel Classification reporting as slave	LMP, 4.1.5	C.2	<input checked="" type="checkbox"/>	C.2: Mandatory if 26/6 is supported, otherwise Excluded.
26/5	Support channel classification from host	LMP, 4.1.5	C.3	<input checked="" type="checkbox"/>	C.3: Mandatory if 26/1 or 26/4 is supported, otherwise Optional.
26/6	Support of Channel Classification	LMP, 4.1.5	O	<input checked="" type="checkbox"/>	

Table 27: Ping

Item	Capability	System Spec Reference	Support	Status	Comment
27/1	Initiate LMP Ping	[4] 4.1.13	O	<input checked="" type="checkbox"/>	
27/2	Respond to LMP Ping	[4] 4.1.13	M	<input checked="" type="checkbox"/>	

Table 28: Coarse Clock Adjustment

Item	Capability	System Spec Reference	Support	Status	Comment
28/1	Receive Request for Coarse Clock Adjustment	[1] 4.1.14.1	O	<input checked="" type="checkbox"/>	
28/2	Send Request for Coarse Clock Adjustment	[1] 4.1.14.1	O	<input checked="" type="checkbox"/>	

Table 29: Slot Availability Mask

Item	Capability	System Spec Reference	Support	Status	Comment
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Host Controller Interface

Host Controller Interface

Table 1: Generic Events

Item	Capability	System Spec Reference	Support	Status	Comment
1/1	Command Complete Event	7.7.14	M	<input checked="" type="checkbox"/>	
1/2	Command Status Event	7.7.15	M	<input checked="" type="checkbox"/>	

Table 1a: Roles

Item	Capability	System Spec Reference	Support	Status	Comment
1a/1	BR/EDR Controller	2.0	O.1	<input checked="" type="checkbox"/>	O.1: It is mandatory to support at least one of the defined roles.

Table 2: Device Setup

Item	Capability	System Spec Reference	Support	Status	Comment
2/1	Reset Command	7.3.2	M	<input checked="" type="checkbox"/>	

Table 3: Controller Flow Control

Item	Capability	System Spec Reference	Support	Status	Comment
3/1	Read Buffer Size Command	7.4.5	M	☑	
3/5	LE Read Buffer Size Command	7.8.2	O	☑	

Table 4: Controller Information

Item	Capability	System Spec Reference	Support	Status	Comment
4/1	Read Local Version Information	7.4.1	M	☑	
4/2	Read Local Supported Commands Command	7.4.2	M	☑	
4/3	Read Local Supported Features Command	7.4.3	M	☑	
4/4	Read Local Extended Features Command	7.4.4	C.1	☑	C.1: Mandatory if a feature requiring another features page is supported, otherwise optional.
4/5	Read BD_ADDR Command	7.4.6	M	☑	
4/8	See 4.0HCI	[1] 7.8.3	Excluded	☑	
4/9	See 4.0HCI	[1] 7.8.27	Excluded	☑	
4/10	HCI Read Local Supported Codecs	[1] 7.4.8	O	☑	

Table 5: Controller Configuration

Item	Capability	System Spec Reference	Support	Status	Comment
5/1	Read Local Name Command	7.3.12	M	☑	
5/2	Write Local Name Command	7.3.11	M	☑	
5/3	Read Class of Device Command	7.3.27	M	☑	
5/4	Write Class of Device Command	7.3.28	M	☑	
5/5	Read Number Of Supported IAC Command	7.3.45	O	☑	
5/6	Read Current IAC LAP Command	7.3.46	O	☑	
5/7	Write Current IAC LAP Command	7.3.47	O	☑	
5/8	Read Scan Enable Command	7.3.17	O	☑	
5/9	Write Scan Enable Command	7.3.18	M	☑	

Table 6: Device Discovery

Item	Capability	System Spec Reference	Support	Status	Comment
6/1	Inquiry Command	7.1.1	C.1	☑	C.1: Mandatory if (BB 10/1) is supported, otherwise Optional.
6/2	Inquiry Cancel Command	7.1.2	O	☑	
6/3	Periodic Inquiry Mode Command	7.1.3	O	☑	
6/4	Exit Periodic Inquiry Mode Command	7.1.4	O	☑	
6/5	Read Inquiry Scan Activity Command	7.3.21	O	☑	
6/6	Write Inquiry Scan Activity Command	7.3.22	O	☑	
6/7	Read Inquiry Scan Type Command	7.3.51	O	☑	
6/8	Write Inquiry Scan Type Command	7.3.52	O	☑	
6/9	Read Inquiry Mode Command	7.3.53	O	☑	
6/10	Write Inquiry Mode Command	7.3.54	O	☑	
6/11	Read Inquiry Response Transmit Power Level Command	7.3.57	C.2	☑	C.2: Mandatory if (Core Spec 2.1 or later) is supported.
6/12	Write Inquiry Transmit Power Level	7.3.58	C.2	☑	C.2: Mandatory if (Core Spec 2.1 or later) is supported.

Item	Capability	System Spec Reference	Support	Status	Comment
6/13	Read Extended Inquiry Response Command	7.3.51	C.3	☑	C.3: Mandatory if (Core Spec 2.1 or later) and (GAP 1/3) are supported, otherwise Excluded.
6/14	Write Extended Inquiry Response Command	7.3.52	C.3	☑	C.3: Mandatory if (Core Spec 2.1 or later) and (GAP 1/3) are supported, otherwise Excluded.
6/23	Inquiry Response Notification Event	7.7.73	C.8	☑	C.8: Optional IF SUMICS 21/12 "CSA4" OR 21/13 "4.1" OR 21/14 "4.2" OR 21/16 OR "5.0" is supported, otherwise Excluded.

