



## Project Details

Project Name	Heart Rate Fitness Band
Product Type	End Product
TCRL Version:	TCRL 2018-2
Referenced Qualified Design(s)	
Previously Qualified Design Used in this Qualification(s)	94418 102543
Listing Date	2019-07-10
Declaration ID	D046735

### Product Listing(s)

Name	Website	Category	Publish Date	Model Number	Description
Heart Rate Fitness Band		Unique Products	7/10/2019 12:00:00 AM	J1810	Heart Rate Fitness Band
Heart Rate Fitness Band		Unique Products	7/10/2019 12:00:00 AM	J1851	Heart Rate Fitness Band
Heart Rate Fitness Band		Unique Products	7/10/2019 12:00:00 AM	1790	Heart Rate Fitness Band
Heart Rate Fitness Band		Unique Products	7/10/2019 12:00:00 AM	1755	Heart Rate Fitness Band
Heart Rate Fitness Band		Unique Products	7/10/2019 12:00:00 AM	1838	Heart Rate Fitness Band
Heart Rate Fitness Band		Unique Products	7/10/2019 12:00:00 AM	1751	Heart Rate Fitness Band
Heart Rate Fitness Band		Unique Products	7/10/2019 12:00:00 AM	1668	Heart Rate Fitness Band
Heart Rate Fitness Band		Unique Products	7/10/2019 12:00:00 AM	1860	Heart Rate Fitness Band
Heart Rate Fitness Band		Unique Products	7/10/2019 12:00:00 AM	1822	Heart Rate Fitness Band
Heart Rate Fitness Band		Unique Products	7/10/2019 12:00:00 AM	1915	Heart Rate Fitness Band
Heart Rate Fitness Band		Unique Products	7/10/2019 12:00:00 AM	1850	Heart Rate Fitness Band
Heart Rate Fitness Band		Unique Products	7/10/2019 12:00:00 AM	1791	Heart Rate Fitness Band
Heart Rate Fitness Band		Unique Products	7/10/2019 12:00:00 AM	B031	Heart Rate Fitness Band

### Member Company

Joint Chinese 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 Joint Chinese Ltd ("Company") to [Bluetooth Launch Studio Terms of Use](#), and I make the following representations and warranties personally and on behalf of Company. The following representations and warranties, together with all project information and the [Bluetooth](#)

[Launch Studio Terms of Use](#), are the Supplier Declaration of Conformity and Declaration of Compliance described in the [Program Reference Document \(PRD\)](#) and [Declaration Process Document \(DPD\)](#).

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

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

**Signature:**

Kathy Zhao

# BLUETOOTH<sup>®</sup> LAUNCH STUDIO TERMS OF USE

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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	Reference	Support	Status	Comment
21/16	Core Specification Version 5.0. Adopted 06 December 2016	Core 5.0	C.1	☑	C.1: Mandatory to support only one Controller Core Specification Version.
21/17	Core Erratum 10734 Pairing Updates	Erratum 10734	C.7	☑	C.7: Mandatory IF SUMICS 21/14 OR 21/16 OR 21/18 are supported, otherwise Excluded

**Table 22: EDR Features**

Item	Capability	Reference	Support	Status	Comment
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**Table 24: BR/EDR Controller Electrical Interfaces**

Item	Capability	Reference	Support	Status	Comment
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**Table 31: Host Configuration Specification Version**

Item	Capability	Reference	Support	Status	Comment
31/17	Core Spec Version 4.2, Adopted 02 December 2014	Core 4.2 (see 16 in published SUMICS)	C.1	☑	C.1: Mandatory to support only one Host Core Specification Version.

**Table 33: Core Host Electrical Interfaces**

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

Item	Capability	Reference	Support	Status	Comment
34/1	No Longer Used	-	-	☑	
34/11	No Longer Used	CSSv7	C.4	☑	C.4: Optional IF ((31/10 (Core 4.0) OR 31/11 ((Core 4.0+HS)) AND 31/11 (CSA2)) OR 31/14 (Core 4.1) OR 41/15 (Core 4.1+HS) OR 31/16 (Core 4.2) OR 31/17 (Core 4.2+HS)) OR 21/18 (Core 5.0) is supported, otherwise Excluded
34/13	Core Erratum 10734 Pairing Updates	Erratum 10734	M	☑	C.7: Excluded IF (31/10 "Host Core: Core 4.0" OR 31/11 "Host Core: Core 4.0 + HS" OR 31/15 "Host Core: Core 4.1"), otherwise Mandatory.

**Table 41: AMP Controller Specification Version**

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 43: AMP Controller Electrical Interfaces**

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	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**

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

## Product Type

**Table 1: Product Types**

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

## Attribute Protocol

**Table 1: Attribute Protocol Support**

Item	Capability	Reference	Support	Status	Comment
1/1	Attribute Protocol Client	ATT 1.1, GAP 12	O	<input checked="" type="checkbox"/>	
1/2	Attribute Protocol Server	ATT 1.1, GAP 12	M	<input checked="" type="checkbox"/>	

**Table 2: Attribute Protocol Transport**

Item	Capability	Reference	Support	Status	Comment
2/2	Attribute Protocol Supported over LE	ATT 1.3	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support at least one of 2/1 or 2/2.

**Table 3: Attribute Protocol Client Messages**

Item	Capability	Reference	Support	Status	Comment
3/1	Attribute Error Response	ATT, 3.4.1.1	M	<input checked="" type="checkbox"/>	
3/2	Exchange MTU Request	ATT, 3.4.2.1	C.11	<input checked="" type="checkbox"/>	C.11: Mandatory IF GATT 3/1 (GATT Client Exchange MTU) is supported, otherwise Optional.
3/3	Exchange MTU Response	ATT, 3.4.2.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory if 3/2 is supported, otherwise Excluded.
3/4	Find Information Request	ATT, 3.4.3.1	C.13	<input checked="" type="checkbox"/>	C.13: Mandatory IF GATT 3/7 (GATT Client Discover All Characteristic Descriptors) is supported, otherwise Optional.
3/5	Find Information Response	ATT, 3.4.3.2	C.9	<input checked="" type="checkbox"/>	C.9: Mandatory if 3/4 is supported, otherwise Excluded.
3/6	Find by Type	ATT,	C.12	<input checked="" type="checkbox"/>	C.12: Mandatory IF GATT 3/3 (GATT Client Discover Primary Services by Service UUID) is supported,

	Value Request	3.4.4.3			otherwise Optional.
3/7	Find by Type Value Response	ATT, 3.4.4.4	C.2	☑	C.2: Mandatory if 3/6 is supported, otherwise Excluded.
3/8	Read by Type Request	ATT, 3.4.4.1	C.15	☑	C.15: Mandatory IF GATT 3/9 (GATT Client Read Using Characteristic UUID) is supported, otherwise Optional.
3/9	Read by Type Response	ATT, 3.4.4.2	C.3	☑	C.3: Mandatory if 3/8 is supported, otherwise Excluded.
3/10	Read Request	ATT, 3.4.4.3	C.14	☑	C.14: Mandatory IF GATT 3/8 (GATT Client Read Characteristic Value) OR GATT 3/19 (GATT Client Read Characteristic Descriptors) is supported, otherwise Optional.
3/11	Read Response	ATT, 3.4.4.4	C.10	☑	C.10: Mandatory if 3/10 is supported, otherwise Excluded.
3/12	Read Blob Request	ATT, 3.4.4.5	C.16	☑	C.16: Mandatory IF GATT 3/10 (GATT Client Read Long Characteristic Values) OR GATT 3/20 (GATT Client Read Long Characteristic Descriptors) is supported, otherwise Optional.
3/13	Read Blob Response	ATT, 3.4.4.6	C.4	☑	C.4: Mandatory if 3/12 is supported, otherwise Excluded.
3/14	Read Multiple Request	ATT, 3.4.4.7	C.17	☑	C.17: Mandatory IF GATT 3/11 (GATT Client Read Multiple Characteristic Values) is supported, otherwise Optional.
3/15	Read Multiple Response	ATT, 3.4.4.8	C.5	☑	C.5: Mandatory if 3/14 is supported, otherwise Excluded.
3/16	Read by Group Type Request	ATT, 3.4.4.9	O	☑	
3/17	Read by Group Type Response	ATT, 3.4.4.10	C.6	☑	C.6: Mandatory if 3/16 is supported, otherwise Excluded.
3/18	Write Request	ATT, 3.4.5.1	C.20	☑	C.20: Mandatory IF GATT 3/14 (GATT Client Write Characteristic Value) OR GATT 3/21 (GATT Client Write Characteristic Descriptors) is supported, otherwise Optional.
3/19	Write Response	ATT, 3.4.5.2	C.7	☑	C.7: Mandatory if 3/18 is supported, otherwise Excluded
3/20	Write Command	ATT, 3.4.5.3	C.18	☑	C.18: Mandatory IF GATT 3/12 (GATT Client Write without Response) is supported, otherwise Optional.
3/22	Prepare Write Request	ATT, 3.4.6.1	C.21	☑	C.21: Mandatory IF GATT 3/15 (GATT Client Write Long Characteristic Values) OR GATT 3/16 (GATT Client Characteristic Value Reliable Writes) OR GATT 3/22 (GATT Client Write Long Characteristic Descriptors) is supported, otherwise Optional.
3/23	Prepare Write Response	ATT, 3.4.6.2	C.8	☑	C.8: Mandatory if 3/22 is supported, otherwise Excluded.
3/24	Execute Write Request	ATT, 3.4.6.3	C.8	☑	C.8: Mandatory if 3/22 is supported, otherwise Excluded.
3/25	Execute Write Response	ATT, 3.4.6.4	C.8	☑	C.8: Mandatory if 3/22 is supported, otherwise Excluded.
3/26	Handle Value Notification	ATT, 3.4.7.1	C.22	☑	C.22: Mandatory IF GATT 3/17 (GATT Client Notifications) is supported, otherwise Optional.
3/27	Handle-Value Indication	ATT, 3.4.7.2	C.23	☑	C.23: Mandatory IF GATT 3/18 (GATT Client Indications) is supported, otherwise Optional.
3/28	Handle Value Confirmation	ATT, 3.4.7.3	C.24	☑	C.24: Mandatory IF 3/27 (Handle-Value Indication) is supported, otherwise Excluded.
3/29	Client Timeout	ATT, 3.3.3	C.24	☑	C.24: Mandatory IF 3/27 (Handle-Value Indication) is supported, otherwise Excluded.

