



Project Details

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Project Name	CST34M98												
Product Type	End Product												
TCRL Version:	TCRL 2017-1												
Referenced Qualified Design(s)													
Previously Qualified Design Used in this Qualification(s)													
Listing Date	2018-01-26												
Declaration ID	D038308												
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>CST34M98</td><td>www.chipsea.com</td><td>Unique Products</td><td>1/26/2018 12:00:00 AM</td><td>CST34M98</td><td>CST34P98 is a bluetooth SOC chip with high integration and low power consumption, it bases on bluetooth 4.1 protocol stack. In addition, it contains with 8-bit RISC MCU core in-set, and 24-bit Sigma Delta high-accuracy ADC, 4*20 or 6*18 LCD drive circuit external setup.</td></tr></tbody></table>	Name	Website	Category	Publish Date	Model Number	Description	CST34M98	www.chipsea.com	Unique Products	1/26/2018 12:00:00 AM	CST34M98	CST34P98 is a bluetooth SOC chip with high integration and low power consumption, it bases on bluetooth 4.1 protocol stack. In addition, it contains with 8-bit RISC MCU core in-set, and 24-bit Sigma Delta high-accuracy ADC, 4*20 or 6*18 LCD drive circuit external setup.
Name	Website	Category	Publish Date	Model Number	Description								
CST34M98	www.chipsea.com	Unique Products	1/26/2018 12:00:00 AM	CST34M98	CST34P98 is a bluetooth SOC chip with high integration and low power consumption, it bases on bluetooth 4.1 protocol stack. In addition, it contains with 8-bit RISC MCU core in-set, and 24-bit Sigma Delta high-accuracy ADC, 4*20 or 6*18 LCD drive circuit external setup.								

Member Company	Chipsea Technologies (ShenZhen) Corp.												
Declaring Member Contact / Listing Contact Person	<table><tr><td>Name</td><td></td></tr><tr><td>Address</td><td></td></tr><tr><td>City</td><td></td></tr><tr><td>State</td><td></td></tr><tr><td>Country</td><td></td></tr><tr><td>Postal Code</td><td></td></tr></table>	Name		Address		City		State		Country		Postal Code	
Name													
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Complete the Project and Submit Product(s) for Qualification

By typing my name or other symbol of my signature into the "Signature" field below, I agree on behalf of Chipsea Technologies (ShenZhen) Corp. ("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:

weihuahang zhang

BLUETOOTH[®] LAUNCH STUDIO TERMS OF USE

Effective Date: November 10th, 2017.

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

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

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

1. MEMBERSHIP ACCOUNT REQUIREMENT.

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

2. BLUETOOTH QUALIFICATION PROCESS.

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

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

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- (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.

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5. CONFIDENTIALITY OF SUBMISSIONS.

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

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

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

6. RECORD KEEPING AND AUDIT.

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

7. ADDITIONAL DISCLAIMERS.

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

Appendix A

Summary ICS

Table 21: Controller Configuration Specification Version

Item	Capability	System Spec Reference	Support	Status	Comment
21/13	Core Spec Version 4.1, Adopted 03 December 2013	Core 4.1	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support only one Controller Core Specification Version.

Table 24: BR/EDR Controller Electrical Interfaces

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

Table 31: Host Configuration Specification Version

Item	Capability	System Spec Reference	Support	Status	Comment
31/15	Core Spec Version 4.1, Adopted 03 December 2013	Core 4.1 (See 14 in published SUMICS)	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support only one Host Core Specification Version.

Table 33: Core Host Electrical Interfaces

Item	Capability	System Spec Reference	Support	Status	Comment
33/1	UART Transport Layer	Vol 4, Part A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Table 34: LE Host Specification Parts

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

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

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

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

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

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

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

Table 52: Low Energy Host Core Specification

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

Item	Capability	System Spec Reference	Support	Status	Comment
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.

