

Member Declarations Bluetooth®

Qualified Design Listing (QDL) Information:

Member Company:	Sena Technologies Inc.
Declarer:	Seunghyun Kim
Design Description:	Bluetooth USB Adapter
Qualified Design ID:	B021298
Design Model number:	Parani-UD100a
Product Type:	Controller Subsystem
Hardware version number:	V1.0
Software version number:	V1.0
Qualification Assessment Date:	22-07-2013
Specification Name:	4.0
TCRL Release:	TCRL 2012 -3 (CSA4) (19-Feb-13)
Location of Compliance Folder for Audit:	210 Yangjae-dong Secho-gu Korea Seoul, 137 130 South Korea
Member who will accompany the Audit:	Seunghyun Kim

Declaration of Compliance (DoC)

WHEREAS, the name of the declarer listed above whose corporation, (hereinafter the "Declarer"), has executed the Bluetooth Adopters Agreement, Bluetooth Promoters Agreement or the Membership Agreement as applicable (hereinafter the "Applicable Agreement").

WHEREAS, Declarer has developed a design, which incorporates all or parts of the Interface as defined in the Applicable Agreement, as listed above, (hereinafter the "Design");

WHEREAS, based on best effort, the Declarer wishes to certify that the Design and the Interface fully complies (hereinafter "Bluetooth Compliant") and will continue to comply with all applicable provisions of the Bluetooth Specifications indicated in the attached Appendix A (hereinafter the "Specification");

WHEREAS, Design compliance with the Specification is a condition of patent licenses applicable to the Design granted under the Applicable Agreement;

WHEREAS, the Declarer issues this Declaration of Compliance, in order to certify that the Design is qualified as a Bluetooth Compliant Design;

WHEREAS, the Declarer is entrusted by the Bluetooth SIG, Inc., with the authority to list Designs as qualified;

WHEREAS, the Compliance Folder is the set of evidence required to demonstrate compliance of the Design to the Specification, and whereas the Compliance Folder is maintained by the Member.

FURTHERMORE, Declarer further undertakes and certifies that this Declaration of Compliance constitutes an essential element of the Design Qualification as required by the compliance requirements of the Specification, and acknowledges that the release of a Design which does not fully comply with all applicable provisions of the Specification may cause loss or harm to Fellow Adopters ("Fellow Adopters" as defined in the Specification).

NOW THEREFORE, the Declarer undertakes and certifies that the Design, as manufactured and marketed, fully complies with all applicable provisions of the Bluetooth Specifications indicated in Appendix A.

Supplier Declaration of Conformity (SDoC)

WHEREAS, the Declarer undertakes and certifies that the Design, as manufactured and marketed, fully complies with all applicable requirements for the declared product type (as shown above) as required by the compliance requirements of the Specification and provisions of the current version of the Bluetooth Qualification Program Reference Document (PRD) and its Addendum (if applicable).

WHEREAS, the Declarer acknowledges that the Bluetooth SIG, Inc. qualification tools and related programs are provided AS IS and that the Bluetooth SIG, Inc. does not accept any liability for Member's use of such.

WHEREAS, the Declarer acknowledges that it is optional to use the services provided by a Bluetooth Qualification Expert (BQE) recognized by Bluetooth SIG, Inc. and that the BQE can neither make Qualification policy decisions nor relieve the Declarer from any responsibilities pertaining to the Qualification Requirements and compliance to the Specification.

THEREFORE, the Declarer hereby recognizes that (i) license rights granted under the Applicable Agreement for this Design only apply if this Design is compliant with the Requirements of the Bluetooth Qualification Program Reference Document (PRD), and (ii) hereby acknowledges a clear undertaking to comply with PRD policies (including QEP), and (iii) Declarer and Duly Authorized Officer of the Member Company authorizes Bluetooth SIG, Inc., to audit the qualification materials and any other materials necessary to verify compliance to the Qualification Requirements as specified in the Qualification Auditing, Surveillance and Enforcement (QEP) Policy document.

I HAVE READ THE ABOVE DECLARATION AND HEREBY AGREE TO ITS TERMS AND CONDITIONS.

ATTESTED BY DECLARER, AUTHORIZED BY A DULY AUTHORIZED OFFICER OF THE MEMBER COMPANY

By: Seunghyun Kim
[Declarer]

July/23/2013
[Date]

Taeyong Kim
[Duly Authorized Officer of Member Company]

July/23/2013
[Date]

Appendix A

Core PICS Information

Summary ICS
External to all Layers

Controller Core Specification**Table 21: Controller Configuration Specification Version***Select the Specification Version used for the Controller Core Configuration*

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
3	Core Specification 2.0	Core 2.0	C.1	X
4	Core Specification 2.0 + EDR	Core 2.0+EDR	C.1	X
5	Core Specification 2.1	Core 2.1	C.1	X
6	Core Specification 2.1 + EDR	Core 2.1+EDR	C.1	X
7	Core Specification Addendum 1 (CSA1), Adopted 26 June 2008	CSA1	C.2	X
8	Core Specification 3.0	Core 3.0	C.1	X
9	Core Specification 4.0	Core 4.0	C.1	X
10	Core Specification Addendum 2 (CSA2), Adopted 27 Dec 2011	CSA2	C.3	X
11	Core Specification Addendum 3 (CSA3), Adopted 24 July 2012	CSA3	C.4	X
12	Core Specification Addendum 4 (CSA4), Adopted 19 February 2013	CSA4	C.5	X

*C.1: Mandatory to support only one Controller Core Specification Version.**C.3: Optional if one of 21/5, 21/6, 21/8 or 21/9 (Core Spec 2.1 – 4.0) is supported, otherwise Excluded.**C.2: Optional if one of 21/3, 21/4, 21/5, or 21/6 (Core Spec 2.0 – 2.1+EDR) is supported, otherwise Excluded.**C.4: Optional if one of 21/5, 21/6, 21/8 or 21/9 (Core Spec 2.1 – 4.0) and 21/10 is supported, otherwise Excluded.**C.5: Optional if one of 21/5 or 21/6 or 21/8 or (21/9 and 21/11) (Core Spec 2.1- 3.0 or 4.0 with CSA3) is supported, otherwise Excluded.***Table 24: BR/EDR Controller Electrical Interfaces**

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	UART Transport Layer	Vol. 4, Part A	O	X
2	USB Transport Layer	Vol. 4, Part B	O	X
3	Secure Digital (SD) Transport Layer	Vol. 4, Part C	O	X
4	Three-wire UART Transport Layer (3-Wire)	Vol 4, Part D	O	X
5	Core Spec Addendum 2 (CSA2), Audio Architecture USB Changes	Vol. 4, Part B	C.1	X
6	Core Spec Addendum 3 (CSA3), Wireless Coexistence Interface (WCI-1) Transport	Vol.7, Part B*	C.2	X
7	Core Spec Addendum 3 (CSA3), Wireless Coexistence Interface 2 (WCI-2) Transport	Vol.7, Part C*	C.2	X

*No PICS/profile ICS exists for this part.**C.1: Optional if 21/10 and 24/2 are supported, otherwise Excluded.**C.2: Optional if 21/11 and 24/1 are supported, otherwise Excluded.***Table 31: Host Configuration Specification Version***Select the Specification Version used for the Host Core Configuration*

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
2	(Item intentionally left blank)			X
3	(Intentionally left blank)			X
4	Core Specification 2.0/2.0 + EDR	Core 2.0 +EDR	C.1	X

5	<i>(Intentionally left blank)</i>			X
6	Core Specification 2.1/2.1 + EDR	Core 2.1 +EDR	C.1	X
7	Core Spec Addendum (CSA) 1, Volume 3, Part A Adopted June 26 2008	CSA1	C.2	X
8	Core Specification 3.0	Core 3.0	C.1	X
9	Core Specification 3.0 + HS	Core 3.0 + HS	C.1	X
10	Core Spec Version 4.0	Core 4.0	C.1	X
11	Core Specification 4.0 + HS	Core 4.0 + HS	C.1	X
12	Core Specification Addendum 2 (CSA2), Adopted 27 Dec 2011	CSA2	C.3	X
13	Core Specification Addendum 3 (CSA3), Adopted 24 July 2012	CSA3	C.4	X
14	Core Specification Addendum 4 (CSA4), Adopted 19 February 2013	CSA4	C.5	X

C.1: Mandatory to support only one Host Core Specification Version.

C.2: Optional if one of 31/4 or 31/6 (Core Spec 2.0+EDR – 2.1+EDR) is supported, otherwise Excluded.

C.3: Optional if 31/10 or 31/11 (Core Spec Version 4.0) is supported, otherwise Excluded.

C.4: Optional if (31/10 or 31/11) and 31/12 are supported, otherwise Excluded.

C.5: Optional if 31/6 OR 31/8 OR 31/9 or (31/10 and 31/12) (Core Spec 2.1 -3.0 or 4.0 with CSA3) is supported, otherwise Excluded.

Table 33: Core Host Electrical Interfaces

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	UART Transport Layer	Vol 4, Part A	O	X
2	USB Transport Layer	Vol 4, Part B	O	X
3	Secure Digital (SD) Transport Layer	Vol 4, Part C	O	X
4	Three-wire UART Transport Layer (3-Wire)	Vol 4, Part D	O	X
5	Core Spec Addendum 2 (CSA2), Audio Architecture USB Changes	Vol. 4, Part D	C.1	X
6	Core Spec Addendum 3 (CSA3), Wireless Coexistence Interface (WCI-1) Transport	Vol.7, Part B*	C.2	X
7	Core Spec Addendum 3 (CSA3), Wireless Coexistence Interface 2 (WCI-2) Transport	Vol.7, Part C*	C.2	X

No PICS/profile ICS exists for this part.