**Table 4: Attribute Protocol Server Messages**

Item	Capability	Reference	Support	Status	Comment
4/1	Attribute Error Response	ATT, 3.4.1.1	M	☑	
4/2	Exchange MTU Request	ATT, 3.4.2.1	M	☑	
4/3	Exchange MTU Response	ATT, 3.4.2.2	M	☑	
4/4	Find Information Request	ATT, 3.4.3.1	M	☑	

4/5	Find Information Response	ATT, 3.4.3.2	M	☑	
4/6	Find by Type Value Request	ATT, 3.4.4.3	M	☑	
4/7	Find by Type Value Response	ATT, 3.4.4.4	M	☑	
4/8	Read by Type Request	ATT, 3.4.4.1	M	☑	
4/9	Read by Type Response	ATT, 3.4.4.2	M	☑	
4/10	Read Request	ATT, 3.4.4.3	M	☑	
4/11	Read Response	ATT, 3.4.4.4	M	☑	
4/12	Read Blob Request	ATT, 3.4.4.5	C.6	☑	C.6: Mandatory IF GATT 4/10 (GATT Server Read Long Characteristic Values) is supported, otherwise Optional.
4/13	Read Blob Response	ATT, 3.4.4.6	C.1	☑	C.1: Mandatory if 4/12 is supported, otherwise Excluded.
4/16	Read by Group Type Request	ATT, 3.4.4.9	M	☑	
4/17	Read by Group Type Response	ATT, 3.4.4.10	M	☑	
4/18	Write Request	ATT, 3.4.5.1	C.10	☑	C.10: Mandatory IF GATT 4/14 (GATT Server Write Characteristic Value) OR GATT 4/21 (GATT Server Write Characteristic Descriptors) is supported, otherwise Optional.
4/19	Write Response	ATT, 3.4.5.2	C.3	☑	C.3: Mandatory if 4/18 is supported, otherwise Excluded.
4/20	Write Command	ATT, 3.4.5.3	C.8	☑	C.8: Mandatory IF GATT 4/12 (GATT Server Write Without Response) is supported, otherwise Optional.
4/22	Prepare Write Request	ATT, 3.4.6.1	C.11	☑	C.11: Mandatory IF GATT 4/15 (GATT Server Write Long Characteristic Values) OR GATT 4/16 (GATT Server Characteristic Value Reliable Writes) OR GATT 4/22 (GATT Server Write Long Characteristic Descriptors) is supported, otherwise Optional.
4/23	Prepare Write Response	ATT, 3.4.6.2	C.4	☑	C.4: Mandatory if 4/22 is supported, otherwise Excluded.
4/24	Execute Write Request	ATT, 3.4.6.3	C.4	☑	C.4: Mandatory if 4/22 is supported, otherwise Excluded.
4/25	Execute Write Response	ATT, 3.4.6.4	C.4	☑	C.4: Mandatory if 4/22 is supported, otherwise Excluded.
4/26	Handle Value Notification	ATT, 3.4.7.1	C.12	☑	C.12: Mandatory IF GATT 4/17 (GATT Server Notifications) is supported, otherwise Optional.
4/27	Handle-Value Indication	ATT, 3.4.7.2	C.13	☑	C.13: Mandatory IF GATT 4/18 (GATT Server Indications) is supported, otherwise Optional.
4/28	Handle Value Confirmation	ATT, 3.4.7.3	C.5	☑	C.5: Mandatory if 4/27 is supported, otherwise Excluded.
4/29	Server Timeout	ATT, 3.3.3	C.5	☑	C.5: Mandatory if 4/27 is supported, otherwise Excluded.
4/30	Execute Write Request with no pending prepared write values	ATT, 3.4.6.3	C.14	☑	C.14: Mandatory IF (GATT 4/25 "Execute Write Request with empty queue" OR 4/22 "Prepare Write Request") AND (SUMICS 31/18 "Core Spec Version 5.0") is supported, otherwise Optional.

**Table 5: Attribute Protocol Transport**

Item	Capability	Reference	Support	Status	Comment
5/2	LE Security Mode 1	GAP 10.2.1	C.2	☑	C.2: Optional if 2/2 is supported, otherwise Excluded.
5/4	LE Authentication Procedure	GAP 10.3	C.2	☑	C.2: Optional if 2/2 is supported, otherwise Excluded.
5/7	LE Authorization Procedure	GAP 10.5	C.2	☑	C.2: Optional if 2/2 is supported, otherwise Excluded.

## Generic Access Profile

### Generic Access Profile

**Table 0: Device Configuration**

Item	Capability	Reference	Support	Status	Comment
0/2	LE	[3] or [7] 1.1	C.2	<input checked="" type="checkbox"/>	C.2: Mandatory if (PROD 3/3) is Supported, otherwise excluded.

**Table 0a: Version Configuration**

Item	Capability	Reference	Support	Status	Comment
0a/4	Core Spec version 4.2 (Core v4.2), Adopted 02 December 2014	[8] Core v4.2	C.4	<input checked="" type="checkbox"/>	C.4: Mandatory if SUMICS 31/17 or 31/18 (Core Spec 4.2 or 4.2+HS) is supported, otherwise Excluded.

**Table 1: Modes**

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

Item	Capability	Reference	Support	Status	Comment
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**Table 2: Security Aspects**

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

Item	Capability	Reference	Support	Status	Comment
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**Table 3: Idle Mode Procedures**

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

Item	Capability	Reference	Support	Status	Comment
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**Table 4: Establishment Procedures**

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

Item	Capability	Reference	Support	Status	Comment
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**Table 5: LE Roles**

Prerequisite: GAP 0/2

Item	Capability	Reference	Support	Status	Comment
5/1	Broadcaster	[3] or [7] 2.2.2	C.1	<input checked="" type="checkbox"/>	C.1: It is mandatory to support at least one of the defined roles.
5/2	Observer	[3] or [7] 2.2.2	C.1	<input checked="" type="checkbox"/>	C.1: It is mandatory to support at least one of the defined roles.
5/3	Peripheral	[3] or [7] 2.2.2	C.1	<input checked="" type="checkbox"/>	C.1: It is mandatory to support at least one of the defined roles.
5/4	Central	[3] or [7] 2.2.2	C.1	<input checked="" type="checkbox"/>	C.1: It is mandatory to support at least one of the defined roles.

**Table 6: Broadcaster Physical Layer**

Prerequisite: GAP 38/1 or GAP 5/1

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

**Table 7: Broadcaster Link Layer States**

Prerequisite: GAP 38/1 or GAP 5/1

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

**Table 8: Broadcaster Link Layer Advertising Event Types**

Prerequisite: GAP 38/1 or GAP 5/1

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

**Table 8a: Broadcaster Link Layer Advertising Data Types**

Prerequisite: GAP 38/1 or GAP 5/1

Item	Capability	Reference	Support	Status	Comment
8a/1	AD Type – Service UUID	[3] 11.1.1, [4] 1.1	O	☑	
8a/2	AD Type – Local Name	[3] 11.1.2, [4] 1.2	O	☑	
8a/3	AD Type – Flags	[3] 11.1.3, [4] 1.3	C.2	☑	C.2: Mandatory IF (5/1 “Broadcaster, LE Only”) is supported; Optional IF SUMICS 34/11 “CSSv7 LE Host” is supported; otherwise Excluded.
8a/4	AD Type – Manufacturer Specific	[3] 11.1.4, [4] 1.4	O	☑	
8a/5	AD Type – TXPower Level	[3] 11.1.5, [4] 1.5	O	☑	
8a/6	AD Type – Security Manager Out of Band (OOB)	[3] 11.1.6, [4] 1.6	C.1	☑	C.1: Optional if SM2/4 (OOB supported) is supported, otherwise Excluded.
8a/7	AD Type – Security Manager TK	[3] 11.1.7, [4] 1.7	O	☑	
8a/8	AD Type – Slave Connection	[3] 11.1.8, [4] 1.8	O	☑	
8a/9	AD Type - Service Solicitation	[3] 11.1.9, [4] 1.9	O	☑	
8a/10	AD Type – Service Data	[3] 11.1.10, [4] 1.10	O	☑	
8a/11	AD Type – Appearance	[4] 1.1.12	O	☑	
8a/12	AD Type - Public Target Address	[4] 1.1.13	O	☑	
8a/13	AD Type – Random Target Address	[4] 1.1.14	O	☑	
8a/14	AD Type – Advertising Interval	[4] 1.1.15	O	☑	
8a/15	AD Type – LE Bluetooth Device Address	[4] 1.1.16	O	☑	
8a/16	AD Type – LE Role	[4] 1.1.17	O	☑	
8a/17	AD Type - URI	[4] 1.1.18	C.3	☑	C.3: Optional IF CSS v7 LE Host is supported, otherwise Excluded.