Table 7: Connection Setup

Item	Capability	System Spec Reference	Support	Status	Comment
7/1	Create Connection Command	7.1.5	M	☑	
7/2	Accept Connection Request Command	7.1.8	M	☑	
7/3	Reject Connection Request Command	7.1.9	M	☑	
7/4	Create Connection Cancel Command	7.1.7	O	☑	
7/5	Disconnect Command	7.1.6	M	☑	
7/6	Read Page Timeout Command	7.3.15	M	☑	
7/7	Write Page Timeout Command	7.3.16	M	☑	
7/8	Read Page Scan Activity Command	7.3.19	M	☑	
7/9	Write Page Scan Activity Command	7.3.20	M	☑	
7/10	Read Page Scan Type Command	7.3.55	O	☑	
7/11	Write Page Scan Type Command	7.3.56	O	☑	
7/12	Read Connection Accept Timeout Command	7.3.13	M	☑	
7/13	Write Connection Accept Timeout Command	7.3.14	M	☑	

Table 8: Remote Information

Item	Capability	System Spec Reference	Support	Status	Comment
8/1	Remote Name Request	7.1.19	O	☑	
8/2	Remote Name Request Cancel	7.1.20	O	☑	
8/3	Read Remote Supported Features Command	7.1.21	M	☑	
8/4	Read Remote Extended Features Command	7.1.22	C.2	☑	C.2: Mandatory if (LMP 11/3) is supported, otherwise Optional.
8/5	Read Remote Version Information Command	7.1.23	O	☑	

Table 9: Synchronous Connections

Item	Capability	System Spec Reference	Support	Status	Comment
9/1	Setup Synchronous Connection Command	7.1.26	C.1	☑	C.1: Mandatory if (LMP 21/1 or 21/2) is supported, otherwise Optional.
9/2	Accept Synchronous Connection Request Command	7.1.27	C.2	☑	C.2: Mandatory if (LMP 21/3) is supported, otherwise Optional.
9/3	Reject Synchronous Connection Request Command	7.1.28	C.3	☑	C.3: Mandatory if (LMP 21/3) is NOT supported, otherwise Optional.
9/4	Read Voice Setting Command	7.1.29	C.4	☑	C.4: Mandatory if (LMP 21/1 or 21/2 or 21/3) is supported, otherwise Optional.
9/5	Write Voice Setting Command	7.1.30	C.4	☑	C.4: Mandatory if (LMP 21/1 or 21/2 or 21/3) is supported, otherwise Optional.
9/10	Enhanced Setup Synchronous Connection Command	[1] 7.1.45	C.6	☑	C.6: Optional IF 9/1 (Setup Synchronous Connection Command) is supported, otherwise Excluded.
9/11	Enhanced Accept Synchronous Connection Request Command	[1] 7.1.46	C.7	☑	C.7: Optional IF 9/2 (Accept Synchronous Connection Request Command) is supported, otherwise Excluded.

Table 10: Connection State

Item	Capability	System Spec Reference	Support	Status	Comment
10/1	Hold Mode Command	7.2.1	C.1	☑	C.1: Mandatory if (LMP 15/1) is supported, otherwise Optional.
10/2	Sniff Mode Command	7.2.2	C.2	☑	C.2: Mandatory if (LMP 16/2) is supported, otherwise Optional.
10/3	Exit Sniff Mode Command	7.2.3	C.2	☑	C.2: Mandatory if (LMP 16/2) is supported, otherwise Optional.
10/6	Read Link Policy Settings Command	7.2.9	M	☑	
10/7	Write Link Policy Settings Command	7.2.10	M	☑	
10/8	Read Default Link Policy Settings Command	7.2.11	M	☑	
10/9	Write Default Link Policy Settings Command	7.2.12	M	☑	
10/10	Read Hold Mode Activity	7.3.35	C.1	☑	C.1: Mandatory if (LMP 15/1) is supported, otherwise Optional.
10/11	Write Hold Mode Activity	7.3.36	C.1	☑	C.1: Mandatory if (LMP 15/1) is supported, otherwise Optional.

Table 11: Piconet Structure

Item	Capability	System Spec Reference	Support	Status	Comment
11/1	Role Discovery Command	7.2.7	O	☑	
11/2	Switch Role Command	7.2.8	C.1	☑	C.1: Mandatory if (LMP 13/1) is supported, otherwise Optional.

Table 12: Quality of Service

Item	Capability	System Spec Reference	Support	Status	Comment
12/1	Flow Specification Command	7.2.13	M	☑	
12/2	QoS Setup Command	7.2.6	M	☑	
12/3	Flush Command	7.3.4	M	☑	
12/4	Read Automatic Flush Timeout Command	7.3.31	M	☑	
12/5	Write Automatic Flush Timeout Command	7.3.32	M	☑	
12/6	Read Failed Contact Counter Command	7.5.1	M	☑	
12/7	Reset Failed Contact Counter Command	7.5.2	M	☑	
12/8	Read Num Broadcast Retransmissions Command	7.3.33	C.4	☑	C.4: Mandatory if (BB 11/1) is supported, otherwise Optional.
12/9	Write Num Broadcast Retransmissions Command	7.3.34	C.4	☑	C.4: Mandatory if (BB 11/1) is supported, otherwise Optional.
12/10	Enhanced Flush Command	7.3.62	C.3	☑	C.3: Mandatory if (Core Spec 2.1 or later) is supported.
12/17	Sniff Subrating Command	7.2.12	C.2	☑	C.2: Mandatory if (BB 17/1) and (LMP 16/7) are supported.
12/18	Sniff Subrating Event	7.7.37	C.2	☑	C.2: Mandatory if (BB 17/1) and (LMP 16/7) are supported.