C.1: Optional if 31/12 AND 33/2 are supported, otherwise Excluded.

C.2: Optional if 31/13 and 33/1 are supported, otherwise Excluded.

Table 41: AMP Controller Specification Version

Prerequisite: 21/5 or 21/6 or 21/8 or 21/9

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Core Spec Version 3.0 + HS or later	Core 3.0+HS Core 4.0	C.1	X
2	Core Spec Addendum 2 (CSA2), 802.11 Protocol Adaptation Layer (802.11 PAL), Adopted 27 Dec 2012	CSA2	C.1	X

C.1: Mandatory to support only one if PROD 2/3 or 2/6 is supported, otherwise Excluded.

Table 42: AMP Controller Specification Parts

Prerequisite: 41/1 or 41/2

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	802.11 Protocol Adaptation Layer (802.11 PAL)	Vol. 5, Part A	C.1	X
2	802.11 MAC/PHY	IEEE 802.11-	C.2	X

		2007		
3	Core Spec Addendum 2 (CSA2), 802.11 Protocol Adaptation Layer (802.11 PAL)	CSA2	C.3	X
4	802.11 MAC/PHY	IEEE 802.11-2007 Amendment 1	C.4	X

C.1: Mandatory if 41/1 is supported, otherwise Excluded.

C.2: Mandatory if 41/1 or 41/2 is supported, otherwise Optional.

C.3: Mandatory if 41/2 is supported, otherwise Excluded.

C.4: Mandatory if 42/3 is supported, otherwise Optional.

Table 43: AMP Controller Electrical Interfaces

Prerequisite: 41/1 or 41/2

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	UART Transport Layer	Vol. 4, Part A		X
2	USB Transport Layer	Vol. 4, Part B		X
3	Secure Digital (SD) Transport Layer	Vol 4, Part C		X
4	Three-wire UART Transport Layer (3-Wire)	Vol 4, Part D		X

No PICS/profile ICS exists for this part.

Table 51: Low Energy Controller Configuration

Prerequisite: 21/9

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Low Energy Controller	Core 4.0	C.1	X

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: 31/10 or 31/11

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Low Energy Host	Core 4.0	C.1	X

C.1: Mandatory if PROD 2/3 or 2/4 or 2/5 is supported, otherwise Excluded.

EDR Features

Table 22: EDR Features

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	EDR for asynchronous transports (single slot)	Core 2.0+EDR and later	C.1	X
2	EDR for asynchronous transports (multi-slot)	Core 2.0+EDR and later	C.1	X
3	EDR for synchronous transports	Core 2.0+EDR and 2.1+EDR	C.1, C.3	X
4	EDR for synchronous transports	CSA1 and 3.0+HS or later	C.1, C.2	X

C.1: Mandatory to support at least one if +EDR (21/4 or 21/6) is supported; Mandatory to support at least one if +HS (41/1 or 41/2) is supported, otherwise Optional

C.2: Optional if CSA1 or later (21/7 or 21/8 or 21/9 or 21/10) is supported, otherwise Excluded.

C.3: Optional if (21/3 or 21/4 or 21/5 or 21/6) is supported, otherwise Excluded.

Product Type
External to All Layers

Product Types

Table 1: Product Types

Please confirm the Product Type that was selected when Creating New Project

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	End Product	N/A	C.1	X
2	Component (Tested)	N/A	C.1	X
3	Component (Non-Tested)	N/A	C.1	X
4	Host Subsystem	N/A	C.1	X
5	Controller Subsystem	N/A	C.1	X
6	Profile Subsystem	N/A	C.1	X
7	Test Equipment	N/A	C.1	X
8	Development Tool	N/A	C.1	X

C.1: Mandatory to support one and only one Product Type.

Table 2: Controller Core Configuration

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	BR Controller	Vol. 0 Part B	C.1	X
2	BR/EDR Controller	Vol. 0 Part B	C.1	X
3	BR/EDR/HS Controller	Vol. 0 Part B	C.1	X
4	LE Controller	Vol. 0 Part B	C.1	X
5	BR/EDR/LE Combined Controller	Vol. 0 Part B	C.1	X
6	BR/EDR/HS/LE Combined Controller	Vol. 0 Part B	C.1	X

C.1: Mandatory to support only one Controller Configuration. Optional if 1/2 or 1/3 is Supported.

Table 3: Host Core Configuration

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	BR Host	Vol. 0 Part B	C.1	X
2	BR/HS Host	Vol. 0 Part B	C.1	X
3	LE Host	Vol. 0 Part B	C.1	X
4	BR/LE Host	Vol. 0 Part B	C.1	X
5	BR/HS/LE Host	Vol. 0 Part B	C.1	X

C.1: Mandatory to support only one Host Configuration. Optional if 1/2 or 1/3 is Supported.

Radio
Vol 2, Part A

1.3.1 General Information

Table 1: RF Capabilities

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Power Class = 1	RF, 3	M.1	X
2	Power Class = 2	RF, 3	M.1	X
3	Power Class = 3	RF, 3	M.1	X
4	Power Control	RF, 3	C.1	X
5	1-slot packets supported	BB, 6.5	M	X
6	3-slot packets supported	BB, 6.5	O	X
7	5-slot packets supported	BB, 6.5	O	X
8	79 Channels	RF, 2	M	X
9	Support for GFSK modulation	RF, 3.1	M	X
10	Support for pi/4-DQPSK modulation	RF, 3.2	C.2	X
11	Support for 8DPSK modulation	RF, 3.3	C.3	X
12	Enhanced Power Control	RF, 3	C.4	X

M.1: Mandatory to support one and only one power class (1/1-3).

C.1: Mandatory if 1/1 is supported, otherwise Optional.

C.2: Mandatory if (SUMICS 22/1 or 22/2 or 22/3 or 22/4) is supported, otherwise Excluded.

C.3: Mandatory if (SUMICS 22/1 or 22/2 or 22/3) is supported; Optional if (SUMICS 22/4) is supported, otherwise Excluded.

C.4: Optional if Core Specification 3.0 or later (SUMICS 21/8 or SUMICS 21/9) AND 1/4 is supported, otherwise Excluded.

Baseband
Vol 2, Part B

Physical Channel

Table 1: Physical Channel

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Support frequency band and 79 RF channels	BB, 2.1	M	X
2	Adaptive Frequency Hopping Kernel	BB, 2.6	M	X

Table 1a: Modulation Schemes

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Basic Data Rate, 1 Mbps payload data rate	RF, 3.1	M	X
2	Enhanced Data Rate, 2 Mbps payload data rate	RF, 3.2	C.1	X
3	Enhanced Data Rate, 3 Mbps payload data rate	RF, 3.2	C.2	X

C.1: Mandatory if (SUMICS 22/1 or 22/2 or 22/3 or 22/4) is supported, otherwise Excluded.

C.2 Mandatory if (SUMICS 22/1 or 22/2 or 22/3) is supported; Optional if (SUMICS 22/4) is supported, otherwise Excluded.

Physical Links

Table 2: Link Types

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Support of ACL link	BB, 5.2	M	X
2	Support of SCO link	BB, 5.4	O	X
3	Support of eSCO link	BB, 4.3	O	X

4	Support of Enhanced Data Rate ACL links	BB, 6.5.4	C.1	X
5	Support of Enhanced Data Rate eSCO links	BB, 6.5.3	C.2	X
6	Profile Broadcast Data Link	BB, 5.7	C.3	X

C.1: Mandatory if (SUMICS 22/1 or 22/2) is supported, otherwise Optional.

C.2: Mandatory if (SUMICS 22/1 or 22/2 or 22/3) is supported; Optional if (SUMICS 22/4) is supported, otherwise Excluded.

C.3: Optional if SUMICS 21/12 (CSA4) or later is supported, otherwise Excluded.

Table 3: SCO Link Support

Prerequisite for Items (3/5-8): 2/3

Prerequisite for Items (3/1-4): 2/2

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]	Values	
					Allowed	Supported
1	SCO links to same Slave	BB, 4.3	C.1	X	(1,2,3)	<input type="text" value="N/A"/>
2	SCO links to different Slaves	BB, 4.3	O	X	(1,2,3)	<input type="text" value="N/A"/>
3	SCO links from same Master	BB, 4.3	C.1	X	(1,2,3)	<input type="text" value="N/A"/>
4	SCO links from different Masters	BB, 4.3	O	X	(> 2)	
5	eSCO links to same Slave	BB, 4.2	C.2	X	(1,2,3,4,5,6)	<input type="text" value="N/A"/>
6	eSCO links to different Slaves	BB, 4.2	O	X	(2,3,4,5)	<input type="text" value="N/A"/>
7	eSCO links from same Master	BB, 4.2	C.2	X	(1,2,3,4,5,6)	<input type="text" value="N/A"/>
8	eSCO links from different Masters	BB, 4.2	O	X	(2,3,4,5)	<input type="text" value="N/A"/>

C.2: Mandatory to support at least one of 3/5 or 3/7.

C.1: Mandatory to support at least one of 3/1 or 3/3.

Table 3a: Profile Broadcast Data Link Support

Prerequisite: 2/6 (Support of Broadcast Data Link)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Connectionless Slave Broadcast Transmitter	BB 8.10.1 LMP 3.3 Table 3.4, Item 128	C.1	X
2	Connectionless Slave Broadcast Receiver	BB 6.5.1 BB 6.5.1.2	C.1	X

C.1: Mandatory to support at least one of the defined roles.