**Table 9: Broadcaster Connection Modes and Procedures**

Prerequisite: GAP 38/1 or GAP 5/1

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

**Table 10: Broadcaster Broadcasting and Observing Features**

Prerequisite: GAP 38/1 or GAP 5/1

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

**Table 11: Broadcaster Privacy Feature**

Prerequisite: GAP 38/1 or GAP 5/1

Item	Capability	Reference	Support	Status	Comment
11/2	Resolvable Private Address Generation Procedure	[3] or [7] 10.8.2.2 or 1.3.2.2	C.1	☑	C.1: Mandatory IF 11/1 “Privacy Feature” is supported; Mandatory IF (GAP 0a/4 “Core Spec version 4.2” OR GAP 0a/5 “Core Spec version 5.0” OR GAP 0a/6 “Core Spec version 5.1”) AND (11/1 “Privacy Feature” AND NOT 11/3 “Non-Resolvable Private Address Generation Procedure”) is supported; Optional IF (GAP 0a/4 “Core Spec version 4.2” OR GAP 0a/5 “Core Spec version 5.0” OR GAP 0a/6 “Core Spec version 5.1”) is supported, otherwise Excluded.
11/3	Non-Resolvable Private Address Generation	[3] or [7] 10.8.2.1 or [9] 1.3.2.2	C.2	☑	C.2: Mandatory IF (GAP 0a/4 “Core Spec version 4.2” OR GAP 0a/5 “Core Spec version 5.0” OR GAP 0a/6 “Core Spec version 5.1”) AND (11/1 “Privacy Feature” AND NOT 11/2 “Resolvable Private Address Generation Procedure”) is supported; Optional IF (GAP 0a/4 “Core Spec version 4.2” OR GAP 0a/5 “Core Spec version 5.0” OR GAP 0a/6 “Core Spec version 5.1”) is supported, otherwise Excluded.

**Table 11a: Periodic Advertising Modes and Procedures**

Prerequisite: GAP 38/1 or GAP 5/1

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

Prerequisite: GAP 38/2 or GAP 5/2

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

**Table 13: Observer Link Layer States**

Prerequisite: GAP 38/2 or GAP 5/2

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

**Table 14: Observer Link Layer Scanning Types**

Prerequisite: GAP 38/2 or GAP 5/2

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

**Table 15: Observer Connection Modes and Procedures**

Prerequisite: GAP 38/2 or GAP 5/2

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

**Table 16: Observer Broadcasting and Observing Features**

Prerequisite: GAP 38/2 or GAP 5/2

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

**Table 17: Observer Privacy Feature**

Prerequisite: GAP 38/2 or GAP 5/2

Item	Capability	Reference	Support	Status	Comment
17/2	Non-Resolvable Private Address Generation Procedure	[3] or [7] 10.8.2.1 [9] 1.3.2.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory IF (17/1 "Privacy Feature" AND 14/2 "Active Scanning") is supported; Mandatory IF (17/1 "Privacy Feature" AND 14/2 "Active Scanning" AND NOT 17/4 "Resolvable Private Address Generation Procedure") is supported; Mandatory IF (GAP 0a/4 "Core Spec version 4.2" OR GAP 0a/5 "Core Spec version 5.0" OR GAP 0a/6 "Core Spec version 5.1") AND (17/1 "Privacy Feature" AND 14/2 "Active Scanning" AND NOT 17/4 "Resolvable Private Address Generation Procedure") is supported; Optional IF (GAP 0a/4 "Core Spec version 4.2" OR GAP 0a/5 "Core Spec version 5.0" OR GAP 0a/6 "Core Spec version 5.1") is supported, otherwise Excluded.
17/3	Resolvable Private Address Resolution Procedure	[3] or [7] 10.8.2.3 [5] 10.8 [9] 1.3.2.2	C.2	<input checked="" type="checkbox"/>	C.2: Optional IF 17/1 "Privacy Feature" is supported; Optional IF (GAP 0a/4 "Core Spec version 4.2" OR GAP 0a/5 "Core Spec version 5.0" OR GAP 0a/6 "Core Spec version 5.1") is supported, otherwise Excluded
17/4	Resolvable Private Address Generation Procedure	[3] or [7] 10.8.2.2 [5] 10.8 [9] 1.3.2.3	C.3	<input checked="" type="checkbox"/>	C.3: Mandatory IF (GAP 0a/4 "Core Spec version 4.2" OR GAP 0a/5 "Core Spec version 5.0" OR GAP 0a/6 "Core Spec version 5.1") AND (17/1 "Privacy Feature" AND 14/2 "Active Scanning" AND NOT 17/2 "Non-Resolvable Private Address Generation Procedure") is supported; Optional IF (GAP 0a/4 "Core Spec version 4.2" OR GAP 0a/5 "Core Spec version 5.0" OR GAP 0a/6 "Core Spec version 5.1") is supported, otherwise Excluded.

**Table 17a: Periodic Advertising Modes and Procedures**

Prerequisite: GAP 38/2 or GAP 5/2

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

Prerequisite: GAP 38/3 or GAP 5/3

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

**Table 19: Peripheral Link Layer States**

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	Reference	Support	Status	Comment
19/1	Standby	[3] or [7] 2.2.2	M	☑	
19/2	Advertising	[3] or [7] 2.2.2	M	☑	
19/3	Connection, Slave Role	[3] 2.2.2, 13.1.2.2 [7] 2.2.2	C.1	☑	C.1: Mandatory IF (SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") is supported; Mandatory IF (5/3 "LE Roles – Peripheral Role") is supported, otherwise Excluded.

**Table 20: Peripheral Link Layer Advertising Event Types**

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	Reference	Support	Status	Comment
20/1	Connectable and Scannable Undirected Event	[3] 2.2.2, 13.1.1.2 [7] 2.2.2	C.1	☑	C.1: Mandatory IF (SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec Version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") is supported; Mandatory IF (5/3 "LE Roles – Peripheral Role") is supported, otherwise Excluded.
20/2	Connectable Directed Event	[3] 2.2.2, 13.1.1.2 [7] 2.2.2	C.2	☑	C.2: Optional IF (SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec Version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") is supported; Optional IF (5/3 "LE Roles – Peripheral Role") is supported, otherwise Excluded.
20/3	Non-Connectable and Non-Scannable Undirected Event	[3] 2.2.2, 9.2.2.2, 9.3.1, 9.3.2 [7] 2.2.2	O	☑	
20/4	Scannable Undirected Event	[3] 2.2.2, 9.2.2.2, 9.3.1, 9.3.2 [7] 2.2.2	O	☑	

**Table 20A: Peripheral Link Layer Advertising Data Types**

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	Reference	Support	Status	Comment
20A/1	AD Type – Service UUID	[3] 11.1.1 [4] 1.1	C.1	☑	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/2	AD Type – Local Name	[3] 11.1.2 [4] 1.2	C.1	☑	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/3	AD Type – Flags	[3] 11.1.3 [4] 1.3	C.2	☑	C.2: Mandatory if 22/2 (Limited Discoverable Mode) or 22/3 (General Discoverable Mode) is supported, otherwise Optional.
20A/4	AD Type – Manufacturer Specific Data	[3] 11.1.4 [4] 1.4	C.1	☑	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/5	AD Type – TX Power Level	[3] 11.1.5 [4] 1.5	C.1	☑	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/6	AD Type – Security Manager Out of Band (OOB)	[3] 11.1.5 [4] 1.7	C.3	☑	C.3: Optional if (20/1 (Connectable Undirected Event) or 20/3 (Non-Connectable Undirected Event) or 20/4 (Scannable Undirected Event)) and SM2/4 (OOB supported) are supported, otherwise Excluded.
20A/7	AD Type – Security Manager TK Value	[3] 11.1.7 [4] 1.8	C.1	☑	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/8	AD Type – Slave Connection Interval Range	[3] 11.1.8 [4] 1.9	C.1	☑	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/9	AD Type - Service Solicitation	[3] 11.1.9 [4] 1.10	C.1	☑	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.

20A/10	AD Type – Service Data	[3] 11.1.10 [4] 1.1.1	C.1	<input checked="" type="checkbox"/>	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/11	AD Type – Appearance	[4] 1.1.12	C.1	<input checked="" type="checkbox"/>	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/12	AD Type - Public Target Address	[4] 1.1.13	C.1	<input checked="" type="checkbox"/>	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/13	AD Type – Random Target Address	[4] 1.1.14	C.1	<input checked="" type="checkbox"/>	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/14	AD Type – Advertising Interval	[4] 1.1.15	C.1	<input checked="" type="checkbox"/>	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/15	AD Type – LE Bluetooth Device Address	[4] 1.1.16	C.1	<input checked="" type="checkbox"/>	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/16	AD Type – LE Role	[4] 1.1.17	C.1	<input checked="" type="checkbox"/>	C.1: Optional if (20/1 or 20/3 or 20/4) is supported, otherwise Excluded.
20A/17	AD Type – URI	[10] 1.1.18	C.4	<input checked="" type="checkbox"/>	C.4: Optional IF SUMICS 34/11 “CSS v7 LE Host” is supported, otherwise Excluded.