Table 13: Physical Links

Item	Capability	System Spec Reference	Support	Status	Comment
13/1	Read Link Supervision Timeout Command	7.3.43	O	☑	
13/2	Write Link Supervision Timeout Command	7.3.44	C.1	☑	C.1: Mandatory if (LMP 19/1) is supported, otherwise Optional.
13/3	Read AFH Channel Assessment Mode Command	7.3.57	C.2	☑	C.2: Mandatory if (LMP 26/6) is supported, otherwise Optional.
13/4	Write AFH Channel Assessment Mode Command	7.3.58	C.2	☑	C.2: Mandatory if (LMP 26/6) is supported, otherwise Optional.
13/5	Set AFH Host Channel Classification Command	7.3.50	C.2	☑	C.2: Mandatory if (LMP 26/6) is supported, otherwise Optional.
13/6	Change Connection Packet Type Command	7.1.14	C.3	☑	C.3: Mandatory if (LMP 2/1 and/or 2/2) is supported, otherwise Optional.

Table 14: Host Flow Control

Item	Capability	System Spec Reference	Support	Status	Comment
14/1	Host Buffer Size Command	7.3.41	O	<input checked="" type="checkbox"/>	
14/2	Set Event Mask Command	7.3.1	O	<input checked="" type="checkbox"/>	
14/3	Set Event Filter Command	7.3.3	O	<input checked="" type="checkbox"/>	
14/4	Set Controller To Host Flow Control Command	7.3.40	O	<input checked="" type="checkbox"/>	
14/5	Host Number Of Completed Packets Command	7.3.42	O	<input checked="" type="checkbox"/>	
14/6	Read Synchronous Flow Control Enable Command	7.3.38	O	<input checked="" type="checkbox"/>	
14/7	Write Synchronous Flow Control Enable Command	7.3.39	O	<input checked="" type="checkbox"/>	
14/9	No Longer Used	-	Excluded	<input checked="" type="checkbox"/>	
14/10	No Longer Used	-	Excluded	<input checked="" type="checkbox"/>	
14/11	No Longer Used	-	Excluded	<input checked="" type="checkbox"/>	
14/12	Number of Completed Packets Event	7.7.19	O	<input checked="" type="checkbox"/>	
14/13	Data Buffer Overflow Event	7.7.26	O	<input checked="" type="checkbox"/>	
14/15	Read LE Host Support Command	7.3.38	O	<input checked="" type="checkbox"/>	
14/16	Write LE Host Support Command	7.3.39	O	<input checked="" type="checkbox"/>	

Table 15: Link Information

Item	Capability	System Spec Reference	Support	Status	Comment
15/1	Read LMP Handle Command	7.1.25	M	<input checked="" type="checkbox"/>	
15/2	Read Transmit Power Level Command	7.3.37	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory if (LMP 2/10) is supported, otherwise Optional.
15/2a	Read Enhanced Transmit Power Level Command	7.3.35	C.5	<input checked="" type="checkbox"/>	C.5: Mandatory IF LMP 2/20 "Enhanced Power Control" is supported, otherwise Optional
15/3	Read Link Quality Command	7.5.3	O	<input checked="" type="checkbox"/>	
15/4	Read RSSI Command	7.5.4	C.2	<input checked="" type="checkbox"/>	C.2: Mandatory if (LMP 2/13) is supported, otherwise Optional.
15/5	Read Clock Offset Command	7.1.24	O	<input checked="" type="checkbox"/>	
15/6	Read Clock Command	7.5.6	O	<input checked="" type="checkbox"/>	
15/7	Read AFH Channel Map Command	7.5.5	C.3	<input checked="" type="checkbox"/>	C.3: Mandatory if (LMP 26/6) is supported, otherwise Optional.

Table 16: Authentication and Encryption

Item	Capability	System Spec Reference	Support	Status	Comment
16/1	Read Authentication Enable Command	7.3.23	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory if (LMP 3/1) is supported, otherwise Optional.
16/2	Write Authentication Enable Command	7.3.24	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory if (LMP 3/1) is supported, otherwise Optional.
16/3	Read Encryption Mode Command	7.3.25	C.2	<input checked="" type="checkbox"/>	C.2: Mandatory if (LMP 6/1) is supported, otherwise Optional.
16/4	Write Encryption Mode Command	7.3.26	C.2	<input checked="" type="checkbox"/>	C.2: Mandatory if (LMP 6/1) is supported, otherwise Optional.
16/5	Link Key Request Reply Command	7.1.10	M	<input checked="" type="checkbox"/>	
16/6	Link Key Request Negative Reply Command	7.1.11	M	<input checked="" type="checkbox"/>	
16/7	PIN Code Request Reply Command	7.1.12	M	<input checked="" type="checkbox"/>	
16/8	PIN Code Request Negative Reply Command	7.1.13	M	<input checked="" type="checkbox"/>	
16/9	Authentication Requested Command	7.1.15	O	<input checked="" type="checkbox"/>	