Packet Types

Table 4: Common Packet Types

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Support of ID packet type	BB, 6.5.1 BB,6.5.1.1	M	X
2	Support of NULL packet type	BB, 6.5.1 BB, 6.5.1.2	M	X
3	Support of POLL packet type	BB, 6.5.1 BB, 6.5.1.3	M	X
4	Support of FHS packet type	BB, 6.5.1 BB,6.5.1.4	M	X
5	Support of DM1 packet type	BB, 6.5.1 BB, 6.5.1.5 BB, 6.5.4	M	X

Table 5: ACL Packet Types

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Support of DH1 packet type	BB, 6.5.4 BB,6.5.4.2	M	X
2	Support of DM3 packet type	BB, 6.5.4 BB,6.5.4.3	C.1	X
3	Support of DH3 packet type	BB, 6.5.4 BB,6.5.4.4	O	X
4	Support of DM5 packet type	BB, 6.5.4 BB,6.5.4.5	O	X
5	Support of DH5 packet type	BB, 6.5.4 BB,6.5.4.6	O	X
6	Support of AUX1 packet type	BB, 6.5.4 BB,6.5.4.7	O	X

C.1: Mandatory if (9c/1 or 9c/2) is supported, otherwise Optional.

Table 5a: Enhanced Data Rate ACL Packet Types

Prerequisite: 2/4

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Support 2-DH1 packet type	BB, 6.5.4.8	C.1	X
2	Support 2-DH3 packet type	BB, 6.5.4.9	C.2	X
3	Support 2-DH5 packet type	BB, 6.5.4.10	C.2	X
4	Support 3-DH1 packet type	BB, 6.5.4.11	C.3	X
5	Support 3-DH3 packet type	BB, 6.5.4.12	C.4	X
6	Support 3-DH5 packet type	BB, 6.5.4.13	C.5	X

C.1: Mandatory if (SUMICS 22/1 or 22/2) is supported, otherwise Optional if (BB 1a/2) is supported.

C.2: Mandatory if (SUMICS 22/2) is supported, otherwise Optional if (BB 1a/2) is supported.

C.3: Mandatory if (SUMICS 22/1 or 22/2) is supported, otherwise Optional if (BB 1a/3) is Supported.

C.4: Mandatory if (SUMICS 22/2) is supported, otherwise Optional if (BB 5a/2 and 5a/4) are supported.

C.5: Mandatory if (SUMICS 22/2) is supported, otherwise Optional if (BB 5a/3 and 5a/4) are supported.

Table 6: SCO and eSCO Packet Types

Prerequisite for Items (6/1-4): 2/2

Prerequisite for Items (6/5-7): 2/3

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Support of HV1 packet type	BB, 6.5.2 BB,6.5.2.1	C.1	X
2	Support of HV2 packet type	BB, 6.5.2 BB,6.5.2.2	O	X
3	Support of HV3 packet type	BB, 6.5.2 BB,6.5.2.3	O	X
4	Support of DV packet type	BB, 6.5.2 BB,6.5.2.4	C.1	X
5	Support of EV3 packet type	BB, 6.5.3 BB,6.5.3.1	C.2	X
6	Support of EV4 packet type	BB, 6.5.3 BB,6.5.3.2	O	X
7	Support of EV5 packet type	BB, 6.5.3 BB,6.5.3.3	O	X

C.1: Mandatory if only 2/2 is supported.

C.2: Mandatory if only 2/3 is supported.

Table 6a: Enhanced Data Rate eSCO Packet Types

Prerequisite: 2/5

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Support 2-EV3 packet type	BB, 6.5.3.4	C.1	X
2	Support 2-EV5 packet type	BB, 6.5.3.5	C.2	X
3	Support 3-EV3 packet type	BB, 6.5.3.6	C.3	X
4	Support 3-EV5 packet type	BB, 6.5.3.7	C.4	X

C.1: Mandatory if (SUMICS 22/3) is supported, otherwise Optional if (BB 1a/2) is supported.

C.2: Optional if 1a/2 is supported.

C.3: Mandatory if (SUMICS 22/3) is supported, otherwise Optional if (BB 1a/3) is supported.

C.4: Optional if 1a/3 is supported.

Access Procedures

Table 7: Page Procedures

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Support paging	BB, 8.3.2	M	X
2	Support page scan	BB, 8.3.1	M	X
3	(Intentionally left blank)			X
4	(Intentionally left blank)			X
5	Supports Interlaced Scan during page scan	BB, 2.4	O	X
6	Support Truncated Paging	BB, 8.3.3	C.1	X
7	Support Page Response Timeout Detection	BB, 8.3	C.2	X

C.1: Mandatory if (3a/1 or 3a/2) is supported, otherwise Optional.

C.2: Mandatory if 3a/1 is supported, otherwise Optional.

Table 8: Paging Schemes

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Supports mandatory scan mode	BB, 8.3 BB, table 6.5	M	X

Table 9: Paging Modes

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Supports paging mode R0	BB, 8.3.1 BB, table 8.1	C.1	X
2	Supports paging mode R1	BB, 8.3.1 BB, table 8.1	C.1	X
3	Supports paging mode R2	BB, 8.3.1 BB, table 8.1	C.1	X

C.1: At least one of 9/1-3 is Mandatory.

Table 9b: Paging Train Repetition

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Supports Npage >= 1	BB, 8.3.2 BB, table 8.2	O	X
2	Supports Npage >= 128	BB, 8.3.2 BB, table 8.2	O	X

3	Supports Npage >= 256	BB, 8.3.2 BB, table 8.2	M	X
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Note: The master should use Npage >= 256 unless it knows what SR mode the slave uses.

Table 9c: Synchronization Modes Support

Prerequisite: 2/6 (Support of Broadcast Data Link)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Synchronization Train	BB 8.3.5 LMP 3.3 Table 3.4, Item 130		X
2	Synchronization Scan	BB 8.3.4 LMP 3.3 Table 3.4, Item 131		X

C.1: Mandatory if 3a/1 is supported, otherwise Excluded.

C.2: Mandatory if 3a/2 is supported, otherwise Excluded.

Table 10: Inquiry Procedures

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Support inquiry	BB, 8.4.2	O	X
2	Inquiry scan with first FHS	BB, 8.4.2	O	X
3	(Intentionally left blank)			X
4	(Intentionally left blank)			X
5	Supports the dedicated inquiry access code	BB, 6.3.1	O	X
6	Supports interlaced Scan during inquiry scan	BB, 2.5	O	X
7	Extended Inquiry Response	BB, 8.4.2, BB 8.4.3	C.1	X

C.1: Mandatory if (GAP 1/3) and (Core Spec 2.1 or later), otherwise Optional. Excluded if (Core Spec 2.0) is supported.

Networking Capabilities

Table 11: Piconet Capabilities

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]	Values	
					Allowed	Supported
1	Broadcast messages	BB, 7.6.1 BB, 7.6.5	O	X	(N/A)	
2	Point-to-multipoint connections	BB, 1	O	X	(2,3,4,5,6,7)	N/A <input type="button" value="v"/>

Table 12: Scatternet Capabilities

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Act as Master in one piconet and Slave in another piconet	BB, 1	O	X
2	Act as Slave in more than one piconet	BB, 1	O	X

Synchronous Data Formats

Table 13: Synchronous Coding Schemes

Prerequisite: 2/2 (SCO link support)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	A-law	BB, 9.1	O	X

2	u-law	BB, 9.1	O	X
3	CVSD	BB, 9.2	O	X
4	Transparent Synchronous Data	BB, 5.4 BB, 5.5	O	X

Erroneous Data Reporting

Table 14: Erroneous Data Reporting

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Erroneous Data Reporting for SCO	BB 7.7	C.1	X
2	Erroneous Data Reporting for eSCO	BB 7.7	C.2	X

C.1: Optional if (Core Spec 2.1 or later) and (HCI 9/6) is supported, otherwise Excluded.

C.2: Optional if (Core Spec 2.1 or later) and (HCI 9/7) is supported, otherwise Excluded.

Persistent Sniff

Table 15: This table is intentionally left blank: DO NOT USE

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	(Intentionally left blank)			X

Non-flushable Packet Boundary Flag

Table 16: Non-flushable Packet Boundary Flag

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Support Non-flushable Packet Boundary Flag	Vol 2, Part B, Section 7.6.3	C.1	X

C.1 Mandatory if (Core Spec 2.1 or later) and (HCI 12/1) is supported, otherwise optional. Excluded if (Core Spec 2.0) is supported.

Connection States

Table 17: Connection States

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Sniff Subrating Mode	Vol 2, Part C, Section 4.5.3.3	C.1	X

C.1 Mandatory if (Core Spec 2.1 or later) and (LMP 2/8) is supported, otherwise optional. Excluded if (Core Spec 2.0) is supported.

Link Manager
Vol 2, Part C

General Response Messages

Table 1: Response Messages

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]

1	Accept message	LMP, 2.7	M	X
2	Reject message	LMP, 2.7	M	X

Supported Features (General Statement)

Table 2: Supported Features

Note: This table refers to the values in the LM feature request message. It is used within this PICS as a general statement that will be used as prerequisite for other tables.