Table 22: EDR Features

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

Item	Capability	System Spec Reference	Support	Status	Comment
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Product Type

Table 1: Product Types

Item	Capability	System Spec 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	System Spec 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	System Spec 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	System Spec 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	System Spec Reference	Support	Status	Comment
0a/3	Core Spec version 4.1 (Core v4.1), Adopted 03 December 2013	[7] 3.2.1.1,9.2.3.2, 9.2.4.2, 9.2.5.2, 9.2.6.2, 9.3.3.2, 9.3.4.2, 9.3.5.2, 9.3.6.2, 9.3.7.2, 9.3.8.2, 9.3.11, 9.3.12, 10.3, 0.4.2, 10.8, 15	C.3	<input checked="" type="checkbox"/>	C.3: Mandatory if SUMICS 31/15 or 31/16 (Core Spec 4.1 or 4.1+HS) is supported, otherwise Excluded.

Table 1: Modes

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 2: Security Aspects

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

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 4: Establishment Procedures

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 5: LE Roles

Prerequisite: GAP 0/2

Item	Capability	System Spec 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.
5/3	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.

Table 6: Broadcaster Physical Layer

Prerequisite: GAP 38/1 or GAP 5/1

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

Table 7: Broadcaster Link Layer States

Prerequisite: GAP 38/1 or GAP 5/1

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

Table 8a: Broadcaster Link Layer Advertising Data Types

Prerequisite: GAP 38/1 or GAP 5/1

Item	Capability	System Spec Reference	Support	Status	Comment
8a/3	AD Type – Flags	[3] 11.1.3, [4] 1.3	C.2	<input checked="" type="checkbox"/>	C.2: Mandatory if 5/1 is supported, otherwise Optional.

Table 9: Broadcaster Connection Modes and Procedures

Prerequisite: GAP 38/1 or GAP 5/1

Item	Capability	System Spec Reference	Support	Status	Comment
9/1	Non-Connectable Mode	[3] or [7] 9.3.2	M	<input checked="" type="checkbox"/>	

Table 10: Broadcaster Broadcasting and Observing Features

Prerequisite: GAP 38/1 or GAP 5/1

Item	Capability	System Spec Reference	Support	Status	Comment
10/1	Broadcast Mode	[3] or [7] 9.1.1	M	<input checked="" type="checkbox"/>	

Table 11: Broadcaster Privacy Feature

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 11a: Periodic Advertising Modes and Procedures

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

Prerequisite: GAP 38/2 or GAP 5/2

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 13: Observer Link Layer States

Prerequisite: GAP 38/2 or GAP 5/2

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 14: Observer Link Layer Scanning Types

Prerequisite: GAP 38/2 or GAP 5/2

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 15: Observer Connection Modes and Procedures

Prerequisite: GAP 38/2 or GAP 5/2

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 16: Observer Broadcasting and Observing Features

Prerequisite: GAP 38/2 or GAP 5/2

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 17: Observer Privacy Feature

Prerequisite: GAP 38/2 or GAP 5/2

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

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	System Spec 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	System Spec 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 31/14 (Core Spec Version 4.1) OR SUMICS 31/15 (Core Spec Version 4.1+HS) OR SUMICS 31/16 (Core Spec Version 4.2) OR SUMICS 31/17 (Core Spec Version 4.2+HS)) is supported; Mandatory IF ((SUMICS 31/10 (Core Spec Version 4.0) OR SUMICS 31/10a (Core Spec Version 4.0+HS)) AND 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	System Spec 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 31/14 (Core Spec v4.1) OR SUMICS 31/15 (Core Spec Version 4.1+HS) OR SUMICS 31/16 (Core Spec Version 4.2) OR SUMICS 31/17 (Core Spec Version 4.2+HS)) is supported; Mandatory IF ((SUMICS 31/10 (Core Spec 4.0) OR SUMICS 31/10a (Core Spec Version 4.0+HS)) AND 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 31/14 (Core Spec Version 4.1) OR SUMICS 31/15 (Core Spec Version 4.1+HS) OR SUMICS 31/16 (Core Spec Version 4.2) OR SUMICS 31/17 (Core Spec Version 4.2+HS)) is supported; Optional IF ((SUMICS 31/10 (Core Spec 4.0) OR SUMICS 31/10a (Core Spec Version 4.0+HS)) AND 5/3 (LE Roles – Peripheral Role)) is supported, otherwise Excluded.