**Table 21: Peripheral Link Layer Control Procedures**

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

Item	Capability	Reference	Support	Status	Comment
21/1	Connection Update Procedure	[3] 2.2.2, 13.1.2.2 [7] 2.2.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory if ((SUMICS 31/17 “Core Spec Version 4.2” OR SUMICS 31/18 “Core Spec Version 4.2+HS” OR SUMICS 31/19 “Core Spec version 5.0” OR SUMICS 31/20 “Core Spec version 5.1”) is supported; Mandatory IF (5/3 “LE Roles – Peripheral Role”) is supported, otherwise Excluded.
21/2	Channel Map Update Procedure	[3] 2.2.2, 13.1.2.2 [7] 2.2.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory if ((SUMICS 31/17 “Core Spec Version 4.2” OR SUMICS 31/18 “Core Spec Version 4.2+HS” OR SUMICS 31/19 “Core Spec version 5.0” OR SUMICS 31/20 “Core Spec version 5.1”) is supported; Mandatory IF (5/3 “LE Roles – Peripheral Role”) is supported, otherwise Excluded.
21/3	Encryption Procedure	[3] 2.2.2, 13.1.2.2 [7] 2.2.2	C.2	<input checked="" type="checkbox"/>	C.2: Optional IF (SUMICS 31/17 “Core Spec Version 4.2” OR SUMICS 31/18 “Core Spec Version 4.2+HS” OR SUMICS 31/19 “Core Spec version 5.0” OR SUMICS 31/20 “Core Spec version 5.1”) is supported; Optional IF (5/3 “LE Roles – Peripheral Role”) is supported, otherwise Excluded.
21/4	Feature Exchange Procedure	[3] 2.2.2, 13.1.2.2 [7] 2.2.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory if ((SUMICS 31/17 “Core Spec Version 4.2” OR SUMICS 31/18 “Core Spec Version 4.2+HS” OR SUMICS 31/19 “Core Spec version 5.0” OR SUMICS 31/20 “Core Spec version 5.1”) is supported; Mandatory IF (5/3 “LE Roles – Peripheral Role”) is supported, otherwise Excluded.
21/5	Version Exchange Procedure	[3] 2.2.2, 13.1.2.2 [7] 2.2.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory if ((SUMICS 31/17 “Core Spec Version 4.2” OR SUMICS 31/18 “Core Spec Version 4.2+HS” OR SUMICS 31/19 “Core Spec version 5.0” OR SUMICS 31/20 “Core Spec version 5.1”) is supported; Mandatory IF (5/3 “LE Roles – Peripheral Role”) is supported, otherwise Excluded.
21/6	Termination Procedure	[3] 2.2.2, 13.1.2.2 [7] 2.2.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory if ((SUMICS 31/17 “Core Spec Version 4.2” OR SUMICS 31/18 “Core Spec Version 4.2+HS” OR SUMICS 31/19 “Core Spec version 5.0” OR SUMICS 31/20 “Core Spec version 5.1”) is supported; Mandatory IF (5/3 “LE Roles – Peripheral Role”) is supported, otherwise Excluded.
21/7	LE Ping Procedure	[7] 2.2.2	C.3	<input checked="" type="checkbox"/>	C.3: Optional IF (SUMICS 31/17 “Core Spec Version 4.2” OR SUMICS 31/18 “Core Spec Version 4.2+HS” OR SUMICS 31/19 “Core Spec version 5.0” OR SUMICS 31/20 “Core Spec version 5.1”) is supported, otherwise Excluded.

**Table 22: Peripheral Discovery Modes and Procedures**

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	Reference	Support	Status	Comment
22/1	Non-Discoverable Mode	[3] 9.2.2, 13.1.1.1 [7] 9.2.2, 13.1	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory IF ((5/3 “LE Roles – Peripheral role” OR 42/1 “BR/EDR/LE – Non-Discoverable Mode”) is supported; Mandatory IF (SUMICS 31/17 “Core Spec Version 4.2” OR SUMICS 31/18 “Core Spec Version 4.2+HS” OR SUMICS 31/19 “Core Spec version 5.0” OR SUMICS 31/20 “Core Spec version 5.1”) is supported, otherwise Excluded.
22/2	Limited Discoverable Mode	[3] 9.2.3, 13.1.1.2 [7] 9.2.3, 13.1	C.2	<input checked="" type="checkbox"/>	C.2: Mandatory IF (1/2 “BR/EDR/LE – Limited Discoverable Mode”) is supported; Optional IF ((5/3 “LE Roles – Peripheral role”) is supported, Optional IF (SUMICS 31/17 “Core Spec Version 4.2” OR SUMICS 31/18 “Core Spec Version 4.2+HS” OR SUMICS 31/19 “Core Spec version 5.0” OR SUMICS 31/20 “Core Spec version 5.1”) is supported, otherwise Excluded.
22/3	General Discoverable Mode	[3] 9.2.4, 13.1.1.2 [7] 9.2.4, 13.1	C.3	<input checked="" type="checkbox"/>	C.3: Mandatory IF (1/3 “BR/EDR/LE – General Discoverable Mode”) is supported; Mandatory IF (5/3 “LE Roles – Peripheral role” AND (NOT 22/2 “Limited Discoverable Mode”)) is supported; Optional IF (5/3 “LE Roles – Peripheral role” AND 22/2 “Limited Discoverable Mode”) is supported; Mandatory IF ((SUMICS 31/17 “Core Spec Version 4.2” OR SUMICS 31/18 “Core Spec Version 4.2+HS” OR SUMICS 31/19 “Core Spec version 5.0” OR SUMICS 31/20 “Core Spec version 5.1”) AND 38/3 “BR/EDR/LE Roles – Peripheral Role” AND (NOT 22/2 “Limited Discoverable Mode”)) is supported; Optional IF ((SUMICS 31/17 “Core Spec Version 4.2” OR SUMICS 31/18 “Core Spec Version 4.2+HS” OR SUMICS 31/19 “Core Spec version 5.0” OR SUMICS 31/20 “Core Spec version 5.1”) AND 38/3 “BR/EDR/LE Roles – Peripheral Role” AND 22/2 “Limited Discoverable Mode”) is supported, otherwise Excluded.
22/4	Name Discovery Procedure	[3] or [7] 9.2.7	C.4	<input checked="" type="checkbox"/>	C.4: Optional IF (5/3 “LE Roles – Peripheral Role”) is supported; Optional IF (SUMICS 31/17 “Core Spec Version 4.2” OR SUMICS 31/18 “Core Spec Version 4.2+HS” OR SUMICS 31/19 “Core Spec version 5.0” OR SUMICS 31/20 “Core Spec version 5.1”) is supported, otherwise Excluded.

**Table 23: Peripheral Connection Modes and Procedures**

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	Reference	Support	Status	Comment
23/1	Non-Connectable Mode	[3] 9.3.2, 13.1.2.1 [7] 9.3.2	M	☑	
23/2	Directed Connectable Mode	[3] 9.3.3, 13.1.2.2 [7] 9.3.3	C.1	☑	C.1: Optional IF (5/3 "LE Roles – Peripheral Role" OR ((SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") AND 38/3 "BR/EDR/LE Roles – Peripheral Role")) is supported, otherwise Excluded.
23/3	Undirected Connectable Mode	[3] 9.3.4, 13.1.2.2 [7] 9.3.4	C.2	☑	C.2: Mandatory IF (5/3 "LE Roles – Peripheral Role" OR ((SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") AND 38/3 "BR/EDR/LE Roles – Peripheral Role")) is supported, otherwise Excluded.
23/4	Connection Parameter Update Procedure	[3] 9.3.9, 13.1.2.1 [7] 9.3.9	C.1	☑	C.1: Optional IF (5/3 "LE Roles – Peripheral Role" OR ((SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") AND 38/3 "BR/EDR/LE Roles – Peripheral Role")) is supported, otherwise Excluded.
23/5	Terminate Connection Procedure	[3] 9.3.10, 13.1.2.1 [7] 9.3.10	C.2	☑	C.2: Mandatory IF (5/3 "LE Roles – Peripheral Role" OR ((SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") AND 38/3 "BR/EDR/LE Roles – Peripheral Role")) is supported, otherwise Excluded.

**Table 24: Peripheral Bonding Modes and Procedures**

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	Reference	Support	Status	Comment
24/1	Non-Bondable Mode	[3], 9.4.2	M	☑	
24/2	Bondable Mode	[3] 9.4.3, 13.1.4.2 [7] 9.4.3, 13.2	C.1	☑	C.1: Optional IF 5/3 "LE Only – Peripheral role" is supported; Optional IF ((SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") AND 38/3 "BR/EDR/LE Roles – Peripheral Role") is supported, otherwise Excluded.
24/3	Bonding Procedure	[3] 9.4.4, 13.1.4.2 [7] 9.4.4, 13.2	C.1	☑	C.1: Optional IF 5/3 "LE Only – Peripheral role" is supported; Optional IF ((SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") AND 38/3 "BR/EDR/LE Roles – Peripheral Role") is supported, otherwise Excluded.
24/4	Multiple Bonds	[3] 9.4, 13.1.4.2 [7] 9.4	C.2	☑	C.2: Optional if 24/2 (Bondable Mode) is supported, otherwise Excluded.