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	3-slot packets	LMP, 4.1.10, LMP, 3.3	O	X
2	5-slot packets	LMP, 4.1.10, LMP, 3.3	O	X
3	Encryption	LMP, 4.2.5, LMP, 3.3	C.5	X
4	Slot offset	LMP, 4.4.1, LMP, 3.3	O	X
5	Timing accuracy	LMP, 4.3.1, LMP, 3.3	O	X
6	Role switch (Master/Slave)	LMP, 4.4.2, LMP, 3.3	O	X
7	Hold mode	LMP, 4.5.1, LMP, 3.3	O	X
8	Sniff mode	LMP, 4.5.3, LMP, 3.3	O	X
9	Park mode	LMP, 4.5.2, LMP, 3.3	O	X
10	Power Control	RF, 3 LMP, 4.1.3, LMP, 3.3	C.1	X
11	Channel quality driven data rate	LMP, 4.1.7, LMP, 3.3	O	X
12	SCO link	LMP, 4.6.1, LMP, 3.3	O	X
13	RSSI	LMP, 3.3	O	X
14	Broadcast encryption	LMP, 4.2.5, LMP, 3.3	O	X
15	eSCO link	LMP, 4.6.2	O	X
16	Adaptive frequency hopping	LMP, 4.1.4	O	X
17	Enhanced Data Rate ACL	BB, 6.5.4 LMP, 3.3	C.2	X
18	Enhanced Data Rate eSCO	BB, 6.5.3 LMP, 3.3	C.3	X
19	Simple Pairing	LMP 4.2.7	C.4	X
20	Enhanced Power Control	LMP, 4.1.3.1, LMP, 3.3	C.6	X
21	BR/EDR Not Supported	LMP, 3.3	O	X
22	LE Supported (Controller)	LMP, 3.3	O	X
23	LE and BR/EDR to same device capable (Controller)	LMP, 3.3	O	X
24	LE Supported (Host)	LMP, 3.3	C.7	X
25	Simultaneous LE and BR/EDR to same device capable (Host)	LMP, 3.3	C.8	X

- C.1: Mandatory if (RF 1/1) is supported, otherwise Optional.
 C.2: Mandatory if (SUMICS 22/1 or 22/2) is supported, otherwise Excluded.
 C.3: Mandatory if (SUMICS 22/3 or 22/4) is supported, otherwise Excluded.
 C.4: Mandatory if (Core Spec 2.1 or later) is supported, otherwise Excluded.
 C.5: Mandatory if (Core Spec 2.1 or later) is supported, otherwise Optional.
 C.6: Optional if (Core Spec 3.0 or later) and (LMP 2/10 and 2/13) are supported, otherwise Excluded.
 C.7: Mandatory if 2/22 is supported, otherwise Excluded.
 C.8: Mandatory if 2/24 is supported, otherwise Excluded.

Authentication

Table 3: Authentication

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Initiate authentication before connection completed	LMP, 4.2.1	O	X
2	Initiate authentication after connection completed	LMP, 4.2.1	O	X
3	Respond to authentication request	LMP, 4.2.1	M	X

Pairing

Table 4: Pairing

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Initiate pairing before connection completed	LMP, 4.2.2	O	X
2	Initiate pairing after connection completed	LMP, 4.2.2	O	X
3	Respond to pairing request	LMP, 4.2.2.1, LMP, 4.2.2.3	M	X
4	Use fixed PIN and request responder to initiator switch	LMP, 4.2.2.2	C.1	X
5	Use variable PIN	LMP, 4.2.2.2	C.1	X
6	Accept initiator to responder switch	LMP, 4.2.2.2	C.2	X
7	TSPC_Change_of_IO_Capabilities	LMP, 4.2.7.3.4	C.3	X

- C.1: Mandatory to support at least one of 4/4 or 4/5.
 C.2: Mandatory if 4/5 and (4/1 or 4/2) are supported.
 C.3: Mandatory if ESR05 is supported, otherwise Optional.

Link Keys

Table 5: Link Keys

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Creation of link key - Unit Key	LMP, 4.2.2.4	C.1	X
2	Creation of link key - Combination Key	LMP, 4.2.2.4	C.1	X
3	Initiate change of link key	LMP, 4.2.3	O	X
4	Accept change of link key	LMP, 4.2.3	M	X
5	(Intentionally left blank)			X
6	(Intentionally left blank)			X
7	Accept pairing with Unit Key	LMP, 4.2.2.4	O	X

- C.1: Mandatory to support at least one of 5/1 or 5/2.

Encryption

Table 6: Encryption

Prerequisite: 2/3

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Initiate encryption	LMP, 4.2.5.1	C.1	X
2	Accept encryption requests	LMP, 4.2.5.1	M	X
3	<i>(Intentionally left blank)</i>			X
4	<i>(Intentionally left blank)</i>			X
5	Key size negotiation	LMP, 4.2.5.2	M	X
6	Start encryption, as master	LMP, 4.2.5.3	M	X
7	Accept start of encryption	LMP, 4.2.5.3	M	X
8	Stop encryption , as master	LMP, 4.2.5.4	M	X
9	Accept stop of encryption	LMP, 4.2.5.4	M	X
10	Encryption Pause/Resume	LMP 4.2.5.3	C.2	X

C.1: Mandatory if (Core Spec 2.1 or later) is supported, otherwise Optional.

C.2: Mandatory if (Core Spec 2.1 or later) is supported, otherwise Excluded.

Information Requests

Table 7: Clock Offset Information

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Request clock offset information	LMP, 4.3.2	O	X
2	Respond to clock offset requests	LMP, 4.3.2	M	X

Table 8: Slot Offset Information

Prerequisite: 2/4

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Send slot offset information	LMP, 4.4.1	C.1	X

C.1: Mandatory if 13/1 is supported, otherwise Optional.

Table 9: Timing Accuracy Information

Prerequisite: 2/5

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Request timing accuracy information	LMP, 4.3.1	O	X
2	Respond to timing accuracy information requests	LMP, 4.3.1	M.1	X

Table 10: LM Version Information

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Request LM version information	LMP, 4.3.3	O	X
2	Respond to LM version information requests	LMP, 4.3.3	M	X

Table 11: Feature Support

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Request supported features	LMP, 4.3.4	C.1	X
2	Respond to supported features requests	LMP, 4.3.4	M	X
3	Request extended features mask	LMP, 4.3.4	C.2	X
4	Respond to extended features Request	LMP, 4.3.4	C.2	X

C.1: Mandatory if any of the "Optional" features in Table 2 is supported, otherwise Optional. (LMP:2/1-3), (LMP:2/5), (LMP:2/7-

12), (LMP:2/14-16), (LMP:26/1) is requested by the IUT, ELSE Optional.

C.2: Mandatory if a feature requiring another features page is supported, otherwise Optional.

Table 12: Name Information

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Request name information	LMP, 4.3.5	O	X
2	Respond to name requests	LMP, 4.3.5	M	X

Link Handling

Table 13: Role Switch

Prerequisite: 2/6

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Request Master Slave switch	LMP, 4.4.2	O	X
2	Accept Master Slave switch requests	LMP, 4.4.2	M	X

Table 14: Detach

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Detach connection	LMP, 4.1.2	M	X

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

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Enter Enhanced Data Rate	LMP, 4.1.11	C.1	X
2	Exit Enhanced Data Rate	LMP, 4.1.11	C.1	X

C.1: Mandatory if 2/17 is supported, otherwise Excluded.

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

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Enter and Exit eSCO Using Enhanced Data Rate Packets	LMP, 4.6.2	C.1	X

C.1: Mandatory if 2/18 is supported, otherwise Excluded.

Table 15: Hold Mode

Prerequisite: 2/7

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Force hold mode	LMP, 4.5.1, LMP, 4.5.1.2	O	X
2	Request hold mode	LMP, 4.5.1, LMP, 4.5.1.3	C.1	X
3	Respond to hold mode requests	LMP, 4.5.1, LMP, 4.5.1.3	M	X
4	Accept forced hold mode	LMP, 4.5.1.1, LMP, 4.5.1.2	M	X

C.1: Mandatory if 15/1 is supported, otherwise Optional.

Table 16: Sniff Mode

Prerequisite: 2/8

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
------	------------	-----------------------	--------	-----------------------

1	<i>(Intentionally left blank)</i>			X
2	Request sniff mode	LMP, 4.5.3, LMP, 4.5.3.2	O	X
3	Respond to sniff mode requests (renegotiate or reject)	LMP, 4.5.3.2	M	X
4	<i>(Intentionally left blank)</i>			X
5	Request un-sniff	LMP, 4.5.3.2	C.1	X
6	Accept un-sniff requests	LMP, 4.5.3.2	M	X
7	Sniff Subrating Mode	LMP, 4.5.3.3	C.2	X

C.1: Mandatory if 16/2 is supported, otherwise Optional.

C.2: Mandatory if (Core Spec 2.1 or later) is supported, otherwise Excluded.

Table 17: Park Mode

Prerequisite: 2/9

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	<i>(Intentionally left blank)</i>			X
2	Request park mode	LMP, 4.5.2, LMP, 4.5.2.2, LMP, 4.5.2.3	O	X
3	Respond to park mode requests	LMP, 4.5.2, LMP, 4.5.2.2, LMP, 4.5.2.3	M	X
4	<i>(Intentionally left blank)</i>			X
5	Set up broadcast scan window	LMP, 4.5.2.3	O	X
6	Accept changes to the broadcast scan window	LMP, 4.5.2.3	M	X
7	Modify beacon parameters	LMP, 4.5.2.4	O	X
8	Accept modification of beacon parameters	LMP, 4.5.2.4	M	X
9	Request Unpark using PM_ADDR	LMP, 4.5.2.5	C.1	X
10	Request Unpark using BD_ADDR	LMP, 4.5.2.5	C.1	X
11	Slave requested Unpark	LMP, 4.5.2.5, BB, 5.9.6	O	X
12	Accept Unpark using PM_ADDR	LMP, 4.5.2.5	M	X
13	Accept Unpark using BD_ADDR	LMP, 4.5.2.5	M	X

C.1: Mandatory to support at least one of (17/9 or 17/10), otherwise Optional.