16/10	Set Connection Encryption Command	7.1.16	C.2	☑	C.2: Mandatory if (LMP 6/1) is supported, otherwise Optional.
16/11	Change Connection Link Key Command	7.1.17	O	☑	
16/12	Master Link Key Command	7.1.18	C.3	☑	C.3: Mandatory if (LMP 2/14 and 6/6) are supported, otherwise Optional.
16/13	Read PIN Type Command	7.3.5	C.4	☑	C.4: Mandatory if (LMP 4/5) is supported, otherwise Optional.
16/14	Write PIN Type Command	7.3.6	C.4	☑	C.4: Mandatory if (LMP 4/5) is supported, otherwise Optional.
16/15	Read Stored Link Key Command	7.3.8	O	☑	
16/16	Write Stored Link Key Command	7.3.9	O	☑	
16/17	Delete Stored Link Key Command	7.3.10	O	☑	
16/18	Create New Unit Key Command	7.3.7	C.5	☑	C.5: Mandatory if (LMP 5/1) is supported, otherwise Optional.
16/19	User Confirmation Request Reply Command	7.1.30	C.6	☑	C.6: Mandatory if (Core Spec 2.1 or later) is supported, otherwise Excluded.
16/20	User Confirmation Request Negative Reply Command	7.1.31	C.6	☑	C.6: Mandatory if (Core Spec 2.1 or later) is supported, otherwise Excluded.
16/21	User Passkey Request Reply Command	7.1.32	C.6	☑	C.6: Mandatory if (Core Spec 2.1 or later) is supported, otherwise Excluded.
16/22	User Passkey Request Negative Reply Command	7.1.33	C.6	☑	C.6: Mandatory if (Core Spec 2.1 or later) is supported, otherwise Excluded.
16/23	IO Capability Response Command	7.1.29	C.6	☑	C.6: Mandatory if (Core Spec 2.1 or later) is supported, otherwise Excluded.
16/24a	Remote OOB Data Request Reply Command	7.1.34	C.6	☑	C.6: Mandatory if (Core Spec 2.1 or later) is supported, otherwise Excluded.
16/25	Remote OOB Data Request Negative Reply Command	7.1.35	C.6	☑	C.6: Mandatory if (Core Spec 2.1 or later) is supported, otherwise Excluded.
16/26	Read Local OOB Data Command	7.3.56	C.6	☑	C.6: Mandatory if (Core Spec 2.1 or later) is supported, otherwise Excluded.
16/27	Write Simple Pairing Mode Command	7.3.55	C.6	☑	C.6: Mandatory if (Core Spec 2.1 or later) is supported, otherwise Excluded.
16/28	Read Simple Pairing Mode Command	7.3.54	C.6	☑	C.6: Mandatory if (Core Spec 2.1 or later) is supported, otherwise Excluded.
16/29	Refresh Encryption Key Command	7.3.53	C.7	☑	C.7: Mandatory if (Core Spec 2.1 or later) is supported, otherwise Optional.
16/30	Read Encryption Key Size Command	7.5.7	C.8	☑	C.8: Optional if (Core Spec 3.0 or later) is supported, otherwise Excluded.
16/31	Send Keypress Notification Command	7.3.63	C.9	☑	C.9: Optional if (Core Spec 2.1 or later) is supported, otherwise Excluded.
16/37	Encryption Change Event	7.7.8	C.2	☑	C.2: Mandatory if (LMP 6/1) is supported, otherwise Optional.
16/38	Encryption Key Refresh Complete Event	7.7.39	C.2	☑	C.2: Mandatory if (LMP 6/1) is supported, otherwise Optional.
16/40	Link Key Notification Event	[3] 7.7.24	M	☑	
16/41	Read Secure Connections Host Support	[3] 7.3.91	C.11	☑	C.11: Mandatory IF (SUMICS 31/14 OR SUMICS 31/15 AND LMP 2/26 (Secure Connections)) is
16/42	Write Secure Connections Host Support	[3] 7.3.92	C.11	☑	C.11: Mandatory IF (SUMICS 31/14 OR SUMICS 31/15 AND LMP 2/26 (Secure Connections)) is
16/43	Remote OOB Extended Data Request Reply Command	[3] 7.1.53	C.11	☑	C.11: Mandatory IF (SUMICS 31/14 OR SUMICS 31/15 AND LMP 2/26 (Secure Connections)) is
16/44	Read Local OOB Extended Data Command	[3] 7.3.95	C.11	☑	C.11: Mandatory IF (SUMICS 31/14 OR SUMICS 31/15 AND LMP 2/26 (Secure Connections)) is
16/45	Write Secure Connections Test Mode	[3] 7.3.93	C.11	☑	C.11: Mandatory IF (SUMICS 31/14 OR SUMICS 31/15 AND LMP 2/26 (Secure Connections)) is
16/46	Authenticated Payload Timeout Expired Event	[3] 7.7.75	C.11	☑	C.11: Mandatory IF (SUMICS 31/14 OR SUMICS 31/15 AND LMP 2/26 (Secure Connections)) is
16/47	Read Authenticated Payload Timeout	[3] 7.3.93	C.11	☑	C.11: Mandatory IF (SUMICS 31/14 OR SUMICS 31/15 AND LMP 2/26 (Secure Connections)) is
16/48	Write Authenticated Payload Timeout	[3] 7.3.92	C.11	☑	C.11: Mandatory IF (SUMICS 31/14 OR SUMICS 31/15 AND LMP 2/26 (Secure Connections)) is
16/49	Authenticated Payload Timeout Expired	[3] 7.7.75	C.11	☑	C.11: Mandatory IF (SUMICS 31/14 OR SUMICS 31/15 AND LMP 2/26 (Secure Connections)) is

