



## Project Details

Project Name	PANCHIP												
Product Type	Component (Tested)												
TCRL Version:	TCRL 2018-2												
Referenced Qualified Design(s)													
Previously Qualified Design Used in this Qualification(s)													
Listing Date	2019-03-15												
Declaration ID	D044139												
Product Listing(s)	<table><thead><tr><th>Name</th><th>Website</th><th>Category</th><th>Publish Date</th><th>Model Number</th><th>Description</th></tr></thead><tbody><tr><td>PANCHIP</td><td>www.panchip.com</td><td>Unique Products</td><td>3/15/2019 12:00:00 AM</td><td>PAN1020</td><td>The PAN1020 integrated circuit has a fully integrated radio transceiver and baseband processor for Bluetooth Low Energy. It can be used as an application processor as well as a data pump in fully hosted systems.</td></tr></tbody></table>	Name	Website	Category	Publish Date	Model Number	Description	PANCHIP	www.panchip.com	Unique Products	3/15/2019 12:00:00 AM	PAN1020	The PAN1020 integrated circuit has a fully integrated radio transceiver and baseband processor for Bluetooth Low Energy. It can be used as an application processor as well as a data pump in fully hosted systems.
Name	Website	Category	Publish Date	Model Number	Description								
PANCHIP	www.panchip.com	Unique Products	3/15/2019 12:00:00 AM	PAN1020	The PAN1020 integrated circuit has a fully integrated radio transceiver and baseband processor for Bluetooth Low Energy. It can be used as an application processor as well as a data pump in fully hosted systems.								
Member Company	suzhoupanchip												
Declaring Member Contact / Listing Contact Person	<table><tr><td>Name</td></tr><tr><td>Address</td></tr><tr><td>City</td></tr><tr><td>State</td></tr><tr><td>Country</td></tr><tr><td>Postal Code</td></tr></table>	Name	Address	City	State	Country	Postal Code						
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 suzhoupanchip ("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:**

lizemin
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# BLUETOOTH® 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).

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(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.

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

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

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

## 6. RECORD KEEPING AND AUDIT.

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

## 7. ADDITIONAL DISCLAIMERS.

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

Summary ICS

Table 21: Controller Configuration Specification Version

Item	Capability	Reference	Support	Status	Comment
21/14	Core Specification Version 4.2, Adopted 02 December 2014	Core 4.2	C.1	☑	C.1: Mandatory to support only one Controller Core Specification Version.
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
34/12	Core Specification Addendum 6 (CSA6)	CSA6	C.6	☑	C.6: Mandatory IF (11/6 "Profile Subsystem" OR 11/4 "Component (Tested)" OR 11/5 "Component (Non-Tested)") AND (((31/10 "Host Core: Core 4.0" OR 31/10a "Host Core: Core 4.0 + HS") AND (31/12 "Host Core: CSA3" OR 31/13 "Host Core: CSA4")) OR 31/14 "Host Core: Core 4.1" OR 31/15 "Host Core: Core 4.1 + HS" OR 31/16 "Host Core: Core 4.2" OR 31/17 "Host Core: Core 4.2 + HS" OR 31/18 "Host Core: Core 5.0") is supported, otherwise Excluded.

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	☑	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
1/2	Component (Tested)	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.

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	☑	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	☑	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	☑	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	☑	
6/2	Receiver	[3] or [7] 2.2.2	O	☑	

Table 7: Broadcaster Link Layer States

Prerequisite: GAP 38/1 or GAP 5/1

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

Table 8: Broadcaster Link Layer Advertising Event Types

Prerequisite: GAP 38/1 or GAP 5/1

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

Table 8a: Broadcaster Link Layer Advertising Data Types

Prerequisite: GAP 38/1 or GAP 5/1

Item	Capability	Reference	Support	Status	Comment
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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
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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	☑	