Table 18: Power Control

Prerequisite for Items (18/1-2): 2/13

Prerequisite for Items (18/3-4): 2/10

Prerequisite for Items (18/5-10): 2/20

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Request to increase power	LMP, 4.1.3	M.1	X
2	Request to decrease power	LMP, 4.1.3	M.1	X
3	Respond when max power reached	LMP, 4.1.3	M.2	X
4	Respond when min power reached	LMP, 4.1.3	M.2	X
5	Request to increment power a single step	LMP, 4.1.3.1.1	M.3	X
6	Request to decrease power a single step	LMP, 4.1.3.1.1	M.3	X
7	Request to go to max power	LMP, 4.1.3.1.1	O	X
8	Respond to increment power a single step	LMP, 4.1.3.1.2	M.3	X
9	Respond to decrease power a single step	LMP, 4.1.3.1.2	M.3	X
10	Respond to go to max power	LMP, 4.1.3.1.2	M.3	X

M.1: Mandatory if 2/13 is supported.

M.2: Mandatory if 2/10 is supported.

M.3: Mandatory if 2/20 is supported.

Table 19: Link Supervision Timeout

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Set link supervision timeout value	LMP, 4.1.6	O	X
2	Accept link supervision timeout setting	LMP, 4.1.6	M	X

Quality of Service

Table 20: Quality of Service

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Channel quality driven change between DM and DH packet type	LMP, 4.1.7	C.1	X
2	Force/Request change of Quality of Service	LMP, 4.1.8, LMP, 4.1.8.1	M	X
3	Request Change of Quality of Service	LMP, 4.1.8, LMP, 4.1.8.2	M	X

C.1: Mandatory if 2/11 is supported (stated in the feature request), otherwise Optional.

SCO Links

Table 21: SCO Links

Prerequisite: 2/12

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Initiate SCO links, as Master	LMP, 4.6.1, LMP, 4.6.1.1	O	X
2	Initiate SCO links, as Slave	LMP, 4.6.1, LMP, 4.6.1.2	O	X
3	Accept SCO links	LMP, 4.6.1, LMP, 4.6.1.1, LMP, 4.6.1.2	O	X
4	Remove SCO links, as Master	LMP, 4.6.1, LMP, 4.6.1.5	C.1	X
5	Remove SCO links, as Slave	LMP, 4.6.1, LMP, 4.6.1.5	C.2	X
6	Negotiate SCO link parameters, as Master	LMP, 4.6.1, LMP, 4.6.1.3	C.3	X
7	Negotiate SCO link parameters, as Slave	LMP, 4.6.1, LMP, 4.6.1.4	C.4	X

C.1: Mandatory if 21/1 is supported, otherwise Optional.

C.2: Mandatory if 21/2 is supported, otherwise Optional.

C.3: Mandatory if (21/1 or 21/3) is supported, otherwise Optional.

C.4: Mandatory if (21/2 or 21/3) is supported, otherwise Optional.

Multi-Slot Packages

Table 22: Multi-Slot Packages

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Accept maximum allowed number of slots to be used	LMP, 4.1.10	C.1	X

2	Request maximum number of slots to be used	LMP, 4.1.10	C.1	X
3	Accept request of maximum number of slots to be used	LMP, 4.1.10	C.1	X

C.1: Mandatory if (2/1 and/or 2/2) is supported, otherwise Optional.

Paging Scheme

Table 23: Paging Scheme

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Request page mode to use	LMP, 4.1.9, LMP, 4.1.9.1	O	X
2	Accept suggested page mode	LMP, 4.1.9, LMP, 4.1.9.1	O	X
3	Request page scan mode to use	LMP, 4.1.9, LMP, 4.1.9.2	O	X
4	Accept suggested page scan mode	LMP, 4.1.9, LMP, 4.1.9.2	O	X

Connection Establishment

Table 24: Connection Establishment

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Create connection for higher layers	LMP, 4.1.1	M	X
2	Respond to requests to establish connections for higher layers	LMP, 4.1.1	M	X
3	Indicate that link set-up is complete	LMP, 4.1.1	M	X

Test Mode

Table 25: Test Mode

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Activate test mode	LMP, 4.7.1	O	X
2	Ability to reject activation of test mode if test mode is disabled	LMP, 4.7.1	M	X
3	Control test mode	LMP, 4.7.2	O	X
4	Ability to reject test mode control commands if test mode is disabled.	LMP, 4.7.2	M	X

Table 26: Adaptive Frequency Hopping

Prerequisite: 2/16

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Support of AFH switch as master	LMP, 4.1.4	O	X
2	Support of AFH switch as slave	LMP, 4.1.4	M	X
3	Support of Channel Classification reporting — post Role Switch (as Slave)	LMP, 4.1.5	C.1	X
4	Support of Channel Classification reporting as slave	LMP, 4.1.5	C.2	X
5	Support channel classification from host	LMP, 4.1.5	C.3	X
6	Support of Channel Classification	LMP, 4.1.5	O	X

C.1: Optional if 26/6 is supported, otherwise Excluded.

C.2: Mandatory if 26/6 is supported, otherwise Excluded.

C.3: Mandatory if 26/1 or 26/4 is supported, otherwise Optional.

Table 27: This Table is intentionally left blank.

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	This line is intentionally left blank.	N/A	O	X
2	This line is intentionally left blank.	N/A	O	X
3	N/A	N/A	O	X
4	N/A	N/A	O	X

Host Controller Interface
Vol 2, Part E

2.1 Generic Events

Table 1: Generic Events

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Command Complete	7.7.14	M	X
1a	Support all HCI Commands	N/A	C.1	X
1b	Support all BR/EDR control commands	3.3, 7.7	O	X

C.1: Mandatory if all HCI commands are supported, otherwise Excluded.

Table 1a: Roles

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	BR/EDR Controller	2.0	O.1	X
2	Host	2.0	O.1	X

O.1: It is mandatory to support at least one of the defined roles.

2.2 Device Setup

Table 2: Device Setup

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Reset Command	7.3.2	M	X

2.3 Controller Flow Control

Table 3: Controller Flow Control

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Read Buffer Size Command	7.4.5	M	X
2	Read Data Block Size Command	7.4.7	O	X
3	Read Flow Control Mode Command	7.3.72	O	X
4	Write Flow Control Mode	7.3.73	O	X

2.4 Controller Information

Table 4: Controller Information

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Read Local Version Information	7.4.1	M	X
2	Read Local Supported Commands Command	7.4.2	M	X
3	Read Local Supported Features Command	7.4.3	M	X
4	Read Local Extended Features Command	7.4.4	C.1	X
5	Read BD_ADDR Command	7.4.6	M	X

C.1: Mandatory if a feature requiring another features page is supported, otherwise Optional.

2.5 Controller Configuration

Table 5: Controller Configuration

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Read Local Name Command	7.3.12	M	X
2	Write Local Name Command	7.3.11	M	X
3	Read Class of Device Command	7.3.27	M	X
4	Write Class of Device Command	7.3.28	M	X
5	Read Number Of Supported IAC Command	7.3.45	O	X
6	Read Current IAC LAP Command	7.3.46	O	X
7	Write Current IAC LAP Command	7.3.47	O	X
8	Read Scan Enable Command	7.3.17	O	X
9	Write Scan Enable Command	7.3.18	M	X
10	<i>(Intentionally left blank)</i>			X
11	<i>(Intentionally left blank)</i>			X
12	<i>(Intentionally left blank)</i>			X
18	Set MWS Channel Configuration	7.3.80	O	X
19	Set External Frame Configuration	7.3.81	O	X
20	Set MWS Signaling	7.3.82	O	X
21	Set MWS Transport Layer	7.3.83	O	X
22	Set MWS Scan Frequency Table	7.3.84	O	X
23	Set MWS PATTERN Configuration	7.3.85	O	X
24	Get MWS Transport Layer Configuration	7.5.11	O	X
25	Set Triggered Clock Capture Command	7.5.12	C.2	X
26	Triggered Clock Capture Event	7.7.66	C.3	X

C.2: Optional if SUMICS 21/12 (CSA4) or later is supported, otherwise Excluded.

C.3: Mandatory if 5/25 is supported, otherwise Excluded.

2.6 Device Discovery

Table 6: Device Discovery

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Inquiry Command	7.1.1	C.1	X
2	Inquiry Cancel Command	7.1.2	O	X
3	Periodic Inquiry Mode Command	7.1.3	O	X
4	Exit Periodic Inquiry Mode Command	7.1.4	O	X
5	Read Inquiry Scan Activity Command	7.3.21	O	X

6	Write Inquiry Scan Activity Command	7.3.22	O	X
7	Read Inquiry Scan Type Command	7.3.51	O	X
8	Write Inquiry Scan Type Command	7.3.52	O	X
9	Read Inquiry Mode Command	7.3.53	O	X
10	Write Inquiry Mode Command	7.3.54	O	X
11	Read Inquiry Response Transmit Power Level Command	7.3.57	C.2	X
12	Write Inquiry Transmit Power Level Command	7.3.58	C.2	X
13	Read Extended Inquiry Response Command	7.3.51	C.3	X
14	Write Extended Inquiry Response Command	7.3.52	C.3	X
23	Inquiry Response Notification Event	7.7.73	C.8	X

C.1: Mandatory if (BB 10/1) is supported, otherwise Optional.

C.2: Mandatory if (Core Spec 2.1 or later) is supported.

C.3: Mandatory if (Core Spec 2.1 or later) and (GAP 1/3) are supported, otherwise Excluded.