Table 17: Testing

Item	Capability	System Spec Reference	Support	Status	Comment
17/1	Read Loopback Mode Command	7.6.1	O	☑	
17/2	Write Loopback Mode Command	7.6.2	O	☑	
17/3	Enable Device Under Test Mode Command	7.6.3	O	☑	
17/4	Write Simple Pairing Debug Mode Command	7.6.4	C.1	☑	C.1: Mandatory if (Core Spec 2.1 or later) is supported, otherwise Excluded.

Table 18: Connectionless Slave Broadcast

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 19: Alignment with External Timing Source

Item	Capability	System Spec Reference	Support	Status	Comment
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Low Energy Link Layer

Table 1: Controller States/Roles

Item	Capability	System Spec 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 2: Device Addresses Types

Item	Capability	System Spec Reference	Support	Status	Comment
2/1	Public Address	[1]: 1.3	C.1	☑	C.1: IF SUMICS 21/9 “Core v4.0” OR SUMICS 21/13 “Core v4.1” is supported it is Mandatory to support at least one of (LL 2/1 “Public Address” OR LL 2/2 “Random Address”), otherwise it is Mandatory to support at least one of (LL 2/1 “Public Address” OR LL 2/3 “Static Address”), otherwise Optional.
2/2	Random Address	[1]: 1.3	C.1	☑	C.1: IF SUMICS 21/9 “Core v4.0” OR SUMICS 21/13 “Core v4.1” is supported it is Mandatory to support at least one of (LL 2/1 “Public Address” OR LL 2/2 “Random Address”), otherwise it is Mandatory to support at least one of (LL 2/1 “Public Address” OR LL 2/3 “Static Address”), otherwise Optional.

Table 3: Protocol Advertising Features

Item	Capability	System Spec Reference	Support	Status	Comment
3/1	Non-Connectable 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 Undirected Events	[1]: 4.4.2.3	C.2	☑	C.2: Mandatory if GAP 5/3 (Peripheral) is supported, otherwise Not Defined.
3/3	Advertising Data	[1]: 4.4.2.3, 4.4.2.5, 4.4.2.6	M	☑	
3/4	Connectable Directed Events	[1]: 4.4.2.4	O	☑	
3/4a	Low Duty Cycle Direct Advertising	[1] 4.4.2.4	C.5	☑	C.5: Optional if (Core Spec 4.1 or later) is supported, otherwise Excluded.

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 Not Defined.
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 Not Defined.
3/8	Filtering Policies	[1]: 4.3.2	O	☑	

Table 4: Protocol Scanning Features

Item	Capability	System Spec 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; 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; otherwise Optional
4/4	Backoff Procedure	[1]: 4.4.3.2	M	☑	
4/5	Filtering Policies	[1]: 4.3.3	O	☑	

Table 5: Protocol Initiating Features

Prerequisite: LL 1/3

Item	Capability	System Spec 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

Item	Capability	System Spec 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	☑	
6/4a	Requesting Feature Setup	[1] 5.1.4.2	C.2	☑	C.2: Mandatory IF ((Core Spec 4.1 or later) AND LL 6/10a (Initiating Connection Parameter Request)) are supported.
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	☑	
6/8	No Longer Used	-	-	☑	
6/9	No Longer Used	-	-	☑	
6/10	Accepting Parameter Update	[1]: 5.1.1	M	☑	
6/10a	Initiating Connection Parameter Request	[1] 5.1	C.3	☑	C.3: Optional IF (Core Spec 4.1 or later) is supported, otherwise Excluded.
6/10b	Accepting Connection Parameter Request	[1] 5.1	C.2	☑	C.2: Mandatory IF ((Core Spec 4.1 or later) AND LL 6/10a (Initiating Connection Parameter Request)) are supported.
6/11	Accepting Channel Map Update	[1]: 5.1.2	M	☑	
6/12	Encryption Start	[1]: 5.1.3	O	☑	
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	O	☑	
6/19	Slave Version Exchange	[1]: 5.1.5	M	☑	
6/20	Slave listens to multiple packets per connection event	4.5.7	O	☑	
6/21	LE Authenticated Payload Timeout	[3] 5.4	C.5	☑	C.5: Mandatory IF LL 9/2 "LE Ping" is supported, otherwise Excluded.