Table 13: Observer Link Layer States

Prerequisite: GAP 38/2 or GAP 5/2

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

Table 14: Observer Link Layer Scanning Types

Prerequisite: GAP 38/2 or GAP 5/2

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

Table 15: Observer Connection Modes and Procedures

Prerequisite: GAP 38/2 or GAP 5/2

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

Table 16: Observer Broadcasting and Observing Features

Prerequisite: GAP 38/2 or GAP 5/2

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

Table 17: Observer Privacy Feature

Prerequisite: GAP 38/2 or GAP 5/2

Item	Capability	Reference	Support	Status	Comment
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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
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Table 19: Peripheral Link Layer States

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	Reference	Support	Status	Comment
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Table 20: Peripheral Link Layer Advertising Event Types

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	Reference	Support	Status	Comment
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Table 20A: Peripheral Link Layer Advertising Data Types

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	Reference	Support	Status	Comment
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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
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Table 22: Peripheral Discovery Modes and Procedures

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	Reference	Support	Status	Comment
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Table 23: Peripheral Connection Modes and Procedures

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	Reference	Support	Status	Comment
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Table 24: Peripheral Bonding Modes and Procedures

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	Reference	Support	Status	Comment
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Table 25: Peripheral Security Aspects Features

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	Reference	Support	Status	Comment
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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
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Table 27: Peripheral GAP Characteristics

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	Reference	Support	Status	Comment
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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
30/2	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	☑	
31/4	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	☑

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

Prerequisite: GAP 38/4 or GAP 5/4

Item	Capability	Reference	Support	Status	Comment
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.

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

Prerequisite: GAP 38/4 or GAP 5/4

Item	Capability	Reference	Support	Status	Comment
33/4	Direct Connection Establishment	[3] or [7] 9.3.8	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.
33/5	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.

**Table 35: Central Security Features**

Prerequisite: GAP 38/4 or GAP 5/4

Item	Capability	Reference	Support	Status	Comment
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**Table 36: Central Privacy Feature**

Prerequisite: GAP 38/4 or GAP 5/4

Item	Capability	Reference	Support	Status	Comment
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**Table 37: Central GAP Characteristics**

Prerequisite: GAP 38/4 or GAP 5/4

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

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

Prerequisite: (GAP 5/4 “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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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	☑	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	☑	C.13: Mandatory IF L2CAP 0/2 “LE” OR L2CAP 0/3 “BR/EDR/LE” is supported, otherwise Excluded.
2/41	Support of command reject	[4] 4.10	C.13	☑	C.13: Mandatory IF L2CAP 0/2 “LE” OR L2CAP 0/3 “BR/EDR/LE” is supported, otherwise Excluded.
2/43	Send Connection Parameter Update Response	[4] 4.21	C.15	☑	C.15: Mandatory IF L2CAP 1/3 “LE Master” is supported, otherwise Excluded.

Table 3: Configurable Parameters

Item	Capability	Reference	Support	Status	Comment
3/1	Support of RTXtimer	[1] 6.2.1	M	☑	
3/12	Support minimum MTU size 23 octets	[4] 5.1	C.6	☑	C.6: Mandatory if (0/2 or 0/3) 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.

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).

Table 2: Device Addresses Types

Item	Capability	Reference	Support	Status	Comment
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”).

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.
3/3	Advertising Data	[1]: 4.4.2.3, 4.4.2.5, 4.4.2.6	M	☑	

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	☑	

Table 5: Protocol Initiating Features

Prerequisite: LL 1/3

Item	Capability	Reference	Support	Status	Comment
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Table 6: Protocol Slave Role Features

Prerequisite: LL 1/4

Item	Capability	Reference	Support	Status	Comment
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Table 7: Protocol Master Role Features

Item	Capability	Reference	Support	Status	Comment
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Table 8: Physical Channels

Item	Capability	Reference	Support	Status	Comment
8/2	Advertising channels (at least one of channel index 37, 38, 39)	[1]:1.4.1	M	☑	

Table 9: Supported Features

Item	Capability	Reference	Support	Status	Comment
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Table 10: Scatternet Capabilities

Item	Capability	Reference	Support	Status	Comment
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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
2/1	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	Reference	Support	Status	Comment
1/1	Command Complete Event	7.7.14	M	☑	
1/2	Command Status Event	7.7.15	M	☑	

Table 1a: Roles

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

Table 3: Controller Flow Control

Item	Capability	Reference	Support	Status	Comment
3/5	LE Read Buffer Size Command	7.8.2	M	☑	

Table 4: Controller Information

Item	Capability	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.