C.8: Optional if SUMICS 21/12 (CSA4) or later is supported, otherwise Excluded.

2.7 Connection Setup

Table 7: Connection Setup

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Create Connection Command	7.1.5	M	X
2	Accept Connection Request Command	7.1.8	M	X
3	Reject Connection Request Command	7.1.9	M	X
4	Create Connection Cancel Command	7.1.7	O	X
5	Disconnect Command	7.1.6	M	X
6	Read Page Timeout Command	7.3.15	M	X
7	Write Page Timeout Command	7.3.16	M	X
8	Read Page Scan Activity Command	7.3.19	M	X
9	Write Page Scan Activity Command	7.3.20	M	X
10	Read Page Scan Type Command	7.3.55	O	X
11	Write Page Scan Type Command	7.3.56	O	X
12	Read Connection Accept Timeout Command	7.3.13	M	X
13	Write Connection Accept Timeout Command	7.3.14	M	X
29	Truncated Page Command	7.1.47	C.3	X
30	Truncated Page Cancel Command	7.1.48	C.3	X
31	Truncated Page Complete Event	7.7.71	C.3	X
32	Slave Page Response Timeout Event	7.7.72	C.4	X

C.3: Mandatory if BB 7/6 is supported, otherwise Excluded.

C.4: Mandatory if BB 7/7 is supported, otherwise Excluded.

2.8 Remote Information

Table 8: Remote Information

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Remote Name Request	7.1.19	O	X
2	Remote Name Request Cancel	7.1.20	O	X
3	Read Remote Supported Features Command	7.1.21	M	X
4	Read Remote Extended Features Command	7.1.22	C.2	X
5	Read Remote Version Information Command	7.1.23	O	X

C.2: Mandatory if (LMP 11/3) is supported, otherwise Optional.

2.9 Synchronous Connections

Table 9: Synchronous Connections

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Setup Synchronous Connection Command	7.1.26	C.1	X
2	Accept Synchronous Connection Request Command	7.1.27	C.2	X
3	Reject Synchronous Connection Request Command	7.1.28	C.3	X
4	Read Voice Setting Command	7.1.29	C.4	X
5	Write Voice Setting Command	7.1.30	C.4	X
6	SCO data via HCI	HCI, 5.4.3	O	X
7	eSCO data via HCI	HCI, 5.4.3	O	X
8	Write default Erroneous Data Reporting commands	HCI, 7.3.62	C.5	X
9	Read Default Erroneous Data Reporting command	HCI, 7.3.61	C.5	X

C.1: Mandatory if (LMP 21/1 or 21/2) is supported, otherwise Optional.

C.2: Mandatory if (LMP 21/3) is supported, otherwise Optional.

C.3: Mandatory if (LMP 21/3) is NOT supported, otherwise Optional.

C.4: Mandatory if (LMP 21/1 or 21/2 or 21/3) is supported, otherwise Optional.

C.5: Optional if (Core Spec 2.1 or later) is supported, otherwise Excluded.

2.10 Connection State

Table 10: Connection State

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Hold Mode Command	7.2.1	C.1	X
2	Sniff Mode Command	7.2.2	C.2	X
3	Exit Sniff Mode Command	7.2.3	C.2	X
4	Park State Command	7.2.4	C.3	X
5	Exit Park State Command	7.2.5	C.4	X
6	Read Link Policy Settings Command	7.2.9	M	X
7	Write Link Policy Settings Command	7.2.10	M	X
8	Read Default Link Policy Settings Command	7.2.11	M	X
9	Write Default Link Policy Settings Command	7.2.12	M	X
10	Read Hold Mode Activity	7.3.35	C.1	X
11	Write Hold Mode Activity	7.3.36	C.1	X

C.1: Mandatory if (LMP 15/1) is supported, otherwise Optional.

C.2: Mandatory if (LMP 16/2) is supported, otherwise Optional.

C.3: Mandatory if (LMP 17/2) is supported, otherwise Optional.

C.4: Mandatory if (LMP 2/9) is supported, otherwise Optional.

2.11 Piconet Structure

Table 11: Piconet Structure

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Role Discovery Command	7.2.7	O	X
2	Switch Role Command	7.2.8	C.1	X

C.1: Mandatory if (LMP 13/1) is supported, otherwise Optional.

2.12 Quality of Service**Table 12: Quality of Service**

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Flow Specification Command	7.2.13	M	X
2	QoS Setup Command	7.2.6	M	X
3	Flush Command	7.3.4	M	X
4	Read Automatic Flush Timeout Command	7.3.31	M	X
5	Write Automatic Flush Timeout Command	7.3.32	M	X
6	Read Failed Contact Counter Command	7.5.1	M	X
7	Reset Failed Contact Counter Command	7.5.2	M	X
8	Read Num Broadcast Retransmissions Command	7.3.33	C.4	X
9	Write Num Broadcast Retransmissions Command	7.3.34	C.4	X
10	Enhanced Flush Command	7.3.62	C.3	X
17	Sniff Subrating Command	7.2.12	C.2	X
18	Sniff Subrating Event	7.7.37	C.2	X

C.2: Mandatory if (BB 17/1) and (LMP 16/7) are supported.

C.3: Mandatory if (Core Spec 2.1 or later) is supported.

C.4: Mandatory if (BB 11/1) is supported, otherwise Optional.

2.13 Physical Links**Table 13: Physical Links**

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Read Link Supervision Timeout Command	7.3.43	O	X
2	Write Link Supervision Timeout Command	7.3.44	C.1	X
3	Read AFH Channel Assessment Mode Command	7.3.57	C.2	X
4	Write AFH Channel Assessment Mode Command	7.3.58	C.2	X
5	Set AFH Host Channel Classification Command	7.3.50	C.2	X
6	Change Connection Packet Type Command	7.1.14	C.3	X
7	Link Supervision Timeout Changed Event	7.7.46	C.4	X

C.1: Mandatory if (LMP 19/1) is supported, otherwise Optional.

C.2: Mandatory if (LMP 26/6) is supported, otherwise Optional.

C.3: Mandatory if (LMP 2/1 and/or 2/2) is supported, otherwise Optional.

C.4: Mandatory if (Core Spec 2.1 or later) is supported, otherwise Excluded.

2.14 Host Flow Control**Table 14: Host Flow Control**

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Host Buffer Size Command	7.3.41	O	X
2	Set Event Mask Command	7.3.1	O	X
3	Set Event Filter Command	7.3.3	O	X
4	Set Controller To Host Flow Control Command	7.3.40	O	X
5	Host Number Of Completed Packets Command	7.3.42	O	X
6	Read Synchronous Flow Control Enable Command	7.3.38	O	X
7	Write Synchronous Flow Control Enable Command	7.3.39	O	X
9	Read Data Block Size	7.4.7	O	X

10	Read Flow Control Mode	7.3.72	O	X
11	Write Flow Control Mode	7.3.73	O	X
12	Number of Completed Packets Event	7.7.19	O	X
13	Data Buffer Overflow Event	7.7.26	O	X
15	Read LE Host Support Command	7.3.38	O	X
16	Write LE Host Support Command	7.3.39	O	X

2.15 Link Information

Table 15: Link Information

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Read LMP Handle Command	7.1.25	M	X
2	Read Transmit Power Level Command	7.3.37	C.1	X
3	Read Link Quality Command	7.5.3	O	X
4	Read RSSI Command	7.5.4	C.2	X
5	Read Clock Offset Command	7.1.24	O	X
6	Read Clock Command	7.5.6	O	X
7	Read AFH Channel Map Command	7.5.5	C.3	X

C.1: Mandatory if (LMP 2/10) is supported, otherwise Optional.

C.2: Mandatory if (LMP 2/13) is supported, otherwise Optional.

C.3: Mandatory if (LMP 26/6) is supported, otherwise Optional.

2.16 Authentication and Encryption

Table 16: Authentication and Encryption

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Read Authentication Enable Command	7.3.23	C.1	X
2	Write Authentication Enable Command	7.3.24	C.1	X
3	Read Encryption Mode Command	7.3.25	C.2	X
4	Write Encryption Mode Command	7.3.26	C.2	X
5	Link Key Request Reply Command	7.1.10	M	X
6	Link Key Request Negative Reply Command	7.1.11	M	X
7	PIN Code Request Reply Command	7.1.12	M	X
8	PIN Code Request Negative Reply Command	7.1.13	M	X
9	Authentication Requested Command	7.1.15	O	X
10	Set Connection Encryption Command	7.1.16	C.2	X
11	Change Connection Link Key Command	7.1.17	O	X
12	Master Link Key Command	7.1.18	C.3	X
13	Read PIN Type Command	7.3.5	C.4	X
14	Write PIN Type Command	7.3.6	C.4	X
15	Read Stored Link Key Command	7.3.8	O	X
16	Write Stored Link Key Command	7.3.9	O	X
17	Delete Stored Link Key Command	7.3.10	O	X
18	Create New Unit Key Command	7.3.7	C.5	X
19	User Confirmation Request Reply Command	7.1.30	C.6	X
20	User Confirmation Request Negative Reply Command	7.1.31	C.6	X
21	User Passkey Request Reply Command	7.1.32	C.6	X

22	User Passkey Request Negative Reply Command	7.1.33	C.6	X
23	IO Capability Response Command	7.1.29	C.6	X
24a	Remote OOB Data Request Reply Command	7.1.34	C.6	X
25	Remote OOB Data Request Negative Reply Command	7.1.35	C.6	X
26	Read Local OOB Data Command	7.3.56	C.6	X
27	Write Simple Pairing Mode Command	7.3.55	C.6	X
28	Read Simple Pairing Mode Command	7.3.54	C.6	X
29	Refresh Encryption Key Command	7.3.53	C.7	X
30	Read Encryption Key Size Command	7.5.7	C.8	X
31	Send Keypress Notification Command	7.3.63	C.9	X
37	Encryption Change Event	7.7.8	C.2	X
38	Encryption Key Refresh Complete Event	7.7.39	C.2	X

C.1: Mandatory if (LMP 3/1) is supported, otherwise Optional.