Table 20A: Peripheral Link Layer Advertising Data Types

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	System Spec Reference	Support	Status	Comment
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Item	Capability	System Spec Reference	Support	Status	Comment
20A/3	AD Type – Flags	[3] 11.1.3 [4] 1.3	C.2	<input checked="" type="checkbox"/>	C.2: Mandatory if 22/2 (Limited Discoverable Mode) or 22/3 (General Discoverable Mode) is supported, otherwise Optional.

Table 21: Peripheral Link Layer Control Procedures

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	System Spec 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 31/14 (Core Spec Version 4.1) OR SUMICS 31/15 (Core Spec Version 4.1+HS) OR SUMICS 31/16 (Core Spec Version 4.2) OR SUMICS 31/17 (Core Spec Version 4.2+HS)) is supported; Mandatory IF ((SUMICS 31/10 (Core Spec Version 4.0) OR SUMICS 31/10a (Core Spec Version 4.0+HS)) AND 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 31/14 (Core Spec Version 4.1) OR SUMICS 31/15 (Core Spec Version 4.1+HS) OR SUMICS 31/16 (Core Spec Version 4.2) OR SUMICS 31/17 (Core Spec Version 4.2+HS)) is supported; Mandatory IF ((SUMICS 31/10 (Core Spec Version 4.0) OR SUMICS 31/10a (Core Spec Version 4.0+HS)) AND 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 31/14 (Core Spec Version 4.1) OR SUMICS 31/15 (Core Spec Version 4.1+HS) OR SUMICS 31/16 (Core Spec Version 4.2) OR SUMICS 31/17 (Core Spec Version 4.2+HS)) is supported; Mandatory IF ((SUMICS 31/10 (Core Spec Version 4.0) OR SUMICS 31/10a (Core Spec Version 4.0+HS)) AND 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 31/14 (Core Spec Version 4.1) OR SUMICS 31/15 (Core Spec Version 4.1+HS) OR SUMICS 31/16 (Core Spec Version 4.2) OR SUMICS 31/17 (Core Spec Version 4.2+HS)) is supported; Mandatory IF ((SUMICS 31/10 (Core Spec Version 4.0) OR SUMICS 31/10a (Core Spec Version 4.0+HS)) AND 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 31/14 (Core Spec Version 4.1) OR SUMICS 31/15 (Core Spec Version 4.1+HS) OR SUMICS 31/16 (Core Spec Version 4.2) OR SUMICS 31/17 (Core Spec Version 4.2+HS)) is supported; Mandatory IF ((SUMICS 31/10 (Core Spec Version 4.0) OR SUMICS 31/10a (Core Spec Version 4.0+HS)) AND 5/3 (LE Roles – Peripheral Role))) is supported, otherwise Excluded.

Table 22: Peripheral Discovery Modes and Procedures

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	System Spec 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 ((SUMICS 31/10 (Core Spec Version 4.0) OR SUMICS 31/10a (Core Spec Version 4.0+HS)) AND (5/3 (LE Roles – Peripheral role) OR 42/1 (BR/EDR/LE – Non-Discoverable Mode))) is supported; Mandatory IF (SUMICS 31/14 (Core Spec Version 4.1) OR SUMICS 31/15 (Core Spec Version 4.1+HS) OR SUMICS 31/16 (Core Spec Version 4.2) OR SUMICS 31/17 (Core Spec Version 4.2+HS)) 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 ((SUMICS 31/10 (4.0) OR SUMICS 31/11 (4.0+HS)) AND 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; (cont.) C.3: Mandatory IF ((SUMICS 31/14 (Core Spec Version 4.1) OR SUMICS 31/15 (Core Spec Version 4.1+HS) OR SUMICS 31/16 (Core Spec Version 4.2) OR SUMICS 31/17 (Core Spec Version 4.2+HS)) AND 38/3 (BR/EDR/LE Roles – Peripheral Role) AND (NOT 22/2 (Limited Discoverable Mode))) is supported; (cont.2) C.3: Optional IF ((SUMICS 31/14 (Core Spec Version 4.1) OR SUMICS 31/15 (Core Spec Version 4.1+HS) OR SUMICS 31/16 (Core Spec Version 4.2) OR SUMICS 31/17 (Core Spec Version 4.2+HS)) AND 38/3 (BR/EDR/LE Roles – Peripheral Role) AND 22/2 (Limited Discoverable Mode)) is supported, otherwise Excluded.