Table 5: Controller Configuration

Item	Capability	Reference	Support	Status	Comment
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	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.
6/18	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	Reference	Support	Status	Comment
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Table 8: Remote Information

Item	Capability	Reference	Support	Status	Comment
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Table 10: Connection State

Prerequisite: LL 9/6

Item	Capability	Reference	Support	Status	Comment
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Table 13: Physical Links

Item	Capability	Reference	Support	Status	Comment
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Table 14: Host Flow Control

Item	Capability	Reference	Support	Status	Comment
14/2	Set Event Mask Command	7.3.1	M	☑	
14/14	LE Set Event Mask Command	7.8.1	M	☑	

Table 15: Link Information

Item	Capability	Reference	Support	Status	Comment
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Table 16: Authentication and Encryption

Item	Capability	Reference	Support	Status	Comment
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Table 17: Testing

Item	Capability	Reference	Support	Status	Comment
17/7	LE Receiver Test Command	7.8.28	C.2	☑	C.2: Mandatory if (LL 1/2 or 1/3 or 3/2 or 3/4 or 3/5) is supported, otherwise Optional.
17/8	LE Transmitter Test Command	7.8.29	C.3	☑	C.3: Mandatory if (LL 1/1 or 1/3 or 4/3) is supported, otherwise Optional.
17/9	LE Test End Command	7.8.30	M	☑	

## 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
2/2	Attribute Protocol Supported over LE	[1] 2.4	C.2	☑	C2: 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
3/18	Indications	[1] 4.11.1	M	☑	
3/23	Service Changed Characteristic	[1] 7.1	M	☑	

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 Primary Services	[1] 4.4.1	M	☑	
4/3	Discover Primary Services by Service UUID	[1] 4.4.2	M	☑	
4/4	Find Included Services	[1] 4.5.1	M	☑	
4/5	Discover All characteristics of a Service	[1] 4.6.1	M	☑	
4/6	Discover Characteristics by UUID	[1] 4.6.2	M	☑	
4/7	Discover All Characteristic	[1] 4.7.1	M	☑	



Descriptors					
4/8	Read Characteristic Value	[1] 4.8.1	M	<input checked="" type="checkbox"/>	
4/9	Read Using Characteristic UUID	[1] 4.8.2	M	<input checked="" type="checkbox"/>	

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
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Table 8: Attribute Protocol Transport

Item	Capability	Reference	Support	Status	Comment
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Security Manager Protocol

Table 1: Roles

Item	Capability	Reference	Support	Status	Comment
1/1	Master Role (Initiator)	[1] 2.4	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support if 1/2 (Slave Role (Responder)) is NOT supported, otherwise Optional

Table 2: Security Properties

Item	Capability	Reference	Support	Status	Comment
2/3	No security requirements	[1] 2.3.1	M	<input checked="" type="checkbox"/>	

Table 3: Encryption Key Size

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

Item	Capability	Reference	Support	Status	Comment
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Table 4: Pairing Method

Item	Capability	Reference	Support	Status	Comment
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Table 5: Security Initiation

Item	Capability	Reference	Support	Status	Comment
5/4	Slave Initiated Security– Master response	[1] 2.4.6	C.2	<input checked="" type="checkbox"/>	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
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Attribute Protocol

Table 1: Attribute Protocol Support

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

Table 2: Attribute Protocol Transport

Item	Capability	Reference	Support	Status	Comment
2/2	Attribute Protocol Supported over LE	ATT 1.3	C.1	☑	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	☑	
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	☑	
4/16	Read by Group Type Request	ATT, 3.4.4.9	M	☑	
4/17	Read by Group Type Response	ATT, 3.4.4.10	M	☑	

Table 5: Attribute Protocol Transport

Item	Capability	Reference	Support	Status	Comment
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