C.2: Mandatory if (LMP 6/1) is supported, otherwise Optional.

C.3: Mandatory if (LMP 2/14 and 6/6) are supported, otherwise Optional.

C.4: Mandatory if (LMP 4/5) is supported, otherwise Optional.

C.5: Mandatory if (LMP 5/1) is supported, otherwise Optional.

C.7: Mandatory if (Core Spec 2.1 or later) is supported, otherwise Optional.

C.6: Mandatory if (Core Spec 2.1 or later) is supported, otherwise Excluded.

C.8: Optional if (Core Spec 3.0 or later) is supported, otherwise Excluded.

C.9: Optional if (Core Spec 2.1 or later) is supported, otherwise Excluded.

2.17 Testing

Table 17: Testing

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Read Loopback Mode Command	7.6.1	O	X
2	Write Loopback Mode Command	7.6.2	O	X
3	Enable Device Under Test Mode Command	7.6.3	O	X
4	Write Simple Pairing Debug Mode Command	7.6.4	C.1	X

C.1: Mandatory if (Core Spec 2.1 or later) is supported, otherwise Excluded.

Table 18: Connectionless Slave Broadcast

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Set Connectionless Slave Broadcast Command	7.1.49	C.1	X
2	Set Connectionless Slave Broadcast Receive Command	7.1.50	C.2	X
3	Start Synchronization Train Command	7.1.51	C.1	X
4	Receive Synchronization Train Command	7.1.52	C.2	X
5	Set Reserved LT_ADDR Command	7.3.86	C.1	X
6	Delete Reserved LT_ADDR Command	7.3.87	C.1	X
7	Set Connectionless Slave Broadcast Data Command	7.3.88	C.1	X
8	Write Synchronization Train Parameters Command	7.3.90	C.1	X
9	Read Synchronization Train Parameters Command	7.3.89	C.1	X
10	Synchronization Train Complete Event	7.7.67	C.1	X
11	Synchronization Train Received Event	7.7.68	C.2	X
12	Connectionless Slave Broadcast Receive Event	7.7.69	C.2	X
13	Connectionless Slave Broadcast Timeout Event	7.7.70	C.3	X
14	Connectionless Slave Broadcast Channel Map Change Event	7.7.73	C.1	X

C.1: Mandatory if (BB 3a/1) is supported, otherwise Excluded.

C.2: Mandatory if (BB 3a/2) is supported, otherwise Excluded.

C.3: Mandatory if (BB 3a/1 OR BB 3a/2) is supported, otherwise Excluded.

Link Layer
Vol 6, Part B

Controller States/Roles

Table 1: Controller States/Roles

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Advertising State	[1]: 4.4.2	C.1	X
2	Scanning State	[1]: 4.4.3	C.1	X
3	Initiating State	[1]: 4.4.4	C.1	X
4	Slave Role	[1]: 4.5.5	C.3	X
5	Master Role	[1]: 4.5.4	C.2	X

C.1: Mandatory if (1/1 or LL 1/2 or LL 1/3) is supported.

C.2 Mandatory if 1/3 is supported.

C.3: Optional if 1/1 is supported, otherwise Excluded.

Table 2: Device Addresses Types

Prerequisite: 1/1 or 1/2 or 1/3

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Public Address	[1]: 1.3	C.1	X
2	Random Address	[1]: 1.3	C.1	X

C.1: Mandatory if (2/1 or 2/2) is supported.

Note: Condition C.1 means that an observer device only does not need a device address, any other does but the type selection is not constrained.

Table 3: Protocol Advertising Features

Prerequisite: 1/1

(This section shall only be completed if 1/1 is supported)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Non-Connectable Undirected Events	[1]: 4.4.2.6	O	X
2	Connectable Undirected Events	[1]: 4.4.2.3	M	X
3	Advertising Data	[1]: 4.4.2.3, 4.4.2.5, 4.4.2.6	M	X
4	Connectable Directed Events	[1]: 4.4.2.4	O	X
5	Scannable Undirected Events	[1]: 4.4.2.5	O	X
6	Sending Scan Responses	[1]: 4.4.2.3, 4.4.2.5	M	X
7	Accepting Connection Requests	[1]: 4.4.2.3, 4.4.2.4	M	X
8	Filtering Policies	[1]: 4.3.2	O	X

Table 4: Protocol Scanning Features

Prerequisite: 1/2

(This section shall only be completed if 1/2 is supported)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Passive Scanning	[1]: 4.4.3.1	M	X
2	Receiving Advertising Data	[1]: 4.4.3.1, 4.4.3.2	M	X
3	Active Scanning	[1]: 4.4.3.2	M	X
4	Backoff Procedure	[1]: 4.4.3.2	M	X
5	Filtering Policies	[1]: 4.3.3	O	X

Table 5: Protocol Initiating Features

Prerequisite: 1/3

(This section shall only be completed if 1/3 is supported)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Requesting Connections	[1]: 4.4.4	M	X
2	Requesting to Directed Advertising	[1]: 4.4.4	M	X
3	Initiator Filtering	[1]: 4.3.4	M	X

Table 6: Protocol Slave Role Features

Prerequisite: 1/4

(This section shall only be completed if 1/4 is supported)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Slave Transmissions	[1]: 4.5.1, 4.5.5, 4.5.6	M	X
2	Acknowledgement Scheme	[1]: 4.5.9	M	X
3	Unknown Response	[1]: 5.1.4, 2.4.2	M	X
4	Responding in Feature Setup	[1]: 5.1.4	M	X
5	Sending Data	[1]: 4.5.1, 4.5.6	M	X
6	Receiving Data	[1]: 4.5.1, 4.5.6	M	X
7	More Data	[1]: 4.5.6	O	X
8	HCI Fragmentation	[2]: 5	O	X
9	LL Defragmentation	[2]: 5	O	X
10	Accepting Parameter Update	[1]: 5.1.1	M	X
11	Accepting Channel Map Update	[1]: 5.1.2	M	X
12	Encryption Start	[1]: 5.1.3	O	X
13	Connection Control Timer	[1]: 5.2	M	X
14	Sending Termination	[1]: 5.1.6	M	X
15	Accepting Termination	[1]: 5.1.6	M	X
16	Connection Supervision Timer	[1]: 4.5.2	M	X
17	(Intentionally left blank)			X
18	Slave Pause Encryption	[1]: 5.1.3	O	X
19	Slave Version Exchange	[1]: 5.1.5	M	X
20	Slave listens to multiple packets per connection event	4.5.7	O	X

LL 6/5 indicates whether a device in the slave role supports data output from a Host.

LL 6/6 indicates whether the device supports data input to a Host.

LL 6/9 expresses if a Controller may recombine LL packets into HCI data packets.

Carrying HCI fragmentation flags in LL packets is indicated by LL 6/8.

Table 7: Protocol Master Role Features

Prerequisite: 1/5

(This section shall only be completed if 1/5 is supported)

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Master Transmissions	[1]: 4.5.1, 4.5.4, 4.5.6	M	X
2	Acknowledgement Scheme	[1]: 4.5.9	M	X
3	Unknown Responses	[1]: 5.1.4, 2.4.2	M	X
4	Requesting Feature Setup	[1]: 5.1.4	M	X
5	Sending Data	[1]: 4.5.1, 4.5.6	M	X
6	Receiving Data	[1]: 4.5.1, 4.5.6	M	X
7	More Data	[1]: 4.5.6	O	X
8	HCI Fragmentation	[2]: 5	O	X
9	LL Defragmentation	[2]: 5	O	X
10	Requesting Parameter Update	[1]: 5.1.1	M	X
11	Requesting Channel Map Update	[1]: 5.1.2	M	X
12	Encryption Start	[1]: 5.1.3	O	X
13	Connection Control Timer	[1]: 5.2	M	X
14	Sending Termination	[1]: 5.1.6	M	X
15	Accepting Termination	[1]: 5.1.6	M	X
16	Connection Supervision Timer	[1]: 4.5.2	M	X
18	Master Non-Connectable Events	[1]: 4.4.2.6	O	X
19	Master Pause Encryption	[1]: 5.1.3	O	X
20	Master Version Exchange	[1]: 5.1.5	M	X

LL 7/5 indicates whether a device in the master role supports data output from a Host.

LL 7/6 indicates whether the device supports data input to a Host.

LL 7/18 indicates whether a device supports combining the advertising procedure to the master role.

Table 8: Physical Channels

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Support frequency band and 40 physical channels	[1]:1.4	M	X
2	Advertising channels (channel index 37, 38, 39)	[1]:1.4.1	M	X
3	Support Data channel selection algorithm	[1]: 4.5.8	C.1	X

C.1: Mandatory if (1/4 or 1/5) is supported, otherwise Excluded.

Table 9: Supported Features

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	LL Encryption	[1]: 4.6.1	C.1	X

C.1: Mandatory if (6/12 and 6/18) or (7/12 and 7/19) are supported.