Table 7: Protocol Master Role Features

Item	Capability	System Spec 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	☑	
7/4a	Responding in Feature Setup	[1] 5.1.4.2	C.2	☑	C.2: Mandatory IF ((Core Spec 4.1 or later) AND LL 7/10b (Accepting Connection Parameter Request) is supported, 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 supports data input to a Host)	[1]: 4.5.1, 4.5.6	M	☑	
7/7	More Data	[1]: 4.5.6	O	☑	
7/8	No Longer Used	-	-	☑	
7/9	No Longer Used	-	-	☑	
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 ((Core Spec 4.1 or later) AND LL 7/10b (Accepting Connection Parameter Request) is supported, otherwise Excluded.
7/10b	Accepting Connection Parameter Request	[1] 5.1	C.3	☑	C.3: Optional if IF (Core Spec 4.1 or later) is supported, otherwise Excluded.
7/11	Requesting Channel Map Update	[1]: 5.1.2	M	☑	
7/12	Encryption Start	[1]: 5.1.3	O	☑	
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	☑	
7/18				☑	
7/19	Master Pause Encryption	[1]: 5.1.3	O	☑	
7/20	Master 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" is supported, otherwise Excluded.

Table 8: Physical Channels

Item	Capability	System Spec Reference	Support	Status	Comment
8/1	Data channels (channel index 0 to 36)	[1]: 1.4	C.1	☑	C.1: Mandatory if (1/4 or 1/5) 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 (1/4 or 1/5) is supported, otherwise Excluded.

Table 9: Supported Features

Item	Capability	System Spec Reference	Support	Status	Comment
9/1	LE Encryption	[1] 4.6.1	C.1	☑	C.1: Mandatory if (6/12 and 6/18) or (7/12 and 7/19) are supported, otherwise Excluded.
9/2	LE Ping Procedure	[3] 4.6.5	C.4	☑	C.4: Excluded IF SUMICS 21/9 "Core v4.0" is supported, otherwise Optional.
9/3	Connection Parameter Request Procedure	[1] 4.6.2	C.2	☑	C.2: Excluded IF SUMICS 21/9 "Core v4.0" is supported, otherwise Mandatory IF (LL 6/10a "Initiating Connection Parameter Request" OR LL 7/10b "Accepting Connection Parameter Request") are supported, otherwise Excluded.
9/4	Extended Reject Indication	[1] 4.6.3	C.3	☑	C.3: Excluded IF SUMICS 21/9 "Core v4.0" is supported, otherwise Mandatory IF LL 9/3 "Connection Parameter Request Procedure"; otherwise Optional.
9/5	Slave-initiated Features Exchange	[1] 4.6.4	C.4	☑	C.4: Excluded IF SUMICS 21/9 "Core v4.0" is supported, otherwise Optional.

Table 10: Scatternet Capabilities

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

Low Energy RF PHY

Table 1: Bluetooth LE RF Capabilities

Item	Capability	System Spec Reference	Support	Status	Comment
1/1	LE Transmitter (Non-connectable, Broadcaster)	[2], 3	C.1	☑	C.1: Mandatory to support at least one of these capabilities.
1/2	LE Receiver (Non-connectable, Observer)	[2], 4	C.1	☑	C.1: Mandatory to support at least one of these capabilities.
1/3	LE Transceiver (Connectable, Peripheral/Central)	[2], 3, 4	C.1	☑	C.1: Mandatory to support at least one of these capabilities.

Table 2: Bluetooth LE Test Interface Capabilities

Item	Capability	System Spec Reference	Support	Status	Comment
2/1	HCI Test Interface	[3], 2	C.1	☑	C.1: At least one of the capabilities shall be supported.
2/2	UART Test Interface	[3], 3	C.1	☑	C.1: At least one of the capabilities shall be supported.

4.0 Host Controller Interface

Table 1: Generic Events

Item	Capability	System Spec Reference	Support	Status	Comment
1/1	Command Complete Event	7.7.14	M	☑	
1/1d	Support all LE controller commands	3.3, 7.7	O	☑	
1/2	Command Status Event	7.7.15	M	☑	
1/3	Hardware Error Event	7.7.15	O	☑	

Table 1a: Roles

Item	Capability	System Spec Reference	Support	Status	Comment
1a/4	LE Controller	1	C.1	☑	C.1: It is mandatory to support at least one of the defined roles.

Table 2: Device Setup

Item	Capability	System Spec Reference	Support	Status	Comment
2/1	Reset Command	7.3.2	M	☑	

Table 3: Controller Flow Control

Item	Capability	System Spec Reference	Support	Status	Comment
3/1	Read Buffer Size Command (Item Excluded for 4.0 HCI)		Excluded	☑	
3/5	LE Read Buffer Size Command	7.8.2	M	☑	

Table 4: Controller Information

Item	Capability	System Spec Reference	Support	Status	Comment
4/1	Read Local Version Information Command	7.4.1	M	☑	
4/2	Read Local Supported Commands Command	7.4.2	M	☑	
4/3	Read Local Supported Features Command	7.4.3	M	☑	
4/5	Read BD_ADDR Command	7.4.6	M	☑	
4/8	LE Read Local Supported Features Command	7.8.3	M	☑	
4/9	LE Read Support States	[1] 7.8.27	C.2	☑	C.2: Mandatory IF SUMICS 21/13 (Core 4.1) OR SUMICS 21/14 (Core 4.2) is supported; Optional IF SUMICS 21/9 (Core 4.0) is supported.
4/10	See HCI (BR/EDR)			☑	

Table 5: Controller Configuration

Item	Capability	System Spec Reference	Support	Status	Comment
5/13	LE Set Random Address Command	7.8.5	C.1	☑	C.1: Mandatory if (LL 1/1 or 1/3 or 4/3) is supported, otherwise Optional.
5/14	LE Read White List Size Command	7.8.15	M	☑	
5/15	LE Add Device to White List Command	7.8.17	M	☑	
5/16	LE Clear White List Command	7.8.16	M	☑	
5/17	LE Remove Device From White List Command	7.8.18	M	☑	