**Table 25: Peripheral Security Aspects Features**

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	Reference	Support	Status	Comment
25/1	Security Mode 1	[3] 10.2.1, 13.1.2.2, [7] 10.2.1	C.2	☑	C.2: Optional IF 5/3 "LE Roles – Peripheral Role" is supported; Optional IF ((SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") AND 38/3 "BR/EDR/LE Roles – Peripheral Role") is supported, otherwise Excluded.
25/3	Authentication Procedure	[3] 10.2.3, 13.1.2.2, [7] 10.2.3	C.2	☑	C.2: Optional IF 5/3 "LE Roles – Peripheral Role" is supported; Optional IF ((SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") AND 38/3 "BR/EDR/LE Roles – Peripheral Role") is supported, otherwise Excluded.
25/4	Authorization Procedure	[3] 10.2.5, 13.1.2.2, [7] 10.2.5	C.2	☑	C.2: Optional IF 5/3 "LE Roles – Peripheral Role" is supported; Optional IF ((SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") AND 38/3 "BR/EDR/LE Roles – Peripheral Role") is supported, otherwise Excluded.
25/7	Authenticated Pairing (LE security mode 1 level 3)	[3] 10.3, 13.1.2.2 [7] 10.3	C.1	☑	C.1: Optional if 25/1 is supported, otherwise Excluded.
25/8	Unauthenticated Pairing (LE security mode 1 level 2)	[3] 10.3, 13.1.2.2 [7] 10.3	C.1	☑	C.1: Optional if 25/1 is supported, otherwise Excluded.

25/9	LE Security Mode 1 Level 4	[8] 10.3	C.3	✓	C.3: Mandatory IF SM2/5 (LE Secure Connections) is supported, otherwise Excluded.
25/10	Secure Connections Only Mode	[8] 10.2.4	C.4	✓	C.4 Optional IF 25/9 (LE Security Mode 1 Level 4) is supported, otherwise Excluded.

**Table 26: Peripheral Privacy Feature**

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

Item	Capability	Reference	Support	Status	Comment
26/2	Non-Resolvable Private Address Generation Procedure	[3] or [7] 10.7, 10.8.2.1 [9] 1.3.2.2	C.1	✓	C.1: Optional IF 26/1 "Privacy Feature" is supported; Optional IF (GAP 0a/4 "Core Spec version 4.2" OR GAP 0a/5 "Core Spec version 5.0" OR GAP 0a/6 "Core Spec version 5.1") is supported, otherwise Excluded.
26/3	Resolvable Private Address Generation Procedure	[3] or [7] 10.7, 10.8.2.2 [9] 1.3.2.2	C.2	✓	C.2: Mandatory IF ((GAP 0a/4 "Core Spec version 4.2" OR GAP 0a/5 "Core Spec version 5.0" OR GAP 0a/6 "Core Spec version 5.1") AND 26/1 "Privacy Feature") is supported; Optional IF (GAP 0a/4 "Core Spec version 4.2" OR GAP 0a/5 "Core Spec version 5.0" OR GAP 0a/6 "Core Spec version 5.1") is supported, otherwise Excluded.
26/4	Resolvable Private Address Resolution Procedure	[3] or [7] 10.7, 10.8.2.3 [9] 1.3.2.2	C.3	✓	C.3: Mandatory IF (GAP 0a/4 "Core Spec version 4.2" OR GAP 0a/5 "Core Spec version 5.0" OR GAP 0a/6 "Core Spec version 5.1") AND 26/1 "Privacy Feature" is supported; Optional IF (GAP 0a/4 "Core Spec version 4.2" OR GAP 0a/5 "Core Spec version 5.0" OR GAP 0a/6 "Core Spec version 5.1") is supported, otherwise Excluded.

**Table 27: Peripheral GAP Characteristics**

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	Reference	Support	Status	Comment
27/1	Device Name	[3] or [7] 12.1	M	✓	
27/2	Appearance	[3] or [7] 12.2	M	✓	
27/5	Peripheral Preferred Connection Parameters	[3] or [7] 12.5	C.3	✓	C.3: Optional IF 5/3 "LE Roles – Peripheral Role" OR ((GAP 0a/4 "Core Spec version 4.2" OR GAP 0a/5 "Core Spec version 5.0" OR GAP 0a/6 "Core Spec version 5.1") AND 38/3 "BR/EDR/LE Roles – Peripheral Role") is supported, otherwise Excluded.
27/6	Writeable Device Name	[3] or [7] 12.1	C.3	✓	C.3: Optional IF 5/3 "LE Roles – Peripheral Role" OR ((GAP 0a/4 "Core Spec version 4.2" OR GAP 0a/5 "Core Spec version 5.0" OR GAP 0a/6 "Core Spec version 5.1") AND 38/3 "BR/EDR/LE Roles – Peripheral Role") is supported, otherwise Excluded.
27/9	Central Address Resolution	[8] 12	C.5	✓	C.5: Optional if LL 2/5 (Resolution of Private Addresses) is supported, otherwise Excluded.

**Table 27a: Periodic Advertising Modes and Procedures**

Prerequisite: (GAP 5/3 "Peripheral LE-Only" OR GAP 38/3 "Peripheral BR/EDR/LE") AND NOT (GAP 0a/4 "Core Spec version 4.2" OR GAP 0a/5 "Core Spec version 5.0")

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

Prerequisite: GAP 38/4 or GAP 5/4

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

**Table 29: Central Link Layer States**

Prerequisite: GAP 38/4 or GAP 5/4

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

**Table 30: Central Link Layer Scanning Types**

Prerequisite: GAP 38/4 or GAP 5/4

Item	Capability	Reference	Support	Status	Comment
30/1	Passive Scanning	[3] or [7] 2.2.2	O	☑	
30/2	Active Scanning	[3] or [7] 2.2.2	C.1	☑	C.1: Mandatory if (5/4 or 38/4) is supported. Optional if 30/1 and (5/4 OR 38/4) is supported, otherwise Excluded.

**Table 31: Central Link Layer Control Procedures**

Prerequisite: GAP 38/4 or GAP 5/4

Item	Capability	Reference	Support	Status	Comment
31/1	Connection Update Procedure	[3] or [7] 2.2.2	M	☑	
31/2	Channel Map Update Procedure	[3] or [7] 2.2.2	M	☑	
31/3	Encryption Procedure	[3] or [7] 2.2.2	O	☑	
31/4	Feature Exchange Procedure	[3] or [7] 2.2.2	M	☑	
31/5	Version Exchange Procedure	[3] or [7] 2.2.2	M	☑	
31/6	Termination Procedure	[3] or [7] 2.2.2	M	☑	
31/7	LE Ping Procedure	[7] 2.2.2	C.1	☑	C.1: Optional IF ((SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") is supported, otherwise Excluded.

**Table 32: Central Discovery Modes and Procedures**

Prerequisite: GAP 38/4 or GAP 5/4

Item	Capability	Reference	Support	Status	Comment
32/1	Limited Discovery Procedure	[3] 9.2.5, 13.2 [7] 9.2.5	C.2	☑	C.2: Optional IF (5/4 "LE Only – Central role" OR 40/2 "BR/EDR/LE – Limited Discovery") is supported, Optional IF (SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") is supported, otherwise Excluded.
32/2	General Discovery Procedure	[3] 9.2.6, 13.2 [7] 9.2.6	C.1	☑	C.1: Mandatory IF (5/4 "LE Only – Central role" OR 40/1 "BR/EDR/LE – General Discovery") is supported; Mandatory IF (SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") is supported, otherwise Excluded.
32/3	Name Discovery Procedure	[3] 9.2.7, 13.2 [7] 9.2.7	C.3	☑	C.3: Optional IF (5/4 "LE Only – Central role" OR 40/4 "BR/EDR/LE – Name Discovery") is supported, otherwise Optional IF (SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") is supported, otherwise Excluded

**Table 33: Central Connection Modes and Procedures**

Prerequisite: GAP 38/4 or GAP 5/4

Item	Capability	Reference	Support	Status	Comment
33/1	Auto Connection Establishment Procedure	[3] or [7] 9.3.5	C.3	☑	C.3: Optional IF (5/4 "LE Only – Central role" OR 40/5 "BR/EDR/LE – Link Establishment") is supported; Optional IF (SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") is supported, otherwise Excluded.
33/2	General Connection Establishment	[3] 9.3.6, 13.3.1 [7] 9.3.6	C.1	☑	C.1: Mandatory IF ((5/4 "LE Only – Central role" OR 40/5 "BR/EDR/LE – Link Establishment") AND 36/1 "Privacy Feature") is supported; Optional IF ((5/4 "LE Only – Central role" OR 40/5 "BR/EDR/LE – Link Establishment" AND (NOT 36/1 "Privacy Feature")) is supported; Optional IF ((SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") is supported, otherwise Excluded.
33/3	Selective Connection Establishment	[3] or [7] 9.3.7	C.3	☑	C.3: Optional IF (5/4 "LE Only – Central role" OR 40/5 "BR/EDR/LE – Link Establishment") is supported; Optional IF (SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") is supported, otherwise Excluded.
33/4	Direct	[3] or [7]	C.2	☑	C.2: Mandatory IF (5/4 "LE Only – Central role" OR 40/5 "BR/EDR/LE – Link Establishment") is supported;

	Connection Establishment	9.3.8				Mandatory IF (SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") is supported, otherwise Excluded.
33/5	Connection Parameter Update Procedure	[3] or [7] 9.3.9	C.2	☑		C.2: Mandatory IF (5/4 "LE Only – Central role" OR 40/5 "BR/EDR/LE – Link Establishment") is supported; Mandatory IF (SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") is supported, otherwise Excluded.
33/6	Terminate Connection Procedure	[3] or [7] 9.3.10	C.2	☑		C.2: Mandatory IF (5/4 "LE Only – Central role" OR 40/5 "BR/EDR/LE – Link Establishment") is supported; Mandatory IF (SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") is supported, otherwise Excluded.