RF PHY
Vol 6, Part A

Capability Statement

Table 1: Bluetooth LE RF Capabilities

Item	Capability	System Spec	Status	Support
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		Reference		[Yes] or [No]
1	LE Transmitter (Non-connectable, Broadcaster)	[2], 3	C.1	X
2	LE Receiver (Non-connectable, Observer)	[2], 4	C.1	X
3	LE Transceiver (Connectable, Peripheral/Central)	[2], 3, 4	C.1	X

C.1: At least one of the capabilities shall be supported.

Table 2: Bluetooth LE Test Interface Capabilities

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	HCI Test Interface	[3], 2	C.1	X
2	UART Test Interface	[3], 3	C.1	X

C.1: At least one of the capabilities shall be supported.

4.0 Host Controller Interface
Vol 3, Part E

HCI Conformance Declaration

Table 1: Generic Events

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Command Complete	7.7.14	M	X
1a	Support all HCI Commands	7.7	C.1	X
1d	Support all LE controller commands	3.3, 7.7	O	X
2	Command Status Event	7.7.15	M	X
3	Hardware Error Event	7.7.15	O	X

C.1: Mandatory if all HCI commands are supported, otherwise Excluded.

Table 1a: Roles

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
2	Host	1	O.1	X
4	LE Controller	1	O.1	X

O.1: It is mandatory to support at least one of the defined roles.

Table 2: Device Setup

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Reset Command	7.3.2	M	X

Table 3: Controller Flow Control

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
0	(Intentionally left blank)			X
1	Read Buffer Size Command	7.4.5	O	X
5	LE Read Buffer Size Command	7.8.2	M	X

Table 4: Controller Information

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]

1	Read Local Version Information Command	7.4.1	M	X
2	Read Local Supported Commands Command	7.4.2	M	X
3	Read Local Supported Features Command	7.4.3	M	X
5	Read BD_ADDR Command	7.4.6	M	X
8	LE Read Local Supported Features Command	7.8.3	M	X

Table 5: Controller Configuration

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
13	LE Set Random Address Command	7.8.5	C.1	X
14	LE Read White List Size Command	7.8.15	M	X
15	LE Add Device to White List Command	7.8.17	M	X
16	LE Clear White List Command	7.8.16	M	X
17	LE Remove Device From White List Command	7.8.18	M	X
18	Set MWS Channel Configuration	7.3.80	O	X
19	Set External Frame Configuration	7.3.81	O	X
20	Set MWS Signaling	7.3.82	O	X
21	Set MWS Transport Layer	7.3.83	O	X
22	Set MWS Scan Frequency Table	7.3.84	O	X
23	Set MWS PATTERN Configuration	7.3.85	O	X
24	Get MWS Transport Layer Configuration	7.5.11	O	X
25	Set Triggered Clock Capture Command	7.5.12	C.2	X
26	Triggered Clock Capture Event	7.7.66	C.3	X

C.1: Mandatory if (LL 1/1 or 1/3 or 4/3) is supported, otherwise Optional.

C.2: Optional if SUMICS 21/12 (CSA4) or later is supported, otherwise Excluded.

C.3: Mandatory if 5/25 is supported, otherwise Excluded.

Table 6: Device Discovery

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
15	LE Set Advertise Enable Command	7.8.10	C.4	X
16	LE Set Advertising Parameters Command	7.8.6	C.4	X
17	LE Set Scan Response Data Command	7.8.9	C.5	X
18	LE Set Advertising Data Command	7.8.8	C.7	X
19	LE Advertising Report Event	7.7.65.2	C.6	X
20	LE Set Scan Enable Command	7.8.12	C.6	X
21	LE Set Scan Parameters Command	7.8.11	C.6	X
22	LE Read Advertising Channel TX Power Command	7.8.7	C.4	X
23	Inquiry Response Notification Event	7.7.73	C.8	X

C.4: Mandatory if (LL 1/1) is supported, otherwise Optional.

C.5: Mandatory if (LL 3/2 or 3/5) is supported, otherwise Optional.

C.6: Mandatory if (LL 1/2) is supported, otherwise Optional.

C.7: Mandatory if (LL 3/3) is supported, otherwise Optional.

C.8: Optional if SUMICS 21/12 (CSA4) or later is supported, otherwise Excluded.

Table 7: Connection Setup

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
5	Disconnect Command	7.1.6	C.2	X
23	LE Create Connection Command	7.8.13	C.1	X
24	LE Create Connection Cancel Command	7.8.14	C.1	X
25	LE Connection Complete Event	7.7.65.1	C.2	X

26	Disconnection Complete Event	7.7.5	C.2	X
27	LE Connection Update Command	7.8.19	C.1	X
28	LE Connection Update Complete Event	7.7.65.3	C.2	X
29	Truncated Page Command	7.1.47	C.3	X
30	Truncated Page Cancel Command	7.1.48	C.3	X
31	Truncated Page Complete Event	7.7.71	C.3	X
32	Slave Page Response Timeout Event	7.7.72	C.4	X

C.1: Mandatory if (LL 3/3) is supported, otherwise Optional.

C.2: Mandatory if (LL 3/4 or 3/5) is supported, otherwise Optional.

C.3: Mandatory if BB 7/6 is supported, otherwise Excluded.

C.4: Mandatory if BB 7/7 is supported, otherwise Excluded.

Table 8: Remote Information

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
5	Read Remote Version Information Command	7.1.23	C.4	X
6	LE Read Remote Used Features Command	7.8.22	C.3	X
7	LE Read Remote Used Features Complete Event	7.7.65.4	C.3	X
8	Read Remote Version Information Complete Event	7.7.12	C.4	X

C.3: Mandatory if (LL 1/5) is supported, otherwise Optional.

C.4: Mandatory if (LL 1/4 or 1/5) is supported, otherwise Optional.

Table 13: Physical Links

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	(Intentionally left blank)			X
8	LE Set Host Channel Classification Command	7.8.19	C.5	X

C.5: Mandatory if (LL 1/5) is supported, otherwise Optional.

Table 14: Host Flow Control

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Host Buffer Size Command	7.3.39	O	X
2	Set Event Mask Command	7.3.1	M	X
4	Set Controller To Host Flow Control Command	7.3.38	O	X
5	Host Number Of Completed Packets Command	7.3.40	O	X
12	Number of Completed Packets Event	7.7.26	C.1	X
13	Data Buffer Overflow Event	7.7.26	O	X
14	LE Set Event Mask Command	7.8.1	M	X
15	Read LE Host Support Command	7.3.38	C.2	X
16	Write LE Host Support Command	7.3.39	C.2	X

C.1: Mandatory if (LL 1/4 OR LL 1/5) is supported otherwise Optional

C.2: Mandatory if 1a/1 (BR/EDR Controller) is supported, otherwise Excluded.

Table 15: Link Information

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
2	Read Transmit Power Level Command	7.3.35	C.4	X
4	Read RSSI Command	7.5.4	C.4	X
8	LE Read Channel Map Command	7.8.20	C.4	X

C.4: Mandatory if (LL 1/4 or 1/5) is supported, otherwise Optional.

Table 16: Authentication and Encryption

Item	Capability	System Spec	Status	Support
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		Reference		[Yes] or [No]
32	LE Encrypt Command	7.8.22	C.10	X
33	LE Rand Command	7.8.23	C.10	X
34	LE Long Term Key Requested Reply Command	7.8.25	C.10	X
35	LE Start Encryption Command	7.8.24	C.10	X
36	LE Long Term Key Requested Event	7.7.65.5	C.10	X
37	Encryption Change Event	7.7.8	C.10	X
38	Encryption Key Refresh Complete Event	7.7.39	C.10	X
39	LE Long Term Key Requested Negative Reply Command	7.8.26	C.10	X

C.10: Mandatory if (LL 9/1) is supported, otherwise Optional.

Table 17: Testing

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
7	LE Receiver Test Command	7.8.28	C.2	X
8	LE Transmitter Test Command	7.8.29	C.3	X
9	LE Test End Command	7.8.30	M	X

C.2: Mandatory if (LL 1/2 or 1/3 or 3/2 or 3/4 or 3/5) is supported, otherwise Optional.

C.3: Mandatory if (LL 1/1 or 1/3 or 4/3) is supported, otherwise Optional.

Table 18: Connectionless Slave Broadcast

Item	Capability	System Spec Reference	Status	Support [Yes] or [No]
1	Set Connectionless Slave Broadcast Command	7.1.49	C.1	X
2	Set Connectionless Slave Broadcast Receive Command	7.1.50	C.2	X
3	Start Synchronization Train Command	7.1.51	C.1	X
4	Receive Synchronization Train Command	7.1.52	C.2	X
5	Set Reserved LT_ADDR Command	7.3.86	C.1	X
6	Delete Reserved LT_ADDR Command	7.3.87	C.1	X
7	Set Connectionless Slave Broadcast Data Command	7.3.88	C.1	X
8	Write Synchronization Train Parameters Command	7.3.90	C.1	X
9	Read Synchronization Train Parameters Command	7.3.89	C.1	X
10	Synchronization Train Complete Event	7.7.67	C.1	X
11	Synchronization Train Received Event	7.7.68	C.2	X
12	Connectionless Slave Broadcast Receive Event	7.7.69	C.2	X
13	Connectionless Slave Broadcast Timeout Event	7.7.70	C.3	X
14	Connectionless Slave Broadcast Channel Map Change Event	7.7.73	C.1	X

C.1: Mandatory if (BB 3a/1) is supported, otherwise Excluded.

C.2: Mandatory if (BB 3a/2) is supported, otherwise Excluded.

C.3: Mandatory if (BB 3a/1 OR BB 3a/2) is supported, otherwise Excluded.

Profile PICS Information

No PROFILE PICS details could be found.