Table 6: Device Discovery

Item	Capability	System Spec Reference	Support	Status	Comment
6/15	LE Set Advertise Enable Command	7.8.10	C.4	☑	C.4: Mandatory if (LL 1/1) is supported, otherwise Optional.
6/16	LE Set Advertising Parameters Command	7.8.6	C.4	☑	C.4: Mandatory if (LL 1/1) is supported, otherwise Optional.
6/17	LE Set Scan Response Data Command	7.8.9	C.5	☑	C.5: Mandatory if (LL 3/2 or 3/5) is supported, otherwise Optional.
6/18	LE Set Advertising Data Command	7.8.8	C.7	☑	C.7: Mandatory if (LL 3/3) is supported, otherwise Optional.
6/19	LE Advertising Report Event	7.7.65.2	C.6	☑	C.6: Mandatory if (LL 1/2) is supported, otherwise Optional.
6/20	LE Set Scan Enable Command	7.8.12	C.6	☑	C.6: Mandatory if (LL 1/2) is supported, otherwise Optional.
6/21	LE Set Scan Parameters Command	7.8.11	C.6	☑	C.6: Mandatory if (LL 1/2) is supported, otherwise Optional.
6/22	LE Read Advertising Channel TXPower Command	7.8.7	C.4	☑	C.4: Mandatory if (LL 1/1) is supported, otherwise Optional.

Table 7: Connection Setup

Item	Capability	System Spec Reference	Support	Status	Comment
7/5	Disconnect Command	7.1.6	C.2	☑	C.2: Mandatory if (LL 3/4 or 3/5) is supported, otherwise Optional.
7/23	LE Create Connection Command	7.8.13	C.1	☑	C.1: Mandatory if LL 1/5 and LL 3/3 are supported, otherwise Excluded.
7/24	LE Create Connection Cancel Command	7.8.14	C.1	☑	C.1: Mandatory if LL 1/5 and LL 3/3 are supported, otherwise Excluded.
7/25	LE Connection Complete Event	7.7.65.1	C.2	☑	C.2: Mandatory if (LL 3/4 or 3/5) is supported, otherwise Optional.
7/26	Disconnection Complete Event	7.7.5	C.2	☑	C.2: Mandatory if (LL 3/4 or 3/5) is supported, otherwise Optional.
7/27	LE Connection Update Command	7.8.19	C.8	☑	C.8: Mandatory IF (LL 1/5 (Master Role) AND LL 1/3 (Initiating State)) OR LL 6/10a (Initiating Connection Parameter Request) OR LL 7/10a (Initiating Connection Parameter Request) is supported, otherwise Excluded.
7/28	LE Connection Update Complete Event	7.7.65.3	C.2	☑	C.2: Mandatory if (LL 3/4 or 3/5) is supported, otherwise Optional.
7/35	LE Remote Connection Parameter Request Reply Command	[1] 7.8.32	C.7	☑	C.7: Mandatory IF (LL 6/10b (Accepting Connection Parameter Request) OR LL 7/10b (Accepting Connection Parameter Request)) is supported, otherwise Excluded.
7/36	LE Remote Connection Parameter Request Negative Reply Command	[1] 7.8.33	C.7	☑	C.7: Mandatory IF (LL 6/10b (Accepting Connection Parameter Request) OR LL 7/10b (Accepting Connection Parameter Request)) is supported, otherwise Excluded.
7/37	LE Remote Connection Parameter Request Event	[1] 7.7.65.6	C.7	☑	C.7: Mandatory IF (LL 6/10b (Accepting Connection Parameter Request) OR LL 7/10b (Accepting Connection Parameter Request)) is supported, otherwise Excluded.

Table 8: Remote Information

Item	Capability	System Spec Reference	Support	Status	Comment
8/5	Read Remote Version Information Command	7.1.23	C.4	☑	C.4: Mandatory if (LL 1/4 or 1/5) is supported, otherwise Optional.
8/6	LE Read Remote Used Features Command	7.8.22	C.3	☑	C.3: Mandatory if (LL 1/5) is supported, otherwise Optional.
8/7	LE Read Remote Used Features Complete Event	7.7.65.4	C.3	☑	C.3: Mandatory if (LL 1/5) is supported, otherwise Optional.
8/8	Read Remote Version Information Complete Event	7.7.12	C.4	☑	C.4: Mandatory if (LL 1/4 or 1/5) is supported, otherwise Optional.

Table 10: Connection State

Prerequisite: LL 9/6

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 13: Physical Links

Item	Capability	System Spec Reference	Support	Status	Comment
13/8	LE Set Host Channel Classification Command	7.8.19	C.5	☑	C.5: Mandatory if (LL 1/5) is supported, otherwise Optional.