**Table 34: Central Bonding Modes and Procedures**

Prerequisite: GAP 38/4 or GAP 5/4

Item	Capability	Reference	Support	Status	Comment
34/1	Non-Bondable Mode	[3] 9.4.2, 13.1.3 [7] 9.4.2, 13.2	C.1	☑	C.1: Mandatory IF (5/4 "LE Only – Central role" OR 39/5 "BR/EDR/LE – Non-Bondable Mode") is supported; Mandatory IF (SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") is supported, otherwise Excluded.
34/2	Bondable Mode	[3] 9.4.3, 13.1.3 [7] 9.4.3, 13.2	C.2	☑	C.2: Optional IF (5/4 "LE Only – Central role" OR 39/6 "BR/EDR/LE – Bondable Mode") is supported; Optional IF (SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") is supported, otherwise Excluded.
34/3	Bonding Procedure	[3] 9.4.4, 13.1.3 [7] 9.4.4, 13.2	C.2	☑	C.2: Optional IF (5/4 "LE Only – Central role" OR 39/6 "BR/EDR/LE – Bondable Mode") is supported; Optional IF (SUMICS 31/17 "Core Spec Version 4.2" OR SUMICS 31/18 "Core Spec Version 4.2+HS" OR SUMICS 31/19 "Core Spec version 5.0" OR SUMICS 31/20 "Core Spec version 5.1") is supported, otherwise Excluded.

**Table 35: Central Security Features**

Prerequisite: GAP 38/4 or GAP 5/4

Item	Capability	Reference	Support	Status	Comment
35/1	Security Mode 1	[3] or [7] 10.2.1	O	☑	
35/3	Authentication Procedure	[3] or [7] 10.3	O	☑	
35/4	Authorization Procedure	[3] or [7] 10.5	O	☑	
35/7	Authenticated Pairing (LE security mode 1 level 3)	[3] or [7] 10.3	C.1	☑	C.1: Optional if 35/1 is supported, otherwise Excluded.
35/8	Unauthenticated Pairing (LE security mode 1 level 2)	[3] or [7] 10.3	C.1	☑	C.1: Optional if 35/1 is supported, otherwise Excluded.
35/9	LE Security Mode 1 Level 4	[8] 10.3	C.2	☑	C.2: Mandatory IF SM2/5 (LE Secure Connections) is supported, otherwise Excluded.
35/10	Secure Connections Only Mode	[8] 10.2.4	C.3	☑	C.3: Optional IF 35/9 (LE Security Mode 1 Level 4) is supported, otherwise Excluded.

**Table 36: Central Privacy Feature**

Prerequisite: GAP 38/4 or GAP 5/4

Item	Capability	Reference	Support	Status	Comment
36/2	Non-Resolvable Private Address Generation Procedure	[3] or [7] 10.7, 10.8.2.1 [5] 10.7 [9] 1.3.2.2	C.1	☑	C.1: Mandatory IF 36/1 "Privacy Feature" is supported; Optional IF (GAP 0a/4 "Core Spec version 4.2" OR GAP 0a/5 "Core Spec version 5.0" OR GAP 0a/6 "Core Spec version 5.1") is supported
36/3	Resolvable Private Address Resolution Procedure	[3] or [7] 10.7, 10.8.2.3 [9] 1.3.2.2	C.2	☑	C.2: Mandatory IF (GAP 0a/4 "Core Spec version 4.2" OR GAP 0a/5 "Core Spec version 5.0" OR GAP 0a/6 "Core Spec version 5.1") AND 36/1 "Privacy Feature" is supported; Optional IF (GAP 0a/4 "Core Spec version 4.2" OR GAP 0a/5 "Core Spec version 5.0" OR GAP 0a/6 "Core Spec version 5.1") is supported, otherwise Excluded.
36/5	Resolvable Private Address Generation Procedure	[3] or [7] 10.7, 10.8.2.3 [5] 10.7 [9] 1.3.2.3	C.4	☑	C.4: Mandatory IF (36/1 "Privacy Feature" AND 14/2 "Active Scanning" AND NOT 36/2 "Non-Resolvable Private Address Generation Procedure") is supported; Mandatory IF (GAP 0a/4 "Core Spec version 4.2" OR GAP 0a/5 "Core Spec version 5.0" OR GAP 0a/6 "Core Spec version 5.1") AND 36/1 "Privacy Feature" is supported; Optional IF (GAP 0a/4 "Core Spec version 4.2" OR GAP 0a/5 "Core Spec version 5.0" OR GAP 0a/6 "Core Spec version 5.1") is supported, otherwise Excluded.

**Table 37: Central GAP Characteristics**

Prerequisite: GAP 38/4 or GAP 5/4

Item	Capability	Reference	Support	Status	Comment
37/1	Device Name	[3] or [7] 12.1	M	☑	
37/2	Appearance	[3] or [7] 12.2	M	☑	
37/3	Central Address Resolution	[8] 12.4	C.1	☑	C.1: Mandatory IF LL 2/5 (Resolution of Private Addresses) is supported, otherwise Excluded.

**Table 37a: Periodic Advertising Modes and Procedures**

Prerequisite: (GAP 5/4 “Peripheral LE-Only” OR GAP 38/4 “Peripheral BR/EDR/LE”) AND NOT (GAP 0a/4 “Core Spec version 4.2” OR GAP 0a/5 “Core Spec version 5.0”)

Item	Capability	Reference	Support	Status	Comment
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**Table 38: BR/EDR/LE Roles**

Prerequisite: GAP 0/3

Item	Capability	Reference	Support	Status	Comment
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**Table 41: Central BR/EDR/LE Security Aspects**

Item	Capability	Reference	Support	Status	Comment
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**Table 43: Peripheral BR/EDR/LE Security Aspects**

Prerequisite: GAP 38/3

Item	Capability	Reference	Support	Status	Comment
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**Table 44: Central Simultaneous BR/EDR and LE Transports**

Prerequisite: GAP 38/4

Item	Capability	Reference	Support	Status	Comment
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**Table 45: Peripheral Simultaneous BR/EDR and LE Transports**

Prerequisite: GAP 38/3

Item	Capability	Reference	Support	Status	Comment
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## Generic Attribute Profile

**Table 1: Generic Attribute Profile Support**

Item	Capability	Reference	Support	Status	Comment
1/1	Generic Attribute Profile (GATT) Client	[1] 2.2, [2] 12	C.1	☑	C.1: Optional to support IF 2/2 (Attribute Protocol Supported over LE); else IF 2/1 (Attribute Protocol Supported over BR/EDR) it is Mandatory to support at least one of 1/1 (GATT Client) OR 1/2 (GATT Server).
1/2	Generic Attribute Profile (GATT) Server	[1] 2.2, [2] 12	C.2	☑	C.2: Mandatory to support IF 2/2 (Attribute Protocol Supported over LE); else IF 2/1 (Attribute Protocol Supported over BR/EDR) it is Mandatory to support at least one of 1/1 (GATT Client) OR 1/2 (GATT Server).

**Table 1a: GATT role configuration**

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

**Table 2: Attribute Protocol Transport**

Item	Capability	Reference	Support	Status	Comment
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Item	Capability	Reference	Support	Status	Comment
2/2	Attribute Protocol Supported over LE	[1] 2.4	C.2	☑	C.2: Mandatory if (PROD 3/3 or 3/4 or 3/5) is supported, otherwise Excluded. (Mandatory if Host CC contains LE).