Table 23: Peripheral Connection Modes and Procedures

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	System Spec Reference	Support	Status	Comment
23/1	Non-Connectable Mode	[3] 9.3.2, 13.1.2.1 [7] 9.3.2	M	<input checked="" type="checkbox"/>	
23/3	Undirected Connectable Mode	[3] 9.3.4, 13.1.2.2 [7] 9.3.4	C.2	<input checked="" type="checkbox"/>	C.2: Mandatory IF (5/3 (LE Roles – Peripheral Role) OR ((31/14 (SUMICS 31/14 (Core Spec Version 4.1) OR SUMICS 31/15 (Core Spec Version 4.1+HS) OR SUMICS 31/16 (Core Spec Version 4.2) OR SUMICS 31/17 (Core Spec Version 4.2+HS)) AND 38/3 (BR/EDR/LE Roles – Peripheral Role))) is supported, otherwise Excluded.
23/5	Terminate Connection	[3] 9.3.10, 13.1.2.1	C.2	<input checked="" type="checkbox"/>	C.2: Mandatory IF (5/3 (LE Roles – Peripheral Role) OR ((31/14 (SUMICS 31/14 (Core Spec Version 4.1) OR SUMICS 31/15 (Core Spec Version 4.1+HS) OR SUMICS 31/16 (Core Spec Version 4.2) OR SUMICS 31/17 (Core Spec Version 4.2+HS)) 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	System Spec Reference	Support	Status	Comment
24/1	Non-Bondable Mode	[3], 9.4.2	M	<input checked="" type="checkbox"/>	

Table 25: Peripheral Security Aspects Features

Prerequisite: GAP 38/3 or GAP 5/3

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 26: Peripheral Privacy Feature

Prerequisite: GAP 38/3 or GAP 5/3

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

Item	Capability	System Spec Reference	Support	Status	Comment
27/1	Device Name	[3] or [7] 12.1	M	<input checked="" type="checkbox"/>	
27/2	Appearance	[3] or [7] 12.2	M	<input checked="" type="checkbox"/>	

Table 28: Central Physical Layer

Prerequisite: GAP 38/4 or GAP 5/4

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 29: Central Link Layer States

Prerequisite: GAP 38/4 or GAP 5/4

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 30: Central Link Layer Scanning Types

Prerequisite: GAP 38/4 or GAP 5/4

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 31: Central Link Layer Control Procedures

Prerequisite: GAP 38/4 or GAP 5/4

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 32: Central Discovery Modes and Procedures

Prerequisite: GAP 38/4 or GAP 5/4

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 33: Central Connection Modes and Procedures

Prerequisite: GAP 38/4 or GAP 5/4

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 34: Central Bonding Modes and Procedures

Prerequisite: GAP 38/4 or GAP 5/4

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 35: Central Security Features

Prerequisite: GAP 38/4 or GAP 5/4

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

Prerequisite: GAP 38/4 or GAP 5/4

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

Prerequisite: GAP 38/4 or GAP 5/4

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

Prerequisite: GAP 0/3

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 39: Central BR/EDR/LE Modes

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 40: Central BR/EDR/LE Idle Mode Procedures

Prerequisite: GAP 38/4

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

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 42: Peripheral BR/EDR/LE Modes

Prerequisite: GAP 38/3

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

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

Prerequisite: GAP 38/4

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

Prerequisite: GAP 38/3

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

Table 2: General Operation

Item	Capability	System Spec Reference	Support	Status	Comment
2/40	Support of Low Energy signaling channel	[4] 2.1, 2.2	C.17	<input checked="" type="checkbox"/>	C.17: Mandatory (0/2 OR 0/3) is supported, otherwise Excluded.
2/41	Support of command reject	[4] 4.10	C.17	<input checked="" type="checkbox"/>	C.17: Mandatory (0/2 OR 0/3) is supported, otherwise Excluded.