Table 14: Host Flow Control

Item	Capability	System Spec Reference	Support	Status	Comment
14/1	Host Buffer Size Command	7.3.39	O	☑	
14/2	Set Event Mask Command	7.3.1	M	☑	

14/4	Set Controller To Host Flow Control Command	7.3.38	O	<input checked="" type="checkbox"/>	
14/5	Host Number Of Completed Packets Command	7.3.40	O	<input checked="" type="checkbox"/>	
14/8	Set Event Mask Page 2 Command	7.3.69	C.3	<input checked="" type="checkbox"/>	C.3: Mandatory IF SUMICS 31/14 (v4.1) AND (LL 6/21 (LL Authenticated Payload Timeout Timer - Slave) OR LL 7/21 (LL Authenticated Payload Timeout Timer - Master) are supported; Optional if SUMICS 31/14 (v4.1), otherwise Excluded.
14/12	Number of Completed Packets Event	7.7.26	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory if (LL 1/4 OR LL 1/5) is supported otherwise Optional
14/13	Data Buffer Overflow Event	7.7.26	O	<input checked="" type="checkbox"/>	
14/14	LE Set Event Mask Command	7.8.1	M	<input checked="" type="checkbox"/>	
14/15	Read LE Host Support Command	7.3.38	C.2	<input checked="" type="checkbox"/>	C.2: Mandatory if 1a/1 (BR/EDR Controller) is supported, otherwise Excluded.
14/16	Write LE Host Support Command	7.3.39	C.2	<input checked="" type="checkbox"/>	C.2: Mandatory if 1a/1 (BR/EDR Controller) is supported, otherwise Excluded.

Table 15: Link Information

Item	Capability	System Spec Reference	Support	Status	Comment
15/2	Read Transmit Power Level Command	7.3.35	C.4	<input checked="" type="checkbox"/>	C.4: Mandatory if (LL 1/4 or 1/5) is supported, otherwise Optional.
15/4	Read RSSI Command	7.5.4	C.4	<input checked="" type="checkbox"/>	C.4: Mandatory if (LL 1/4 or 1/5) is supported, otherwise Optional.
15/8	LE Read Channel Map Command	7.8.20	C.4	<input checked="" type="checkbox"/>	C.4: Mandatory if (LL 1/4 or 1/5) is supported, otherwise Optional.

Table 16: Authentication and Encryption

Item	Capability	System Spec Reference	Support	Status	Comment
16/32	LE Encrypt Command	7.8.22	C.10	<input checked="" type="checkbox"/>	C.10: Mandatory if (LL 9/1) is supported, otherwise Optional.
16/33	LE Rand Command	7.8.23	C.10	<input checked="" type="checkbox"/>	C.10: Mandatory if (LL 9/1) is supported, otherwise Optional.
16/34	LE Long Term Key Requested Reply Command	7.8.25	C.10	<input checked="" type="checkbox"/>	C.10: Mandatory if (LL 9/1) is supported, otherwise Optional.
16/35	LE Start Encryption Command	7.8.24	C.10	<input checked="" type="checkbox"/>	C.10: Mandatory if (LL 9/1) is supported, otherwise Optional.
16/36	LE Long Term Key Requested Event	7.7.65.5	C.10	<input checked="" type="checkbox"/>	C.10: Mandatory if (LL 9/1) is supported, otherwise Optional.
16/37	Encryption Change Event	7.7.8	C.10	<input checked="" type="checkbox"/>	C.10: Mandatory if (LL 9/1) is supported, otherwise Optional.
16/38	Encryption Key Refresh Complete Event	7.7.39	C.10	<input checked="" type="checkbox"/>	C.10: Mandatory if (LL 9/1) is supported, otherwise Optional.
16/39	LE Long Term Key Requested Negative Reply Command	7.8.26	C.10	<input checked="" type="checkbox"/>	C.10: Mandatory if (LL 9/1) is supported, otherwise Optional.
16/46	Authenticated Payload Timeout Expired Event	[3] 7.7.75	C.12	<input checked="" type="checkbox"/>	C.12: Mandatory IF (SUMICS 31/14-19 AND ((LL 1/4 (Slave Role) AND LL 6/21 (LL Authenticated Payload Timeout) OR (LL 1/5 (Master Role) AND LL 7/21 (LL Authenticated Payload Timeout)) is supported, otherwise Excluded.
16/47	Read Authenticated Payload Timeout	[3] 7.3.93	C.12	<input checked="" type="checkbox"/>	C.12: Mandatory IF (SUMICS 31/14-19 AND ((LL 1/4 (Slave Role) AND LL 6/21 (LL Authenticated Payload Timeout) OR (LL 1/5 (Master Role) AND LL 7/21 (LL Authenticated Payload Timeout)) is supported, otherwise Excluded.
16/48	Write Authenticated Payload Timeout	[3] 7.3.92	C.12	<input checked="" type="checkbox"/>	C.12: Mandatory IF (SUMICS 31/14-19 AND ((LL 1/4 (Slave Role) AND LL 6/21 (LL Authenticated Payload Timeout) OR (LL 1/5 (Master Role) AND LL 7/21 (LL Authenticated Payload Timeout)) is supported, otherwise Excluded.
16/49	Item No Longer Used	N/A	N/A	<input checked="" type="checkbox"/>	

Table 17: Testing

Item	Capability	System Spec Reference	Support	Status	Comment
177	LE Receiver Test Command	7.8.28	C.2	<input checked="" type="checkbox"/>	C.2: Mandatory if (LL 1/2 or 1/3 or 3/2 or 3/4 or 3/5) is supported, otherwise Optional.
178	LE Transmitter Test Command	7.8.29	C.3	<input checked="" type="checkbox"/>	C.3: Mandatory if (LL 1/1 or 1/3 or 4/3) is supported, otherwise Optional.
179	LE Test End Command	7.8.30	M	<input checked="" type="checkbox"/>	