**Table 3: Generic Attribute Profile Feature Support, by client**

Prerequisite: GATT 1/1

Item	Capability	Reference	Support	Status	Comment
3/1	Exchange MTU	[1] 4.3.1	C.2	☑	C.2: Mandatory IF GATT 1/3 (Complete GATT Client) AND GATT 2/2 (LE) AND ATT 3/2 (Exchange MTU Request) is supported, otherwise Optional.
3/2	Discover All Primary Services	[1] 4.4.1	C.1	☑	C.1: Mandatory if 1/3 is supported, otherwise Optional.
3/3	Discover Primary Services by Service UUID	[1] 4.4.2	C.4	☑	C.4: Mandatory IF GATT 1/3 (Complete GATT Client) is supported OR ATT 3/6 (Find by Type Value Request), otherwise Optional.
3/4	Find Included Services	[1] 4.5.1	C.1	☑	C.1: Mandatory if 1/3 is supported, otherwise Optional.
3/5	Discover All characteristics of a Service	[1] 4.6.1	C.1	☑	C.1: Mandatory if 1/3 is supported, otherwise Optional.
3/6	Discover Characteristics by UUID	[1] 4.6.2	C.1	☑	C.1: Mandatory if 1/3 is supported, otherwise Optional.
3/7	Discover All Characteristic Descriptors	[1] 4.7.1	C.1	☑	C.1: Mandatory if 1/3 is supported, otherwise Optional.
3/8	Read Characteristic Value	[1] 4.8.1	C.1	☑	C.1: Mandatory if 1/3 is supported, otherwise Optional.
3/9	Read Using Characteristic UUID	[1] 4.8.2	C.1	☑	C.1: Mandatory if 1/3 is supported, otherwise Optional.
3/10	Read Long Characteristic Values	[1] 4.8.3	C.1	☑	C.1: Mandatory if 1/3 is supported, otherwise Optional.
3/11	Read Multiple Characteristic Values	[1] 4.8.4	C.1	☑	C.1: Mandatory if 1/3 is supported, otherwise Optional.
3/12	Write without Response	[1] 4.9.1	C.1	☑	C.1: Mandatory if 1/3 is supported, otherwise Optional.
3/14	Write Characteristic Value	[1] 4.9.3	C.1	☑	C.1: Mandatory if 1/3 is supported, otherwise Optional.
3/15	Write Long Characteristic Values	[1] 4.9.4	C.1	☑	C.1: Mandatory if 1/3 is supported, otherwise Optional.
3/16	Characteristic Value Reliable Writes	[1] 4.9.5	C.1	☑	C.1: Mandatory if 1/3 is supported, otherwise Optional.
3/17	Notifications	[1] 4.10.1	C.1	☑	C.1: Mandatory if 1/3 is supported, otherwise Optional.
3/18	Indications	[1] 4.11.1	M	☑	
3/19	Read Characteristic Descriptors	[1] 4.12.1	C.1	☑	C.1: Mandatory if 1/3 is supported, otherwise Optional.
3/20	Read Long Characteristic Descriptors	[1] 4.12.2	C.1	☑	C.1: Mandatory if 1/3 is supported, otherwise Optional.
3/21	Write Characteristic Descriptors	[1] 4.12.3	C.1	☑	C.1: Mandatory if 1/3 is supported, otherwise Optional.
3/22	Write Long Characteristic Descriptors	[1] 4.12.4	C.1	☑	C.1: Mandatory if 1/3 is supported, otherwise Optional.
3/23	Service Changed Characteristic	[1] 7.1	M	☑	
3/24	Configured Broadcast	[1] 2.7	C.3	☑	C.3: Optional if 3/14 is supported, otherwise Excluded.

**Table 3B: Profile Attribute Types and Formats, by client**

Prerequisite: GATT 1a/5 “Complete GATT Client layer over LE” OR GATT 1a/6 “Complete GATT Client layer over BR/EDR”

Item	Capability	Reference	Support	Status	Comment
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**Table 4: Attribute Profile Support, by server**

Prerequisite: GATT 1/2

Item	Capability	Reference	Support	Status	Comment
4/1	Exchange MTU	[1] 4.3.1	C.6	☑	C.6: Mandatory IF GATT 1/4 (Complete GATT Server) OR ATT 4/3 (Exchange MTU Response) is supported, otherwise Optional.
4/2	Discover All	[1] 4.4.1	M	☑	

Primary Services					
4/3	Discover Primary Services by Service UUID	[1]4.4.2	M	☑	
4/4	Find Included Services	[1]4.5.1	M	☑	
4/5	Discover All characteristics of a Service	[1]4.6.1	M	☑	
4/6	Discover Characteristics by UUID	[1]4.6.2	M	☑	
4/7	Discover All Characteristic Descriptors	[1]4.7.1	M	☑	
4/8	Read Characteristic Value	[1]4.8.1	M	☑	
4/9	Read Using Characteristic UUID	[1]4.8.2	M	☑	
4/10	Read Long Characteristic Values	[1]4.8.3	C.4	☑	C.4: Mandatory IF GATT 1a/7 "Complete GATT Server layer over LE" OR GATT 1a/8 "Complete GATT Server layer over BR/EDR" is supported, otherwise Optional.
4/12	Write without Response	[1]4.9.1	C.2	☑	C.2: Mandatory if 4/13 is supported, otherwise Optional.
4/14	Write Characteristic Value	[1]4.9.3	C.3	☑	C.3: Mandatory if 4/15 is supported, otherwise Optional.
4/15	Write Long Characteristic Values	[1]4.9.4	C.4	☑	C.4: Mandatory IF GATT 1a/7 "Complete GATT Server layer over LE" OR GATT 1a/8 "Complete GATT Server layer over BR/EDR" is supported, otherwise Optional.
4/16	Characteristic Value Reliable Writes	[1]4.9.5	C.4	☑	C.4: Mandatory IF GATT 1a/7 "Complete GATT Server layer over LE" OR GATT 1a/8 "Complete GATT Server layer over BR/EDR" is supported, otherwise Optional.
4/17	Notifications	[1]4.10.1	C.4	☑	C.4: Mandatory IF GATT 1a/7 "Complete GATT Server layer over LE" OR GATT 1a/8 "Complete GATT Server layer over BR/EDR" is supported, otherwise Optional.
4/18	Indications	[1]4.11.1	C.1	☑	C.1: Mandatory if service definitions on the server can be added, changed, or removed, otherwise Optional.
4/19	Read Characteristic Descriptors	[1]4.12.1	C.4	☑	C.4: Mandatory IF GATT 1a/7 "Complete GATT Server layer over LE" OR GATT 1a/8 "Complete GATT Server layer over BR/EDR" is supported, otherwise Optional.
4/20	Read Long Characteristic Descriptors	[1]4.12.2	C.4	☑	C.4: Mandatory IF GATT 1a/7 "Complete GATT Server layer over LE" OR GATT 1a/8 "Complete GATT Server layer over BR/EDR" is supported, otherwise Optional.
4/21	Write Characteristic Descriptors	[1]4.12.3	C.4	☑	C.4: Mandatory IF GATT 1a/7 "Complete GATT Server layer over LE" OR GATT 1a/8 "Complete GATT Server layer over BR/EDR" is supported, otherwise Optional.
4/22	Write Long Characteristic Descriptors	[1]4.12.4	C.4	☑	C.4: Mandatory IF GATT 1a/7 "Complete GATT Server layer over LE" OR GATT 1a/8 "Complete GATT Server layer over BR/EDR" is supported, otherwise Optional.
4/23	Service Changed Characteristic	[1]7.1	C.1	☑	C.1: Mandatory if service definitions on the server can be added, changed, or removed, otherwise Optional.
4/24	Configured Broadcast	[1]2.7	C.5	☑	C.5: Optional if 4/14 is supported, otherwise Excluded.
4/25	Execute Write Request with empty queue	[1]4.9.4, 4.9.5, 4.12.4	C.7	☑	C.7 (1 of 2): Mandatory IF (SUMICS 31/18 "Core Spec Version 5.0") AND (GATT 4/15 "Write Long Characteristic Values" OR GATT 4/16 "Characteristic Value Reliable Writes" OR GATT 4/22 "Write Long Characteristic Descriptors") is supported; C.7 (2 of 2): Optional IF (NOT SUMICS 31/18 "Core Spec Version 5.0") AND (GATT 4/15 "Write Long Characteristic Values" OR GATT 4/16 "Characteristic Value Reliable Writes" OR GATT 4/22 "Write Long Characteristic Descriptors") is supported, otherwise Excluded.

**Table 4B: Profile Attribute Types and Characteristic Formats**

Prerequisite: GATT 1a/7 "Complete GATT Server layer over LE" OR GATT 1a/8 "Complete GATT Server layer over BR/EDR"

Item	Capability	Reference	Support	Status	Comment
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**Table 5: Deleted**

Item	Capability	Reference	Support	Status	Comment
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**Table 6: SDP Interoperability**

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

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

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

**Table 8: Attribute Protocol Transport**

Item	Capability	Reference	Support	Status	Comment
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## Logical Link Control and Adaption Protocol

**Table 0: L2CAP Transport Configuration**

Item	Capability	Reference	Support	Status	Comment
0/2	Bluetooth low energy only	[2] 1.1	C.2	<input checked="" type="checkbox"/>	C.2 Mandatory if (PROD 1/1 or 1/4) and (PROD 3/3) are Supported (End Product or Host Subsystem with LE Host CC), otherwise excluded. Optional for PROD 1/2 or 1/3 (Components).

**Table 2: General Operation**

Item	Capability	Reference	Support	Status	Comment
2/40	Support of Low Energy signaling channel	[4] 2.1, 2.2	C.13	<input checked="" type="checkbox"/>	C.13: Mandatory IF L2CAP 0/2 "LE" OR L2CAP 0/3 "BR/EDR/LE" is supported, otherwise Excluded.
2/41	Support of command reject	[4] 4.10	C.13	<input checked="" type="checkbox"/>	C.13: Mandatory IF L2CAP 0/2 "LE" OR L2CAP 0/3 "BR/EDR/LE" is supported, otherwise Excluded.
2/42	Send Connection Parameter Update Request	[4] 4.20	C.14	<input checked="" type="checkbox"/>	C.14: Optional IF L2CAP 1/4 "LE Slave" is supported, otherwise Excluded.
2/43	Send Connection Parameter Update Response	[4] 4.21	C.15	<input checked="" type="checkbox"/>	C.15: Mandatory IF L2CAP 1/3 "LE Master" is supported, otherwise Excluded.
2/46	Support LE Credit Based Flow Control Mode	[5] 3.4	C.19	<input checked="" type="checkbox"/>	C.19: Optional IF (L2CAP 0/2 "LE" OR L2CAP 0/3 "BR/EDR/LE") is supported, otherwise Excluded.
2/47	Support for LE Data Channel	[1] 3.4	C.20	<input checked="" type="checkbox"/>	C.20: Mandatory IF L2CAP 2/46 "Support LE Credit Based Flow Control Mode" is supported, otherwise Excluded.