Table 3: Configurable Parameters

Item	Capability	System Spec Reference	Support	Status	Comment
3/1	Support of RTX timer	[1] 6.2.1	M	<input checked="" type="checkbox"/>	

3/2	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.
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Table 0: L2CAP Transport Configuration

Item	Capability	System Spec 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 1: Roles

Item	Capability	System Spec Reference	Support	Status	Comment
1/4	LE Slave	[4] 2	C.2	<input checked="" type="checkbox"/>	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	System Spec Reference	Support	Status	Comment
1/1	Advertising State	[1]: 4.4.2	C.1	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	C.3: Optional if 1/1 is supported, otherwise Excluded.

Table 2: Device Addresses Types

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

Table 3: Protocol Advertising Features

Item	Capability	System Spec Reference	Support	Status	Comment
3/1	Non-Connectable Undirected Events	[1]: 4.4.2.6	C.1	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	
3/6	Sending Scan Responses	[1]: 4.4.2.3, 4.4.2.5	C.2	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	C.2: Mandatory if GAP 5/3 (Peripheral) is supported, otherwise Not Defined.

Table 4: Protocol Scanning Features

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 5: Protocol Initiating Features

Prerequisite: LL 1/3

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

Item	Capability	System Spec Reference	Support	Status	Comment
6/1	Slave Transmissions	[1]: 4.5.1, 4.5.5, 4.5.6	M	☑	
6/2	Acknowledgement Scheme	[1]: 4.5.9	M	☑	
6/3	Unknown Response	[1]: 5.1.4, 2.4.2	M	☑	
6/4	Responding in Feature Setup	[1]: 5.1.4	M	☑	
6/5	Sending Data (Device supports data output from a Host)	[1]: 4.5.1, 4.5.6	M	☑	
6/6	Receiving Data (Device supports data input to a Host)	[1]: 4.5.1, 4.5.6	M	☑	
6/10	Accepting Parameter Update	[1]: 5.1.1	M	☑	
6/11	Accepting Channel Map Update	[1]: 5.1.2	M	☑	
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	☑	
6/19	Slave Version Exchange	[1]: 5.1.5	M	☑	

Table 7: Protocol Master Role Features

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 8: Physical Channels

Item	Capability	System Spec Reference	Support	Status	Comment
8/1	Data channels (channel index 0 to 36)	[1]:1.4	C.1	☑	C.1: Mandatory if (1/4 or 1/5) is supported, otherwise Excluded.
8/2	Advertising channels (at least one of channel index 37, 38, 39)	[1]:1.4.1	M	☑	
8/3	Support Data channel selection algorithm	[1]: 4.5.8	C.1	☑	C.1: Mandatory if (1/4 or 1/5) is supported, otherwise Excluded.

Table 9: Supported Features

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 10: Scatternet Capabilities

Item	Capability	System Spec Reference	Support	Status	Comment
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Low Energy RF PHY

Table 1: Bluetooth LE RF Capabilities

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

Table 2: Bluetooth LE Test Interface Capabilities

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

Generic Attribute Profile

Table 1: Generic Attribute Profile Support

Item	Capability	System Spec Reference	Support	Status	Comment
1/2	Generic Attribute Profile Server	GATT 2.2	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 2: Attribute Protocol Transport

Item	Capability	System Spec Reference	Support	Status	Comment
2/2	Attribute Protocol Supported over LE	GATT 2.2	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

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 3B: Profile Attribute Types and Formats, by client

Prerequisite: GATT 1/3

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

Item	Capability	System Spec Reference	Support	Status	Comment
4/1	Exchange MTU	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	4.4.1	M	☑	
4/3	Discover Primary Services by Service UUID	4.4.2	M	☑	
4/4	Find Included Services	4.5.1	M	☑	
4/5	Discover All characteristics of a Service	4.6.1	M	☑	
4/6	Discover Characteristics by UUID	4.6.2	M	☑	
4/7	Discover All Characteristic Descriptors	4.7.1	M	☑	
4/8	Read Characteristic Value	4.8.1	M	☑	
4/9	Read Using Characteristic UUID	4.8.2	M	☑	
4/18	Indications	4.11.1	C.1	☑	C.1: Mandatory if service definitions on the server can be added, changed, or removed, otherwise Optional.
4/23	Service Changed Characteristic	7.1	C.1	☑	C.1: Mandatory if service definitions on the server can be added, changed, or removed, otherwise Optional.

Table 4B: Profile Attribute Types and Characteristic Formats, by server

Prerequisite: GATT 1/4

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 5: Deleted

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 6: SDP Interoperability

Prerequisite: GATT 2/1

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

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 8: Attribute Protocol Transport

Item	Capability	System Spec Reference	Support	Status	Comment
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Security Manager Protocol

Table 1: Roles

Item	Capability	System Spec Reference	Support	Status	Comment
1/2	Slave Role (Responder)	[1] 2.4	C.2	<input checked="" type="checkbox"/>	C.2: Optional IF (((SUMICS 31/10 (4.0) OR SUMICS 31/10a (4.0+HS)) AND (GAP 5/3 (LE Roles – Peripheral Role)) OR ((SUMICS 31/14 (4.1) OR SUMICS 31/15 (4.1+HS) OR SUMICS 31/16 (4.2) OR SUMICS 31/17 (4.2+HS)) AND (GAP 5/3 (LE Roles – Peripheral Role) OR GAP 38/3 (BR/EDR/LE Roles – Peripheral Role))))

Table 2: Security Properties

Item	Capability	System Spec 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	System Spec Reference	Support	Status	Comment
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Table 4: Pairing Method

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 5: Security Initiation

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 6: Signing Algorithm

Item	Capability	System Spec Reference	Support	Status	Comment
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Table 7: Key Distribution

Item	Capability	System Spec Reference	Support	Status	Comment
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Attribute Protocol

Table 1: Attribute Protocol Support

Item	Capability	System Spec 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	System Spec 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	System Spec 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	System Spec 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	ATT,	C.1	☑	C.1: Mandatory if 4/12 is supported, otherwise Excluded.

	Response	3.4.4.6				
4/14	Read Multiple Request	ATT, 3.4.4.7	C.7	<input checked="" type="checkbox"/>	C.7: Mandatory IF GATT 4/11 (GATT Server Read Multiple Characteristic Values) is supported, otherwise Optional.	
4/15	Read Multiple Response	ATT, 3.4.4.8	C.2	<input checked="" type="checkbox"/>	C.2: Mandatory if 4/14 is supported, otherwise Excluded.	
4/16	Read by Group Type Request	ATT, 3.4.4.9	M	<input checked="" type="checkbox"/>		
4/17	Read by Group Type Response	ATT, 3.4.4.10	M	<input checked="" type="checkbox"/>		
4/18	Write Request	ATT, 3.4.5.1	C.10	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	C.3: Mandatory if 4/18 is supported, otherwise Excluded.	
4/20	Write Command	ATT, 3.4.5.3	C.8	<input checked="" type="checkbox"/>	C.8: Mandatory IF GATT 4/12 (GATT Server Write Without Response) is supported, otherwise Optional.	
4/21	Signed Write Command	ATT, 3.4.5.3	C.9	<input checked="" type="checkbox"/>	C.9: Mandatory IF GATT 4/13 (GATT Server Signed Write Without Response) is supported, otherwise Optional.	
4/22	Prepare Write Request	ATT, 3.4.6.1	C.11	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	C.4: Mandatory if 4/22 is supported, otherwise Excluded.	
4/24	Execute Write Request	ATT, 3.4.6.3	C.4	<input checked="" type="checkbox"/>	C.4: Mandatory if 4/22 is supported, otherwise Excluded.	
4/25	Execute Write Response	ATT, 3.4.6.4	C.4	<input checked="" type="checkbox"/>	C.4: Mandatory if 4/22 is supported, otherwise Excluded.	
4/26	Handle Value Notification	ATT, 3.4.7.1	C.12	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	C.5: Mandatory if 4/27 is supported, otherwise Excluded.	
4/29	Server Timeout	ATT, 3.3.3	C.5	<input checked="" type="checkbox"/>	C.5: Mandatory if 4/27 is supported, otherwise Excluded.	

Table 5: Attribute Protocol Transport

Item	Capability	System Spec Reference	Support	Status	Comment
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