**Table 3: Configurable Parameters**

Item	Capability	Reference	Support	Status	Comment
3/1	Support of RTX timer	[1] 6.2.1	M	<input checked="" type="checkbox"/>	
3/12	Support minimum MTU size 23 octets	[4] 5.1	C.6	<input checked="" type="checkbox"/>	C.6: Mandatory if (0/2 or 0/3) is supported, otherwise Excluded.
3/16	Support Multiple Simultaneous LE Data Channels	[5] 3.4	C.10	<input checked="" type="checkbox"/>	C.10: Optional IF L2CAP 2/47 (Support LE Data Channel) AND SUMICS 21/13 (v4.1) is supported, otherwise Excluded.

**Table 1: Roles**

Item	Capability	Reference	Support	Status	Comment
1/3	LE Master	[4] 2	C.2	☑	C.2: Mandatory to support at least one of (1/3 or 1/4) if (0/2 OR 0/3) is supported, otherwise Excluded.
1/4	LE Slave	[4] 2	C.2	☑	C.2: Mandatory to support at least one of (1/3 or 1/4) if (0/2 OR 0/3) is supported, otherwise Excluded.
1/5	LE Data Channel Initiator	[5] 3.4	C.4	☑	C.4: Optional IF (L2CAP 0/2 (LE) OR L2CAP 0/3 (BR/EDR/LE)) AND SUMICS 21/13 (v4.1) AND L2CAP 2/46 (LE Credit Based Flow Control Mode) is supported, otherwise Excluded.
1/6	LE Data Channel Acceptor	[5] 3.4	C.5	☑	C.5: Mandatory IF (L2CAP 0/2 (LE) OR L2CAP 0/3 (BR/EDR/LE)) AND SUMICS 21/13 (v4.1) AND L2CAP 2/46 (LE Credit Based Flow Control Mode) is supported, otherwise Excluded.

## Low Energy Link Layer

**Table 1: Controller States/Roles**

Item	Capability	Reference	Support	Status	Comment
1/1	Advertising State	[1]: 4.4.2	C.1	☑	C.1: Mandatory to support at least one of (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	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").
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").
2/3	Static Address	[4] 1.3.2.1	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").
2/4	Generation of private addresses	[4] 1.3.2.2	C.3	☑	C.3: Excluded IF SUMICS 21/9 "Core v4.0" OR SUMICS 21/13 "Core v4.1" is supported, otherwise Optional.
2/5	Resolution of private addresses	[4] 1.3.2.3	C.2	☑	C.2: Mandatory if 2/4 (Generation of private address) is supported, otherwise Excluded.
2/6	Network Privacy Mode – Ignore Identity Address when IRK is present in resolving list	4.7	C.4	☑	C.4: Optional IF LL 2/5 "(Resolution of private addresses)" is supported, otherwise Excluded.

**Table 3: Protocol Advertising Features**

Item	Capability	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	[1] 4.4.2.4	C.5	☑	C.5: Optional if (Core Spec 4.1 or later) is supported, otherwise Excluded.

## Advertising

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**

Prerequisite: LL 1/2

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; 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	M	☑	
4/6	Extended Scanner filter policies	[4] 4.4.3	C.3	☑	C.3: Excluded IF SUMICS 21/9 "Core v4.0" OR SUMICS 21/13 "Core v4.1" is supported, otherwise Optional.

**Table 5: Protocol Initiating Features**

Prerequisite: LL 1/3

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

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	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.
6/22	Data Length Update Procedure	[4] 5.1.9	C.4	☑	C.4: Mandatory IF LL 9/6 (LE Data Packet Length Extension) is supported, otherwise Excluded.

**Table 7: Protocol Master Role Features**

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	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	☑	
7/19	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.
7/22	Data Length Update Procedure	[4] 5.1.9	C.4	☑	C.4: Mandatory IF LL 9/6 (LE Data Packet Length Extension) is supported, otherwise Excluded.

**Table 8: Physical Channels**

Item	Capability	Reference	Support	Status	Comment
8/1	Data channels (channel index 0 to 36)	[1]:1.4	C.1	☑	C.1: Mandatory if (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	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.
9/4	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" OR LL 9/14 "Connection CTE Request" OR LL 9/15 "Connection CTE Response" is supported, otherwise Optional.
9/6	LE Data Packet Length Extension	[4] 4.6.6	C.5	☑	C.5: Excluded IF SUMICS 21/9 "Core v4.0" OR SUMICS 21/13 "Core v4.1" is supported, otherwise Optional.

9/10	Channel Selection Algorithm #2	[5] 4.6.14	C.8	☑	C.8: Excluded IF (SUMICS 21/9 "Core v4.0" OR SUMICS 21/13 "Core v4.1" OR SUMICS 21/14 "Core v4.2") is supported, otherwise Mandatory IF (LL 3/9 "Extended Advertising" OR LL 4/7 "Extended Scanning") AND (LL 1/4 "Slave Role" OR LL 1/5 "Master Role" OR LL 3/10 "Periodic Advertising" OR LL 4/8 "Scanning for Periodic Advertising") is supported, otherwise Optional.
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**Table 10: Scatternet Capabilities**

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

**Table 11: Protocol Synchronizing Features**

Prerequisite: LL 1/3a "Synchronized State"

Item	Capability	Reference	Support	Status	Comment
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## Low Energy RF PHY

**Table 1: Bluetooth LE RF Capabilities**

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

## Security Manager Protocol

**Table 1: Roles**

Item	Capability	Reference	Support	Status	Comment
1/1	Master Role (Initiator)	[1] 2.4	C.1	☑	C.1: Mandatory to support if 1/2 (Slave Role (Responder)) is NOT supported, otherwise Optional
1/2	Slave Role (Responder)	2.4	C.2	☑	C.2: Optional IF ((SUMICS 31/10 "Core 4.0" OR SUMICS 31/11 "Core 4.0+HS") AND GAP 5/3 "LE Roles – Peripheral Role") OR ((SUMICS 31/15 "Core 4.1" OR SUMICS 31/16 "4.1+HS" OR SUMICS 31/17 "Core 4.2" OR SUMICS 31/18 "Core 4.2+HS" OR SUMICS 31/19 "Core 5.0" OR SUMICS 31/20 "Core 5.1") AND (GAP 5/3 "LE Roles – Peripheral Role" OR GAP 38/3 "BR/EDR/LE Roles – Peripheral Role"))

**Table 2: Security Properties**

Item	Capability	Reference	Support	Status	Comment
2/1	Authenticated MITM protection	[1] 2.3.1	O	☑	
2/2	Unauthenticated no MITM protection	[1] 2.3.1	C.1	☑	C.1: Mandatory if 2/1 is supported, otherwise Optional.
2/3	No security requirements	[1] 2.3.1	M	☑	
2/4	OOB supported	[1] 2.3.1	O	☑	
2/5	Slave Role (Responder)	2.3.1	C.2	☑	C.2: Optional IF (SUMICS 31/17 "Core 4.2" OR 31/18 "Core 4.2 +HS" OR SUMICS 31/19 "Core 5.0" OR SUMICS 31/20 "Core 5.1") are supported, otherwise Excluded.

**Table 3: Encryption Key Size**

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

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

**Table 4: Pairing Method**

Item	Capability	Reference	Support	Status	Comment
4/1	Just Works	[1] 2.3.5	O	☑	
4/2	Passkey Entry	[1] 2.3.5	C.1	☑	C.1: If 2/1 is supported, at least one of these features shall be supported.
4/3	Out of Band	[1] 2.3.5	C.1	☑	C.1: If 2/1 is supported, at least one of these features shall be supported.

**Table 5: Security Initiation**

Item	Capability	Reference	Support	Status	Comment
5/1	Encryption Setup using STK	[1] 2.4	C.3	☑	C.3: Mandatory if (2/1 or 2/2 or 2/4) is supported, otherwise Excluded.
5/2	Encryption Setup using LTK	[1] 2.4	O	☑	
5/3	Slave Initiated Security	[1] 2.4.6	C.1	☑	C.1: Optional if 1/2 is supported, otherwise Excluded.
5/4	Slave Initiated Security – Master response	[1] 2.4.6	C.2	☑	C.2: Mandatory if 1/1 is supported, otherwise Excluded.

**Table 6: Signing Algorithm**

Item	Capability	Reference	Support	Status	Comment
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**Table 7: Key Distribution**

Item	Capability	Reference	Support	Status	Comment
7/1	Encryption Key	GAP 9.4.3	C.1	☑	C.1: Mandatory if (GAP 24/2 or 42/6) is supported, otherwise Optional.
7/2	Identity Key	GAP 10.7	C.2	☑	C.2: Mandatory if (GAP 26/3) is supported, otherwise Optional.